

# SANITATION GRADE RUGGEDIZED LUMINAIRE

## DESCRIPTION

The new EFG Series FOOD SAFE pendant LED luminaire is engineered to address the requirements of the food processing industry NSF Splash & Non-Food zones in permanent locations and comply with NSF/ANSI 2 & FDA /USDA guidelines. Featuring a highly corrosion resistant and non toxic coated Aluminium exterior.

The EFG Series luminaire housing benefits from a 383 series Aluminum alloy cast with exclusive use of the CTS ( Cast Trim Ship ) production process. The housing is further precision machined on a 5 axis CNC mill. This provides unmatched tensile strength, impact tolerance and excellent resistance to industrial airborne atmospheric contaminants such as grease, oils and corrosive cleaning agents. The EFG series LED luminaire form factor has roots in fluid dynamics and integrates a Venturi effect. The resulting unique shape presents an exceptional thermal signature and a smooth and undisturbed surface allowing it to remain clean and effectively shedding particulates.

The EFG Series LED luminaire provides an ingress protection rating of IP66 including usage in environments where high levels of humidity are present and is sealed against the infiltration of airborne bacteria and feature very low maintenance requirements. An IP69K option is available which is pressure wash down capable. The EFG Series LED luminaire has no exposed hardware or glass components, meeting NSF C-2 requirements.

The EFG series luminaire is delivered with an exceptional high quality 6 step e-coating process. Options for severe duty non food environments include specialized surface treatments such as superhydrophobic ( nano repellency ) , PAXCON™ polyurethane/ polyurea ( impact mitigation ) as well as ceramic ( antifouling / self cleaning ) .

Engineered with added mechanical strength, the main structure lenses are manufactured with an extruded Polycarbonate with practically indestructible properties, all lens components are treated to protect against material degradation under UV content exposure. The EFG series is provided with high temperature silicone seals and is available as an option with NBR, SBR, EPDM, Viton/ FPM® or Neoprene seals. The EFG series employs performance leading digital drivers, additional outboard Surge Protection Devices ( SPD ) and dimming as an option.

The EFG series LED luminaires are engineered for applications requiring mid and high power illumination of up to 24,000 lumens with 3 beam distributions. The EFG series integrate high performance Nichia™ 757 LED on thin film MCPCB with proprietary reflective coatings. The EFG provides crisp illumination with superior fixture efficacy and advanced thermal pathways for a wide operating temperature range.



## APPLICATIONS

- Food Preparation & Production
- Beverage Processing & Production
- Food Preservation Stations
- Warehousing & Storage
- Commercial Kitchens
- Spiral Freezers

## EFG SERIES SPECIFICATIONS

FIXTURE SERIES	POWER	LED TYPE	CCT	DISTRIBUTION	EXIT LUMEN RANGE	OPERATING VOLTAGE	IP RATING	DIMENSIONS
LR-EFG-60W-XX *	60W	Nichia™ 757	4500K ( 5 500-6500K avail )	60° / 90° / 120°	8,400-9,600 lm	AC90-277V 50/60Hz	IP66-IP69K	Ø250mm X H310mm
LR-EFG-100W-XX	100W	Nichia™ 757	4500K ( 5 500-6500K avail )	60° / 90° / 120°	14,000-16,000 lm	AC90-277V 50/60Hz AC180-508V 50/60Hz	IP66-IP69K	Ø250mm X H310mm
LR-EFG-150W-XX	150W	Nichia™ 757	4500K ( 5 500-6500K avail )	60° / 90° / 120°	21,000-24,000 lm	AC90-277V 50/60Hz	IP66-IP69K	Ø250mm X H310mm

\*Optional power configuration

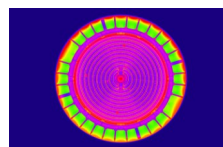


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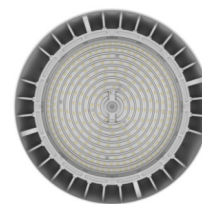
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## FEATURES

HIGH PERFORMANCE  
757 LED ENGINESA383 CTS CAST  
& MACHINED HOUSINGLOW PROFILE  
DOME LENS OPTIONEXCEPTIONAL THERMAL  
PERFORMANCEHIGH EFFICIENCY  
DIGITAL DRIVERS

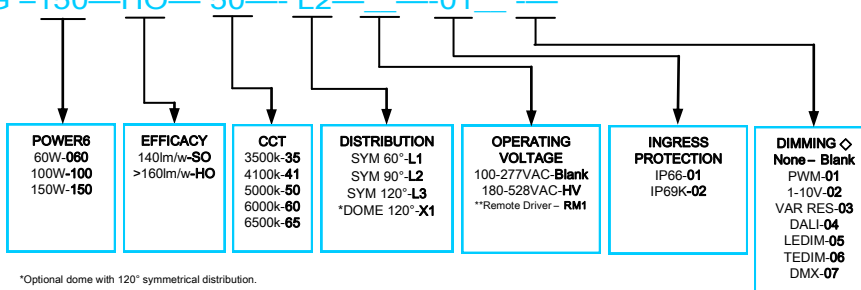
## PRODUCT VIEWS



## ORDERING INFO: LR-EFG-150-HO-50-L2-01

## ELECTRICAL SPECIFICATIONS

- Power Input: AC100-277V
- AC180-528V (Option 100W)
- Power Factor:  $\geq 97$
- THD:  $\leq 13\%$  @ full Load
- Standard input cord 1M/3.3'
- Fixture surface treatment, seal type and finish color to be specified



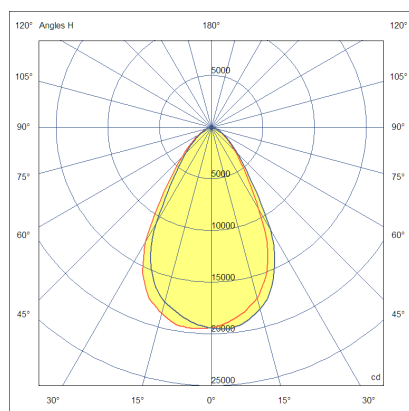
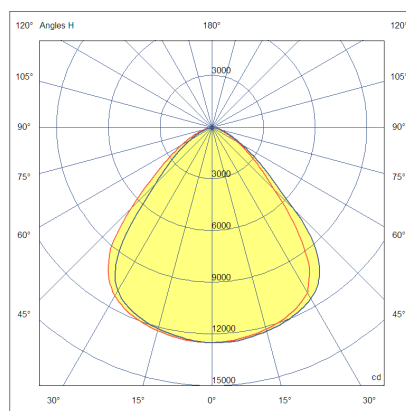
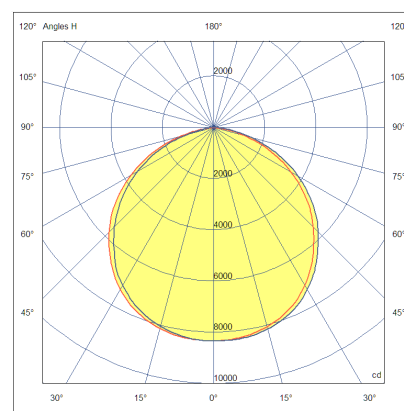
**DIM Control:** 0-5V, 0-10V, 1-10V, 0-20ma, 4-20ma, RS485, RS-232, PWM, RES, LEDIM, TEDIM, DMX512, DMX512/RDM, ArtNET, DALI, IoT, Zigbee, Bluetooth, LoRA, Custom Controller Interface (CCI).

◇ LED RAYS offers the following dimming options (Please note not all DIM methods apply to a particular product)

\*Optional dome with 120° symmetrical distribution.

\*\* Remote driver configuration enclosure type and interconnections are customizable to suit environment.

## PHOTOMETRIC DISTRIBUTION

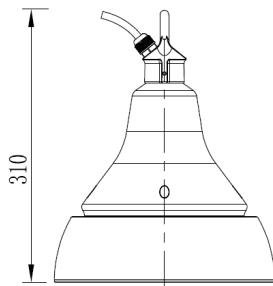
150W / L1  
HO VERSION150W / L2  
HO VERSION150W / X1  
HO VERSION



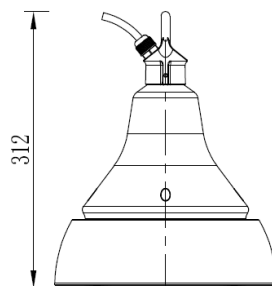
DIMENSIONS mm ( ± 1.1mm ) / WEIGHTS ( ± 0.2kg/± 0.44lbs )

POWER	DIMENSIONS	WEIGHT
60W	Ø250mm X H310-340mm	2.45kg / 5.39lb
100W	Ø250mm X H310-340mm	2.50kg / 5.50lb
150W	Ø250mm X H310-340mm	2.55kg / 5.61lb

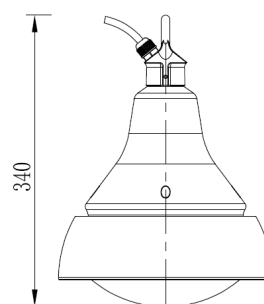
L1 (60°) &amp; L2 (90°)



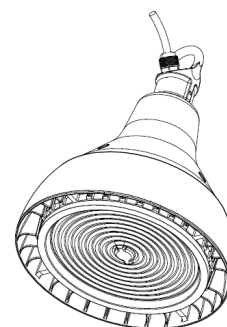
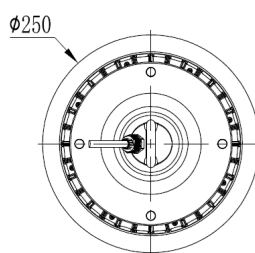
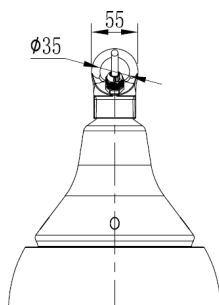
L3 (120°)



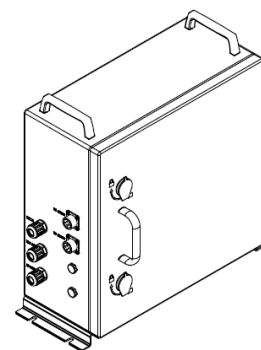
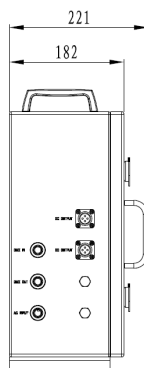
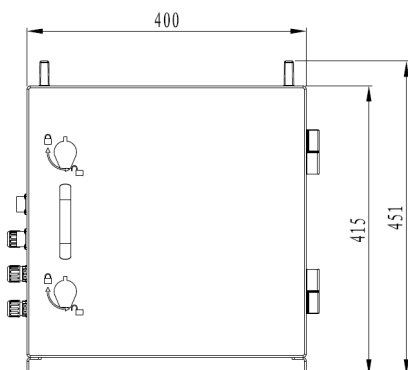
X1 DOME (120°)



## HOOK MOUNTING



## AL5053 REMOTE DRIVER 600W FOR 4 X 150W EFG (Typical)



The specifications in this brochure are representative and must not be interpreted as a guarantee of individual product performance and/or characteristics.  
LED RAYS Inc. has a policy of continuous advancements & development specifications may change without notice. Please contact your agent for updates.

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