50 PLE / 50 CLE / 50 CLO

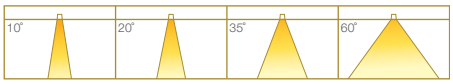
12W / 10W / 8W LED ENGINE

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

AVAILABLE OPTIONS

LED MODULE

SINGLE CCT



DRIVER
DIMMING

(ND) (PH) (AN) (DA)

TECHNOLOGY AND FEATURES

Advanced Thermal Protection System

Low Flicker, No Risk (IEEE 1789)

Converging Optical Lens Maximising LOR

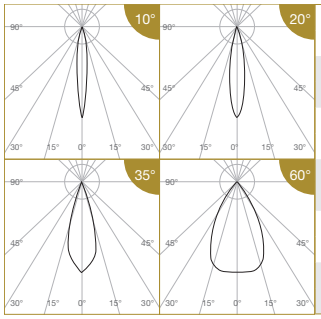
DIMENSIONS (MM)

SPECIFICATIONS

Family Type	50 Series
Mains Voltage	220-240V, 50Hz
Typical Operating Voltage	34V
Typical Operating Current	350mA (50 PLE), 300mA (50 CLE), 230mA (50 CLO)
Colour	Black
Installation Compatibility	Compatible with ELR NEBULA-3 fixture variants
Lifetime	50,000 hours (80% lumen maintenance at Ta = 35°C), B10
Beam Angles	10°, 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)	Non-dim, phase (leading & trailing edge), 0-10V, DALI
Mains Connection	Screw terminals for convenient connection
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)
Safety Class	Class 2
Standards	IEC 62031, IEC 61347-2-13
Regulatory Markings	CE, CB, CCC, RCM, BIS, TIS, SIRIM-ST, RoHS
Weight	70g

50 PLE / 50 CLE / 50 CLO SINGLE CCT



Height (m)		Emax (lx)			
		10°	20°	35°	60°
1	E(0°)	8801	5703	3354	1297
	Cone Ø (m)	0.19	0.34	0.58	1.10
2	E(0°)	2200	1426	838	324
	Cone Ø (m)	0.37	0.68	1.15	2.20
3	E(0°)	978	634	373	144
	Cone Ø (m)	0.56	1.03	1.73	3.30
4	E(0°)	550	356	210	81
	Cone Ø (m)	0.74	1.37	2.31	4.40
5	E(0°)	352	228	134	52
	Cone Ø (m)	0.93	1.71	2.89	5.50

Correction Factor:
50CLE (10°) ~ ƒ = 0.78 *50CLE (20°, 35°, 60°) ~ ƒ = 0.80*
50CLO (10°) ~ ƒ = 0.62 *50CLO (20°, 35°, 60°) ~ ƒ = 0.71*

ELR LED Module				Luminous Flux (lm)			
Type	LED Power	System Power	CRI	3000K			
				10°	20°	35°	60°
50 PLE	12W	15.2W	High Efficiency CRI~85	1300	1500	1500	1500
			ProART CRI~95	1105	1275	1275	1275
			ProART98 CRI~98	910	1050	1050	1050
50 CLE	10W	12.8W	High Efficiency CRI~85	1020	1200	1200	1200
			ProART CRI~95	867	1020	1020	1020
			ProART98 CRI~98	714	840	840	840
50 CLO	8W	11W	High Efficiency CRI~85	810	1070	1070	1070
			ProART CRI~95	689	910	910	910
			ProART98 CRI~98	567	749	749	749

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. (ƒ = 1.05)
High Efficiency CRI~85 will have a nominal data value of 15% higher than published. (ƒ = 1.17)
ProART98 CRI~98 will have a nominal data value of 18% lower than published. (ƒ = 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								Driver	
LED Power		Beam Angle		Colour Temp		CRI		Dimming	
.____		.____		.____		.____		.____	
ELR50PLE	12W	**10**	10°	**27**	2700K	**HE**	Ra~85	**ND**	Non-Dim
ELR50CLE	10W	**20**	20°	**30**	3000K	**PA**	ProART	**PH**	Phase
ELR50CLO	8W	**35**	35°	**35**	3500K	**PP**	ProART98	**AN**	0-10V
		60	60°	**40**	4000K			**DA**	DALI
				50	5000K				

example: ELR50PLE.35.40.PA.DA