

GUARDIAN LED High Bay 100W Light

Energy Efficient LED Lighting for Cold stores and Warehouses

More than sixty percent of the energy costs of powering the lighting in frozen food applications can be saved every year by using *GUARDIAN* products to replace existing high bay lighting, fluorescent tubes and ballasts.

Maintenance costs are virtually eliminated since the life expectancy of LED lighting is more than three times greater than the fluorescent tubes they replace.

These products can be easily retrofitted and provide:-

- **Reliable startup of LED lighting** in freezer rooms after being switched off in low temperatures.
- **Annual Energy Savings of more than 60%** of freezer lighting costs by :-
 - Improved efficiency when lights are on.
 - Switching off lights nightly or when not in use.
 - Reducing the refrigeration cooling load required.
- **Energy & Maintenance payback in < 3 years.**
- **Life expectancy >10 years** on super bright LEDs
- **Utilization of existing fittings** powered directly from the mains saves retrofit labour costs.

Guardian LED Lighting is environmentally friendly, lead free, contains no other harmful elements and provides a cool, modern look for the illumination of frozen food products in retail and cold stores.

Further energy savings can be made in frozen food cold rooms by using a local PIR proximity detector to switch the 230vac supply to all LED lights on and off only when required.



MT0750 PIR360-F



Advanced LED chip design, smart control and compact packaging of Guardian LED lighting sets a new standard in LED brightness, energy efficiency and ease of installation.

The *GUARDIAN LED High Bay Light* incorporates super bright LEDs, power conversion and smart control electronics for soft start and constant power, all sealed inside an IP40 enclosure with appropriate mains connection.

This integral lighting design eliminates any requirement for external ballasts or power supply unit wiring and simplifies installation and any subsequent maintenance replacement.

After being switched OFF overnight or when not in use, all LED lights reliably switch ON at low temperatures each morning. This automatic daily lighting control dramatically reduces the cost and carbon footprint of powering the lighting in frozen food Chillers or Cold rooms.



LED High Bay Warehouse

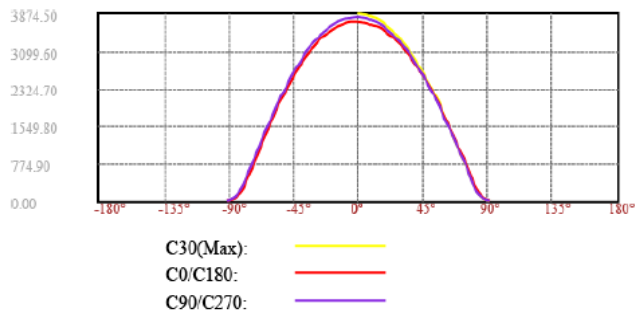
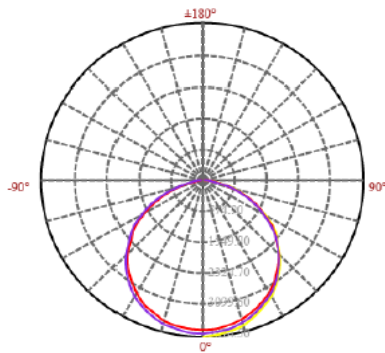


Detail Specification

Dimension: 532mm * 382mm	Power wattage: 100W
Input Voltage: AC90-240V	Luminous flux: 10000 lm
LED Efficiency: 104.51 lm/w	CRI > 80
Power Factor: > 0.97	LED Type: SAMSUNG
Beam Angle: 120°	Color Temperature: 2500-7000K
Operating Temperature: (-30°C to 50°C)	
Net Weight: kgs	Gross Weight: kgs

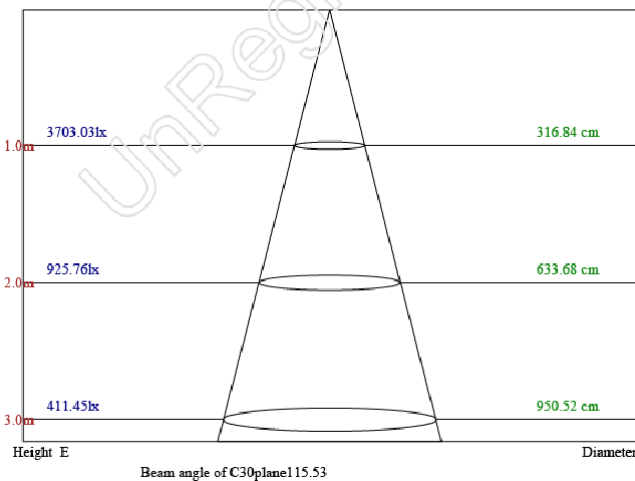
DATA SHEET FROM IES TEST REPORT

Light Distribution Curve [Unit: cd]



Height	Center Beam LUX	Beam Width	
		V	H
2m	925.76 LUX	6.0m	6.0m
4m	231.44 LUX	12.0m	12.0m
6m	102.86 LUX	18.1m	18.0m
8m	57.86 LUX	24.1m	24.0m
10m	37.03 LUX	30.1m	30.0m
12m	25.72 LUX	36.1m	36.0m

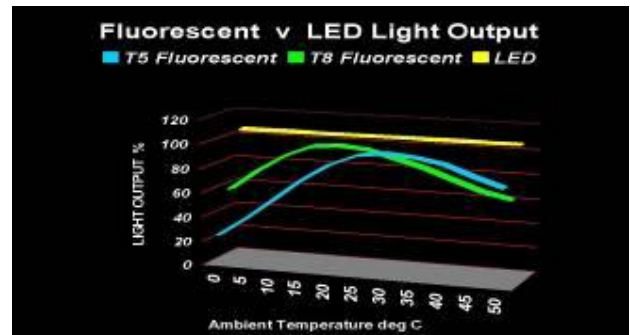
Vert. Spread: 112.9 Horiz. Spread: 112.7



Maintained LED lighting can be done by fitting addition 5W LED Emergency Bulkheads which are permanently on in maintained mode near door entries.



LED A 5W NM/M3/E



APPROVALS
EN 55015 : 2006
EN 62031 : 2008

