



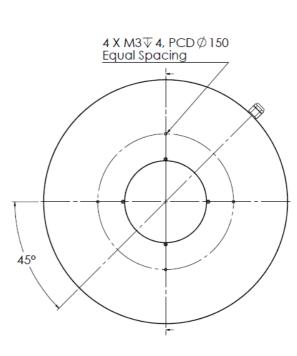
Diffuse Front Light

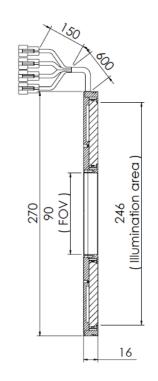
[**`}**] FLFR-Si250-4

Lighting Picture

Lighting Dimension

Mechanical Information		
Casing Material	Aluminum + Acrylic	
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%	
Weight	1340g	
Lighting Dimension, OØ/IØ/H	OØ=270.0 / IØ=90.0 / H=16.0mm	
IP Rating	IP 50	





Unit in mm



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Optical Information				
Led Color	RED (R24)	GREEN (G)	BLUE (B)	WHITE (W)
Wavelength	626nm	525nm	470nm	xy=(0.31,0.32)
Illumination (number of LED)	280	280	280	280
Illumination Area	Ø246mm			
Led Package	SMD			
Eye Safety (EN 62471:2008)	Exempt Group			

Electrical Information	R24	G/B/W	
Lighting Supply Voltage	24\/	+ 29/	
(constant voltage mode)	24V ± 2%		
Supply Ripple Voltage	≤ Vs ± 5%		
Reverse Battery Protection	YES		
Typical Lighting Forward voltage, Vf	22.0 V	21.0 V	
(for zero internal resistor value)	22.0 V		
Continuous Current	1.12A (MAX)	0.80A (MAX)	
Power Consumption	26.88 W	19.20 W	
Lighting casing temperature,	47°C	40°C	
Operating after 60 minutes	47*0		

Strobe Mode Specification	R24	G/B/W	
Max. Lighting Supply Voltage	Pulsing at 24VDC to 48VDC,		
(Constant voltage power supply)	0-10% Duty Cycle		
	Recommended at 36VDC		
Pulse Current, (Max. 10msec)	2.80A (MAX)	2.00A (MAX)	
(Constant current power supply)	2.00A (MAA)	2.007 (IMAX)	
Max. Trigger Pulse Duration, msec	10 msec		
Duty Cycle	0 - 10%		

Ordering Option		
FLFR-Si250-4-R24/G/B/W	With resistor to limit the current	
	(Use in both constant voltage/ current power supply)	
FLFR-Si250-4-R24/G/B/W-0	Internal resistor value= zero ohms	
	(only use in constant current power supply)	







Connection	R24/G/B/W			
Connector Type (Default):	JST SMR-03V			
	Pin	Signal	Cable Color	
	1	LED +	Black/White	
	2	N.C.		· •
	3	LED -	Black	
Cable Length out from lighting:	750mm			

Additional Information	R24/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	20-200 mm







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