

WELUX LED Downlight

Titan Anti-Glare Series

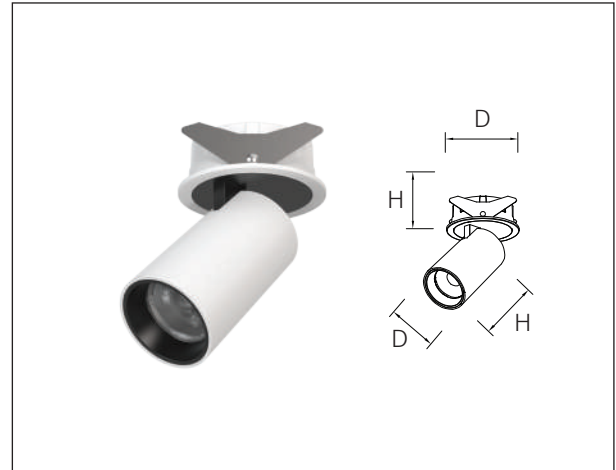
Housing and Trim: Die-cast aluminium
 Mounting type: Recess
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 750lm - 1,900lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature : -40°C to +40°C

Drivers: 150/200/250/300/350mA
 (optional: Dimmable available)
 Power factor at full load : > 0.97
 SELV , Low Ripple current < 1% , THD < 15%
 Energy efficiency : A+
 Warranty: 5 years

Standards
 EN 620301: LED modules for general lighting - Safety specification
 EN 62471: Photobiological safety of lamps and systems
 EN 55015: Radio disturbance emissions
 EN 61000-3-2 Limited for harmonic emissions
 EN 61547: Immunity requirements

Application: Retail, Museum, Galleries, Commercial Building, Lobby



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Model	Module Wattage	System Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Dimension (Dia x H) mm	Dimension (Cut out) mm
TG12R-2-5W	5.0W	5.6W	220-240	50/60Hz	0.95	Warm white	2700K	750	151	15, 24, 36, 55	>82	52 x 22	45
			220-240	50/60Hz	0.95	Warm white	3000K	790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	825	166	15, 24, 36, 55	>82		
TG12R-2-7W	6.7W	7.4W	220-240	50/60Hz	0.95	Warm white	2700K	1115	165	15, 24, 36, 55	>82	52 x 22	45
			220-240	50/60Hz	0.95	Warm white	3000K	1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1220	181	15, 24, 36, 55	>82		
TG12R-3-9W	8.6W	9.4W	220-240	50/60Hz	0.95	Warm white	2700K	1360	159	15, 24, 36, 55	>82	62 x 25	55
			220-240	50/60Hz	0.95	Warm white	3000K	1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1490	174	15, 24, 36, 55	>82		
TG12R-4-12W	10.4W	11.5W	220-240	50/60Hz	0.95	Warm white	2700K	1590	152	15, 24, 36, 55	>82	84 x 30	75
			220-240	50/60Hz	0.95	Warm white	3000K	1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1740	167	15, 24, 36, 55	>82		
TG12R-4-14W	12.3W	13.5W	220-240	50/60Hz	0.95	Warm white	2700K	1810	147	15, 24, 36, 55	>82	84 x 30	75
			220-240	50/60Hz	0.95	Warm white	3000K	1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1980	161	15, 24, 36, 55	>82		

*Colour tolerance: 3 MacAdam **Production tolerance of luminous flux and efficiency: $\pm 10\%$ ***Min. CRI $\pm 3\%$ ****Power consumption: $\pm 10\%$
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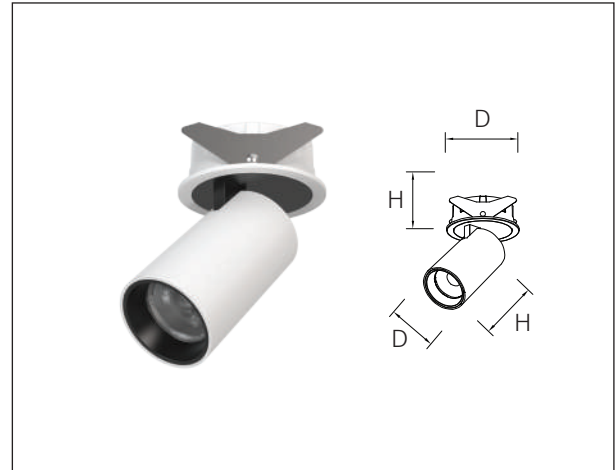
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 Heat Management: Die-cast aluminium heat sink
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LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 2,700lm - 3,900lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature : -40°C to +40°C

Drivers: 500/600/700mA
 (optional: Dimmable available)
 Power factor at full load : > 0.97
 SELV , Low Ripple current < 1% , THD < 15%
 Energy efficiency : A+
 Warranty: 5 years

Standards
 EN 620301: LED modules for general lighting - Safety specification
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Model	Module Wattage	System Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Dimension (Dia x H) mm	Dimension (Cut out) mm
TG12R-5-19W	16.8W	18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2730	162	15, 24, 36, 55	>82	105 x 35	95
			220-240	50/60Hz	0.95	Warm white	3000K	2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2990	178	15, 24, 36, 55	>82		
TG12R-5-24W	20.4W	22.5W	220-240	50/60Hz	0.95	Warm white	2700K	3185	156	15, 24, 36, 55	>82	105 x 35	95
			220-240	50/60Hz	0.95	Warm white	3000K	3355	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3455	169	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3485	170	15, 24, 36, 55	>82		
TG12R-5-27W	24.1W	26.5W	220-240	50/60Hz	0.95	Warm white	2700K	3615	150	15, 24, 36, 55	>82	105 x 35	95
			220-240	50/60Hz	0.95	Warm white	3000K	3805	158	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3915	162	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3955	164	15, 24, 36, 55	>82		

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TG12R-TL-2-5W	5.0W	5.6W	220-240	50/60Hz	0.95	Warm white	2700K	750	151	15, 24, 36, 55	>82	43 x 22	47
			220-240	50/60Hz	0.95	Warm white	3000K	790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	825	166	15, 24, 36, 55	>82		
TG12R-TL-2-7W	6.7W	7.4W	220-240	50/60Hz	0.95	Warm white	2700K	1115	165	15, 24, 36, 55	>82	43 x 22	47
			220-240	50/60Hz	0.95	Warm white	3000K	1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1220	181	15, 24, 36, 55	>82		
TG12R-TL-3-9W	8.6W	9.4W	220-240	50/60Hz	0.95	Warm white	2700K	1360	159	15, 24, 36, 55	>82	75 x 25	55
			220-240	50/60Hz	0.95	Warm white	3000K	1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1490	174	15, 24, 36, 55	>82		
TG12R-TL-4-12W	10.4W	11.5W	220-240	50/60Hz	0.95	Warm white	2700K	1590	152	15, 24, 36, 55	>82	95 x 30	75
			220-240	50/60Hz	0.95	Warm white	3000K	1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1740	167	15, 24, 36, 55	>82		
TG12R-TL-4-14W	12.3W	13.5W	220-240	50/60Hz	0.95	Warm white	2700K	1810	147	15, 24, 36, 55	>82	95 x 30	75
			220-240	50/60Hz	0.95	Warm white	3000K	1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	1980	161	15, 24, 36, 55	>82		

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Model	Module Wattage	System Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Dimension (Dia x H) mm	Dimension (Cut out) mm
TG12R-TL-S-19W	16.8W	18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2730	162	15, 24, 36, 55	>82	115 x 35	95
			220-240	50/60Hz	0.95	Warm white	3000K	2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2990	178	15, 24, 36, 55	>82		
TG12R-TL-S-24W	20.4W	22.5W	220-240	50/60Hz	0.95	Warm white	2700K	3185	156	15, 24, 36, 55	>82	115 x 35	95
			220-240	50/60Hz	0.95	Warm white	3000K	3355	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3455	169	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3485	170	15, 24, 36, 55	>82		
TG12R-TL-S-27W	24.1W	26.5W	220-240	50/60Hz	0.95	Warm white	2700K	3615	150	15, 24, 36, 55	>82	115 x 35	95
			220-240	50/60Hz	0.95	Warm white	3000K	3805	158	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3915	162	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3955	164	15, 24, 36, 55	>82		

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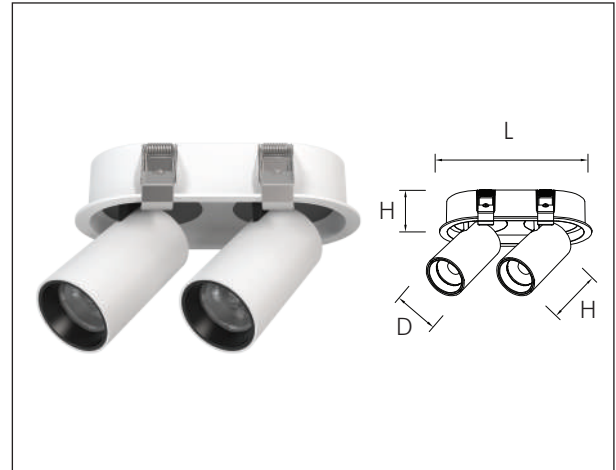
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TG12R-2-2x5W	2x5.0W	2x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	2x750	151	15, 24, 36, 55	>82	113 x 63 x 27	106 x 55
			220-240	50/60Hz	0.95	Warm white	3000K	2x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x825	166	15, 24, 36, 55	>82		
TG12R-2-2x7W	2x6.7W	2x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1115	165	15, 24, 36, 55	>82	113 x 63 x 27	106 x 55
			220-240	50/60Hz	0.95	Warm white	3000K	2x1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1220	181	15, 24, 36, 55	>82		
TG12R-3-2x9W	2x8.6W	2x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1360	159	15, 24, 36, 55	>82	140 x 79 x 30	128 x 67
			220-240	50/60Hz	0.95	Warm white	3000K	2x1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1490	174	15, 24, 36, 55	>82		
TG12R-4-2x12W	2x10.4W	2x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1590	152	15, 24, 36, 55	>82	195 x 105 x 41	179 x 91
			220-240	50/60Hz	0.95	Warm white	3000K	2x1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1740	167	15, 24, 36, 55	>82		
TG12R-4-2x14W	2x12.3W	2x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1810	147	15, 24, 36, 55	>82	195 x 105 x 41	179 x 91
			220-240	50/60Hz	0.95	Warm white	3000K	2x1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1980	161	15, 24, 36, 55	>82		

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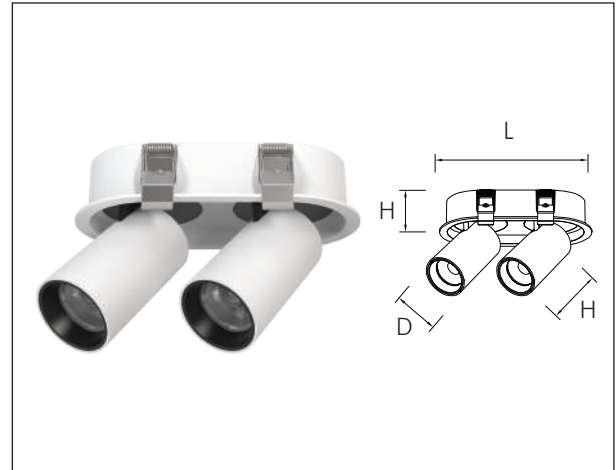
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TG12R-5-2x19W	2x16.8W	2x18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x2730	162	15, 24, 36, 55	>82	239 x 125 x 47	223 x 112
			220-240	50/60Hz	0.95	Warm white	3000K	2x2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x2990	178	15, 24, 36, 55	>82		
TG12R-5-2x24W	2x20.4W	2x22.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3185	156	15, 24, 36, 55	>82	239 x 125 x 47	223 x 112
			220-240	50/60Hz	0.95	Warm white	3000K	2x3355	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x3455	169	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x3485	170	15, 24, 36, 55	>82		
TG12R-5-2x27W	2x24.1W	2x26.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3615	150	15, 24, 36, 55	>82	239 x 125 x 47	223 x 112
			220-240	50/60Hz	0.95	Warm white	3000K	2x3805	158	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x3915	162	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x3955	164	15, 24, 36, 55	>82		

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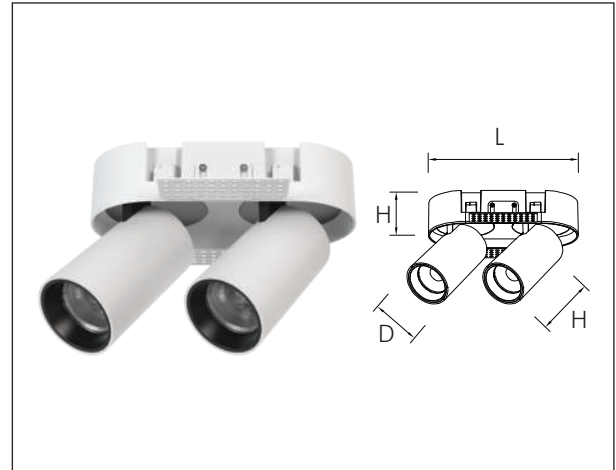
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TG12R-TL-2-2x5W	2x5.0W	2x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	2x750	151	15, 24, 36, 55	>82	103 x 53 x 27	105 x 57
			220-240	50/60Hz	0.95	Warm white	3000K	2x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x825	166	15, 24, 36, 55	>82		
TG12R-TL-2-2x7W	2x6.7W	2x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1115	165	15, 24, 36, 55	>82	103 x 53 x 27	105 x 57
			220-240	50/60Hz	0.95	Warm white	3000K	2x1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1220	181	15, 24, 36, 55	>82		
TG12R-TL-3-2x9W	2x8.6W	2x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1360	159	15, 24, 36, 55	>82	126 x 65 x 30	128 x 68
			220-240	50/60Hz	0.95	Warm white	3000K	2x1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1490	174	15, 24, 36, 55	>82		
TG12R-TL-4-2x12W	2x10.4W	2x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1590	152	15, 24, 36, 55	>82	177 x 88 x 41	179 x 91
			220-240	50/60Hz	0.95	Warm white	3000K	2x1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1740	167	15, 24, 36, 55	>82		
TG12R-TL-4-2x14W	2x12.3W	2x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1810	147	15, 24, 36, 55	>82	177 x 88 x 41	179 x 91
			220-240	50/60Hz	0.95	Warm white	3000K	2x1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x1980	161	15, 24, 36, 55	>82		

*Colour tolerance: 3 MacAdam **Production tolerance of luminous flux and efficiency: ±10% ***Min. CRI ±3% ****Power consumption: ±10%
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WELUX LED Downlight

Titan Anti-Glare Series

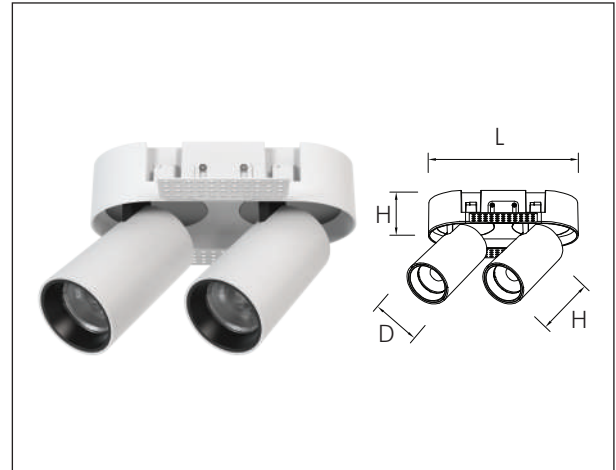
Housing and Trim: Die-cast aluminium
 Mounting type: Recess Trimless
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 2 x 2,700lm - 3,900lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature : -40°C to +40°C

Drivers: 500/600/700mA
 (optional: Dimmable available)
 Power factor at full load : > 0.97
 SELV , Low Ripple current < 1% , THD < 15%
 Energy efficiency : A+
 Warranty: 5 years

Standards
 EN 620301: LED modules for general lighting - Safety specification
 EN 62471: Photobiological safety of lamps and systems
 EN 55015: Radio disturbance emissions
 EN 61000-3-2 Limited for harmonic emissions
 EN 61547: Immunity requirements

Application: Retail, Museum, Galleries, Commercial Building, Lobby



Powered by:



Model	Module Wattage	System Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Dimension (W x L x H) mm	Dimension (Cut out) mm
TG12R-TL-5-2x19W	2x16.8W	2x18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x2730	162	15, 24, 36, 55	>82	222 x 108 x 51	224 x 111
			220-240	50/60Hz	0.95	Warm white	3000K	2x2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x2990	178	15, 24, 36, 55	>82		
TG12R-TL-5-2x24W	2x20.4W	2x22.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3185	156	15, 24, 36, 55	>82	222 x 108 x 51	224 x 111
			220-240	50/60Hz	0.95	Warm white	3000K	2x3355	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x3455	169	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x3485	170	15, 24, 36, 55	>82		
TG12R-TL-5-2x27W	2x24.1W	2x26.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3615	150	15, 24, 36, 55	>82	222 x 108 x 51	224 x 111
			220-240	50/60Hz	0.95	Warm white	3000K	2x3805	158	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x3915	162	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x3955	164	15, 24, 36, 55	>82		

*Colour tolerance: 3 MacAdam **Production tolerance of luminous flux and efficiency: ±10% ***Min. CRI ±3% ****Power consumption: ±10%
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