50 PLE

17W / 12W / 10W / 8W LED ENGINE

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

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

AVAILABLE OPTIONS

LED MODULE

SINGLE CCT

2700K 3000K 3500K 4000K 5000K

PA ProART

98 ProART98

DRIVER
DIMMING

DIMMABLE (ND) | PHASE DIMMABLE (PH) | 0-10V DIMMABLE (AN) | DALI DIMMABLE (DA)

TECHNOLOGY AND FEATURES

ATePS
Advanced Thermal Protection System

ComfyEYE
Low Flicker, No Risk (IEEE 1789)

BEAM
Converging Optical Lens Maximising LOR

DIMENSIONS (MM)

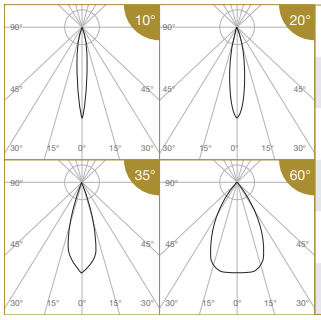
The information above is at nominal values accuracy of +/-7%. For the latest specifications please refer to the website.

SPECIFICATIONS

Family Type	50 Series
Typical Operating Voltage	34V
Typical Operating Current	500mA (50 PLE 17W), 350mA (50 PLE 12W), 300mA (50 PLE 10W), 230mA (50 PLE 8W)
System / Input Power	20.7W (50 PLE 17W), 14.6W (50 PLE 12W), 12.2W (50 PLE 10W), 9.8W (50 PLE 8W)
Colour	Black
Materials	Aluminium, plastic
Compatibility	Compatible with ELR NEBULA-3 fixture variants
Lifetime	50,000 hours (80% lumen maintenance at Ta = 25°C), B10
Beam Angles	10°, 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 10° beam, IP54 for 20°/35°/60° beam (LED engine only)
Weight	70g (LED engine), 156g (driver)
Dimming	Non-dim, phase (leading & trailing edge), 0-10V, DALI
Mains Connection	Screw terminals for convenient connection
Mains Voltage	220-240V, 50Hz
Power Factor	>0.9
Fire Safety	Glow wire test 850°C, UL94V-0, VW-1
Flammability Mark	F
Safety Class	Class 2
Standards	IEC 62031, IEC 61347-2-13
Regulatory Markings	CE, CB, CCC, RCM, BIS, TIS, SIRIM-ST, RoHS

50 PLE 12W SINGLE CCT



Height (m)		Emax (lx)			
		10°	20°	35°	60°
1	E(0°)	10513	7246	4261	1648
	Cone Ø (m)	0.19	0.34	0.58	1.10
2	E(0°)	2628	1812	1065	412
	Cone Ø (m)	0.38	0.68	1.15	2.20
3	E(0°)	1168	805	473	183
	Cone Ø (m)	0.57	1.03	1.73	3.30
4	E(0°)	657	453	266	103
	Cone Ø (m)	0.76	1.37	2.31	4.40
5	E(0°)	421	290	170	66
	Cone Ø (m)	0.95	1.71	2.89	5.50

Correction Factor:
50PLE 17W ~ ƒ = 1.29
50PLE 12W ~ ƒ = 1.00
50PLE 10W ~ ƒ = 0.83
50PLE 8W ~ ƒ = 0.67

ELR LED Engine				Luminous Flux (lm)			
Type	LED Power	System Power	CRI	3000K			
				10°	20°	35°	60°
50 PLE	17W	20.7W	High Efficiency ProART CRI~95	1700	2091	2091	2091
			ProART98 CRI~98	1139	1401	1401	1401
	12W	14.6W	High Efficiency ProART CRI~95	1320	1620	1620	1620
			ProART98 CRI~98	884	1085	1085	1085
	10W	12.2W	High Efficiency ProART CRI~95	1100	1350	1350	1350
			ProART98 CRI~98	737	905	905	905
	8W	9.8W	High Efficiency ProART CRI~95	880	1080	1080	1080
			ProART98 CRI~98	590	724	724	724

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							
LED Power		Beam Angle		Colour Temp		CRI	
ELR50PLE.17	17W	10	10°	27	2700K	PA	ProART
ELR50PLE.12	12W	20	20°	30	3000K	PP	ProART98
ELR50PLE.10	10W	35	35°	35	3500K		
ELR50PLE.8	8W	60	60°	40	4000K		
				50	5000K		

example: ELR50PLE.12.35.40.PA

Driver					
Type		Dimming		Output Power	
MP.DRA	Modular Pro ATePS Driver	ND	Non-Dim	17	17W
		PH	Phase	12	12W
		AN	0-10V	10	10W
		DA	DALI	8	8W

example: MP.DRA.DA.12

Note: Please ensure that LED Power of LED engine matches the Output Power of driver when ordering.