

HAZLOC & HARSH ENVIRONMENT LED LUMINAIRES

HAC MP SERIES

DESCRIPTION

The LR-HAC MP AC LED series of UL844 products have been engineered to offer stable and reliable operation in both hazardous and harsh conditions with expected exposure to flammable gases, vapours, combustible dusts and ignitable fibres. The aluminum alloy housings are CNC machined to precise tolerances offering exceptional thermal management in extreme atmospheres.

The innovative driverless design and exceptional thermal efficiency allows the HAC MP series of luminaires to withstand shock and vibration effortlessly and function in exceptionally high temperature environments with temperatures capabilities of 95°C/203°F and L70 of >54,000hrs for 55°C ambient. Furthermore operation in high temperature environments does not require the traditional and costly remote driver assemblies, components and associated wiring.

The HAC MP LED luminaires feature very low maintenance requirements without experiencing the traditional failures of conventional DC driver designs. Specially coated with a proprietary polyester-epoxy finish with standard IP68/Nema 6P ingress protection make the HAC series suitable for deployment in highly corrosive and demanding conditions. Fluorocarbon coatings are available as an option for applications requiring a specialized surface finish.

Numerous mounting options with available retrofit kits for commonly used legacy HID and incandescent fixtures allow for even greater application versatility and simple installation. Available in multiple power configurations ranging from 60W to 100W with SMD or COB light engines which produce >100lm/w in 5000K CCT with 120° beam distribution offering superior and uniform coverage. Input voltage can be specified as either 24V, 120V, 277V or 480VAC, additionally the imbedded thermal rollback circuitry assures long term reliability and performance.



APPLICATIONS

- Petrochemical
- Paint & Coatings
- Pulp & Paper
- Water & Waste Water
- Foundries
- Robotic Welding
- Test Chambers
- Oil & Gas
- Grain Production & Storage
- Offshore Platform



LISTED:

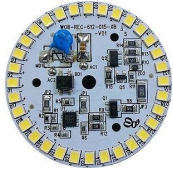
Class I, Division 1 Group B, C, D
Class I, Division 2 Group A, B, C, D
Class II, Division 1 Group E, F, G
UL1598 / UL844 / UL60079

HAC MP SERIES SPECIFICATIONS

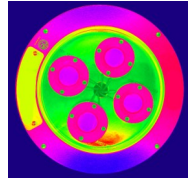
FIXTURE SERIES	POWER	LED TYPE	CCT	DISTRIBUTION	EXIT LUMEN	OPERATING VOLTAGE	IP RATING	DIMENSIONS
LR-HAC-MP-060-XX -XX-XX	60W	AC Direct COB	4000K (3000-5000K avail)	120Deg. Symmetrical	6000lm Typ.	24V-120V 277-480VAC	IP68	Ø234xL235mm Ø9.21xL9.25 "
LR-HAC-MP-065-XX -XX-XX	65W	AC Direct SMD	4000K (3000-5000K avail)	120Deg. Symmetrical	6500lm Typ.	24V-120V 277-480VAC	IP68	Ø234xL235mm Ø9.21xL9.25 "
LR-HAC-MP-075-XX -XX-XX	75W	AC Direct SMD	4000K (3000-5000K avail)	120Deg. Symmetrical	7500lm Typ.	24V-120V 277-480VAC	IP68	Ø234xL235mm Ø9.21xL9.25 "
LR-HAC-MP-080-XX -XX-XX	80W	AC Direct COB	4000K (3000-5000K avail)	120Deg. Symmetrical	8000lm Typ.	24V-120V 277-480VAC	IP68	Ø234xL235mm Ø9.21xL9.25 "
LR-HAC-MP-095-XX -XX-XX	95W	AC Direct SMD	4000K (3000-5000K avail)	120Deg. Symmetrical	9500lm Typ.	24V-120V 277-480VAC	IP68	Ø234xL235mm Ø9.21xL9.25 "
LR-HAC-MP-100-XX -XX-XX	100W	AC Direct COB	4000K (3000-5000K avail)	120Deg. Symmetrical	10000lm Typ.	24V-120V 277-480VAC	IP68	Ø234xL235mm Ø9.21xL9.25 "



FEATURES



SMD or COB LED ENGINES



EXCEPTIONAL THERMAL PERFORMANCE



DRIVERLESS DESIGN



ALUMINIUM ALLOY CNC MACHINED HOUSING



HIGH TEMPERATURE CAPABLE

PRODUCT IMAGES

SMD



COB



ORDERING INFO: LR-HAC-MP-ST-080-SM-AA-50-12-TR

ELECTRICAL SPECIFICATIONS

- Power Input: AC120 or AC277V 50/60Hz
- AC24V or AC480V (Option)
- Power Factor: ≥ 94
- THD: $\leq 20\%$ @ full Load

OPERATING TEMPERATURE*
-20°C to +40°C-ST
High Temp**-HT

POWER
60W-060
65W-065
75W-075
80W-080
95W-095
100W-100

LED ENGINE
SMD-SM
COB-CO

CLASS
C1D1-AA
C1D2-AB

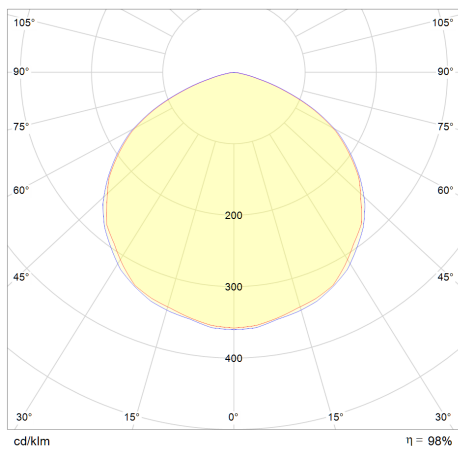
CCT
3000k-30
4000k-40
5000k-50

OPERATING VOLTAGE
24VAC-LV
120VAC-12
277VAC-27
480VAC-HV

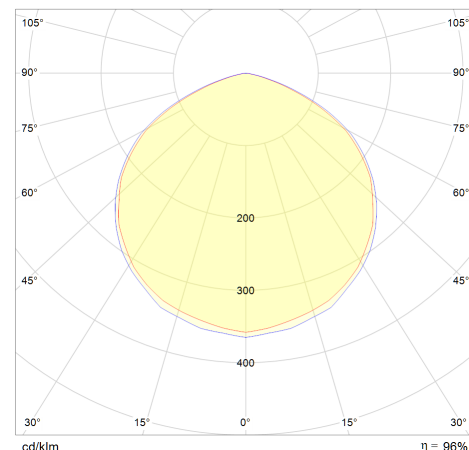
MOUNTING
Trunnion-TR
Tri Adj.-TA
Wall Adj.-WA
Ceiling.-CE
25° Stanchion-25S
90° Stanchion-90S
Pendant-PE
Tripod-TP

**Please consult a LEDRAYS engineer to define the maximum acceptable ambient operating temperature & lifetime for the HT version.
DIM Control: 0-5V, 0-10V, 1-10V, 0-20ma, 4-20ma, RS485, RS-232, PWM, RES, LEDIM, TEDIM, DMX512, DALI, Custom
LEDRAYS offers the following dimming options (Please note not all DIM methods apply to a particular product)

PHOTOMETRIC DISTRIBUTION



65W / SMD 5000K

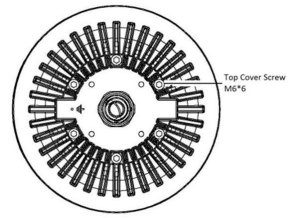
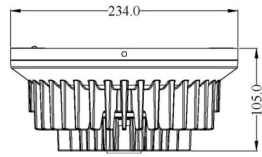


95W / SMD 5000K



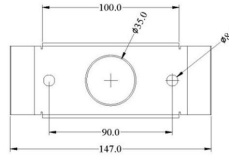
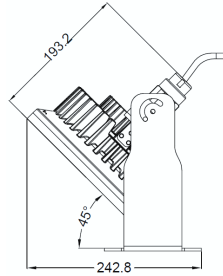
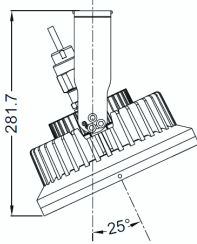
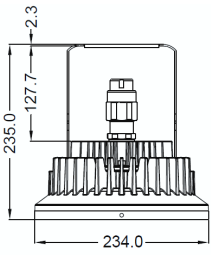


DIMENSIONS (mm)

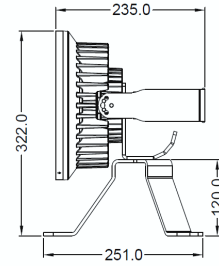


MOUNTING

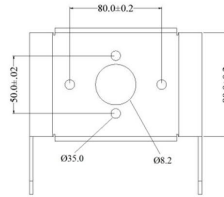
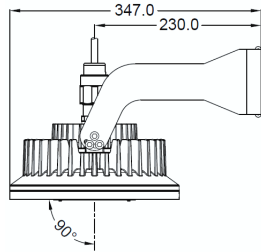
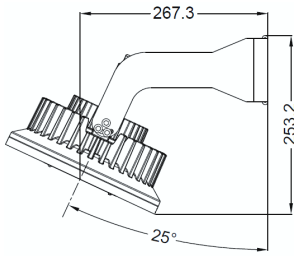
TR (TRUNNION)



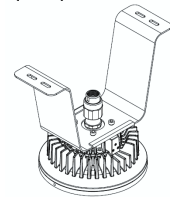
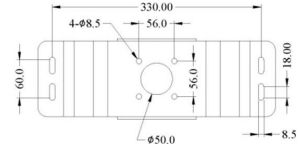
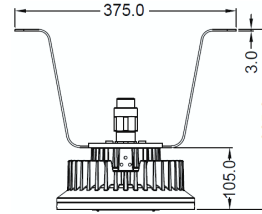
TA (TRI ADJUSTABLE)



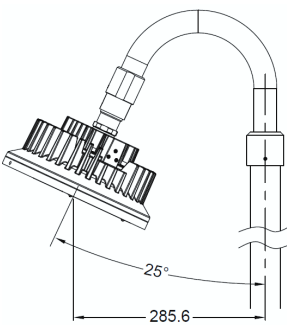
WA (WALL ADJUSTABLE)



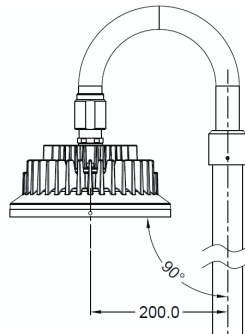
CE (CEILING)



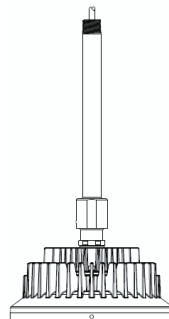
25S (25° STANCHION)



90S (90° STANCHION)



PE (PENDANT)



TP (TRIPOD)

