

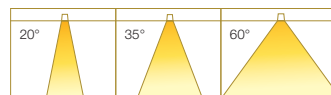
50 PLE HORTI

12W / 10W HORTICULTURE LED ENGINE



AVAILABLE OPTIONS

LED MODULE



DRIVER DIMMING



TECHNOLOGY AND FEATURES

ATePS
Advanced Thermal Protection System

ComfyEYE
Low Flicker, No Risk (IEEE 1789)

BEAM
Converging Optical Lens Maximising LOR

DIMENSIONS (MM)



SPECIFICATIONS

Family Type	50 Series
Typical Operating Voltage	34V
Typical Operating Current	350mA (50 PLE 12W), 300mA (50 PLE 10W), 230mA (50 PLE 8W)
LED Power	50 PLE 17W, 50 PLE 12W, 50 PLE 10W
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 size-3 fixtures or most MR16 fittings, ELR size-4 fixtures or most AR70 fittings with optional mounting brackets.
Lifetime	50,000 hours (80% lumen maintenance at Ta = 25°C), B10
Beam Angles	20°, 35°, 60°
Colour Temperatures	Horti spectrum
PPFD @ 1000(μmol/m²/s) lux	32
SDCM	N/A

Ingress Protection	IP54 (LED module only)
Weight	70g
Dimming	Non-dim, phase (leading & trailing edge), 0-10V, DALI
Mains Connection	100mm 2x0.75mm² double insulated wires
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 HORTI

Height (m)		PPFD			ELR LED Module			PPF (μmol/s)		
		20°	35°	60°	Type	LED Power	System Power	Horti Spectrum		
1	PPFD(0°)	111.78	101.24	39.18	50 PLE HT	12W	14.6W	20°	35°	60°
2	PPFD(0°)	55.89	50.62	19.59				30	30	30
3	PPFD(0°)	27.94	25.31	9.79		10W	12.2W	25	25	25
4	PPFD(0°)	13.97	12.66	4.90						
5	PPFD(0°)	6.99	6.33	2.45						

Photosynthetic Photon Flux Density (PPFD) is the intensity of Photosynthetically Active Radiation (PAR) light. PAR are wavelengths of light within 400nm to 700nm that are critical for photosynthesis.

ORDERING MATRIX CHART

LED Module						Driver					
LED Power		Beam Angle		Colour Temp		Type		Dimming		Output Power	
ELR50PLE.12	12W	20	20°	HT	Horti	MPDRA	Modular Pro ATePS Driver	ND	Non-Dim	12	12W
ELR50PLE.10	10W	35	35°					PH	Phase	10	10W
		60	60°					AN	0-10V		
								DA	DALI		

example: ELR50P.12.25.HT

example: MPDRA.DA.12

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