

**LUMINAIRE**  
Holophane Lighting model ESU175WH124-R  
Luminaire shall be furnished and installed by the Central Maine Power Company under the municipal lease agreement for street lighting.  
Luminaire shall be manufacturer's standard black color.

**LAMP**  
Holophane Lighting model S-M175/U 64471  
Vertical mounted, 175 watt mogul base clear metal halide lamp.

**BRACKET ARM**  
Holophane Lighting model OUC 6063-T8  
Aluminum crossarm with a post-top fitting for a 3-1/2" by 8" tenon.  
Bracket arm shall be manufacturer's standard black color.

**SLIP FITTER**  
Holophane Lighting model BHP200-SCA/AS  
(Boston Harbor Series)  
2-3/8" O.D. with swivel cast fitter.  
Slip fitter shall be manufacturer's standard black color.

**LIGHTING POLE**  
Tapered steel pole shaft rated for a 90mph wind load with a 1.3 gust factor. Provide four hot-dipped galvanized steel L-type anchor bolts.  
Lighting pole shall be manufacturer's standard black color.

**DECORATIVE POLE BASE**  
Holophane Lighting model Cambridge Series  
Decorative cast aluminum base. Hardware shall be stainless steel.  
Decorative pole base shall be manufacturer's standard black color.

**APPLICATION**  
Street/Sidewalk lighting for two-way streets with parking on one side, or one-way streets.  
Suggested layout:  
90-100 ft on center (one side only)  
150-200 ft on center (staggered pattern both sides)

**DATE:** AUGUST 2009  
**REVISIONS:**

**CITY OF PORTLAND, MAINE TECHNICAL STANDARDS MANUAL**

**MUNICIPAL STREET LIGHTING STANDARDS SECTION X**

**FIGURE:** X-5C

**EASTERN WATERFRONT DISTRICT MEDIUM SCALE LIGHTING POLE**

**City of Portland, Maine Street & Sidewalk Lighting WATERFRONT COMMERCIAL DISTRICT Medium Scale Lighting Pole 08/20/09**

### LUMINIS. W633/W635/W639 ECLIPSE - LED

TYPE: \_\_\_\_\_ QUANTITY: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG NUMBER	FIXTURE	WATTAGE	VOLTAGE	FINISH	ELECTRICAL	OPTIONAL	OPTIONAL	OPTIONAL	ACCESSORY
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**1- Top removable cover.** (See option DL2 for up light)  
**2- Cast aluminum top seal wire holder.**  
**3- High impact satin ice frosted UV stabilized acrylic diffuser.**  
**4- Set of 3 X 1/2" (3) solid aluminum struts.**  
**5- Heat dissipation aluminum board.**  
**6- LED light engine.**  
**7- Cast aluminum strut holders.**  
**8- Cast aluminum lower electrical chamber housing.**  
**9- Removable bottom cover.** (See option LDI for down light.)

**W633** With three cast alum. lower blades  
**W635** With plain diffuser  
**W639** With light disc shield

**MATERIALS**  
Eclipse is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.2%.

**ELECTRICAL**  
**LED DRIVER** 120/277V multi volt (50-60Hz) with a minimum starting temperature of -30 C/-22 F. Optional 347V on request. Output over voltage, output over current and output short circuit protection with auto-recovery. Over temperature protection (TID C).  
**LED** Standard 4000 K LED platform included. Optional 3000 K and 3500 K. Removable modular LED platform.

**LIFE** 50,000hrs L<sub>70</sub> (based on IESNA TM-21 Test Method and LM-80 data).  
68,000hrs L<sub>50</sub> (calculated projection from LM-80 data).

**FINISH** Five-stage preparation process including preheating of cast aluminum parts for air extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

**MOUNTING** Maximum weight **W633** 19 Sibs (8.8kg), **W635** 19 Sibs (8.8kg), **W639** 23 Sibs (9.1kg).  
Eclipse is designed for ease of access and installation. Standard luminaire is supplied with a full length steel galvanized wall mounting plate to ensure uniform adherence.

**CERTIFICATION** Tested to UL1598 and CSA 22.2 #250. ETL listed wet location. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standard at 25 C. Lumen depreciation in accordance with IESNA LM80 standards. CE certification on request. Rated IP65.

**W639** Top view  
**W633/W635** Front view  
**W633/W635** Side view

### Specifications

**Housing** - Durable corrosion resistant extruded (minimum .125" wall thickness) and cast aluminum (minimum .188" wall thickness) construction.

**Internal Louver (IL)** - A specular lower stack conceals the internal lamp module and provides uplight and glare control through the external clear polycarbonate lens.

**Cast Lower (CL and CLHV)** - Cast aluminum (A356 alloy <0.2%Cu) lower stack protects the internal lamp module (with diffuse glass enclosure) or LED Power Array Module (with opal diffuse lens). Horizontal louvers create a 30° cut-off angle. All horizontal louvers provide 360° of downlight (CL) or combine with vertical louvers to provide 180° of downlight and 180° of vertical illumination (CLHV).

**Opal Lens (WP)** - Opal polycarbonate lens protects the internal lamp or LED Power Array Module (with opal diffuse lenses) and provides uniform illumination.

**Twin Reflector (TR)** - Two piece reflector cuts off view of the HD lamp and reflects light downward towards a parabolic reflector that projects even illumination around the ballast through a clear polycarbonate enclosure. For LED sources, a radial LED assembly directs light toward the parabolic reflector element.

**Prismatic Glass Reflector (PG)** - HD only - Clear polycarbonate lens surrounds a prismatic glass reflector (Type III and Type V).

**Electrical Module** - All electrical components are UL and cUL recognized are mounted on a single plate and factory prewired with quick-disconnect plugs. All HD lamps are medium base (230) or Bi-pin Base (G12). Electronic MH ballasts have a power factor of > .95 (35/39W - 100W), 20°F starting, 120/277V and have lamp End-of-life protection. 347V option utilizes a step down transformer to the electronic ballast. Magnetic MH ballasts are high power factor (35/39W - 100W), 20°F starting, multi-tap, 100/277V. All MH ballasts are care and coil, high-reaction, high power factor (35/39W - 100W), 40°F starting. Electronic CFL ballasts are high power factor (120 - 277 voltage sensing), G124 cut socket supplied for all 18w - 42w tube lamp lamps.

**LED Driver** - UL and cUL recognized High Power Factor Constant Current LED drivers operate on input voltages from 120/277VAC, 50/60Hz and is mechanically fastened to a retaining bracket. 347V option may utilize a step down transformer to the LED driver. Driver Main power quick disconnect provided. Driver has a minimum 4kV of internal surge protection. Consult factory for other voltages. Dimming and High-Low Driver options available. 10kV & 20kV Surge Protector optional.

**Dimensions**

**Spec/Order Example:** BDA8 TR/70PSMH480/RAL8019-T/10SP

MODEL	OPTICS	LAMP/BALLAST MODE	VOLTAGE	FINISH	OPTIONS
BDA8	TYPE III REFLECTOR	HID	120	BLACK	INTERNAL HOUSING SIDE SHIELD
			240	WHITE	20°
			347	GREY	30°
			480	GREEN	45°
BDA6	TYPE III REFLECTOR	HID	120	BLACK	INTERNAL HOUSING SIDE SHIELD
			240	WHITE	20°
			347	GREY	30°
			480	GREEN	45°
BDA6	TYPE III REFLECTOR	LED	120	BLACK	INTERNAL HOUSING SIDE SHIELD
			240	WHITE	20°
			347	GREY	30°
			480	GREEN	45°

### LUMINIS. NT802/NT804/NT812 NAUTILUX - LED

TYPE: \_\_\_\_\_ QUANTITY: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG NUMBER	FIXTURE	WATTAGE	VOLTAGE	FINISH	OPTION	OPTION	OPTION	OPTION
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**1- Cast aluminum enclosed housing.**  
**2- Silicone gasket with memory retention.**  
**3- LED cast aluminum heat dissipating fins.**  
**4- White enamel reflective surface.**  
**5- Borosilicate frosted glass diffuser with internal corrugated structural pattern.**  
**6- Cast aluminum front cross blades.**  
All stainless steel hardware.

**NT802** Cast aluminum single cross blades  
**NT804** Frosted glass diffuser  
**NT812** Cast aluminum double cross blades

**MATERIALS**  
Nautilus is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.2%.

**ELECTRICAL**  
**DRIVER** Standard 0-10V dimming ready, 120/277V multi volt (50-60Hz) with a minimum starting temperature of -30 C/-22 F.  
**LED** Standard 4000K LED platform included. Optional 3000K and 3500K. Removable modular LED platform.

**LIFE** 50,000hrs L<sub>70</sub> (based on IESNA TM-21 Test Method and LM-80 data).  
68,000hrs L<sub>50</sub> (calculated projection from LM-80 data).

**FINISH** Five-stage preparation process including preheating of cast aluminum parts for air extraction and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

**CERTIFICATION** Tested to UL1598 and CSA 22.2 #250. ETL listed wet location. Photometry tested per IES LM-79-08 / IES LM80 test report. CE certification on request. Rated IP65.

**MOUNTING** Maximum weight: 18lbs (8.2kg).  
Mounts on a standard 4" (102) octagonal electrical box with 3 1/2" (89) C/C mounting holes.

**ADA Compliant Luminaire**

### DSCP/DSTP Fixture Specifications and Ordering

**Housing** - (For up to 175W) - Ballast housing is spun from .080" aluminum. Internal ballast support bracket also functions as mounting reinforcement plate and has a minimum thickness of .125". (For 200W & above) - Ballast housing is cast from low copper (A356, < 0.2% aluminum alloy, minimum .125" wall thickness. Optical housing is spun from .080" aluminum, hemmed at the edges. Lens frame is a one-piece .060" aluminum spinning surrounding a 3/16" tempered glass lens sealed with a continuous silicone gasket and attaches to the housing with the AccuHinge™ hinging mechanism. A captive stainless steel thumbscrew allows for tool less entry to the optical compartment which is sealed with a closed cast E-DM-gasket.

**Mounting** - When pendant mounted, the fixture housing is connected to the mounting arm by the Trulux™ swivel which is internally welded to the housing and allows for fixture leveling prior to locking the swivel. When side arm mounted, the housing is externally welded to the mounting arm and the weld is blended to produce a smooth, continuous joint.

**Optics** - Refer to page 62 for Optical System Specification.

**Electrical Components** - Refer to page 62 for Electrical Components Specification.

**Finish** - Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20psi power wash at 140°F. All castings are shot blasted to provide a uniform surface prior to power wash and paint. A four step iron phosphate pretreatment for protection and paint adhesion is utilized. 400°F bake for maximum hardness and durability.

**Spec/Order Example:** DSTP1/150PSMH277E(HR/HI)/1/RAL6005

MODEL	LAMP/BALLAST MODE	OPTICS	MOUNTING	FINISH	OPTIONS	
DSCP25	HID	TYPE I HRI-I	1-100	BLACK	CONVEX GLASS LENS - DG	
					240	CLEAR CONVEX LENS - CA
					347	POLYCARBONATE - CP
					480	ORAL CONVEX LENS - WA
DSTP25	LED	TYPE V HR-V	1-100	BLACK	ORAL CONVEX LENS - WP	
					240	3 1/4" IPS STEM MOUNT AND SHIELD CANOPY
					347	CHAIN MOUNTED
					480	GREEN