

Module CLE ADV5

Modules CLE advanced



Product description

- _ Ideal for ceiling-mounted and wallmounted luminaires
- _ SO version is compatible with SWITCH Sensor HF 5BP
- _ Integrated separate emergency LEDs with CLE 190/220/315/370mm controlled by EM powerLED
- _ Push terminals for quick and simple wiring
- _ HE ... High Efficiency, NM ... Nominal Mode, HO ... High Output
- _ UL 8750 certification for CLE 120mm 2500lm ADV5 articles
- _ Min. order quantity for CLE 50mm is 10 pcs. and for CLE 80 and 120mm 20 pcs.
- _ Long lifetime up to 72,000 hours
- _ 5 years guarantee (conditions at <https://www.tridonic.com/manufacture-guarantee-conditions>)

Optical properties

- _ Colour temperatures 2,700, 3,000 and 4,000 K
- _ Useful luminous flux up to 4,531 lm at Irated and tp = 25 °C
- _ Efficacy of the LED module 199 lm/W at Irated and tp = 25 °C
- _ High colour rendering index CRI > 80 and CRI > 90
- _ Small colour tolerance (MacAdam 3) ^①
- _ Small luminous flux tolerances

Mechanical properties

- _ Module dimension ø50, ø80, ø120, ø160, ø190, ø220, ø315 and ø370 mm
- _ Simple installation (e.g. screws)

System solution

- _ LED system solution consisting of the LED module, the LED driver with integrated emergency function and SWITCH sensor

^① Integral measurement over the complete module.

Website

<http://www.tridonic.com/28004187>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

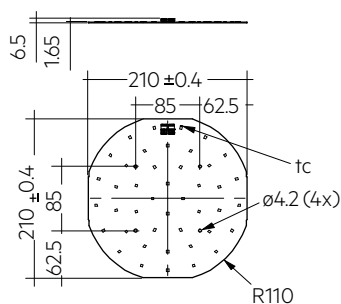


High bay

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The complete data sheet for this product is available in the Downloads section.

**Ordering data**

Type	Article number	Article status	Colour temperature	Colour rendering index CRI	Packaging, carton	Weight per pc.
CLE 220mm 2500lm						
CLE 220mm 2500lm 830 ADV5 EM	28004187	Standard	3,000 K	>80	50 pc(s).	0.103 kg

Technical data

Beam characteristic	120°
Ambient temperature t_a	-25 ... +45 °C
t_p rated	65 °C
t_c	85 °C
I _{rated} for CLE 50mm	180 mA
I _{rated} for CLE 80mm	350 mA
I _{rated} for CLE 120mm	350 mA
I _{rated} for CLE 160mm	500 mA
I _{rated} for CLE 190/220mm	350 mA
I _{rated} for CLE 315/370mm	600 mA
I _{max} for CLE 50mm	300 mA
I _{max} for CLE 80mm	650 mA
I _{max} for CLE 120mm	645 mA
I _{max} for CLE 160mm	850 mA
I _{max} for CLE 190/220mm	700 mA
I _{max} for CLE 315/370mm	1,200 mA
Max. permissible LF current ripple for CLE 50mm	330 mA
Max. permissible LF current ripple for CLE 80mm	715 mA
Max. permissible LF current ripple for CLE 120mm	710 mA
Max. permissible LF current ripple for CLE 160mm	935 mA
Max. permissible LF current ripple for CLE 190/220mm	770 mA
Max. permissible LF current ripple for CLE 315/370mm	1,320 mA
Max. permissible peak current for CLE 50mm	900 mA / max. 10 ms
Max. permissible peak current for CLE 80mm	1,350 mA / max. 10 ms
Max. permissible peak current for CLE 120mm	1,800 mA / max. 10 ms
Max. permissible peak current for CLE 160mm	2,250 mA / max. 10 ms
Max. permissible peak current for CLE 190/220mm	1,350 mA / max. 10 ms
Max. permissible peak current for CLE 315mm	2,700 mA / max. 10 ms
Max. permissible peak current for CLE 370mm	4,500 mA / max. 10 ms
Max. working voltage for insulation ^②	200 V
Insulation test voltage	1.4 kV
ESD classification	Severity level 2
Risk group (IEC 62471)	RG1
Type of protection	IP00
Lumen maintenance L70B50	72,000 h
Guarantee (conditions at www.tridonic.com)	5 Year(s)

Approval marks**Standards**

IEC 62031, IEC 62471, IEC 62778, IEC 61547

Specific technical data

Type	Article number	Photometric code	Useful luminous flux at $t_p = 25\text{ °C}$	Expected luminous flux at t_p rated ^④	Typ. forward current	Min. forward voltage at t_p rated	Max. forward voltage at $t_p = 25\text{ °C}$	Power consumption P_{on} at $t_p = 25\text{ °C}$	Efficacy of the module at $t_p = 25\text{ °C}$	Expected efficacy of the module at t_p rated	Colour rendering index CRI
CLE 190/220mm – Operating mode HE at 250 mA											
CLE 220mm 2500lm 830 ADV5 EM	28004187	830/359	–	1,550 lm	250 mA	33.6 V	36.7 V	–	–	176 lm/W	>80
CLE 190/220mm – Operating mode NM at 350 mA											
CLE 220mm 2500lm 830 ADV5 EM	28004187	830/359	2,302 lm	2,140 lm	350 mA	34.2 V	37.3 V	12.7 W	182 lm/W	171 lm/W	>80
CLE 190/220mm – Operating mode HO at 500 mA											
CLE 220mm 2500lm 830 ADV5 EM	28004187	830/359	–	2,980 lm	500 mA	34.9 V	38.1 V	–	–	163 lm/W	>80
CLE 190/220mm – Emergency operation at 350 mA (EM powerLED 1 W)											
CLE 220mm 2500lm 830 ADV5 EM	28004187	830/359	–	168 lm	350 mA	–	–	–	–	–	>80
CLE 190/220mm – Emergency operation at 600 mA (EM powerLED 2 W)											
CLE 220mm 2500lm 830 ADV5 EM	28004187	830/359	–	280 lm	600 mA	–	–	–	–	–	>80

② If mounted with recommended screws see chapter 3.1 Electrical supply / choice of LED driver in data sheet.

③ Tolerance of useful light flux - 0 % / + 15 %. Measurement uncertainty ± 10 %.

④ Tolerance of expected light flux - 0 % / + 15 %. Measurement uncertainty ± 10 %. Based on calculation.

⑤ Tolerance of power consumption P_{on} ± 10 %. Measurement uncertainty ± 5 %.