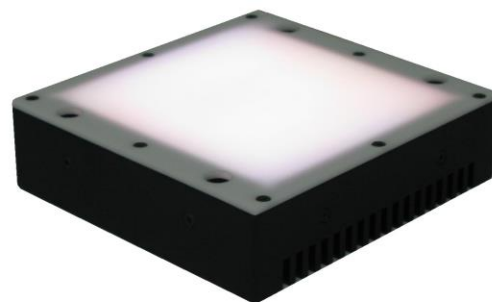


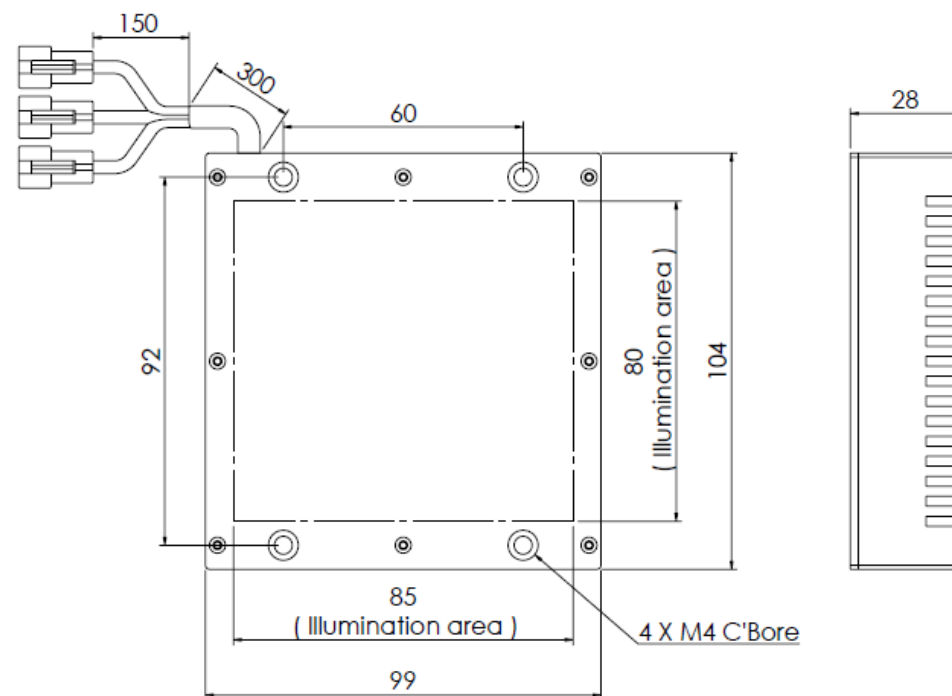
## High Brightness Diffuse Back Light - Multicolour

# FLDL-TP-Si85X80-RGB

Lighting Picture



Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	454g
Lighting Dimension, WxLxH	99.0 x 104.0 x 28.0 mm
IP Rating	IP 50




Optical Information			
Led Color	RED (R24)	GREEN (G)	BLUE (B)
Wavelength	626nm	525nm	470nm
Illumination (number of LED)	90	91	91
Illumination Area	85 x 80 mm		
Led Package	SMD		
Eye Safety (EN 62471:2008)	Exempt Group		

Electrical Information	R24	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	0.18 A (MAX)	0.26 A (MAX)	0.26 A (MAX)
Power Consumption	4.32 Watts	6.24 Watts	6.24 Watts
Total Power (R24+G+B)	16.80 Watts		
Lighting casing temperature, Operating after 60 minutes	72°C		

Strobe Mode Specification	R24	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)	0.45 A (MAX)	0.65 A (MAX)	0.65 A (MAX)
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option	
FLDL-TP-Si85x80-RGB	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si85X80-RGB-0	Internal resistor value= zero ohms (only use in constant current power supply)



<b>Connection</b>		R24/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:	450 mm			

<b>Additional Information</b>		R24/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	50,000 hours			
Lighting drop to 50% intensity (at 25°C ambient temperature)				
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series			
CE Conformity	YES			
RoHS Compliance	YES			
ISO 9001:2008	SG11/03751			

<b>Application</b>	
Optimal Working Distance	20-100 mm



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