

# Diffuse Back Light

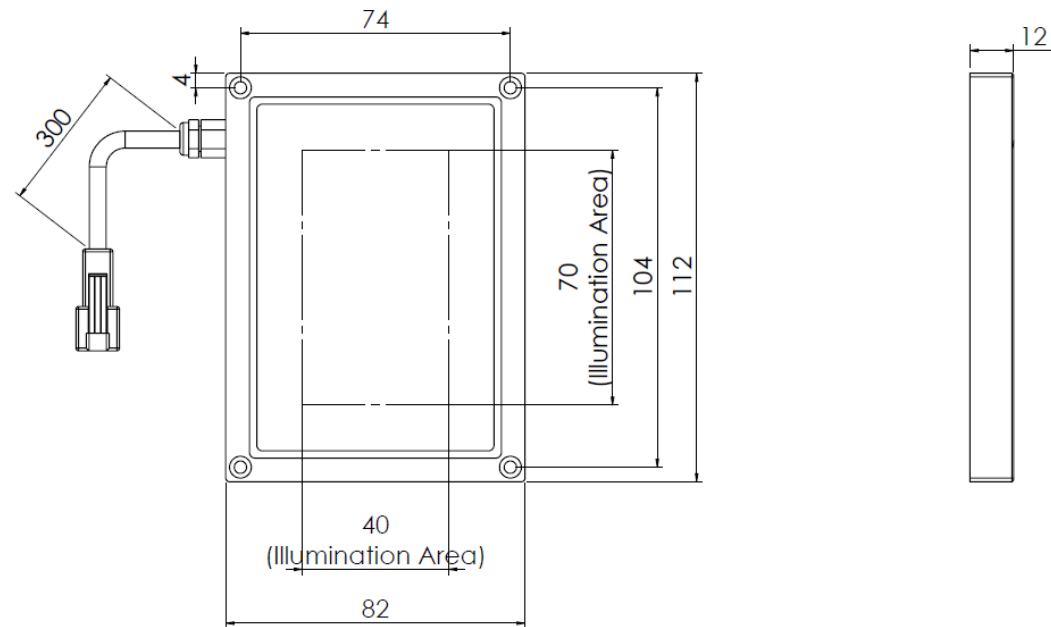


## FLFL-Si70X40N-IP54

Lighting Picture



Lighting Dimension



Mechanical Information	
Casing Material	Aluminum + Diffuser
Weight	130g
Operating Temperature	0°C to 40°C, Humidity 20%-85%
Storage Temperature	-20°C to 60°C, Humidity 20%-85%
Lighting Dimension W x L x H	112.0 x 82.0 x 12.0 mm
IP Rating	IP54

Unit in mm




Led Colour	RED (R24)	BLUE (B)	GREEN (G)	WHITE (W)
<b>Optical Information</b>				
Wavelength / Color temperature	626nm	470nm	525nm	xy=(0.31,0.32)
Illumination (Number of LED)	32	42	42	42
Illumination Area	70 x 40 mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			
Optimal Working Distance	10-100 mm			

Continuous Mode	Voltage Drive (With resistor)		Current Drive (Without resistor)	
	R24	W/G/B	R24	W/G/B
Supply Voltage To Controller	24VDC ± 2%	24VDC ± 2%	18.6VDC ± 2%	22VDC ± 2%
Lighting Forward Voltage, Vf	17.6 V	21V	17.6 V	21V
Max. Current	0.16A (MAX)	0.18A (MAX)	0.16A (MAX)	0.18A (MAX)
Max. Power	3.84W	4.32W	3.00W	3.96W

Strobe Mode	Voltage Drive		Current Drive	
	R24	W/G/B	R24	W/G/B
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC, Recommended at 36VDC	Pulsing at 24VDC to 48VDC, Recommended at 36VDC	Pulsing at 18.6VDC	Pulsing at 22VDC
Max. Current	0.40A (MAX)	0.45A (MAX)	0.40A (MAX)	0.45A (MAX)
Max. Trigger Pulse Duration	10 msec			
Duty Cycle	0 - 10%			

Ordering Part Number	Controller Type	Description
FLFL-Si70X40N-IP54-R24/W/G/B	Voltage Drive	With Resistor (Use in both constant voltage/ current power supply)
FLFL-Si70X40N-IP54-R24/W/G/B-0	Current Drive	Without Resistor (0 Ohm) (Only use in constant current power supply)



Connection	(Voltage & Current drive)			
Connector Type (Default):	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.	---	
	3	LED -	Black	
Cable Length out from lighting:	300 mm			

Additional Information	Details
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
Supply Ripple Voltage	$\leq V_s \pm 5\%$
Reverse Battery Protection	YES
Cooling Method	Natural air-cooling
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	PSA-Series, PSD-Series, LIC-Series
CE Conformity	YES
ISO 9001:2015	MY05916



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