



## Diffuse Back Light

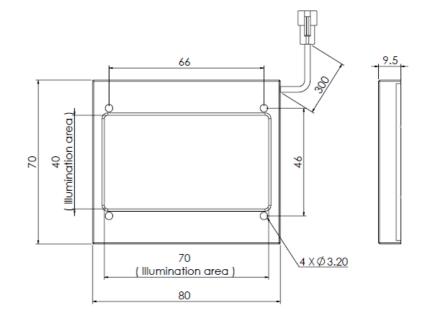
# **FLFL-Si70X40**

## **Lighting Picture**



Mechanical Information	
Casing Material	Aluminum + Acrylic
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	100g
Lighting Dimension, WxLxH	80.0 x 70.0 x 9.5 mm
IP Rating	IP50

### **Lighting Dimension**



Unit in mm







Optical Information					
Led Color	RED (R/R24)	InfraRed (IR)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	875nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	32	42	42	42	42
Illumination Area			70 x 40 mm		
Led Package			SMD		
Eye Safety (EN 62471:2008)			Exempt Group		

Electrical Information	R IR		R24	G/B/W			
Lighting Supply Voltage (constant voltage mode)	12V :	± 2%	24V ± 2%				
Supply Ripple Voltage		≤Vs	± 5%				
Reverse Battery Protection		YES					
Lighting Forward voltage, (for zero internal resistor value)	8.8 V	10.5 V	17.6 V	21.0 V			
Continuous Current	0.32 (MAX)	0.15A (MAX)	0.16 (MAX)	0.18A (MAX)			
Power Consumption	3.84 W	1.80 W	3.84 W	4.32 W			
Lighting casing temperature, Operating after 60 minutes	51°C	50°C	51°C	55°C			

Strobe Mode Specification	R IR		R24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 12V	DC to 24VDC,	Pulsing at 24VDC to 48VDC,		
(Constant voltage power supply)	0-10% D	uty Cycle	0-10% Duty Cycle		
	Recommend	ed at 15VDC	Recommended at 36VDC		
Pulse Current, (Max. 10msec)	0.904 (MAY)		0.40A (MAX)	0.45A (MAX)	
(Constant current power supply)	0.80A (MAX)	0.38A (MAX)	0.40A (IVIAA)	0.45A (WAX)	
Max. Trigger Pulse Duration, msec	10 msec				
Duty Cycle	0 - 10%				

Ordering Option	
FLFL-Si70X40-R/R24/IR/G/B/W	With resistor to limit the current
TELE ON OX TO TURKE WITH OF BITT	(Use in both constant voltage/ current power supply)
FLFL-Si70X40-R/R24/IR/G/B/W-0	Internal resistor value= zero ohms
FLFL-31/ 0/40-N/N24/IN/G/D/W-U	(only use in constant current power supply)







Connection	R/IR			R24/G/B/W				
Connector Type (Default):	JST	SMR-02V		· m	JST	SMR-03V	My	<b>b</b>
	Pin	Sigr	nal	Cable Color	Pin	Sig	nal	Cable Color
	1	LED	) +	Black/White	1	LEI	) +	Black/White
	2	LEC	) -		2	N.	C.	
			•	Black	3	LE	D -	Black
Cable Length out from lighting:	300 mm							

Additional Information	R/R24/G/B/W/IR			
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	10-100 mm







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