

100 PLE / 100 CLE / 100 CLO 48CV

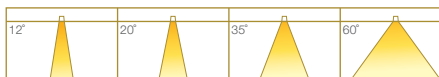
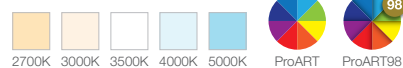
23W / 17W / 12W 48V DC CONSTANT VOLTAGE LED ENGINE



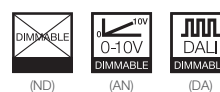
AVAILABLE OPTIONS

LED MODULE

SINGLE CCT



DRIVER DIMMING



TECHNOLOGY AND FEATURES

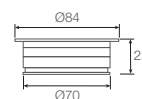


Advanced Thermal Protection System



Converging Optical Lens
Maximising LOR

DIMENSIONS (MM)



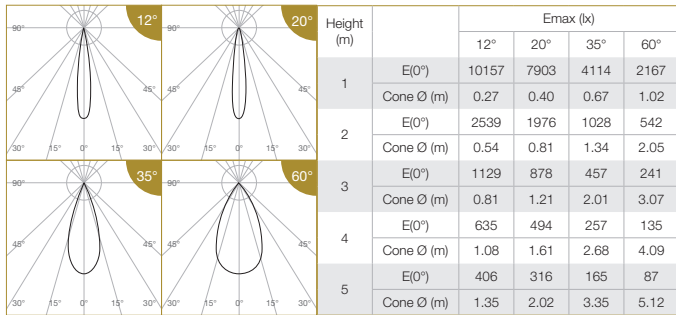
For designated fixtures only and NOT to be operated independently or with downlight fixtures.

SPECIFICATIONS

Family Type	100 Series
Input Voltage	48V DC Constant Voltage
Input Power	23W (100 PLE 48CV), 17W (100 CLE 48CV), 12W (100 CLO 48CV)
Colour	Black
Installation Compatibility	Compatible with ELR NEBULA-4 fixture variants
Lifetime	50,000 hours (80% lumen maintenance at Ta = 35°C), B10
Beam Angles	12°, 20°, 35°, 60°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K
CRI	High Efficiency (CRI-85), ProART (CRI-95), ProART98 (CRI-98)
SDCM	2 step MacAdam ellipse binning

Driver (Dimming)	Compatible with non-dim or 0-10V, DALI dimmable 48V DC constant voltage drivers
Materials	Aluminium, plastic
Fire Safety	Glow wire test 850°C, UL94V-0, VW-1
Flammability Mark	F
Ingress Protection	IP40 for 10° beam, IP54 for 20°/35°/60° beam (module only)
Standards	IEC 62031
Regulatory Markings	CE, RoHS
Weight	140g

100 PLE / 100 CLE / 100 CLO 48CV



Correction Factor: 100CLE-48CV - f = 0.74
100CLO-48CV - f = 0.52

ELR LED Module			Luminous Flux (lm)			
Type	Input Power	CRI	3000K			
			12°	20°	35°	60°
100 PLE 48CV	23W	High Efficiency CRI-85	2200	2200	2200	2200
		ProART CRI-95	1870	1870	1870	1870
		ProART98 CRI-98	1540	1540	1540	1540
100 CLE 48CV	17W	High Efficiency CRI-85	1630	1630	1630	1630
		ProART CRI-95	1386	1386	1386	1386
		ProART98 CRI-98	1141	1141	1141	1141
100 CLO 48CV	12W	High Efficiency CRI-85	1150	1150	1150	1150
		ProART CRI-95	978	978	978	978
		ProART98 CRI-98	805	805	805	805

Data are based on 3000K (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)
High Efficiency CRI-85 will have a nominal data value of 15% higher than published. (f = 1.17)
ProART98 CRI-98 will have a nominal data value of 18% lower than published. (f = 0.82)

Nominal CRI-85, equals to Ra>80-87, R9>0
Nominal CRI-95, equals to Ra>90-97, R9>50
Nominal CRI-98, equals to Ra>97-99, R9>93

ORDERING MATRIX CHART

LED Module						
Input Power		Beam Angle		Colour Temp		CRI
ELR100PLE-48CV	23W	12	12°	27	2700K	HE Ra-85
ELR100CLE-48CV	17W	20	20°	30	3000K	PA ProART
ELR100CLO-48CV	12W	35	35°	35	3500K	PP ProART98
		40	40°	40	4000K	
		50	50°	50	5000K	

example: ELR100CLE-48CV.20.40.PA

*Drivers for 48CV LED modules are sold separately, please refer to recommended driver list.