

WELUX LED Downlight

Titan Anti-Glare Series

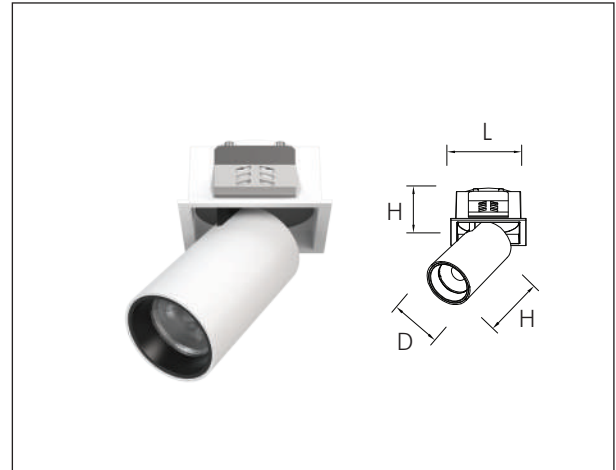
Housing and Trim: Die-cast aluminium
 Mounting type: Recess
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

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 (W x L x H) mm	Dimension (Cut out) mm
TG12S-2-5W	5.0W	5.6W	220-240	50/60Hz	0.95	Warm white	2700K	750	151	15, 24, 36, 55	>82	52 x 52 x 28	45 x 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		
TG12S-2-7W	6.7W	7.4W	220-240	50/60Hz	0.95	Warm white	2700K	1115	165	15, 24, 36, 55	>82	52 x 52 x 28	45 x 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		
TG12S-3-9W	8.6W	9.4W	220-240	50/60Hz	0.95	Warm white	2700K	1360	159	15, 24, 36, 55	>82	64 x 64 x 33	55 x 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		
TG12S-4-12W	10.4W	11.5W	220-240	50/60Hz	0.95	Warm white	2700K	1590	152	15, 24, 36, 55	>82	85 x 85 x 41	75 x 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		
TG12S-4-14W	12.3W	13.5W	220-240	50/60Hz	0.95	Warm white	2700K	1810	147	15, 24, 36, 55	>82	85 x 85 x 41	75 x 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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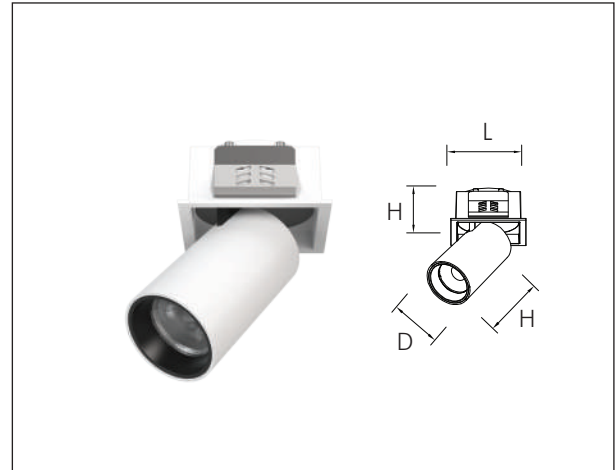
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 Heat Management: Die-cast aluminium heat sink
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 Diffuser: PMMA Lens
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LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 2,700lm - 3,900lm
 Long 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
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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 (W x L x H) mm	Dimension (Cut out) mm
TG12S-5-19W	16.8W	18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2730	162	15, 24, 36, 55	>82	105 x 105 x 51	95 x 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		
TG12S-5-24W	20.4W	22.5W	220-240	50/60Hz	0.95	Warm white	2700K	3185	156	15, 24, 36, 55	>82	105 x 105 x 51	95 x 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		
TG12S-5-27W	24.1W	26.5W	220-240	50/60Hz	0.95	Warm white	2700K	3615	150	15, 24, 36, 55	>82	105 x 105 x 51	95 x 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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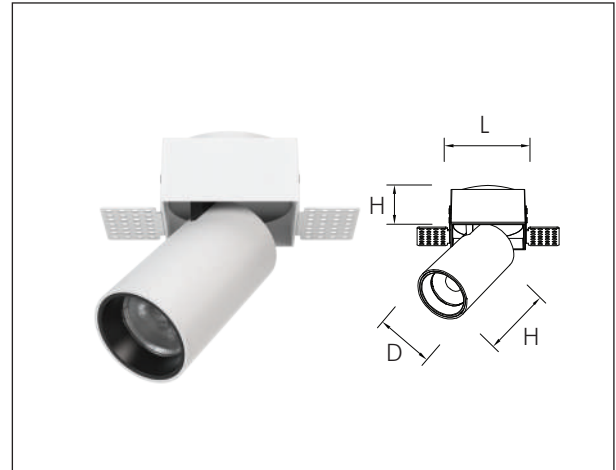
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TG12S-TL-2-5W	5.0W	5.6W	220-240	50/60Hz	0.95	Warm white	2700K	750	151	15, 24, 36, 55	>82	44 x 44 x 28	47 x 45
			220-240	50/60Hz	0.95	Warm white	3000K	790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	825	166	15, 24, 36, 55	>82		
TG12S-TL-2-7W	6.7W	7.4W	220-240	50/60Hz	0.95	Warm white	2700K	1115	165	15, 24, 36, 55	>82	44 x 44 x 28	47 x 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		
TG12S-TL-3-9W	8.6W	9.4W	220-240	50/60Hz	0.95	Warm white	2700K	1360	159	15, 24, 36, 55	>82	54 x 54 x 33	57 x 54
			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		
TG12S-TL-4-12W	10.4W	11.5W	220-240	50/60Hz	0.95	Warm white	2700K	1590	152	15, 24, 36, 55	>82	74 x 74 x 41	77 x 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		
TG12S-TL-4-14W	12.3W	13.5W	220-240	50/60Hz	0.95	Warm white	2700K	1810	147	15, 24, 36, 55	>82	74 x 74 x 41	77 x 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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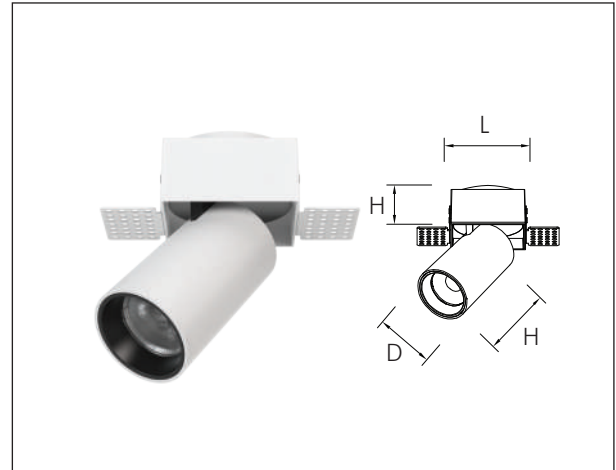
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TG12S-TL-5-19W	16.8W	18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2730	162	15, 24, 36, 55	>82	94 x 94 x 51	97 x 95
			220-240	50/60Hz	0.95	Warm white	3000K	2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2990	178	15, 24, 36, 55	>82		
TG12S-TL-5-24W	20.4W	22.5W	220-240	50/60Hz	0.95	Warm white	2700K	3185	156	15, 24, 36, 55	>82	94 x 94 x 51	97 x 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		
TG12S-TL-5-27W	24.1W	26.5W	220-240	50/60Hz	0.95	Warm white	2700K	3615	150	15, 24, 36, 55	>82	94 x 94 x 51	97 x 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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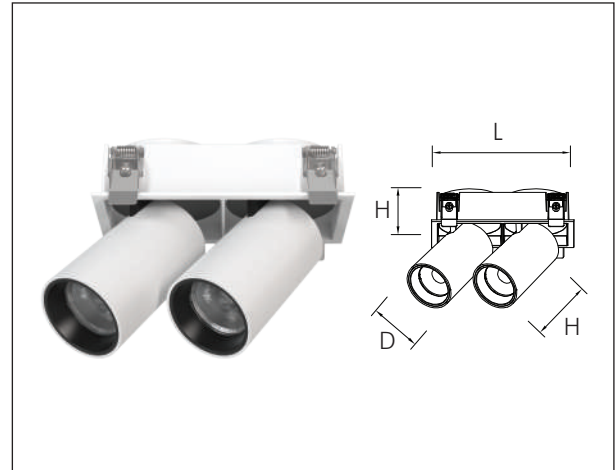
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TG12S-2-2x5W	2x5.0W	2x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	2x750	151	15, 24, 36, 55	>82	96 x 53 x 27	89 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	2x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x825	166	15, 24, 36, 55	>82		
TG12S-2-2x7W	2x6.7W	2x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1115	165	15, 24, 36, 55	>82	96 x 53 x 27	89 x 46
			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		
TG12S-3-2x9W	2x8.6W	2x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1360	159	15, 24, 36, 55	>82	118 x 65 x 33	110 x 57
			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		
TG12S-4-2x12W	2x10.4W	2x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1590	152	15, 24, 36, 55	>82	157 x 85 x 41	148 x 76
			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		
TG12S-4-2x14W	2x12.3W	2x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1810	147	15, 24, 36, 55	>82	157 x 85 x 41	148 x 76
			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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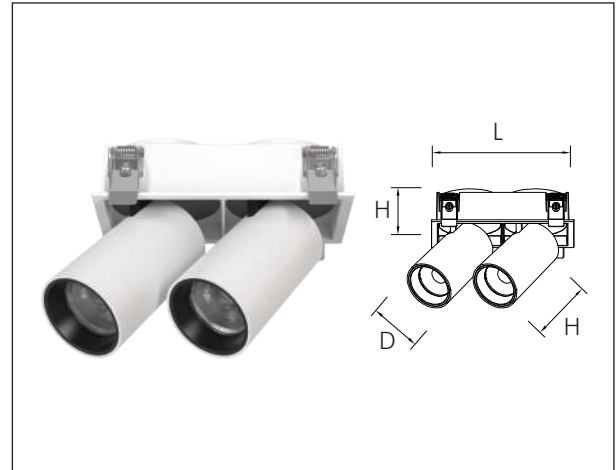
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			220-240	50/60Hz	0.95	Warm white	3000K	2x2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	2x2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	2x2990	178	15, 24, 36, 55	>82		
TG12S-5-2x24W	2x20.4W	2x22.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3185	156	15, 24, 36, 55	>82	197 x 105 x 51	188 x 96
			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		
TG12S-5-2x27W	2x24.1W	2x26.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3615	150	15, 24, 36, 55	>82	197 x 105 x 51	188 x 96
			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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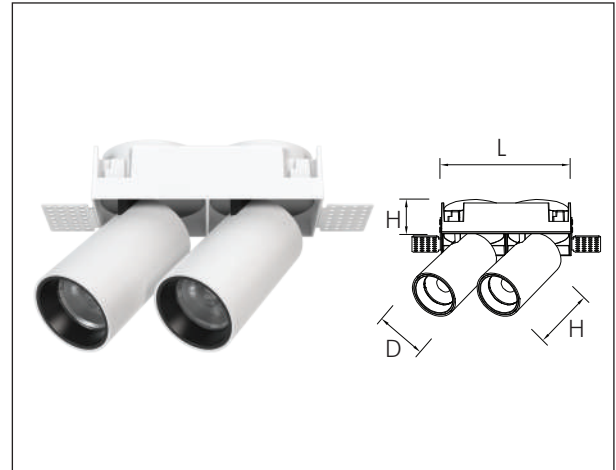
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Model	Module Wattage	System Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Dimension (W x L x H) mm	Dimension (Cut out) mm
TG12S-TL-2-2x5W	2x5.0W	2x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	2x750	151	15, 24, 36, 55	>82	87 x 44 x 27	89 x 47
			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		
TG12S-TL-2-2x7W	2x6.7W	2x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1115	165	15, 24, 36, 55	>82	87 x 44 x 27	89 x 47
			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		
TG12S-TL-3-2x9W	2x8.6W	2x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	2x1360	159	15, 24, 36, 55	>82	108 x 55 x 33	111 x 57
			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		
TG12S-TL-4-2x12W	2x10.4W	2x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1590	152	15, 24, 36, 55	>82	146 x 74 x 41	149 x 76
			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		
TG12S-TL-4-2x14W	2x12.3W	2x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x1810	147	15, 24, 36, 55	>82	146 x 74 x 41	149 x 76
			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

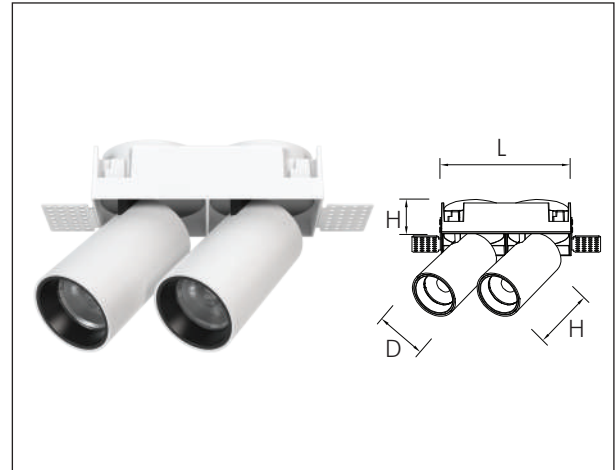
Housing and Trim: Die-cast aluminium
 Mounting type: Recess Trimless
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

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
TG12S-TL-5-2x19W	2x16.8W	2x18.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x2730	162	15, 24, 36, 55	>82	186 x 94 x 51	189 x 96
			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		
TG12S-TL-5-2x24W	2x20.4W	2x22.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3185	156	15, 24, 36, 55	>82	186 x 94 x 51	189 x 96
			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		
TG12S-TL-5-2x27W	2x24.1W	2x26.5W	220-240	50/60Hz	0.95	Warm white	2700K	2x3615	150	15, 24, 36, 55	>82	186 x 94 x 51	189 x 96
			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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WELUX LED Downlight

Titan Anti-Glare Series

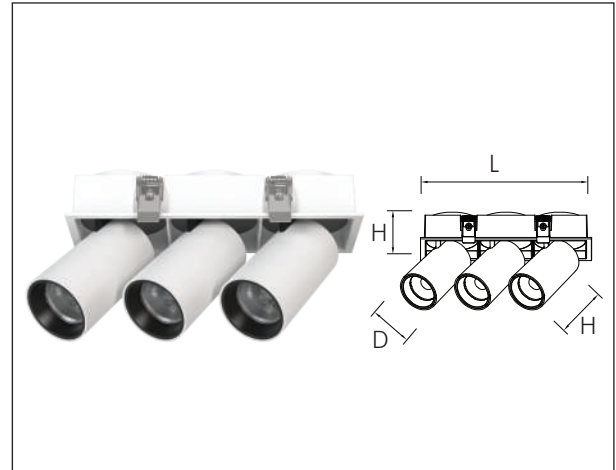
Housing and Trim: Die-cast aluminium
Mounting type: Recess
Heat Management: Die-cast aluminium heat sink
Snoot: White or black finish
Diffuser: PMMA Lens
Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
GERMAN Technology
Comfort COB Gen2 - 3 x 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
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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
TG12S-2-3x5W	3x5.0W	3x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	3x750	151	15, 24, 36, 55	>82	138 x 53 x 28	131 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	3x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x825	166	15, 24, 36, 55	>82		
TG12S-2-3x7W	3x6.7W	3x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	3x1115	165	15, 24, 36, 55	>82	138 x 53 x 28	131 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	3x1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1220	181	15, 24, 36, 55	>82		
TG12S-3-3x9W	3x8.6W	3x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	3x1360	159	15, 24, 36, 55	>82	170 x 65 x 33	162 x 57
			220-240	50/60Hz	0.95	Warm white	3000K	3x1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1490	174	15, 24, 36, 55	>82		
TG12S-4-3x12W	3x10.4W	3x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x1590	152	15, 24, 36, 55	>82	230 x 85 x 41	221 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	3x1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1740	167	15, 24, 36, 55	>82		
TG12S-4-3x14W	3x12.3W	3x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x1810	147	15, 24, 36, 55	>82	230 x 85 x 41	221 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	3x1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1980	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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WELUX LED Downlight

Titan Anti-Glare Series

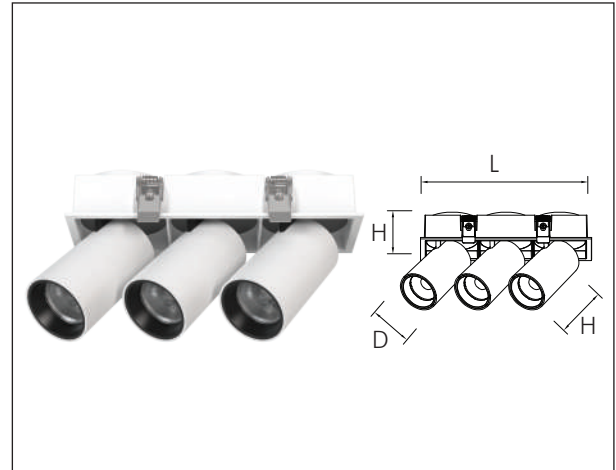
Housing and Trim: Die-cast aluminium
 Mounting type: Recess
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 3 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
TG12S-5-3x19W	3x16.8W	3x18.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x2730	162	15, 24, 36, 55	>82	290 x 105 x 51	281 x 96
			220-240	50/60Hz	0.95	Warm white	3000K	3x2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x2990	178	15, 24, 36, 55	>82		
TG12S-5-3x24W	3x20.4W	3x22.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x3185	156	15, 24, 36, 55	>82	290 x 105 x 51	281 x 96
			220-240	50/60Hz	0.95	Warm white	3000K	3x3355	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x3455	169	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x3485	170	15, 24, 36, 55	>82		
TG12S-5-3x27W	3x24.1W	3x26.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x3615	150	15, 24, 36, 55	>82	290 x 105 x 51	281 x 96
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WELUX LED Downlight

Titan Anti-Glare Series

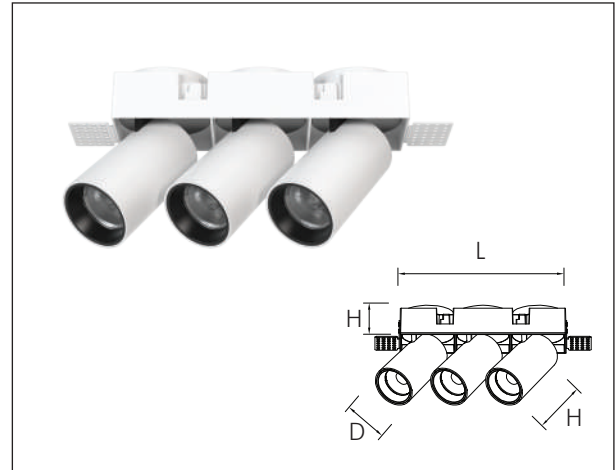
Housing and Trim: Die-cast aluminium
 Mounting type: Recess Trimless
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 3 x 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
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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
TG12S-TL-2-3x5W	3x5.0W	3x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	3x750	151	15, 24, 36, 55	>82	129 x 44 x 28	132 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	3x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x825	166	15, 24, 36, 55	>82		
TG12S-TL-2-3x7W	3x6.7W	3x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	3x1115	165	15, 24, 36, 55	>82	129 x 44 x 28	132 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	3x1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1220	181	15, 24, 36, 55	>82		
TG12S-TL-3-3x9W	3x8.6W	3x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	3x1360	159	15, 24, 36, 55	>82	160 x 55 x 33	163 x 57
			220-240	50/60Hz	0.95	Warm white	3000K	3x1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1490	174	15, 24, 36, 55	>82		
TG12S-TL-4-3x12W	3x10.4W	3x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x1590	152	15, 24, 36, 55	>82	219 x 74 x 41	222 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	3x1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1740	167	15, 24, 36, 55	>82		
TG12S-TL-4-3x14W	3x12.3W	3x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	3x1810	147	15, 24, 36, 55	>82	219 x 74 x 41	222 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	3x1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	3x1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	3x1980	161	15, 24, 36, 55	>82		

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WELUX LED Downlight

Titan Anti-Glare Series

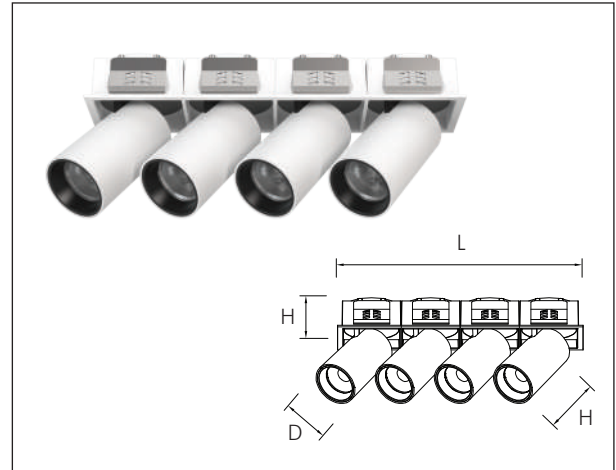
Housing and Trim: Die-cast aluminium
 Mounting type: Recess
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 4 x 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
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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
TG12S-2-4x5W	4x5.0W	4x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	4x750	151	15, 24, 36, 55	>82	185 x 53 x 28	178 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	4x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x815	164	15, 24, 36, 55	>82		
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			220-240	50/60Hz	0.95	Cool white	5700K	4x1220	181	15, 24, 36, 55	>82		
TG12S-3-4x9W	4x8.6W	4x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	4x1360	159	15, 24, 36, 55	>82	225 x 64 x 33	218 x 56
			220-240	50/60Hz	0.95	Warm white	3000K	4x1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1490	174	15, 24, 36, 55	>82		
TG12S-4-4x12W	4x10.4W	4x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x1590	152	15, 24, 36, 55	>82	305 x 85 x 41	296 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	4x1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1740	167	15, 24, 36, 55	>82		
TG12S-4-4x14W	4x12.3W	4x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x1810	147	15, 24, 36, 55	>82	305 x 85 x 41	296 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	4x1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1980	161	15, 24, 36, 55	>82		

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WELUX LED Downlight

Titan Anti-Glare Series

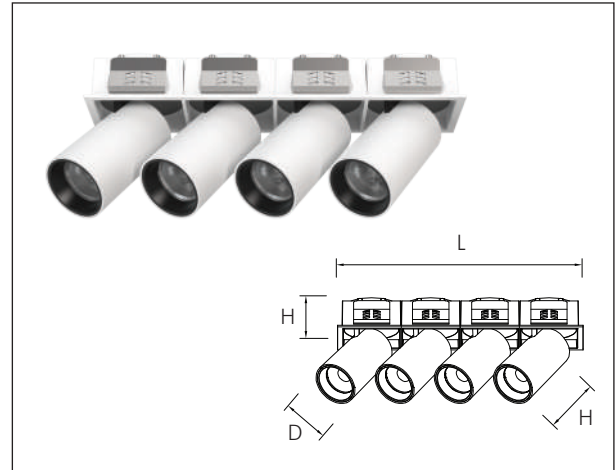
Housing and Trim: Die-cast aluminium
 Mounting type: Recess
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 4 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



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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 (W x L x H) mm	Dimension (Cut out) mm
TG12S-5-4x19W	4x16.8W	4x18.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x2730	162	15, 24, 36, 55	>82	385 x 105 x 51	377 x 96
			220-240	50/60Hz	0.95	Warm white	3000K	4x2875	171	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x2960	176	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x2990	178	15, 24, 36, 55	>82		
TG12S-5-4x24W	4x20.4W	4x22.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x3185	156	15, 24, 36, 55	>82	385 x 105 x 51	377 x 96
			220-240	50/60Hz	0.95	Warm white	3000K	4x3355	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x3455	169	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x3485	170	15, 24, 36, 55	>82		
TG12S-5-4x27W	4x24.1W	4x26.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x3615	150	15, 24, 36, 55	>82	385 x 105 x 51	377 x 96
			220-240	50/60Hz	0.95	Warm white	3000K	4x3805	158	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x3915	162	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x3955	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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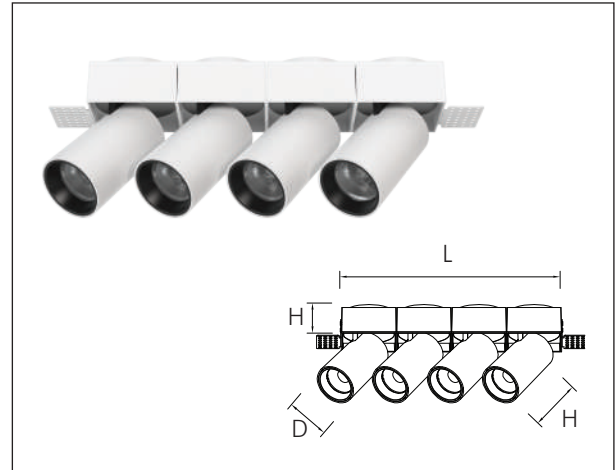
Housing and Trim: Die-cast aluminium
 Mounting type: Recess Trimless
 Heat Management: Die-cast aluminium heat sink
 Snoot: White or black finish
 Diffuser: PMMA Lens
 Features: Pull-out, Tiltable 20°, rotatable 355°, bottom maintainance

LED Modules
 GERMAN Technology
 Comfort COB Gen2 - 4 x 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
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TG12S-TL-2-4x5W	4x5.0W	4x5.6W	220-240	50/60Hz	0.95	Warm white	2700K	4x750	151	15, 24, 36, 55	>82	176 x 44 x 28	179 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	4x790	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x815	164	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x825	166	15, 24, 36, 55	>82		
TG12S-TL-2-4x7W	4x6.7W	4x7.4W	220-240	50/60Hz	0.95	Warm white	2700K	4x1115	165	15, 24, 36, 55	>82	176 x 44 x 28	179 x 46
			220-240	50/60Hz	0.95	Warm white	3000K	4x1175	174	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1210	179	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1220	181	15, 24, 36, 55	>82		
TG12S-TL-3-4x9W	4x8.6W	4x9.4W	220-240	50/60Hz	0.95	Warm white	2700K	4x1360	159	15, 24, 36, 55	>82	216 x 54 x 33	219 x 56
			220-240	50/60Hz	0.95	Warm white	3000K	4x1430	167	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1475	172	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1490	174	15, 24, 36, 55	>82		
TG12S-TL-4-4x12W	4x10.4W	4x11.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x1590	152	15, 24, 36, 55	>82	294 x 74 x 41	297 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	4x1675	161	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1725	165	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1740	167	15, 24, 36, 55	>82		
TG12S-TL-4-4x14W	4x12.3W	4x13.5W	220-240	50/60Hz	0.95	Warm white	2700K	4x1810	147	15, 24, 36, 55	>82	294 x 74 x 41	297 x 76
			220-240	50/60Hz	0.95	Warm white	3000K	4x1905	154	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Neutral white	4000K	4x1960	159	15, 24, 36, 55	>82		
			220-240	50/60Hz	0.95	Cool white	5700K	4x1980	161	15, 24, 36, 55	>82		

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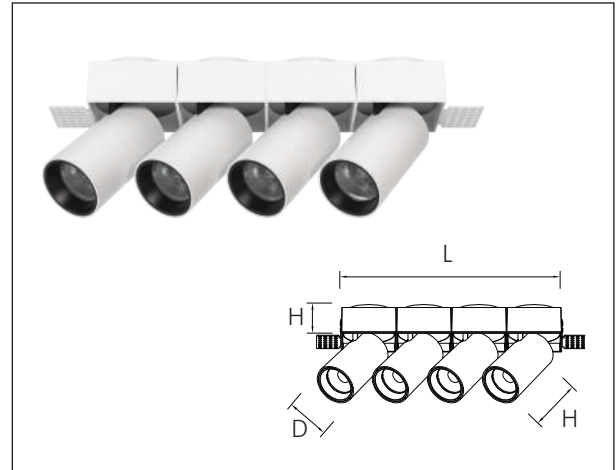
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