

# SEVERE DUTY MODULAR LUMINAIRE

## HPFM v6 SERIES

### DESCRIPTION

The HPFM v6 Series Severe Duty Luminaires are engineered with the same DNA as the previously successful HPFM generations. Based on a modular platform, the HPFM v6 series provides superior luminous efficacy, superb thermal efficiency and industry leading reliability. HPFM v6 series luminaires are engineered for applications requiring medium and high power illumination in Roadway, Facade, Transportation, Natatoriums and other exposed areas requiring top performance in a ruggedized package.

The HPFM v6 mainframe and thermal pathways are manufactured using AL6063 T6 extruded Aviation Aluminium, machined on a 7 axis CNC to precise tolerances and hard anodized treated. Joining components are A383 Aluminium and all hardware is SS316 stainless steel. Trunnion supports are laser cut and e-coated with a proprietary process proven for its long term durability.

The HPFM v6 features a rear mounted double sealed locking enclosure manufactured with a AL5052 Aluminium for ease of wiring and for driver access. The combination of superior materials and processes provides for outstanding corrosion resistance, exceptional reliability and top level performance in severe duty and harsh applications, additionally these components are fully recyclable.

Engineered with improved mechanical strength, the main structure optical fascia is manufactured with an extruded Polycarbonate to extreme tolerances with practically indestructible properties. The Polycarbonate components are treated to protect against material degradation under UV content exposure, and allow for corrosion/oxidization mitigation. Various symmetrical and asymmetrical distribution patterns provides comprehensive coverage with exceptional uniformity and controlled illumination.

The HPFM v6 series LED modules integrates high performance Nichia™ 757 LED chips on VFFM film MCPCB with proprietary reflective coatings. Modules are interconnected with Deutsch™ type IP68 captive connectors to assure inter wiring integrity. The modular design provides flexibility, added rigidity and improved serviceability and upgrade possibilities. Complete environmental protection is achieved using superior silicone or EPDM seals to protect against particulate intrusion and feature zero maintenance cycle requirements.

Power is provided via digital drivers with 4 way protection and includes additional 20kv surge protection devices. HPFM V6 series are available in 6 power levels, with 4 distribution patterns, with 3D printed custom optics and with power redundancy as options. The HPFM v6 series utilizes only the best quality materials and assembly methods and are engineered to perform exceptionally well in severe duty conditions.



### APPLICATIONS

- Natatoriums
- Test Cells / Chambers
- Transportation / Rail / Bus
- Marine / Corrosive Locations
- Tunnels / Underpasses / Roadways
- Mining Service Bays
- Bridge & Spans

### HPFM v6 SERIES SPECIFICATIONS

FIXTURE SERIES	POWER	LED TYPE	CCT	DISTRIBUTION	LUMINAIRE EXIT LUMEN *	OPERATING VOLTAGE	IP RATING	DIMENSIONS
LR-HPFMv6-080W-XX	60W	NICHIA™ 757 SMD	4500K ( 3500-6500K avail )	30°/ 20° x 60° 60°x 90° / 120°	8400lm	AC90-277V AC180-508V	IP66	L376 x H225 x D190.5mm
LR-HPFMv6-100W-XX	100W	NICHIA™ 757 SMD	4500K ( 3500-6500K avail )	30°/ 20° x 60° 60°x 90° / 120°	14000lm	AC90-277V AC180-508V	IP66	L376 x H249 x D190.5mm
LR-HPFMv6-150W-XX	150W	NICHIA™ 757 SMD	4500K ( 3500-6500K avail )	30°/ 20° x 60° 60°x 90° / 120°	21000lm	AC90-277V AC180-508V	IP66	L376 x H288 x D192mm
LR-HPFMv6-200W-XX	200W	NICHIA™ 757 SMD	4500K ( 3500-6500K avail )	30°/ 20° x 60° 60°x 90° / 120°	28000lm	AC90-277V AC180-508V	IP66	L376 x H327 x D192mm
LR-HPFMv6-300W-XX	300W	NICHIA™ 757 SMD	4500K ( 3500-6500K avail )	30°/ 20° x 60° 60°x 90° / 120°	42000lm	AC90-277V AC180-508V	IP66	L376 x H405 x D224mm
LR-HPFMv6-400W-XX	400W	NICHIA™ 757 SMD	4500K ( 3500-6500K avail )	30°/ 20° x 60° 60°x 90° / 120°	56000lm	AC90-277V AC180-508V	IP66	L376 x H518 x D224mm

\* Typical For HO Configuration

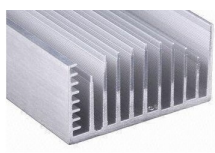
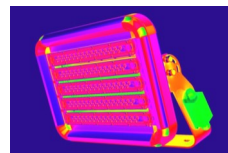


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## FEATURES

HIGH PERFORMANCE  
NICHIA™ SMD LEDAL6063 T6 HIGH PURITY  
ALUMINIUMEXTRUDED  
POLYCARBONATESUPERIOR THERMAL  
PERFORMANCEHIGH EFFICIENCY  
DRIVERS

## PRODUCT VIEWS



100W



150W



200W



300W



400W

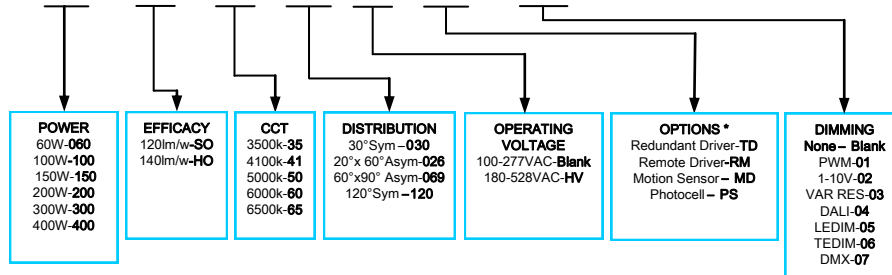


Driver Enclosure

## ORDERING INFO: LR-HPFMv6-150—HO—50—069—

## ELECTRICAL SPECIFICATIONS

1. Power Input: AC100-277V
2. AC180-528V (Option)
3. Power Factor: ≥94
4. THD: ≤15% @ full Load
5. 1M Cable entry standard

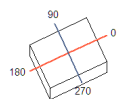


**DIM Control:** 0-5V, 0-10V, 1-10V, 0-20ma, 4-20ma, RS485, RS-232, PWM, RES, LEDIM, TEDIM, DMX512, DMX512/RDM, DALI, Custom

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

## PHOTOMETRIC DISTRIBUTION

0.9ft x 1.2ft

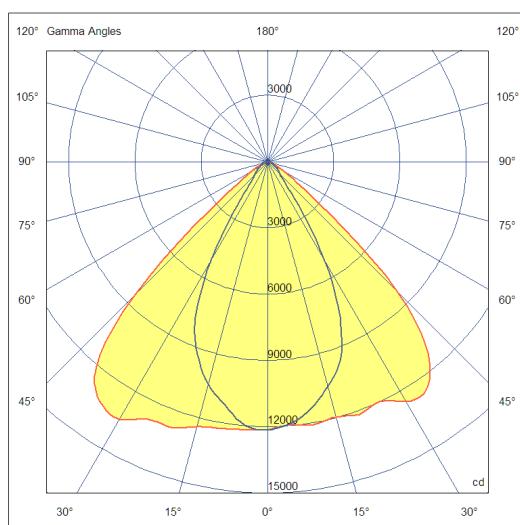


C Halfplanes

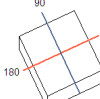
180.0 — 0.0

270.0 — 90.0

Flux 19500.00 lm  
Maximum 13471.20 cd  
Position C=170.00 G=35.00  
Efficiency: 99.98%  
Date: 03-09-2019  
Asymmetrical



1.3ft x 1.2ft

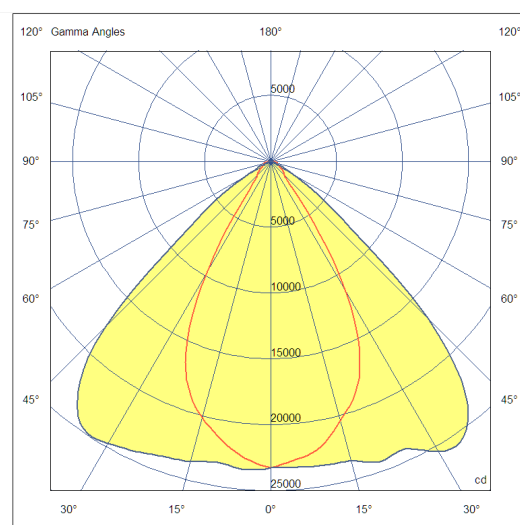


C Halfplanes

180.0 — 0.0

270.0 — 90.0

Flux 39000.00 lm  
Maximum 25496.10 cd  
Position C=90.00 G=35.00  
Efficiency: 99.25%  
Date: 05-09-2019  
Asymmetrical

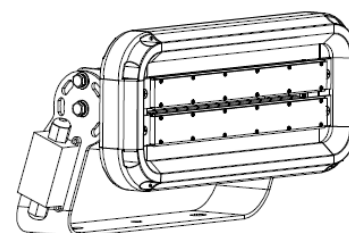
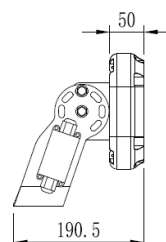
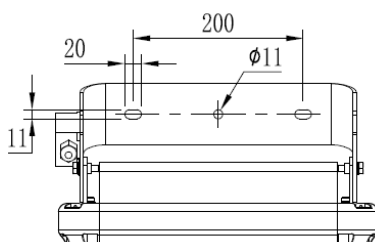
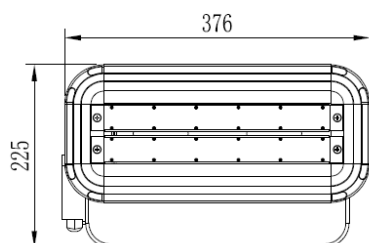




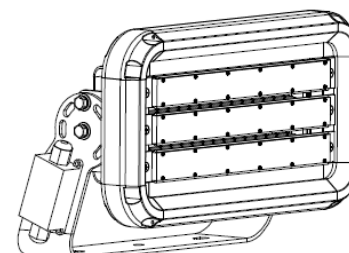
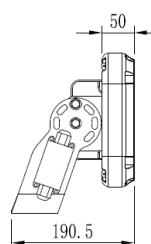
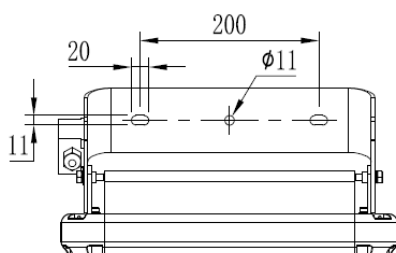
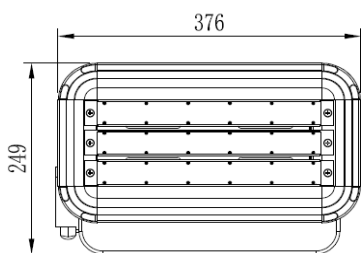
DIMENSIONS mm ( ± 1.1mm ) / WEIGHTS ( ± 0.3kg/± 0.66lbs )

POWER	DIMENSIONS	WEIGHT
60W	L376 x H225 x D190.5mm	2.50kg / 5.50lb
100W	L376 x H249 x D190.5mm	3.50kg / 7.70lb
150W	L376 x H288 x D192mm	4.50kg / 9.90lb
200W	L376 x H327 x D192mm	5.50kg / 12.10lb
300W	L376 x H405 x D224mm	9.00-kg / 19.80 lb
400W	L376 x H518 x D224mm	11.00-kg / 24.20 lb

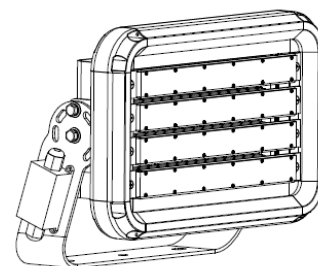
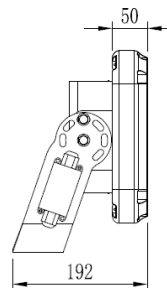
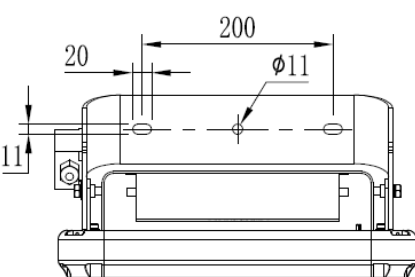
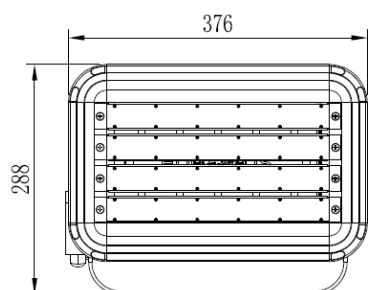
60W



100W

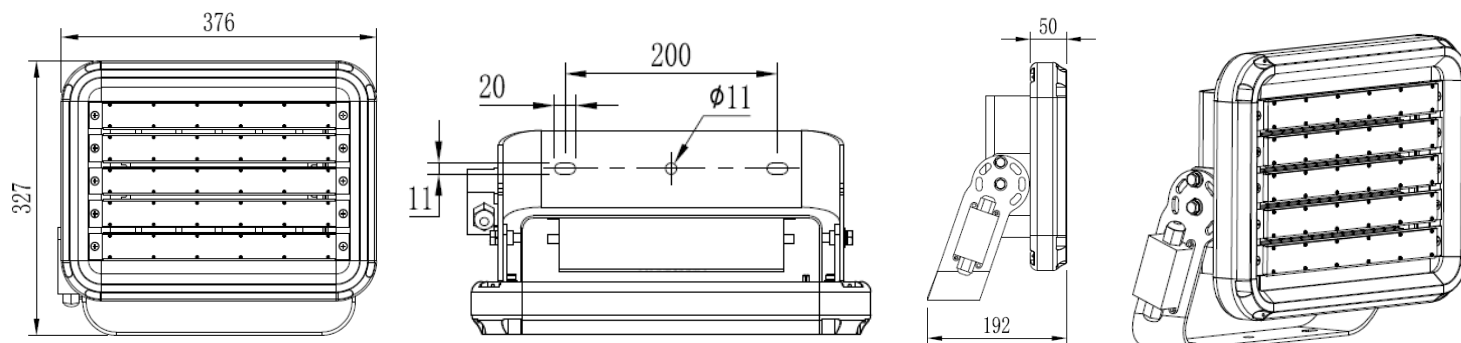


100W

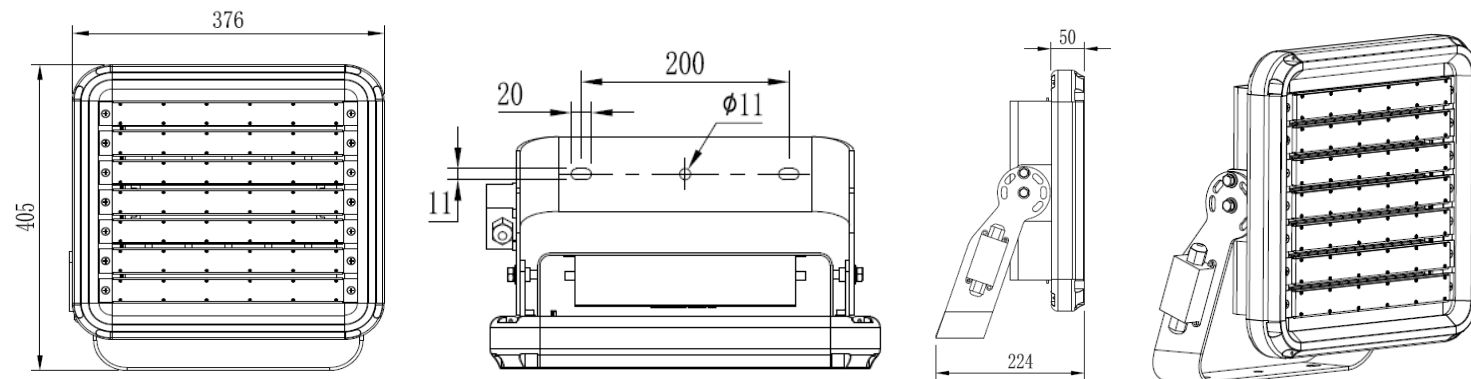


DIMENSIONS mm ( $\pm 1.1\text{mm}$ )

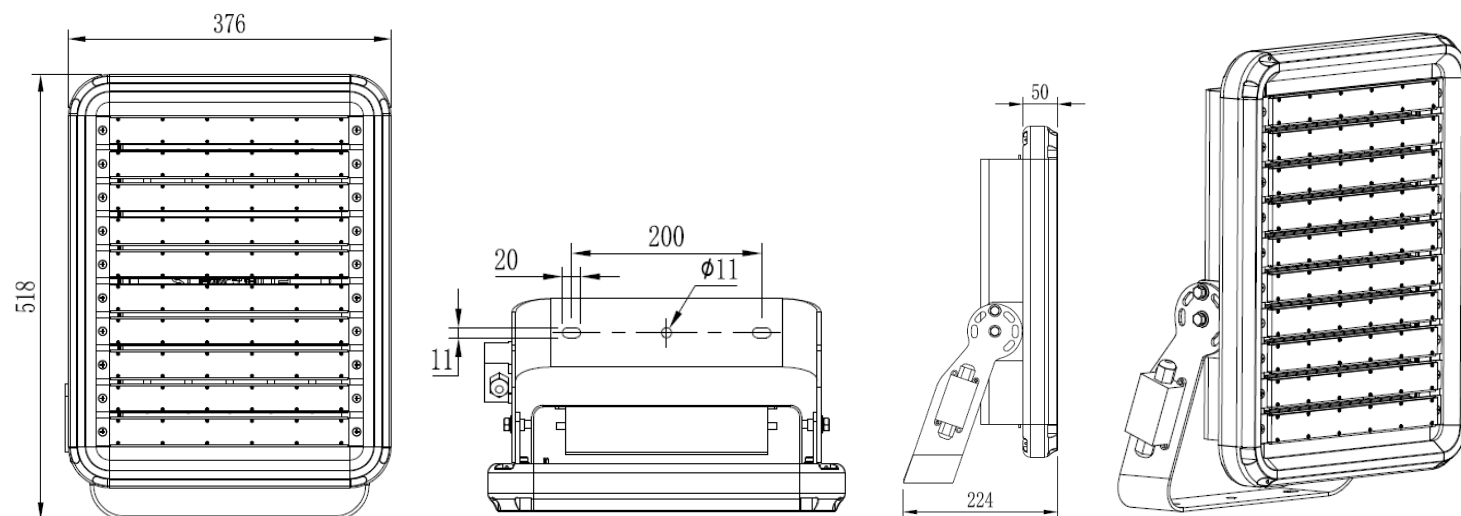
200W



300W



400W



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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