

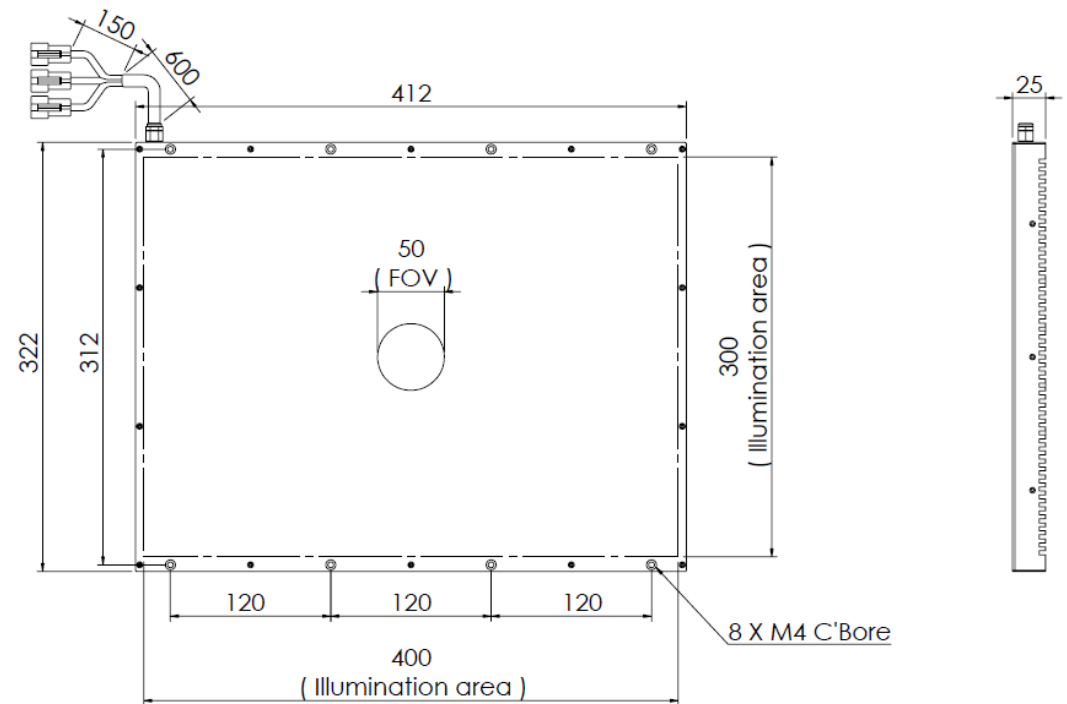
High Brightness Diffuse Back Light - Multicolor

FLDL-TP-Si400X300-C50-RGB

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	3264g
Lighting Dimension, WxLxH	412.0 x 322.0 x 25.0 mm
IP Rating	N/A

Unit in mm




Optical Information			
Led Color	RED (R)	GREEN (G)	BLUE (B)
Wavelength	626nm	525nm	470nm
Illumination (number of LED)	1260	1260	1260
Illumination Area	400 x 300 mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information			
	R	G	B
Lighting Supply Voltage (constant voltage mode)	24V ± 2%		
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	22.0V	21.0V	21.0V
Continuous Current	2.52A (MAX)	3.60A (MAX)	3.60A (MAX)
Power Consumption	60.48W	86.40W	86.40W
Total Power (R+G+B)	233.48W		
Lighting casing temperature, Operating after 60 minutes	>60°C (Attached to last metal part)		

Strobe Mode Specification			
	R	G	B
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC		
Pulse Current, (Max. 10msec) (Constant current power supply)	6.30A (MAX)	9.00A (MAX)	9.00A (MAX)
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option	
FLDL-TP-Si400X300-C50-RGB	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si400X300-C50-RGB-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		R/G/B		
Connector Type (Default):	JST SMR-03V			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:	750mm			

Additional Information		R/G/B		
Additional Cooling Method	Attached to machine part for better heat dissipation			
Life span in continuous mode	20,000 hours			
Life span in strobe light mode Lighting drop to 50% intensity (at 25°C ambient temperature)	50,000 hours			
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series			
CE Conformity	YES			
RoHS Compliance	YES			
ISO 9001:2008	SG11/03751			

Application	
Optimal Working Distance	20-100 mm



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