

50 PLE 48CV

12W / 10W / 8W 48V DC CONSTANT VOLTAGE LED ENGINE

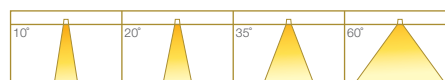
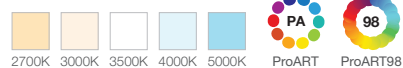
50 PLE 48CV 12W is formerly known as 50 PLE 48CV
50 PLE 48CV 10W is formerly known as 50 CLE 48CV
50 PLE 48CV 8W is formerly known as 50 CLO 48CV



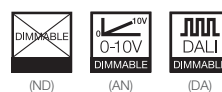
AVAILABLE OPTIONS

LED MODULE

SINGLE CCT



DRIVER DIMMING



TECHNOLOGY AND FEATURES



Advanced Thermal Protection System



Converging Optical Lens
Maximising LOR

DIMENSIONS (MM)



For designated fixtures only and NOT to be operated independently or with downlight fixtures.

LED Module

SPECIFICATIONS

| | | | |
|---------------------------|---|---------------------|--|
| Family Type | 50 Series | Ingress Protection | IP40 for 10° beam, IP54 for 20°/35°/60° beam |
| Typical Operating Voltage | 48V | Weight | 70g |
| Typical Operating Current | 250mA (50 PLE 48CV 12W), 210mA (50 PLE 48CV 10W), 165mA (50PLE 48CV 8W) | Dimming | Compatible with non-dim or 0-10V, DALI, DMX dimmable 48V DC constant voltage drivers |
| System / Input Power | 12W (50 PLE 48CV 12W), 10W (50 PLE 48CV 10W), 8W (50PLE 48CV 8W) | Mains Connection | 2x0.5mm ² double insulated wires |
| Colour | Black | Mains Voltage | 48V DC constant voltage |
| Materials | Aluminium, plastic | Power Factor | N/A |
| Compatibility | Compatible with ELR NEBULA-3 fixture variants | Fire Safety | Glow wire test 850°C, UL94V-0, VW-1 |
| Lifetime | 50,000 hours (80% lumen maintenance at Ta = 25°C), B10 | Flammability Mark | F |
| Beam Angles | 10°, 20°, 35°, 60° | Safety Class | Class 3 |
| Colour Temperatures | 2700K, 3000K, 3500K, 4000K, 5000K | Standards | IEC 62031 |
| CRI | High Efficiency ProART (CRI-95), ProART98 (CRI-98) | Regulatory Markings | CE, RoHS |
| SDCM | 2 step MacAdam ellipse binning | | |

50 PLE 48CV 12W

| Beam Angle | Height (m) | Emax (lx) | ELR LED Engine | | Luminous Flux (lm) | | | | | |
|------------|------------|------------|----------------|-------------|--------------------|-------|------|------|------|------|
| | | | Type | Input Power | CRI | 3000K | | | | |
| | | | | | | 10° | 20° | 35° | 60° | |
| 10° | 1 | E(0°) | 9988 | 6884 | 4048 | 1565 | 1254 | 1539 | 1539 | 1539 |
| | | Cone Ø (m) | 0.19 | 0.34 | 0.58 | 1.10 | | | | |
| 20° | 2 | E(0°) | 2497 | 1721 | 1012 | 391 | 840 | 1031 | 1031 | 1031 |
| | | Cone Ø (m) | 0.37 | 0.68 | 1.15 | 2.20 | | | | |
| 35° | 3 | E(0°) | 1110 | 765 | 450 | 174 | 700 | 860 | 860 | 860 |
| | | Cone Ø (m) | 0.56 | 1.03 | 1.73 | 3.30 | | | | |
| 60° | 4 | E(0°) | 624 | 430 | 253 | 98 | 836 | 1026 | 1026 | 1026 |
| | | Cone Ø (m) | 0.74 | 1.37 | 2.31 | 4.40 | | | | |
| 60° | 5 | E(0°) | 400 | 275 | 162 | 63 | 560 | 687 | 687 | 687 |
| | | Cone Ø (m) | 0.93 | 1.71 | 2.89 | 5.50 | | | | |

Correction Factor: 50PLE 48CV 12W - f = 1.00
 50PLE 48CV 10W - f = 0.83
 50PLE 48CV 8W - f = 0.67

Data are based on 3000K (High Efficiency ProART CRI-95). Nominal data of 2700K and 3500K are shared with 3000K. Higher CCT of 4000K and 5000K will have a nominal data value of 5% higher than published. (f = 1.05)
 ProART98 CRI-98 will have a nominal data value of 33% lower than published. (f = 0.67)

Nominal CRI-95, equals to Ra>90-97, R9>50
 Nominal CRI-98, equals to Ra>97-99, R9>93

| LED Engine | | | | | | | |
|------------------|-----|------------|-----|-------------|-------|-----|----------|
| Input Power | | Beam Angle | | Colour Temp | | CRI | |
| ELR50PLE-48CV.12 | 12W | 10 | 10° | 27 | 2700K | PA | ProART |
| ELR50PLE-48CV.10 | 10W | 20 | 20° | 30 | 3000K | PP | ProART98 |
| ELR50PLE-48CV.8 | 8W | 35 | 35° | 35 | 3500K | | |
| | | 40 | 60° | 40 | 4000K | | |
| | | 50 | | 50 | 5000K | | |

example: ELR50PLE-48CV.12.35.40.PA

*Drivers for 48CV LED engines are sold separately.