

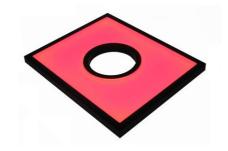


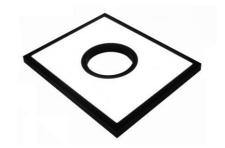
Diffuse Front Light

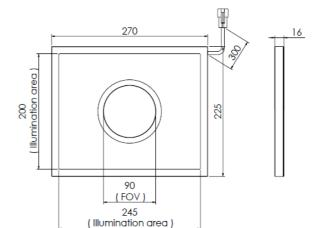
FLFQ-Si245X200-C90

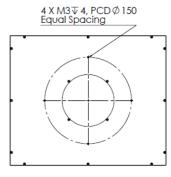
Lighting Picture

Lighting Dimension









Mechanical Information				
Casing Material	Aluminum + Acrylic			
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%			
Weight	2200g			
Lighting Dimension, WxLxH, IØ	200.0 x 245.0 x 16.0 mm, IØ=90.0			
IP Rating	IP 50			

Unit in mm





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)	340	336	336	336	336
Illumination Area	Ø245mm				
Led Package	SMD				
Eye Safety (EN 62471:2008)	Exempt Group				

Electrical Information	IR	R24	G/B/W			
Lighting Supply Voltage	12V ± 2% 24V ± 2%					
(constant voltage mode)	12 V ± 2/0	12 V ± 2 /0				
Supply Ripple Voltage		≤ Vs ± 5%				
Reverse Battery Protection	YES					
Typical Lighting Forward voltage, Vf	9.8 V	22.0 V	21.0 V			
(for zero internal resistor value)	9.6 V	22.0 V	21.0 V			
Continuous Current	1.20A (MAX)	1.36A (MAX)	0.96A (MAX)			
Power Consumption	14.40 W	32.64 W	23.04 W			
Lighting casing temperature,	40°C	54°C	44°C			
Operating after 60 minutes	40°C	54°C				

Strobe Mode Specification	IR	R24	G/B/W		
Max. Lighting Supply Voltage	Pulsing at 12VDC to 24VDC, Pulsing at 24VDC to 48VDC,				
(Constant voltage power supply)	0-10% Duty Cycle	0-10% Duty Cycle			
	Recommended at 15VDC	Recommended at 36VDC			
Pulse Current, (Max. 10msec) (Constant current power supply)	3.00A (MAX) 3.40A (MAX) 2.40A (MAX)				
Max. Trigger Pulse Duration, msec	10 msec				
Duty Cycle		0 - 10%			

Ordering Option	
FLFQ-Si245X200-C90-R24/IR/G/B/W	With resistor to limit the current
FLFQ-31243A200-C90-R24/IR/G/D/W	(Use in both constant voltage/ current power supply)
FLFQ-Si245X200-C90-R24/IR/G/B/W-0	Internal resistor value= zero ohms
FLFQ-3/243/200-C90-R24/IR/G/B/W-0	(only use in constant current power supply)





Connection	IR				R24/G/B/W			
Connector Type (Default):	JST SMR-02V		JST SMR-03V		7			
	Pin	Sigr	nal	Cable Color	Pin	Sig	inal	Cable Color
	1	LED) +	Black/White	1	LEI) +	Black/White
	2	2 LED - Black		2	N.C.			
					3	LE	D -	Black
Cable Length out from lighting:	600 mm							

Additional Information	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	20-200 mm





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