

# 50 PLE RGBW

## 12W RGB-WHITE LED ENGINE



### AVAILABLE OPTIONS

#### LED MODULE

RGBW



35°



60°



#### DRIVER DIMMING



(DA)



(DMX)

### TECHNOLOGY AND FEATURES



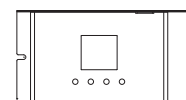
ComfyEYE

Low Flicker,  
No Risk  
(IEEE 1789)



Converging Optical Lens  
Maximising LOR

### DIMENSIONS (MM)



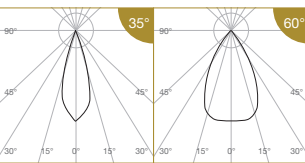
Euchips PX709 (DMX)  
L116 x W54 x H35

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

## SPECIFICATIONS

Family Type	50 Series	Ingress Protection	IP54 (LED engine only)
Typical Operating Voltage	21V	Weight	70g (LED engine only)
Typical Operating Current	140mA per channel (max.)	Dimming	Compatible with DALI or DMX dimmable constant current decoders
System / Input Power	14.6W	Mains Connection	Push-pin or screw terminals for convenient connection
Colour	Black	Mains Voltage	24-48V DC constant voltage
Materials	Aluminium, plastic	Power Factor	N/A
Compatibility	Compatible with ELR NEBULA-3 fixture variants	Fire Safety	Glow wire test 850°C, UL94V-0, VW-1
Lifetime	50,000 hours (80% lumen maintenance at Ta = 25°C), B10	Flammability Mark	F
Beam Angles	35°, 60°	Safety Class	Class 3
Colour Temperatures	RGBW (4000K)	Standards	IEC 62031
CRI	N/A	Regulatory Markings	CE, RoHS
SDCM	N/A		

## 50 PLE RGBW

		Height (m)		E <sub>max</sub> (lx)		ELR LED Engine				Luminous Flux (lm) at 3W per Channel	
				35°	60°	Type	LED Power	System Power	Independent Colour Channel	Wavelength (nm) / CCT	RGBW
1	E(0°)	1591	615	50 PLE RGBW	12W	14.6W	Red	632	155	155	
	Cone Ø (m)	0.58	1.10				Green	520	225	225	
2	E(0°)	398	154				Blue	452	80	80	
	Cone Ø (m)	1.15	2.20				White	4000K	145	145	
3	E(0°)	177	68				<p>Data are based on 3 Watts per channel. The 50P RGBW module allows a maximum limit of 12 Watts total LED lamp power at each instant of operation.</p> <p>Driver Recommendation:</p> <p>AC input, DALI / DMX 4 channel LED driver, configurable output current.</p> <p>DC input, DMX 4 channel decoder, configurable output current.</p> <p>*Recommended drivers allow the output current to be configured at preferred ratios between independent colour channels, subjected to total LED power not exceeding the allowed maximum limit of 12 Watts.</p>				
	Cone Ø (m)	1.73	3.30								
4	E(0°)	99	38								
	Cone Ø (m)	2.31	4.40								
5	E(0°)	64	25								
	Cone Ø (m)	2.89	5.50								
Example of 50P RGBW with maximum output current by equal ratio on every independent channel											
Independent Colour Channel		Voltage (V)		Configurable Output Current (A)		LED Power (W)					
Red		21		0.14		2.94					
Green		21		0.14		2.94					
Blue		21		0.14		2.94					
White		21		0.14		2.94					
Total LED Power (must not exceed 12W)									11.76		

## ORDERING MATRIX CHART

LED Engine				
LED Power		Beam Angle		Colour Temp
ELR50PLE.12	12W	35	35°	RGBW Red, Green, Blue, White (4000K)
		60	60°	

example: ELR50PLE.12.35.RGBW

\*Drivers for 50PLE RGBW LED engines are sold separately.