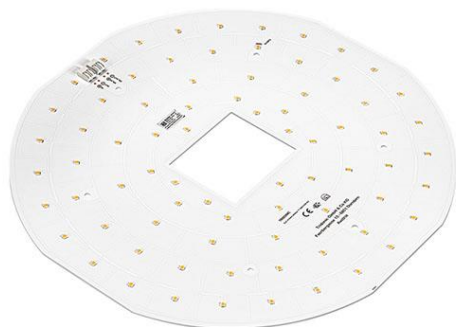


## Module CLE ADV5

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
- \_ 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 [www.tridonic.com](http://www.tridonic.com))

### 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) <sup>①</sup>
- \_ 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

<sup>①</sup> Integral measurement over the complete module.

### Website

<http://www.tridonic.com/28004196>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

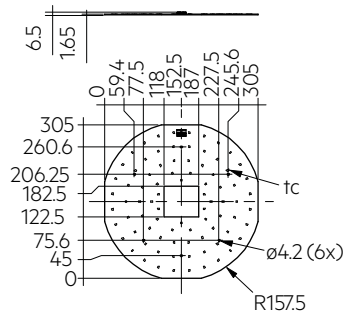


High bay

## Module CLE ADV5

## Modules CLE advanced

**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 315mm 4000lm                |                |                |                    |                            |                   |                |
| CLE 315mm 4000lm 840 ADV5 EM SO | 28004196       | Standard       | 4,000 K            | >80                        | 10 pc(s).         | 0.199 kg       |
| CLE 315mm 4000lm 840 ADV5 EM SO | 28004196       | Standard       | 4,000 K            | >80                        | 10 pc(s).         | 0.199 kg       |

**Technical data**

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| Beam characteristic                                  | 120°                  |
| Ambient temperature ta                               | -25 ... +45 °C        |
| tp rated                                             | 65 °C                 |
| tc                                                   | 85 °C                 |
| Irated for CLE 50mm                                  | 180 mA                |
| Irated for CLE 80mm                                  | 350 mA                |
| Irated for CLE 120mm                                 | 350 mA                |
| Irated for CLE 160mm                                 | 500 mA                |
| Irated for CLE 190/220mm                             | 350 mA                |
| Irated for CLE 315/370mm                             | 600 mA                |
| I <sub>max</sub> for CLE 50mm                        | 300 mA                |
| I <sub>max</sub> for CLE 80mm                        | 650 mA                |
| I <sub>max</sub> for CLE 120mm                       | 645 mA                |
| I <sub>max</sub> for CLE 160mm                       | 850 mA                |
| I <sub>max</sub> for CLE 190/220mm                   | 700 mA                |
| I <sub>max</sub> 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 <sup>②</sup>     | 200 V                 |
| Insulation test voltage                              | 1.4 kV                |
| ESD classification                                   | Severity level 2      |
| Risk group (IEC 62471)                               | RG1                   |
| Type of protection                                   | IPO0                  |
| Lumen maintenance L70B50                             | 72,000 h              |
| Guarantee                                            | 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 tp = 25 °C <sup>③</sup> | Expected luminous flux at tp rated | Typ. forward current | Min. forward voltage at tp rated | Max. forward voltage at tp = 25 °C | Power consumption Pon at tp = 25 °C <sup>⑤</sup> | Efficacy of the module at tp = 25 °C | Expected efficacy of the module at tp rated | Colour rendering index CRI |
|----------------------------------------------------------------------|----------------|------------------|-------------------------------------------------|------------------------------------|----------------------|----------------------------------|------------------------------------|--------------------------------------------------|--------------------------------------|---------------------------------------------|----------------------------|
| <b>CLE 315mm – Operating mode HE at 500 mA</b>                       |                |                  |                                                 |                                    |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 3,220 lm                           | 500 mA               | 33.6 V                           | 36.7 V                             | –                                                | –                                    | 183 lm/W                                    | >80                        |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 3,220 lm                           | 500 mA               | 33.6 V                           | 36.7 V                             | –                                                | –                                    | 183 lm/W                                    | >80                        |
| <b>CLE 315mm – Operating mode NM at 600 mA</b>                       |                |                  |                                                 |                                    |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | 4,113 lm                                        | 3,830 lm                           | 600 mA               | 33.9 V                           | 37.0 V                             | 21.6 W                                           | 191 lm/W                             | 180 lm/W                                    | >80                        |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | 4,113 lm                                        | 3,830 lm                           | 600 mA               | 33.9 V                           | 37.0 V                             | 21.6 W                                           | 191 lm/W                             | 180 lm/W                                    | >80                        |
| <b>CLE 315mm – Operating mode HO at 700 mA</b>                       |                |                  |                                                 |                                    |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 4,440 lm                           | 700 mA               | 34.2 V                           | 37.3 V                             | –                                                | –                                    | 178 lm/W                                    | >80                        |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 4,440 lm                           | 700 mA               | 34.2 V                           | 37.3 V                             | –                                                | –                                    | 178 lm/W                                    | >80                        |
| <b>CLE 315mm – Emergency operation at 600 mA (EM powerLED 2 W)</b>   |                |                  |                                                 |                                    |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 301 lm                             | 600 mA               | –                                | –                                  | –                                                | –                                    | –                                           | >80                        |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 301 lm                             | 600 mA               | –                                | –                                  | –                                                | –                                    | –                                           | >80                        |
| <b>CLE 315mm – Emergency operation at 1,000 mA (EM powerLED 4 W)</b> |                |                  |                                                 |                                    |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 484 lm                             | 1,000 mA             | –                                | –                                  | –                                                | –                                    | –                                           | >80                        |
| CLE 315mm 4000lm 840 ADV5 EM SO                                      | 28004196       | 840/359          | –                                               | 484 lm                             | 1,000 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 Pon ± 10 %. Measurement uncertainty ± 5 %.