

Features and Benefits

- Cold forged heatsink core with patented Forging Fit Technology capable of passively cooling up to 100W
- Adjustable angle bracket with a 270° allowable swivel, adaptable to various masts and poles
- Compliant with Mean Well 100W PSU
- Equipped with a 90° beam angle lens with a sealed waterproof design
- Record high total light flux and efficiency of a single light source: Flip Chip Opto Luna 100W COB
- Durable surface finish to protect against corrosion and withstand harsh weathering

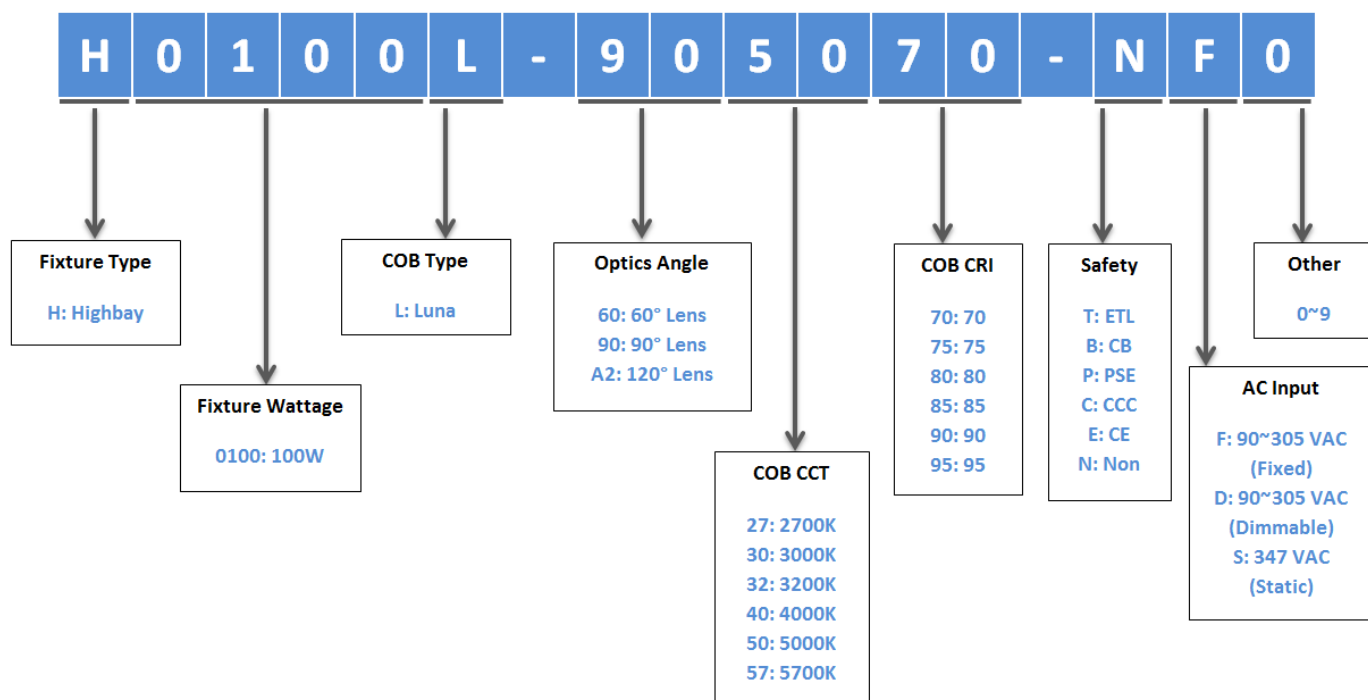


Powered By **FLIP CHIP OPTO**




Product Specifications

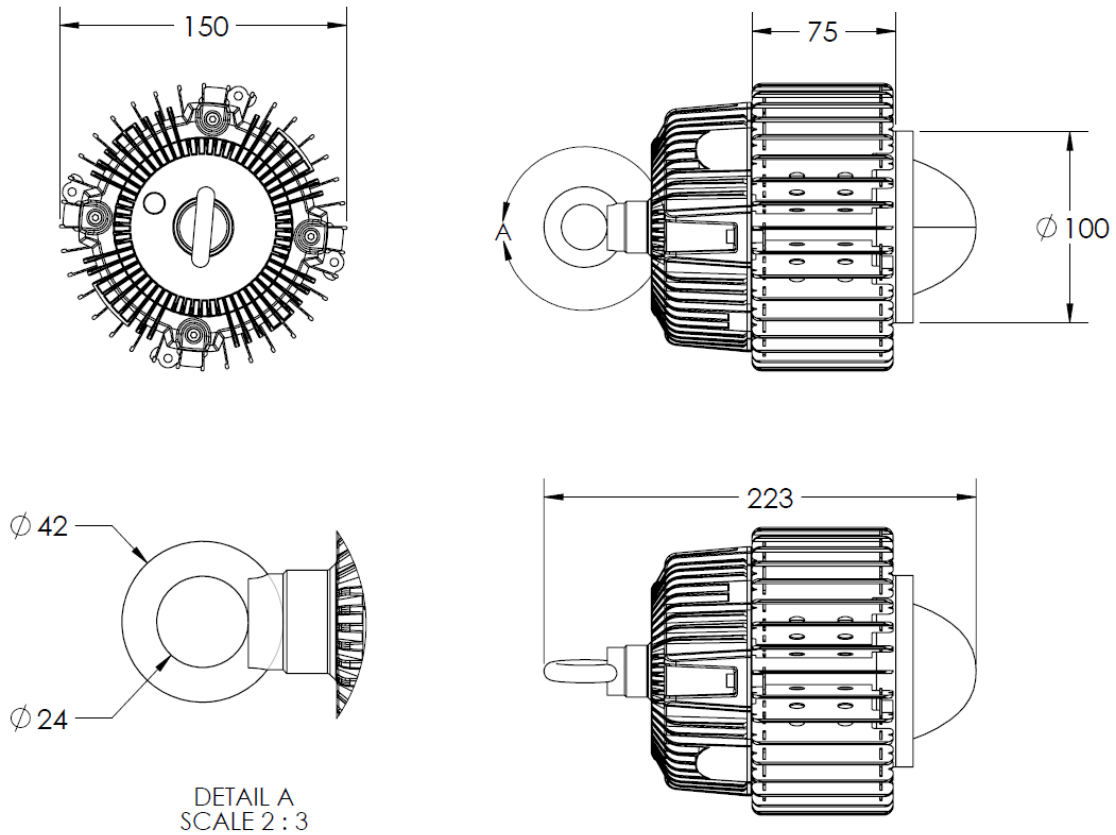
*Default components and safety rating



Product Parameters

Mechanical Specifications:			
Dimensions		150 x 150 x 223 mm (5.9" x 5.9" x 8.8")	
Weight		5.3 lbs. (2.4 kg)	
Material		Heatsink Core	Al 1070
		Fins	Al 1050
		Lens	Tempered Glass
Surface Finish	Part	Process	Color Options
	Heatsink	Electrophoretic Deposition (EPD)	Black
Electrical Specifications:			
Input Voltage Range		90 - 305 VAC	
Drive Current		2.7 A	
Output Voltage		36 VDC	
Power Factor		0.98 @ 115 VAC	
Operation Temperature		-40°C to 60°C (-40°F to 140°F)	
Optical Specifications:			
Light Source		Flip Chip Opto "Luna 100W" COB	
Luminous Flux		11056 lm @ CCT: 5000K, CRI: 70	
		10724 lm @ CCT: 4000K, CRI: 70	
		9729 lm @ CCT: 3000K, CRI: 80	
Light Efficacy		114.4 lm/W @ CCT: 5000K, CRI: 70	
		111 lm/W @ CCT: 4000K, CRI: 70	
		100.7 lm/W @ CCT: 3000K, CRI: 80	
CRI		70 – 95+	
CCT		3,000K / 4,000K / 5,000K	
Light Color		Warm White / Neutral White / Cool White	
Rating Specifications:			
Protection Rating		IP 65 (IP67 for optional PSU model)	
Lifespan		50,000 Hours	
Warranty		5 Years	
Certifications			

Mechanical Dimensions



*All dimensions are in mm

Optional Components



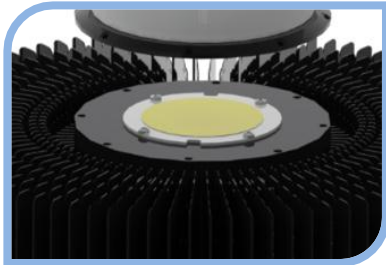
60° Lens and 120° Lens



Alternative Hook Mount
Highbay Bracket Assembly – B0100L

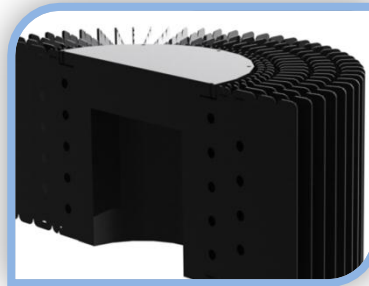
*For additional information regarding optical components, contact Starlite sales

Fixture Breakdown



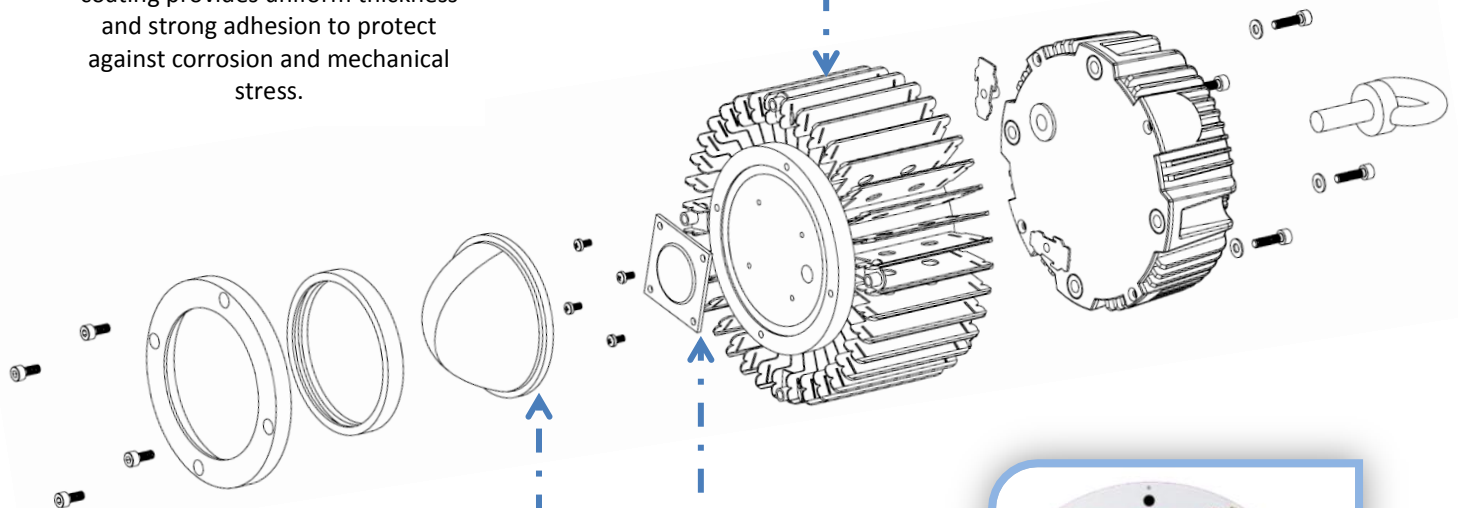
Surface Finish

Consisting of an Electrophoretic Deposition (EPD) finish, the film coating provides uniform thickness and strong adhesion to protect against corrosion and mechanical stress.



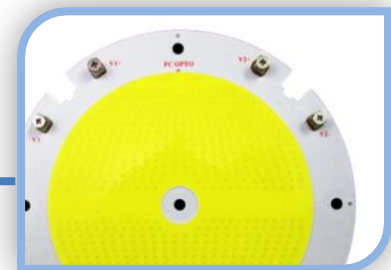
Heatsink Forging Fit Design

Comprised of a pure aluminum column, the unibody cold forged heatsink utilizes patented forging fit technology for fin insertion and allowing maximum thermal heat dissipation.



Optical Lens + Sealed Design

The lens assembly contains a domed glass lens with a high transparency rate for minimal obstruction of the lumen output. The sealing gasket achieves the protection rating of IP65/66 to protect against different environmental

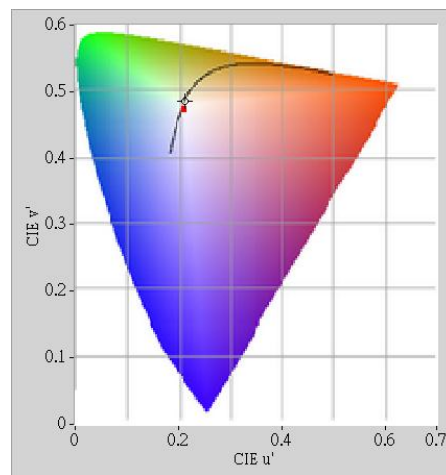
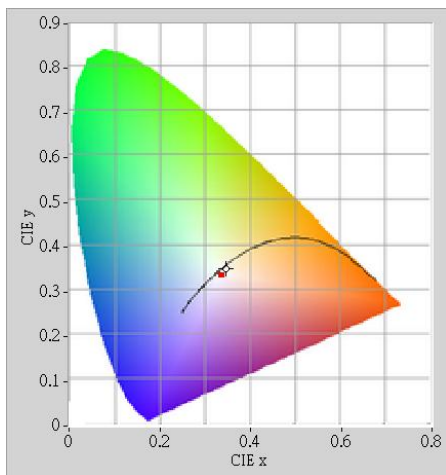
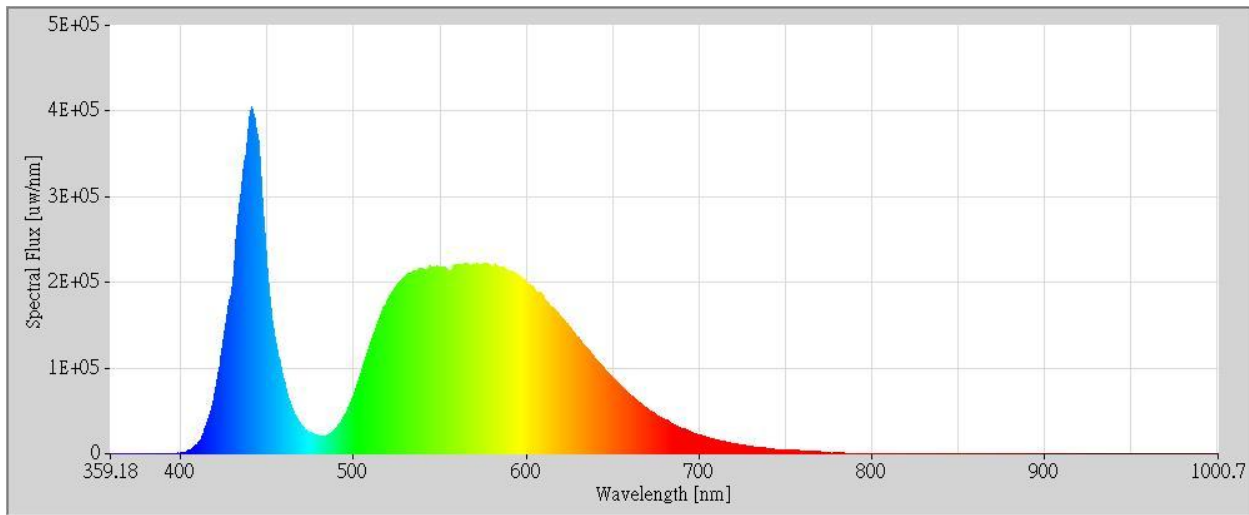


Luna 100W COB

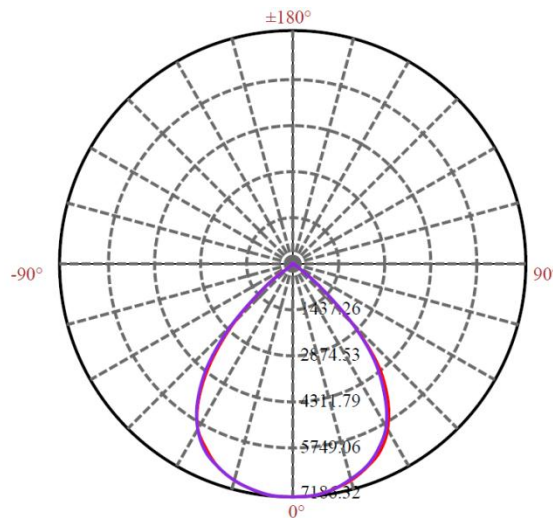
The single light source COB from Flip Chip Opto uses their proprietary low temperature bonding technology achieving a low thermal resistance of 0.18 C°/W. For detailed specs:

<http://www.fcopto.com/luna-series/>

Photometric Performance

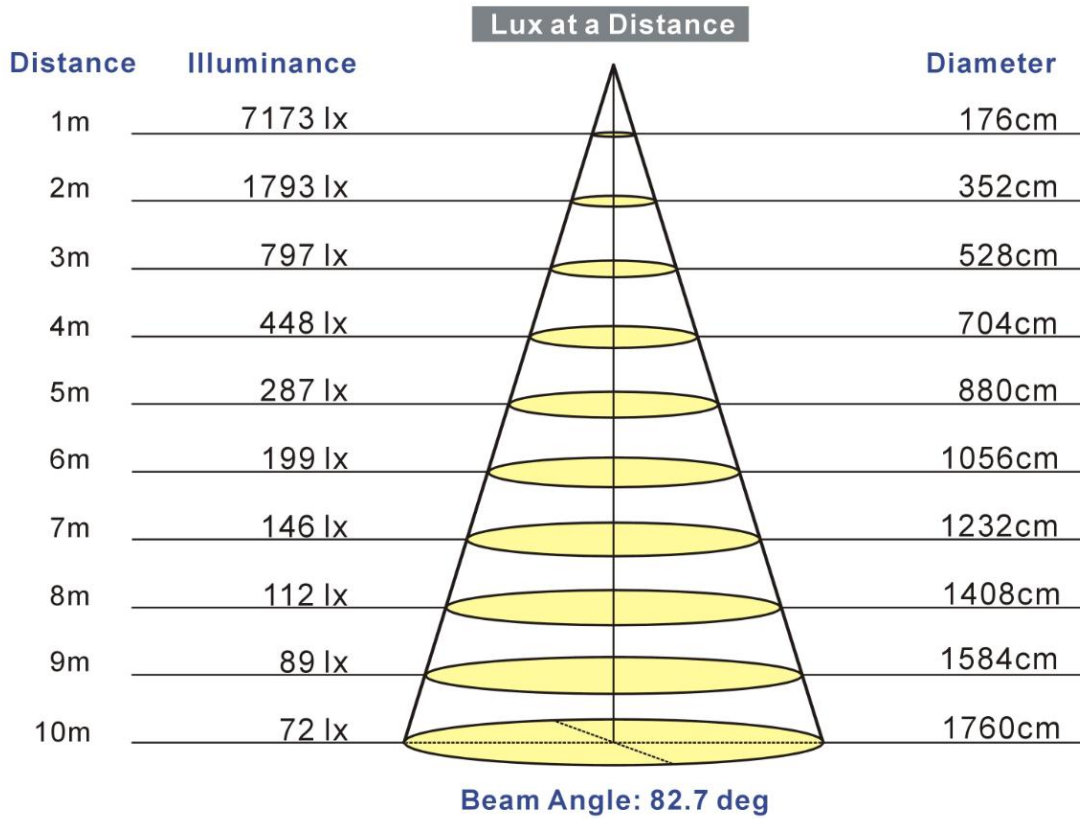


Polar Luminous Intensity Distribution

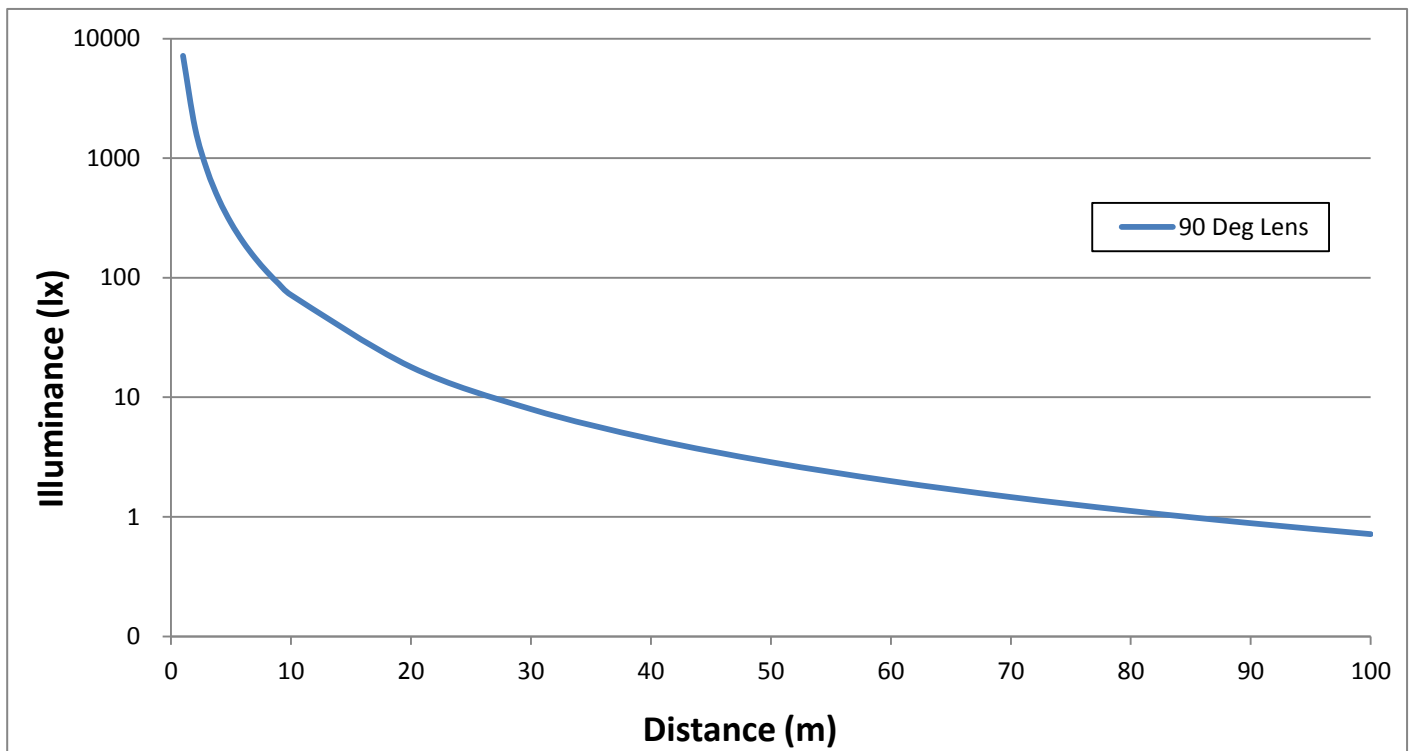


90° Lens
Beam Angle: 82.7°
Field Angle: 104°

Illuminance Cone Diagram

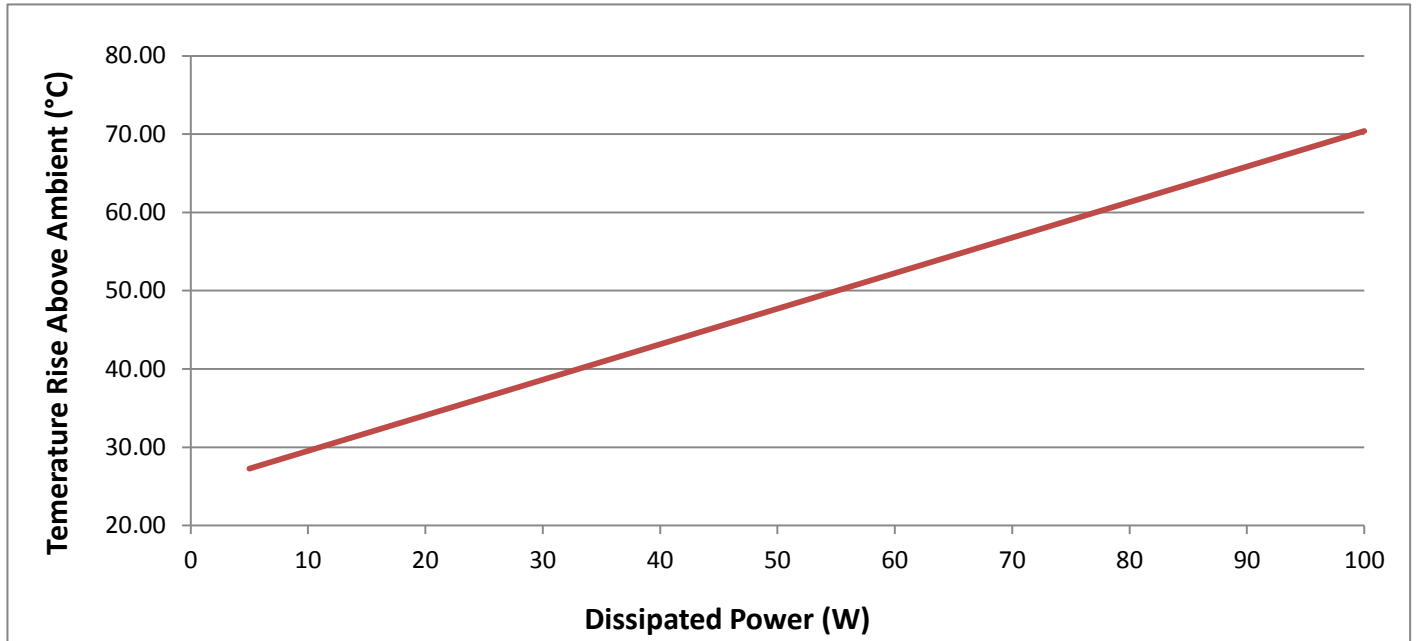


Illuminance vs. Distance



Thermal Performance

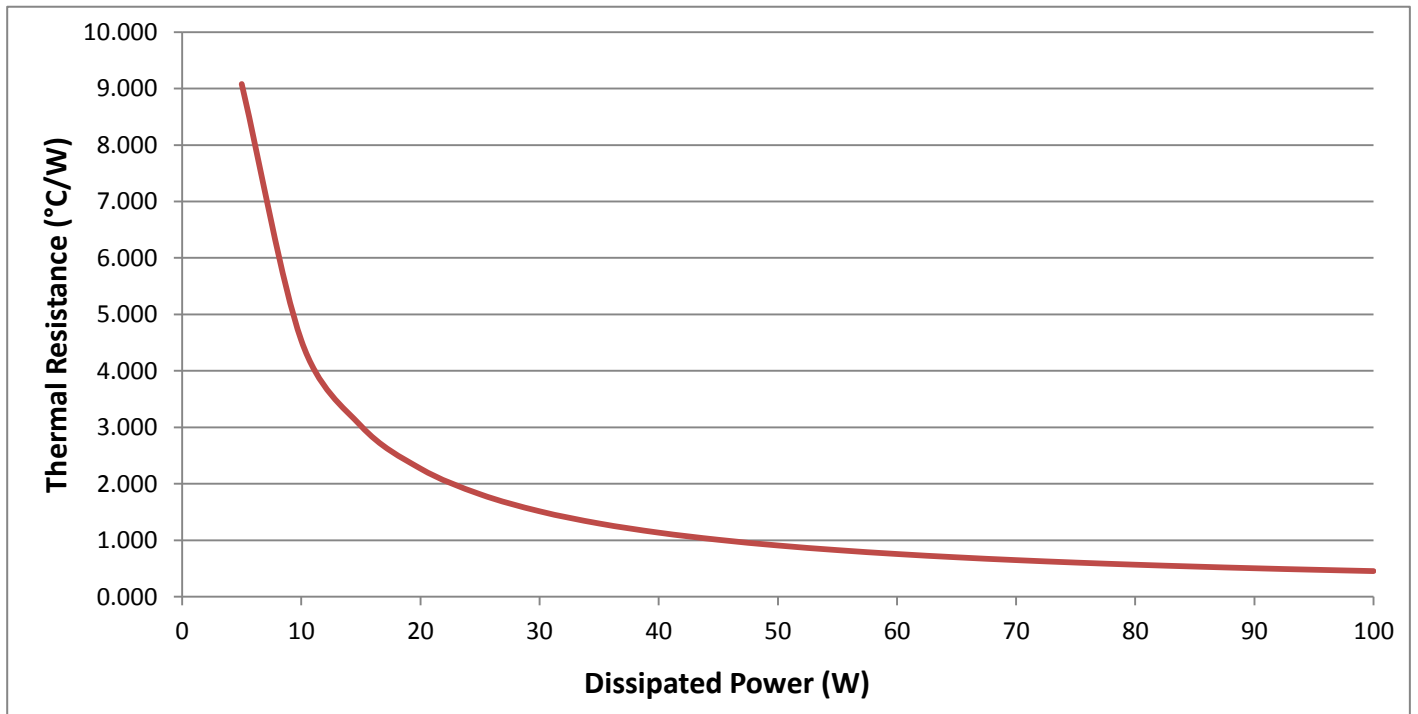
Temp Rise Above Ambient vs. Dissipated Power



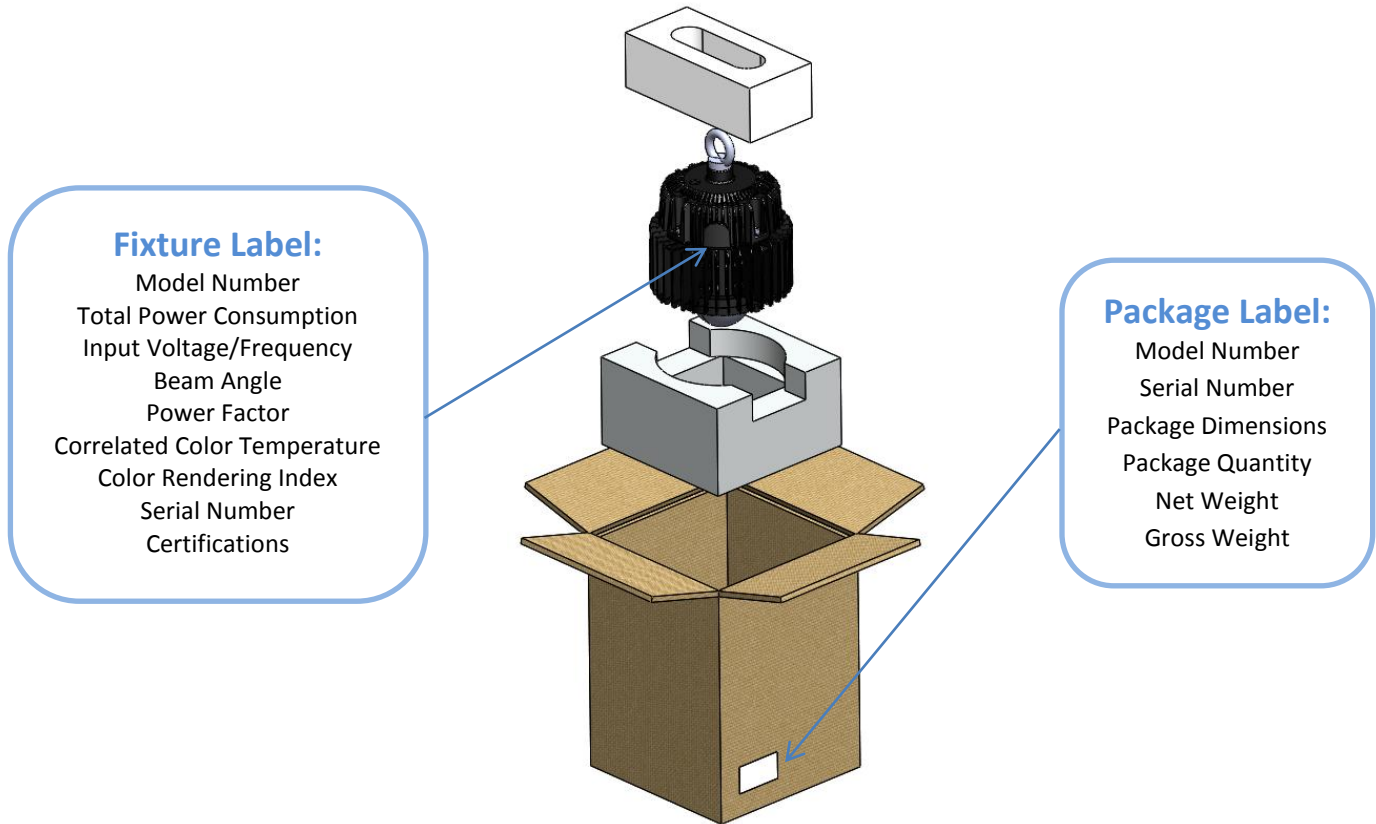
* $T_{amb} = 25\text{ }^{\circ}\text{C}$

* $T_{max} = T_{amb} + \text{Charted Temperature}$

Thermal Resistance vs. Dissipated Power



Packaging and Labeling



Item	B0100L
Net Wt.	2.33 kg (5.13 lbs)
Gross Wt.	2.7 kg (5.94 lbs)
Package Size (mm)	265 x 200 x 200
Package Size (in)	10.4 x 7.9 x 7.9



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