



**FAIRBURNS
GROUP**

Total Electrical Solutions

Sovereign Range:

*Sovereign 48 XL110 AC
Sovereign 48 XL110 DC*

*Sovereign 72 XL110 AC
Sovereign 72 XL110 DC*

Sovereign 72 XL110 – LED High Bay

The **Sovereign 72 XL110** LED lighting solution is a environmentally friendly, energy saving, replacement for traditional Low Bay Lighting Solutions.

This LED Low Bay light is ready for connection to either to a 230Volt 50Hz supply or a 110Volt 60Hz supply.



The **Sovereign 72 XL110** can significantly reduce energy consumption and cut carbon emissions. Ideal for reducing expenditure and helping with environmental issues.

This LED light is suitable for illuminating warehouses, cold stores, stockrooms, workshops, tunnels, railway stations, and other industrial applications that require widely distributed, glare free light, and reliable low maintenance lighting.

Note: All LEDs are encased in a compound that will give them protection from any ingress of liquids or solids and all other electronic components are enclosed in an IP66 rated assembly.

Key Benefits of LED Lighting:

- Long life span > 50,000hrs.
- Low Power Consumption.
- Low maintenance costs.
- No Bulb replacements.
- More power to light than power to heat.
- Low carbon emissions.
- Excellent colour rendition.
- Fixtures contain no mercury or lead.
- Reduced Light pollution.
- Higher Efficacy = More lumens per watt.

Added Benefits For Cold Stores:

- LED Lighting does not diminish in cold temperatures.
- LED's strike instantly in the cold allowing lighting to be turned off in periods of inactivity.
- LED's use up to 75% less energy reducing refrigeration load.
- LED's create a white light similar to daylight allowing employees to locate goods efficiently.
- Much Safer – No glass to break, no white-hot filament, no noxious fumes.
- LED performance inherently increases as operating temperatures drop.

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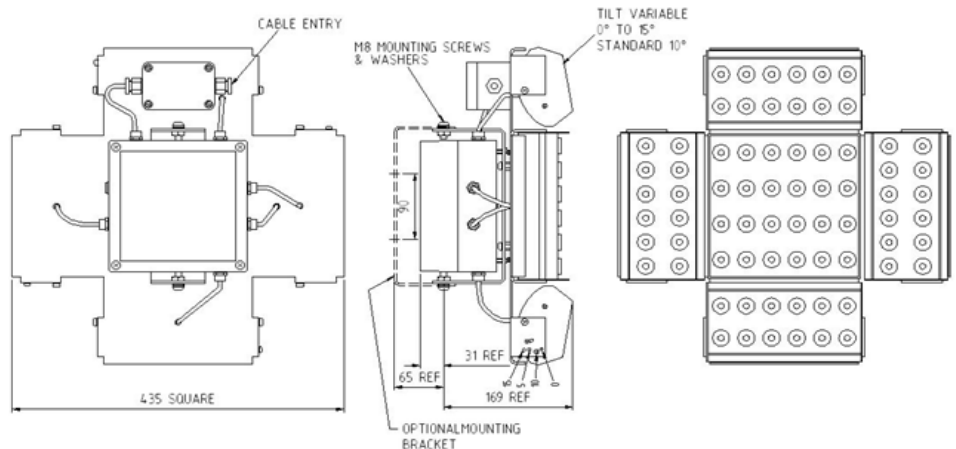
Specifications: Sovereign 72 XL110 - LED Flood Light

	AC	DC
Product Code	S72-A001-F1/ FE	S72-D001-C3 / FE
Power Consumption LED's	82.08 Watts	
Power Consumption Driver	5.92 Watts	N/A
Total Power Consumption	87.94 Watts	82.08 Watts
Input Voltage	90 – 264Vac	12 VDC
Input Frequency	47 – 63Hz	N/A
Light Source	1.14 W High Power LED	
LED QTY	72	
Total LED Output	7920 lm	
Efficiency (Typ.)	89%	85%
LED Colour	Cool White	
Colour Temp (K)	5400 - 6300 degrees K (Standard)	
CRI	Ra>70	
LED Lifespan	50,000 > 80,000 Hours	
Operating Temperature	-30 degrees C to + 50 degrees C	
Working Humidity	0 ~ 95%	
Turn on time	100ns	
Product Size (mm)	435mm x 435mm x 178mm	
Unit colour	Silver	
Net Weight	8.5Kg	
Mounting	Chain Mounted Bracket (Standard) Pole and Wall Mounted versions available.	
Protection Rate	IP66 (Light Engine & Power Supply)	
Certification	RoHS, CE	
Warranty	3 Years	

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Above: CAD diagram for Sovereign 72 XL110 – LED Flood Light



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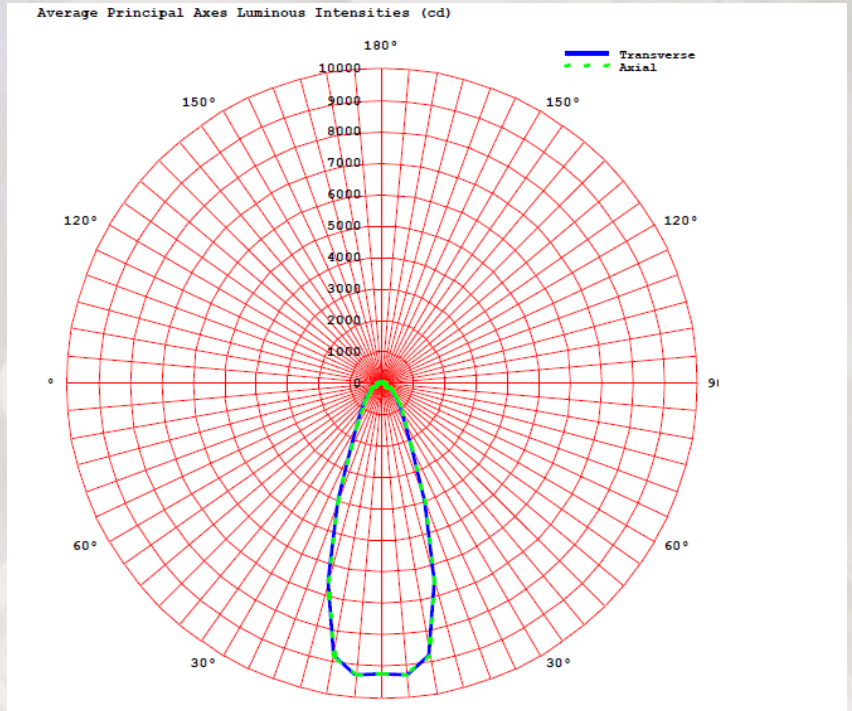
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Sovereign 72 XL110 – LED High Bay

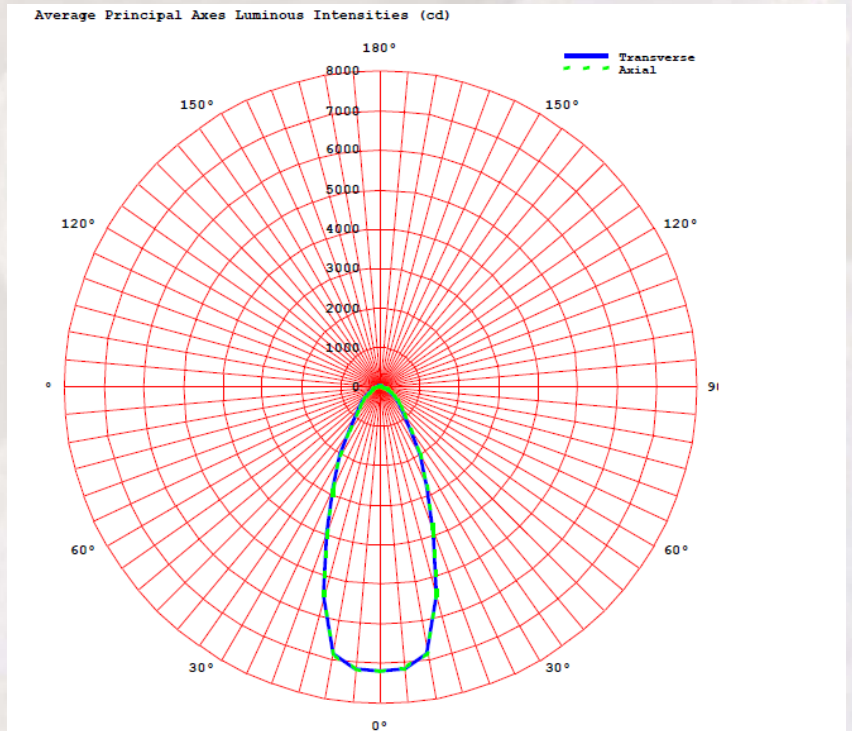
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Above: Average Principal Axes Luminous Intensities (cd) - Sovereign 72XL110 – 5 DEGREE MODULE TILT



Above: Average Principal Axes Luminous Intensities (cd) - Sovereign 72XL110 – 15 DEGREE MODULE TILT

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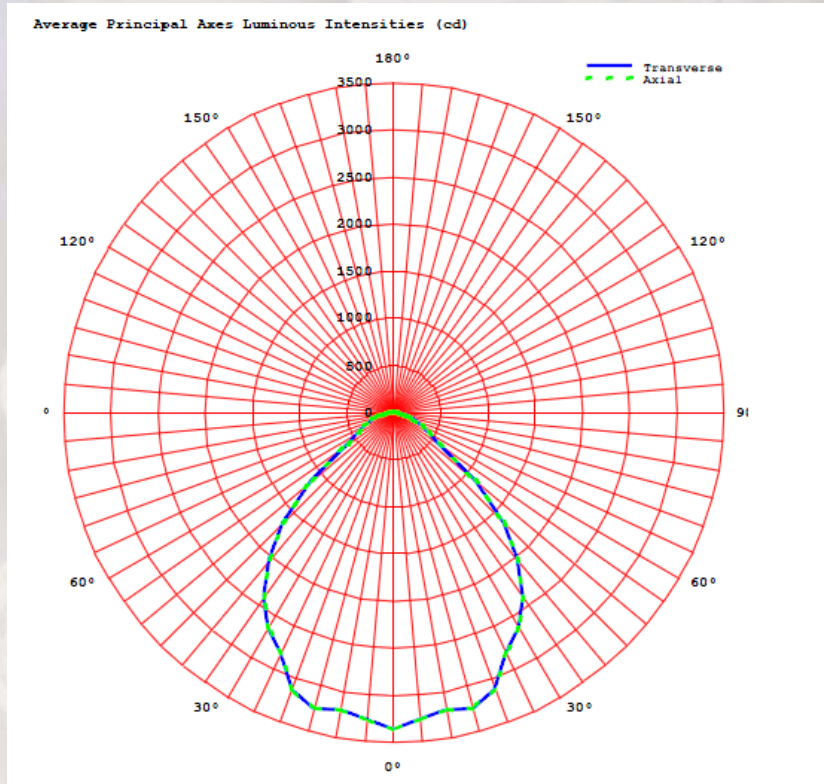
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Above: Average Principal Axes Luminous Intensities (cd) - Sovereign 72XL110 – 30 DEGREE MODULE TILT

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