



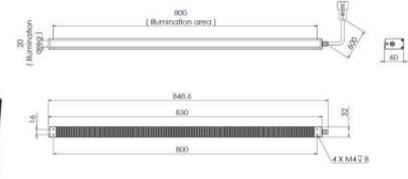
## High Brightness Line Light

## [ >] FHLN-Si800

**Lighting Picture** 

**Lighting Dimension** 





All unit in mm

Mechinical Information	
Casing Material	Aluminium + Acrylic Lens
Storage Temperature Range	Temp 0-35°C, Humidity 20-85%
Weight	2,800g
Lighting Dimension, WxLxH	32.0 x 830 x 60.0mm
IP Rating	IP 50

Optical Information			
Led Color	WHITE (W)		
Wavelength, CIE coordinate	xy=(0.31,0.32)		
Illumination (number of LED)	112		
Illumination Area	800 x20 mm		
Led Package	High Power SMD		
Eye Safety (EN 62471:2008)	RG-2 (Moderate Risk): Caution. Do not stare at exposed lamp in		
	operation. May be harmful to eyes.		

Electrical Information	
Lighting Supply Voltage	22V ± 2%
(constant voltage mode)	
Supply Ripple Voltage	$\leq$ Vs ± 5%
Reverse Battery Protection	YES
Lighting Forward voltage	
(for zero internal resistor value)	21.0 V
Continuous Current	5.6 A (MAX)
Power Consumption	
(constant voltage mode)	123 Watts
Lighting casing temperature,	
Operating after 60 minutes in	70°C
continuous mode	







Strobe Mode Specification				
Max. Lighting Supply Voltage	Pulsing at 22VDC to 40VDC,			
(Constant voltage power supply)	0-10% Duty Cycle			
	Recommended at 36VDC			
Pulse Current, (Max. 10msec)				
(Constant current power supply)	14.0 A (MAX) (PULSE ONLY)			
Constant Current Power Supply				
Voltage Level	21.0V or 22.0V (Max=1.0V higher than the lighting Vf)			
Max. Trigger Pulse Duration, msec	10 msec			
Duty Cycle	0 to 10%			

Over Driving Mode					
Constraints	Major constraint in over current mode is tremendous heat				
	generated on the lighting and results the led in permanent				
	damage.				
Maximum Current,	8.4 A (MAX)				
(Constant current power supply)	Ordering Option (FHLN-Si800-W-0)				
Constant Current Power Supply					
Voltage Level	21.0V or 22.0V (Max=1.0V higher than the lighting Vf)				
Max. Turn On Duration, sec	10 Sec				
Duty Cycle	50%				
Over driving in Constant voltage					
Mode	Ordering Option (FHLN-Si800-W-2)				

Additional Information						
Additional Cooling Method	1. Apply compress air onto the lighting					
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Life span in continuous mode	20,000 hours (drop to 50% intensity) at 25°C					
Life span in strobe light mode	Est. >50,000 hours (drop to 50% intensity) at 25°C					
Intensity Controller Selection	PSA-Series, PSA-Series, LIC-Series					
CE Conformity	YES					
RoHS	YES					
ISO 9001:2008	SG11/	03751				
Ordering Option						
FHLN-Si800-W	With resistor to limit the current					
	(Use in both constant voltage/ current power supply)					
FHLN-Si800-W-0	Internal resistor value= zero ohms					
	(only use in constant current power supply)					
FHLN-Si800-W-2	Driving in 2x current with build in internal resistor					
	(Use in both constant voltage/ current power supply)					
Connection						
Connector Type (Default):	JST SMR-03V					
Cable Length out from lighting:		600 mm				
Pin Configuration:	Pin	Signal	Cable Color			
	1	LED + N.C.	Black/White			
	3	LED -	Black			
	97					
Application						
Optimal Working Distance		20-100mm				
Optimize the lighting Life Span	1. It is recommended to turn ON the lighting only during image capturing or conjunction with camera exposure time. This will					
	enable the lighting to work with longer life span and p overheating and resulting damage to the led.					







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