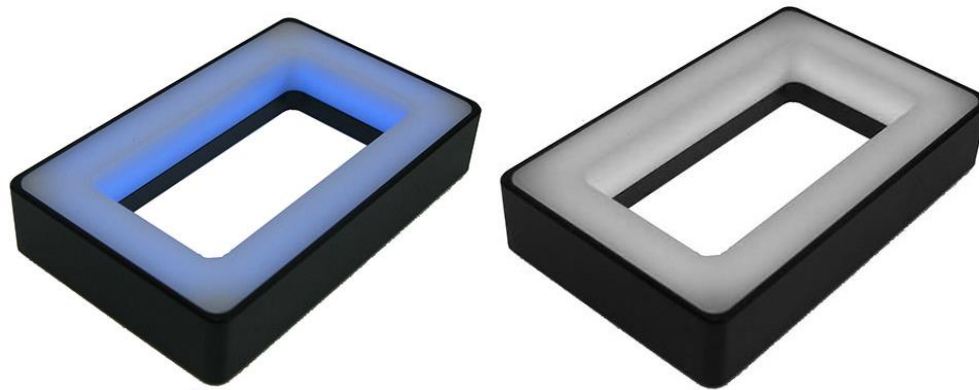


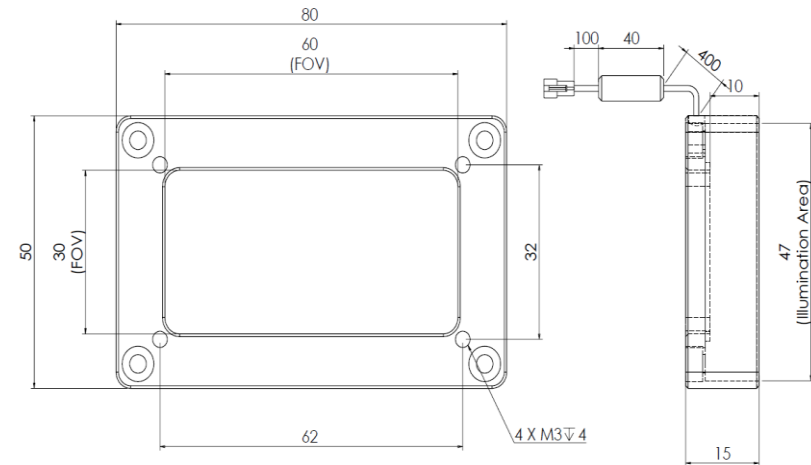
# Low Angle Square Diffused Light

## FFPQ-Si80X50

### Lighting Picture



### Lighting Dimension



Unit in mm

Mechanical Information	
Casing Material	Aluminium + White Delrin
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	80g
Lighting Dimension WxLxH	80.0 x 50.0 x 15 mm
IP Rating	N/A





Optical Information						
Led Color	GREEN (G12)	BLUE (B12)	WHITE (W12)	GREEN	BLUE	WHITE
Wavelength	525nm	470nm	xy=(0.31,0.32)	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	44	44	44	42	42	42
Illumination Area	47 x 77mm					
Led Package	SMD					
Eye Safety (EN 62471:2008)	Exempt Group					

Electrical Information	G12/B12/W12	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)	11.0 V	21.0 V
Continuous Current	0.22A (MAX)	0.12A (MAX)
Power Consumption	2.64 W	2.88 W
Lighting casing temperature, Operating after 60 minutes	31°C	45°C

Strobe Mode Specification	G12/B12/W12/G/B/W	
Max. Lighting Supply Voltage (Constant voltage power supply)	Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 15VDC	
Pulse Current, (Max. 10msec) (Constant current power supply)	0.55A (MAX)	0.30A (MAX)
Max. Trigger Pulse Duration, msec	10 msec	
Duty Cycle	0 - 10%	

Ordering Option	
FFPQ-Si80X50-G12/B12/W12/G/B/W	With resistor to limit the current (Use in both constant voltage/ current power supply)
FFPQ-Si80X50-G12/B12/W12/G/B/W-0	Internal resistor value= zero ohms (only use in constant current power supply)



Connection		G12/B12/W12			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:		500 mm					

Additional Information		G12/B12/W12/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	0-20 mm



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