

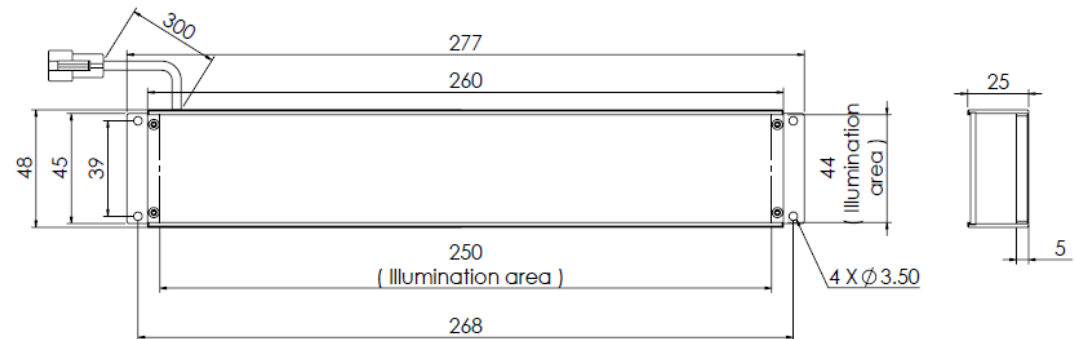
# High Brightness Diffuse Back Light

## **FLDL-TP-Si250X50**

### Lighting Picture



### Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium + Diffuser
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	415g
Lighting Dimension, WxLxH	277.0 x 48.0 x 25.0 mm
IP Rating	IP50




Optical Information					
Led Color	RED (R24)	InfraRed (IR)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	850nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	240	266	266	266	266
Illumination Area	250 x 44 mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				

Electrical Information	IR	R24	G/B/W
Lighting Supply Voltage (constant voltage mode)	12V ± 2%	24V ± 2%	
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Typical Lighting Forward voltage, Vf (for zero internal resistor value)	9.8 V	22.0 V	21.0 V
Continuous Current	0.95A (MAX)	0.96A (MAX)	0.76A (MAX)
Power Consumption	11.40 W	23.04 W	18.24 W
Lighting casing temperature, Operating after 60 minutes	48°C	58°C	55°C

Strobe Mode Specification	R	R24	G/B/W
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 15VDC	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC	
Pulse Current, (Max. 10msec) (Constant current power supply)	2.38A (MAX)	2.40A (MAX)	1.90A (MAX)
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option	
FLDL-TP-Si250X50-R24/IR/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FLDL-TP-Si250X50-R24/IR/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		IR			R24/G/B/W		
Connector Type (Default):		JST SMR-02V			JST SMR-03V		
	Pin	Signal	Cable Color	Pin	Signal	Cable Color	
	1	LED +	Black/White	1	LED +	Black/White	
	2	LED -	Black	2	N.C.	---	
				3	LED -	Black	
Cable Length out from lighting:		300 mm					

Additional Information		R24/IR/G/B/W
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	5-100 mm



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