

BR//GHT[®]
SPECIAL LIGHTING



TORTUS 2
URBAN LIGHTING

DESCRIPTION

The luminaire has an area narrow and area wide distribution to maximize pole spacing while meeting the required foot-candle level and uniformity for the application. Performance packages range up to 105,000 lumens designed to meet critical levels for "high task" areas like Highways, Interchanges, Ports, Rail Yards, Container Yards, Parking Lots, Correction Facilities. The fully prismatic glass optics produce an overlapping light pattern resulting in high application efficacy providing excellent uniformity and glare control resulting in excellent visibility within the space.



DESCRIPTIONS OF LIGHTING

- Combined by 3 (4/5/6/7) LED modules, and equipped with glass/PC lens for each module, our High Mast Light is able to converge stray light in a most efficient way. Every single module is placed in a complete ventilated aluminum housing for maximum thermal transmission. The heat sink is made up by two pieces of die-casting aluminum for thermal convection, there are two screw bolts and buckles to fix the light when assembling, and can be opened in 115 degrees.

FUNCTIONS AND ADVANTAGES

- Lumen packages ranging from 29400 to 97500 provide one-for-one replacement of up to 1500 watt HPS.
- Prismatic glass optics provide high application efficacy, uniformity, and glare control.
- A choice of multiple asymmetric lighting distributions for both median mount and offset pole mounting configurations.
- Symmetrical narrow and wide distributions to maximize system efficacy and quality of light for multiple pole spacings.
- Long system life with driver life exceeding 100,000 hours and LED life of L82 @ 100,000 hours minimize maintenance costs.
- Robust mechanical design with IP66 optics, 3G vibration rating, 4-bolt mounting, powder painting finish, passed 1000-5000Hrs salt spray test.

ACCESSORIES (OPTIONAL)

- Robust extreme surge protection rating of 20kA/10kA.
- Control options include 0-10V dimming, 3/5/7-pin photocell control, enabled
- Field-adjustable output allows for zone control, accelerating your return on investment.

GLASS/PC LENS

- Glass/PC lens is able to ensure the luminous effect, also keep dust and dirt away, level of protection is IP66.



INSTALLATION METHOD

- Three mounting options for time saving installation.
- Fit for round Pole within 42-60mm.



APPLICATIONS

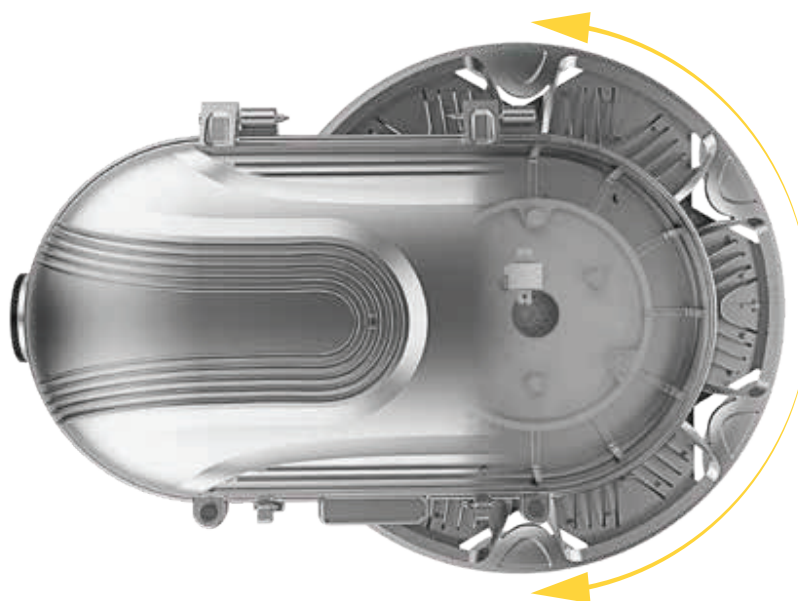
- Port Container Facilities
- Highways
- Interchanges
- Rail Yards
- Correctional Facilities
- Large Area Industrial
- Military Installations
- Airports
- Truck stops
- Toll Plazas

• The luminaire has multiple roadway lighting distributions designed to maximize spacing while meeting stringent requirements of IES RP8 guidelines for average, uniformity and veiling luminance. Installation costs are minimized with this direct retrofit luminaire without rewiring or changing existing luminaire arms. Asymmetric distributions are easily aimed towards the roadway with the rotatable optical assembly.

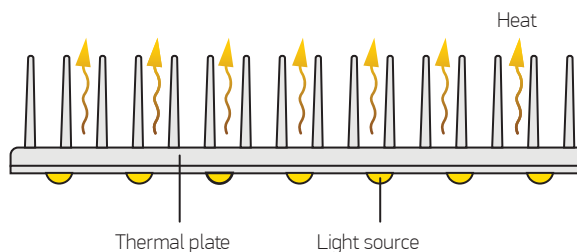
Ventilation convection housing

Rotate 0°~355°

Rotation lamp body, adjustable light placement.



The luminaire uses a die-casting heat sink to convect/conduce heat, quickly dissipate heat, and extend the life of the LED lamp.



TECHNICAL DETAILS

Specifications

Electrical Data

Wattage	210W / 240W / 320W / 475W / 570W / 631W / 750W
Power Supply	Build-in electronic driver
Input Voltage	AC120-277V/AC277-480V
Power Frequency	50/60Hz
Power Efficiency	>90%
Power Factor	0.90
Total Harmonic Distortion	<15%
Dimming	1-10V Dimming

Optical Data

LED Type	Philips/OSRAM
Efficiency	140lm/W
Luminous Flux	29400 / 33600 / 44800 / 66500 / 79800 / 85000 / 97500Lm
CCT	3000K / 4000K / 5000K / 5700K
CRI	>70Ra
System Efficiency	>90%
Beam Angle	Optional

Others

IK	IK 08
IP	IP 66
Lens Material	PC/Glass
Heat Radiator	Die-cast aluminum
Operating Temp.	-40° ~ 55°C
Net weight	24.8kg(750W)

Performance Table

5000K		
Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
210	29400	140
240	33600	140
320	44800	140
475	66500	140
570	79800	140
630	85000	135
750	97000	130

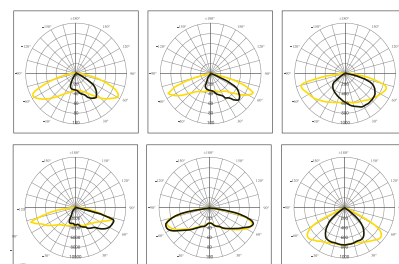
Electrical Load

System Wattage (W)	120V	208V	240V	277V	347V	480V
	Input Voltage					
210	1.84	1.06	0.92	0.80	0.64	0.46
240	2.10	1.21	1.05	0.91	0.73	0.53
320	2.80	1.62	1.40	1.21	0.97	0.70
475	4.16	2.40	2.08	1.08	1.44	1.04
570	4.99	2.88	2.49	2.16	1.72	1.25
630	5.51	3.18	2.76	2.39	1.91	1.38
750	6.56	3.79	3.28	2.84	2.27	2.86

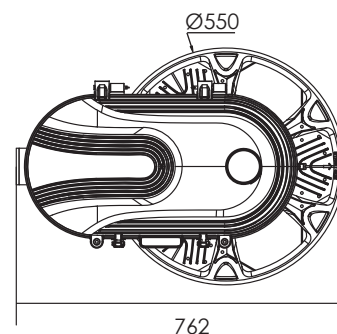
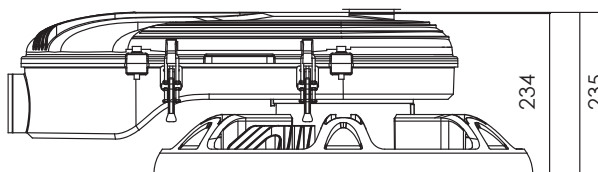
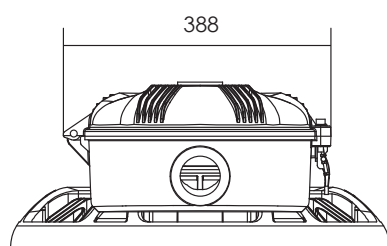
ENERGY SAVINGS

Energy Savings	60%
Maintenance Savings	60%
Service Life	>100,000Hrs

PHOTOMETRIC DIAGRAMS



Product Dimensions



B R // G H T[®]

SPECIAL LIGHTING

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