

LED Indoor Product Catalogue





Bright Smart Future

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LED Agritech

Tungsram is shaping the future of urban living providing technology-driven, smart, sustainable solutions for large metropolitan areas using lighting as a platform.

LED there be light

The future will be lit by LED. Traditional lighting solutions are set to be fully replaced by LEDs and our aim at Tungsram is to smooth the transition for our customers. Our colleagues have been dedicating their efforts and expertise to the development and installation of LED technologies for nearly two decades. Our retrofit and retrofittype indoor and outdoor product families make it possible for our clients to enjoy the advantages of this new technology without extra investment. From future-proof modular solutions to innovative new formats, we deliver high quality LED indoor and outdoor solutions at an affordable price. The latest LED lighting solutions provide an ideal upgrade path for public bodies looking to reduce energy costs and environmental impact while attaining striking aesthetic improvements to landscapes and cityscapes.



Tungsram, an iconic name, returned to the global market in 2018 as a premium innovative European technology brand following the acquisition of GE Lighting's general lighting business in Europe, Middle East, Africa and Turkey as well as GE's global automotive operation.

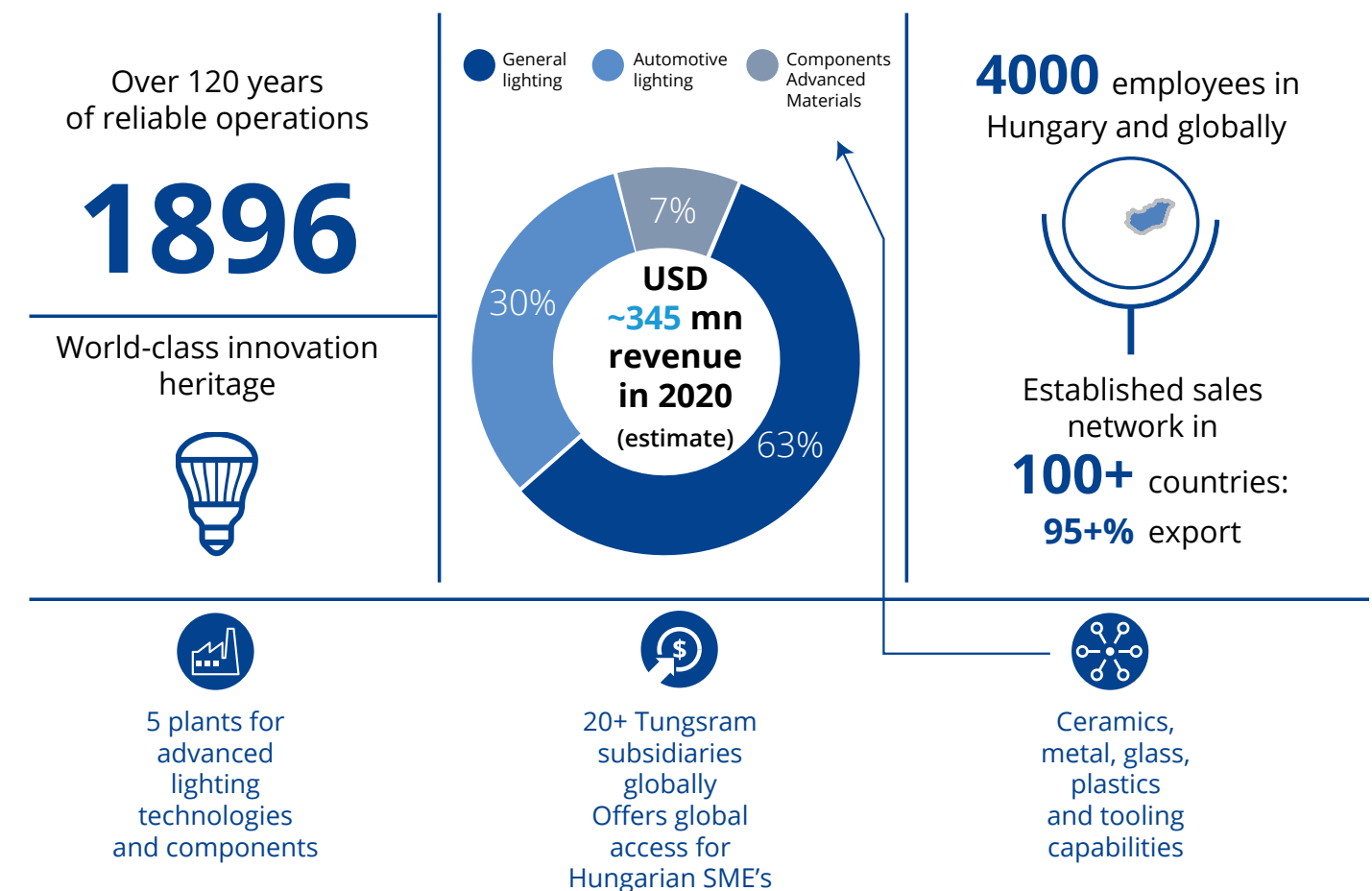
Innovation is our heritage. Originally established in 1896, the company is a brainchild of the 2nd industrial revolution that gave rise to the electrification of the world. From its earliest beginnings through GE's acquisition of the brand in 1989 and to the present day, Tungsram has systematically created new solutions, primarily around its core lighting and telephone technology businesses, as well as medical and radio tubes and television, often leading to exponential sales growth. Today,

faced with the opportunities and challenges of the 4th industrial revolution, Tungsram Group invests into future-safe technologies and dynamically growing global market segments such as smart solutions, smart cities and indoor farming while still strengthening its core lighting business. Every member of the Tungsram team works to create affordable, sustainable technology-based solutions for the continuously urbanizing world with the strategic goal of eventually creating happiness. A smart, bright future - see how we are seeing it.



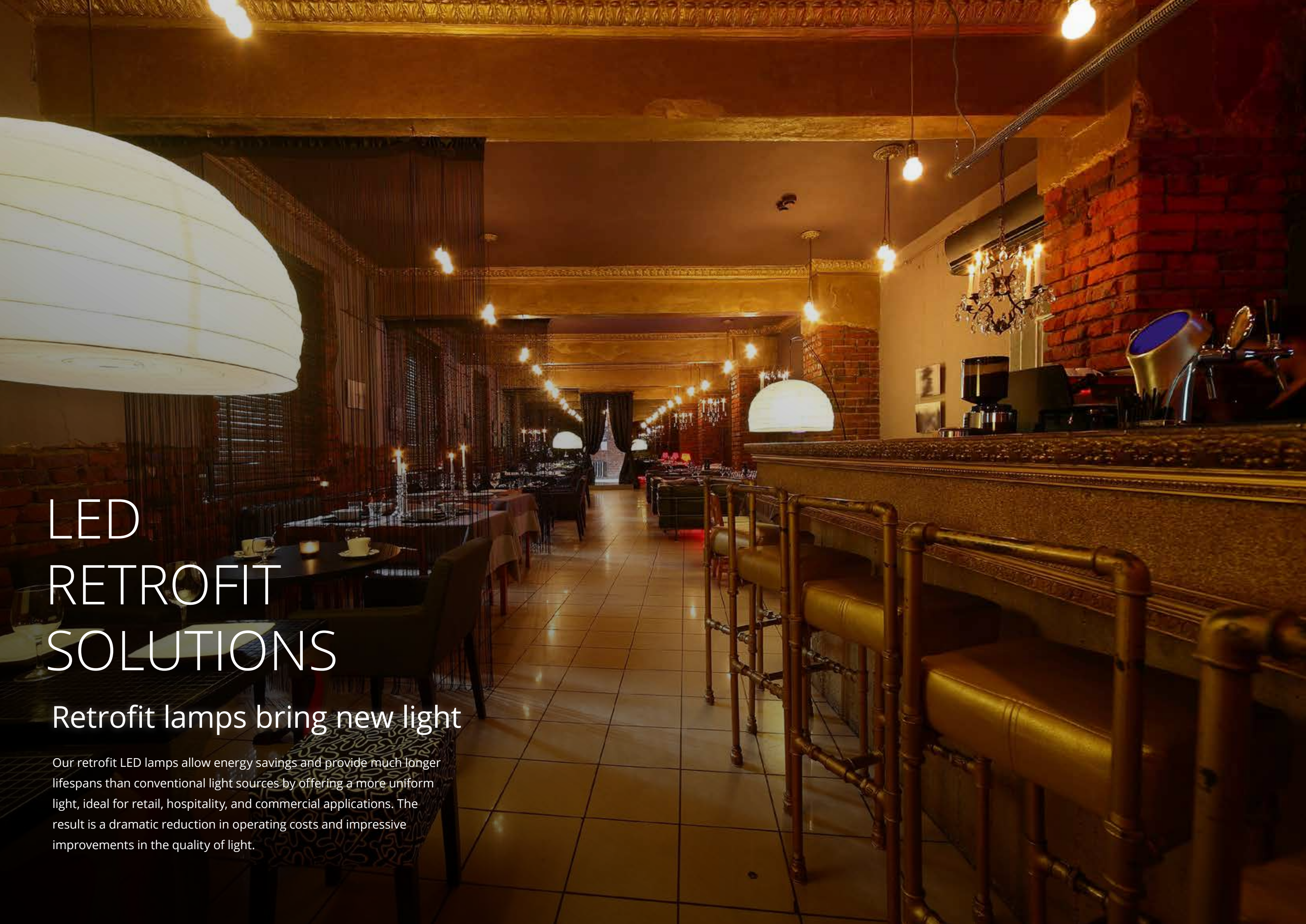
Jörg Bauer
Chairman-CEO

Tungsram has a 120-year-long track record and unique assets and capabilities



Our vision for a brighter tomorrow

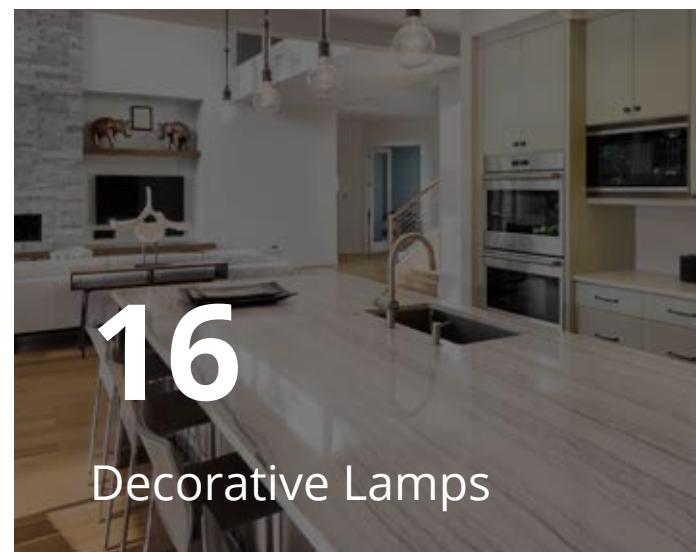
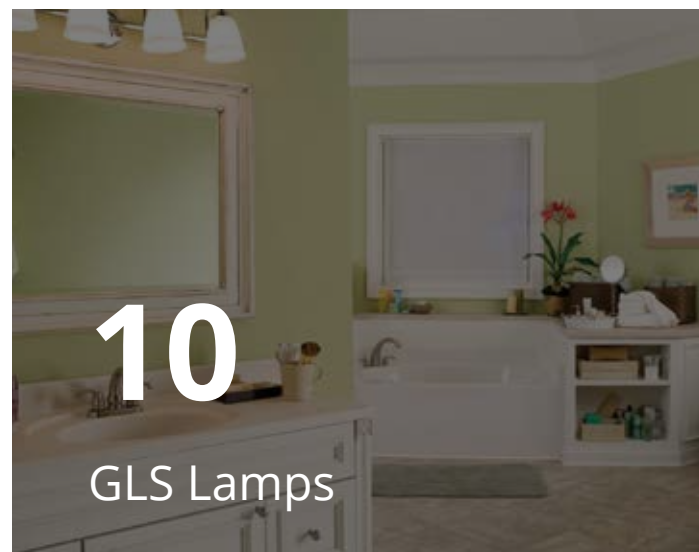
Powered by a lighting-industry track record spanning more than 120 years, Tungsram has consciously developed new solutions in its core area of lighting technology since its foundation in 1896. We compete on the world market as a premium European brand, which designs, develops and manufactures products for the needs of today and tomorrow. The lighting product portfolio covers all areas of indoor and outdoor lighting, from private homes to schools, public and office buildings, gas stations, sports arenas, highways and car parks. We offer a comprehensive range of light sources from traditional technologies such as HID, LFL, CFL, Halogen and specialty lamps both for indoor and outdoor installation. From traditional technologies to state-of-the-art LED products, we incorporate energy optimization and system intelligence into our portfolio.



LED RETROFIT SOLUTIONS

Retrofit lamps bring new light

Our retrofit LED lamps allow energy savings and provide much longer lifespans than conventional light sources by offering a more uniform light, ideal for retail, hospitality, and commercial applications. The result is a dramatic reduction in operating costs and impressive improvements in the quality of light.



LED RETROFIT SOLUTIONS

GLS



ECO Snowcone

Cap: E27, B22
Wattage: 6W, 9W, 11.5W, 13.5W
Voltage: 220 - 240V
Rated life: 10 000 h



DimStik

Cap: E27, B22
Wattage: 9W, 14W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Filament Dimmable (Clear, frosted)

Cap: E27, B22
Wattage: 4.9W, 8W, 10.5W, 13W
Voltage: 220-240V
Rated life: 20 000 h



LED Stik

Cap: E27, B22
Wattage: 6W, 9W, 12W, 15W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Filament GLS A60 (Clear, frosted)

Cap: E27, B22
Wattage: 4.5W, 7W, 8.5W, 10W
Voltage: 220 - 240V
Rated life: 15 000 h



LED RETROFIT SOLUTIONS

GLS Lamps



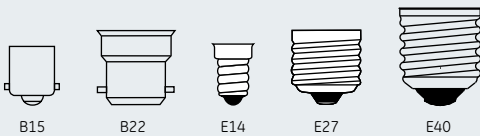
Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
Start - ECO Snowcone															
6	40	B22	LED ECO A60 6W 827 B22	93104728	470	2700	160	220-240	80	10k	A+	60	107	6.00	12
6	40	E27	LED ECO A60 6W 827 E27	93104784	470	2700	160	220-240	80	10k	A+	60	109	6.00	12
6	40	B22	LED ECO A60 6W 840 B22	93107032	500	4000	160	220-240	80	10k	A+	60	107	6.00	12
6	40	E27	LED ECO A60 6W 840 E27	93107035	500	4000	160	220-240	80	10k	A+	60	109	6.00	12
6	40	B22	LED ECO A60 6W 865 B22	93104730	500	6500	160	220-240	80	10k	A+	60	107	6.00	12
6	40	E27	LED ECO A60 6W 865 E27	93104786	500	6500	160	220-240	80	10k	A+	60	109	6.00	12
9	60	B22	LED ECO A60 9W 827 B22	93104732	810	2700	160	220-240	80	10k	A+	60	107	9.00	12
9	60	E27	LED ECO A60 9W 827 E27	93104788	810	2700	160	220-240	80	10k	A+	60	109	9.00	12
9	60	B22	LED ECO A60 9W 840 B22	93107044	850	4000	160	220-240	80	10k	A+	60	107	9.00	12
9	60	E27	LED ECO A60 9W 840 E27	93107047	850	4000	160	220-240	80	10k	A+	60	109	9.00	12
9	60	B22	LED ECO A60 9W 865 B22	93104734	850	6500	160	220-240	80	10k	A+	60	107	9.00	12
9	60	E27	LED ECO A60 9W 865 E27	93104790	850	6500	160	220-240	80	10k	A+	60	109	9.00	12
11.5	75	B22	LED ECO A60 11.5W 827 B22	93104776	1 055	2700	160	220-240	80	10k	A+	60	107	11.50	12
11.5	75	E27	LED ECO A60 11.5W 827 E27	93104792	1 055	2700	160	220-240	80	10k	A+	60	109	11.50	12
11.5	75	B22	LED ECO A60 11.5W 840 B22	93106280	1 150	4000	160	220-240	80	10k	A+	60	107	11.50	12
11.5	75	E27	LED ECO A60 11.5W 840 E27	93106283	1 150	4000	160	220-240	80	10k	A+	60	109	11.50	12
11.5	80	B22	LED ECO A60 11.5W 865 B22	93104778	1 150	6500	160	220-240	80	10k	A+	60	107	11.50	12
11.5	80	E27	LED ECO A60 11.5W 865 E27	93104794	1 150	6500	160	220-240	80	10k	A+	60	109	11.50	12
13.5	100	B22	LED ECO A60 13.5W 827 B22	93104780	1 521	2700	160	220-240	80	10k	A+	60	107	13.50	12
13.5	100	E27	LED ECO A60 13.5W 827 E27	93104796	1 521	2700	160	220-240	80	10k	A+	60	109	13.50	12
13.5	100	B22	LED ECO A60 13.5W 840 B22	93107021	1 600	4000	160	220-240	80	10k	A++	60	107	13.50	12
13.5	100	E27	LED ECO A60 13.5W 840 E27	93107024	1 600	4000	160	220-240	80	10k	A++	60	109	13.50	12
13.5	100	B22	LED ECO A60 13.5W 865 B22	93104782	1 600	6500	160	220-240	80	10k	A++	60	107	13.50	12
13.5	100	E27	LED ECO A60 13.5W 865 E27	93104798	1 600	6500	160	220-240	80	10k	A++	60	109	13.50	12

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PRODUCT DESCRIPTION

LED ECO	A60	6W	827	B22
T	T	T	T	T
Identifies the Product type	Identifies the Bulb shape	Wattages	CCT	Identifies the cap type

CAP / BASE



1



Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
LED Stik															
Single pack															
6	40	B22	LED 6/STIK/830/220-240V/B22	93095930	470	3000	240	220-240	80	15k	A+	38	113.5	6.00	15
6	40	E27	LED 6/STIK/830/220-240V/E27	93064050	470	3000	240	220-240	80	15k	A+	38	115.5	6.00	15
6	42	B22	LED 6/STIK/840/220-240V/B22	93110204	500	4000	240	220-240	80	15k	A+	38	113.5	6.00	15
6	42	E27	LED 6/STIK/840/220-240V/E27	93110184	500	4000	240	220-240	80	15k	A+	38	115.5	6.00	15
6	42	B22	LED 6/STIK/865/220-240V/B22	93095931	500	6500	240	220-240	80	15k	A+	38	113.5	6.00	15
6	44	E27	LED 6/STIK/865/220-240V/E27	93064051	500	6500	240	220-240	80	15k	A+	38	115.5	9.00	15
9	60	B22	LED 9/STIK/830/220-240V/B22	93095932	810	3000	240	220-240	80	15k	A+	38	113.5	9.00	15
9	60	E27	LED 9/STIK/830/220-240V/E27	93064052	810	3000	240	220-240	80	15k	A+	38	115.5	9.00	15
9	63	B22	LED 9/STIK/840/220-240V/B22	93110205	850	4000	240	220-240	80	15k	A+	38	113.5	9.00	15
9	63	E27	LED 9/STIK/840/220-240V/E27	93110185	850	4000	240	220-240	80	15k	A+	38	115.5	9.00	15
9	63	B22	LED 9/STIK/865/220-240V/B22	93095933	850	6500	240	220-240	80	15k	A+	38	113.5	9.00	15
9	63	E27	LED 9/STIK/865/220-240V/E27	93064053	850	6500	240	220-240	80	15k	A+	38	115.5	12.00	15
12	75	B22	LED12/STIK/830/220-240V/B22	93095934	1 055	3000	240	220-240	80	15k	A+	45	135.5	12.00	15
12	75	E27	LED12/STIK/830/220-240V/E27	93064054	1 055	3000	240	220-240	80	15k	A+	45	137.5	12.00	15
12	80	B22	LED12/STIK/840/220-240V/B22	93110206	1 150	4000	240	220-240	80	15k	A+	45	135.5	12.00	15
12	80	E27	LED12/STIK/840/220-240V/E27	93110186	1 150	4000	240	220-240	80	15k	A+	45	137.5	12.00	15
12	80	B22	LED12/STIK/865/220-240V/B22	93095935	1 150	6500	240	220-240	80	15k	A+	45	135.5	12.00	15
12	80	E27	LED12/STIK/865/220-240V/E27	93064055	1 150	6500	240	220-240	80	15k	A+	45	137.5	15.00	15
15	100	B22	LED15/STIK/830/220-240V/B22	93096456	1 521	3000	240	220-240	80	15k	A+	45	135.5	15.00	15
15	100	E27	LED15/STIK/830/220-240V/E27	93064056	1 521	3000	240	220-240	80	15k	A+	45	137.5	15.00	15
15	104	B22	LED15/STIK/840/220-240V/B22	93110207	1 600	4000	240	220-240	80	15k	A+	45	135.5	15.00	15
15	104	E27	LED15/STIK/840/220-240V/E27	93110187	1 600	4000	240	220-240	80	15k	A+	45	137.5	15.00	15
15	104	B22	LED15/STIK/865/220-240V/B22	93096457	1 600	6500	240	220-240	80	15k	A+	45	135.5	15.00	15
15	104	E27	LED15/STIK/865/220-240V/E27	93064057	1 600	6500	240	220-240	80	15k	A+	45	137.5	15.00	15
Multi-pack															
6	40	E27	LED 6/STIK/830/220-240V/E27/F 3/15	93110192	470	3000	240	220-240	80	15k	A+	38	115.5	6.00	15
6	42	E27	LED 6/STIK/840/220-240V/E27/F 3/15	93110193	500	4000	240	220-240	80	15k	A+	38	115.5	6.00	15
6	44	E27	LED 6/STIK/865/220-240V/E27/F 3/15	93110194	500	6500	240	220-240	80	15k	A+	38	115.5	6.00	15
9	60	B22	LED 9/STIK/830/220-240/B22/F 3/15	93110191	810	3000	240	220-240	80	15k	A+	38	113.5	9.00	15
9	60	E27	LED 9/STIK/830/220-240/E27/F 3/15	93110189	810	3000	240	220-240	80	15k	A+	38	115.5	9.00	15
9	63	E27	LED 9/STIK/840/220-240/E27/F 3/15	93110190	850	4000	240	220-240	80	15k	A+	38	115.5	9.00	15
9	60	E27	LED 9/STIK/865/220-240V/E27/F 3/15	93110195	850	6500	240	220-240	80	15k	A+	38	115.5	9.00	15
12	75	E27	LED12/STIK/830/220-240V/E27/F 2/10	93110196	1 055	3000	240	220-240	80	15k	A+	45	137.5	12.00	10
12	80	E27	LED12/STIK/840/220-240V/E27/F 2/10	93110197	1 150	4000	240	220-240	80	15k	A+	45	137.5	12.00	10
12	80	E27	LED12/STIK/865/220-240V/E27/F 2/10	93110198	1 150	6500	240	220-240	80	15k	A+	45	137.5	12.00	10
15	100	E27	LED15/STIK/830/220-240V/E27/F 2/10	93110199	1 521	3000	240	220-240	80	15k	A+	45	137.5	15.00	10
15	104	E27	LED15/STIK/840/220-240V/E27/F 2/10	93110200	1 600	4000	240	220-240	80	15k	A+	45	137.5	15.00	10
15	104	E27	LED15/STIK/865/220-240V/E27/F 2/10	93110201	1 600	6500	240	220-240	80	15k	A+	45	137.5	15.00	10

2



LED RETROFIT SOLUTIONS

GLS Lamps



LED Retrofit

	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
LED Filament - GLS A60 Clear and Frosted																
1	4.5	40	B22	LED Fil A60 4.5W 827 B22 CL	93115476	470	2700	300	220-240	80	15k	A++	60	102	4.50	10
3	4.5	40	B22	LED Fil A60 4.5W 827 B22 FR	93115478	470	2700	300	220-240	80	15k	A++	60	102	4.50	10
1	4.5	40	E27	LED Fil A60 4.5W 827 E27 CL	93115395	470	2700	300	220-240	80	15k	A++	60	104	4.50	10
	4.5	40	E27	LED Fil A60 4.5W 827 E27 FR	93115477	470	2700	300	220-240	80	15k	A++	60	104	4.50	10
3	4.5	40	B22	LED Fil A60 4.5W 840 B22 FR	93115480	470	4000	300	220-240	80	15k	A++	60	102	4.50	10
	4.5	40	E27	LED Fil A60 4.5W 840 E27 FR	93115479	470	4000	300	220-240	80	15k	A++	60	104	4.50	10
1	7	60	B22	LED Fil A60 7W 827 B22 CL	93115482	806	2700	300	220-240	80	15k	A++	60	102	7.00	10
3	7	60	B22	LED Fil A60 7W 827 B22 FR	93115484	806	2700	300	220-240	80	15k	A++	60	102	7.00	10
1	7	60	E27	LED Fil A60 7W 827 E27 CL	93115481	806	2700	300	220-240	80	15k	A++	60	104	7.00	10
	7	60	E27	LED Fil A60 7W 827 E27 FR	93115483	806	2700	300	220-240	80	15k	A++	60	104	7.00	10
	7	60	B22	LED Fil A60 7W 840 B22 FR	93115486	806	4000	300	220-240	80	15k	A++	60	102	7.00	10
3	7	60	E27	LED Fil A60 7W 840 E27 FR	93115485	806	4000	300	220-240	80	15k	A++	60	104	7.00	10
	7	60	B22	LED Fil A60 7W 865 B22 FR	93115488	806	6500	300	220-240	80	15k	A++	60	102	7.00	10
	7	60	E27	LED Fil A60 7W 865 E27 FR	93115487	806	6500	300	220-240	80	15k	A++	60	104	7.00	10
2	8.5	75	E27	LED Fil A60 8.5W 827 E27 CL	93115938	1 055	2700	300	220-240	80	15k	A++	60	104	8.50	10
	8.5	75	B22	LED Fil A60 8.5W 827 B22 CL	93115939	1 055	2700	300	220-240	80	15k	A++	60	102	8.50	10
	8.5	75	E27	LED Fil A60 8.5W 827 E27 FR	93115940	1 055	2700	300	220-240	80	15k	A++	60	104	8.50	10
3	8.5	75	B22	LED Fil A60 8.5W 827 B22 FR	93115941	1 055	2700	300	220-240	80	15k	A++	60	102	8.50	10
	8.5	75	E27	LED Fil A60 8.5W 840 E27 FR	93115942	1 055	4000	300	220-240	80	15k	A++	60	104	8.50	10
	8.5	75	B22	LED Fil A60 8.5W 840 B22 FR	93115943	1 055	4000	300	220-240	80	15k	A++	60	102	8.50	10
2	10	91	E27	LED Fil A60 10W 827 E27 CL	93115944	1 350	2700	300	220-240	80	15k	A++	60	104	10.00	10
	10	91	B22	LED Fil A60 10W 827 B22 CL	93115945	1 350	2700	300	220-240	80	15k	A++	60	102	10.00	10
	10	91	E27	LED Fil A60 10W 827 E27 FR	93115946	1 350	2700	300	220-240	80	15k	A++	60	104	10.00	10
	10	91	B22	LED Fil A60 10W 827 B22 FR	93115947	1 350	2700	300	220-240	80	15k	A++	60	102	10.00	10
3	10	96	E27	LED Fil A60 10W 840 E27 FR	93115948	1 450	4000	300	220-240	80	15k	A++	60	104	10.00	10
	10	96	B22	LED Fil A60 10W 840 B22 FR	93115949	1 450	4000	300	220-240	80	15k	A++	60	102	10.00	10
	10	96	E27	LED Fil A60 10W 865 E27 FR	93115950	1 450	6500	300	220-240	80	15k	A++	60	104	10.00	10
	10	96	B22	LED Fil A60 10W 865 B22 FR	93115951	1 450	6500	300	220-240	80	15k	A++	60	102	10.00	10



	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
LED Stik - Dimmable																
	9	60	B22	LED DimSTIK 9(60) 830 B22	93104350	806	3000	240	220-240	80	15k	A+	38	114	9.00	15
	9	60	E27	LED DimSTIK 9(60) 830 E27	93104352	806	3000	240	220-240	80	15k	A+	38	116	9.00	15
	9	60	B22	LED DimSTIK 9(60)840 B22	93104354	806	4000	240	220-240	80	15k	A+	38	114	9.00	15
	9	60	E27	LED DimSTIK 9(60)840 E27	93104356	806	4000	240	220-240	80	15k	A+	38	116	9.00	15
	9	60	B22	LED DimSTIK 9(60)865 B22	93104358	806	6500	240	220-240	80	15k	A+	38	114	9.00	15
4	9	60	E27	LED DimSTIK 9(60)865 E27	93104360	806	6500	240	220-240	80	15k	A+	38	116	9.00	15
	14	100	B22	LED DimSTIK 14(100)830 B22	93104208	1 521	3000	240	220-240	80	15k	A+	45	136	14.00	15
	14	100	E27	LED DimSTIK 14(100)830 E27	93104210	1 521	3000	240	220-240	80	15k	A+	45	138	14.00	15
	14	100	B22	LED DimSTIK 14(100)840 B22	93104212	1 521	4000	240	220-240	80	15k	A+	45	136	14.00	15
	14	100	E27	LED DimSTIK 14(100)840 E27	93104214	1 521	4000	240	220-240	80	15k	A+	45	138	14.00	15
	14	100	B22	LED DimSTIK 14(100)865 B22	93104346	1 521	6500	240	220-240	80	15k	A+	45	136	14.00	15
	14	100	E27	LED DimSTIK 14(100)865 E27	93104348	1 521	6500	240	220-240	80	15k	A+	45	138	14.00	15
LED Filament Dimmable - GLS A60 Clear and Frosted																
5	4,9	40	E27	LED Fil Dim A60 4.9W 927 E27 CL TU	93119378	470	2700	320	220-240	>90	20k	A+	60	104	5	10
8	4,9	40	B22	LED Fil Dim A60 4.9W 927 B22 CL TU	93119379	470	2700	320	220-240	>90	20k	A+	60	103	5	10
10	4,9	40	E27	LED Fil Dim A60 4.9W 927 E27 FR TU	93119380	470	2700	320	220-240	>90	20k	A+	60	104	5	10
12	4,9	40	B22	LED Fil Dim A60 4.9W 927 B22 FR TU	93119381	470	2700	320	220-240	>90	20k	A+	60	103	5	10
6	8	60	E27	LED Fil Dim A60 8W 927 E27 CL TU	93119382	810	2700	320	220-240	>90	20k	A+	60	104	8	10
9	8	60	B22	LED Fil Dim A60 8W 927 B22 CL TU	93119383	810	2700	320	220-240	>90	20k	A+	60	103	8	10
10	8	60	E27	LED Fil Dim A60 8W 927 E27 FR TU	93119384	810	2700	320	220-240	>90	20k	A+	60	104	8	10
12	8	60	B22	LED Fil Dim A60 8W 927 B22 FR TU	93119385	810	2700	320	220-240	>90	20k	A+	60	103	8	10
6	10,5	75	E27	LED Fil Dim A60 10.5W 927 E27 CL TU	93119396	1055	2700	320	220-240	>90	20k	A+	60	104	11	10
9	10,5	75	B22	LED Fil Dim A60 10.5W 927 B22 CL TU	93119397	1055	2700	320	220-240	>90	20k	A+	60	103	11	10
10	10,5	75	E27	LED Fil Dim A60 10.5W 927 E27 FR TU	93119398	1055	2700	320	220-240	>90	20k	A+	60	104	11	10
12	10,5	75	B22	LED Fil Dim A60 10.5W 927 B22 FR TU	93119399	1055	2700	320	220-240	>90	20k	A+	60	103	11	10
7	13	100	E27	LED Fil Dim A60 13W 927 E27 CL TU	93119400	1521	2700	320	220-240	>90	20k	A+	60	104	13	10
9	13	100	B22	LED Fil Dim A60 13W 927 B22 CL TU	93119401	1521	2700	320	220-240	>90	20k	A+	60	103	13	10
11	13	100	E27	LED Fil Dim A66 13W 927 E27 FR TU	93119402	1521	2700	320	220-240	>90	20k	A+	66	120	13	10
13	13	100	B22	LED Fil Dim A66 13W 927 B22 FR TU	93119403	1521	2700	320	220-240	>90	20k	A+	66	119	13	10



LED RETROFIT SOLUTIONS

Decorative



LED Spherical (Clear, frosted)

Cap: E27, B22, E14, B15
Wattage: 2.5W, 4.5W, 7W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Warm Dimming Deco Golf

Cap: E14, E27, B15, B22
Wattage: 5W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Candle (Clear, frosted)

Cap: E27, B22, E14, B15
Wattage: 2.5W, 4.5W, 7W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Warm Dimming Deco Candle

Cap: E14, E27, B15, B22
Wattage: 5W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Stik - E14

Cap: E14
Wattage: 7W
Voltage: 100 - 240V
Rated life: 10 000 h



LED Filament Globe G95, G120

Cap: E27, B22
Wattage: 4.5W, 7W, 8.5W, 10W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Filament ST64

Cap: E27, B22
Wattage: 4.5W, 7W, 8.5W, 10W
Voltage: 220 - 240V
Rated life: 15 000 h



LED RETROFIT SOLUTIONS

Decorative Lamps



LED Retrofit

	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Energy Consumption (kWh/1000h)	Length (mm)	Pack Qty
LED Filament - Spherical Clear and Frosted																
1	2.5	25	B22	LED Fil Golf 2.5W 827 B22 CL TU	93115544	250	2700	300	220-240	80	15k	A++	45	2.50	77	10
3	2.5	25	B22	LED Fil Golf 2.5W 827 B22 FR TU	93115547	250	2700	300	220-240	80	15k	A++	45	2.50	77	10
1	2.5	25	E14	LED Fil Golf 2.5W 827 E14 CL TU	93115542	250	2700	300	220-240	80	15k	A++	45	2.50	79	10
3	2.5	25	E14	LED Fil Golf 2.5W 827 E14 FR TU	93115545	250	2700	300	220-240	80	15k	A++	45	2.50	79	10
1	2.5	25	E27	LED Fil Golf 2.5W 827 E27 CL TU	93115543	250	2700	300	220-240	80	15k	A++	45	2.50	79	10
3	2.5	25	E27	LED Fil Golf 2.5W 827 E27 FR TU	93115546	250	2700	300	220-240	80	15k	A++	45	2.50	79	10
1	2.5	25	B15	LED Fil Golf 2.5W 827 B15 CL TU	93115983	250	2700	300	220-240	80	15k	A++	45	2.50	78	10
	2.5	25	B15	LED Fil Golf 2.5W 827 B15 FR TU	93115984	250	2700	300	220-240	80	15k	A++	45	2.50	78	10
	2.5	25	B22	LED Fil Golf 2.5W 840 B22 FR TU	93115550	250	4000	300	220-240	80	15k	A++	45	2.50	77	10
	2.5	25	E14	LED Fil Golf 2.5W 840 E14 FR TU	93115548	250	4000	300	220-240	80	15k	A++	45	2.50	79	10
	2.5	25	E27	LED Fil Golf 2.5W 840 E27 FR TU	93115549	250	4000	300	220-240	80	15k	A++	45	2.50	79	10
3	2.5	25	B15	LED Fil Golf 2.5W 840 B15 FR TU	93115985	250	4000	300	220-240	80	15k	A++	45	2.50	78	10
	2.5	25	B22	LED Fil Golf 2.5W 865 B22 FR TU	93115553	250	6500	300	220-240	80	15k	A++	45	2.50	77	10
	2.5	25	E14	LED Fil Golf 2.5W 865 E14 FR TU	93115551	250	6500	300	220-240	80	15k	A++	45	2.50	79	10
	2.5	25	E27	LED Fil Golf 2.5W 865 E27 FR TU	93115552	250	6500	300	220-240	80	15k	A++	45	2.50	79	10
	2.5	25	B15	LED Fil Golf 2.5W 865 B15 FR TU	93115986	250	6500	300	220-240	80	15k	A++	45	2.50	78	10
2	4.5	40	B22	LED Fil Golf 4.5W 827 B22 CL TU	93115556	470	2700	300	220-240	80	15k	A++	45	4.50	77	10
3	4.5	40	B22	LED Fil Golf 4.5W 827 B22 FR TU	93115559	470	2700	300	220-240	80	15k	A++	45	4.50	77	10
2	4.5	40	E14	LED Fil Golf 4.5W 827 E14 CL TU	93115554	470	2700	300	220-240	80	15k	A++	45	4.50	79	10
3	4.5	40	E14	LED Fil Golf 4.5W 827 E14 FR TU	93115557	470	2700	300	220-240	80	15k	A++	45	4.50	79	10
2	4.5	40	E27	LED Fil Golf 4.5W 827 E27 CL TU	93115555	470	2700	300	220-240	80	15k	A++	45	4.50	79	10
3	4.5	40	E27	LED Fil Golf 4.5W 827 E27 FR TU	93115558	470	2700	300	220-240	80	15k	A++	45	4.50	79	10
2	4.5	40	B15	LED Fil Golf 4.5W 827 B15 CL TU	93115987	470	2700	300	220-240	80	15k	A++	45	4.50	78	10
	4.5	40	B15	LED Fil Golf 4.5W 827 B15 FR TU	93115988	470	2700	300	220-240	80	15k	A++	45	4.50	78	10
	4.5	40	B22	LED Fil Golf 4.5W 840 B22 FR TU	93115562	470	4000	300	220-240	80	15k	A++	45	4.50	77	10
	4.5	40	E14	LED Fil Golf 4.5W 840 E14 FR TU	93115560	470	4000	300	220-240	80	15k	A++	45	4.50	79	10
	4.5	40	E27	LED Fil Golf 4.5W 840 E27 FR TU	93115561	470	4000	300	220-240	80	15k	A++	45	4.50	79	10
3	4.5	40	B15	LED Fil Golf 4.5W 840 B15 FR TU	93115989	470	4000	300	220-240	80	15k	A++	45	4.50	78	10
	4.5	40	B22	LED Fil Golf 4.5W 865 B22 FR TU	93115565	470	6500	300	220-240	80	15k	A++	45	4.50	77	10
	4.5	40	E14	LED Fil Golf 4.5W 865 E14 FR TU	93115563	470	6500	300	220-240	80	15k	A++	45	4.50	79	10
	4.5	40	E27	LED Fil Golf 4.5W 865 E27 FR TU	93115564	470	6500	300	220-240	80	15k	A++	45	4.50	79	10
	4.5	40	B15	LED Fil Golf 4.5W 865 B15 FR TU	93115990	470	6500	300	220-240	80	15k	A++	45	4.50	78	10
2	7	60	B22	LED Fil Golf 7W 827 B22 CL TU	93115568	806	2700	300	220-240	80	15k	A++	45	7.00	77	10
3	7	60	B22	LED Fil Golf 7W 827 B22 FR TU	93115571	806	2700	300	220-240	80	15k	A++	45	7.00	77	10
2	7	60	E14	LED Fil Golf 7W 827 E14 CL TU	93115566	806	2700	300	220-240	80	15k	A++	45	7.00	79	10
3	7	60	E14	LED Fil Golf 7W 827 E14 FR TU	93115569	806	2700	300	220-240	80	15k	A++	45	7.00	79	10
2	7	60	E27	LED Fil Golf 7W 827 E27 CL TU	93115567	806	2700	300	220-240	80	15k	A++	45	7.00	79	10
3	7	60	E27	LED Fil Golf 7W 827 E27 FR TU	93115570	806	2700	300	220-240	80	15k	A++	45	7.00	79	10
2	7	60	B15	LED Fil Golf 7W 827 B15 CL TU	93115991	806	2700	300	220-240	80	15k	A++	45	7.00	78	10
	7	60	B15	LED Fil Golf 7W 827 B15 FR TU	93115992	806	2700	300	220-240	80	15k	A++	45	7.00	78	10
3	7	60	B22	LED Fil Golf 7W 840 B22 FR TU	93115574	806	4000	300	220-240	80	15k	A++	45	7.00	77	10
	7	60	E14	LED Fil Golf 7W 840 E14 FR TU	93115572	806	4000	300	220-240	80	15k	A++	45	7.00	79	10
	7	60	E27	LED Fil Golf 7W 840 E27 FR TU	93115573	806	4000	300	220-240	80	15k	A++	45	7.00	79	10
	7	60	B15	LED Fil Golf 7W 840 B15 FR TU	93115993	806	4000	300	220-240	80	15k	A++	45	7.00	78	10



	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
LED Filament - Candle Clear and Frosted																
4	2.5	25	B22	LED Fil Candle 2.5W 827 B22 CL	93115511	250	2700	300	220-240	80	15k	A++	35	93	2.50	10
6	2.5	25	B22	LED Fil Candle 2.5W 827 B22 FR	93115514	250	2700	300	220-240	80	15k	A++	35	93	2.50	10
4	2.5	25	E14	LED Fil Candle 2.5W 827 E14 CL	93115509	250	2700	300	220-240	80	15k	A++	35	97	2.50	10
6	2.5	25	E14	LED Fil Candle 2.5W 827 E14 FR	93115512	250	2700	300	220-240	80	15k	A++	35	97	2.50	10
4	2.5	25	E27	LED Fil Candle 2.5W 827 E27 CL	93115510	250	2700	300	220-240	80	15k	A++	35	95	2.50	10
6	2.5	25	E27	LED Fil Candle 2.5W 827 E27 FR	93115513	250	2700	300	220-240	80	15k	A++	35	95	2.50	10
4	2.5	25	B15	LED Fil Candle 2.5W 827 B15 CL	93115972	250	2700	300	220-240	80	15k	A++	35	96	2.50	10
	2.5	25	B15	LED Fil Candle 2.5W 827 B15 FR	93115973	250	2700	300	220-240	80	15k	A++	35	96	2.50	10
	2.5	25	B22	LED Fil Candle 2.5W 840 B22 FR	93115517	250	4000	300	220-240	80	15k	A++	35	93	2.50	10
	2.5	25	E14	LED Fil Candle 2.5W 840 E14 FR	93115515	250	4000	300	220-240	80	15k	A++	35	97	2.50	10
	2.5	25	E27	LED Fil Candle 2.5W 840 E27 FR	93115516	250	4000	300	220-240	80	15k	A++	35	95	2.50	10
6	2.5	25	B15	LED Fil Candle 2.5W 840 B15 FR	93115974	250	4000	300	220-240	80	15k	A++	35	96	2.50	10
	2.5	25	B22	LED Fil Candle 2.5W 865 B22 FR	93115520	250	6500	300	220-240	80	15k	A++	35	93	2.50	10
	2.5	25	E14	LED Fil Candle 2.5W 865 E14 FR	93115518	250	6500	300	220-240	80	15k	A++	35	97	2.50	10
	2.5	25	E27	LED Fil Candle 2.5W 865 E27 FR	93115519	250	6500	300	220-240	80	15k	A++	35	95	2.50	10
	2.5	25	B15	LED Fil Candle 2.5W 865 B15 FR	93115975	250	6500	300	220-240	80	15k	A++	35	96	2.50	10
5	4.5	40	B22	LED Fil Candle 4.5W 827 B22 CL	93115523	470	2700	300	220-240	80	15k	A++	35	93	4.50	10
6	4.5	40	B22	LED Fil Candle 4.5W 827 B22 FR	93115526	470	2700	300	220-240	80	15k	A++	35	93	4.50	10
5	4.5	40	E14	LED Fil Candle 4.5W 827 E14 CL	93115521	470	2700	300	220-240	80	15k	A++	35	97	4.50	10
6	4.5	40	E14	LED Fil Candle 4.5W 827 E14 FR	93115524	470	2700	300	220-240	80	15k	A++	35	97	4.50	10
5	4.5	40	E27	LED Fil Candle 4.5W 827 E27 CL	93115522	470	2700	300	220-240	80	15k	A++	35	95	4.50	10
6	4.5	40	E27	LED Fil Candle 4.5W 827 E27 FR	93115525	470	2700	300	220-240	80	15k	A++	35	95	4.50	10
5	4.5	40	B15	LED Fil Candle 4.5W 827 B15 CL	93115976	470	2700	300	220-240	80	15k	A++	35	96	4.50	10
	4.5	40	B15	LED Fil Candle 4.5W 827 B15 FR	93115977	470	2700	300	220-240	80	15k	A++	35	96	4.50	10
	4.5	40	B22	LED Fil Candle 4.5W 840 B22 FR	93115529	470	4000	300	220-240	80	15k	A++	35	93	4.50	10
	4.5	40	E14	LED Fil Candle 4.5W 840 E14 FR	93115527	470	4000	300	220-240	80	15k	A++	35	97	4.50	10
	4.5	40	E27	LED Fil Candle 4.5W 840 E27 FR	93115528	470	4000	300	220-240	80	15k	A++	35	95	4.50	10
3	4.5	40	B15	LED Fil Candle 4.5W 840 B15 FR	93115978	470	4000	300	220-240	80	15k	A++	35	96	4.50	10
	4.5	40	B22	LED Fil Candle 4.5W 865 B22 FR	93115532	470	6500	300	220-240	80	15k	A++	35	93	4.50	10
	4.5	40	E14	LED Fil Candle 4.5W 865 E14 FR	93115530	470	6500	300	220-240	80	15k	A++	35	97	4.50	10
	4.5	40	E27	LED Fil Candle 4.5W 865 E27 FR	93115531	470	6500	300	220-240	80	15k	A++	35	95	4.50	10
	4.5	40	B15	LED Fil Candle 4.5W 865 B15 FR	93115979	470	6500	300	220-240	80	15k	A++	35	96	4.50	10
5	7	60	B22	LED Fil Candle 7W 827 B22 CL	93115535	806	2700	300	220-240	80	15k	A++	35	93	7.00	10
6	7	60	B22	LED Fil Candle 7W 827 B22 FR	93115538	806	2700	300	220-240	80	15k	A++	35	93	7.00	10
5	7	60	E14	LED Fil Candle 7W 827 E14 CL	93115533	806	2700	300	220-240	80	15k	A++	35	97	7.00	10
6	7	60	E14	LED Fil Candle 7W 827 E14 FR	93115536	806	2700	300	220-240	80	15k	A++	35	97	7.00	10
5	7	60	E27	LED Fil Candle 7W 827 E27 CL	93115534	806	2700	300	220-240	80	15k	A++	35	95	7.00	10
6	7	60	E27	LED Fil Candle 7W 827 E27 FR	93115537	806	2700	300	220-240	80	15k	A++	35	95	7.00	10
5	7	60	B15	LED Fil Candle 7W 827 B15 CL	93115980	806	2700	300	220-240	80	15k	A++	35	96	7.00	10
	7	60	B15	LED Fil Candle 7W 827 B15 FR	93115981	806	2700	300	220-240	80	15k	A++	35	96	7.00	10
6	7	60	B22	LED Fil Candle 7W 840 B22 FR	93115541	806	4000	300	220-240	80	15k	A++	35	93	7.00	10
	7	60	E14	LED Fil Candle 7W 840 E14 FR	93115539	806	4000	300	220-240	80	15k	A++	35	97	7.00	10
	7	60	E27	LED Fil Candle 7W 840 E27 FR	93115540	806	4000	300	220-240	80	15k	A++	35	95	7.00	10
	7	60	B15	LED Fil Candle 7W 840 B15 FR	93115982	806	4000	300	220-240	80	15k	A++	35	96	7.00	10

LED RETROFIT SOLUTIONS

Decorative Lamps



LED Retrofit

	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
LED Stik - E14																
Single pack																
1	7	45	E14	LED 7/STIK/830/100-240/E14/F 1/15	93110797	550	3000	240	100-240	80	10k	A+	32	103	7.00	15
	7	48	E14	LED 7/STIK/840/100-240/E14/F 1/15	93109514	600	4000	240	100-240	80	10k	A+	32	103	7.00	15
	7	48	E14	LED 7/STIK/865/100-240/E14/F 1/15	93110796	600	6500	240	100-240	80	10k	A+	32	103	7.00	15
	Multi pack															
	7	45	E14	LED 7/STIK/830/100-240/E14/F 3/15	93109512	550	3000	240	100-240	80	10k	A+	32	103	7.00	15
	7	48	E14	LED 7/STIK/840/100-240/E14/F 3/15	93109513	600	4000	240	100-240	80	10k	A+	32	103	7.00	15
	7	48	E14	LED 7/STIK/865/100-240/E14/F 3/15	93109515	600	6500	240	100-240	80	10k	A+	32	103	7.00	15
	LED Warm Dimming Deco Golf															
2	5	40	E14	LED Golf WarmDim 5W 820-827 E14	93117660	470	2000-2700	320	220-240	80	15k	A+	45	80	5.00	6
	5	40	E27	LED Golf WarmDim 5W 820-827 E27	93117661	470		320	220-240	80	15k	A+	45	74	5.00	6
	5	40	B22	LED Golf WarmDim 5W 820-827 B22	93117662	470		320	220-240	80	15k	A+	45	73	5.00	6
	5	40	B15	LED Golf WarmDim 5W 820-827 B15	93117663	470		320	220-240	80	15k	A+	45	78	5.00	6
LED Warm Dimming Deco Candle																
3	5	40	E14	LED Candle WarmDim 5W 820-827 E14	93117664	470	2000-2700	160	220-240	80	15k	A+	35	97	5.00	6
	5	40	E27	LED Candle WarmDim 5W 820-827 E27	93117665	470		160	220-240	80	15k	A+	35	95	5.00	6
	5	40	B22	LED Candle WarmDim 5W 820-827 B22	93117666	470		160	220-240	80	15k	A+	35	94	5.00	6
	5	40	B15	LED Candle WarmDim 5W 820-827 B15	93117667	470		160	220-240	80	15k	A+	35	95	5.00	6



Tungsram's latest LED Decorative range brings the advantages of LED with an astonishingly stylish design and unique beam angle of 320°. It allows you to set the mood by gradually dimming the light output along with the colour temperature.



Offering a smooth dimmable solution from 2700K down to 2000K. The frosted glass housing enhances the warm dimming effect and provides a charming atmosphere for restaurants, cafés and even for your own home.



	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	Voltage (V)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Energy Consumption (kWh/1000h)	Pack Qty
LED Filament - Globes G95 Clear																
4	4.5	40	B22	LED Fil G95 4.5W 827 B22 CL	93115494	470	2700	300	220-240	80	15k	A++	95	136	4.50	4
	4.5	40	E27	LED Fil G95 4.5W 827 E27 CL	93115493	470	2700	300	220-240	80	15k	A++	95	138	4.50	4
	7	60	B22	LED Fil G95 7W 827 B22 CL	93115496	806	2700	300	220-240	80	15k	A++	95	136	7.00	4
	7	60	E27	LED Fil G95 7W 827 E27 CL	93115495	806	2700	300	220-240	80	15k	A++	95	138	7.00	4
	7	60	B22	LED Fil G95 7W 840 B22 CL	93115498	806	4000	300	220-240	80	15k	A++	95	136	7.00	4
	7	60	E27	LED Fil G95 7W 840 E27 CL	93115497	806	4000	300	220-240	80	15k	A++	95	138	7.00	4
	7	60	B22	LED Fil G95 7W 865 B22 CL	93115500	806	6500	300	220-240	80	15k	A++	95	136	7.00	4
	7	60	E27	LED Fil G95 7W 865 E27 CL	93115499	806	6500	300	220-240	80	15k	A++	95	138	7.00	4
	8.5	75	E27	LED Fil G95 8.5W 827 E27 CL	93115956	1 055	2700	300	220-240	80	15k	A++	95	138	8.50	4
	8.5	75	B22	LED Fil G95 8.5W 827 B22 CL	93115957	1 055	2700	300	220-240	80	15k	A++	95	136	8.50	4
	10	91	E27	LED Fil G95 10W 827 E27 CL	93115958	1 350	2700	300	220-240	80	15k	A++	95	138	10.00	4
	10	91	B22	LED Fil G95 10W 827 B22 CL	93115959	1 350	2700	300	220-240	80	15k	A++	95	136	10.00	4
	10	96	E27	LED Fil G95 10W 840 E27 CL	93115960	1 450	4000	300	220-240	80	15k	A++	95	138	10.00	4
	10	96	B22	LED Fil G95 10W 840 B22 CL	93115961	1 450	4000	300	220-240	80	15k	A++	95	136	10.00	4
	10	96	E27	LED Fil G95 10W 865 E27 CL	93115962	1 450	6500	300	220-240	80	15k	A++	95	138	10.00	4
	10	96	B22	LED Fil G95 10W 865 B22 CL	93115963	1 450	6500	300	220-240	80	15k	A++	95	136	10.00	4
LED Filament - Globe G120 Clear																
5	4.5	40	B22	LED Fil G120 4.5W 827 B22 CL	93115502	470	2700	300	220-240	80	15k	A++	124	170	4.50	4
	4.5	40	E27	LED Fil G120 4.5W 827 E27 CL	93115501	470	2700	300	220-240	80	15k	A++	124	172	4.50	4
	7	60	B22	LED Fil G120 7W 827 B22 CL	93115504	806	2700	300	220-240	80	15k	A++	124	170	7.00	4
	7	60	E27	LED Fil G120 7W 827 E27 CL	93115503	806	2700	300	220-240	80	15k	A++	124	172	7.00	4
	7	60	B22	LED Fil G120 7W 840 B22 CL	93115506	806	4000	300	220-240	80	15k	A++	124	170	7.00	4
	7	60	E27	LED Fil G120 7W 840 E27 CL	93115505	806	4000	300	220-240	80	15k	A++	124	172	7.00	4
	7	60	B22	LED Fil G120 7W 865 B22 CL	93115508	806	6500	300	220-240	80	15k	A++	124	170	7.00	4
	7	60	E27	LED Fil G120 7W 865 E27 CL	93115507	806	6500	300	220-240	80	15k	A++	124	172	7.00	4
	8.5	75	E27	LED Fil G120 8.5W 827 E27 CL	93115964	1 055	2700	300	220-240	80	15k	A++	124	172	8.50	4
	8.5	75	B22	LED Fil G120 8.5W 827 B22 CL	93115965	1 055	2700	300	220-240	80	15k	A++	124	170	8.50	4
	10	91	E27	LED Fil G120 10W 827 E27 CL	93115966	1 350	2700	300	220-240	80	15k	A++	124	172	10.00	4
	10	91	B22	LED Fil G120 10W 827 B22 CL	93115967	1 350	2700	300	220-240	80	15k	A++	124	170	10.00	4
	10	96	E27	LED Fil G120 10W 840 E27 CL	93115968	1 450	4000	300	220-240	80	15k	A++	124	172	10.00	4
	10	96	B22	LED Fil G120 10W 840 B22 CL	93115969	1 450	4000	300	220-240	80	15k	A++	124	170	10.00	4
	10	96	E27	LED Fil G120 10W 865 E27 CL	93115970	1 450	6500	300	220-240	80	15k	A++	124	172	10.00	4
	10	96	B22	LED Fil G120 10W 865 B22 CL	93115971	1 450	6500	300	220-240	80	15k	A++	124	170	10.00	4
LED Filament - ST64 Clear																
6	4.5	40	B22	LED Fil ST64 4.5W 827 B22 CL	93115490	470	2700	300	220-240	80	15k	A++	64	138	4.50	10
	4.5	40	E27	LED Fil ST64 4.5W 827 E27 CL	93115489	470	2700	300	220-240	80	15k	A++	64	140	4.50	10
	7	60	B22	LED Fil ST64 7W 827 B22 CL	93115492	806	2700	300	220-240	80	15k	A++	64	138	7.00	10
	7	60	E27	LED Fil ST64 7W 827 E27 CL	93115491	806	2700	300	220-240	80	15k	A++	64	140	7.00	10
	7.5	75	E27	LED Fil ST64 8.5W 827 E27 CL	93115952	1 055	2700	300	220-240	80	15k	A++	64	140	8.50	10
	8.5	75	B22	LED Fil ST64 8.5W 827 B22 CL	93115953	1 055	2700	300	220-240	80	15k	A++	64	138	8.50	10
	10	91	E27	LED Fil ST64 10W 827 E27 CL	93115954	1 350	2700	300	220-240	80	15k	A++	64	140	10.00	10
	10	91	B22	LED Fil ST64 10W 827 B22 CL	93115955	1 350	2700	300	220-240	80	15k	A++	64	138	10.00	10





LED GU10

Cap: GU10
Wattage: 3.5W, 5W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 15 000 h



LED GU10 Dimmable

Cap: GU10
Wattage: 5W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 25 000 h



LED GU10 High CRI Dimmable

Cap: GU10
Wattage: 6W
Voltage: 220 - 240V
Beam angle: 20°, 35°
Rated life: 50 000 h



LED GU10 High Lumen Dimmable

Cap: GU10
Wattage: 6W
Voltage: 220 - 240V
Beam angle: 35°, 60°
Rated life: 25 000 h



LED GU10 - Narrow Spot - Dimmable

Cap: GU10
Wattage: 5.2W
Voltage: 220 - 240V
Beam angle: 10°
Rated life: 25 000 h



LED GU10 Warm Dimming

Cap: GU10
Wattage: 5W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 25 000 h

GU10



LED MR16

Cap: GU5.3
Wattage: 5W, 7W
Voltage: 12V
Beam angle: 35°
Rated life: 15 000 h



LED MR16 High CRI, High Lumen Dimmable

Cap: GU5.3
Wattage: 8W
Voltage: 12V
Beam angle: 35°
Rated life: 25 000 h

MR16

	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh/1000h)	Voltage (V)	Diameter (mm)	Length (mm)	Pack Qty
LED GU10																
1	3,5	35	GU10	LED Start GU10 3.5W(35) 827 35° TU	93118610	280	2700	35	80	15k	A+	3.50	220-240	50	53	8
	5	50	GU10	LED Start GU10 5W(50) 827 35° TU	93118611	380	2700	35	80	15k	A+	5.00	220-240	50	53	8
	3,5	35	GU10	LED Start GU10 3.5W(35) 830 35° TU	93118612	290	3000	35	80	15k	A+	3.50	220-240	50	53	8
	3,5	35	GU10	LED Start GU10 3.5W(35) 840 35° TU	93118613	300	4000	35	80	15k	A+	3.50	220-240	50	53	8
	3,5	35	GU10	LED Start GU10 3.5W(35) 865 35° TU	93118614	300	6500	35	80	15k	A+	3.50	220-240	50	53	8
	5	50	GU10	LED Start GU10 5W(50) 830 35° TU	93118615	390	3000	35	80	15k	A+	5.00	220-240	50	53	8
	5	50	GU10	LED Start GU10 5W(50) 840 35° TU	93118696	400	4000	35	80	15k	A+	5.00	220-240	50	53	8
	5	50	GU10	LED Start GU10 5W(50) 865 35° TU	93118697	400	6500	35	80	15k	A+	5.00	220-240	50	53	8
LED GU10 - Dimmable																
2	5	50	GU10	LED ESmart GU10 5W(50)Dim 827 35°	93094493	360	2700	35	80	25k	A+	5.00	220-240	50	54	8
	5	50	GU10	LED ESmart GU10 5W(50)Dim 830 35°	93094495	380	3000	35	80	25k	A+	5.00	220-240	50	54	8
	5	50	GU10	LED ESmart GU10 5W(50)Dim 840 35°	93094497	400	4000	35	80	25k	A+	5.00	220-240	50	54	8
LED GU10 - High Lumen - Dimmable																
2	6	70	GU10	LED ESmart GU10 6W(70)Dim 830 35°	93094499	500	3000	35	80	25k	A+	6.00	220-240	50	54	8
	6	75	GU10	LED ESmart GU10 6W(75)Dim 830 60°	93094501	540	3000	60	80	25k	A+	6.00	220-240	50	54	8
	6	70	GU10	LED ESmart GU10 6W(70)Dim 840 35°	93094503	500	4000	35	80	25k	A+	6.00	220-240	50	54	8
	6	75	GU10	LED ESmart GU10 6W(75)Dim 840 60°	93094505	540	4000	60	80	25k	A+	6.00	220-240	50	54	8
LED GU10 - Warm Dimming																
3	5	50	GU10	LED WarmDim GU10 5W(50) 820-827 35°	93067834	350	2000-2700	35	80	25k	A+	5.00	220-240	50	54	8
LED - GU10 High CRI - Dimmable																
4	6	50	GU10	LED Precise GU10 6W(50)Dim 927 20°	93094507	350	2700	20	95	50k	A+	6.00	220-240	50	53	10
	6	50	GU10	LED Precise GU10 6W(50)Dim 927 35°	93094508	350	2700	35	95	50k	A+	6.00	220-240	50	53	10
	6	50	GU10	LED Precise GU10 6W(50)Dim 930 20°	93094509	370	3000	20	95	50k	A+	6.00	220-240	50	53	10
	6	50	GU10	LED Precise GU10 6W(50)Dim 930 35°	93094510	370	3000	35	95	50k	A+	6.00	220-240	50	53	10
	6	50	GU10	LED Precise GU10 6W(50)Dim 940 20°	93094511	400	4000	20	95	50k	A+	6.00	220-240	50	53	10
	6	50	GU10	LED Precise GU10 6W(50)Dim 940 35°	93094512	400	4000	35	95	50k	A+	6.00	220-240	50	53	10
LED GU10 - Narrow Spot - Dimmable																
5	5.2	50	GU10	LED Spot GU10 5.2W(50)Dim 827 10°	93118644	345	2700	10	80	25k	A+	6.00	220-240	51	58	8
	5.2	50	GU10	LED Spot GU10 5.2W(50)Dim 840 10°	93118645	345	4000	10	80	25k	A+	6.00	220-240	51	58	8
LED MR16																
6	5	35	GU5.3	LED Start MR16 5W(35) 827 35°	93094225	350	2700	35	80	15k	A+	5.50	12	50	45	8
	5	35	GU5.3	LED Start MR16 5W(35) 830 35°	93094457	350	3000	35	80	15k	A+	5.50	12	50	45	8
	5	35	GU5.3	LED Start MR16 5W(35) 840 35°	93094459	360	4000	35	80	15k	A+	5.50	12	50	45	8
	7	50	GU5.3	LED Start MR16 7W(50) 827 35°	93094467	621	2700	35	80	15k	A+	7.70	12	50	45	8
	7	50	GU5.3	LED Start MR16 7W(50) 830 35°	93094469	630	3000	35	80	15k	A+	7.70	12	50	45	8
7	7	50	GU5.3	LED Start MR16 7W(50) 840 35°	93094471	621	4000	35	80	15k	A+	7.70	12	50	45	8
	8	50	GU5.3	LED Precise MR16 8W(50)Dim 927 35°	93111228	621	2700	35	90	25k	A+	8.80	12	50	46	8
8	8	50	GU5.3	LED Precise MR16 8W(50)Dim 930 35°	93111154	621	3000	35	90	25k	A+	8.80	12	50	46	8
	8	50	GU5.3	LED Precise MR16 8W(50)Dim 940 35°	93111226	621	4000	35	90	25k	A+	8.80	12	50	46	8





LED Reflectors

Cap: E14, E27
Wattage: 6W, 8W, 10W
Voltage: 220 - 240V
Beam angle: 120°
Rated life: 15 000 h



LED Specialty PAR56 Pool Lamp

Cap: Screw Terminal
Wattage: 16.5W
Voltage: 12V
Beam angle: 90°
Rated life: 25 000 h



LED PAR30 High CRI Dimmable

Cap: E27
Wattage: 11W
Voltage: 220 - 240V
Beam angle: 35°
Rated life: 25 000 h



LED Capsule G4

Cap: G4
Wattage: 1.6W
Voltage: 12V
Rated life: 15 000 h



LED PAR38 Dimmable

Cap: E27
Wattage: 15W
Voltage: 220 - 240V
Beam angle: 40°
Rated life: 25 000 h



LED R111 High CRI Dimmable

Cap: G53
Wattage: 10.5W
Voltage: 12V
Beam angle: 25/40°
Rated life: 40 000 h



LED Capsule G9

Cap: G9
Wattage: 2.5W
Voltage: 220 - 240V
Rated life: 15 000 h



LED Pygmy

Cap: E14
Wattage: 1.6W
Voltage: 100 - 240V
Rated life: 15 000 h



High Lumen

Cap: E27
Wattage: 21W, 27W, 42W,
Voltage: 220 - 240V
Rated life: 10 000 h

	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh/1000h)	Voltage (V)	Diameter (mm)	Length (mm)	Pack Qty
LED Reflectors																
1	6	42	E14	LED6/R50/830/220-240V/120/E14	93083837	500	3000	120	80	15k	A+	6.00	220-240	50	86	6
	6	45	E14	LED6/R50/865/220-240V/120/E14	93083838	550	6500	120	80	15k	A+	6.00	220-240	50	86	6
2	8	48	E27	LED8/R63/830/220-240V/120/E27	93110807	600	3000	120	80	15k	A+	8.00	220-240	63	100	6
	8	54	E27	LED8/R63/865/220-240V/120/E27	93110808	700	6500	120	80	15k	A+	8.00	220-240	63	100	6
3	10	60	E27	LED10/R80/830/220-240V/120/E27	93110809	800	3000	120	80	15k	A+	10.00	220-240	80	110	6
	10	66	E27	LED10/R80/865/220-240V/120/E27	93110810	900	6500	120	80	15k	A+	10.00	220-240	80	110	6
LED Capsules																
4	1.6	15	G4	LED1.6/G4/827/12V/BL 1/10	93110793	150	2700	240	80	15k	A+	1.76	12	14	38	10
5	2.5	20	G9	LED2.5/G9/827/220-240V/BL 1/10	93110794	200	2700	240	80	15k	A+	2.50	220-240	18	52	10
LED Pygmy																
6	1.6	15	E14	LED1.6/T25/827/100-240V/E14/F TWBL 2/10	93110792	140	2700	-	80	15k	A+	1.60	100-240	59	1,60	10
	1.6	15	E14	LED1.6/T25/865/100-240V/E14/F BL 1/10	93110795	150	6500	-	80	15k	A+	1.60	100-240	59	1,60	10
LED HighLumen																
7	21	120	E27	LED HighLumen T80 21W(120) 830 E27	93083678	1 900	3000	200	220-240	80	10k	A+	81	149	21.00	6
	21	125	E27	LED HighLumen T80 21W(125) 865 E27	93083679	2 000	6500	200	220-240	80	10k	A+	81	149	21.00	6
8	27	169	E27	LED HighLumen T100 27W(169) 830 E27	93083680	2 800	3000	200	220-240	80	10k	A+	101	189	27.00	4
	27	179	E27	LED HighLumen T100 27W(179) 865 E27	93083681	3 000	6500	200	220-240	80	10k	A+	101	189	27.00	4
9	42	217	E27	LED HighLumen T120 42W(217) 830 E27	93083682	3 700	3000	200	220-240	80	10k	A+	119	219	42.00	4
	42	233	E27	LED HighLumen T120 42W(233) 865 E27	93083683	4 000	6500	200	220-240	80	10k	A+	119	219	42.00	4
LED Specialty PAR56 - Pool Lamp																
10	16	300	Screw	LED Specialty PAR56 16W(300) 730 90°	93104930	1 350	3000	90	70	25k	A+	16.96	12	178	110	1
	16	300	Terminal	LED Specialty PAR56 16W(300) 765 90°	93077313	1 500	6500	90	70	25k	A+	16.96	12	178	110	1
LED PAR38 - Dimmable																
11	15	140	E27	LED Esmart PAR38 15W(140) 830 E27 40°	93111229	1 200	3000	40	81	25k	A+	15.00	220-240	122	131	6
LED PAR30 - High CRI - Dimmable																
12	11	85	E27	LED Precise PAR30 11W (85) Dim 930 35 E27	93104932	720	3000	35	90	25k	A	11.00	220-240	96	95	6
	11	85	E27	LED Precise PAR30 11W (85) Dim 940 35 E27	93104933	720	4000	35	90	25k	A	11.00	220-240	96	95	6
LED R111 - High CRI - Dimmable																
10.5	71	G53		LED Precise R111 10.5W(70)Dim 927 25°	93117326	695	2700	25	90	40k	A	11.55	12	111	56	10
	72	G53		LED Precise R111 10.5W(70)Dim 927 40°	93117327	700	2700	40	90	40k	A	11.55	12	111	56	10
13	10.5	72	G53	LED Precise R111 10.5W(70)Dim 930 25°	93117328	700	3000	25	90	40k	A	11.55	12	111	56	10
	10.5	72	G53	LED Precise R111 10.5W(70)Dim 930 40°	93117329	700	3000	40	90	40k	A	11.55	12	111	56	10
10.5	72	G53		LED Precise R111 10.5W(70)Dim 940 25°	93117330	700	4000	25	90	40k	A	11.55	12	111	56	10
	10.5	72	G53	LED Precise R111 10.5W(70)Dim 940 40°	93117331	700	4000	40	90	40k	A	11.55	12	111	56	10



LED RETROFIT SOLUTIONS

Tubes and Plugins



T8 Ultra Glass (CCG/Mains)
Cap: G13
Wattage: 8W, 15W 23.5W
Voltage: 220 - 240V
Op. Fr.: 50/60 Hz
Rated life: 50 000 h



T8 Value Glass (CCG/Mains)
Cap: G13
Wattage: 8W, 14W, 17W, 24W, 26W, 26.5W, 30W
Voltage: 100 - 240V
Op. Fr.: 50/60 Hz
Rated life: 50 000 h



T5 Glass
Cap: G5
Wattage: 7.5W, 16W, 26W, 34W
Voltage: 220 - 240V
Op. Fr.: 50 Hz
Rated life: 50 000 h



LED 4 pin Plug-in Gen2*
Cap: G24q-2, G24q-3
Wattage: 7.5W, 10W
Rated life: 50 000 h
Position: Horizontal



LED 2 pin Plug-in
Cap: G24d
Wattage: 10.5W
Rated life: 50 000 h
Position: Horizontal

LED Plug-in



LED T8 Ultra Glass Covered (CCG/Mains)
Cap: G13
Wattage: 15W 23.5W
Voltage: 220 - 240V
Op. Fr.: 50/60 Hz
Rated life: 50 000 h



T8 Start Glass (CCG/Mains)
Cap: G13
Wattage: 8W, 16W, 20W
Voltage: 220 - 240V
Op. Fr.: 50/60 Hz
Rated life: 15 000 h



LED T8 Dummy Starter



LED HID
Cap: E27, E40
Wattage: 35W, 80W, 150W
Rated life: 40 000h and 50 000 h
Position: Universal

LED Mercury & HID replacement

LED T8 & T5 Tube



LED 2D*
Cap: GR8, GR10q
Wattage: 6.5W, 12.5W
Rated life: 40 000 h
Position: Universal



LED 2D AC
Cap: GR8, GR10q
Wattage: 6.5W, 12.5W
Rated life: 40 000 h
Position: Universal

* LED 2D ECG and 4 pin Plug-in lamps can't be operated directly from Mains voltage, a CFL ballast is needed

LED 2D

LED RETROFIT SOLUTIONS

Tubes



	Product Description	Product Code	Wattage (W)	Length (mm)	Voltage (V)	Cap	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	Diameter (mm)	Energy Con- sumption (kWh/1000h)	EEC	Pack Qty
LED T8 Ultra Glass (CCG/Mains)															
1	LEDT8 UG 0.6m 8W 830	93098368*	8	600	220-240V	G13	1 050	3000	200	80<	50k	28	8	A++	10
	LEDT8 UG 0.6m 8W 840	93098369	8	600	220-240V	G13	1 150	4000	200	80<	50k	28	8	A++	10
	LEDT8 UG 0.6m 8W 865	93098370	8	600	220-240V	G13	1 150	6500	200	80<	50k	28	8	A++	10
	LEDT8 UG 1.2m 15W 830	93098371*	15	1200	220-240V	G13	2 150	3000	200	80<	50k	28	15	A++	10
	LEDT8 UG 1.2m 15W 840	93098372	15	1200	220-240V	G13	2 385	4000	200	80<	50k	28	15	A++	10
	LEDT8 UG 1.2m 15W 865	93098373	15	1200	220-240V	G13	2 385	6500	200	80<	50k	28	15	A++	10
	LEDT8 UG 1,5m 23,5W 840	93098375	23,5	1500	220-240V	G13	3 650	4000	200	80<	50k	28	24	A++	10
	LEDT8 UG 1,5m 23,5W 865	93098376	23,5	1500	220-240V	G13	3 650	6500	200	80<	50k	28	24	A++	10
	LED T8 Ultra Glass Covered (CCG/Mains)														
	LEDT8 UGC 1.2m 15W 840	93114806	15	1200	220-240V	G13	2 400	4000	200	80<	50k	28	15	A++	10
1	LEDT8 UGC 1.2m 15W 865	93114807	15	1200	220-240V	G13	2 400	6500	200	80<	50k	28	15	A++	10
	LEDT8 UGC 1.5m 23.5W 840	93114808	23,5	1500	220-240V	G13	3 700	4000	200	80<	50k	28	24	A++	10
	LEDT8 UGC 1.5m 23.5W 865	93114809	23,5	1500	220-240V	G13	3 700	6500	200	80<	50k	28	24	A++	10
LED T8 Value Glass (CCG/Mains)															
1	LED 8/T8VG 0,6m/830	93112599	8	604	100-240	G13	950	3000	200	80<	50k	28	8	A++	15
	LED 8/T8VG 0,6m/840	93112600	8	604	100-240	G13	1 000	4000	200	80<	50k	28	8	A++	15
	LED 8/T8VG 0,6m/865	93112601	8	604	100-240	G13	1 000	6500	200	80<	50k	28	8	A++	15
	LED 14/T8VG 1,2m/840	93112602	14	1214	100-240	G13	1 750	4000	200	80<	50k	28	14	A++	15
	LED 14/T8VG 1,2m/865	93112603	14	1214	100-240	G13	1 750	6500	200	80<	50k	28	14	A++	15
	LED 17/T8VG 1,2m/830	93112604	17	1214	100-240	G13	2 000	3000	200	80<	50k	28	17	A+	15
	LED 17/T8VG 1,2m/840	93112605	17	1214	100-240	G13	2 100	4000	200	80<	50k	28	17	A++	15
	LED 17/T8VG 1,2m/865	93112866	17	1214	100-240	G13	2 100	6500	200	80<	50k	28	17	A++	15
	LEDT8 VG 1.5m 24W 830	93114776	24	1514	100-240	G13	3 000	3000	200	80<	50k	28	24	A++	10
	LEDT8 VG 1.5m 24W 840	93114777	24	1514	100-240	G13	3 100	4000	200	80<	50k	28	24	A++	10
	LEDT8 VG 1.5m 24W 865	93114778	24	1514	100-240	G13	3 100	6500	200	80<	50k	28	24	A++	10
	LEDT8 VG 1.8m 24W 830	93116715	24	1800	100-240	G13	3 000	3000	200	80<	50k	28	24	A++	10
	LEDT8 VG 1.8m 24W 840	93116716	24	1800	100-240	G13	3 100	4000	200	80<	50k	28	24	A++	10
	LEDT8 VG 1.8m 24W 865	93116717	24	1800	100-240	G13	3 100	6500	200	80<	50k	28	24	A++	10
	LEDT8 VG 1.8m 26W 830	93117785	26	1800	220-240	G13	3 300	3000	200	80<	50k	28	26	A++	10
	LEDT8 VG 1.8m 26W 840	93117796	26	1800	220-240	G13	3 600	4000	200	80<	50k	28	26	A++	10
	LEDT8 VG 1.8m 26W 865	93117797	26	1800	220-240	G13	3 600	6500	200	80<	50k	28	26	A++	10
LED T8 Start Glass (AC Mains connection only, no Starter)															
1	LED 8/T8SG 15k 0.6m/830	93117321	8	600	220-240	G13	750	3000	200	80<	15k	28	8	A+	15
	LED 8/T8SG 15k 0.6m/840	93092510	8	1200	220-240	G13	800	4000	200	80<	15k	28	8	A+	15
	LED 8/T8SG 15k 0.6m/865	93092511	8	1500	220-240	G13	800	6500	200	80<	15k	28	8	A+	15
	LED 16/T8SG 15k 1.2m/840	93092513	16	1200	220-240	G13	1 600	4000	200	80<	15k	28	16	A+	15
	LED 16/T8SG 15k 1.2m/865	93092514	16	1200	220-240	G13	1 600	6500	200	80<	15k	28	16	A+	15
	LED 20/T8SG 15k 1.5m/840	93092516	20	1500	220-240	G13	2 050	4000	200	80<	15k	28	20	A+	15
	LED 20/T8SG 15k 1.5m/865	93092517	20	1500	220-240	G13	2 050	6500	200	80<	15k	28	20	A+	15
	LED T8 SG 0.6m 8W 840	93117322	8	600	220-240	G13	800	4000	200	80<	15k	28	8	A+	15
	LED T8 SG 0.6m 8W 865	93117323	8	600	220-240	G13	800	6500	200	80<	15k	28	8	A+	15
	LED T8 SG 1.2m 16W 840	93117325	16	1200	220-240	G13	1 600	4000	200	80<	15k	28	16	A+	15
	LED T8 SG 1.2m 16W 865	93117356	16	1200	220-240	G13	1 600	6500	200	80<	15k	28	16	A+	15
	LED T8 SG 1.5m 20W 840	93117358	20	1500	220-240	G13	2 050	4000	200	80<	15k	28	20	A+	15
	LED T8 SG 1.5m 20W 865	93117359	20	1500	220-240	G13	2 050	6500	200	80<	15k	28	20	A+	15

* Marked for delist

	Product Description	Product Code	Wattage (W)	Length (mm)	Voltage (V)	Cap	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	Diameter (mm)	Energy Con- sumption (kWh/1000h)	EEC	Pack Qty
LED T8 Dummy Starter															
2	LED T8 StartFIX	93094702													25/100
LED T5 Premium Glass (AC Mains connection only)															
	LEDT5 0.6m 7.5W 830 AC	93117618	7,5	549	220-240	G5	1000	3000	165	80+	50k	18	8	A++	10
	LEDT5 0.6m 7.5W 840 AC	93115376	7,5	549	220-240	G5	1100	4000	165	80+	50k	18	8	A++	10
	LEDT5 0.6m 7.5W 865 AC	93115377	7,5	549	220-240	G5	1100	6500	165	80+	50k	18	8	A++	10
	LEDT5 1.2m 16W 830 AC	93117616	16	1 149	220-240	G5	2200	3000	165	80+	50k	18	16	A++	10
	LEDT5 1.2m 16W 840 AC	93114766	16	1 149	220-240	G5	2400	4000	165	80+	50k	18	16	A++	10
	LEDT5 1.2m 16W 865 AC	93114767	16	1 149	220-240	G5	2400	6500	165	80+	50k	18	16	A++	10
	LEDT5 1.2m 26W 830 AC	93114768	26	1 149	220-240	G5	3900	3000	165	80+	50k	18	26	A++	10
	LEDT5 1.2m 26W 840 AC	93114769	26	1 149	220-240	G5	3900	4000	165	80+	50k	18	26	A++	10
	LEDT5 1.2m 26W 865 AC	93114770	26	1 149	220-240	G5	3900	6500	165	80+	50k	18	26	A++	10
	LEDT5 1.5m 26W 830 AC	93114771	26	1 449	220-240	G5	3900	3000	165	80+	50k	18	26	A++	10
3	LEDT5 1.5m 26W 840 AC	93114772	26	1 449	220-240	G5	3900	4000	165	80+	50k	18	26	A++	10
	LEDT5 1.5m 26W 865 AC	93114773	26	1 449	220-240	G5	3900	6500	165	80+	50k	18	26	A++	10
	LEDT5 1.5m 34W 830 AC	93117617	34	1 449	220-240	G5	4400	3000	165	80+	50k	18	34	A++	10
	LEDT5 1.5m 34W 840 AC	93114774	34	1 449	220-240	G5	5100	4000	165	80+	50k	18	34	A++	10
	LEDT5 1.5m 34W 865 AC	93114775	34	1 449	220-240	G5	5100	6500	165	80+	50k	18	34	A++	10

Quick guide: How to replace existing Fluorescent tubes with LED T8 tubes:

- Fluorescent T8 on High Frequency Electronic Control Gear (ECG) - No Fluorescent Starter is used > replace with LED T8 Plastic HF
- Fluorescent T8 on Electromagnetic Conventional Control Gear (CCG/Mains) - Fluorescent Starter is present >
- Option 1. Replace with LED Starter & LED T8 PPR/UG/VG/SG
- Option 2. Remove Fluorescent Starter and refit LED T8 with direct connection to Mains (no live connection at open end on LED T8!)



LED RETROFIT SOLUTIONS

Plug-in & HID Replacement Lamps



	Wattage (W)	Ballast Compatibility	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	Size (mm)	Energy Consumption (kWh/1000h)	EEC	Pack Qty	Replacement for
LED 2D															
1	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/827/GR8	93110758	750	2700	120 x 130	80+	40k	136 x 132	6.5	A+	10	16W CFL 2D
	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/830/GR8	93110759	770	3000	120 x 130	80+	40k	136 x 132	6.5	A+	10	
	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/835/GR8	93110760	800	3500	120 x 130	80+	40k	136 x 132	6.5	A+	10	
	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/840/GR8	93110764	830	4000	120 x 130	80+	40k	136 x 132	6.5	A+	10	
2	12.5	electronic	GR10q	LED 2D4P 12.5W/ECG/827/GR10q	93110767	1 400	2700	120 x 130	80+	40k	201 x 188	12.5	A+	10	28W CFL 2D
	12.5	electronic	GR10q	LED 2D4P 12.5W/ECG/835/GR10q	93110766	1 500	3500	120 x 130	80+	40k	201 x 188	12.5	A+	10	
	12.5	electronic	GR10q	LED 2D4P 12.5W/ECG/840/GR10q	93110765	1 550	4000	120 x 130	80+	40k	201 x 188	12.5	A+	10	
	12.5	magnetic	GR10q	LED 2D4P 12.5W/CCG/827/GR10q	93110762	1 400	2700	120 x 130	80+	40k	201 x 188	12.5	A+	10	
	12.5	magnetic	GR10q	LED 2D4P 12.5W/CCG/835/GR10q	93110761	1 500	3500	120 x 130	80+	40k	201 x 188	12.5	A+	10	
	12.5	magnetic	GR10q	LED 2D4P 12.5W/CCG/840/GR10q	93110763	1 550	4000	120 x 130	80+	40k	201 x 188	12.5	A+	10	
	LED 2D AC Mains connection only														
1	12.5	magnetic	GR8	LED 2D2P 6.5W/835/GR8/220-240	93117376	790	3500	140 deg	80+	40k	136 x 132	6,5	A++	10	Mag-netic Ballast LED 2D
	12.5	magnetic	GR8	LED 2D2P 6.5W/840/GR8/220-240	93117379	815	4000	140 deg	80+	40k	136 x 132	6,5	A++	10	
2	12.5	magnetic	GR10q	LED 2D4P 12.5W/835GR10q/220-240	93117377	1 500	3500	140 deg	80+	40k	201 x 188	12,5	A++	10	
	12.5	magnetic	GR10q	LED 2D4P 12.5W/840GR10q/220-240	93117378	1 550	4000	140 deg	80+	40k	201 x 188	12,5	A++	10	
For a list of ballasts tested and approved for compatibility, access: tungsram.com/LEDPlugIn-compatibility															

For a list of ballasts tested and approved for compatibility, access: tungsram.com/LEDPlugIn-compatibility



	Wattage (W)	Burning Position	Cap	Product Description	Product Code *	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	Length (mm)	Width / Diameter (mm)	Energy Consumption (kWh/1000h)	EEC	Pack Qty	Replacement for
LED 4-Pin Plug-in Gen2																
3	7.5	Horizontal	G24q-2	LED 7.5/G2/G24q-2/4P/H/830	93110774	850	3000	110 x 120	80+	50k	132	34.5	7.5	A+	6	18W CFL
	7.5	Horizontal	G24q-2	LED 7.5/G2/G24q-2/4P/H/840	93110775	880	4000	110 x 120	80+	50k	132	34.5	7.5	A+	6	
	7.5	Horizontal	G24q-2	LED 7.5/G2/G24q-2/4P/H/865	93110776	900	6500	110 x 120	80+	50k	132	34.5	7.5	A+	6	
	10	Horizontal	G24q-3	LED 10/G2/G24q-3/4P/H/830	93110771	1 150	3000	110 x 120	80+	50k	132	34.5	10	A+	6	26/32W CFL
	10	Horizontal	G24q-3	LED 10/G2/G24q-3/4P/H/840	93110772	1 170	4000	110 x 120	80+	50k	132	34.5	10	A+	6	
	10	Horizontal	G24q-3	LED 10/G2/G24q-3/4P/H/865	93110773	1 200	6500	110 x 120	80+	50k	132	34.5	10	A+	6	
For a list of ballasts tested and approved for compatibility, access: tungsram.com/LEDPlugIn-compatibility																
LED 2-Pin Plug-in																
4	10.5	Horizontal	G24d	LED 10.5/G24d/2P/H/830	93110768	1 050	3000	110 x 120	80+	50k	165	34.5	10.5	A+	6	13/18/26W CFL
	10.5	Horizontal	G24d	LED 10.5/G24d/2P/H/840	93110769	1 050	4000	110 x 120	80+	50k	165	34.5	10.5	A+	6	
	10.5	Horizontal	G24d	LED 10.5/G24d/2P/H/865	93110770	1 050	6500	110 x 120	80+	50k	165	34.5	10.5	A+	6	

	Wattage (W)	Burning Position	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	Length (mm)	Diameter (mm)	EEC	Replacement for	Pack Qty
LED HID															
5	35	Universal	E27	LED 35W/Mercury/730/E27	93105804	4 750	3000	360	70+	40k	211	103.9	-	80/125W Mercury	6
	35	Universal	E27	LED 35W/Mercury/740/E27	93105805	4 800	4000	360	70+	40k	211	103.9	-		6
6	80	Universal	E40	LED 80W/HID/740/E40	93105826	12 000	4000	360	70+	50k	211	103.9	-	250W CMH	6
	80	Universal	E40	LED 80W/HID/750/E40	93105827	23 000	5000	360	70+	50k	211	103.9	-		6
7	150	Universal	E40	LED 150W/HID/740/E40	93094721	23 000	4000	360	70+	50k	211	103.9	-	250W CMH	1
	150	Universal	E40	LED 150W/HID/750/E40	93094722	23 000	5000	360	70+	50k	211	103.9	-		1



A modern office interior featuring a long hallway with wood-paneled walls on the left and glass-walled meeting rooms on the right. The ceiling has recessed linear LED lights. Large windows at the end of the hallway and on the right side offer a view of a city skyline. The floor is made of light-colored tiles.

LED INDOOR SOLUTIONS

From future-proof modular solutions to innovative new formats, we deliver high quality LED solutions at an affordable price for vertical market areas such as offices, commercial units, hospitality facilities and industrial sites. Our LED Fixtures portfolio is a comprehensive range of economic indoor lighting products for any application, across all market sectors, offering a highly attractive combination of light quality, color reproduction, reliability and efficiency.



LED INDOOR SOLUTION

Product overview - Indoor fixtures

Edgelit Panel Premium



Edgelit Panel Standard



Edgelit Panel Value



Fireproof
Downlight



Trackspot
LUX / ADV



Torofi



Tudolio



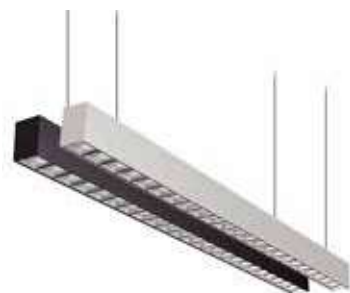
COB Downlight
UGR<19 IP54



COB Downlight
Multigimbal



Torofi



Torofi Recessed



Linear Indirect



COB Downlight
Adjustable / Scoop



Slim Downlight
Premium



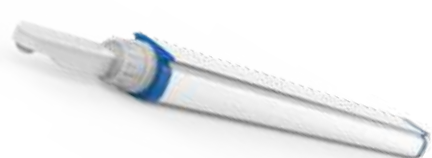
Slim Downlight
Value



TubularLinear



Waterproof Programmable
mariner with PIR



Waterproof Mariner
Integrated Premium



Diffuser
Downlight IP20



Diffuser
Downlight IP44



Recessed
Spotlight 5W / 6W



Waterproof Mariner
Premium G2



Waterproof Mariner
Clips



Waterproof Mariner
Integrated Value



LED INDOOR SOLUTION

Product overview - Indoor fixtures

Waterproof Mariner Empty Body



SwiftLUX



T5 Switch Batten



Floodlights G1



Floodlights G3



Floodlight Value



T5 Batten IP65



2D Bulkhead



Integrated Bulkhead



LED Emergency Downlighter



LED Emergency Converter Kit



LED Emergency EXIT Signs



Integrated Bulkhead G2

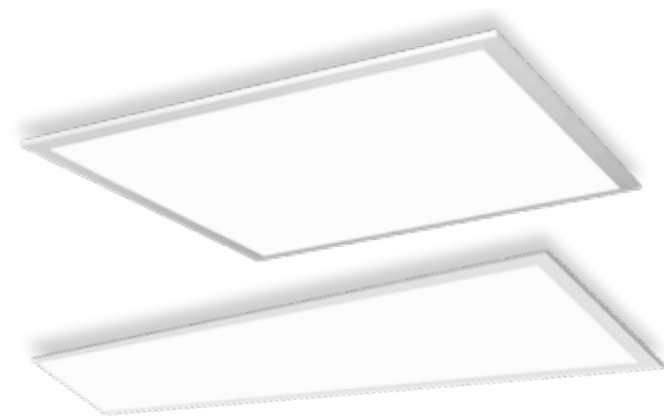


Bulkhead Ceiling Light



Edgelit Panel Premium

Tungsum LED luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency. When illuminated, the panels deliver exceptional uniform light to the space and while off they appear completely free of a visible light source. Panels are designed to replace fluorescent fixtures in suspended T-grid ceilings.

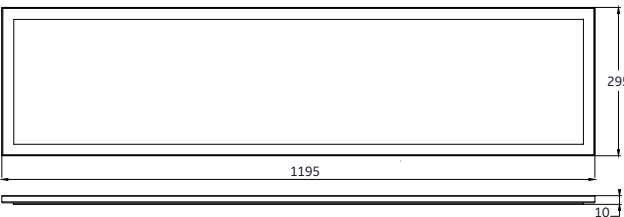


Benefits

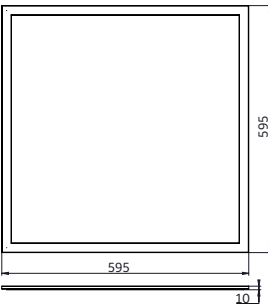
- Power: 30W, 33W, and 38W versions
- Control: Tungsum static driver and BOKE DALI 2 driver with Push-Dim function
- Energy efficient: Up to 120lm/W efficiency
- Luminous flux: up to 4560 lm
- CCT: 3000K, 4000K, 6500K
- Lifetime: 50.000 hours at L80/B20
- Flicker free
- Easy installation with Loop in-Loop out connection and hook for safety cable
- High quality Samsung chips
- IK03 Impact protection rate

SLIM PROFILE

Panel 1x4



Panel 2x2



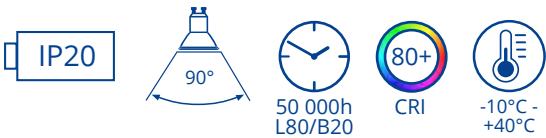
Easy to install into 15mm or 24mm exposed T-grid ceilings

Edgelit Panel Premium



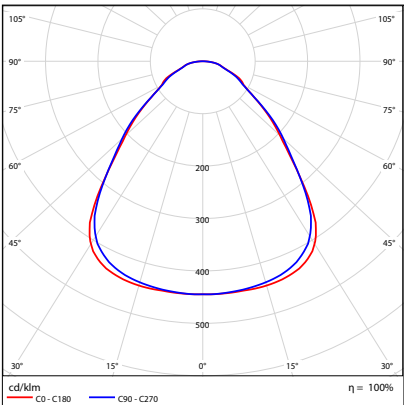
Edgelit Panel Premium

Edgelit Panel Premium

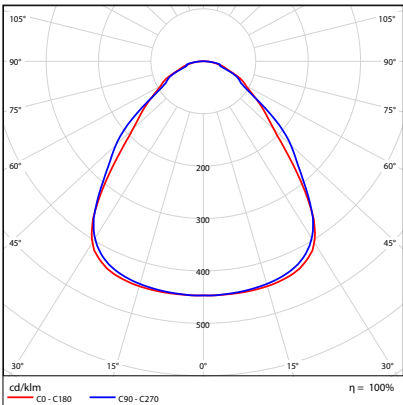


Edgelit Panel Premium

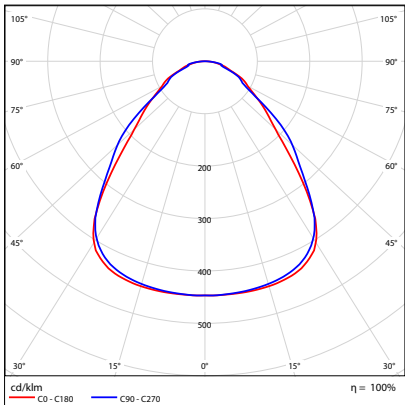
2x2 panel



2x2 30W 3000K

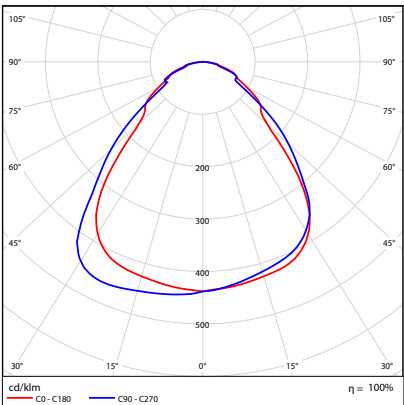


2x2 30W 4000K

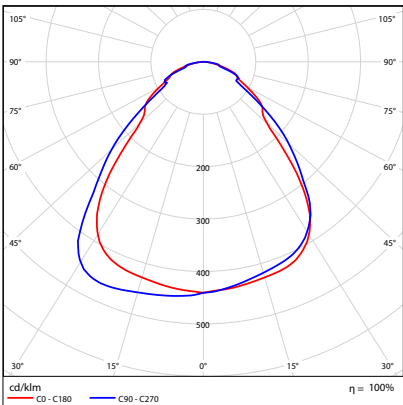


2x2 30W 6500K

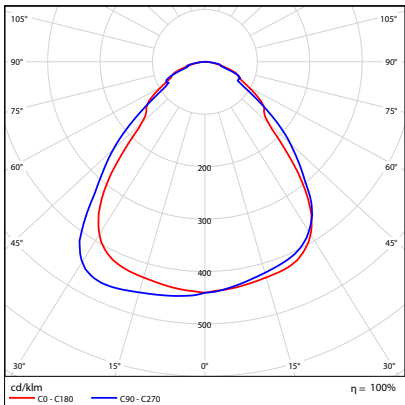
1x4 panel



1x4 30W 3000K



1x4 30W 4000K



1x4 30W 6500K

Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR	Dimensions (mm)
Edgelit Panel Premium - Static driver								
Tung Panel P 2x2 S 30W 830 19	93118676	30	3450	115	3000	≤4	<19	595x595x9
Tung Panel P 2x2 S 30W 840 19	93118677	30	3600	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 30W 865 19	93118678	30	3600	120	6500	≤4	<19	595x595x9
Tung Panel P 1x4 S 30W 830 19	93118679	30	3450	115	3000	≤4	<19	295x1195x9
Tung Panel P 1x4 S 30W 840 19	93118680	30	3600	120	4000	≤4	<19	295x1195x9
Tung Panel P 1x4 S 30W 865 19	93118681	30	3600	120	6500	≤4	<19	295x1195x9
Tung Panel P 2x2 S 33W 830 19	93119509	33	3800	115	3000	≤4	<19	595x595x9
Tung Panel P 2x2 S 33W 840 19	93119510	33	4000	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 33W 865 19	93119511	33	4000	120	6500	≤4	<19	595x595x9
Tung Panel P 1x4 S 33W 830 19	93119512	33	3800	115	3000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 33W 840 19	93119513	33	4000	120	4000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 33W 865 19	93119514	33	4000	120	6500	≤4	<19	295x1195x10
Tung Panel P 2x2 S 38W 830 19	93118682	38	4370	115	3000	≤4	<19	595x595x9
Tung Panel P 2x2 S 38W 840 19	93118683	38	4560	120	4000	≤4	<19	595x595x9
Tung Panel P 2x2 S 38W 865 19	93118684	38	4560	120	6500	≤4	<19	595x595x9
Tung Panel P 1x4 S 38W 830 19	93118685	38	4370	115	3000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 38W 840 19	93118686	38	4560	120	4000	≤4	<19	295x1195x10
Tung Panel P 1x4 S 38W 865 19	93118687	38	4560	120	6500	≤4	<19	295x1195x10
Edgelit Panel Premium - DALI driver								
Tung Panel S 2x2 D 38W 840 19	93118671	38	4560	120	4000	≤4	<19	595x595x9
Tung Panel S 2x2 D 38W 830 19	93118708	38	4370	115	3000	≤4	<19	595x595x9
Tung Panel S 1x4 D 38W 840 19	93118672	38	4560	120	4000	≤4	<19	295x1195x9
Edgelit Panel Accessories								
Surface mounting Kit 2x2 R9003 P	93117380	-	-	-	-	-	-	-
Surface mounting Kit 1x4 R9003 P	93117381	-	-	-	-	-	-	-
Surface mounting Kit 2x2 DS R9003 P	93117658	-	-	-	-	-	-	-
Surface mounting Kit 1x4 DS R9003 P	93117659	-	-	-	-	-	-	-
SUSPENSION KIT 2X2 LED PANEL P	93118779	-	-	-	-	-	-	-
Edgelit LED Panel Safety Kit P	93118780	-	-	-	-	-	-	-
SUSPENSION KIT 1X4 LED PANEL P	93118781	-	-	-	-	-	-	-
Plasterboard Mount KIT for Edgelit P	93118782	-	-	-	-	-	-	-

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238 with static control products and 93100239 with the DALI control products.

Edgelit Panel Standard

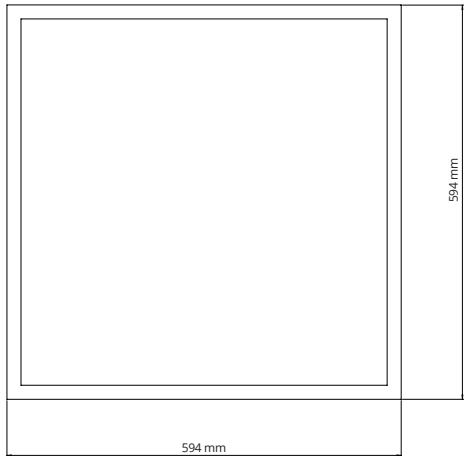
Our new edgelit panel range is ultrathin and very light, so it is very easy to store and install. The diffuser structure creates an even better light distribution at a low glare level. Our multipack packaging helps you to reduce logistics cost and lower our carbon footprint by reducing the packaging significantly.



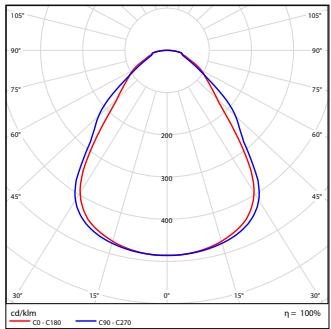
Benefits

- Even light distribution
- Easy installation
- Reliable Samsung chips
- Light weight
- Optimized packaging

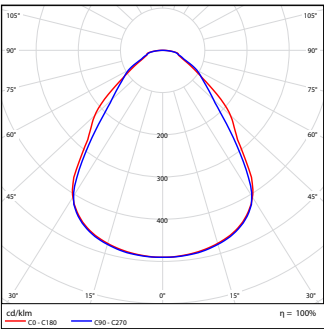
Dimensions (mm)



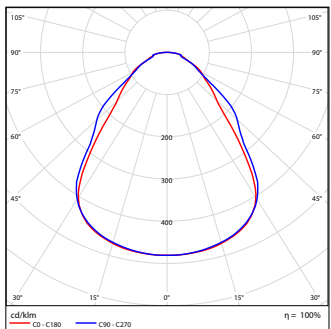
Photometric data



2x2 40W 3000K

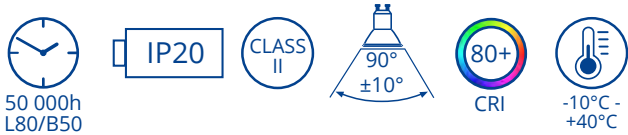


2x2 40W 4000K, 6500K



2x2 30W 3000K,
4000K, 6500K

Edgelit Panel Standard



Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR	Dimensions (mm)
Edgelit Panel Standard - Static driver								
Tung Panel S 2x2 S 30W 830 19	93117497	30	3 150	105	3000	≤4	<19	595x595x9
Tung Panel S 2x2 S 30W 840 19	93117498	30	3 300	110	4000	≤4	<19	595x595x9
Tung Panel S 2x2 S 30W 865 19	93117499	30	3 300	110	6500	≤4	<19	595x595x9
Tung Panel S 2x2 S 40W 830 19	93117509	40	4 200	105	3000	≤4	<19	595x595x9
Tung Panel S 2x2 S 40W 840 19	93117510	40	4 400	110	4000	≤4	<19	595x595x9
Tung Panel S 2x2 S 40W 865 19	93117511	40	4 400	110	6500	≤4	<19	595x595x9
Tung Panel HL 2x2 S 48W 830 19	93117519	48	5 040	105	3000	≤4	<19	595x595x9
Tung Panel HL 2x2 S 48W 840 19	93117520	48	5 280	110	4000	≤4	<19	595x595x9
Panel Standard - Accessories								
Surface mounting Kit 2x2 R9003 P	93117380							
Surface mounting Kit 2x2 DS R9003 P	93117658							
SUSPENSION KIT 2X2 LED PANEL S	93119769							
Plasterboard Mount KIT for Edgelit S	93119770							
Edgelit LED Panel Safety Kit S	93119771							

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238.



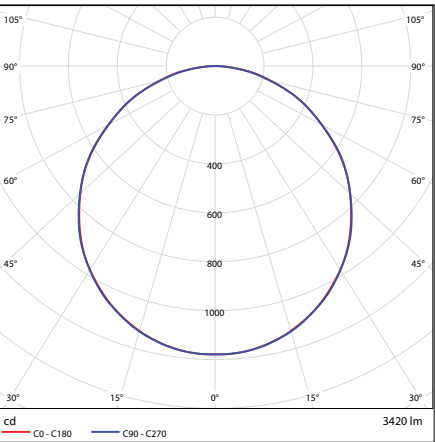
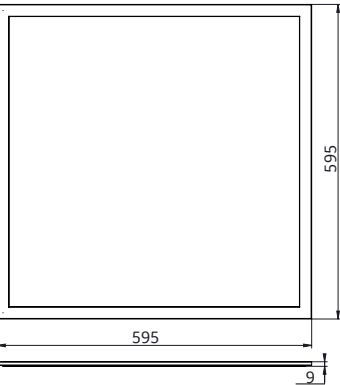
Edgelit Panel Value

Our new Edgelit panel range is ultrathin and very light, so it is very easy to store and install. The improved diffuser structure creates an even light distribution. Our LED panel is an ideal solution for offices, corridors or any space where an efficient and reliable fixture is needed. Thanks to our wide range of accessories, the product can be mounted in different ways: recessed, suspended or surface mount.

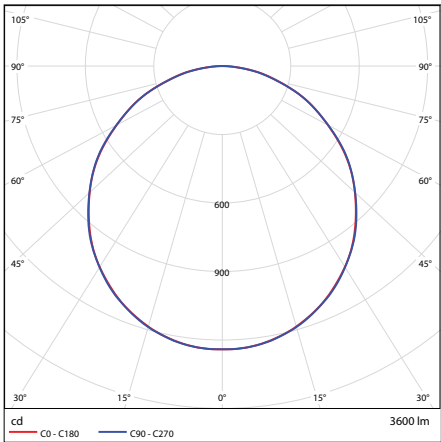


Benefits

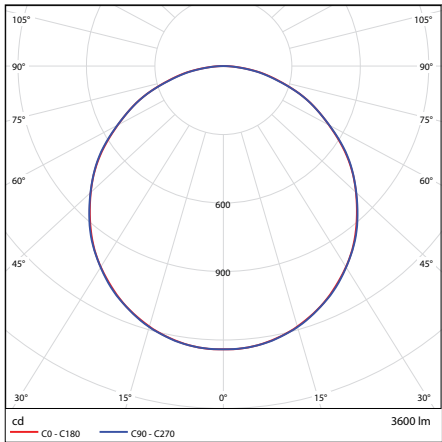
- 36W
- Up to 100lm/W efficiency
- Up to 3600 lm luminous flux
- CCT: 3000K, 4000K, 6500K
- 30.000hours at L70/B50
- Even light distribution
- Easy installation
- Reliable Samsung chips
- Light weight



3000K

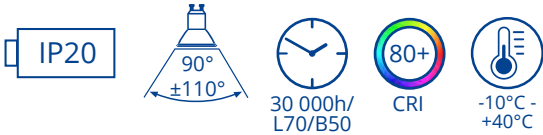


4000K



6500K

Edgelit Panel Value



Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	SCDM	UGR	Dimensions (mm)
Edgelit Panel Value - Static driver								
Tung Panel E 2x2 S 36W 830 19	93118673	36	3 450	95	3000	≤4	<19	595x595x9
Tung Panel E 2x2 S 36W 840 19	93118674	36	3 600	100	4000	≤4	<19	595x595x9
Tung Panel E 2x2 S 36W 865 19	93118675	36	3 600	100	6500	≤4	<19	595x595x9
Tung Panel E 1x4 S 36W 830 19	93118706	36	3 450	95	3000	≤4	<19	295x1195x9
Tung Panel E 1x4 S 36W 840 19	93118707	36	3 600	100	4000	≤4	<19	295x1195x9
Tung Panel E 2x2 S 36W 830	93117483	36	3 450	95	3000	≤4	<22	595x595x9
Tung Panel E 2x2 S 36W 840	93117484	36	3 600	100	4000	≤4	<22	595x595x9
Tung Panel E 2x2 S 36W 865	93117485	36	3 600	100	6500	≤4	<22	595x595x9
Edgelit Panel Value - Accessories								
Surface mounting Kit 2x2 R9003 P	93117380							
Surface mounting Kit 1x4 R9003 P	93117381							
Surface mounting Kit 2x2 DS R9003 P	93117658							
Surface mounting Kit 1x4 DS R9003 P	93117659							
SUSPENSION KIT 2X2 LED PANEL P	93118779							
Edgelit LED Panel Safety Kit P	93118780							
SUSPENSION KIT 1X4 LED PANEL P	93118781							
Plasterboard Mount KIT for Edgelit P	93118782							

The whole range is compatible with our Emergency Converter Kits: SKU 93100237 and 93100238.



LED INDOOR SOLUTION

Downlighters



TUDOLIO

Tungsram Tudolio range offers flexible options to design the right lighting for the given indoor space. Beyond the basic options, the designer has the opportunity to adjust almost all the parameters, like the colour temperature, colour rendering or control system. Create your space with 21 century lighting fixtures.



Benefits

- Excellent color reproduction with CRI92
- Selectable color temperature: 3000K, 4000K, 5700K
- Long lifetime, 50.000 hours
- Esthetical design
- Versatile mounting options, pendant, recessed, surface mount
- High efficiency, up to 122 lm/W

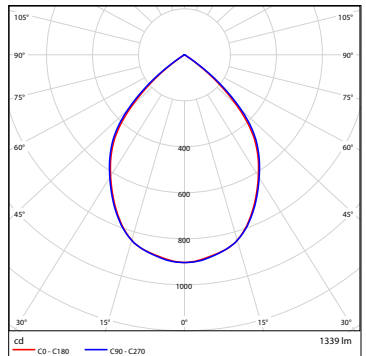
Recessed



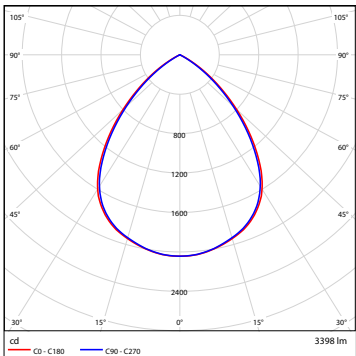
Surface mount



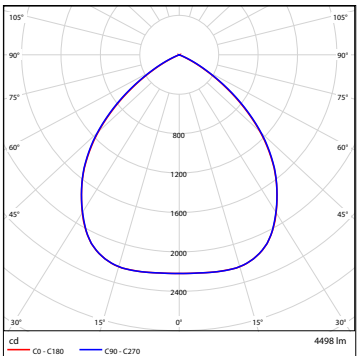
Pendant



13W

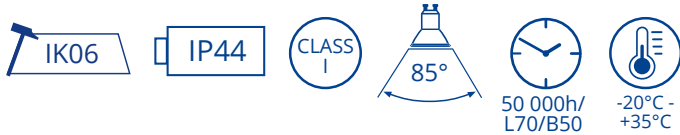


30W



37W

TUDOLIO



Product Description	Product Code	Watt-age (W)	Lumen (lm)	System Efficiency (lm/W)	Dimensions (mm)	Control	Weight (kg)	CRI (Ra)	EEC	Diffuser Type	Application	T°K (K)
TUDOLIO - Static and DALI driver *												
TUD 13W 80 S 100 WH RE SP S85	93117439	13	1 340	103	Ø 124 x 84	static	0.6	80+	A++	Specular	Recessed	85°
TUD 13W 80 D 100 WH RE SP S85	93117440	13	1 340	103	Ø 124 x 84	DALI	0.6	80+	A++	Specular	Recessed	85°
TUD 30W 80 S 200 WH RE SP S85	93117441	30	3 400	113	Ø 221 x 109	static	1.3	80+	A++	Specular	Recessed	85°
TUD 30W 80 D 200 WH RE SP S85	93117442	30	3 400	113	Ø 221 x 109	DALI	1.2	80+	A++	Specular	Recessed	85°
TUD 37W 80 S 300 WH RE SP S85	93117443	37	4 500	122	Ø 320 x 113	static	1.8	80+	A++	Specular	Recessed	85°
TUD 37W 80 D 300 WH RE SP S85	93117444	37	4 500	122	Ø 320 x 113	DALI	1.7	80+	A++	Specular	Recessed	85°
TUD 13W 80 S 100 WH SM SP S85	93117445	13	1 340	103	Ø 106 x 152	static	0.9	80+	A++	Specular	Surface mount	85°
TUD 13W 80 S 100 BL SM SP S85	93117456	13	1 340	103	Ø 106 x 152	static	0.9	80+	A++	Specular	Surface mount	85°
TUD 30W 80 S 200 WH SM SP S85	93117457	30	3 400	113	Ø 203 x 173	static	2.4	80+	A++	Specular	Surface mount	85°
TUD 30W 80 D 200 WH SM SP S85	93117458	30	3 400	113	Ø 203 x 173	DALI	2.4	80+	A++	Specular	Surface mount	85°
TUD 13W 80 S 100 WH PE SP S85	93117459	13	1 340	103	Ø 114 x 414	static	1.3	80+	A++	Specular	Pendant	85°
TUD 13W 80 S 100 BL PE SP S85	93117460	13	1 340	103	Ø 114 x 414	static	1.3	80+	A++	Specular	Pendant	85°
TUD 30W 80 S 200 WH PE SP S85	93117461	30	3 400	113	Ø 203 x 436	static	2.7	80+	A++	Specular	Pendant	85°
TUD 30W 80 D 200 WH PE SP S85	93117462	30	3 400	113	Ø 203 x 436	DALI	2.7	80+	A++	Specular	Pendant	85°
TUD 13W 90 S 100 WH RE SP S85	93117463	13	1 100	85	Ø 124 x 84	static	0.6	92	A	Specular	Recessed	85°
TUD 13W 90 D 100 WH RE SP S85	93117464	13	1 100	85	Ø 124 x 84	DALI	0.6	92	A	Specular	Recessed	85°
TUD 30W 90 S 200 WH RE SP S85	93117465	30	2 800	92	Ø 221 x 109	static	1.3	92	A	Specular	Recessed	85°
TUD 30W 90 D 200 WH RE SP S85	93117466	30	2 800	92	Ø 221 x 109	DALI	1.2	92	A	Specular	Recessed	85°
TUD 37W 90 S 300 WH RE SP S85	93117467	37	3 650	99	Ø 320 x 113	static	1.8	92	A	Specular	Recessed	85°
TUD 37W 90 D 300 WH RE SP S85	93117468	37	3 650	99	Ø 320 x 113	DALI	1.7	92	A	Specular	Recessed	85°
TUD 13W 90 S 100 WH SM SP S85	93117469	13	1 100	85	Ø 106 x 152	static	0.9	92	A	Specular	Surface mount	85°
TUD 13W 90 S 100 BL SM SP S85	93117470	13	1 100	85	Ø 106 x 152	static	0.9	92	A	Specular	Surface mount	85°
TUD 30W 90 S 200 WH SM SP S85	93117471	30	2 800	93	Ø 203 x 173	static	2.4	92	A	Specular	Surface mount	85°
TUD 30W 90 D 200 WH SM SP S85	93117472	30	2 800	93	Ø 203 x 173	DALI	2.4	92	A	Specular	Surface mount	85°
TUD 13W 90 S 100 WH PE SP S85	93117473	13	1 100	85	Ø 114 x 414	static	1.3	92	A	Specular	Pendant	85°
TUD 13W 90 S 100 BL PE SP S85	93117474	13	1 100	85	Ø 114 x 414	static	1.3	92	A	Specular	Pendant	85°
TUD 30W 90 S 200 WH PE SP S85	93117475	30	2 800	93	Ø 203 x 436	static	2.7	92	A	Specular	Pendant	85°
TUD 30W 90 D 200 WH PE SP S85	93117476	30	2 800	93	Ø 203 x 436	DALI	2.7	92	A	Specular	Pendant	85°

All the products have selectable colour temperatures - 3000K, 4000K, 5700K



LED INDOOR SOLUTION
Downlighters



COB Downlight UGR<19 IP54

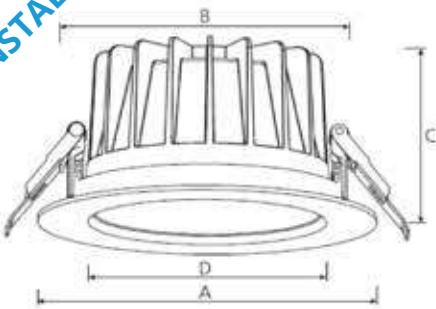
The new Tungsram IP54 Downlight range with traditional deep reflector (UGR<19) provides the perfect combination of high-efficiency, comfortable lighting and design, without compromising on light performance. Due to the interchangeable optics (24°, 36°, 55° beam angle) it offers a wide choice of options for creating the desired ambience. IP54 range is designed for general lighting applications in offices, supermarkets, shops, schools, hotels, etc. It is also widely used for public areas, such as stairways, lobbies, and receptions.



Benefits

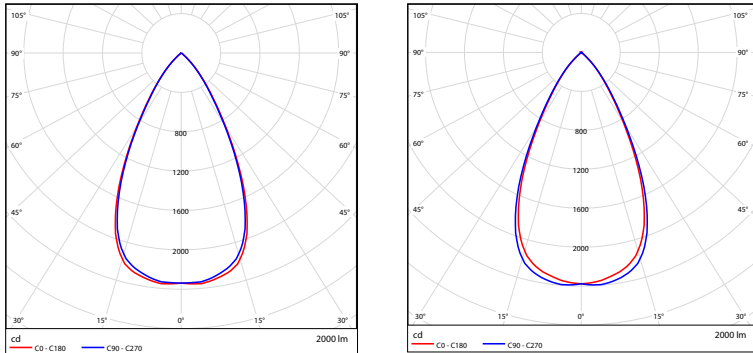
- High luminous efficiency
- High energy savings up to 70% when compared with conventional CFL fixtures
- Easy installation and maintenance
- Affordable solution for retrofit or new installations
- Low glare rate, UGR<19
- 80 CRI+ (90 CRI optional)

EASY
INSTALLATION

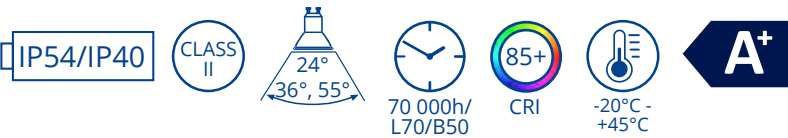


Description	A	B	C	D	Size (mm)	Weight (kg)
LED DLR G1 18Wxxx	172	145	90	127	Ø172x90	0.840
LED DLR G1 23Wxxx	172	145	90	127	Ø172x90	0.840
LED DLR G1 33Wxxx	228	195	99	176	Ø228x99	1.305

Up to 3400lm



COB Downlight UGR<19 IP54



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
COB Downlight UGR<19 IP54 - Static driver								
LED DLR G1 10W 840 S 36D G	93117198	10	1 050	4000	54/40	105	Ø95x54	0,2
LED DLR G1 10W 840 S 36D W	93117197	10	1 050	4000	54/40	105	Ø95x54	0,2
LED DLR G1 18W 830 S 55D W	93113196	18	2 000	3000	54/40	111	Ø172x90	0,7
LED DLR G1 18W 840 S 55D W	93113197	18	2 000	4000	54/40	111	Ø172x90	0,7
LED DLR G1 23W 830 S 55D W	93113198	23	2 500	3000	54/40	109	Ø172x90	0,7
LED DLR G1 23W 840 S 55D W	93113199	23	2 500	4000	54/40	109	Ø172x90	0,7
LED DLR G1 33W 830 S 55D W	93113200	33	3 400	3000	54/40	103	Ø228x99	1,1
LED DLR G1 33W 840 S 55D W	93113201	33	3 400	4000	54/40	103	Ø228x99	1,1
COB Downlight UGR<19 IP54 Accessories								
DLR Lens 18W/23W 24D 10PC	93114811	-	-	-	-	-	-	-
DLR Lens 18W/23W 36D 10PC	93114812	-	-	-	-	-	-	-
DLR Lens 18W/23W 55D 10PC	93114813	-	-	-	-	-	-	-
DLR Lens 33W 24D 10PC	93114814	-	-	-	-	-	-	-
DLR Lens 33W 36D 10PC	93114815	-	-	-	-	-	-	-
DLR Lens 33W 55D 10PC	93114986	-	-	-	-	-	-	-
DLR Reflector 18W/23W specular	93114987	-	-	-	-	-	-	-
DLR Reflector 33W specular	93114988	-	-	-	-	-	-	-



LED INDOOR SOLUTION

Downlighters



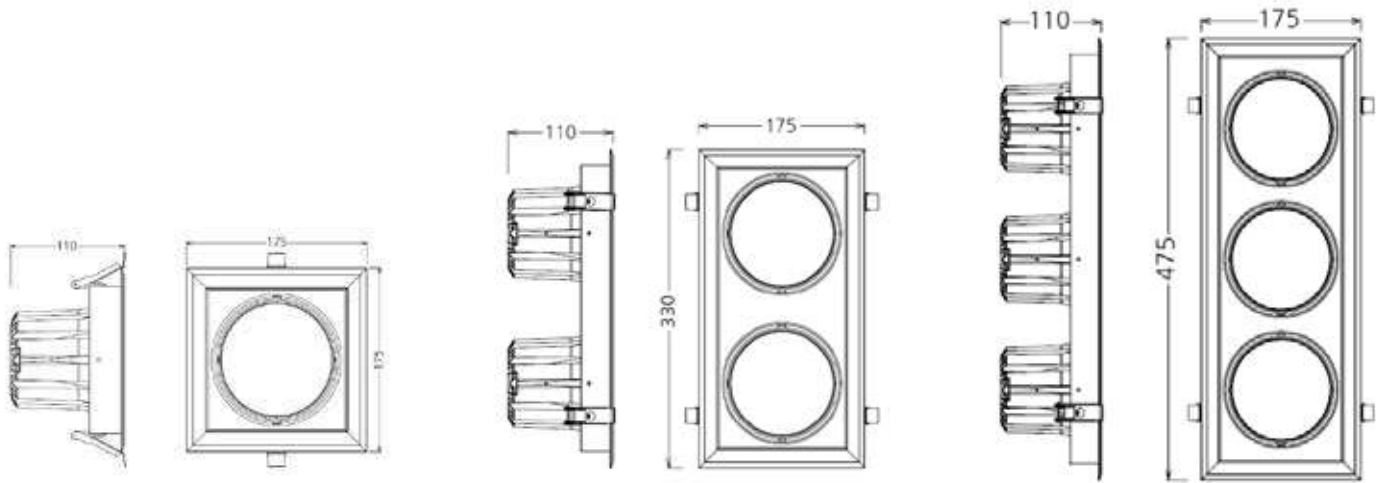
COB Downlight Multigimbal

The Multigimbal luminaire is the ideal choice for commercial or retail applications. The luminaire offers a mixture of functionality and performance. The unique modular design allows for easy replacement of the module and therefore offers a low maintenance solution. The 340° rotational angle allows you to tailor the light to where you need it, with the options to create general lighting or accent lighting.

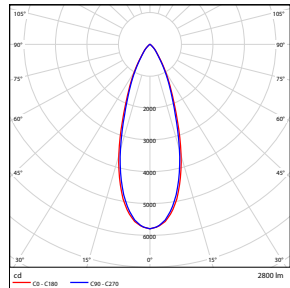


Benefits

- Up to 70% energy saving compared to standard CMH
- Adjustable and rotary
- No UV/IR light
- Static remote driver (1 per light engine/head)
- Aluminium housing
- Precise light distribution
- Replaceable light engine / head
- Environmentally friendly, without Mercury or any other hazardous substances



Up to 8400lm

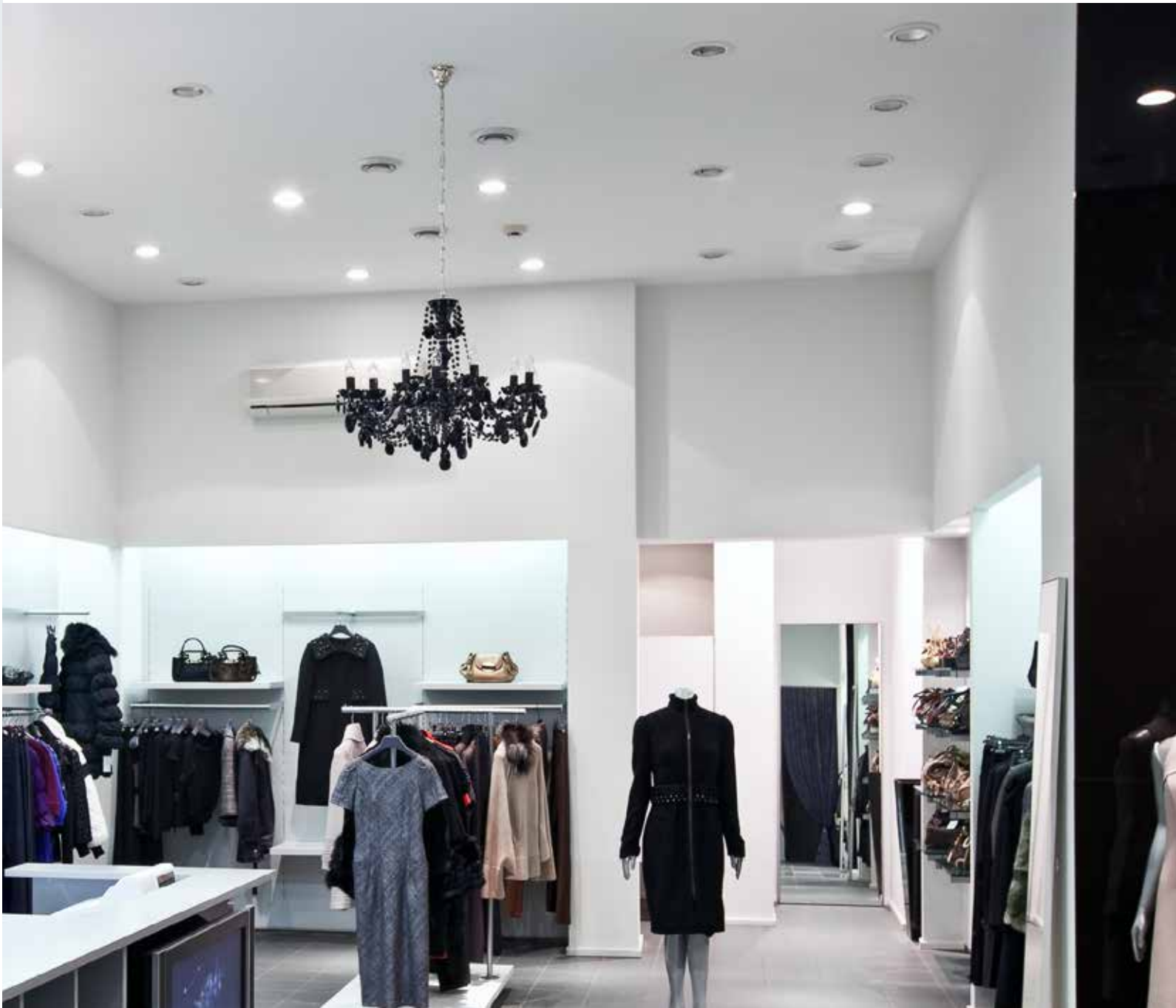


36°

COB Downlight Multigimbal



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Beam angle (°)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
COB Downlight Multigimbal - Static driver								
LED Gimbal 1x30W 830 S 36D	93113180	30	2 800	3000	15	93	175x175x110	1,25
LED Gimbal 1x30W 840 S 36D	93113183	30	2 800	4000	15	93	175x175x110	1,25
LED Gimbal 2x30W 830 S 36D	93113186	60	5 600	3000	24	93	330x175x110	2,25
LED Gimbal 2x30W 840 S 36D	93113189	60	5 600	4000	24	93	330x175x110	2,25
LED Gimbal 3x30W 830 S 36D	93113192	90	8 400	3000	36	93	475x175x110	3,2
LED Gimbal 3x30W 840 S 36D	93113195	90	8 400	4000	36	93	475x175x110	3,2



LED INDOOR SOLUTION

Downlighters



COB Downlight Adjustable / Scoop

Tungsrām COB downlighter is uniquely designed with reflector and Citizen high power LED chip. The die-cast aluminium profile provides excellent thermal dissipation. With the wide angle of the adjustable lighting direction, you can create all possible lighting effects.

COB Downlight Adjustable / Scoop

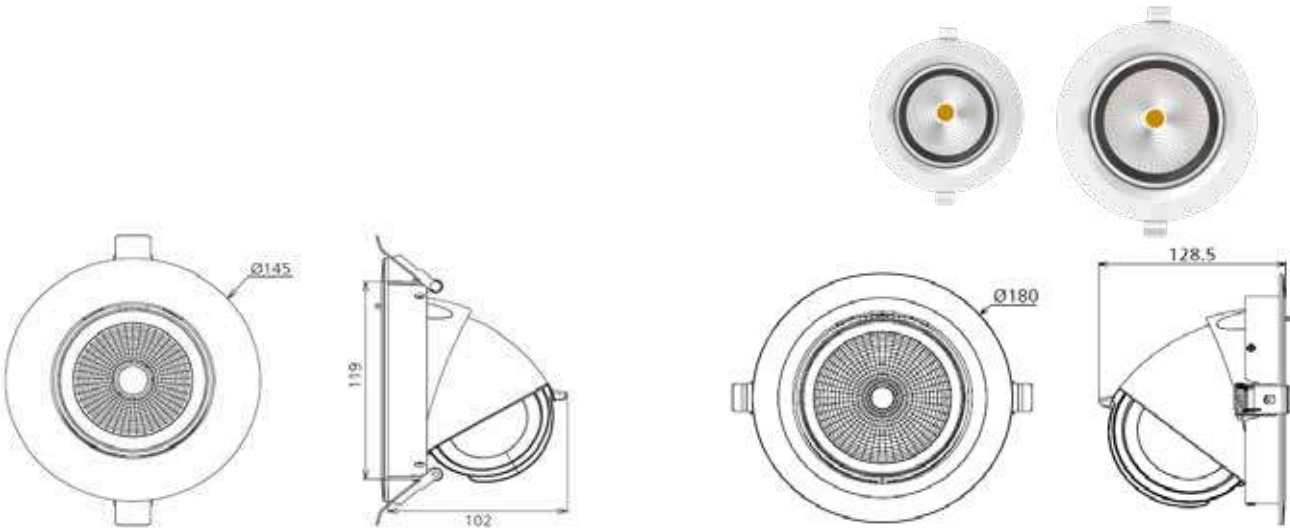


Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Beam angle (°)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
COB Downlight Adjustable / Scoop - Static driver								
LED Scoop 20W 830 S 40D	93114877	20	2 100	3000	40	105	Ø145x102	1.07
LED Scoop 20W 830 S 50D	93114878	20	2 100	3000	50	105	Ø145x102	1.07
LED Scoop 20W 840 S 40D	93114880	20	2 200	4000	40	110	Ø145x102	1.07
LED Scoop 20W 840 S 50D	93114881	20	2 200	4000	50	110	Ø145x102	1.07
LED Scoop 33W 830 S 40D	93114427	33	3 400	3000	40	103	Ø180x125	1.07
LED Scoop 33W 830 S 50D	93114428	33	3 400	3000	50	103	Ø180x125	1.07
LED Scoop 33W 840 S 40D	93114430	33	3 500	4000	40	106	Ø180x125	1.07
LED Scoop 33W 840 S 50D	93114431	33	3 500	4000	50	106	Ø180x125	1.07

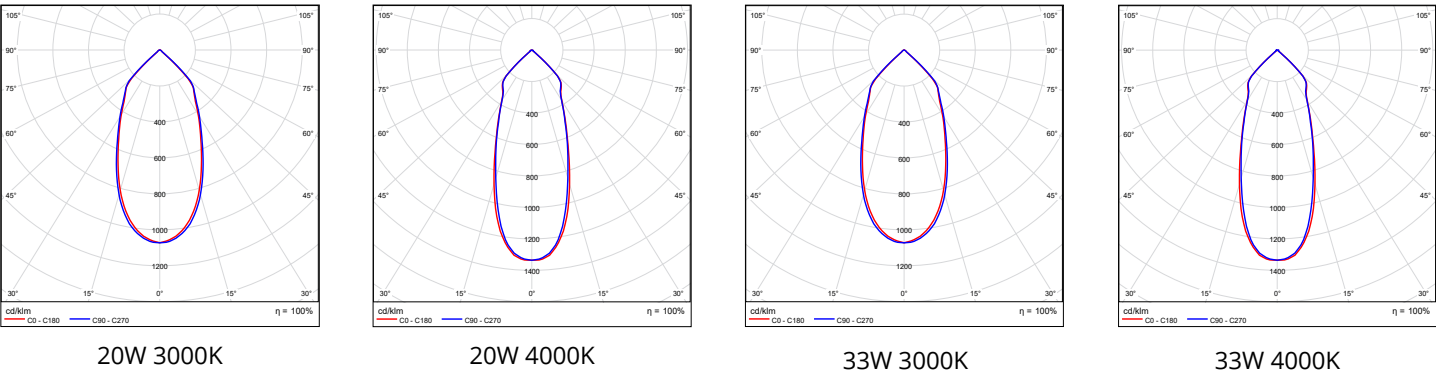


Benefits

- Up to 50% energy saving compared to standard HID
- Non-dimmable remote driver with plug and play connection
- No UV/IR light
- White finishing
- Adjustable tilt angle from -15° to 35°
- Die-cast aluminium body and heatsink for good thermal management
- LED lifespan L70B50 50.000 hours at 25°C



40 degree optics



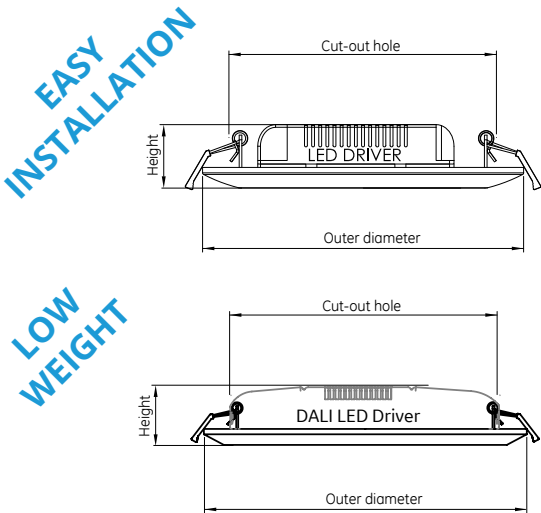
Slim Downlight Premium

Tungsram Slim Downlight Premium products are ultra-thin, recessed luminaires, designed to directly replace CFL lamps. Available in different sizes and colour-temperature options. With this extra slim range, lighting can be easily upgraded in offices, commercial buildings or retail outlets. An excellent choice for switching to LED and benefiting from their energy saving and long lifetime.

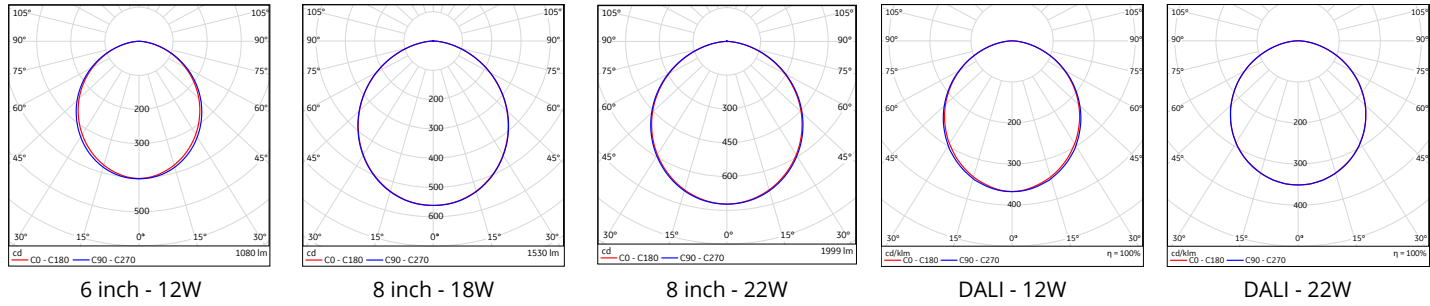


Benefits

- Direct replacement for compact fluorescent lamp downlights
- Up to 54% energy saving compared to CFL lamps
- Affordable solution for retrofit or new installations
- Easy installation
- UV-free & IR-free
- Product height with driver (36mm) fits more ceiling types



Up to 2000lm



Slim Downlight Premium

IP40/IP20 CLASS II 110°C 50 000h/ L80/B50 CRI 80+ -10°C - +40°C A+

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Slim Downlight Premium - Static driver								
LED DLR SLIM P1 TU6 IP40 12W 830 SST	93108085	12	1 080	3000	20	90	Ø180x36	0.31
LED DLR SLIM P1 TU6 IP40 12W 840 SST	93108086	12	1 080	4000	20	90	Ø180x36	0.31
LED DLR SLIM P1 TU8 IP40 18W 830 SST	93108087	18	1 530	3000	20	85	Ø240x36	0.52
LED DLR SLIM P1 TU8 IP40 18W 840 SST	93108088	18	1 620	4000	20	90	Ø240x36	0.52
LED DLR SLIM P1 TU8 IP40 22W 830 SST	93108090	22	2 000	3000	20	91	Ø240x36	0.52
LED DLR SLIM P1 TU8 IP40 22W 840 SST	93108091	22	2 000	4000	20	91	Ø240x36	0.52
Slim Downlight Premium - DALI driver								
LED DLR SLIM P1 TU6 IP40 12W 830 DST	93108096	12	1 080	3000	40/20	90	Ø180x43	0.44
LED DLR SLIM P1 TU6 IP40 12W 840 DST	93108097	12	1 080	4000	40/20	90	Ø180x43	0.44
LED DLR SLIM P1 TU8 IP40 22W 830 DST	93108098	22	2 000	3000	40/20	91	Ø240x43	0.63
LED DLR SLIM P1 TU8 IP40 22W 840 DST	93108099	22	2 000	4000	40/20	91	Ø240x43	0.63



LED INDOOR SOLUTION

Downlighters



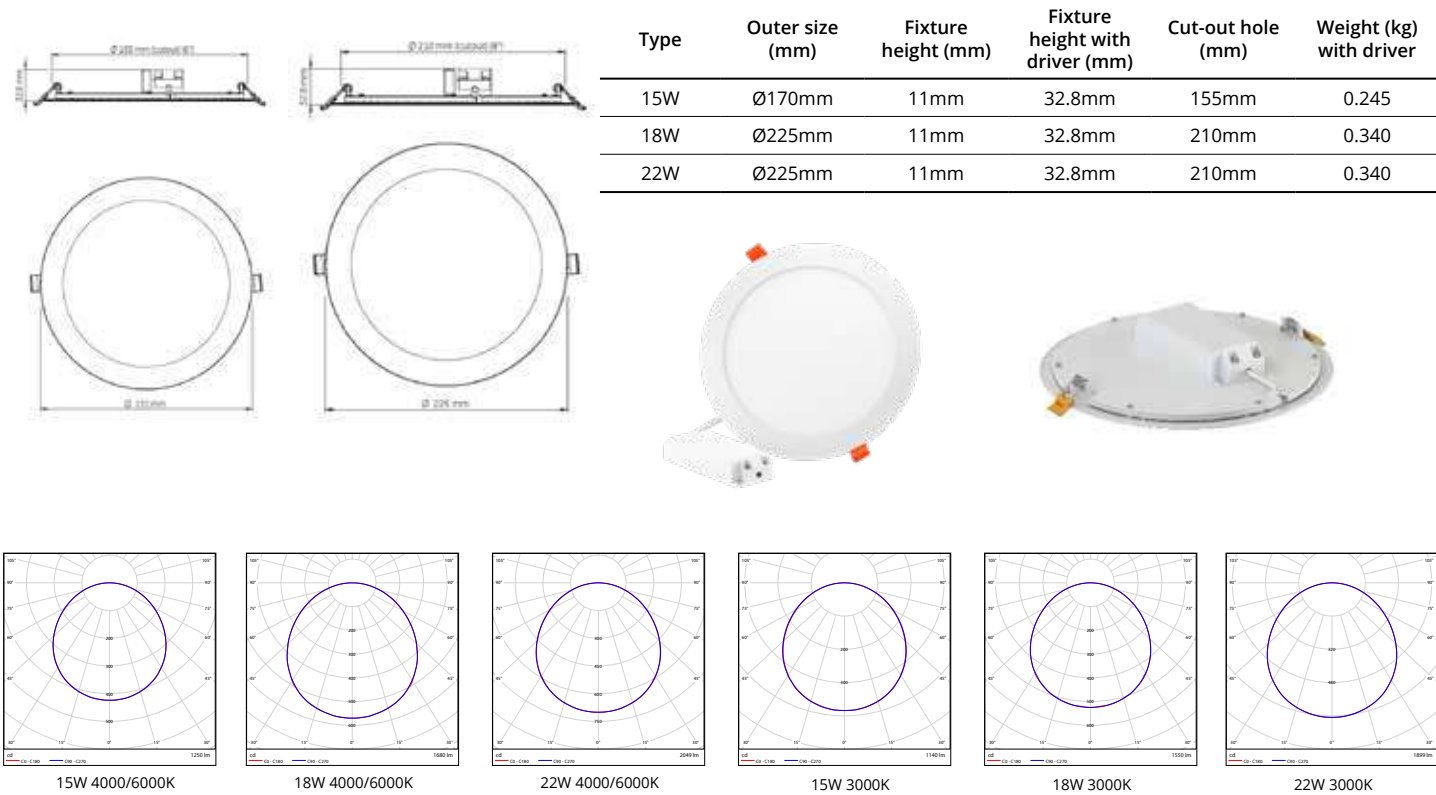
Slim Downlight Value

The Slim Downlight Start range of recessed luminaires designed to replace traditional CFL downlighters directly and affordably. The products' slim design fits in narrow spaces but can be used in any location where 6 inch or 8 inch downlighters are needed.

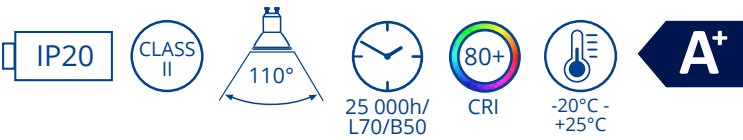


Benefits

- Functional design
- One-to-one replacement for conventional luminaires
- Up to 60% energy saving compared to CFL solutions
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Shallow installation depth
- Wire spring leaf for secure installation



Slim Downlight Value



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Slim Downlight Value - Static driver							
LED DLR Slim S1 TU6 IP20 15W 830 SST	93109204	15	1 140	3000	76	Ø170x11	0.25
LED DLR Slim S1 TU6 IP20 15W 840 SST	93109205	15	1 250	4000	83	Ø170x11	0.25
LED DLR Slim S1 TU8 IP20 18W 830 SST	93109208	18	1 550	3000	86	Ø225x11	0.34
LED DLR Slim S1 TU8 IP20 18W 840 SST	93109209	18	1 680	4000	93	Ø225x11	0.34
LED DLR Slim S1 TU8 IP20 22W 830 SST	93109212	22	1 900	3000	86	Ø225x11	0.34
LED DLR Slim S1 TU8 IP20 22W 840 SST	93109213	22	2 050	4000	93	Ø225x11	0.34



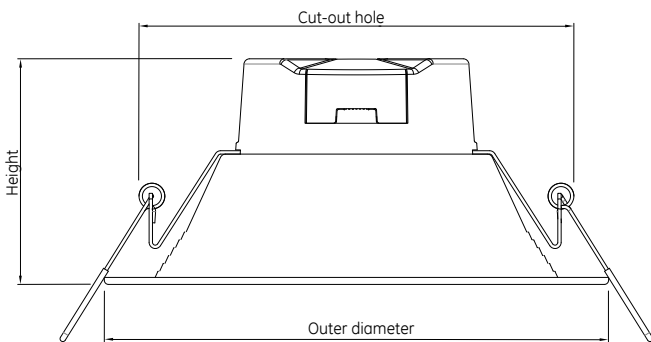
Diffuser Downlight IP20

Tungsram introduces the new standard range of LED Diffuser Downlighters. A selection of sizes and colour temperature options will meet customer requirements. With this new range, lighting can be upgraded in key environments such as offices, commercial buildings, retail, and hospitality.

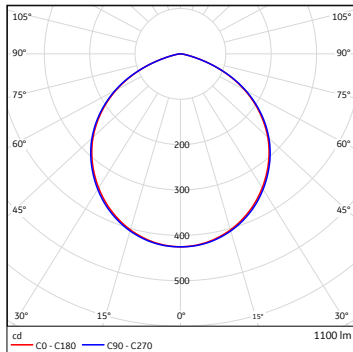


Benefits

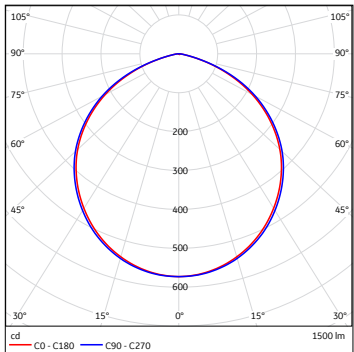
- Direct replacement for compact fluorescent lamp downlights
- Over 55%+ energy saving compared to luminaires that use CFL PI lamps
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Easy installation with fast connection
- Healthy - UV-free & IR-free



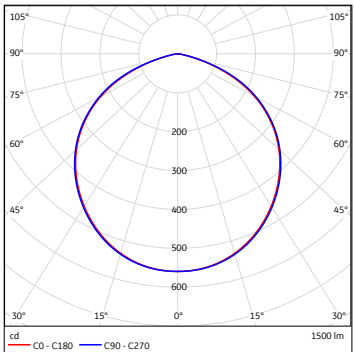
Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)	Weight (g)
6"/148 mm	180+/- 2	81	155-160	320
6" accessory ring	210		150-190	
8" /200 mm	240+/-2	93	200-205	480



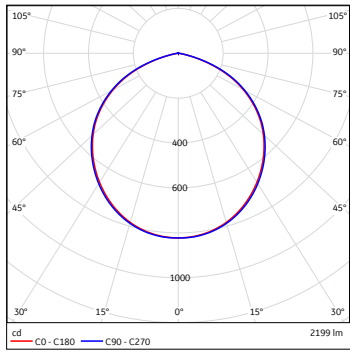
6 inch - 11W



6 inch - 15W



8 inch - 15W



8 inch - 22W

Diffuser Downlight IP20



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Diffuser Downlight IP20 - Static driver							
LED DLR Diff P1 TU6 IP20 11W 830 SST	93108076	11	1 100	3000	100	Ø180x81	0.32
LED DLR Diff P1 TU6 IP20 11W 840 SST	93107533	11	1 100	4000	100	Ø180x81	0.32
LED DLR Diff P1 TU6 IP20 15W 830 SST	93108077	15	1 500	3000	100	Ø180x81	0.32
LED DLR Diff P1 TU6 IP20 15W 840 SST	93107534	15	1 500	4000	100	Ø180x81	0.32
LED DLR Diff P1 TU8 IP20 15W 830 SST	93108078	15	1 500	3000	100	Ø240x93	0.48
LED DLR Diff P1 TU8 IP20 15W 840 SST	93107535	15	1 500	4000	100	Ø240x93	0.48
LED DLR Diff P1 TU8 IP20 22W 830 SST	93108079	22	2 200	3000	100	Ø240x93	0.5
LED DLR Diff P1 TU8 IP20 22W 840 SST	93107536	22	2 200	4000	100	Ø240x93	0.5
LED DLR Diff P1 TU8 IP20 22W 865 SST	TBD	22	2 200	6500	100	Ø240x93	0.5



LED INDOOR SOLUTION

Downlighters



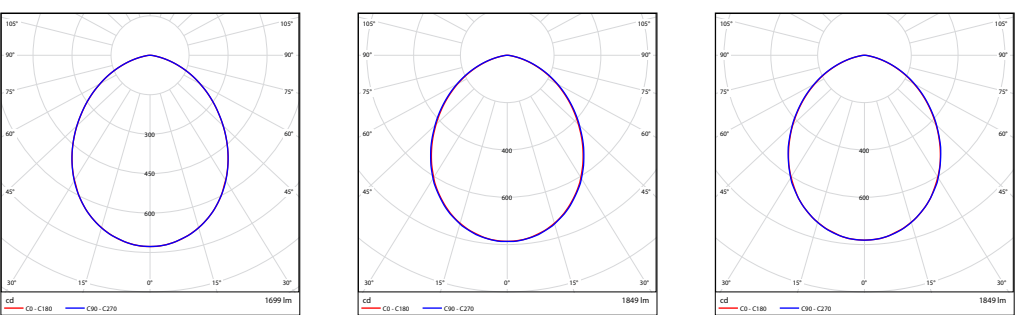
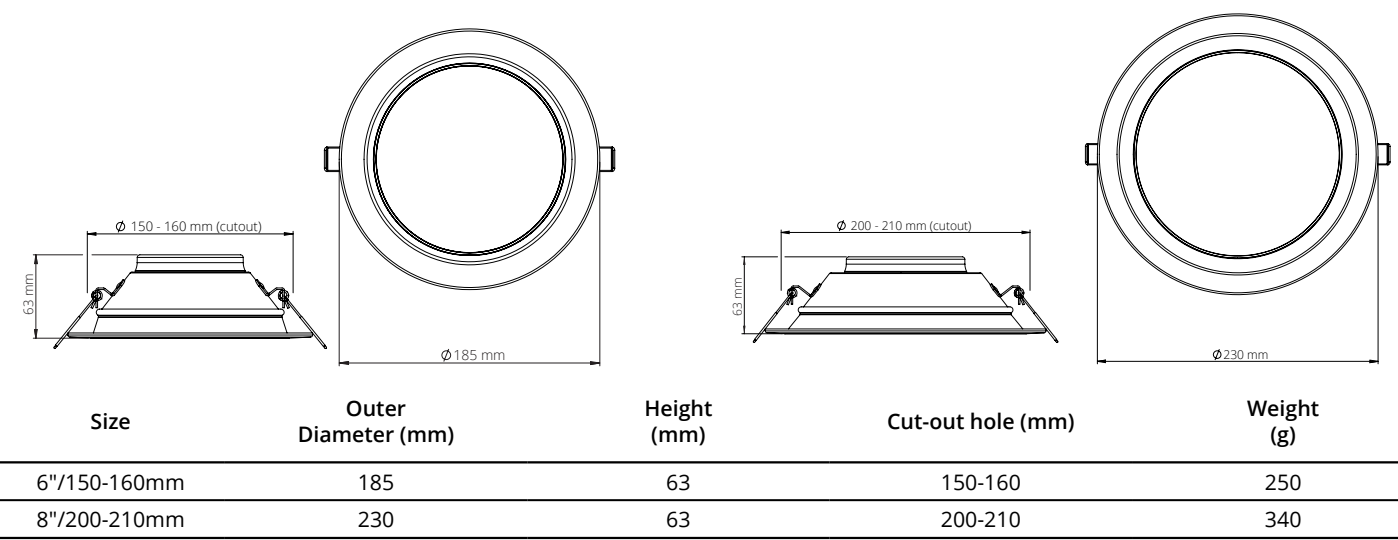
Diffuser Downlight IP44

Tungsram introduces the IP44 LED Diffuser Downlighters. A selection of sizes and colour temperature options will meet customer requirements. With this new range, lighting can be upgraded in key environments such as offices, commercial buildings, retail, and hospitality.



Benefits

- Direct replacement for compact fluorescent lamp downlights
- Over 60%+ energy saving compared to luminaires that use CFL PI lamps
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Easy installation with fast connection
- Healthy - UV-free & IR-free



Diffuser Downlight IP44



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Diffuser Downlight IP44 - Static driver							
LED Downlight D1 TU 6 IP44 12W 830 S	93119563	12	1 140	3000	95	Ø185x63	0.25
LED Downlight D1 TU 6 IP44 12W 840 S	93119562	12	1 260	3000	105	Ø185x63	0.25
LED Downlight D1 TU 6 IP44 18W 830 S	93109216	18	1 700	3000	94	Ø185x63	0.25
LED Downlight D1 TU 6 IP44 18W 840 S	93109217	18	1 850	4000	103	Ø185x63	0.25
LED Downlight D1 TU 6 IP44 18W 860 S	93109218	18	1 850	6000	103	Ø185x63	0.25
LED Downlight D1 TU 8 IP44 25W 830 S	93109220	25	2 500	3000	100	Ø230x63	0.38
LED Downlight D1 TU 8 IP44 25W 840 S	93109221	25	2 800	4000	112	Ø230x63	0.38
LED Downlight D1 TU 8 IP44 25W 860 S	93109222	25	2 800	6000	112	Ø230x63	0.38



LED INDOOR SOLUTION

Downlighters



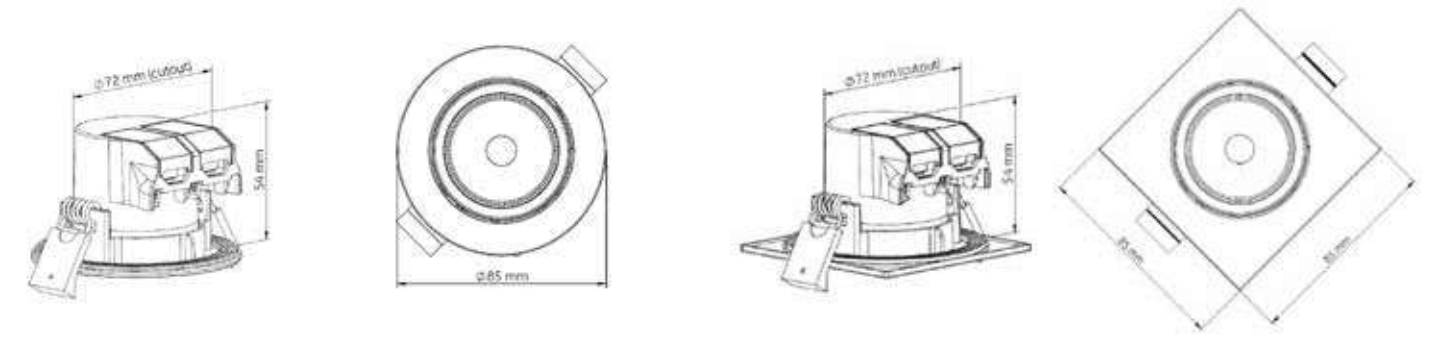
Recessed Spotlight 5W

The Tungsram Recessed Spotlight G1 5W range has a functional and minimalistic design with fixed and adjustable versions. These LED Spotlights are ideal for small areas to make your ceilings seem higher, or when you are looking for directional lighting. Never have the installations easier and quicker with these products. The Recessed Spotlight G1 5W range offers all the benefits of LED lighting to our customers - fresh light quality, reduced energy consumption, and less maintenance.

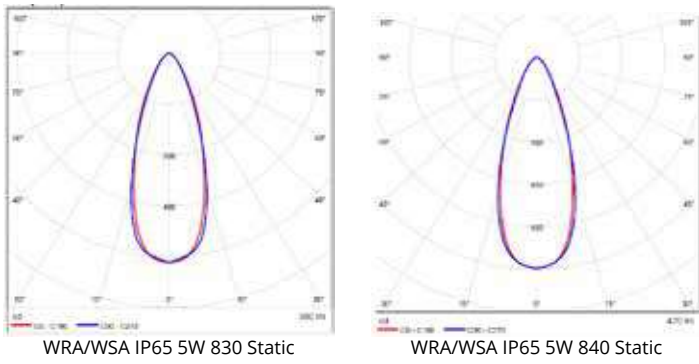


Benefits

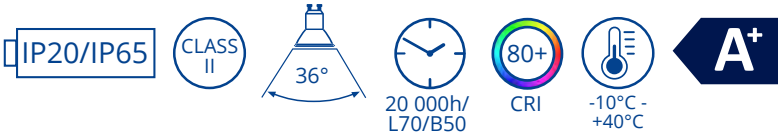
- Ideal replacement for Halogen spotlights
- High luminous efficacy
- 75% energy saving compared to 35W Halogen MR16
- Tilting head to adjust light beam where needed +/-13°
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Healthy - UV-free & IR-free



Type	Shape	Fix / Adjustable	Size	Outer size (mm)	Height (mm)	Cut-out hole (mm)	Weight (kg) with driver
xxxWRAxxx	Round	Adjustable	Ø85*54 mm	Ø85mm	54mm	72mm	0.117
xxxWRFxxx	Round	Fix	Ø85*54 mm	Ø85mm	54mm	72mm	0.110
xxxWSAxxx	Square	Adjustable	85*85*54 mm	85*85mm	54mm	72mm	0.126
xxxWSFxxx	Square	Fix	85*85*54 mm	85*85mm	54mm	72mm	0.118



Recessed Spotlight 5W



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Recessed Spotlight G1 5W - Static driver								
LED Spotlight G1 TU WRA IP20 5W 830 S	93100364	5	380	3000	20	76	Ø85x54	0.117
LED Spotlight G1 TU WRA IP20 5W 840 S	93100526	5	420	4000	20	84	Ø85x54	0.117
LED Spotlight G1 TU WRF IP65 5W 830 S	93100528	5	380	3000	65	76	Ø85x54	0.11
LED Spotlight G1 TU WRF IP65 5W 840 S	93100530	5	420	4000	65	84	Ø85x54	0.11
LED Spotlight G1 TU WSA IP20 5W 830 S	93100532	5	380	3000	20	76	85x85x54	0.126
LED Spotlight G1 TU WSA IP20 5W 840 S	93100534	5	420	4000	20	84	85x85x54	0.126
LED Spotlight G1 TU WSF IP65 5W 830 S	93100536	5	380	3000	65	76	85x85x54	0.118
LED Spotlight G1 TU WSF IP65 5W 840 S	93100538	5	420	4000	65	84	85x85x54	0.118



LED INDOOR SOLUTION

Downlighters



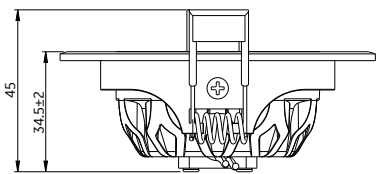
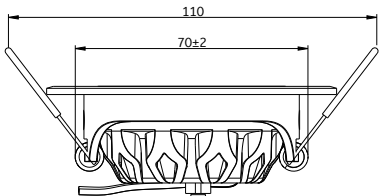
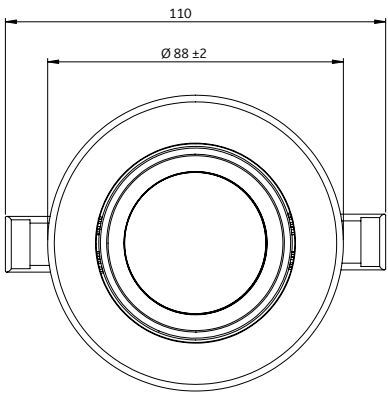
Recessed Spotlight 6W

The Tungsram Recessed Spotlight G1 6W range is ideal for small areas or when you are looking for directional lighting. These LED fixtures are designed to offer a quick replacement option for standard halogen spots.

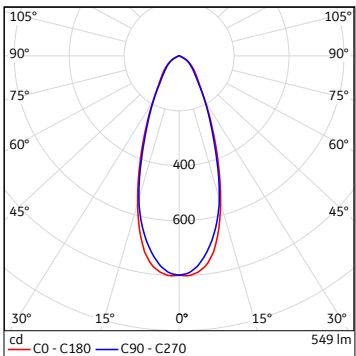


Benefits

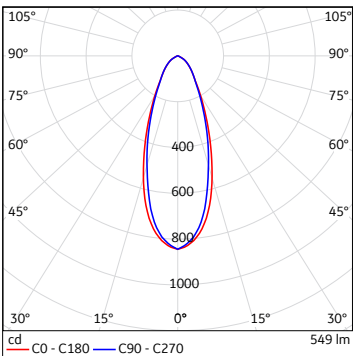
- Ideal replacement for Halogen spotlights
- 88% energy saving compared to 50W Halogen MR16
- Tilting head to adjust light beam where needed
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Healthy - UV-free & IR-free
- Colour rendering index: CRI 80+



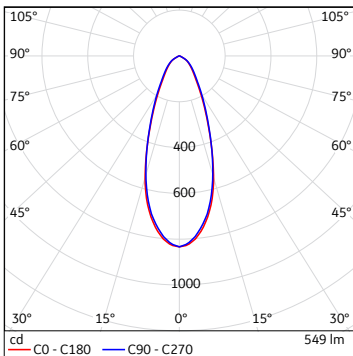
Size	Outer Diameter (mm)	Height (mm)	Cut-out hole (mm)	Weight (kg) (with driver)	Weight (kg) (without driver)
Ø88.*34.5	88 +/- 2	34.5 +/- 2	70 +/- 2	0,17	0,13



6W 3000K

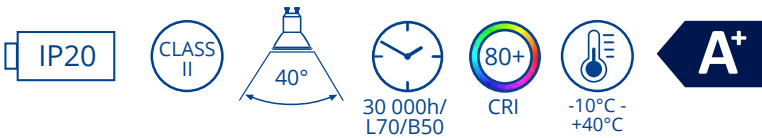


6W 4000K



6W 6500K

Recessed Spotlight 6W



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	T°K (K)
Recessed Spotlight G1 6W - Static driver								
LED Spotlight G1 TU WRA IP20 6W 830 S	93107544	6	550	3000	90	Ø88x34.5	0.17	40
LED Spotlight G1 TU WRA IP20 6W 840 S	93107545	6	550	4000	90	Ø88x34.5	0.17	40
LED Spotlight G1 TU WRA IP20 6W 865 S	93107546	6	550	6500	90	Ø88x34.5	0.17	40



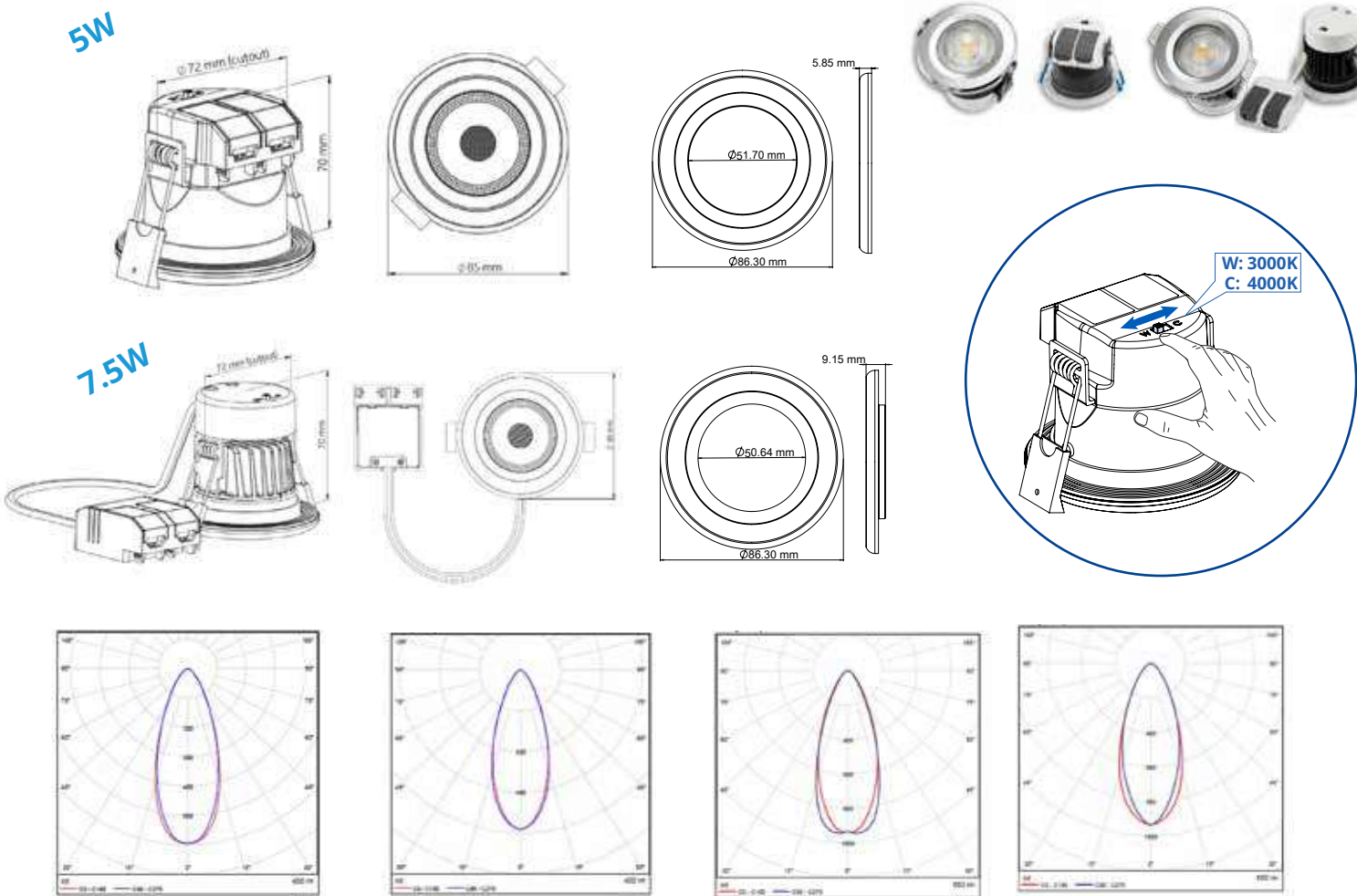
Fireproof Downlight

Tungsram introduces a new range of Fireproof Downlight. The fit of our Fireproof Downlight is almost flush with the ceiling, making the downlight look more aesthetically-pleasing, whilst we offer three different color of bezels, making the luminaire more discreet in your interior surface. Special fire-rated downlights have a rating up to IP65, making them both water and dust resistant. This range offers all the benefits of LED lighting to the customers - fresh light quality, longer service lifetime, reduced energy consumption, and less maintenance.

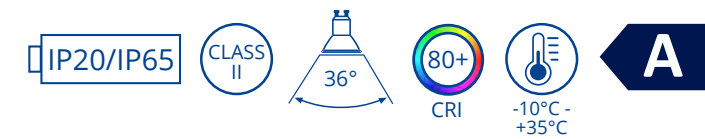


Benefits

- Up to 80% energy saving compared to Halogen solutions
- Ideal replacement for Halogen spotlights
- High luminous efficacy up to 85 lm/w
- Tilting head to adjust light beam where needed +/- 13°
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs
- Healthy - UV-free & IR-free



Fireproof Downlight



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	IP	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Fireproof Downlight - Triac driver								
Fireproof Downlight G1 TU IP65 5W F W	93108712	5	400	3000	65	80	Ø85x70	0.176
Fireproof Downlight G1 TU IP20 5W R W	93108714	5	400	& 4000	20	80	Ø85x70	0.176
Fireproof Downlight G1 TU IP65 7.5W F W	93108736	7.5	650	4000	65	86	Ø85x80	0.296
Fireproof Downlight Accessories								
Bezel for Fireproof DLR IP20 Chrome 10PC	93113204							
Bezel for Fireproof DLR IP20 Nickel 10PC	93113205							
Bezel for Fireproof DLR IP65 Chrome 10PC	93113206							
Bezel for Fireproof DLR IP65 Nickel 10PC	93113207							



LED INDOOR SOLUTION

Tracklights



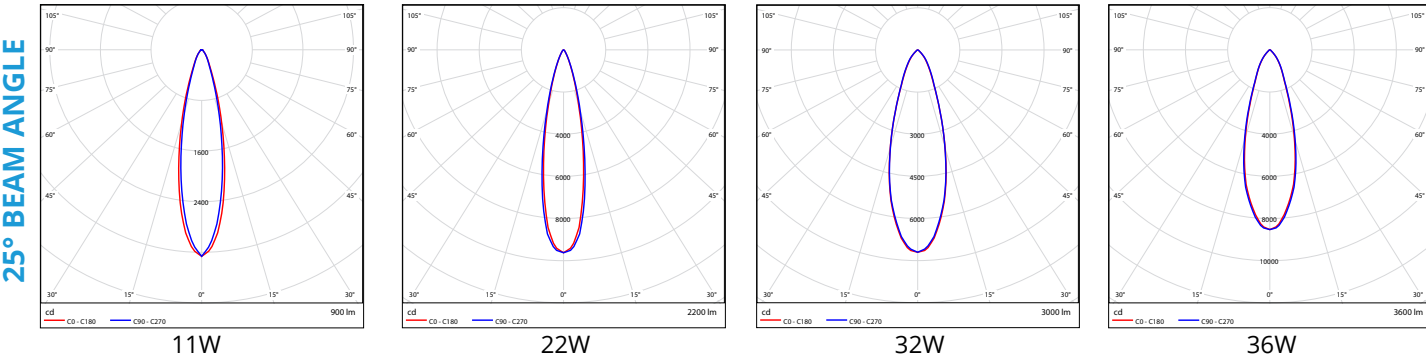
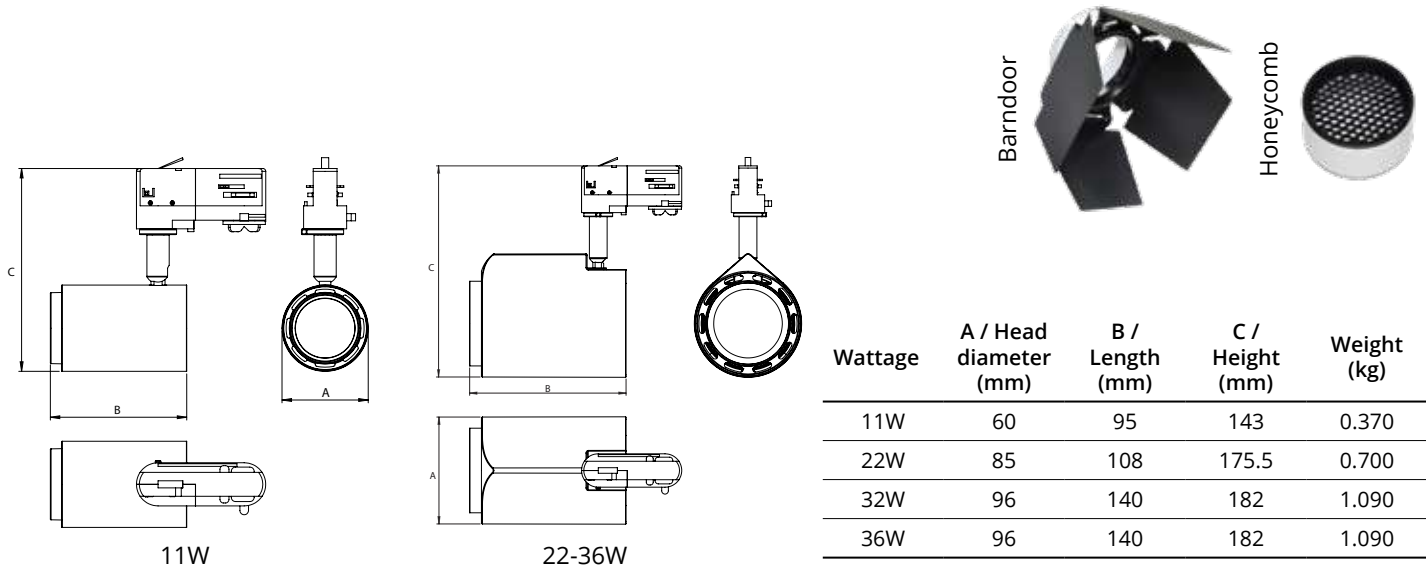
Trackspot LUX

Precise accent lighting designed for retail applications, art galleries, and museums. The Lux range track spot has a unique patented design, self-cleaning lens and sleek appearance making it an attractive proposition for any project. Over 50% energy saving compared to Ceramic Metal Halide thanks to the high efficacy up to 109lm/W. This CR90 option with three-step MacAdam ellipses offers high-quality lighting for high-end applications. The wide range of accessories and interchangeable lens options makes this a flexible and highly attractive option.



Benefits

- Die casting aluminum housing
- Precise light distribution
- Macadam 3 SDCM
- Up to 110lm/W efficacy
- Ultraviolet (UV) + Infrared (IR) free light
- Passive cooling system without fans
- Anti-Glare lens optic
- Water-drop design with Self-Cleaning Function



Trackspot LUX



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	UGR	Dimensions (mm)	Weight (kg)
Trackspot LUX - Static driver								
LED Track Spot LUX 930 11W S 25D WT	93113166	11	850	3000	77	-	60x95x143	0.37
LED Track Spot LUX 930 11W S 25D BK	93113167	11	850	3000	77	-	60x95x143	0.37
LED Track Spot LUX 940 11W S 25D WT	93113168	11	900	4000	82	-	60x95x143	0.37
LED Track Spot LUX 940 11W S 25D BK	93113169	11	900	4000	82	-	60x95x143	0.37
LED Track Spot LUX 930 22W S 25D WT	93113170	22	2 200	3000	100	-	85x108x175	0.7
LED Track Spot LUX 930 22W S 25D BK	93113171	22	2 200	3000	100	-	85x108x175	0.7
LED Track Spot LUX 940 22W S 25D WT	93113172	22	2 400	4000	109	-	85x108x175	0.7
LED Track Spot LUX 940 22W S 25D BK	93113173	22	2 400	4000	109	-	85x108x175	0.7
LED Track Spot LUX 930 32W S 25D WT	93113174	32	3 000	3000	94	-	96x141x182	1.09
LED Track Spot LUX 930 32W S 25D BK	93113175	32	3 000	3000	94	-	96x141x182	1.09
LED Track Spot LUX 940 32W S 25D WT	93113176	32	3 100	4000	97	-	96x141x182	1.09
LED Track Spot LUX 940 32W S 25D BK	93113177	32	3 100	4000	97	-	96x141x182	1.09
LED Track Spot LUX 930 36W S 25D WT	93115001	36	3 600	3000	100	-	96x141x182	1.09
LED Track Spot LUX 930 36W S 25D BK	93115002	36	3 600	3000	100	-	96x141x182	1.09
LED Track Spot LUX 940 36W S 25D WT	93115003	36	3 900	4000	108	-	96x141x182	1.09
LED Track Spot LUX 940 36W S 25D BK	93115004	36	3 900	4000	108	-	96x141x182	1.09
Trackspot LUX - DALI driver								
LED Track Spot LUX 930 22W D 25D WT	93117889	22	2 100	3000	95	20	100x108x184	0.7
LED Track Spot LUX 930 22W D 25D BK	93117890	22	2 100	3000	95	20	100x108x184	0.7
LED Track Spot LUX 940 22W D 25D WT	93117891	22	2 350	4000	107	20	100x108x184	0.7
LED Track Spot LUX 940 22W D 25D BK	93117892	22	2 350	4000	107	20	100x108x184	0.7
LED Track Spot LUX 930 36W D 25D WT	93117893	36	3 350	3000	93	24	111x141x199	1.09
LED Track Spot LUX 930 36W D 25D BK	93117894	36	3 350	3000	93	24	111x141x199	1.09
LED Track Spot LUX 940 36W D 25D WT	93117895	36	3 650	4000	101	24	111x141x199	1.09
LED Track Spot LUX 940 36W D 25D BK	93117896	36	3 650	4000	101	24	111x141x199	1.09
Trackspot LUX Accessories								
LED Track Lens ADV/LUX M 20D 10PC	93114888							
LED Track Lens ADV/LUX M 25D 10PC	93114889							
LED Track Lens ADV/LUX M 40D 10PC	93114890							
LED Track Lens ADV/LUX M 55D 10PC	93114891							
LED Track Lens LUX L 25D 10PC	93114896							
LED Track Lens LUX L 40D 10PC	93114897							
LED Track Lens LUX L 55D 10PC	93114898							
LED Track LUX Honeycomb M WT 10PC	93114902							
LED Track LUX Honeycomb M BK 10PC	93114800							
LED Track LUX Honeycomb L WT 10PC	93114903							
LED Track LUX Honeycomb L BK 10PC	93114801							
LED Track LUX Barndoor M WT 10PC	93114904							
LED Track LUX Barndoor M BK 10PC	93114802							
LED Track LUX Barndoor L WT 10PC	93114905							
LED Track LUX Barndoor L BK 10PC	93114803							

LED INDOOR SOLUTION

Tracklights



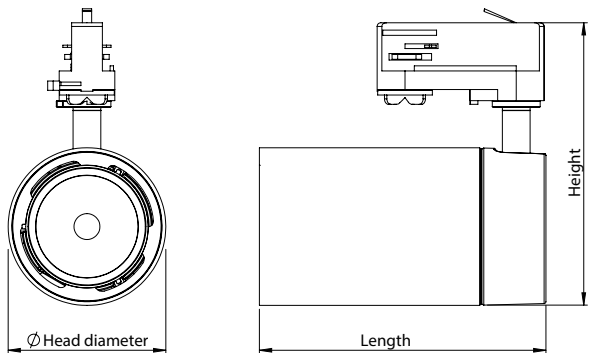
Trackspot ADV

The Tungsram LED Track Light ADV range provides the perfect replacement for Halogen and Ceramic Metal Halide track lights. Offering up to 105lm/W energy efficiency and an advanced optic design, this solution tenders a desired quality of light with great savings and long-life benefits. Available in a modular design with removable and interchangeable lighting components that facilitate easy access to customization; combined with easy replacement, this product offers a diverse track lighting solution for your needs.



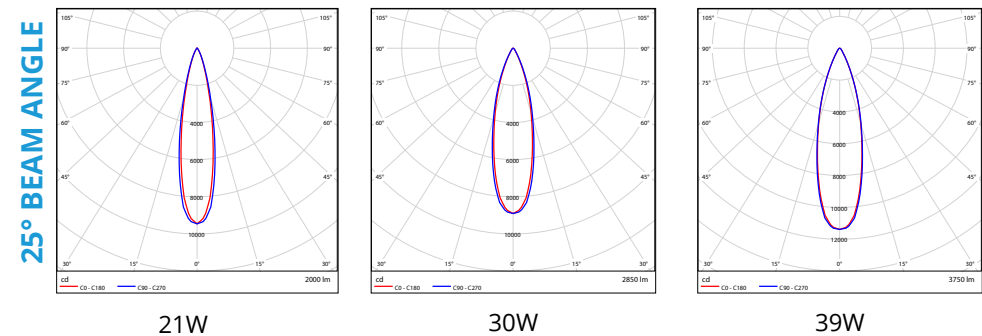
Benefits

- Macadam 3 SDCM
- Ultraviolet (UV) + Infrared (IR) free light
- Modular Design
- Passive cooling system without fans
- Anti-Glare lens optic
- Black and White finishing
- Available up to 39W and up to 4000lm with 3 power levels
- Available with CRI 90+ and 2 CCTs: 3000 / 4000K

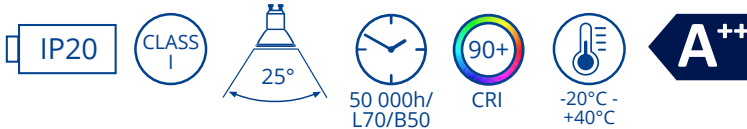


Wattage	Head diameter (mm)	Length (mm)	Height (mm)	Weight (kg)
21W	85	154.5	150	0.735
30W	100	173.3	165	1.300
39W	100	189	165	1.300

Up to 4000lm



Trackspot ADV



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Trackspot ADV - Static driver							
LED Track Spot ADV 930 21W S 25D WT	93113018	21	2 000	3000	95	85x154x150	0.735
LED Track Spot ADV 930 21W S 25D BK	93113019	21	2 000	3000	95	85x154x150	0.735
LED Track Spot ADV 940 21W S 25D WT	93113020	21	2 200	4000	105	85x154x150	0.735
LED Track Spot ADV 940 21W S 25D BK	93113021	21	2 200	4000	105	85x154x150	0.735
LED Track Spot ADV 930 30W S 25D WT	93113022	30	2 850	3000	95	100x173x165	1.300
LED Track Spot ADV 930 30W S 25D BK	93113023	30	2 850	3000	95	100x173x165	1.300
LED Track Spot ADV 940 30W S 25D WT	93113024	30	2 900	4000	97	100x173x165	1.300
LED Track Spot ADV 940 30W S 25D BK	93113025	30	2 900	4000	97	100x173x165	1.300
LED Track Spot ADV 930 39W S 25D WT	93114997	39	3 750	3000	96	100x189x165	1.300
LED Track Spot ADV 930 39W S 25D BK	93114998	39	3 750	3000	96	100x189x165	1.300
LED Track Spot ADV 940 39W S 25D WT	93114999	39	4 000	4000	102	100x189x165	1.300
LED Track Spot ADV 940 39W S 25D BK	93115000	39	4 000	4000	102	100x189x165	1.300
Trackspot ADV Accessories							
LED Track Lens ADV/LUX M 20D 10PC	93114888						
LED Track Lens ADV/LUX M 25D 10PC	93114889						
LED Track Lens ADV/LUX M 40D 10PC	93114890						
LED Track Lens ADV/LUX M 55D 10PC	93114891						
LED Track Lens ADV L 20D 10PC	93114892						
LED Track Lens ADV L 25D 10PC	93114893						
LED Track Lens ADV L 40D 10PC	93114894						
LED Track Lens ADV L 55D 10PC	93114895						
LED Track ADV Trackmount pendant M WT	93114899						
LED Track ADV Trackmount pendant M BK	93114797						
LED Track ADV Surface mount spot M WT	93114900						
LED Track ADV Surface mount spot M BK	93114798						
LED Track ADV Surface mount pendant M WT	93114901						
LED Track ADV Surface mount pendant M BK	93114799						



LED INDOOR SOLUTION

Tracklights

POWERGEAR

Three Phase Track Rails

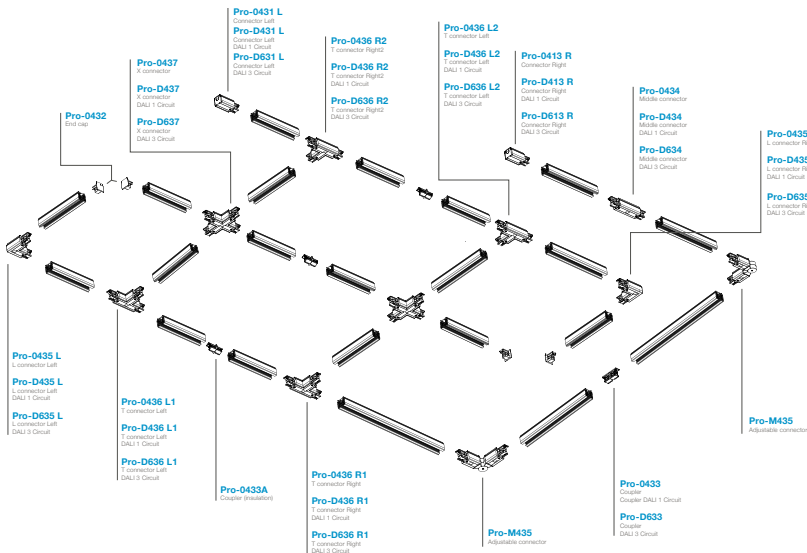
Powergear three phase track system for surface or suspended mounting. Standard lengths are 1, 2 and 3 meters long and the range includes various connecting and mounting accessories. The track system has a modular designed and is compatible with most track spot fixtures. We offer complete solution for static and for DALI systems.



Benefits

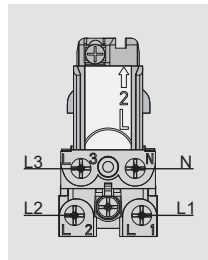
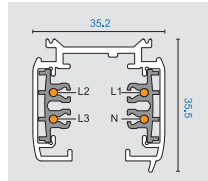
- Versatile lighting track
- 3 phase standard structure
- Fast connection
- Easy and seamless cutting to any size
- Wide range of accessories for any situation or location
- Static and DALI control

This range includes a wide range of track rails and matching accessories



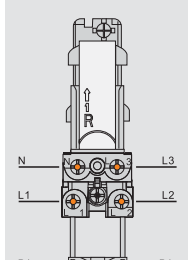
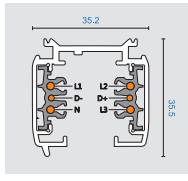
Product structure

3-Circuit Track



L1, L2, L3: fase, life wire
N: neutral, nul, Neutraleiter
Aarde, earth, Schutzleiter

3-Circuit Track DALI



L1, L2, L3: fase, life wire
N: neutral, nul, Neutraleiter
D1, D2: DALI
Aarde, earth, Schutzleiter

For detailed information on the track rail range or for a specific solution, please contact our customer service organization.

POWERGEAR

Three Phase Track Rails

Product Code	Product Description	Powergear Code	Powergear Description	Control	Product specification	Finish	Dim. (mm)	Weight (kg)	Pack Qty.
Static system in black colour. All the products are also available in white									
93118994	TRACK 3PH ST SM 1M B	PRO-0410	1M 3-CIRCUITS TRACK	Static	1 meter static track	Black	35x35x1000	0.84	6
93118995	TRACK 3PH ST SM 2M B	PRO-0420	2M 3-CIRCUITS TRACK	Static	2 meter static track	Black	35x35x2000	1.68	6
93118996	TRACK 3PH ST SM 3M B	PRO-0430	3M 3-CIRCUITS TRACK	Static	3 meter static track	Black	35x35x3000	2.52	6
93118997	TRACK 3PH ST SM CON L B	PRO-0431L	Connector Left	Static	Connector Left	Black	35x35x98	0.063	12
93118998	TRACK 3PH ST SM CON R B	Pro-0431R	Connector Right	Static	Connector Right	Black	35x35x98	0.063	12
93118999	TRACK 3PH ST SM CONIN B	Pro-0434	Middle Connector	Static	Middle Connector	Black	35x35x166	0.113	10
93119000	TRACK 3PH ST SM CONADJ B	Pro-M435	Adjustable Connector	Static	Adjustable Connector	Black	101x101x35	0.15	15
93119001	TRACK 3PH ST SM CONFLEX B	PRO-0439	Flexible connector	Static	Flexible connector	Black	35x35x249	0.17	14
93119002	TRACK 3PH ST SM COUPLER B	Pro-0433	Coupler	Static	Coupler	Black	22x20x68	0.022	10
93119003	TRACK 3PH ST SM CONT TL1L2 B	PRO-M436L	Twisted T connector L1->L2	Static	Twisted T connector L1->L2	Black	166x101x35	0.185	12
93119004	TRACK 3PH ST SM CONT TR1R2 B	PRO-M436R	Twisted T connector R1->R2	Static	Twisted T connector R1->R2	Black	166x101x35	0.185	12
93119005	TRACK 3PH ST SM CONT L1 B	PRO-0436L1	T Connector Left1	Static	T Connector Left1	Black	161x101x35	0.112	12
93119006	TRACK 3PH ST SM CONT L2 B	PRO-0436L2	T Connector Left2	Static	T Connector Left2	Black	161x101x35	0.112	12
93119007	TRACK 3PH ST SM CONT R1 B	PRO-0436R1	T Connector Right1	Static	T Connector Right1	Black	161x101x35	0.112	12
93119008	TRACK 3PH ST SM CONT R2 B	PRO-0436R2	T Connector Right2	Static	T Connector Right2	Black	161x101x35	0.112	12
93119009	TRACK 3PH ST SM CONL TLR B	PRO-M438	Twisted L connector (L and R)	Static	Twisted L connector (L and R)	Black	101x101x35	0.13	18
93119010	TRACK 3PH ST SM CONL L B	PRO-0435L	L Connector Left	Static	L Connector Left	Black	101x101x35	0.112	18
93119011	TRACK 3PH ST SM CONL R B	PRO-0435R	L Connector Right	Static	L Connector Right	Black	101x101x35	0.112	18
93119012	TRACK 3PH ST SM CONX B	PRO-0437	X Connector	Static	X Connector	Black	166x166x35	0.23	5
93119013	TRACK 3PH ST SM ENDCUP B	PRO-0432	End cap	Static	End cap	Black	35x35x31	0.009	15

DALI system in white colour. All the products are also available in black									
93118979	TRACK 3PH D SM 1M W	PRO-0610	1M 3-CIRCUITS DALI TRACK	DALI	1 meter DALI track	White	35x35x1000	0.92	6
93118980	TRACK 3PH D SM 2M W	PRO-0620	2M 3-CIRCUITS DALI TRACK	DALI	2 meter DALI track	White	35x35x2000	1.85	6
93118981	TRACK 3PH D SM 3M W	PRO-0630	3M 3-CIRCUITS DALI TRACK	DALI	3 meter DALI track	White	35x35x3000	2.8	6
93118982	TRACK 3PH D SM CON L W	PRO-D631L	Connector Left DALI 3 Circuit	DALI	Connector Left DALI 3 Circuit	White	35x35x98	0.08	10
93118983	TRACK 3PH D SM CON R W	PRO-D631R	Connector Right DALI 3 Circuit	DALI	Connector Right DALI 3 Circuit	White	35x35x98	0.08	10
93118984	TRACK 3PH D SM CONIN W	PRO-D634	Middle connector DALI 3 Circuit	DALI	Middle connector DALI 3 Circuit	White	35x35x166	0.13	10
93118985	TRACK 3PH D SM CONFLEX W	PRO-D639	Flexible connector DALI 3 Circuit	DALI	Flexible connector DALI 3 Circuit	White	35x35x249	0.181	12
93118986	TRACK 3PH D SM COUPLER W	PRO-D633	Coupler DALI 3 Circuit	DALI	Coupler DALI 3 Circuit	White	22x20x68	0.043	10
93118987	TRACK 1PH D SM CONT L1 W	PRO-D636L1	T Connector Left1 DALI 3 Circuit	DALI	T Connector Left1 DALI 3 Circuit	White	119x203x35	0.192	9
93118988	TRACK 1PH D SM CONT L2 W	PRO-D636L2	T Connector Left2 DALI 3 Circuit	DALI	T Connector Left2 DALI 3 Circuit	White	119x203x35	0.192	9
93118989	TRACK 1PH D SM CONT R1 W	PRO-D636R1	T Connector Right1 DALI 3 Circuit	DALI	T Connector Right1 DALI 3 Circuit	White	119x203x35	0.192	9
93118990	TRACK 1PH D SM CONT R2 W	PRO-D636R2	T Connector Right2 DALI 3 Circuit	DALI	T Connector Right2 DALI 3 Circuit	White	119x203x35	0.192	9
93118991	TRACK 3PH D SM CONL L W	PRO-D635L	L Connector Left DALI 3 Circuit	DALI	L Connector Left DALI 3 Circuit	White	119x119x35	0.125	12
93118992	TRACK 3PH D SM CONL R W	PRO-D635R	L Connector Right DALI 3 Circuit	DALI	L Connector Right DALI 3 Circuit	White	119x119x35	0.125	12
93118993	TRACK 3PH D SM CONX W	PRO-D637	X Connector DALI 3 Circuit	DALI	X Connector DALI 3 Circuit	White	203x203x35	0.26	2

A wide range of additional accessories is available on our website.

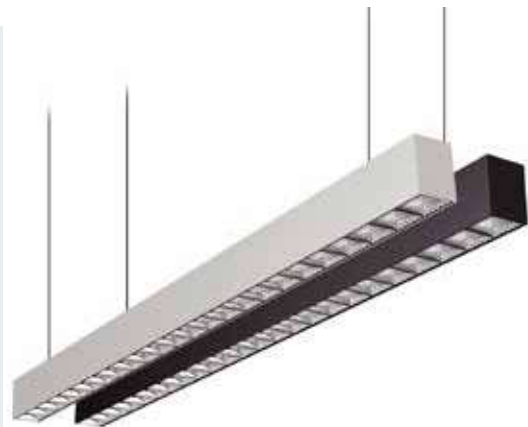
LED INDOOR SOLUTION

Linears



TOROFI

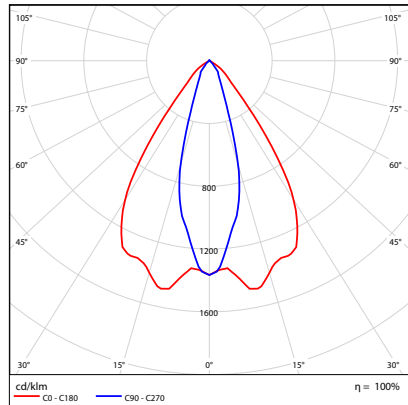
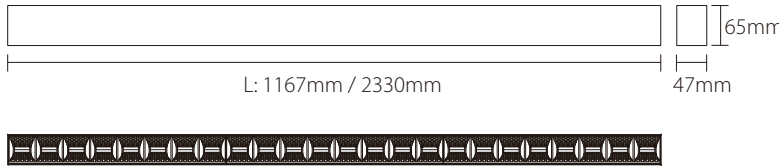
Tungsram Torofi range is ideal for commercial or office lighting due to its high visual comfort and flexible mounting options. It's modern design is highly esthetical and can upgrade the appearance of the space it has been installed.



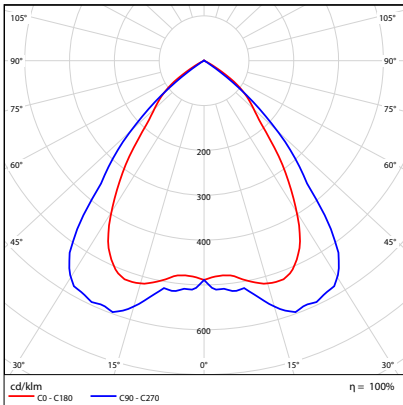
Benefits

- Up to 128 lm/W efficiency
- Direct and direct-indirect versions
- Very low UGR versions - UGR 14
- Seamless continuous design
- Surface mount, pendant and track mount options

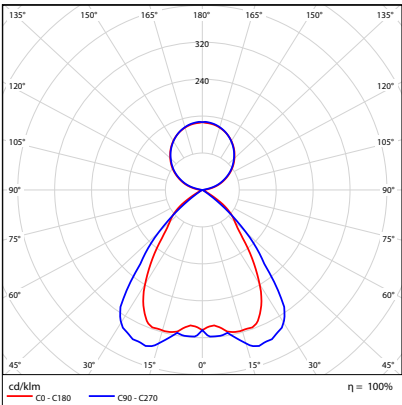
Dimensions (mm)



29W, 30°x70°

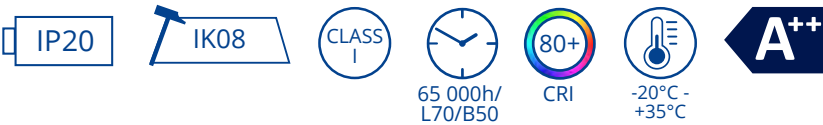


29W, 85°x85°



29W, Direct-Indirect

TOROFI



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimension (mm)	UGR	Beam angle (°)	Weight (kg)	Colour	Light distribution
Torofi - Static											
Torofi P 29W 1200 830 S 085 B 10	93115825	29	2 700	3000	93	47x1167x6	18	85°x85°	1.9	Black	Direct
Torofi P 29W 1200 830 S 085 Wh 10	93115357	29	2 700	3000	93	47x1167x6	18	85°x85°	3.4	White	Direct
Torofi P 29W 1200 830 S 085 B 73	93115826	29	3 050	3000	105	47x1167x6	14	85°x85°	1.9	Black	Direct-Indirect
Torofi P 29W 1200 830 S 085 WH 73	93118948	29	3 050	3000	105	47x1167x6	14	85°x85°	1.9	White	Direct-Indirect
Torofi P 29W 1200 830 S 030 B 10	93115827	29	2 600	3000	90	47x1167x6	18	30°x70°	1.9	Black	Direct
Torofi P 29W 1200 840 S 085 B 10	93115828	29	2 900	4000	100	47x1167x6	18	85°x85°	1.9	Black	Direct
Torofi P 29W 1200 840 S 085 Wh 10	93117107	29	2 900	4000	100	47x1167x6	18	85°x85°	3.4	White	Direct
Torofi P 29W 1200 840 S 085 B 73	93115829	29	3 250	4000	112	47x1167x6	14	85°x85°	1.9	Black	Direct-Indirect
Torofi P 29W 1200 840 S 085 WH 73	93118950	29	3 250	4000	112	47x1167x6	14	85°x85°	1.9	White	Direct-Indirect
Torofi P 29W 1200 840 S 030 B 10	93115830	29	2 700	4000	93	47x1167x6	19	30°x70°	1.9	Black	Direct
Torofi P 45W 1200 830 S 085 B 10	93115831	45	4 650	3000	103	47x1167x6	20	85°x85°	1.9	Black	Direct
Torofi P 45W 1200 830 S 085 WH 10	93118951	45	4 650	3000	103	47x1167x6	20	85°x85°	1.9	White	Direct
Torofi P 45W 1200 830 S 085 B 73	93115832	45	5 350	3000	119	47x1167x6	15	85°x85°	1.9	Black	Direct-Indirect
Torofi P 45W 1200 830 S 085 WH 73	93118952	45	5 350	3000	119	47x1167x6	15	85°x85°	1.9	White	Direct-Indirect
Torofi P 45W 1200 830 S 030 B 10	93115833	45	4 450	3000	99	47x1167x6	20	30°x70°	1.9	Black	Direct
Torofi P 45W 1200 840 S 085 B 10	93115834	45	5 000	4000	111	47x1167x6	21	85°x85°	1.9	Black	Direct
Torofi P 45W 1200 840 S 085 WH 10	93118953	45	5 000	4000	111	47x1167x6	21	85°x85°	1.9	White	Direct
Torofi P 45W 1200 840 S 085 B 73	93115835	45	5 750	4000	128	47x1167x6	16	85°x85°	1.9	Black	Direct-Indirect
Torofi P 45W 1200 840 S 085 WH 73	93118954	45	5 750	4000	128	47x1167x6	16	85°x85°	1.9	White	Direct-Indirect
Torofi P 45W 1200 840 S 030 B 10	93115836	45	4 600	4000	102	47x1167x6	20	30°x70°	1.9	Black	Direct
Torofi P 45W 2400 830 S 085 Wh 10	93115358	45	4 650	3000	103	47x2330x68	18	85°x85°	3.4	White	Direct
Torofi P 45W 2400 840 S 085 Wh 10	93117108	45	5 000	4000	111	47x2330x68	18	85°x85°	3.4	White	Direct
Torofi - DALI											
Torofi P 29W 1200 830 D 085 Wh 10	93118205	29	2 700	3000	93	1167 x 47 x 65	18	85°x85°	1.9	White	Direct
Torofi P 29W 1200 830 D 085 B 10	93118206	29	2 700	3000	93	1167 x 47 x 65	18	85°x85°	1.9	Black	Direct
Torofi P 29W 1200 830 D 085 Wh 73	93118207	29	3 050	3000	105	1167 x 47 x 65	14	85°x85°	1.9	White	Direct-Indirect
Torofi P 29W 1200 830 D 085 B 73	93118208	29	3 050	3000	105	1167 x 47 x 65	14	85°x85°	1.9	Black	Direct-Indirect
Torofi P 29W 1200 840 D 085 Wh 10	93118209	29	2 900	4000	100	1167 x 47 x 65	18	85°x85°	1.9	White	Direct
Torofi P 29W 1200 840 D 085 B 10	93118210	29	2 900	4000	100	1167 x 47 x 65	18	85°x85°	1.9	Black	Direct
Torofi P 29W 1200 840 D 085 Wh 73	93118211	29	3 250	4000	112	1167 x 47 x 65	14	85°x85°	1.9	White	Direct-Indirect
Torofi P 29W 1200 840 D 085 B 73	93118212	29	3 250	4000	112	1167 x 47 x 65	14	85°x85°	1.9	Black	Direct-Indirect
Torofi P 45W 1200 830 D 085 Wh 10	93118213	45	4 650	3000	103	1167 x 47 x 65	20	85°x85°	1.9	White	Direct
Torofi P 45W 1200 830 D 085 B 10	93118214	45	4 650	3000	103	1167 x 47 x 65	20	85°x85°	1.9	Black	Direct
Torofi P 45W 1200 830 D 085 Wh 73	93118215	45	5 350	3000	119	1167 x 47 x 65	15	85°x85°	1.9	White	Direct-Indirect
Torofi P 45W 1200 830 D 085 B 73	93118216	45	5 350	3000	119	1167 x 47 x 65	15	85°x85°	1.9	Black	Direct-Indirect
Torofi P 45W 1200 840 D 085 Wh 10	93118217	45	5 000	4000	111	1167 x 47 x 65	21	85°x85°	1.9	White	Direct
Torofi P 45W 1200 840 D 085 B 10	93118218	45	5 000	4000	111	1167 x 47 x 65	21	85°x85°	1.9	Black	Direct
Torofi P 45W 2400 840 D 085 Wh 10	93118221	45	5 000	4000	111	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct
Torofi P 45W 2400 840 D 085 B 10	93118222	45	5 000	4000	111	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct
Torofi P 45W 1200 840 D 085 Wh 73	93118219	45	5 750	4000	128	1167 x 47 x 65	16	85°x85°	3.2	White	Direct-Indirect
Torofi P 45W 1200 840 D 085 B 73	93118220	45	5 750	4000	128	1167 x 47 x 65	16	85°x85°	3.2	Black	Direct-Indirect
Torofi P 45W 2400 840 D 085 Wh 73	93118223	45	5 750	4000	128	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct-Indirect
Torofi P 45W 2400 840 D 085 B 73	93118224	45	5 750	4000	128	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct-Indirect
Torofi P 90W 2400 830 D 085 Wh 10	93118225	90	8 800	3000	98	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct
Torofi P 90W 2400 830 D 085 B 10	93118226	90	8 800	3000	98	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct
Torofi P 90W 2400 830 D 085 Wh 73	93118227	90	10 100	3000	112	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct-Indirect
Torofi P 90W 2400 830 D 085 B 73	93118228	90	10 100	3000	112	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct-Indirect
Torofi P 90W 2400 840 D 085 Wh 10	93118229	90	9 500	4000	105	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct
Torofi P 90W 2400 840 D 085 B 10	93118230	90	9 500	4000	105	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct
Torofi P 90W 2400 840 D 085 Wh 73	93118231	90	10 900	4000	121	2330 x 47 x 65	n/a	85°x85°	3.2	White	Direct-Indirect
Torofi P 90W 2400 840 D 085 B 73	93118232	90	10 900	4000	121	2330 x 47 x 65	n/a	85°x85°	3.2	Black	Direct-Indirect

LED INDOOR SOLUTION

Linears

TOROFI

Product Description	Product Code
Accessories for different mounting options	
Torofi I connector	93115359
Torofi L connector White	93115360
Torofi T connector White	93115361
Torofi X connector White	93115362
Torofi Endcap White	93115845
Torofi Track Kit White	93115843
Torofi L Connector Black	93115837
Torofi T Connector Black	93115838
Torofi X Connector Black	93115839
Torofi Pendant Canopy Kit Black	93115840
Torofi Track Kit Black	93115844
Torofi Endcap Black	93115846
Torofi Continuous kit Static 1200mm	93115365
Torofi Continuous kit Static 2400mm	93115366
Torofi Continuous Kit DALI 1200mm	93115841
Torofi Continuous Kit DALI 2400mm	93115842
Torofi Pendant Canopy kit White	93115363
Torofi Pendant kit	93115364
Torofi Surface mount kit 3PCS	93115367
Torofi P Empty Profile 1200mm B	93118455
Torofi P Empty Profile 1200mm Wh	93118454

Connectors



Mounting types



Pendant



Surface

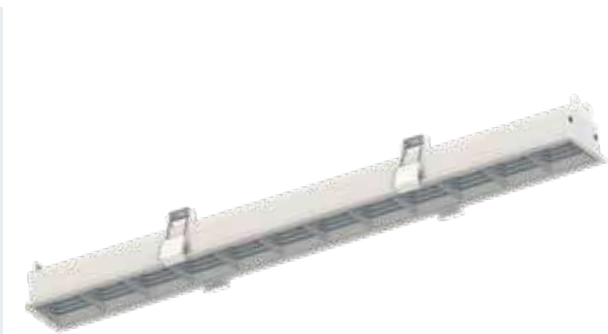


Track Mounted



TOROFI Recessed

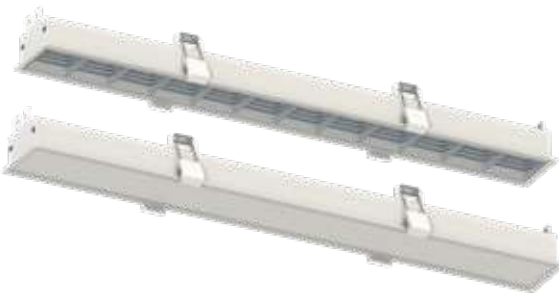
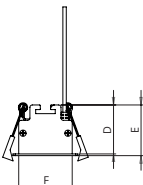
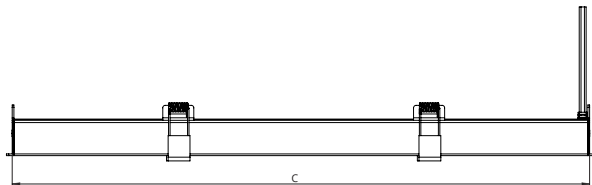
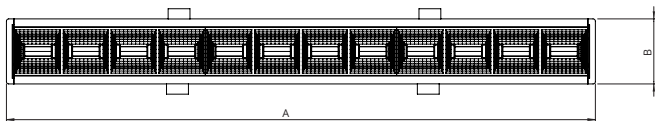
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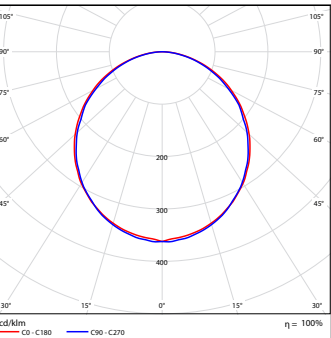
Benefits

Length – 511mm and 1177mm
Driver options – Static, DALI
Recessed Installation
Reflector - Standard Specular
Seamless continuous connection
Low UGR
Up to 127lm/W system efficacy
Helvar driver

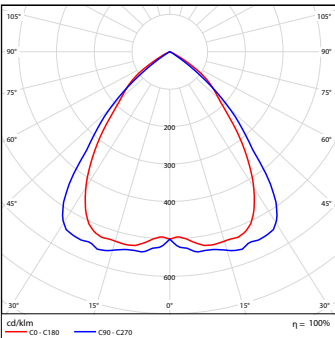
Dimensions (mm)



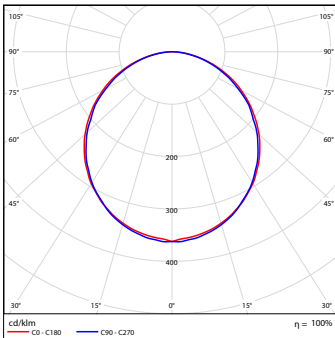
Type	A	B	C	D	E	F
511 mm version	511	56.5	501	44	47	47
1177 mm version	1177	56.5	1167	44	47	47



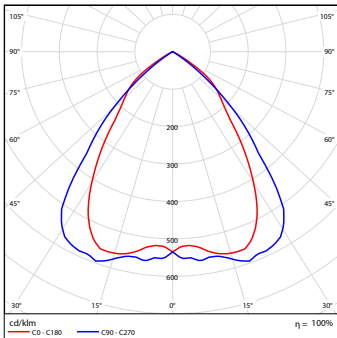
28W 110°



28W 85°



36W 110°



36W 85°

TOROFI Recessed

IP20

IK03

CLASS I

75 000h/
L70/B50

80+
CRI

-20°C -
+40°C

A+

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimension (mm)	UGR	Beam angle (°)	SDCM
Torofi Recessed - Static									
Torofi R 28W 500 830 S 110	93118651	28	3250	3000	116	511	30	110°	≤3
Torofi R 28W 500 830 S 085	93118652	28	3000	3000	107	511	18	85°x85°	≤3
Torofi R 28W 500 840 S 110	93118659	28	3550	4000	127	511	30	110°	≤3
Torofi R 28W 500 840 S 085	93118660	28	3250	4000	116	511	18	85°x85°	≤3
Torofi R 36W1200 830 S 110	93118653	36	3900	3000	108	1177	28	110°	≤3
Torofi R 36W1200 830 S 085	93118654	36	3600	3000	100	1177	15	85°x85°	≤3
Torofi R 36W1200 840 S 110	93118661	36	4150	4000	115	1177	28	110°	≤3
Torofi R 36W1200 840 S 085	93118662	36	3800	4000	106	1177	15	85°x85°	≤3
Torofi Recessed - DALI									
Torofi R 28W 500 830 D 110	93118655	28	3250	3000	116	511	30	110°	≤3
Torofi R 28W 500 830 D 085	93118656	28	3000	3000	107	511	18	85°x85°	≤3
Torofi R 28W 500 840 D 110	93118663	28	3550	4000	127	511	30	110°	≤3
Torofi R 28W 500 840 D 085	93118664	28	3250	4000	116	511	18	85°x85°	≤3
Torofi R 36W1200 830 D 110	93118657	36	3900	3000	108	1177	28	110°	≤3
Torofi R 36W1200 830 D 085	93118658	36	3600	3000	100	1177	15	85°x85°	≤3
Torofi R 36W1200 840 D 110	93118665	36	4150	4000	115	1177	28	110°	≤3
Torofi R 36W1200 840 D 085	93118666	36	3800	4000	106	1177	15	85°x85°	≤3



LED INDOOR SOLUTION

Linears



Linear Indirect

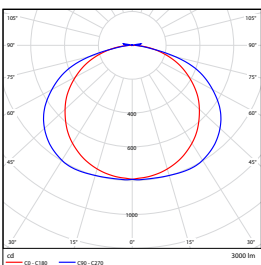
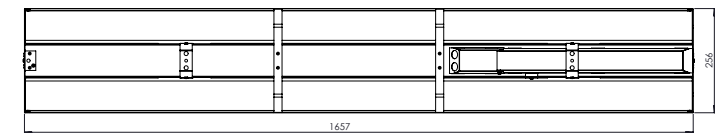
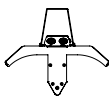
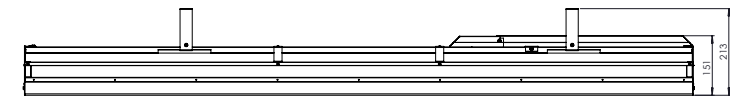
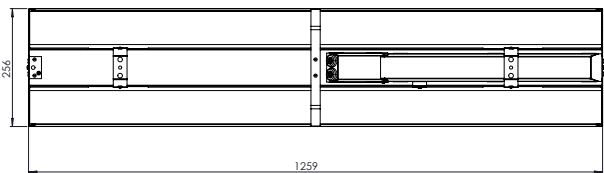
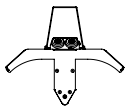
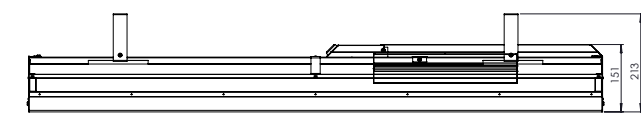


The new Tungsram Linear Indirect range is designed to deliver efficient lighting for commercial and education applications. These efficient lighting fixtures have a long life and deliver a remarkable efficacy (up to 135lm/W), allowing for lower maintenance and operating costs.

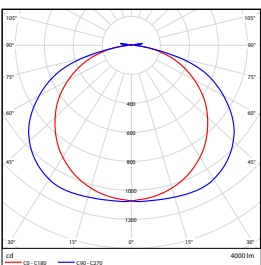


Benefits

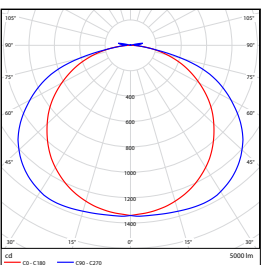
- Visually appealing illumination with CRI 80+
- High-luminous efficiency with minimal glare (<UGR19) due to indirect reflector solution
- Provides strong horizontal and vertical illuminance
- Available in two lengths: 1250 and 1650 mm
- Optional DALI or static control
- Energy efficient replacement for traditional LFL solutions
- Assembled with Nichia LED chips and Tridonic static or BAG DALI driver



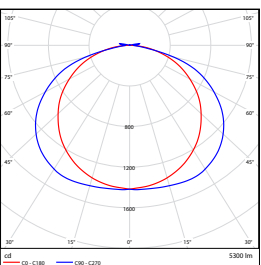
22W - 3000lm



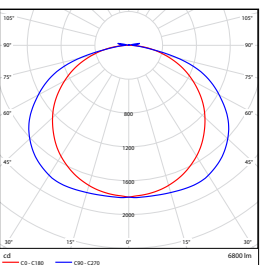
30W - 4000lm



38W - 5000lm



40W - 5300lm

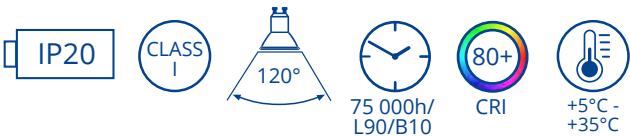


50W - 6800lm

WATTAGE: 22W, 30W, 38W
WEIGHT: 4.8KG

WATTAGE: 40W, 50W
WEIGHT: 5.9KG

Linear Indirect



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	UGR	Dimensions (mm)	Weight (kg)
Linear Indirect - Static driver								
TU LINEAR INDIRECT 30W 12 830 S11 ST G1B	93119115	30	4 000	3000	133	<19	1259x256x151	4.80
TU LINEAR INDIRECT 30W 12 840 S11 ST G1B	93119116	30	4 000	4000	133	<19	1259x256x151	4.80
TU LINEAR INDIRECT 38W 12 830 S11 ST G1B	93119117	38	5 000	3000	132	<19	1259x256x151	4.80
TU LINEAR INDIRECT 38W 12 840 S11 ST G1B	93119118	38	5 000	4000	132	<19	1259x256x151	4.80
TU LINEAR INDIRECT 40W 16 830 S11 ST G1B	93119119	40	5 300	3000	133	<19	1657x256x151	5.90
TU LINEAR INDIRECT 40W 16 840 S11 ST G1B	93119120	40	5 300	4000	133	<19	1657x256x151	5.90
TU LINEAR INDIRECT 50W 16 830 S11 ST G1B	93119121	50	6 800	3000	136	<19	1657x256x151	5.90
TU LINEAR INDIRECT 50W 16 840 S11 ST G1B	93119122	50	6 800	4000	136	<19	1657x256x151	5.90





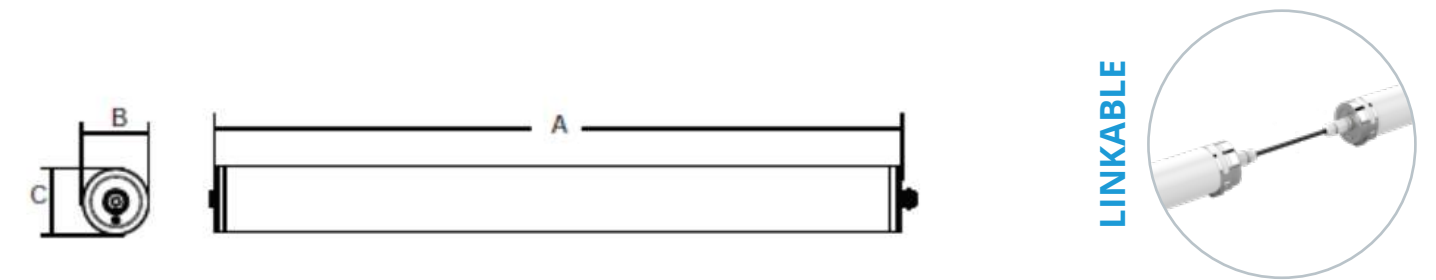
Tubular IP67/69K

The high performance IP67/ IP69K weatherproof Tungsram Tubular luminaire range has many advantages. Matching an outstanding design and performance, the product offers an impressive efficacy up to 150 lm/W. The LED Tubular range carries high protection ratings (IK10 & IP67/IP69K) to make this a durable solution for dusty or damp environments such as carparks, railway stations, airports, warehouses, etc, and the thin tubular shape allows easy architectural integration. With high efficiency and pleasing aesthetics, this product ensures a sustainable investment due to low energy consumption and reduced maintenance costs.

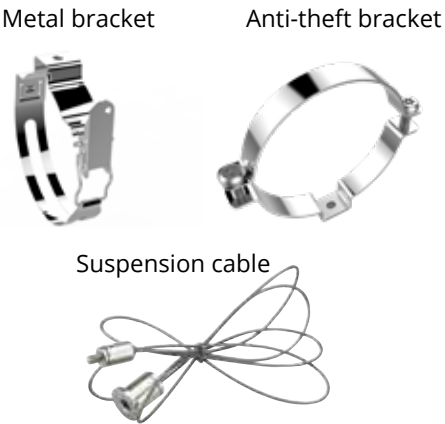
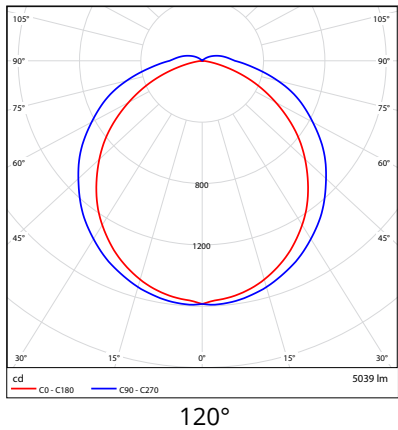
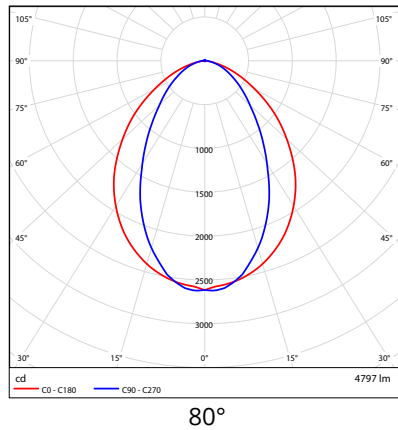


Benefits

- Evenly distributed light
- High energy savings of up to 60% compared to conventional LFL luminaires
- Easy installation as mounting brackets can be positioned freely on the luminaire
- Suitable to use in dusty and damp locations thanks to high IP rating



Description	Wattage	A (mm)	B (mm)	C (mm)	Weight (kg) - PC/PMMA	Weight (kg) - Glass
LED Tubular TU-x-LS36-xxxx	36W	1200	70	70	1.70	3.62
LED Tubular TU-x-LS48-xxxx	48W	1500	70	70	2.00	4.32



Tubular IP67/69K

IP67/IP69K

CLASS I

80° 120°

100 000h/ L70/B50

80+ CRI

-20°C - +35°C

A++

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Tubular IP67/69K - Static driver							
LED Tubular TU-S-LS36-1200C40-80°	93113213	36	4 800	4000	133	Ø70x1200	1.7
LED Tubular TU-S-LS36-1200F40-120°	93113214	36	5 220	4000	145	Ø70x1200	1.7
LED Tubular TU-S-LS48-1500C40-80°	93113216	48	6 400	4000	133	Ø70x1500	2
LED Tubular TU-S-LS48-1500F40-120°	93113217	48	6 960	4000	145	Ø70x1500	2
LED Tubular TU-S-SM36-1200F40-120°	93113224 *	36	5 040	4000	140	Ø70x1200	1.7
LED Tubular TU-S-SM48-1500F40-120°	93113225 *	48	6 720	4000	140	Ø70x1500	1.7
Tubular IP67/69K - High temperature							
LED Tubular TU-HT-SS19-1200F30-120	93119684	19	2 700	3000	140	Ø70x1200	1.7
LED Tubular TU-HT-LS19-1200F30-120	93119683	19	2 700	3000	140	Ø70x1200	1.7
LED Tubular TU-HT-SS28-1200F30-120	93119682	28	3 900	3000	140	Ø70x1200	1.7
LED Tubular TU-HT-LS28-1200F30-120	93119681	28	3 900	3000	140	Ø70x1200	1.7
LED Tubular TU-HT-SS36-1500F30-120	93119680	36	5 000	3000	140	Ø70x1500	2
LED Tubular TU-HT-LS36-1500F30-120	93119679	36	5 000	3000	140	Ø70x1500	2
Tubular IP67/69K - DALI driver							
LED Tubular TU-S-LD36-1200C40-80°	93113219	36	4 350	4000	121	Ø70x1200	1.7
LED Tubular TU-S-LD36-1200F40-120°	93113220	36	4 680	4000	130	Ø70x1200	1.7
LED Tubular TU-S-LD45-1500C40-80°	93113222	45	5 850	4000	130	Ø70x1500	2
LED Tubular TU-S-LD45-1500F40-120°	93113223	45	6 300	4000	140	Ø70x1500	2
LED Tubular TU-S-LD45-1500F30-120°	93115396	45	5 850	3000	130	Ø70x1500	2
Tubular IP67/69K Food - Static driver							
LED Tubular TU-F-LS36-1200F40-120°	93113208	36	5 220	4000	145	Ø70x1200	1.7
LED Tubular TU-F-LS48-1500F40-120°	93113209	48	6 950	4000	145	Ø70x1500	2
LED Tubular TU-F-LS36-1200F30-120°	93113210	36	4 800	3000	133	Ø70x1200	1.7
LED Tubular TU-F-LS48-1500F30-120°	93113211	48	6 400	3000	133	Ø70x1500	2
Tubular IP67/69K Farm, ammonium resistant - Static driver							
LED Tubular TU-M-LS36-1200F40-120°	93113226	36	5 400	4000	150	Ø70x1200	1.7
LED Tubular TU-M-LS48-1500F40-120°	93113227	48	7 200	4000	150	Ø70x1500	2
Tubular IP67/69K Anti-corrosion - Static driver							
LED Tubular TU-G-LS36-1200C40-120°	93113228	36	5 040	4000	140	Ø70x1200	3.62
LED Tubular TU-G-LS48-1500C40-120°	93113229	48	6 720	4000	140	Ø70x1500	4.32
Tubular range - accessories							
LED Tubular Suspension Cable 2pcs 1.5M	93116543						
LED Tubular Anti theft Clip 2pcs	93116544						
Tubular Remote control	93116528						

* With Microwave Motion and daylight sensor



Programmable Mariner with PIR

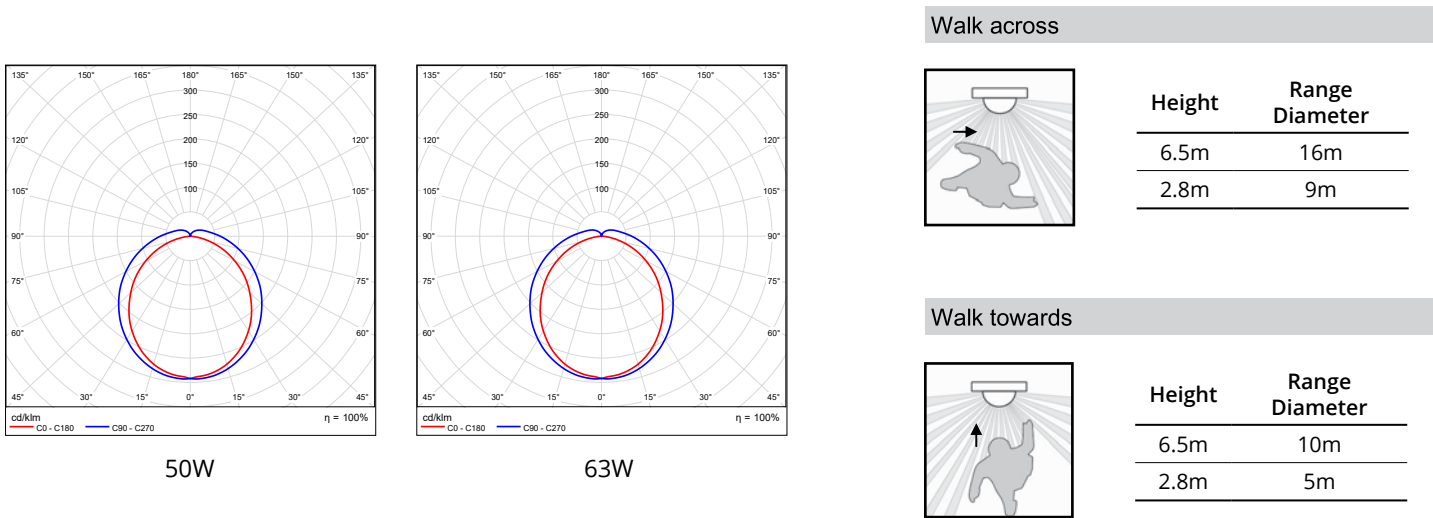
The new premium mariner fixtures from Tungsram are featuring passive infrared sensors. On top of the significant cost saving thanks to LED technology, the sensors help to reduce further the energy costs by switching on the lamps only when they needed to be on. The products are ideal for warehouses, factories and garages. Beyond the 4 lighting scenarios prepared in the fixtures, the users have the freedom to adjust any of the working parameters, for example the detection range, the waiting time and the delay time, the stand-by dimming level and the light sensor input value.



Benefits

- 50W and 63W
- 4000K, 6500K
- Up to 8800 lm
- Very high efficiency up to 140 lm/W
- CRI80+
- Beam angle – 120°
- IP65
- IK08
- Long life: 86.000 hours L80B10
- Installation height: from 2.8m to 6.5m
- Glow wire test 650 °C has been passed

Product	Size A	Size B	Size C
Tung Mariner PR	1660	68	84



Programmable Mariner with PIR

IP65

CLASS II

120°

171 000h/ L70/B50

80+ CRI

-20°C - +40°C

A++

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Rated life L70 (h) @ 25°C	Weight (kg)
Waterproof Programmable mariner with PIR - Static driver								
TUNG Mariner PR G1 5 50W 840 S PIR	93118426	50	7 000	4000	140	1660x84x68x	171000	1.90
TUNG Mariner PR G1 5 50W 865 S PIR	93118427	50	6 700	6500	134	1660x84x68x	171000	1.90
TUNG Mariner PR G1 5 63W 840 S PIR	93118428	63	8 800	4000	140	1660x84x68x	171000	1.90
TUNG Mariner PR G1 5 63W 865 S PIR	93118429	63	8 500	6500	135	1660x84x68x	171000	1.90
Waterproof Programmable mariner with PIR - Accessories								
Tung Mariner Remote control	93118470							
Tung Mariner Suspension Cable	93118471							



Tool-Free Installation Design



Dimmable 5-Pole Push-in Terminal Block



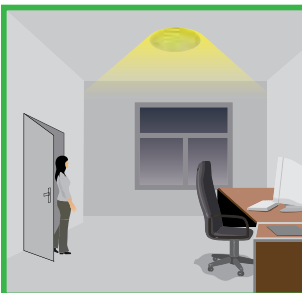
Ceiling Mounting Installation



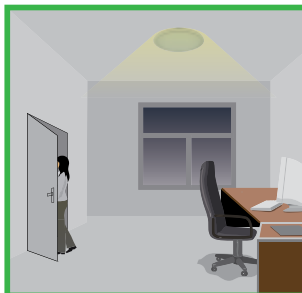
Suspension Installation



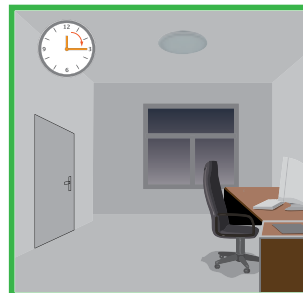
With sufficient natural light, the light does not switch on when presence detected.



With insufficient natural light, the sensor switches on the light automatically when person enters the (options) standby level after the room. The lamp never switch off with presence, even the nature light is sufficient.



People left, light still dims to 0/ 10%/20%/30% (options) standby level after the hold time.



Light switches off automatically after the dimming time elapsed.

Mariner Integrated Premium

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in commercial, residential- and industrial environments. It is an energy-efficient, low-maintenance alternative to traditional fluorescent waterproof fixtures. The integrated mariner offers customers the best mix of value and performance. It has a compact size with high lumen output and is a completely integrable lighting solution for applications with high requirements for luminous intensity and resistance.

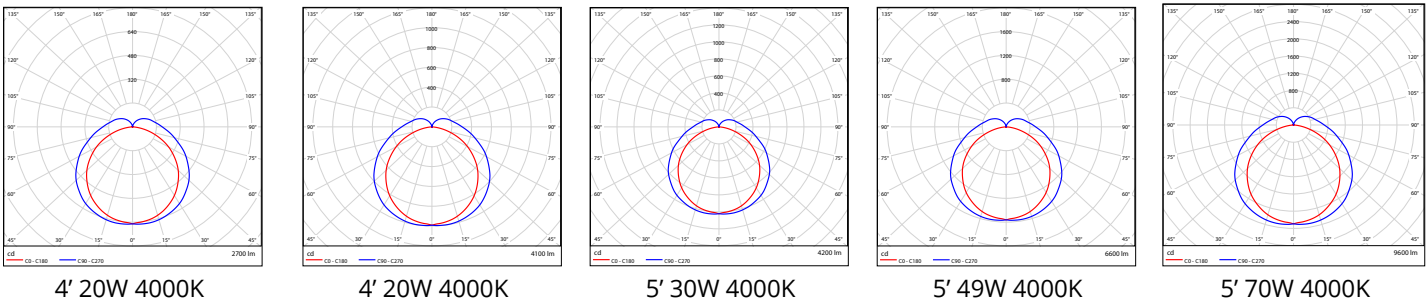
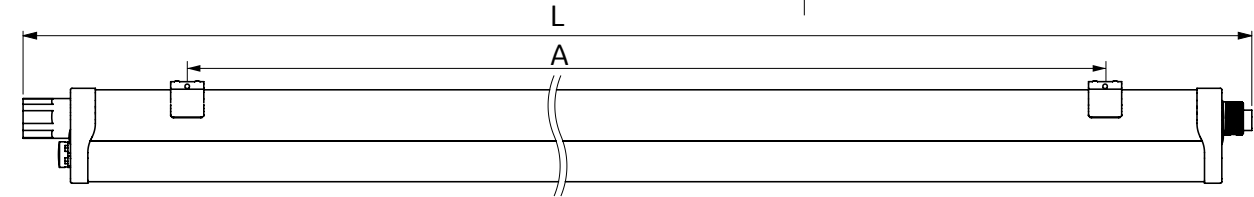
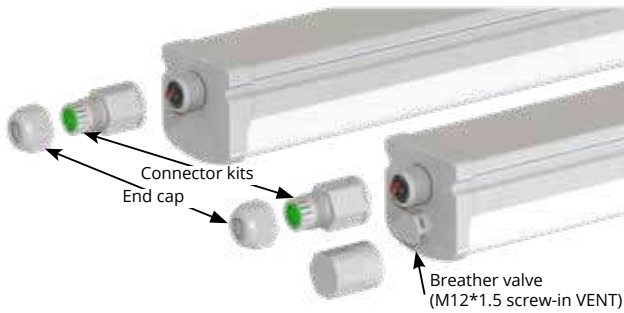


Benefits

- Energy savings of up to 70% (compared to luminaires that use fluorescent lamps)
- Convenient, continuous connection for both sizes of 1200mm and 1500mm, simple and easy installation
- High resistance against ambient air with humidity and high-particle loads
- Simple refurbishment solution thanks to use of existing installation points with freely positionable mounting clips
- Fast and simple installation due to quick connector design



Type	L (mm)	W (mm)	H (mm)
LED Mariner PR G1 TU 4' xxx	1170	66	63
LED Mariner PR G1 TU 5' xxx	1470	66	63



Mariner Integrated Premium



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Additional feature
Mariner Integrated Premium - Static driver								
LED Mariner PR G1 TU 4' 20W 840 SST	93101662	20	2 700	4000	135	66x1170x63	0.87	-
LED Mariner PR G1 TU 4' 20W 865 SST	93107528	20	2 700	6500	135	66x1170x63	0.87	-
LED Mariner PR G1 TU 4' 30W 840 SST	93101663	30	4 100	4000	137	66x1170x63	0.87	-
LED Mariner PR G1 TU 4' 30W 865 SST	93107529	30	4 100	6500	137	66x1170x63	0.87	-
LED Mariner PR G1 TU 5' 30W 840 SST	93107530	30	4 200	4000	140	66x1470x63	1.07	-
LED Mariner PR G1 TU 5' 30W 865 SST	93107531	30	4 200	6500	140	66x1470x63	1.07	-
LED Mariner PR G1 TU 5' 49W 840 SST	93101668	49	6 600	4000	135	66x1470x63	1.12	-
LED Mariner PR G1 TU 5' 49W 865 SST	93107532	49	6 600	6500	135	66x1470x63	1.12	-
LED Mariner PR G1 TU 5' 70W 840 SST	93101687	70	9 600	4000	137	66x1470x63	1.12	-
LED Mariner PR G1 TU 5' 70W 865 SST	93107568	70	9 600	6500	137	66x1470x63	1.12	-
LED Mariner PR G1 TU 4' 34W 840 SEM	93108072	34	4 100	4000	121	66x1197x63	1.35	3 hours emergency
LED Mariner PR G1 TU 4' 34W 865 SEM	93108073	34	4 100	6500	121	66x1497x63	1.57	
LED Mariner PR G1 TU 5' 52W 840 SEM	93108074	52	6 600	4000	127	66x1497x63	1.6	
LED Mariner PR G1 TU 5' 52W 865 SEM	93108075	52	6 600	6500	127	66x1497x63	1.6	
Mariner Integrated Premium - DALI driver								
LED Mariner PR G1 TU 4' 30W 840 DST	93101691	30	3 800	4000	127	66x1170x63	0.87	-
LED Mariner PR G1 TU 5' 49W 840 DST	93101696	49	6 200	4000	127	66x1470x63	1.12	-
Mariner Integrated Premium Accessories								
Mariner Suspension Kit	93118307							
Metal clips for Integrated Mariner	93118308							
PIR Sensor	93118920							

PIR Sensor

Compatible with all waterproof fixtures with static driver



Integrated Mariner Premium G2

Tungsram Integrated Mariner Premium G2 is an excellent choice when looking for a high efficiency, long life solution for warehouse, factory or garage lighting. The range is suitable for most location when linear lighting is needed due to its high ingress protection (IP66) and high impact protection level (IK08).



Benefits

- Highly Efficient: up to 140lm/W
- Luminous flux: up to 7200lm
- CCT: 4000K and 6500K
- SDCM ≤ 6
- Lifetime: 50.000 hours @ L80B10
- 5 - Year Warranty
- IP66 and IK08 protection

Integrated Mariner Premium G2

Available from Q2 only. For more information, please contact our customer service organization.

 IP66

 IK08

 125°

 50 000h/
L80/B10

 80+
CRI

 -20°C -
+50°C

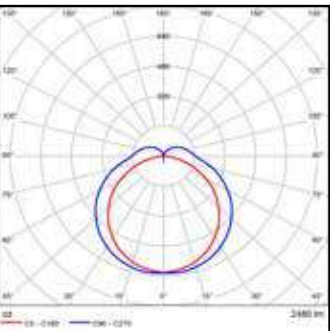
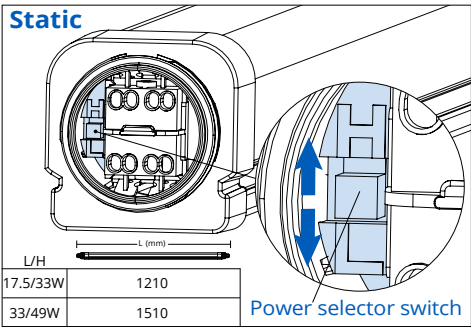
Product Description	Product Code	Dimensions (mm)	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	Weight (kg)	Operating Temperature °C
Integrated Mariner Premium G2 - Static driver								
LED Mariner PR G2 TU 4' 17/33W 840 SST	93119302	1210	17.5/33W	2480/4620	140	4000	0.9	-20 to +50
LED Mariner PR G2 TU 4' 17/33W 840 SSTDS	93119304	1210	17.5/33W	2480/4620	140	4000	0.9	-20 to +50
LED Mariner PR G2 TU 4' 17/33W 865 SST	93119303	1210	17.5/33W	2480/4620	140	6500	0.9	-20 to +50
LED Mariner PR G2 TU 4' 17/33W 865 SSTDS	93119305	1210	17.5/33W	2480/4620	140	6500	0.9	-20 to +50
LED Mariner PR G2 TU 5' 33/49W 840 SST	93119476	1510	33/49W	4620/6900	140	4000	1.1	-20 to +50
LED Mariner PR G2 TU 5' 33/49W 840 SSTDS	93119478	1510	33/49W	4620/6900	140	4000	1.1	-20 to +50
LED Mariner PR G2 TU 5' 33/49W 865 SST	93119477	1510	33/49W	4620/6900	140	6500	1.1	-20 to +50
LED Mariner PR G2 TU 5' 33/49W 865 SSTDS	93119479	1510	33/49W	4620/6900	140	6500	1.1	-20 to +50
Integrated Mariner Premium G2 - DALI driver								
LED Mariner PR G2 TU 4' 33W 840 DST	93119480	1210	33.5W	4700	140	4000	0.9	-20 to +40
LED Mariner PR G2 TU 5' 51W 840 DST	93119481	1510	51W	7200	140	4000	1.1	-20 to +40
Integrated Mariner Premium G2 Accessory								
LED Mariner PR G2 suspension kit	93119482							



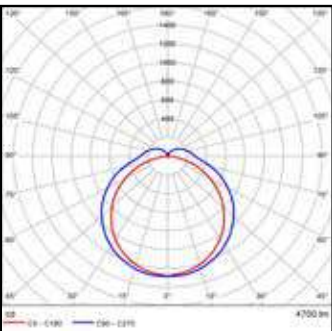
Dali connector



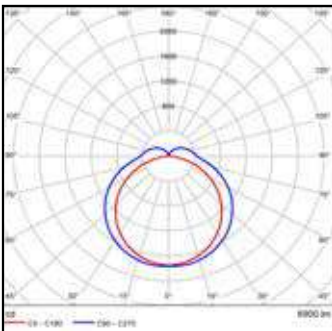
Static connector



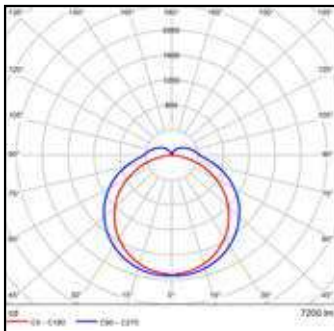
17,5W



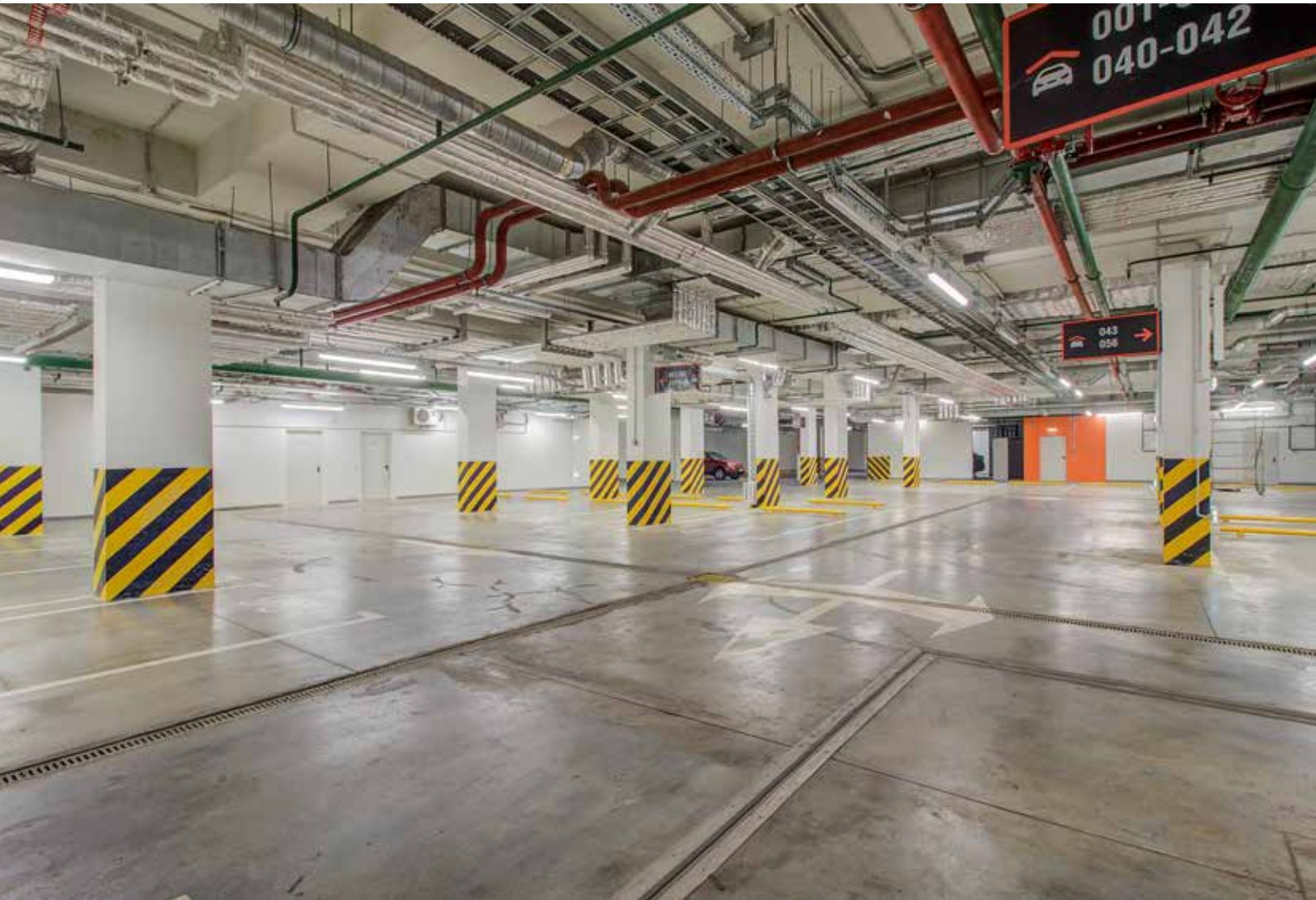
33W



49W



51W



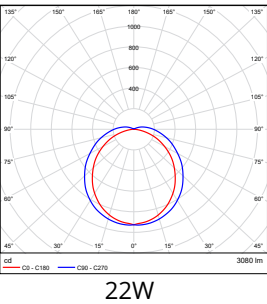
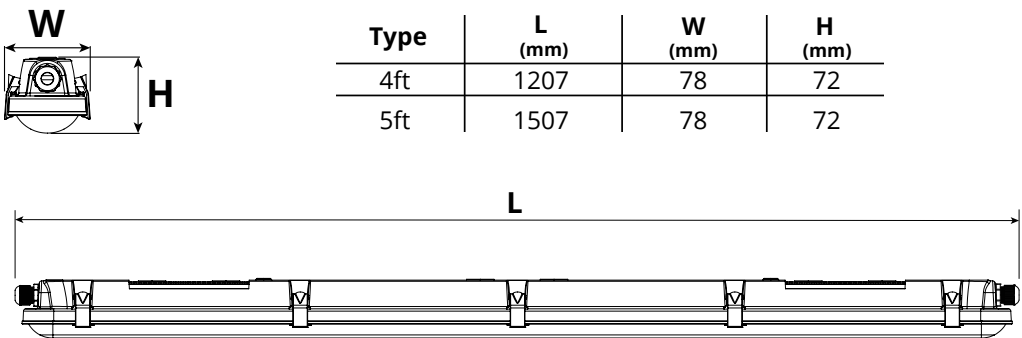
Mariner Clip G1

Tungsram Mariner Clip combines a classical, traditional design with modern technology. This product is an ideal choice for warehouse, factory or garage lighting, where robust structure, easy and flexible installation, high luminous flux combined with high efficiency is required. The range is suitable for most location when linear lighting is needed, due to its high ingress protection (IP65) and high impact protection level (IK08).

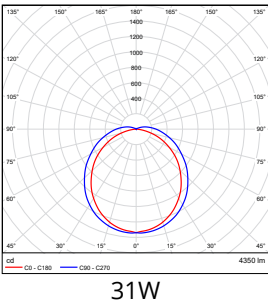


Benefits

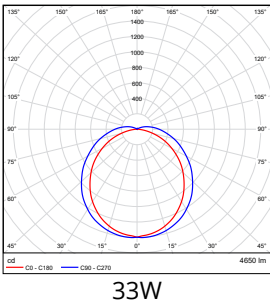
- Two sizes: 1207mm and 1507mm
- Control: Lifud DALI and Static drivers
- Highly Efficient: 140lm/W
- Luminous flux: up to 7000 lm
- CCT: 4000K
- SDCM ≤ 6
- Lifetime: 50.000 hours @ L80B10
- 5 - Year Warranty
- IP65 and IK08 protection
- Flicker free Driver
- Quick connector
- High quality Lumileds chips
- Grey body with semi-transparent diffuser and stainless steel
- Operating temperature from 20 °C up to 50 °C



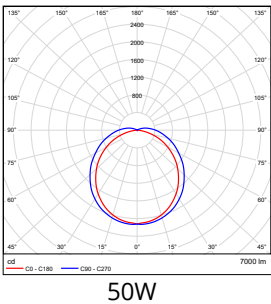
22W



31W



33W



50W

Mariner Clip G1

Available from Q2 only. For more information, please contact our customer service organization.



Product Description	Product Code	Dimensions (mm)	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	Weight (kg)	Operating Temperature °C
Mariner Clip G1 - static								
Tung Mariner CL G1 4' 22W 840 S	93119472	1207	22	3080	140	4000	1.4	-20 to +50
Tung Mariner CL G1 4' 33W 840 S	93119473	1207	33	4650	140	4000	1.4	-20 to +50
Tung Mariner CL G1 5' 31W 840 S	93119474	1507	31	4350	140	4000	1.7	-20 to +50
Tung Mariner CL G1 5' 50W 840 S	93119475	1507	50	7000	140	4000	1.7	-20 to +50
Mariner Clip G1 - DALI								
Tung Mariner CL G1 4' 21W 840 D	93119516	1207	21	2950	140	4000	1.5	-20 to +50
Tung Mariner CL G1 4' 32W 840 D	93119517	1207	32	4500	140	4000	1.5	-20 to +50
Tung Mariner CL G1 5' 30W 840 D	93119518	1507	30	4140	138	4000	2	-20 to +50
Tung Mariner CL G1 5' 51W 840 D	93119519	1507	51	6920	135	4000	2	-20 to +40



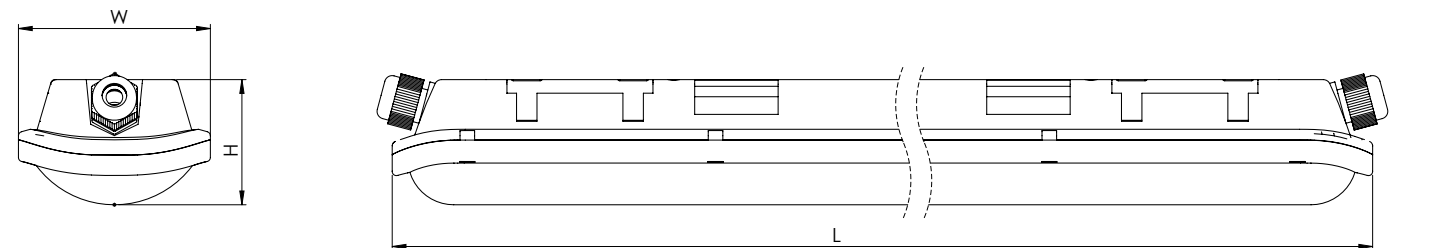
Mariner Integrated Value range

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in commercial, residential, and industrial environments. It is an energy-efficient, low maintenance alternative to traditional fluorescent waterproof fixtures.

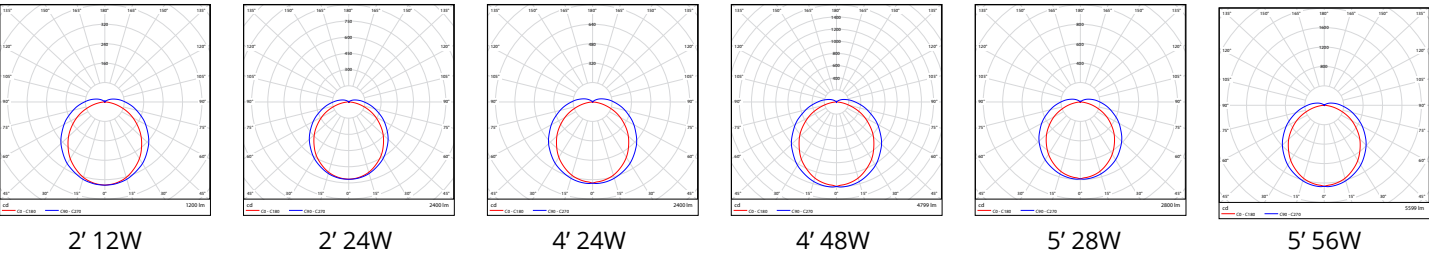


Benefits

- Uniform light
- Convenient, continuous connection for sizes of 600mm, 1200mm and 1500mm, simple and easy installation options
- High resistance against ambient air with humidity and high-particle loads
- Fast and simple installation due to easy connection design



Length	Lumen package	Width (mm)	Length (mm)	Height (mm)
2ft = 600mm	low - 1200lm	72	600	58
2ft = 600mm	high - 2400lm	92	600	60
4ft = 1200mm	low - 2400lm	72	1200	58
4ft = 1200mm	high - 4800lm	92	1200	60
5ft =1500mm	low - 2800lm	72	1500	58
5ft =1500mm	high - 5600lm	92	1500	60



Mariner Integrated Value range



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Mariner Integrated Value range - Static driver							
LED MARINER ST G1 TU 2' 12W 840 S EU	93096947	12	1 200	4000	100	72x600x58	0.7
LED MARINER ST G1 TU 2' 12W 865 S EU	93096949	12	1 200	6500	100	72x600x58	0.7
LED MARINER ST G1 TU 2' 24W 840 S EU	93096950	24	2 400	4000	100	92x600x60	0.8
LED MARINER ST G1 TU 2' 24W 865 S EU	93096952	24	2 400	6500	100	92x600x60	0.8
LED MARINER ST G1 TU 4' 24W 840 S EU	93096955	24	2 400	4000	100	72x1200x58	1.3
LED MARINER ST G1 TU 4' 24W 865 S EU	93096957	24	2 400	6500	100	72x1200x58	1.3
LED MARINER ST G1 TU 5' 28W 840 S EU	93096959	28	2 800	4000	100	72x1500x58	1.7
LED MARINER ST G1 TU 5' 28W 865 S EU	93096961	28	2 800	6500	100	72x1500x58	1.7
LED MARINER ST G1 TU 4' 48W 840 S EU	93096962	48	4 800	4000	100	92x1200x60	1.7
LED MARINER ST G1 TU 4' 48W 865 S EU	93096965	48	4 800	6500	100	92x1200x60	1.7
LED MARINER ST G1 TU 5' 56W 840 S EU	93096968	56	5 600	4000	100	92x1500x60	2
LED MARINER ST G1 TU 5' 56W 865 S EU	93096971	56	5 600	6500	100	92x1500x60	2

The fixture is manufactured with PC (polycarbonate) materials, which can be sensitive to certain corrosive materials (like oil or different chemicals), therefore we recommend to consult with our sales representative or customer care team the right fixture, prior to purchase and installation.



Waterproof Mariner Empty Body

Standard surface mounted / suspended waterproof fittings created for use with GE/Tungsrām T8 LED tubes. Slim profile luminaire, supplied in single and twin lamp versions. IP65 rated, where effective protection against contamination from water or accidental damage are major considerations for the end-user. Neutral aesthetics render the product suitable for applications in both commercial and residential environments as well as industrial environments.

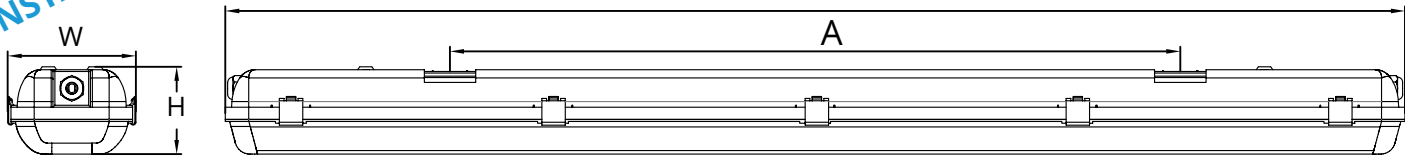


Benefits

- Prewired for easy installation of AC T8 LED lamps
- Luminous flux and light-colour adjustable based on selected lamps
- High protection rating: IP65 and IK08
- Suitable for operation in ambient temperature of -20°C to +40°C
- Integrated through-wiring (3x1.5mm²) for continuous connection

- Body: impact-resistant, self-extinguishing polycarbonate cover
- Colour: grey
- Sealing material between the shell and cover in PU (polyurethane), which offers the lamp-excellent waterproof ability
- Waterproof plastic wiring connector with rubber gasket on one side of the fitting
- Convenient assembly bracket for ceiling mount
- Reflector in white painted steel, connected to the shell by two anti-loss plastic devices
- Small shape and lightweight

EASY
INSTALLATION



Type	L (mm)	W (mm)	H (mm)	A (mm)
1x1200mm	1270	65	70	900 +/- 36
2x1200mm	1270	102	70	900 +/- 36
1x1500mm	1570	65	70	1200 +/-36
2x1500mm	1570	103	70	1200 +/-36

Waterproof Mariner Empty Body

IP65

Product Description	Product Code	Wattage (W)	Dimensions (mm)
Waterproof Mariner Empty Body			
LED MARINER BODY TU T8 SINGLE 1200MM	93107517	max 18W	1270x65x70
LED MARINER BODY TU T8 TWIN 1200MM	93107518	max 2x18W	1270x102x70
LED MARINER BODY TU T8 SINGLE 1500MM	93107519	max 27W	1570x65x70
LED MARINER BODY TU T8 TWIN 1500MM	93107520	max 2x27W	1570x102x70

The fixture is manufactured with PC (polycarbonate) materials, which can be sensitive to certain corrosive materials (like oil or different chemicals), therefore we recommend to consult with our sales representative or customer care team the right fixture, prior to purchase and installation.



LED INDOOR SOLUTION

Battens



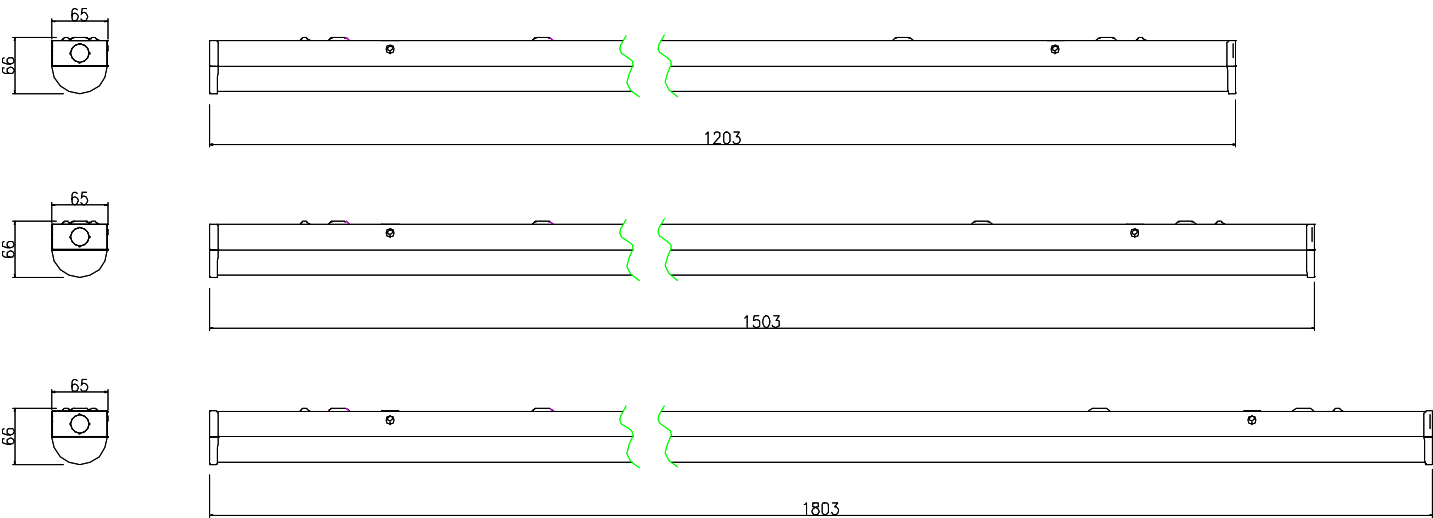
SwiftLUX

Tungsram SwiftLux linear range of fixtures offer a quick install adaptable IP20 batten. Its sleek and innovative design offer up to 142lm/W with a lifetime of 50,000 hours @ L80/B20. Tried and tested integrated LED technology, which guarantees a quick installation and long life. This range of fixtures offer a direct replacement for fluorescent battens in terms of lumen output and standard dimensions.



Benefits

- Power: from 22W to 72W
- Control: DALI and Static control
- Efficiency: Up to 142lm/w
- Luminous flux: up to 9750lm
- 5 - Year Warranty
- Emergency Option
- Microwave Sensor Option
- Corridor function

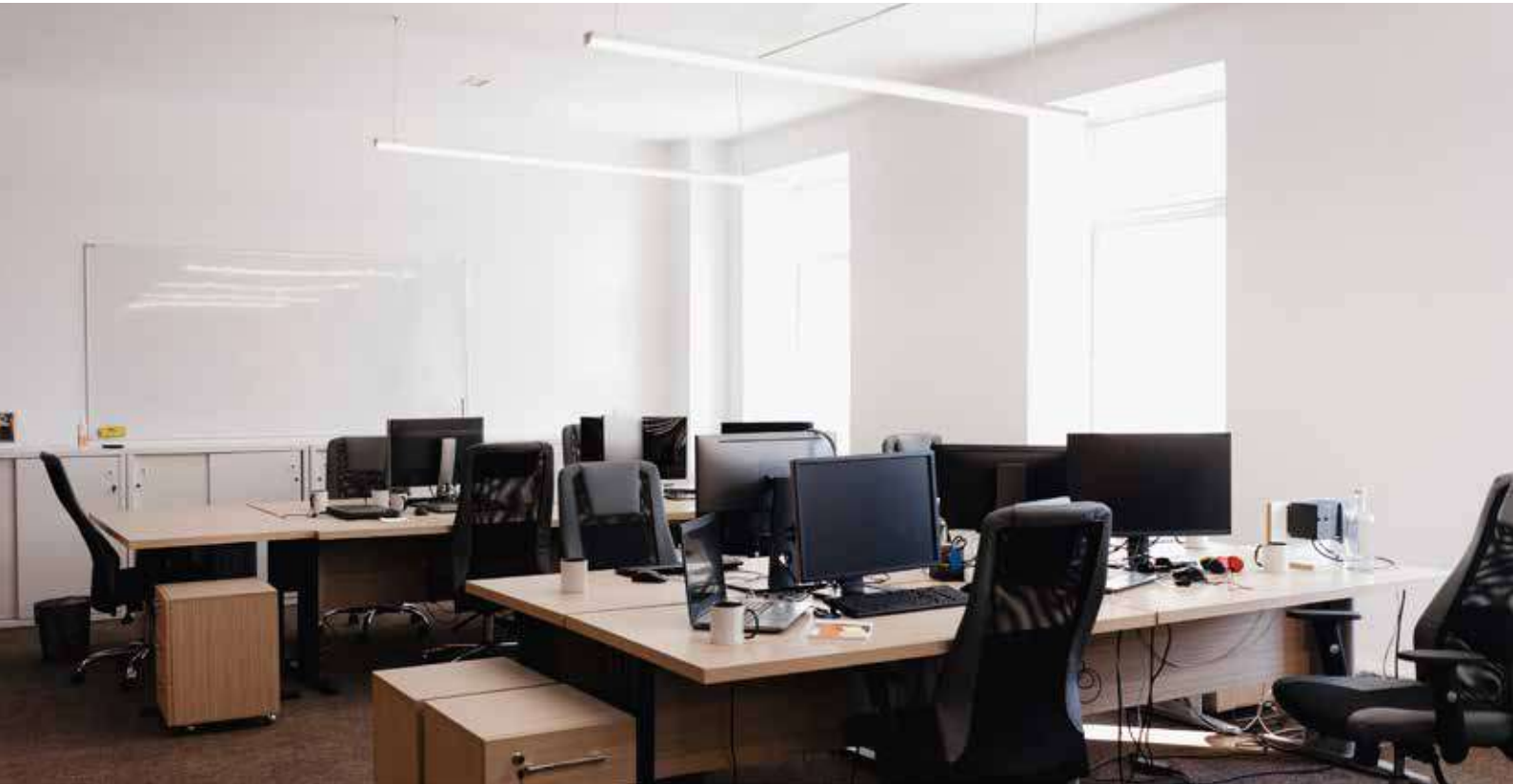


SwiftLUX

Available from Q2 only. For more information, please contact our customer service organization.



Product Description	Product Code	Length	Control	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)
Static range							
SWIFTLUX G1 4' 22W 840 S	93119486	1200mm	Static	22	3100	141	840
SWIFTLUX G1 4' 37W 840 S	93119492	1200mm	Static	37	5200	141	840
SWIFTLUX G1 5' 36W 840 S	93119487	1500mm	Static	36	5100	142	840
SWIFTLUX G1 5' 57W 840 S	93119493	1500mm	Static	57	7980	140	840
SWIFTLUX G1 6' 53W 840 S	93119488	1800mm	Static	53	7500	142	840
SWIFTLUX G1 6' 69W 840 S	93119494	1800mm	Static	69	9670	140	840
Static with Sensor							
SWIFTLUX G1 4' 21W 840 S MS	93119498	1200mm	Static	21	2870	137	840
SWIFTLUX G1 4' 38W 840 S MS	93119501	1200mm	Static	38	5200	137	840
SWIFTLUX G1 5' 34W 840 S MS	93119499	1500mm	Static	34	4760	140	840
SWIFTLUX G1 5' 55W 840 S MS	93119502	1500mm	Static	55	7200	131	840
SWIFTLUX G1 6' 52W 840 S MS	93119500	1800mm	Static	52	7100	137	840
Dimmable range							
SWIFTLUX G1 4' 41W 840 D	93119506	1200mm	DALI	40	5400	135	840
SWIFTLUX G1 5' 62W 840 D	93119507	1500mm	DALI	62	8100	131	840
SWIFTLUX G1 6' 72W 840 D	93119508	1800mm	DALI	72	9750	135	840



LED INDOOR SOLUTION

Battens



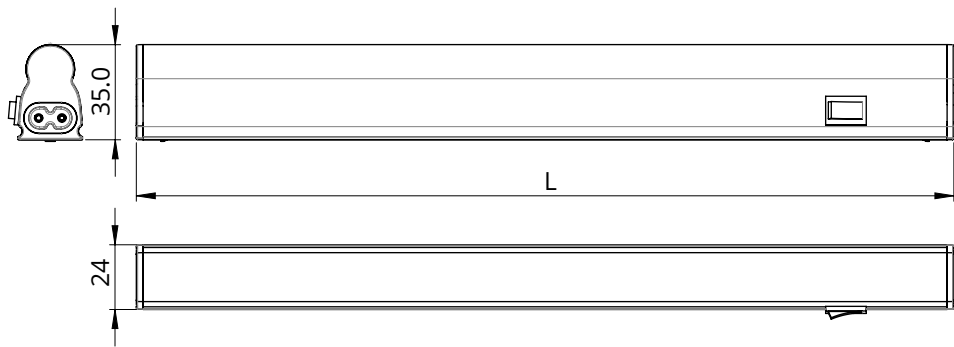
T5 Switch Batten

The LED T5 Batten designed to be a direct replacement for conventional battens, with energy savings. It offers multiple installation methods to ease your worries and bring the customer a brand new experience of soft lighting. The luminaire is fitted with an on/off switch for individual operation. The best choice for smooth linear lighting. We offer this range of 8 luminaires in 4 wattages.



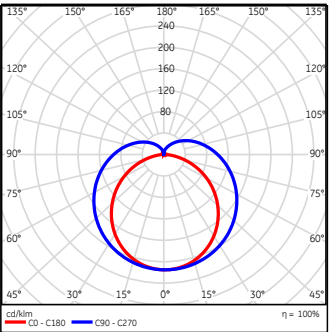
Benefits

- Long life: lifetime 50 000hrs @L70
- High color rendering: CRI>80
- High efficiency: up to 110lm/w
- Environmental: save up to 60% energy
- Beam angle: 150°
- Class: II
- IP20
- IK03

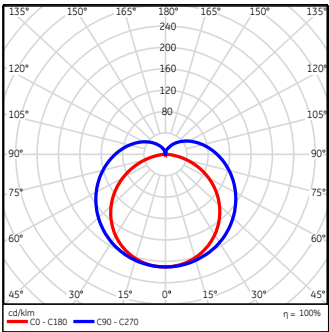


Body material: Polycarbonate (PC)

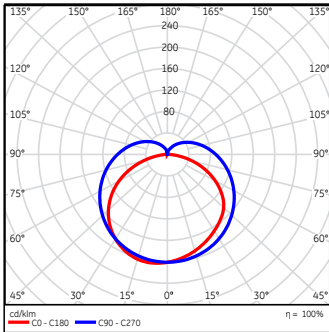
Product colour: White



8W

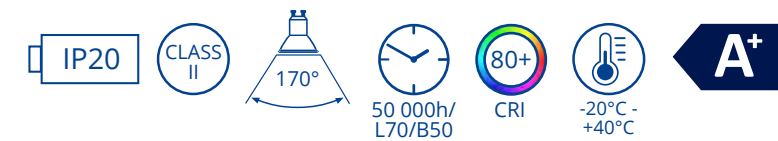


12W



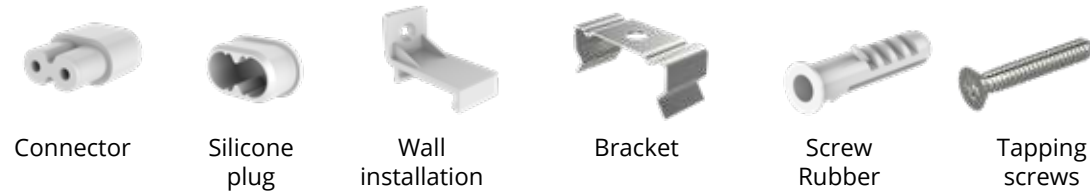
16W

T5 Switch Batten



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
T5 Switch Batten - Static driver							
LED Batten G1 TU IP20 8W 2ft 830 S	93107522	8	900	3000	110	24x602x35	0,115
LED Batten G1 TU IP20 8W 2ft 840 S	93108069	8	900	4000	110	24x602x35	0,115
LED Batten G1 TU IP20 12W 3ft 830 S	93107523	12	1350	3000	110	24x902x35	0,16
LED Batten G1 TU IP20 12W 3ft 840 S	93108070	12	1350	4000	110	24x902x35	0,16
LED Batten G1 TU IP20 16W 4ft 830 S	93107524	16	1800	3000	110	24x1184x35	0,2
LED Batten G1 TU IP20 16W 4ft 840 S	93108071	16	1800	4000	110	24x1184x35	0,2
Accessories							
Connecting cable (wire 200mm)	93107516						
Power cable 1m with EU plug	93108089						
Power cord without plug	93107515						

The below accessories are included in the product.



LED INDOOR SOLUTION

Battens



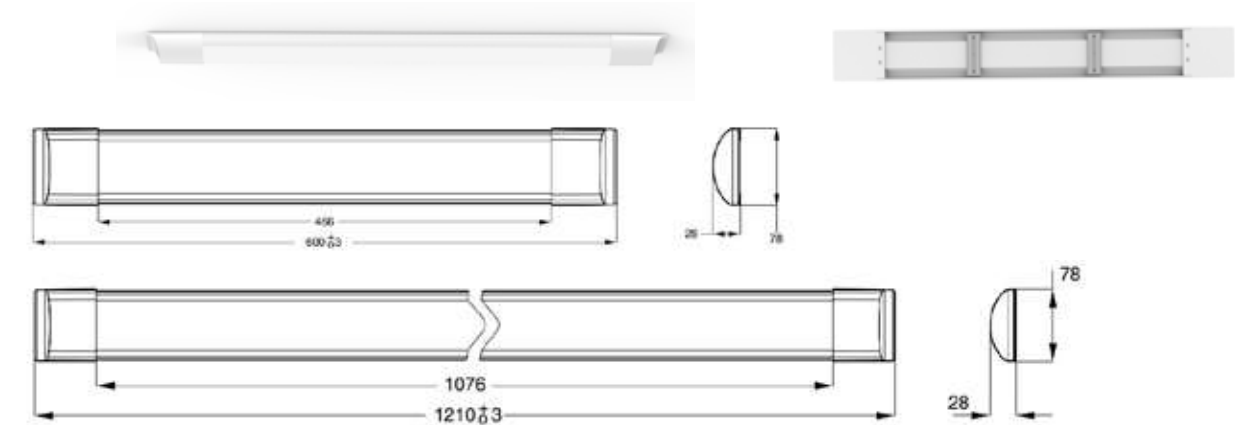
Batten IP65

We designed the LED IP65 Batten to be a direct replacement for conventional battens while providing energy savings. Your best choice for smooth linear lighting; the available range is in 20W & 40W with the sizes of 600mm and 1200mm. Featuring high grade polycarbonate diffuser and housing, they are suitable for commercial and industrial use where moisture or dust is prevalent. The Weatherproof Batten range offers cost effective reliability and weatherproof resistance.

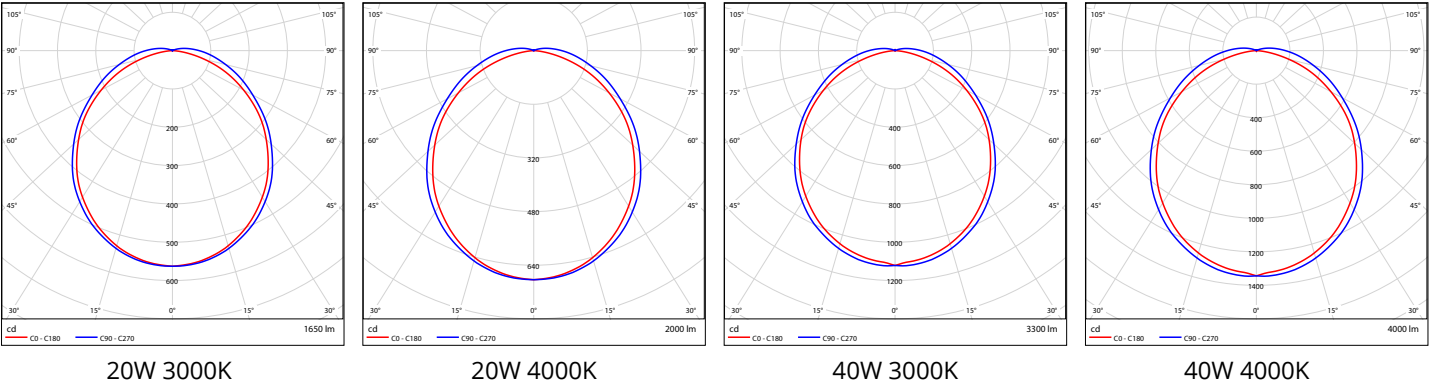


Benefits

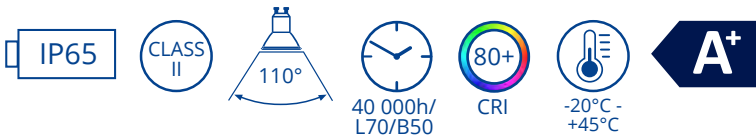
- Easy to install, requires small space due to compact size
- Seamless linear lighting without dark spots
- Healthy - UV-free & IR-free
- Environmental: save up to 60% energy
- High color rendering: CRI>80
- High efficiency: up to 100lm/w



Description	Wattage	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
LED Batten TU 20W xxx	20	600	78	28	0.45
LED Batten TU 40W xxx	40	1210	78	28	0.75



Batten IP65



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Batten IP65 - Static driver							
LED Batten TU 20W 600mm 3000K IP65	93114855	20	1 650	3000	83	600x28x78	0.45
LED Batten TU 20W 600mm 4000K IP65	93114856	20	2 000	4000	100	600x28x78	0.45
LED Batten TU 40W 1200mm 3000K IP65	93114857	40	3 300	3000	83	1210x28x78	0.75
LED Batten TU 40W 1200mm 4000K IP65	93114858	40	4 000	4000	100	1210x28x78	0.75



LED INDOOR SOLUTION

Bulkheads



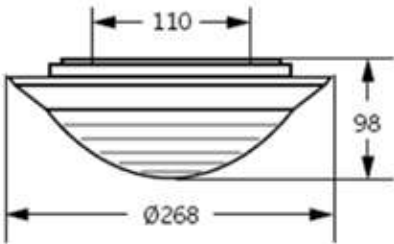
2D Bulkhead

A simple and elegant interior light fitting, designed to take a replaceable industry leading efficiency, classic shaped LED 2D lamp. This is a unique solution which makes the fixture future proof, as only an LED 2D replacement lamp is needed, once product has reached its end-of-life, or when an end user wishes to switch to a different colour temperature. It is a wall and ceiling LED luminaire that can be utilised in versatile application ranges including damp environments, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas and outside walls of buildings.

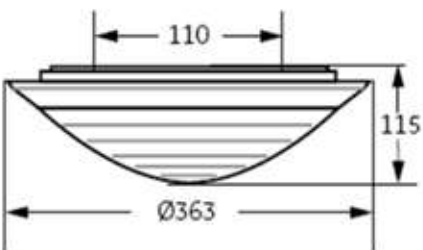


Benefits

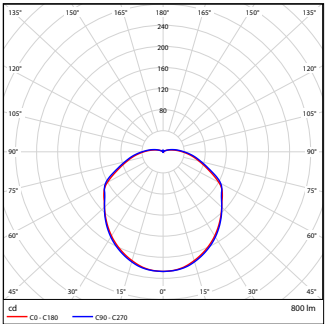
- Future-proof, upgradeable design
- Replaceable LED 2D lamp included
- High efficiency up to 138 lm/W
- L70 40,000 hours
- Min 80 CRI
- Clear and Opal diffuser options



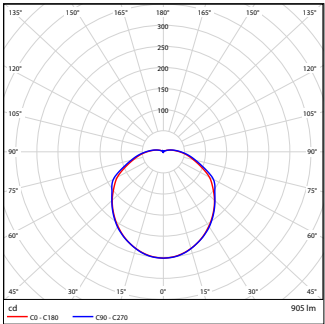
6.5W



12.5W



3500K



4000K



2D Bulkhead



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Diffuser type
2D Bulkhead - Static driver								
TUNG BH 2DC D27 6,5W 835 S	93118131	6.5	800	3500	123	Ø268 x 98	0.668	Clear
TUNG BH 2DC D36 12,5W 835 S	93118133	12.5	1 500	3500	120	Ø363 x 115	1.154	Clear
TUNG BH 2DO D27 6,5W 835 S	93118135	6.5	700	3500	108	Ø268 x 98	0.661	Opal
TUNG BH 2DO D36 12,5W 835 S	93118137	12.5	1 300	3500	104	Ø363 x 115	1.146	Opal
TUNG BH 2DC D36 12,5W 840 S	93118134	12.5	1 675	4000	133	Ø363 x 115	1.154	Clear
TUNG BH 2DO D36 12,5W 840 S	93118138	12.5	1 548	4000	122	Ø363 x 115	1.146	Opal
TUNG BH 2DC D27 6,5W 840 S	93118132	6.5	907	4000	138	Ø268 x 98	0.668	Clear
TUNG BH 2DO D27 6,5W 840 S	93118136	6.5	792	4000	123	Ø268 x 98	0.661	Opal



LED INDOOR SOLUTION

Bulkheads



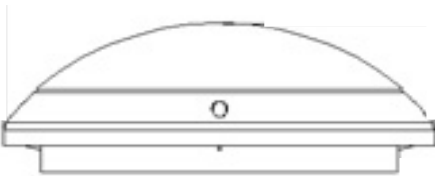
Integrated Bulkhead

A simple and elegant light fitting, designed with Integrated LED Light Module and dedicated optic, Integrated Bulkhead is for both interior and exterior applications, offering a comprehensive choice of versions including two sizes, opal diffuser, and an optional sensor function. It is a wall and ceiling LED luminaire easily utilised in versatile application ranges, including damp environments, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas, and outside walls of buildings

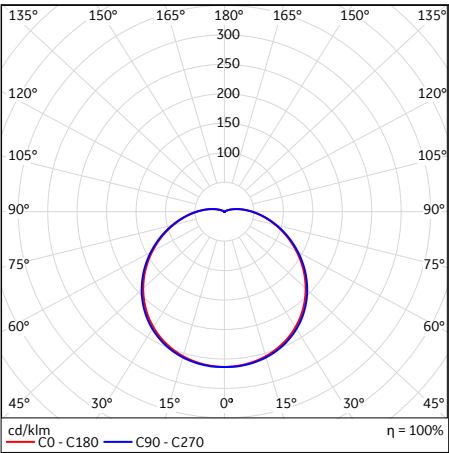


Benefits

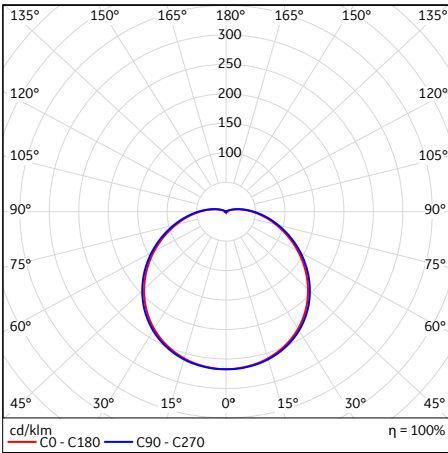
- Energy savings of up to 60% (compared to luminaires that use 2D fluorescent lamps)
- Integrated light module with optic
- Uniform light
- Fast, simple, and easy installation options
- Lasts ~4x longer than typical CFL bulkhead fixture
- High-protection rating (IP65) and high-impact resistance (IK10) make integrated LED bulkhead the ideal solution in challenging ambient conditions



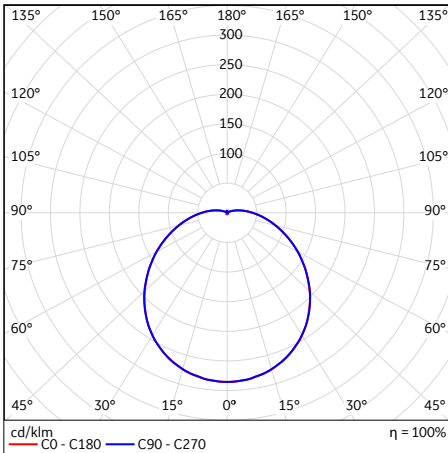
Range	Diameter	Height
D25	ø250mm	102mm
D30	ø300mm	109mm
D33	ø330mm	109mm



Ø250 9W



Ø250 17W



Ø300 25W

Integrated Bulkhead



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Additional feature
Integrated Bulkhead - Static driver								
LED Bulkhead G1 TU D25 9W 830 S NNN	93107549	9	855	3000	95	Ø250 x 102	0.69	Motion and daylight sensor
LED Bulkhead G1 TU D25 9W 840 S NNN	93107551	9	855	4000	95	Ø250 x 102	0.69	
LED Bulkhead G1 TU D33 9W 840 S NNN	93100223	9	950	4000	106	Ø330 x 109	1.03	
LED Bulkhead G1 TU D25 17W 830 S NNN	93107553	17	1 600	3000	94	Ø250 x 102	0.7	
LED Bulkhead G1 TU D25 17W 840 S NNN	93107555	17	1 600	4000	94	Ø250 x 102	0.7	
LED Bulkhead G1 TU D33 17W 840 S NNN	93100222	17	1 800	4000	106	Ø330 x 109	1.03	
LED Bulkhead G1 TU D30 25W 830 S NNN	93107557	25	2 400	3000	96	Ø300 x 109	1	
LED Bulkhead G1 TU D30 25W 840 S NNN	93107558	25	2 400	4000	96	Ø300 x 109	1	
LED Bulkhead G1 TU D25 9W 830 S NNM	93107550	9	855	3000	95	Ø250 x 102	0.74	
LED Bulkhead G1 TU D25 9W 840 S NNM	93107552	9	855	4000	95	Ø250 x 102	0.74	
LED Bulkhead G1 TU D33 9W 840 S NNM	93100225	9	950	4000	106	Ø330 x 109	1.08	3 hrs Emergency
LED Bulkhead G1 TU D25 17W 830 S NNM	93107554	17	1 600	3000	94	Ø250 x 102	0.75	
LED Bulkhead G1 TU D25 17W 840 S NNM	93107556	17	1 600	4000	94	Ø250 x 102	0.75	
LED Bulkhead G1 TU D33 17W 840 S NNM	93100224	17	1 800	4000	106	Ø330 x 109	1.08	
LED Bulkhead G1 TU D30 25W 830 S NNM	93107559	25	2 400	3000	96	Ø300 x 109	1.05	
LED Bulkhead G1 TU D30 25W 840 S NNM	93107560	25	2 400	4000	96	Ø300 x 109	1.05	
LED Bulkhead G1 TU D33 11W 840 S EMN	93102254	11	950	4000	86	Ø330 x 109	1.2	
LED Bulkhead G1 TU D33 19W 840 S EMN	93102253	19	1 800	4000	95	Ø330 x 109	1.2	
LED Bulkhead G1 TU D30 24W 830 S EMN	93108100	24	2 150	3000	90	Ø300 x 109	1.2	
LED Bulkhead G1 TU D30 24W 840 S EMN	93108101	24	2 150	4000	90	Ø300 x 109	1.2	
LED Bulkhead G1 TU D33 20W 840 S EMM	93102255	20	1 800	4000	90	Ø330 x 109	1.25	Motion and daylight sensor + 3hrs EM
LED Bulkhead G1 TU D30 24W 830 S EMM	93108102	24	2 150	3000	90	Ø300 x 109	1.25	
LED Bulkhead G1 TU D30 24W 840 S EMM	93108103	24	2 150	4000	90	Ø300 x 109	1.25	





Integrated Bulkhead - G2

Tungsram bulkhead range offer an excellent choice with simple and elegant design in 3 sizes. It is a wall and ceiling LED luminaire that can be used in versatile application areas including damp environments, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas and outside walls of buildings.

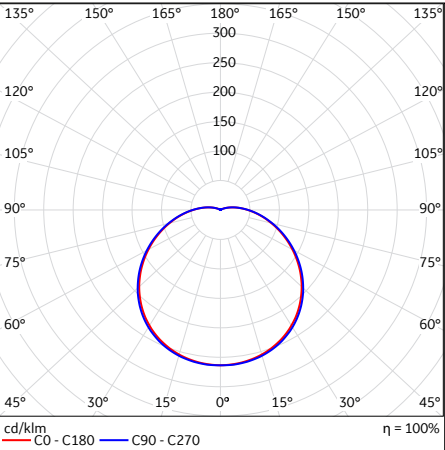


Benefits

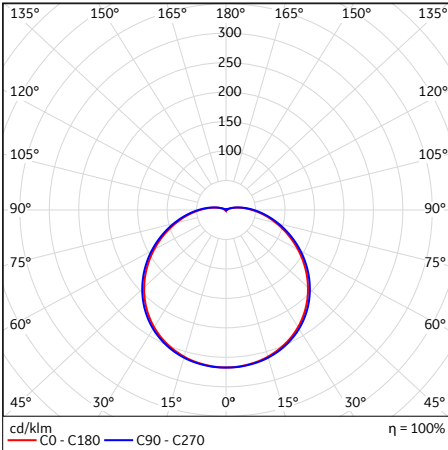
- Power: from 17W to 30W
- Control: DALI and Static control
- Finish: Opal diffuser, optional Eyelid accessory available
- Efficiency: up to 120lm/W
- Luminous flux: up to 3240lm
- Lifetime: 60.000 hours @ L80/B10
- 5 - Year Warranty
- Programmable Microwave Sensor Options



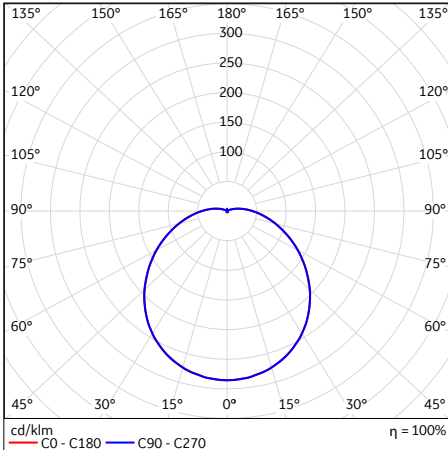
Range	Diameter	Height
D25	ø250mm	100mm
D30	ø300mm	106mm
D33	ø330mm	106mm



Ø250 9W



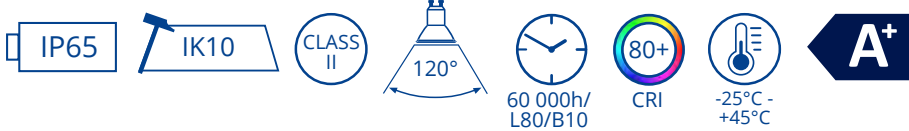
Ø250 17W



Ø300 25W

Integrated Bulkhead - G2

Available from Q2 only. For more information, please contact our customer service organization.



Product Description	Product Code	Wattage (W)	Control	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Ambient Temperature °C
Integrated Bulkhead - Static basic									
LED Bulkhead G2 TU D25 17W 840 S NNN	93119318	17	static	2040	4000	120	Ø250 x 100	0.5	-25 to +45
LED Bulkhead G2 TU D30 17W 840 S NNN	93119319	17	static	2040	4000	120	Ø300 x 106	0.7	-25 to +45
LED Bulkhead G2 TU D30 25W 840 S NNN	93119320	25	static	3000	4000	120	Ø300 x 106	0.7	-25 to +45
LED Bulkhead G2 TU D33 20W 840 S NNN	93119321	20	static	2400	4000	120	Ø330 x 106	0.7	-25 to +45
LED Bulkhead G2 TU D33 27W 840 S NNN	93119322	27	static	3240	4000	120	Ø330 x 106	0.7	-25 to +45
Integrated Bulkhead - DALI									
LED Bulkhead G2 TU D30 18W 840 D NNN	93119349	18	DALI	1980	4000	110	Ø300 x 106	0.8	-25 to +45
LED Bulkhead G2 TU D33 18W 840 D NNN	93119351	18	DALI	1980	4000	110	Ø330 x 106	0.8	-25 to +45
Integrated Bulkhead - Motion and daylight sensor									
LED Bulkhead G2 TU D25 17W 840 S NNM	93119333	17	static	2040	4000	120	Ø250 x 100	0.6	-25 to +45
LED Bulkhead G2 TU D30 17W 840 S NNM	93119334	17	static	2040	4000	120	Ø300 x 106	0.8	-25 to +45
LED Bulkhead G2 TU D30 25W 840 S NNM	93119335	25	static	3000	4000	120	Ø300 x 106	0.8	-25 to +45
LED Bulkhead G2 TU D33 17W 840 S NNM	93119336	17	static	2040	4000	120	Ø330 x 106	0.8	-25 to +45
LED Bulkhead G2 TU D33 27W 840 S NNM	93119337	27	static	3240	4000	120	Ø330 x 106	0.8	-25 to +45
Integrated Bulkhead - Emergency 3 hours									
LED Bulkhead G2 TU D30 20W 840 S EMN	93119361	20	static	2100	4000	105	Ø300 x 106	0.9	0 to +25
LED Bulkhead G2 TU D33 20W 840 S EMN	93119362	20	static	2100	4000	105	Ø330 x 106	0.9	0 to +25
LED Bulkhead G2 TU D33 30W 840 S EMN	93119363	30	static	3150	4000	105	Ø330 x 106	0.9	0 to +25
Integrated Bulkhead - Motion and daylight sensor + Emergency									
LED Bulkhead G2 TU D33 20W 840 S EMM	93119369	20	static	2100	4000	105	Ø330 x 106	0.9	0 to +25
LED Bulkhead G2 TU D33 30W 840 S EMM	93119370	30	static	3150	4000	105	Ø330 x 106	0.9	0 to +25
Integrated Bulkhead - Eyelid accessory									
LED Bulkhead G2 TU D30 Eyelid B	93119685								
LED Bulkhead G2 TU EM Battery	93119722								



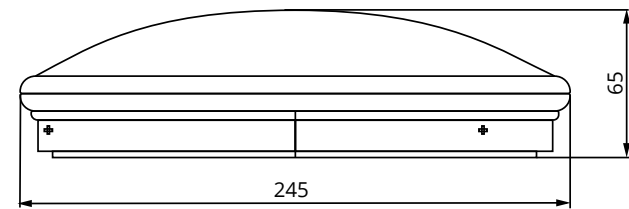
Ceiling Light

This is a simple and elegant light fitting, designed with Integrated LED Light Module for interior applications. A wall and ceiling LED luminaire, it can be utilised in versatile application ranges including entrance halls, receptions, stairwells, corridors, circulation routes, and rest areas of buildings.

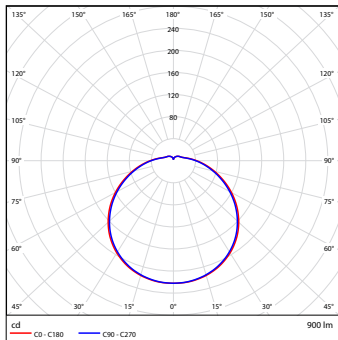


Benefits

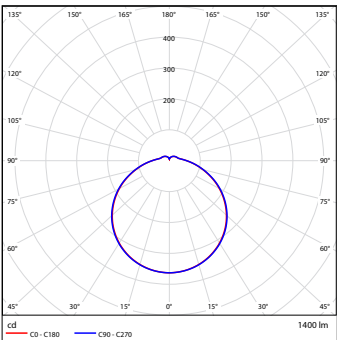
- Light weight: up to 0.62kg
- Max ambient temperature: +25°C, „horizont light” category
- Lifespan 25 000 hours (L70)
- Fast, simple and easy installation options
- Colour rendering index: CRI 80+



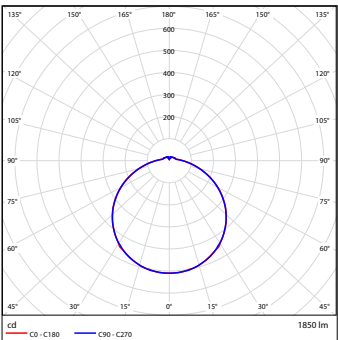
Wattage	D	H
12W	Ø245	65
18W	Ø315	65
24W	Ø365	65



12W 4000K



18W 4000K



24W 4000K

Ceiling Light

IP20

CLASS I

120°

25 000h/ L70/B50

80+ CRI

-20°C - +40°C

A+

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Ceiling Light - Static driver							
LED Ceiling G1 TU SC 12W 830 SN IP20	93115048	12	900	3000	75	Ø245 x 65	0.35
LED Ceiling G1 TU SC 12W 840 SN IP20	93115049	12	900	4000	75	Ø245 x 65	0.35
LED Ceiling G1 TU SC 18W 830 SN IP20	93115050	18	1 400	3000	78	Ø315 x 65	0.55
LED Ceiling G1 TU SC 18W 840 SN IP20	93115051	18	1 400	4000	78	Ø315 x 65	0.55
LED Ceiling G1 TU SC 24W 830 SN IP20	93115052	22	1 850	3000	77	Ø365 x 65	0.62
LED Ceiling G1 TU SC 24W 840 SN IP20	93115053	22	1 850	4000	77	Ø365 x 65	0.62



LED INDOOR SOLUTION

Floodlights



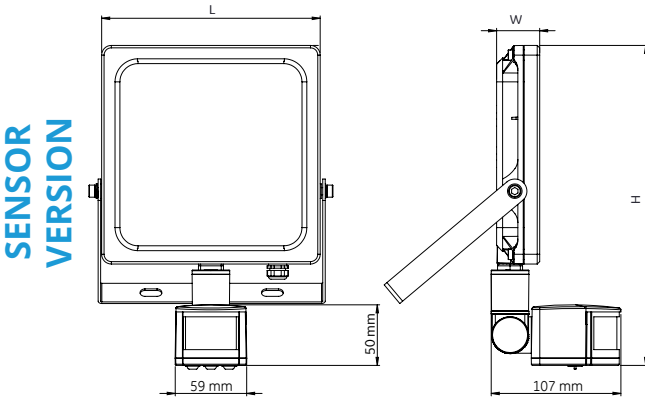
Floodlights

LED Floodlight is a universal, compact range of floodlights with six lumen output levels from 2.000 to 20.000lm and up to 130 LPW efficiency. The range is suitable for wall-mounted applications around building facades, ideal for the classic floodlighting of buildings, as well as lighting for gardens, paths near to buildings, garages or entrance ways. Tungsram LED Floodlight supplies immediate light without start-up or cooling-down times. Thanks to a robust aluminium housing and the safety glass cover, the floodlights are ideal for outdoor use.



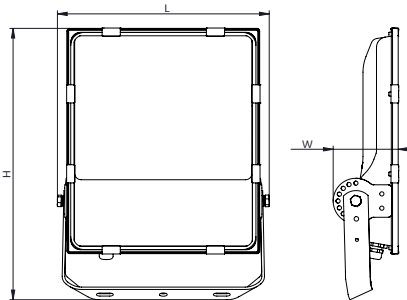
Benefits

- Replacement for floodlight luminaires with halogen lamps (up to 1500W)
- Energy savings up to 90% (compared to luminaires that use halogen)
- Homogenous light
- High-resistance against ambient air with humidity and high particle loads
- Static built-in driver
- 3000K, 4000K, 6500K versions



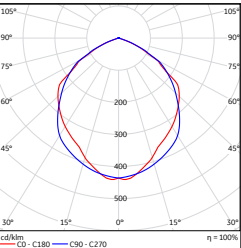
Type	L (mm)	W (mm)	H (mm)
LED Flood G1 TU S 20W...BM	263±1	36	163±1
LED Flood G1 TU S 30W...BM	303±1	36	202±1
LED Flood G1 TU S 50W...BM	323±1	36	216±1

STANDARD VERSION

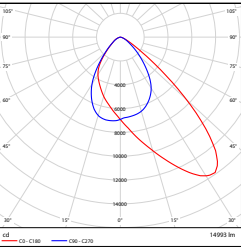


Type	L (mm)	W (mm)	H (mm)
LED Flood G1 TU S 20W...BN	163±1	36	163±1
LED Flood G1 TU S 30W...BN	203±1	36	202±1
LED Flood G1 TU S 50W...BN	223±1	36	216±1
LED Flood G1 TU S 75W...BN	286±1	91	368±1
LED Flood G1 TU S 115W...BN	337±1	91	419±1
LED Flood G1 TU S 150W...BN	373±1	91	450±1

Symmetric optic



Asymmetric optic



Up to 20000lm

Floodlights



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	IP	Dimensions (mm)	Beam Angle (°)	Weight (kg)
Floodlight Symmetrical - Static driver									
LED Flood G1 TU S 20W 830 SY ST BN	93115907	20	1 800	3000	90	65	163x36x163	100 without reflector	0.62
LED Flood G1 TU S 20W 840 SY ST BN	93101677	20	2 000	4000	100	65	163x36x163		0.62
LED Flood G1 TU S 20W 865 SY ST BN	93107561	20	2 000	6500	100	65	163x36x163		0.62
LED Flood G1 TU S 30W 830 SY ST BN	93115908	30	2 800	3000	93	65	203x36x202		0.97
LED Flood G1 TU S 30W 840 SY ST BN	93101678	30	3 000	4000	100	65	203x36x202		0.97
LED Flood G1 TU S 30W 865 SY ST BN	93107562	30	3 000	6500	100	65	203x36x202		0.97
LED Flood G1 TU S 50W 830 SY ST BN	93115909	50	5 600	3000	110	65	223x36x216		1.14
LED Flood G1 TU S 50W 840 SY ST BN	93101679	50	6 000	4000	120	65	223x36x216		1.14
LED Flood G1 TU S 50W 865 SY ST BN	93107563	50	6 000	6500	120	65	223x36x216		1.14
LED Flood G1 TU S 75W 830 SY ST BN	93115910	75	9 000	3000	120	66	286x91x368	120 without reflector	3.29
LED Flood G1 TU S 75W 840 SY ST BN	93101680	75	10 000	4000	133	66	286x91x368		3.29
LED Flood G1 TU S 75W 865 SY ST BN	93107564	75	10 000	6500	133	66	286x91x368		3.29
LED Flood G1 TU S 115W 830 SY ST BN	93115911	115	14 000	3000	122	66	337x91x419		4.20
LED Flood G1 TU S 115W 840 SY ST BN	93101681	115	15 000	4000	130	66	337x91x419		4.20
LED Flood G1 TU S 115W 865 SY ST BN	93107565	115	15 000	6500	130	66	337x91x419		4.20
LED Flood G1 TU S 150W 830 SY ST BN	93115912	150	18 500	3000	123	66	373x91x450		5.33
LED Flood G1 TU S 150W 840 SY ST BN	93101683	150	20 000	4000	133	66	373x91x450		5.33
LED Flood G1 TU S 150W 865 SY ST BN	93107566	150	20 000	6500	133	66	373x91x450		5.33
LED Flood G1 TU S 20W 840 SY ST BM *	93107575	20	2 000	4000	100	65	263x36x163	100 without reflector	0.62
LED Flood G1 TU S 20W 865 SY ST BM *	93107576	20	2 000	6500	100	65	263x36x163		0.62
LED Flood G1 TU S 30W 840 SY ST BM *	93107577	30	3 000	4000	100	65	303x36x202		0.97
LED Flood G1 TU S 30W 865 SY ST BM *	93107578	30	3 000	6500	100	65	303x36x202		0.97
LED Flood G1 TU S 50W 840 SY ST BM *	93107579	50	6 000	4000	120	65	323x36x216		1.14
LED Flood G1 TU S 50W 865 SY ST BM *	93107580	50	6 000	6500	120	65	323x36x216		1.14
LED Flood G1 TU S 20W 840 SY ST BDD **	93118605	20	2 000	4000	100	65	163x36x163		0.62
LED Flood G1 TU S 30W 840 SY ST BDD **	93118616	30	3 000	4000	100	65	203x36x202		0.97
LED Flood G1 TU S 50W 840 SY ST BDD **	93118617	50	6 000	4000	120	65	223x36x216		1.14
Floodlight Asymmetrical - Static driver									
LED Flood G1 TU S 115W 840 AS ST BN	93101682	115	14 375	4000	125	66	373x91x450	45x85 asym.	5.33
LED Flood G1 TU S 150W 840 AS ST BN	93101684	150	18 000	4000	120	66	373x91x450		5.33
Accessories									
IP68 connector for Floodlight/DL01-3A	93118306								

* With Motion Sensor
** Dusk till Dawn Floodlight



LED INDOOR SOLUTION

Floodlights



Public areas



Car park / Garage



Industrial



Building facades



Retail

Floodlights G3

LED Floodlight is a universal, compact range of floodlights with six lumen output levels from 2.000 to 24.000lm and up to 130 LPW efficiency. The range is suitable for wall-mounted applications around building facades, ideal for the classic floodlighting of buildings, as well as lighting for gardens, paths near to buildings, garages or entrance ways. Tungsram LED Floodlight supplies immediate light without start-up or cooling-down times. Thanks to a robust aluminium housing and the safety glass cover, the floodlights are ideal for outdoor use.



Benefits

- High impact and ingress protection level
- High efficiency up to 130lm/W
- Robust, reliable design
- Multivoltage driver for all products without sensor.
- CCT: 3000K, 4000K and 6500K options
- Long life: 50 000h @ L80B20



50W



70W



100W



150W



Floodlights G3

Available from Q2 only. For more information, please contact our customer service organization.



50 000h/
L80B20

80
CRI

-30°C -
+50°C

Product Description	Product Code	Wattage (W)	Lumen (lm)	System Efficiency (lm/W)	CCT (K)	IK	Beam angle (°)	Voltage (V)	Dimensions (mm)
Floodlight G3 Symmetrical									
LED Flood G3 TU S 10W 830 SY MV BN	93119420	10	1150	115	3000	IK07	110	110-240	143x117x33
LED Flood G3 TU S 10W 840 SY MV BN	93119421	10	1200	120	4000	IK07	110	110-240	143x117x33
LED Flood G3 TU S 10W 865 SY MV BN	93119422	10	1200	120	6500	IK07	110	110-240	143x117x33
LED Flood G3 TU S 20W 830 SY MV BN	93119423	20	2300	115	3000	IK07	110	110-240	134x158x34
LED Flood G3 TU S 20W 840 SY MV BN	93119424	20	2400	120	4000	IK07	110	110-240	134x158x34
LED Flood G3 TU S 20W 865 SY MV BN	93119425	20	2400	120	6500	IK07	110	110-240	134x158x34
LED Flood G3 TU S 30W 830 SY MV BN	93119426	30	3450	115	3000	IK07	110	110-240	174x199x44
LED Flood G3 TU S 30W 840 SY MV BN	93119427	30	3600	120	4000	IK07	110	110-240	174x199x44
LED Flood G3 TU S 30W 865 SY MV BN	93119428	30	3600	120	6500	IK07	110	110-240	174x199x44
LED Flood G3 TU S 50W 830 SY MV BN	93119429	50	6250	125	3000	IK08	110	110-240	229x261x48
LED Flood G3 TU S 50W 840 SY MV BN	93119430	50	6500	130	4000	IK08	110	110-240	229x261x48
LED Flood G3 TU S 50W 865 SY MV BN	93119431	50	6500	130	6500	IK08	110	110-240	229x261x48
LED Flood G3 TU S 70W 830 SY MV BN	93119432	70	8750	125	3000	IK08	110	110-240	272x315x60
LED Flood G3 TU S 70W 840 SY MV BN	93119433	70	9100	130	4000	IK08	110	110-240	272x315x60
LED Flood G3 TU S 70W 865 SY MV BN	93119434	70	9100	130	6500	IK08	110	110-240	272x315x60
LED Flood G3 TU S 100W 830 SY MV BN	93119435	100	12500	125	3000	IK08	110	110-240	272x315x60
LED Flood G3 TU S 100W 840 SY MV BN	93119436	100	13000	130	4000	IK08	110	110-240	272x315x60
LED Flood G3 TU S 100W 865 SY MV BN	93119437	100	13000	130	6500	IK08	110	110-240	272x315x60
LED Flood G3 TU S 150W 830 SY MV BN	93119438	150	18750	125	3000	IK08	110	110-240	297x351x60
LED Flood G3 TU S 150W 840 SY MV BN	93119439	150	19500	130	4000	IK08	110	110-240	297x351x60
LED Flood G3 TU S 150W 865 SY MV BN	93119440	150	19500	130	6500	IK08	110	110-240	297x351x60
LED Flood G3 TU S 200W 830 SY MV BN	93119441	200	23000	115	3000	IK08	110	110-240	347x408x60
LED Flood G3 TU S 200W 840 SY MV BN	93119442	200	24000	120	4000	IK08	110	110-240	347x408x60
LED Flood G3 TU S 200W 865 SY MV BN	93119443	200	24000	120	6500	IK08	110	110-240	347x408x60
Floodlight G3 Asymmetrical									
LED Flood G3 TU S 100W 830 AS MV BN	93119454	100	11000	110	3000	IK08	40x80	110-240	272x315x60
LED Flood G3 TU S 100W 840 AS MV BN	93119456	100	11500	115	4000	IK08	40x80	110-240	272x315x60
LED Flood G3 TU S 150W 830 AS MV BN	93119455	150	16500	110	3000	IK08	40x80	110-240	297x351x60
LED Flood G3 TU S 150W 840 AS MV BN	93119457	150	17250	115	4000	IK08	40x80	110-240	297x351x60
Floodlight G3 Symmetric with Motion sensor									
LED Flood G3 TU S 10W 840 SY MV BM	93119444	10	1200	120	4000	IK07	110	220-240	-
LED Flood G3 TU S 20W 840 SY MV BM	93119445	20	2400	120	4000	IK07	110	220-240	-
LED Flood G3 TU S 20W 865 SY MV BM	93119446	20	2400	120	6500	IK07	110	220-240	-
LED Flood G3 TU S 30W 840 SY MV BM	93119447	30	3600	120	4000	IK07	110	220-240	-
LED Flood G3 TU S 30W 865 SY MV BM	93119448	30	3600	120	6500	IK07	110	220-240	-
LED Flood G3 TU S 50W 840 SY MV BM	93119449	50	6500	130	4000	IK08	110	220-240	-
LED Flood G3 TU S 50W 865 SY MV BM	93119450 --	50	6500	130	6500	IK08	110	220-240	-
Floodlight G3 Symmetric with Dusk till Dawn sensor									
LED Flood G3 TU S 20W 840 SY MV BDD	93119451	20	2400	120	4000	IK07	110	220-240	-
LED Flood G3 TU S 30W 840 SY MV BDD	93119452	30	3600	120	4000	IK07	110	220-240	-
LED Flood G3 TU S 50W 840 SY MV BDD	93119453	50	6500	130	4000	IK07	110	220-240	-

LED INDOOR SOLUTION

Floodlights



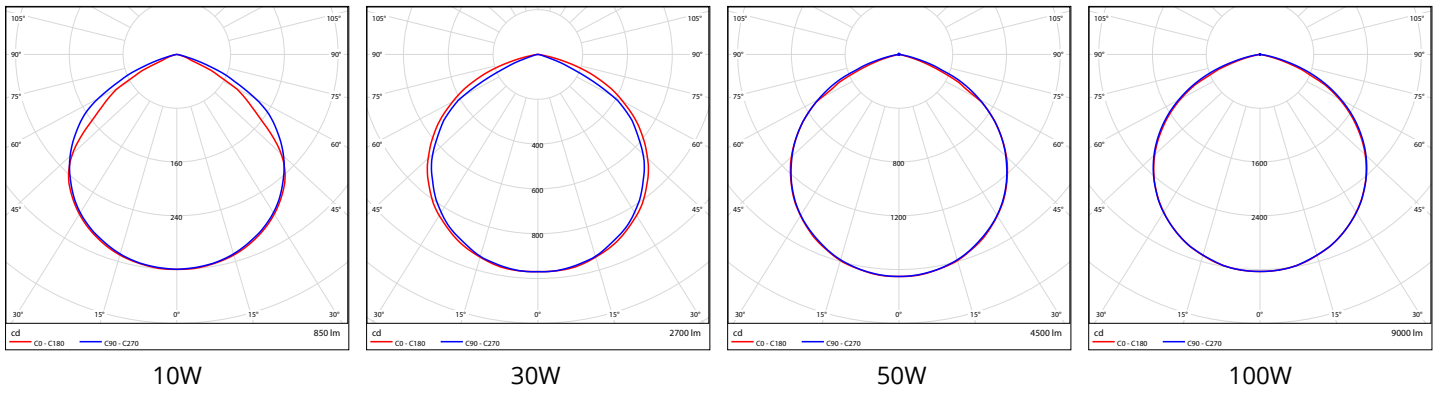
Floodlight Symmetrical Value

LED Floodlight is a universal, compact range of floodlights with lumen output levels from 800 to 9000 lumen and up to 90 LPW efficiency. The range is suitable for various applications wall-mounted around building facades, ideal for the classic floodlighting of buildings as well as lighting for gardens, paths near to buildings, garages, entrance ways and drives. Compared to traditional floodlights, Tungsram LED Floodlight supplies immediate light without start-up or cooling-down times. Thanks to a robust aluminum housing with safety glass cover, the floodlights are ideal for outdoor use.

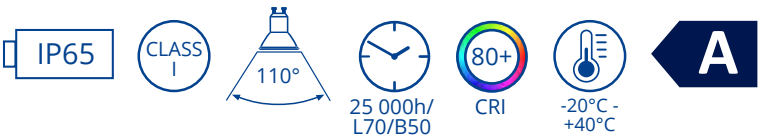
Benefits

- Replace halogen lamps with floodlight luminaires (up to 750W)
- Energy savings up to 80% (compared to luminaires that use halogen)
- Homogenous light
- High resistance against ambient air with humidity and high particle loads (IP65)

Wattage	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
10W	97	103	23.5	0.284
30W	190	242	41	1.085
50W	225	285	48	1.529
100W	262	340	48	2.223



Floodlight Symmetrical Value



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)
Floodlight Symmetrical Value - Static driver							
LED Flood G2 TU S 10W 830 SY ST GN	93115851	10	800	3000	80	103x97x23.5	0.28
LED Flood G2 TU S 10W 840 SY ST GN	93115847	10	850	4000	85	103x97x23.5	0.28
LED Flood G2 TU S 30W 830 SY ST GN	93115852	30	2 550	3000	85	242x190x41	1.09
LED Flood G2 TU S 30W 840 SY ST GN	93115848	30	2 700	4000	90	242x190x41	1.09
LED Flood G2 TU S 50W 830 SY ST GN	93115853	50	4 250	3000	85	285x225x48	1.53
LED Flood G2 TU S 50W 840 SY ST GN	93115849	50	4 500	4000	90	285x225x48	1.53
LED Flood G2 TU S 100W 830 SY ST GN	93115854	100	8 500	3000	85	340x262x48	2.22
LED Flood G2 TU S 100W 840 SY ST GN	93115850	100	9 000	4000	90	340x262x48	2.22



LED INDOOR SOLUTION

Emergency solution



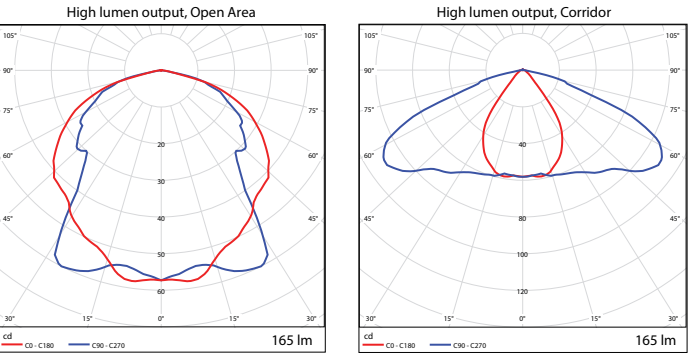
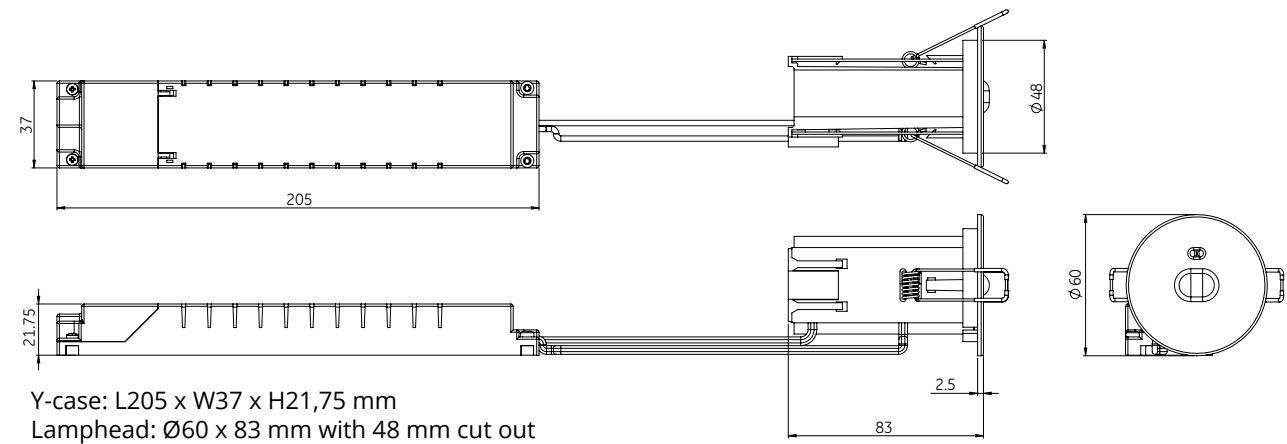
LED Emergency Downlight Recessed

The Emergency Downlighter consists of an LED lamphead with integrated battery, status indicator LED and an emergency lighting unit to operate the single LED in maintained and non-maintained mode. The optically efficient lenses ensure optimum performance for corridor or open area applications. The safety-compliant downlight emergency lighting is for recessed mounting and ensures emergency escape route lighting in buildings. The integrated selftest function corresponds the European standard.

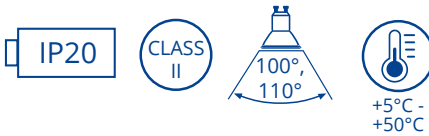


Features

- 3 h operating time
- Battery charging time 24 h
- Selftest as per IEC 62034
- Status display LED
- Easy 3-pole terminal connector (L,N,PE)
- Different lenses for emergency escape route lighting (elliptical)
- Simple recessed mounting of preinstalled luminaire and driver (ceiling min 5mm, max 20mm)
- Strain relief
- LiFePO4-batteries 3.2V-4.5Ah



LED Emergency Downlight Recessed



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Dimension (mm)	Beam angle (°)	Weight (kg)
LED Emergency Downlight Recessed – Static driver							
Emergency Downlight G1 TU 3 HL O Li N	93100228	3	165	6000	Ø60x83	100	0.233
Emergency Downlight G1 TU 3 HL C Li N	93100229	3	165	6000	Ø60x83	110	0.233
Emergency Downlight G1 TU 3 HL O Li S	93100230	3	165	6000	Ø60x83	100	0.233
Emergency Downlight G1 TU 3 HL C Li S	93100231	3	165	6000	Ø60x83	110	0.233
LED Emergency Downlight Recessed – DALI driver							
Emergency Downlight G1 TU 3 HL O Li D	93100232	3	165	6000	Ø60x83	100	0.233
Emergency Downlight G1 TU 3 HL C Li D	93100233	3	165	6000	Ø60x83	110	0.233





Healthcare



General
lighting



Education



Retail



Office

LED Emergency Converter Kit

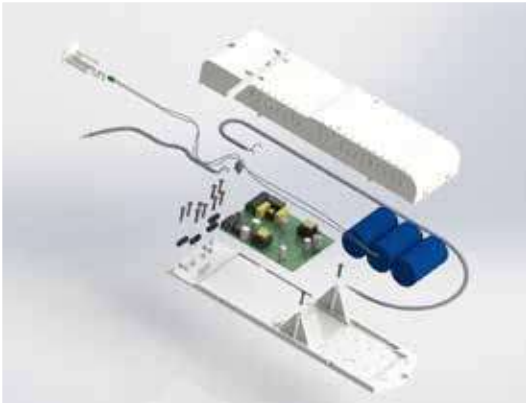
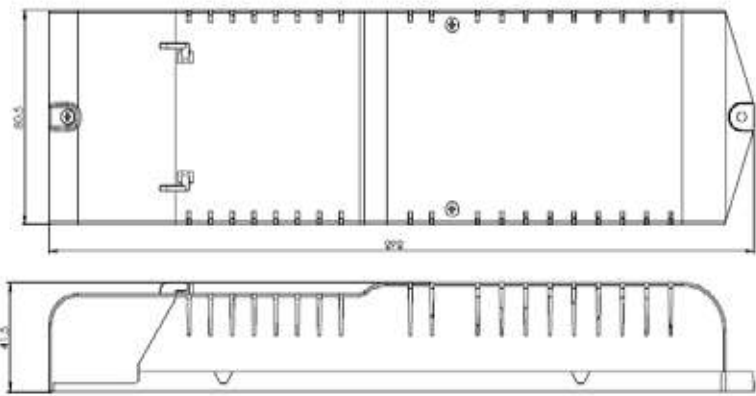
This emergency lighting unit is a conversion kit remote box for operating Tungsram LED luminaires in emergency mode. The conversion kit is suitable for converting existing light fittings to emergency operation. It provides a sensible solution when fitting dedicated emergency luminaires is not possible. It supports a variety of LED light sources offering standard, self-test, and DALI self-test. Compact polycarbonate case contains electronics and battery for external installation outside the luminaire for usage in protection class II luminaires.



Benefits

- Constant power output in emergency mode
- Ground connection for LED-driver and LED module on main terminal
- Suitable for escape route lighting, back-up lighting and particularly hazardous workplaces
- Deep discharge protection
- Premium Lithium batteries (LiFePO4) - compared to lead acid batteries

- Premium Lithium batteries (LiFePO4) - compared to lead acid batteries - offer significant advantages:
 - **Safety and stability:** In case of hazardous events, such as collision or short-circuiting, this type of battery does not explode or catch fire, significantly reducing any chance of harm. It can reach 350°C to 500°C.
 - **Environmental Impact:** The batteries are non-toxic, non-contaminating, and contain no rare-earth metals, making them an environmentally conscious choice. Lead acid and nickel oxide lithium batteries, by comparison, carry significant environmental risk.
 - **Light weight:** The dimension of a battery of the same size is 2/3 of the size of a lead acid battery, and a third of the weight of a lead acid battery.
 - **Performance:** The batteries perform well in several areas, especially life span. Service life is usually 'least five to six years. Energy density is typically lower than certain counterparts, such as cobalt and nickel oxide. Battery charging time is also considerably reduced, another convenient performance perk.
 - **Improved discharge efficiency:** Ability to deep cycle while maintaining performance. The minimal maintenance and infrequent replacement makes lithium a worthwhile investment and smart long-term solution.



LED Emergency Converter Kit



+5°C -
+35°C

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Dimensions (mm)	Weight (kg)	Pack Qty
LED Emergency Converter Kit - Static driver							
Emergency Kit G1 TU 3 Li N	93100237	3	-	6000	292x81x41	0.415	1
Emergency Kit G1 TU 3 Li S	93100238	3	-	6000	292x81x41	0.415	1
LED Emergency Converter Kit - DALI driver							
Emergency Kit G1 TU 3 Li D	93100239	3	-	6000	292x81x41	0.415	1



Emergency EXIT Signs

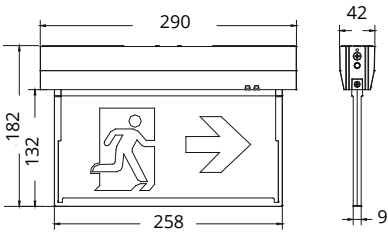
Tungram EXITs signs are a reliable but affordable solution in any project from public buildings to factory sites.



Benefits

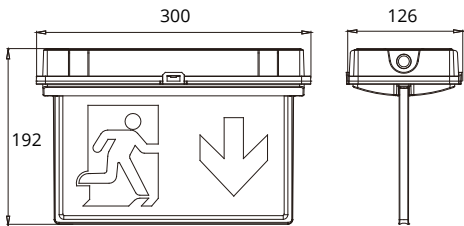
- More than 3 hours operation time in emergency situation
- Recessed, Surface mount and wall mount Installation
- Maintained and Maintained/Non-maintained options to be chosen during installation (except SKU: 93118892)
- Long life: 50.000 hours
- Marker panels arrive with 4 replaceable signs: left, right and 2 down directions





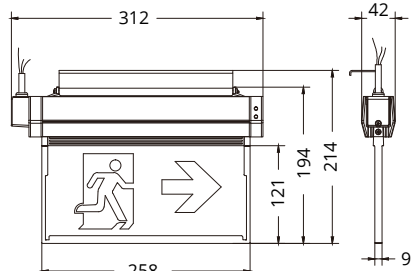
93118890





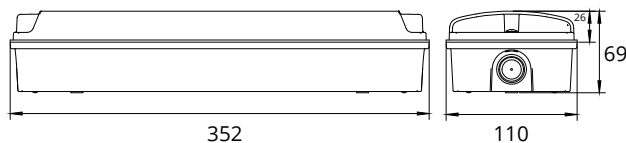
93118891





93118892





93118893

Emergency EXIT Signs

Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Rated life (h)	Operation Mode	Self test	Battery cycles	Battery type	IP	Mounting options
LED Emergency Exit signs - Static driver											
Emergency Exit G1 TU 3 LI S SM	93118890	5,5	NA	6500	50 000	Maintained/	Yes	2000	LiFePO4	IP40	Ceiling
Emergency Exit G1 TU 3 LI S RM	93118891	5,5	50	6500	50 000	No-Maintained	Yes	2000	LiFePO4	IP65	Recessed
Emergency Exit G1 TU 3 LI S WM	93118892	5,5	NA	6500	50 000	Maintained	Yes	2000	LiFePO4	IP40	Ceiling or wall
Emergency Bulkhead G1 TU 3 LI S WM	93118893	5	150	6500	50 000	Maintained/No-Maintained	No	500	Ni-Cd	IP65	Surface
Emergency Exit Suspension Kit	93118865										

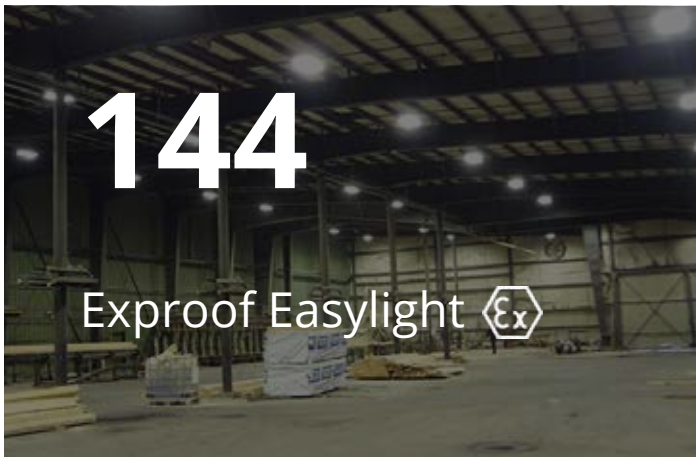
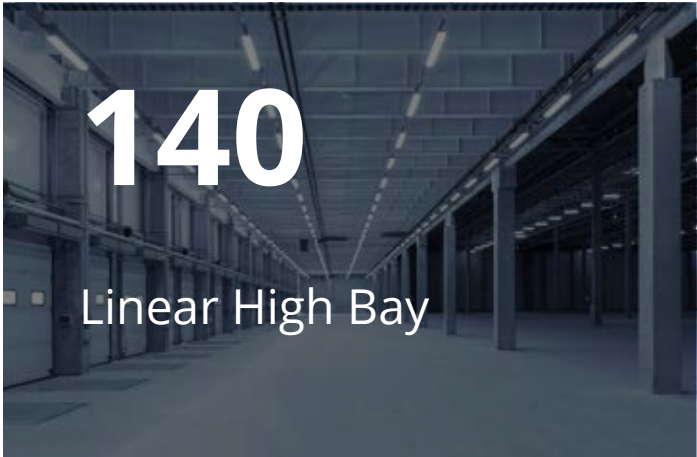
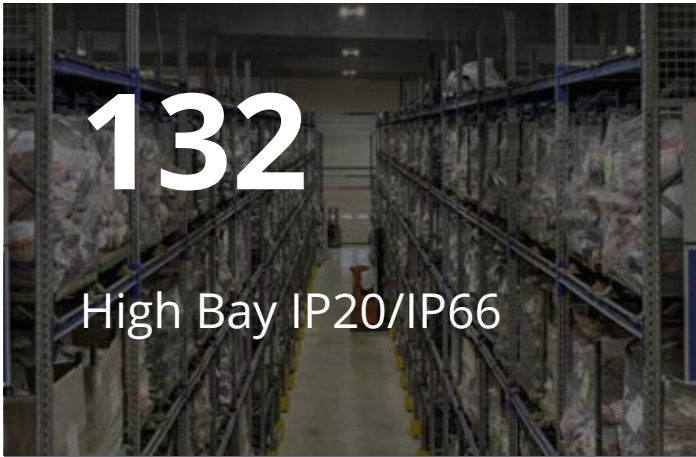
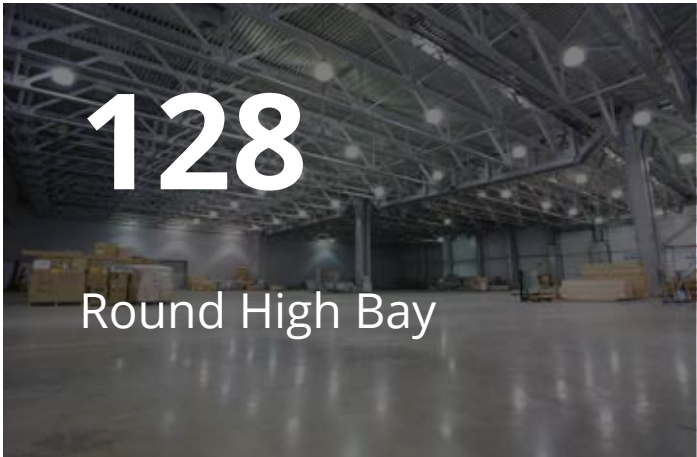




INDUSTRIAL SOLUTIONS

Light affects how we perform at work and how we perceive the professional environment around us. Selecting the optimal light for industrial facilities impacts not only trivial practicalities such as accident prevention but also our coworkers' psychological state.

Our range of industrial products helps you take full advantage of the safety and cost-cutting opportunities presented by today's advanced LED lighting systems. In typical cases of facilities, 20% of all electric costs are due to their lighting. We offer an opportunity to reduce these costs significantly, with a marginal investment. Get to know more about lighting opportunities that can help you reconsider and reduce your costs while establishing a better place for quality work to happen.



LED INDOOR SOLUTION

Round High Bay



LED Round High Bay IP65 G1

The Tungsram Round High Bay G1 range has a massive industrial aesthetic that makes it suitable for applications in a facility that has high ceilings and requires illumination of six meter or more. It is designed as a simple point-to-point replacement for conventional high-bay luminaires with 250 and 400 W mercury vapor or metal halide lamps. The 4-5x longer lifetime vs HID lamps provides significant reduction in maintenance costs without the use of mercury and other hazardous materials. Its light flow can be dimmed from 0-10V or DALI, allowing us to adjust the brightness of the light emitted, in function with the needs of each moment.



Benefits

- The luminaire can be installed on the existing grid.
- Optimized weight and size due to compact design
- High resistance against ambient air with humidity and high-particle loads
- Simple refurbishment solution thanks to use of existing installation points with freely positionable mounting clips
- Fast and simple installation due to quick connector
- Aluminium body to optimize heat performance



High Bay Reflector 70°



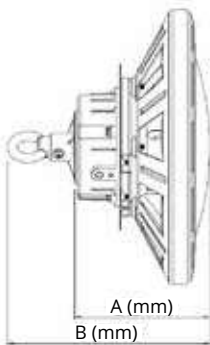
High Bay Reflector 90°



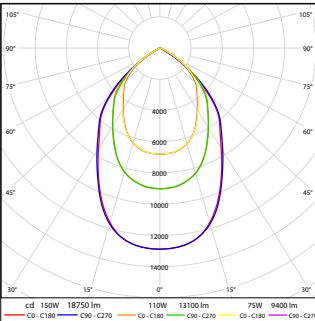
High Bay Surface Mount Kit



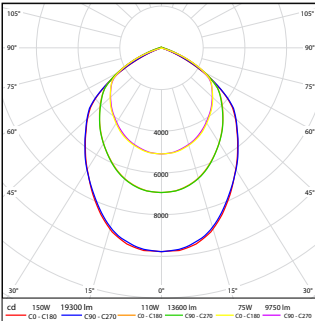
High Bay Chain



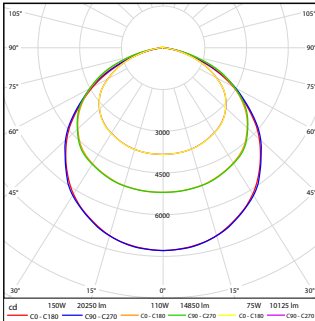
Product	Wattage	ø (mm)	A (mm)	B (mm)
High Bay TU Gen1 70W	70w	300	142	213
High Bay TU Gen1 75W	75w	300	142	213
High Bay TU Gen1 105W	105w	300	142	213
High Bay TU Gen1 110W	110w	300	142	213
High Bay TU Gen1 140W	140w	300	131	202
High Bay TU Gen1 150W	150w	300	131	202
High Bay TU Gen1 200W	200w	360	131	202



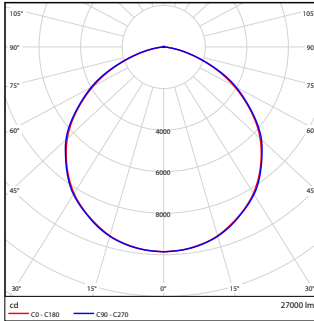
75-110-150W - 70°



75-110-150W - 90°

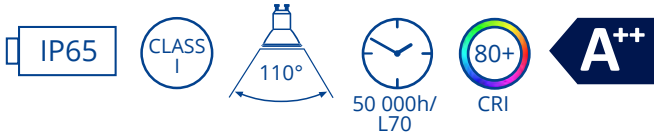


75-110-150W - 110°



200W - 110°

LED Round High Bay IP65 G1



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Pack Qty
Round High Bay IP65 Gen1 - 0-10V driver								
High Bay TU Gen1 70W 4000K 2A 110°	93115795	70	10 150	4000	145	Ø300x213	2.43	1
High Bay TU Gen1 70W 6500K 2A 110°	93115796	70	10 150	6500	145	Ø300x213	2.43	1
High Bay TU Gen1 75W 4000K 2A 110°	93103286	75	10 125	4000	135	Ø300x213	2.43	1
High Bay TU Gen1 105W 4000K 2A 110°	93115793	105	15 225	4000	145	Ø300x213	2.43	1
High Bay TU Gen1 105W 6500K 2A 110°	93115797	105	15 225	6500	145	Ø300x213	2.43	1
High Bay TU Gen1 110W 4000K 2A 110°	93101700	110	15 525	4000	135	Ø300x213	2.43	1
High Bay TU Gen1 140W 4000K 2A 110°	93115794	140	20 300	4000	145	Ø302x213	2.5	1
High Bay TU Gen1 140W 6500K 2A 110°	93115798	140	20 300	6500	145	Ø302x213	2.5	1
High Bay TU Gen1 200W 4000K 2A 110°	93101703	200	27 000	4000	135	Ø360x207	3.04	1
High Bay TU Gen1 200W 6500K 2A 110°	93103290	200	27 000	6500	135	Ø360x207	3.04	1
Round High Bay IP65 Gen1 - DALI driver								
High Bay TU Gen1 150W 4000K 2D 110°	93101702	150	20 250	4000	135	Ø302x213	2.5	1
High Bay TU Gen1 200W 4000K 2D 110°	93101704	200	27 000	4000	135	Ø360x207	3.04	1
LED Round High Bay IP65 Accessories								
High Bay Chain	93105658	-	-	-	-	-	-	-
High Bay Reflector 90°	93105659	-	-	-	-	-	-	-
High Bay Reflector 70°	93105660	-	-	-	-	-	-	-
High Bay Reflector 90° 200W	93111515	-	-	-	-	-	-	-
High Bay Reflector 70° 200W	93112596	-	-	-	-	-	-	-
High Bay Surface mount Kit	93105661	-	-	-	-	-	-	-



LED INDOOR SOLUTION

Round High Bay



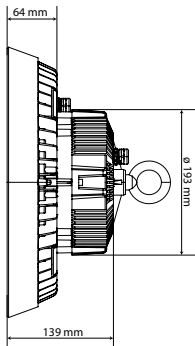
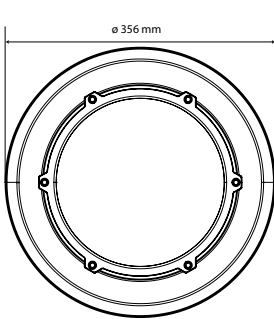
Round High Bay IP65 G2
HoneyComb

The IP65 Round High Bay with HoneyComb® optic is designed to replace traditional high ceiling fixture applications. The HoneyComb®, optic together with the specially designed housing frame, provides a dual anti-glare and more comfortable UGR level in all industrial areas (<UGR22, RG0). The lower glare means a more comfortable light for your working environment while the efficacy is above 135lm/W, which provides additional savings. The robust design offers a long lifetime solution for all applications.



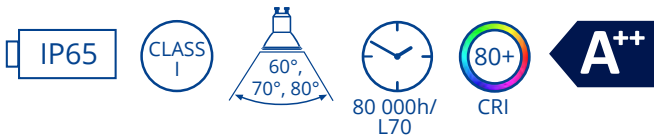
Benefits

- Designed for replacement of conventional high-bays with HID lamps up to 400W
- High luminous efficiency and energy savings up to 70% compared to conventional high bay fixtures
- An affordable solution for retrofit or new installations
- Different accessories for available for versatile installation: suspension chain or metal bracket
- Installation height is up to 20m



Model	Wattage	Fixture diameter (mm)	Fixture height incl driver and hook (mm)	Weight incl driver (kg)	Driver size (mm)	Control
High Bay TU Gen2 90Wxxx	90W	280	190	2.66	Ø132*71	DALI
High Bay TU Gen2 100Wxxx	100W	280	190	2.66	Ø132*71	Static/1-10V/Sensor
High Bay TU Gen2 140Wxxx	140W	360	210	3.08	Ø151*71	DALI
High Bay TU Gen2 150Wxxx	150W	360	210	3.08	Ø151*71	DALI
High Bay TU Gen2 190Wxxx	200W	360	210	5.50	Ø182*71	Static/1-10V/Sensor
High Bay TU Gen2 200Wxxx	230W	360	210	5.50	Ø182*71	DALI

Round High Bay IP65 G2
HoneyComb



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	Beam angle (°)	UGR	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Pack Qty
Round High Bay IP65 Gen2 HoneyComb - Static driver										
High Bay TU Gen2 100W-4000K-2S-70°	93114906	100	13 500	4000	70	<23.2	135	Ø280x190	2.66	1
High Bay TU Gen2 100W-4000K-2M-70° *	93114908	100	13 500	4000	70	<22.7	135	Ø280x190	2.66	1
High Bay TU Gen2 100W-5000K-2S-70°	93114910	100	13 500	5000	70	<23	135	Ø280x190	2.66	1
High Bay TU Gen2 100W-5000K-2M-70° *	93114912	100	13 500	5000	70	<23.1	135	Ø280x190	2.66	1
High Bay TU Gen2 140W-4000K-2S-80°	93114914	140	18 900	4000	80	<25.2	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-4000K-2S-60°	93114915	140	18 900	4000	60	<21	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-4000K-2M-80° *	93114918	140	18 900	4000	80	<24.7	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-4000K-2M-60° *	93114919	140	18 900	4000	60	<21	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-5000K-2S-80°	93114922	140	18 900	5000	80	<24.8	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-5000K-2S-60°	93114923	140	18 900	5000	60	<21	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-5000K-2M-80° *	93114926	140	18 900	5000	80	<24.7	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-5000K-2M-60° *	93114927	140	18 900	5000	60	<21	135	Ø360x210	3.08	1
High Bay TU Gen2 190W-4000K-2S-80°	93114930	190	24 700	4000	80	<25.6	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-4000K-2S-60°	93114931	190	24 700	4000	60	<22.1	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-4000K-2M-80° *	93114934	190	24 700	4000	80	<26	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-4000K-2M-60° *	93114935	190	24 700	4000	60	<22.1	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-5000K-2S-80°	93114938	190	24 700	5000	80	<25.6	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-5000K-2S-60°	93114939	190	24 700	5000	60	<22.1	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-5000K-2M-80° *	93114942	190	24 700	5000	80	<26	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-5000K-2M-60° *	93114943	190	24 700	5000	60	<22.1	130	Ø360x210	5.50	1
Round High Bay IP65 Gen2 HoneyComb - 1-10V driver										
High Bay TU Gen2 100W-4000K-2A-70°	93114907	100	13 500	4000	70	<23.5	135	Ø280x190	2.66	1
High Bay TU Gen2 100W-5000K-2A-70°	93114911	100	13 500	5000	70	<23.5	135	Ø280x190	2.66	1
High Bay TU Gen2 140W-4000K-2A-80°	93114916	140	18 900	4000	80	<25.2	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-4000K-2A-60°	93114917	140	18 900	4000	60	<21	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-5000K-2A-80°	93114924	140	18 900	5000	80	<25.2	135	Ø360x210	3.08	1
High Bay TU Gen2 140W-5000K-2A-60°	93114925	140	18 900	5000	60	<21	135	Ø360x210	3.08	1
High Bay TU Gen2 190W-4000K-2A-80°	93114932	190	24 700	4000	80	<26	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-4000K-2A-60°	93114933	190	24 700	4000	60	<22.1	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-5000K-2A-80°	93114940	190	24 700	5000	80	<26	130	Ø360x210	5.50	1
High Bay TU Gen2 190W-5000K-2A-60°	93114941	190	24 700	5000	60	<22.1	130	Ø360x210	5.50	1
Round High Bay IP65 Gen2 HoneyComb - DALI driver										
High Bay TU Gen2 90W-4000K-2D-70°	93114909	90	12 150	4000	70	<22.5	135	Ø280x190	2.66	1
High Bay TU Gen2 90W-5000K-2D-70°	93114913	90	12 150	5000	70	<22.5	135	Ø280x190	2.66	1
High Bay TU Gen2 150W-4000K-2D-80°	93114920	150	19 500	4000	80	<25.2	130	Ø360x210	3.08	1
High Bay TU Gen2 150W-4000K-2D-60°	93114921	150	19 500	4000	60	<21.2	130	Ø360x210	3.08	1
High Bay TU Gen2 150W-5000K-2D-80°	93114928	150	19 500	5000	80	<25.2	130	Ø360x210	3.08	1
High Bay TU Gen2 150W-5000K-2D-60°	93114929	150	19 500	5000	60	<21.1	130	Ø360x210	3.08	1
High Bay TU Gen2 230W-4000K-2D-80°	93114936	230	28 750	4000	80	<25.8	125	Ø360x210	5.50	1
High Bay TU Gen2 230W-4000K-2D-60°	93114937	230	28 750	4000	60	<22.6	125	Ø360x210	5.50	1
High Bay TU Gen2 230W-5000K-2D-80°	93114944	230	28 750	5000	80	<25.8	125	Ø360x210	5.50	1
High Bay TU Gen2 230W-5000K-2D-60°	93114945	230	28 750	5000	60	<22.6	125	Ø360x210	5.50	1
Round High Bay IP65 Gen2 Honey Comb Accessories										
High Bay TU Gen2 Bracket for 280	93115197	-	-	-	-	-	-	-	-	1
High Bay TU Gen2 Bracket for 360	93115198	-	-	-	-	-	-	-	-	1
High Bay TU Gen2 Remote Control	93115198	-	-	-	-	-	-	-	-	1

* With Motion sensor

High Bay IP20

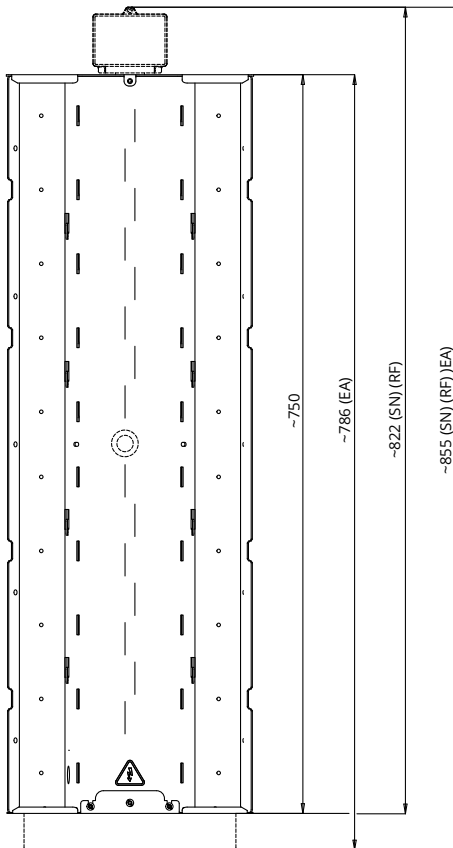
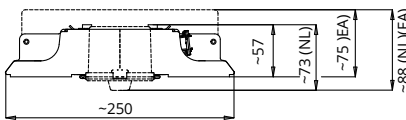
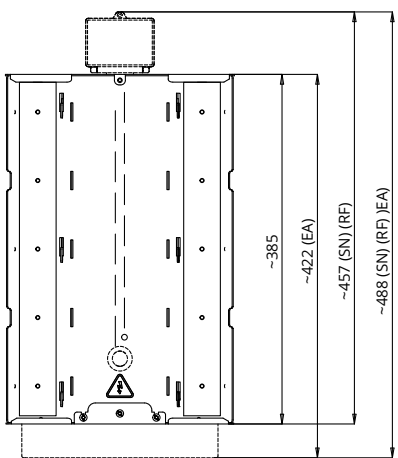


The new Tungsram High Bay LED luminaire is an exceptional mixture of value and performance. The product range has been upgraded to reach very high efficacy- up to 177 lm/w and cover lumen packages between 10,000 - 60,000 lumens. The range includes DALI and various sensor versions, such as the Nedap Luxon IoT Node, to enable internet connection and wireless control of the luminaire range. With the improved efficacy, wide range of control options, and higher lumen output, the HB IP20 is an ideal choice to replace high-watt HID and T5/T8 LFL fixtures in high bay and low bay applications, in industrial and commercial buildings.



Benefits

- Combination of steel and aluminium housing
- HB IP20 Series' design accommodates 1 or 2 modules with 2 LED units per module
- Various mounting options: Cable or threaded rod kit.
- System power factor is >90% and THD <20%
- IP50 protection level for the optical compartment for all lenses - 30, 60 and 90 degree optics are dust protected.
- IK10 protection level for Fix output and DALI versions. IK 08 for sensor types, IK03 for Emergency version.
- TU HB Series optical system enables LEDs to provide optimized illumination for open floor and racked aisles with photometric distributions of 30, 60, 80, 90, 100 and 120 degrees.

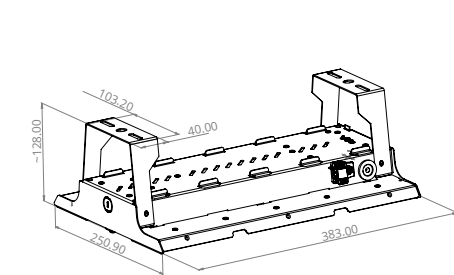


High Bay IP20

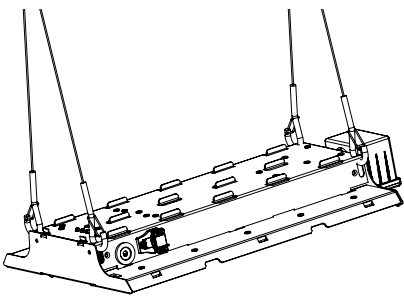


Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Control	Options1
TU High bay IP20 - High efficiency					
TU HB IP20 G1	1H10 - 1M High 10klm		C1-120° Clear		
	1H15 - 1M High 15klm	4K-4000K 70 CRI70	D1-100° Diffuse	DL-DALI	ST-Standard
	1H20 - 1M High 20klm	5K-5000K 70 CRI70	U1 - 80° Diffuse	RF-RF sensor (Motion and Lux)	EA-EM auto-test
	1H25 - 1M High 25klm	4K-4000K 80 CRI80	L9-90° Clear	NL-Nedap Luxon	
	2H30 - 2M High 30klm	5K-5000K 80 CRI80	L6-60° Clear		
	2H45 - 2M High 45klm		L3-30° Clear		
TU High bay IP20 - Standard Efficiency					
TU HB IP20 G1	1S10 - 1M Std 10klm		C1-120° Clear	FX-Fix output	
	1S12 - 1M Std 12 klm	4K-4000K 70 CRI70	D1-100° Diffuse	DL-DALI	ST-Standard
	1S20 - 1M Std 20klm	5K-5000K 70 CRI70	L9-90° Clear	SN-Sensor (On/OFF)	EA-EM auto-test
	1S22 - 1M Std 22 klm	4K-4000K 80 CRI80	L6-60° Clear		
	1S30 - 1M Std 30klm	5K-5000K 80 CRI80	L3-30° Clear	RF-RF sensor (Motion and Lux)	
	2S60 - 2M Std 60klm ***				

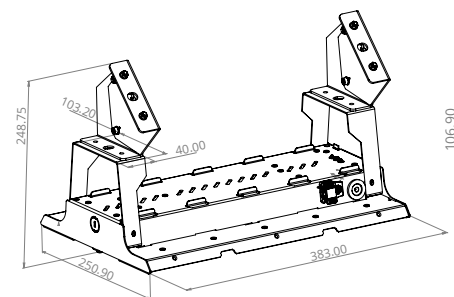
MOUNTING



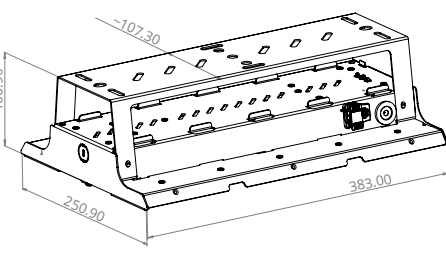
Rod Mount (optional)



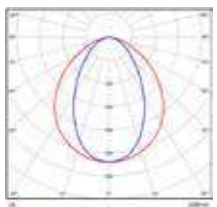
Y-Cable w/hook (optional)



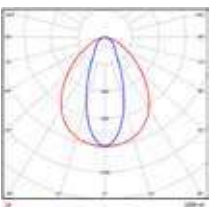
Tilted bracket kit



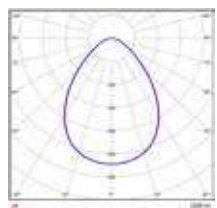
Busbar bracket kit (optional)



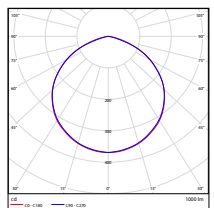
L6



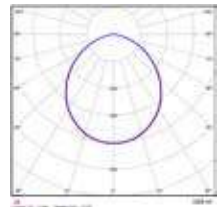
L3



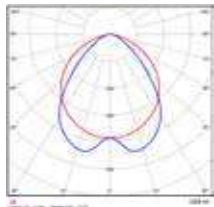
U1



C1



D1



L9

LED INDOOR SOLUTION

High Bay

High Bay IP20

4000 K								5000 K				L80B50		Regulatory Mark
				70 CRI		80 CRI		70 CRI		80 CRI		25°C *		
				LM	LM/W	LM	LM/W	LM	LM/W	LM	LM/W	Lumen maintenance		
W														
Constant Output (FX) & Dimmable Output (DL)														
FX	DL	1S10	67	9280	139	9180	137	9670	144	9280	139	238000	CE/ENEC	
FX	DL	1S12	92	12900	140	12800	139	13500	147	12900	140	149000	CE	
FX	DL	1S20	141	19100	135	18900	134	19900	141	19100	135	149000	CE/ENEC	
FX	DL	1S22	162	22500	139	22300	138	23500	145	22500	139	93000	CE	
FX	DL	1S30	199	27100	136	26800	135	28300	142	27100	136	93000	CE/ENEC	
FX	-	2S60	435	57600	132	57000	131	60000	138	57600	132	72000	CE	
-	DL	1H10	56	9500	170	9400	168	9900	177	9500	170	116000	CE/ENEC	
-	DL	1H15	86	14400	167	14200	165	15000	174	14400	167	116000	CE	
-	DL	1H20	116	18700	161	18500	159	19500	168	18700	161	116000	CE/ENEC	
-	DL	1H25	155	24000	155	23700	153	25000	162	24000	155	88000	CE	
-	DL	2H30	170	28000	165	27700	163	29200	172	28000	165	116000	CE/ENEC	
-	DL	2H45	272	43300	159	42900	158	45200	166	43300	159	94000	CE	
Motion Sensor (SN) & Radio Frequency Sensor (RF)														
SN	RF	1S10	69	9280	135	9180	134	9670	141	9280	135	238000	CE/ENEC	
SN	RF	1S12	94	12900	138	12800	137	13500	144	12900	138	149000	CE	
SN	RF	1S20	143	19100	134	18900	132	19900	139	19100	134	149000	CE/ENEC	
SN	RF	1S22	164	22500	137	22300	136	23500	144	22500	137	93000	CE	
SN	RF	1S30	201	27100	135	26800	134	28300	141	27100	135	93000	CE/ENEC	
SN	-	2S60	437	57600	132	57000	131	60000	137	57600	132	72000	CE	
-	RF	1H10	58	9500	165	9400	163	9900	172	9500	165	116000	CE/ENEC	
-	RF	1H15	88	14400	164	14200	162	15000	171	14400	164	116000	CE	
-	RF	1H20	118	18700	159	18500	157	19500	166	18700	159	105000	CE/ENEC	
-	RF	1H25	156	24000	154	23700	152	25000	160	24000	154	88000	CE	
-	RF	2H30	172	28000	163	27700	161	29200	170	28000	163	116000	CE/ENEC	
-	RF	2H45	274	43300	158	42900	157	45200	165	43300	158	94000	CE	
Nedap IoT (NL)														
NL	-	1H10	57	9500	167	9400	165	9900	174	9500	167	116000	CE/ENEC	
NL	-	1H15	87	14400	166	14200	163	15000	172	14400	166	116000	CE	
NL	-	1H20	117	18700	160	18500	158	19500	167	18700	160	106000	CE/ENEC	
NL	-	1H25	156	24000	154	23700	152	25000	161	24000	154	90000	CE	
NL	-	2H30	171	28000	164	27700	162	29200	171	28000	164	116000	CE/ENEC	
NL	-	2H45	273	43300	159	42900	157	45200	166	43300	159	93000	CE	
Emergency (EA)														
FX	-	1S20	145	19100	132	18900	130	19900	137	19100	132	150000	CE	
-	DL	1H20	120	18700	156	18500	154	19500	163	18700	156	106000	CE	
-	RF	1H20	159	24000	151	23700	149	25000	158	24000	151	88000	CE	
-	DL	1H25	122	18700	154	18500	152	19500	160	18700	154	105000	CE	
-	RF	1H25	160	24000	150	23700	148	25000	156	24000	150	88000	CE	
NL	-	1H25	160	24000	150	23700	148	25000	157	24000	150	90000	CE	

Optical multipliers**	
C1	100%
D1	90%
U1	94%
L9	100%
L6	97%
L3	98%

Our products are in compliance with IEC 60598-2-1:1979+A1:1987 used in conjunction with IEC 60598-1:2014.
* 1H25, 2H30, 1S22 and 1S30 has two drivers and DALI versions have two DALI addresses.
** Fixed output and sensor versions could have slightly different values.
*** 2S60 is available at FX and SN version.



High Bay IP66

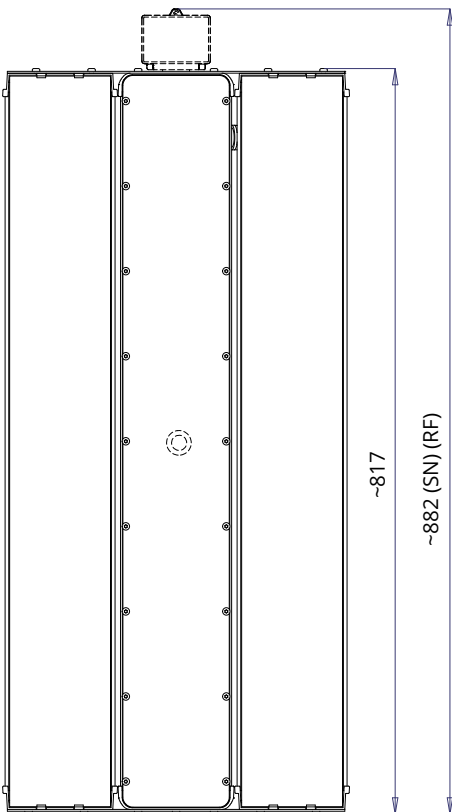
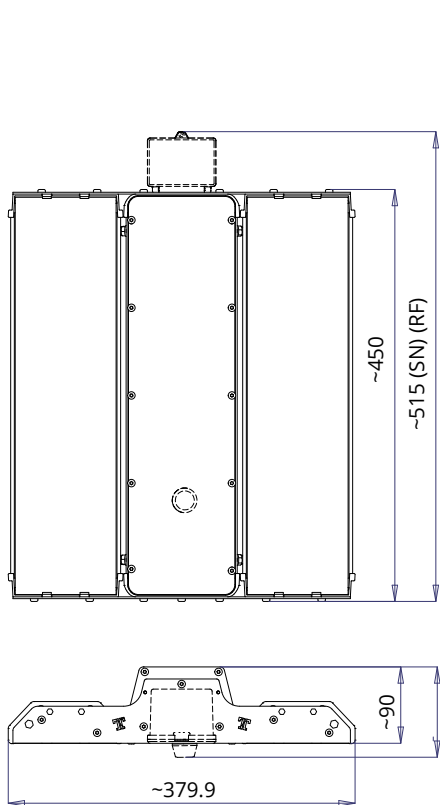


This IP66 rated LED fixture range offers an exceptional mixture of value and performance for high bay applications requiring water and dust resistance. This range has been upgraded to reach a very high efficacy- up to 182 lm/W with high lumen packages from 10,000lm to 45,000 lumens. The range includes a wide variety of alternatives for color temperature, color rendering, beam angle and control systems, for to best optimized customer solutions. DALI, IoT and various sensor versions offer modern solutions for any lighting project. Designed to replace high-watt HID and T5/T8 LFL light sources.



Benefits

- Direct replacement for compact fluorescent lamp downlights
- Up to 70% energy savings compared to HID lamps
- Affordable solution for retrofit or new installations
- Easy installation
- UV-free & IR-free
- Product height with driver (90mm) fits more ceiling types

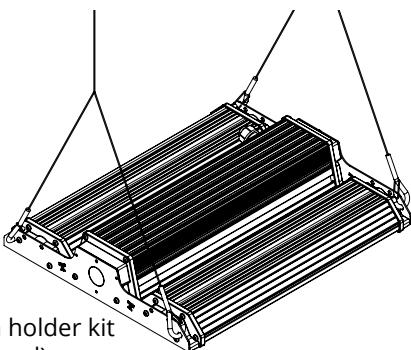


High Bay IP66

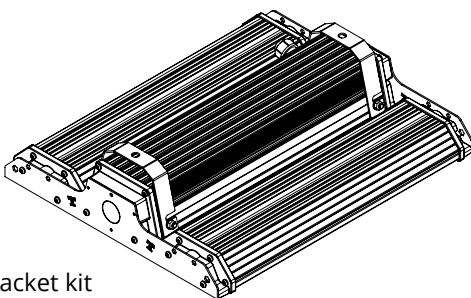


Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Sensor - Control	Options 1	Options 2
TU High B ay IP66 - Standard						
TU HB IP66 G1	1S10 - 1M Std 10klm	4K - 4000K 70 CRI70	C1-120° Clear	FX- Fix output DL- DALI	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1S20 - 1M Std 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	1S30 - 1M Std 30klm	4K - 4000K 80 CRI80	L6-60° Clear			
		5K - 5000K 80 CRI80	L3-30° Clear			
TU High Bay IP65 - Standard						
TUHB IP65 G1	1S10 - 1M Std 10klm	4K - 4000K 70 CRI70	C1-120° Clear	SN- Sensor(ON/OFF) RF Sensor(Motion&Lux)	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1S20 - 1M Std 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	1S30 - 1M Std 30klm	4K - 4000K 80 CRI80	L6-60° Clear			
		5K - 5000K 80 CRI80	L3-30° Clear			
TU High Bay IP66 - High Efficiency						
TUHB IP66 G1	1H10 - 1M High 10klm	4K - 4000K 70 CRI70	C1-120° Clear	DL- DALI	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1H20 - 1M High 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	2H30 - 2M High 30klm	4K - 4000K 80 CRI80	L6-60° Clear			
	2H45 - 2M High 30klm	5K - 5000K 80 CRI80	L3-30° Clear		NL-Nedap Luxon	
TU High Bay IP65 - High Efficiency						
TUHB IP65 G1	1H10 - 1M High 10klm	4K - 4000K 70 CRI70	C1-120° Clear	RF Sensor(Mo- tion&Lux)	ST-Standard EA-EM auto-test *	PC- Pre-cabled QC- Quick Connect
	1H20 - 1M High 20klm	5K - 5000K 70 CRI70	L9-90° Clear			
	2H30 - 2M High 45klm	4K - 4000K 80 CRI80	L6-60° Clear			
	2H45 - 2M High 45klm	5K - 5000K 80 CRI80	L3-30° Clear			

MOUNTING



Suspension holder kit (optional)



Bracket kit (optional)

LED INDOOR SOLUTION

High Bay

High Bay IP66

		4000 K						5000 K				L80B50		
		70 CRI			80 CRI			70 CRI		80 CRI		25°C *		Regulatory Mark
W		LM	LM/W	LM	LM/W	LM	LM/W	LM	LM/W	Lumen maintenance				
Constant Output (FX) & Dimmable Output (DL) - IP66														
FX	DL	1S10	67	9590	143	9490	142	9997	149	9590	143	259000	CE, ENEC	
FX	DL	1S20	141	19770	140	19570	139	20600	146	19770	140	197000	CE, ENEC	
FX	DL	1S30	199	28030	141	27740	139	29200	147	28030	141	117000	CE, ENEC	
-	DL	1H10	56	9790	175	9690	173	10200	182	9790	175	115000	CE, ENEC	
-	DL	1H20	116	19390	167	19190	165	20200	174	19390	167	100000	CE, ENEC	
-	DL	2H30	170	28990	171	28690	169	30200	178	28990	171	105000	CE, ENEC	
-	DL	2H45	261	42330	162	41890	160	44100	169	42330	162	116000	CE, ENEC	
Motion Sensor (SN) & Radio Frequency Sensor (RF) - IP65														
SN	RF	1S10	69	9590	140	9490	138	9997	146	9590	140	259000	CE, ENEC	
SN	RF	1S20	143	19770	139	19570	137	20600	144	19770	139	197000	CE, ENEC	
SN	RF	1S30	201	28030	140	27740	138	29200	145	28030	140	117000	CE, ENEC	
-	RF	1H10	58	9790	170	9690	168	10200	177	9790	170	115000	CE, ENEC	
-	RF	1H20	118	19390	165	19190	163	20200	172	19390	165	100000	CE, ENEC	
-	RF	2H30	172	28990	169	28690	167	30200	176	28990	169	105000	CE, ENEC	
-	RF	2H45	263	42330	161	41890	159	44100	168	42330	161	116000	CE, ENEC	
Nedap IoT (NL) - IP66														
NL		1H10	57	9790	172	9690	170	10200	179	9790	172	115000	CE, ENEC	
NL		1H20	117	19390	166	19190	164	20200	173	19390	166	100000	CE, ENEC	
NL		2H30	171	28990	170	28690	168	30200	177	28990	170	105000	CE, ENEC	
NL		2H45	261	42330	162	41890	160	44100	169	42330	162	116000	CE, ENEC	

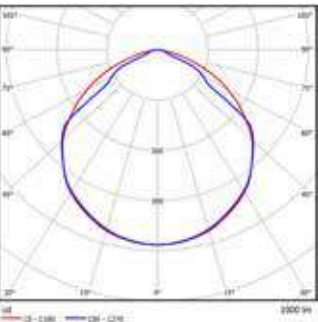
Optical multipliers**	
C1	100%
L9	92,5%
L6	90,0%
L3	90,0%

* IK03 protection level for Emergency version

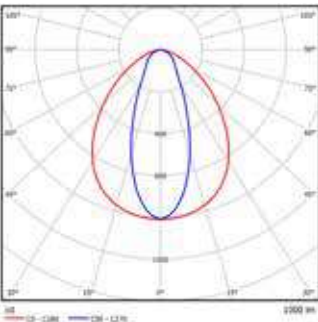
** Fixed output and sensor versions could have slightly different values.

Our products are in compliance with IEC 60598-2-1:1979 + A1 1987 used in conjunction with IEC 60598-1:2014. Emergency version is expected in Q1 2020

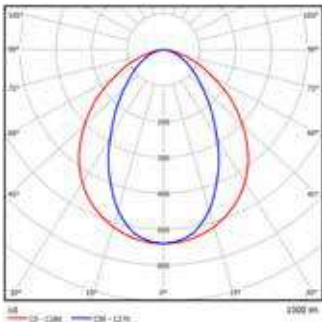
*** 1S30, 2H30 and 2H45 has 2 drivers, DALI versions have 2 DALI addresses



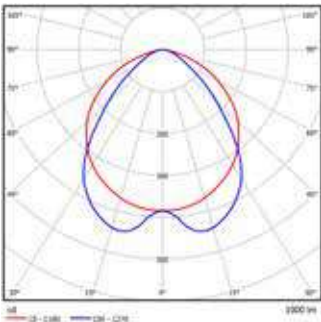
C1



L3



L6



L9



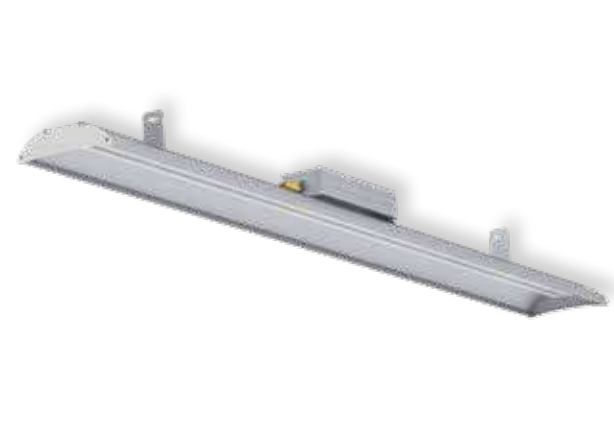
LED INDOOR SOLUTION

Linear High Bay



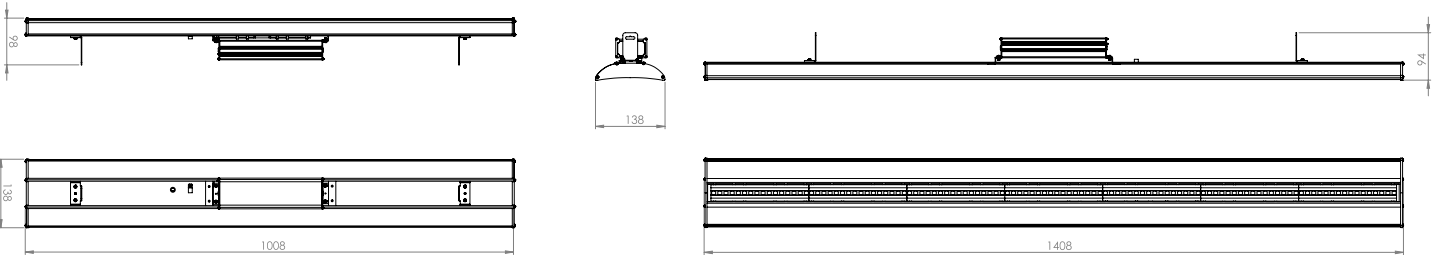
Linear High Bay Gen2

The Tungsram Linear High Bay is a simple LED solution that efficiently illuminates work areas by creating a brighter and better warehouse, retail, or manufacture environment. With its two-optical design and energy efficiency, this easy-to-install and low-maintenance lighting solution is suitable for a variety of applications.

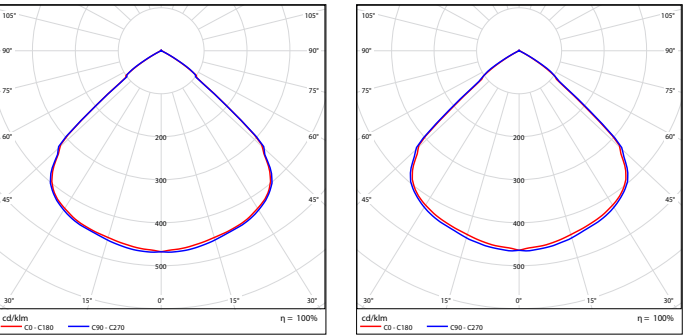


Benefits

- High energy savings up to 50% compared' to TL-5 Highbay
- Direct replacement of T5 Highbay
- Functional, linear design with flexible installation
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs



Model	Fixture (incl driver)	Driver	Weight incl driver (kg)
LED Linear Highbay G2 TU 4ft xxx	1008x138x98mm	210x65x40mm	1.9
LED Linear Highbay G2 TU 5ft xxx	1408x138x98mm	210x65x40mm	2.2

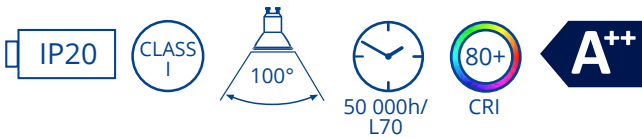


75W 4000K

110W 4000K



Linear High Bay Gen2



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Control
Linear High Bay Gen2						
LED Linear HighBay G2 TU 4ft 75W 840	93118940	75	10500	4000	140	No
LED Linear HighBay G2 TU 5ft 110W 840	93118941	110	15950	4000	145	No
Linear High Bay Gen2 Accessories						
LED Linear HighBay Duplicator Kit	93114138	-	-	-	-	-



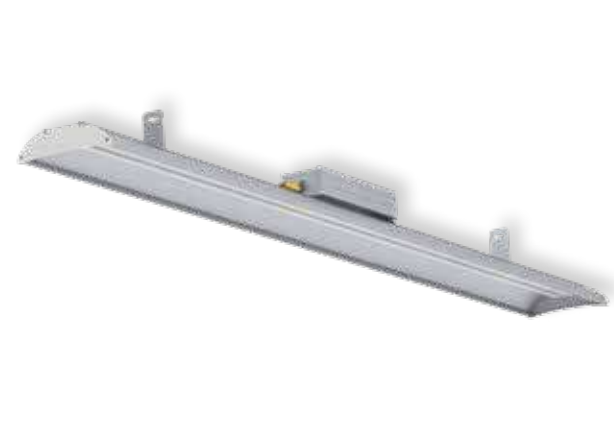
LED INDOOR SOLUTION

Linear High Bay



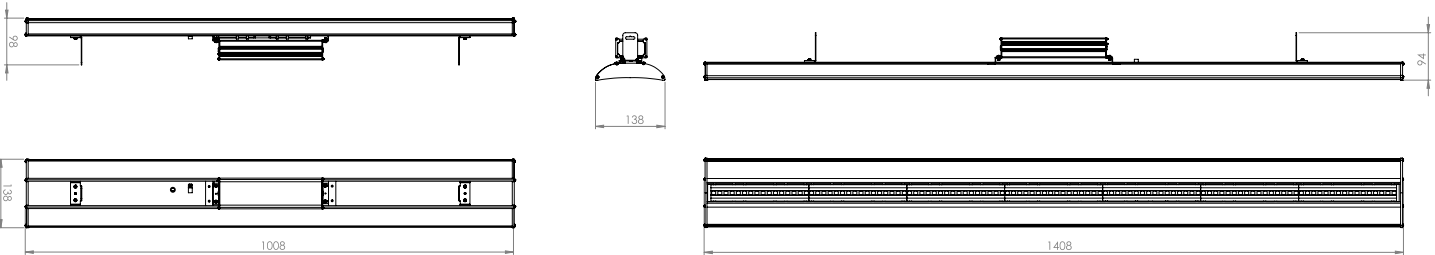
Linear High Bay Gen1

The Tungsram Linear High Bay is a simple LED solution that efficiently illuminates work areas by creating a brighter and better warehouse, retail, or manufacture environment. With its two-optical design and energy efficiency, this easy-to-install and low-maintenance lighting solution is suitable for a variety of applications.

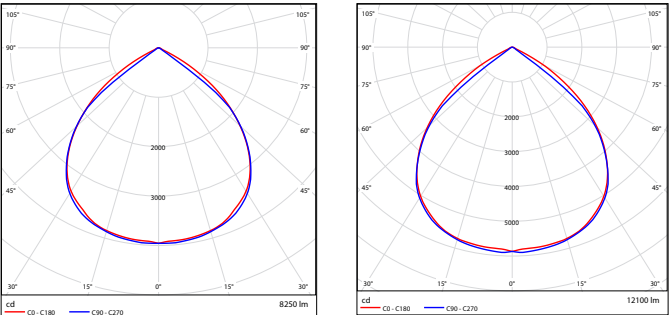


Benefits

- High energy savings up to 50% compared' to TL-5 Highbay
- Direct replacement of T5 Highbay
- Functional, linear design with flexible installation
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs



Model	Fixture (incl driver)	Driver	Weight incl driver (kg)
LED Linear Highbay G1 TU 4ft xxx	1008x138x98mm	210x65x40mm	2.0
LED Linear Highbay G1 TU 5ft xxx	1408x138x98mm	210x65x40mm	2.2

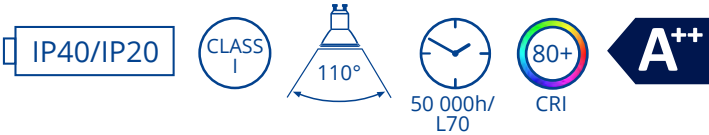


75W 4000K 110W 4000K



Linear High Bay Gen1

Marked for phased-out



Product Description	Product Code	Wattage (W)	Lumen (lm)	CCT (K)	System Efficiency (lm/W)	Dimensions (mm)	Weight (kg)	Pack Qty
Linear High Bay Gen1 - Static driver								
LED Linear HighBay G1 TU 4ft 75W 840	93110385	75	8 250	4000	110	1008x138x98	2.00	1
LED Linear HighBay G1 TU 5ft 110W 840	93110756	110	12 100	4000	110	1408x138x98	2.20	1
Linear High Bay Gen1 Accessories								
LED Linear Highbay G1 TU 50°Lens 5 pcs	93113202	-	-	-	-	-	-	5pcs
LED Linear Highbay G1 TU 50°Lens 7 pcs	93113203	-	-	-	-	-	-	7pcs
LED Linear HighBay Duplicate Kit	93114138	-	-	-	-	-	-	1pair



LED INDOOR & OUTDOOR SOLUTION

Exproof Easylight



Kermann LED - Exproof Easylight Z1

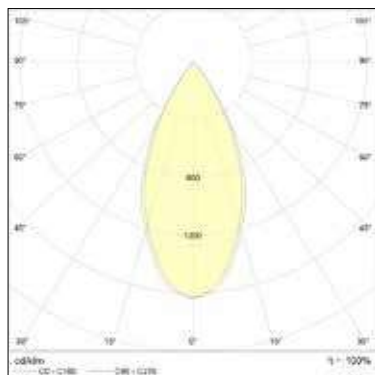
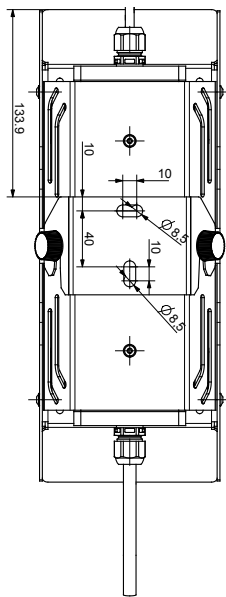
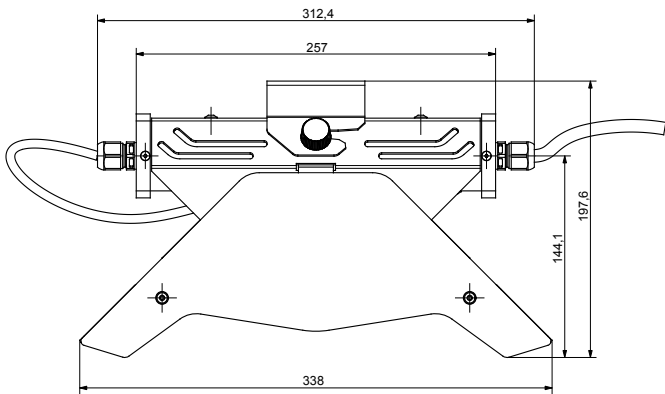
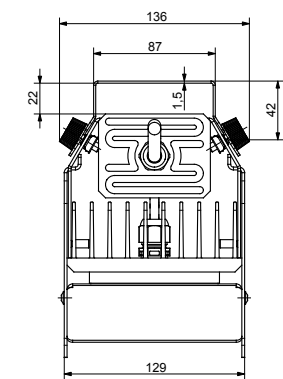
II 2 G Ex eb mb IIC T5 Gb

The new Kermann Exproof Easylight Z1 exproof LED luminaire is an ideal choice to replace 2x18W, 2x36W and 2x58W fluorescent light fixtures in Zone 1 hazardous industrial areas. Our luminaire is an exceptional mixture of the highest technical quality and an excellent efficacy. With the lumen packages between 2800 – 6500 lm, and the luminaire efficacy up to 136 lm/W all personal needs can be easily met.

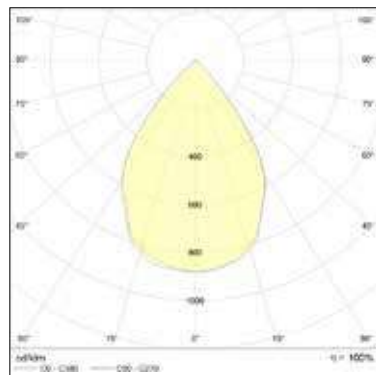


Benefits

- Zone 1 hazardous industrial areas, for the general lighting, from small and medium mounting heights
- Aluminium heatsink and steel housing
- Borosilicate glass lens
- 1 COB LED light source
- IP67 rating for the whole luminaire
- Powder painted housing
- Standard colors: RAL9005/RAL3028
- Dimmable



60°



90°

Kermann LED
Exproof Easylight Z1



Product ID	Lumen (lm)	CCT / CRI	Optic	Control	Options1	Options1
Kermann LED - Exproof Easylight Z1						
KEZ1 IP67 G1	3000	3K - 3000K CRI80	L9 - 90° Clear L6 - 60° Clear	FX - Fix output	ST - Standard	PC-PreCabled
	4000	3K - 3000K CRI90				
	5200	4K - 4000K CRI80				
	6600	4K - 4000K CRI90				
		5K - 5000K CRI80				
		5K - 5000K CRI90				

4000 K 80 CRI

Nominal lumen (lm)	Rated lumen (lm)	Power (W)	Lumen / watt
3000	2925	22	133
4000	4014	32	125
5200	5243	43	122
6600	6554	55	119

CCT/CRI multipliers

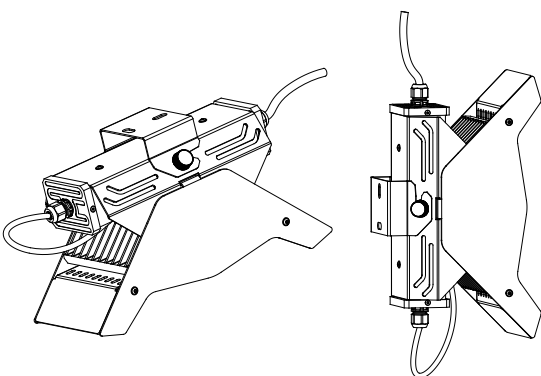
3K80	96%
3K90	82%
4K80	100%
4K90	86%
5K80	103%
5K90	88%

Optical multipliers

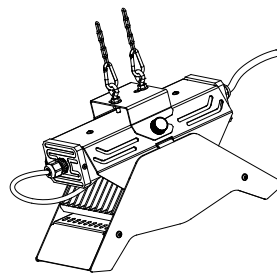
L6	100%
L9	102,7%

Mounting and accessories

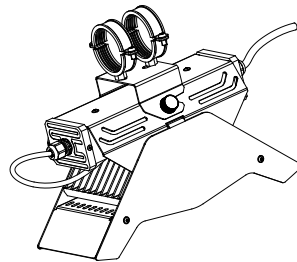
Universal mounting plate (standard desing): suitable for fix ceiling and wall mounting (screws are not included).
Mounting hights in between: 3-8m.



Universal mounting plate



Suspended with chain or wire



Mounting on light column, with pipe clamp

LED INDOOR & OUTDOOR SOLUTION

Exproof Easylight



Kermann LED - Exproof Easylight Z2

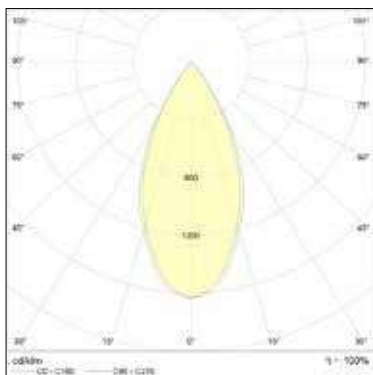
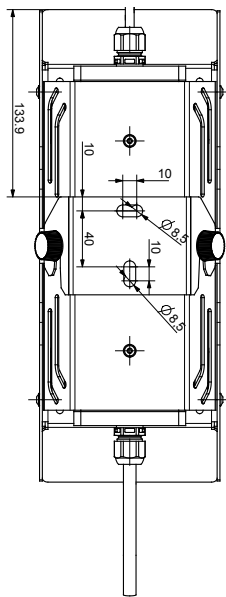
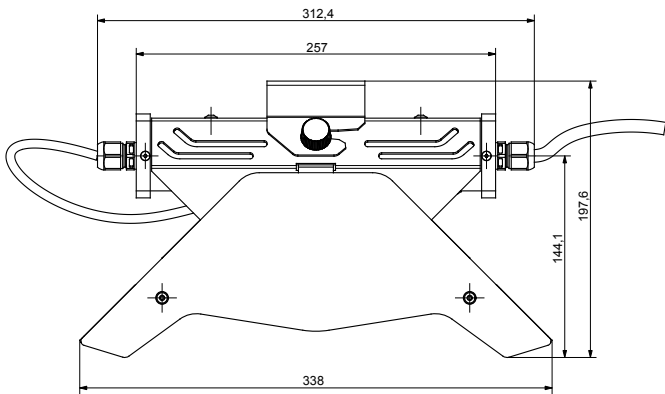
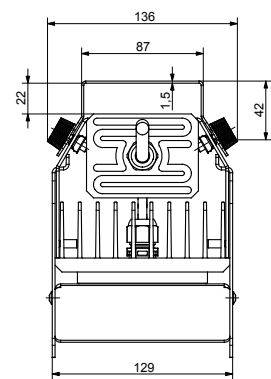
II 3G Ex ec mc IIC T5 Gc

The new Kermann Exproof Easylight Z2 exproof LED luminaire is an ideal choice to replace 2x18W, 2x36W and 2x58W fluorescent light fixtures in Zone 2 hazardous industrial areas. Our luminaire is an exceptional mixture of the highest technical quality and an excellent efficacy. With the lumen packages between 2800 – 6500 lm, and the luminaire efficacy up to 136 lm/W the personal needs can be easily fulfilled.

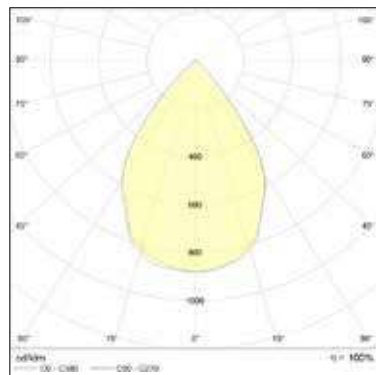


Benefits

- Zone 2 hazardous industrial areas, for the general lighting, from small and medium mounting heights
- Aluminium heatsink and steel housing
- Borosilicate glass lens
- 1 COB LED light source
- IP67 rating for the whole luminaire
- Powder painted housing
- Standard colors: RAL9005/RAL1023
- Dimmable



60°



90°

Kermann LED
Exproof Easylight Z2



Product ID	Lumen (lm)	CCT / CRI	Optic	Control	Options1	Options1
Kermann LED - Exproof Easylight Z2						
KEZ2 IP67 G1	3000	3K - 3000K CRI80	L9 - 90° Clear L6 - 60° Clear	FX - Fix output	ST - Standard	PC-PreCabled
	4000	3K - 3000K CRI90				
	5200	4K - 4000K CRI80				
	6600	4K - 4000K CRI90				
		5K - 5000K CRI80				
		5K - 5000K CRI90				

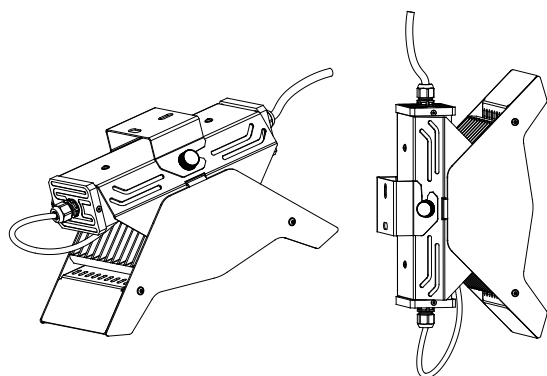
4000 K 80 CRI			
Nominal lumen (lm)	Rated lumen (lm)	Power (W)	Lumen / watt
3000	2925	22	133
4000	4014	32	125
5200	5243	43	122
6600	6554	55	119

CCT/CRI multipliers	
3K80	96%
3K90	82%
4K80	100%
4K90	86%
5K80	103%
5K90	88%

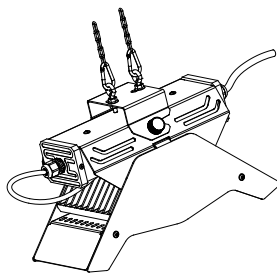
Optical multipliers	
L6	100%
L9	102,7%

Mounting and accessories

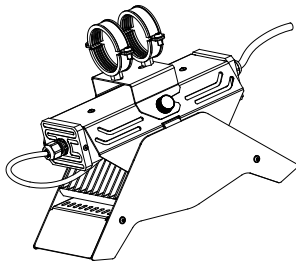
Universal mounting plate (standard desing): suitable for fix ceiling and wall mounting (screws are not included). Mounting hights in between: 3-8m.



Universal mounting plate



Suspended with chain or wire



Mounting on light column, with pipe clamp



LED AGRITECH

Modern horticulture has to deal with serious challenges such as climate change, scarce resources, and increasing needs of the fast-growing population. In order to meet these demands, the horticulture industry continuously seeks for new technologies in the case of key variables, such as lighting, to promote the growth of plants. The mission of Tungsram Agritech is to apply its expertise - acquired over decades - in the field of LED lighting to serve sustainable plant cultivation.



Greenhouse Linear Toplight Single Module

Our Linear Toplight Single Module is the most preferred option by horticultural producers, due to its physical parameters, modularity, high 1047 $\mu\text{mol/s}$ output, and long lifetime.

-  Slim design - minimal shadowing
-  High-system efficacy up to 3.67 $\mu\text{mol/J}$
-  Remote driver - better heat management



Greenhouse Linear Toplight Double Module

With its outstanding PPF reaching up to 2074 $\mu\text{mol/s}$, efficacy of 3.6 $\mu\text{mol/J}$, it is the ideal choice for the replacement of the traditional 1000 W High Pressure Sodium lamp. Similarity in their mounting and cabling options allow, smooth transition from the existing HPS lighting system into an LED-based solution.

-  1000W HPS replacement
-  >53% energy saving compared to HPS
-  Low maintenance cost





Greenhouse Toplight
Research Module

This module allows users to experiment with a different mix of wavelengths and light intensity in order to define and finetune the most optimal light for given phenophases, thus enabling all kinds of autotroph organisms to achieve their growers targeted quantity and quality of both primary and secondary metabolites.

- Variable spectrum and light intensity
- Wireless control



Greenhouse Interlight

Interlight is supplementary light source in greenhouses to light the lower, shadowed parts of the canopy. Growers can choose from PPF 141-357 $\mu\text{mol/s}$ modules, supplying the high-wired plants' entire surface with the proper amount of light to maximize yields and ultimately improve taste and nutritional value of their horticultural produces.

- Extremely high system efficacy- up to 3.42 $\mu\text{mol/J}$
- Low energy cost
- Ease of installation and maintenance





Vertical Farming
Lightbar - Production

The highly efficient modular system of the Tungsram LED VF lightbar can be flexibly adopted to the needs of any indoor multilayer growing facility. Our fixed spectrum lightbars can be customized in length, light output and color spectra, while the 4-channel version enables growers to apply a dynamic lighting strategy for the different phenophases, pre-harvest periods to achieve the desired goals.

- High-system efficacy up to 3.5 $\mu\text{mol}/\text{J}$
- Remote driver – low heat radiation



Vertical Farming
Lightbar - Research

The 6 and 8-channel version of our Vertical Farming Lightbar modules have been specifically designed to allow horticultural R&D facilities to experiment with the most versatile spectral variations to finetune light recipes for any given crop.

- Remotely operated innovative control system
- 0-100% dimmability on each channel



TUNGSRAMTM

We in Tungsram Operations Kft. are constantly developing and improving our products. For this reason, all product descriptions in this catalogue are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, Tungsram cannot accept any liability arising from the reliance on such data to the extent permitted by law.

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