100 PLE 48CV

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

100 PLE 48CV 23W is formerly known as 100 PLE 48CV
100 PLE 48CV 17W is formerly known as 100 CLE 48CV
100 PLE 48CV 12W is formerly known as 100 CLO 48CV

AVAILABLE OPTIONS

LED MODULE

SINGLE CCT

2700K 3000K 3500K 4000K 5000K

ProART ProART98

12° 20° 35° 60°

DRIVER
DIMMING

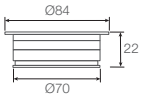
(ND) (AN) (DA)

TECHNOLOGY AND FEATURES

ATePS
Advanced Thermal Protection System

BEAM
Converging Optical Lens Maximising LOR

DIMENSIONS (MM)



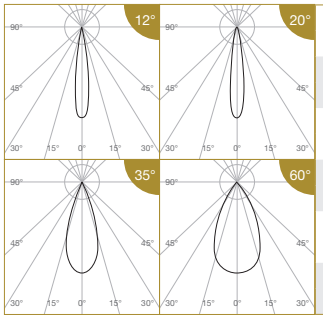
For designated fixtures only and NOT to be operated independently or with downlight fixtures.

SPECIFICATIONS

Family Type	100 Series
Typical Operating Voltage	48V
Typical Operating Current	480mA (100 PLE 48CV 23W), 350mA (100 PLE 48CV 17W), 250mA (100 PLE 48CV 12W)
System / Input Power	23W (100 PLE 48CV 23W), 17W (100 PLE 48CV 17W), 12W (100 PLE 48CV 12W)
Colour	Black
Materials	Aluminium, plastic
Compatibility	Compatible with ELR SNOOP-4 and ELR NEBULA-4 fixture variants
Lifetime	50,000 hours (80% lumen maintenance at Ta = 25°C), B10
Beam Angles	12°, 20°, 35°, 60°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K
CRI	High Efficiency ProART (CRI~95), ProART98 (CRI~98)
SDCM	2 step MacAdam ellipse binning

Ingress Protection	IP40 for 12° beam, IP54 for 20°/35°/60° beam
Weight	140g
Dimming	Compatible with non-dim or 0-10V, DALI, DMX dimmable 48V DC constant voltage drivers
Mains Connection	2x0.5mm² double insulated wires
Mains Voltage	48V DC constant voltage
Power Factor	N/A
Fire Safety	Glow wire test 850°C, UL94V-0, VW-1
Flammability Mark	F
Safety Class	Class 3
Standards	IEC 62031
Regulatory Markings	CE, RoHS

100 PLE 48CV 23W



Height (m)		Emax (lx) 12°	20°	35°	60°
1	E(0°)	16030	12471	6492	3421
	Cone Ø (m)	0.27	0.40	0.67	1.02
2	E(0°)	4007	3118	1623	855
	Cone Ø (m)	0.54	0.81	1.34	2.05
3	E(0°)	1781	1386	721	380
	Cone Ø (m)	0.81	1.21	2.01	3.07
4	E(0°)	1002	779	406	214
	Cone Ø (m)	1.08	1.61	2.68	4.09
5	E(0°)	641	499	260	137
	Cone Ø (m)	1.35	2.02	3.35	5.12

ELR LED Engine			Luminous Flux (lm) 3000K			
Type	Input Power	CRI	12°	20°	35°	60°
100 PLE 48CV	23W	High Efficiency ProART CRI~95	2950	2950	2950	2950
		ProART98 CRI~98	1977	1977	1977	1977
	17W	High Efficiency ProART CRI~95	2180	2180	2180	2180
		ProART98 CRI~98	1461	1461	1461	1461
	12W	High Efficiency ProART CRI~95	1539	1539	1539	1539
		ProART98 CRI~98	1031	1031	1031	1031

Correction Factor: *100PLE 48CV 23W – ƒ = 1.00*
100PLE 48CV 17W – ƒ = 0.74
100PLE 48CV 12W – ƒ = 0.52

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. (ƒ = 1.05) ProART98 CRI~98 will have a nominal data value of 33% lower than published. (ƒ = 0.67)

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

ORDERING MATRIX CHART

LED Engine							
Input Power		Beam Angle		Colour Temp		CRI	
.		.		.		.	
ELR100PLE-48CV.23	23W	**12**	12°	**27**	2700K	**PA**	ProART
ELR100PLE-48CV.17	17W	**20**	20°	**30**	3000K	**PP**	ProART98
ELR100PLE-48CV.12	12W	**35**	35°	**35**	3500K		
		60	60°	**40**	4000K		
				50	5000K		

example: ELR100PLE-48CV.23.20.40.PA
**Drivers for 48CV LED engines are sold separately.*