

LUMINAIRE
Holophane Lighting model ESU175MH1244-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 1/2" lens.
Bracket arm shall be manufacturer's standard black color.

SLIP FITTER
Holophane Lighting model BHLF200-SCA/AS (Boston Harbor Series)
2-3/8" O.D. with swivel coat filter.
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 diamond 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)

City of Portland, Maine
Street & Sidewalk Lighting
WATERFRONT COMMERCIAL DISTRICT
Medium Scale Lighting Pole
08/26/17

DATE: AUGUST 2009	CITY OF PORTLAND, MAINE TECHNICAL STANDARDS MANUAL	MUNICIPAL STREET LIGHTING STANDARDS SECTION X	FIGURE: X-5C
REVISED:	EASTERN WATERFRONT DISTRICT MEDIUM SCALE LIGHTING POLE		

LUMINIS **W633/W635/W639**
ECLIPSE - LED

TYPE: QUANTITY: PROJECT: CATALOG NUMBER: FIXTURE WATTAGE VOLTAGE FINISH ELECTRICAL OPTION ELECTRICAL OPTION ACCESSORY ELECTRICAL OPTION

W633/W635/W639

- Top removable cover. (See option DL2 for up light)
- Cast aluminum top sealed lens holder.
- High impact satin ice frosted UV stabilized acrylic diffuser.
- Set of 3 x 1/2" (3) solid aluminum struts.
- Heat dissipation aluminum board.
- LED light engine.
- Cast aluminum strut holders.
- Cast aluminum lower electrical chamber housing.
- Removable bottom cover. (See option LDL for down light.)

MATERIALS
Eclipse is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
Light source is enclosed in a high impact satin ice frosted UV stabilized acrylic sealed diffuser, secured with a set of (3) 1/2" diameter solid aluminum struts.
W633: Set of three cast aluminum lower blades.
W635: High impact satin ice frosted acrylic diffuser.
W639: Field adjustable semi oblong aluminum light shield.

CERTIFICATION
Tested to UL1598 and CSA 222 #250. ETL listed wet location.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards. CE certification on request.
Rated IP65.

LIFE
51,000hrs L₇₀ (based on IESNA TM-21 Test Method and LM-80 data).
68,000hrs L₅₀ (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**: 19.5lbs (8.8kg)
Maximum weight **W635**: 19.5lbs (8.8kg)
Maximum weight **W639**: 21.5lbs (9.7kg)
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.

December 2015 Rev. 0

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 inner lamp module and provides uplight and glare control through the external clear polycarbonate lens.

Cast Louver (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 lenses). Horizontal louvers create a 30° cut-off angle. All horizontal louvers provide 340° 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.

Twist Reflector (TR) - Two-piece reflector cuts off view of the HD lamp and redirects 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 II and Type V).

Electrical Module - All electrical components are UL and cUL recognized and mounted on a single plate and factory prewired with quick-disconnect plugs. All HID lamps are medium base (250) or Bi-pin Base (G12). Electronic MH ballasts have a power factor of >.95 (S5/S9W - 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 (S5/S9W - 100W), 20°F starting, multi-top 120-277V. All HPS ballasts are core and coil, high-efficiency, high power factor (S5/S9W - 100W), 40°F starting. Electronic CFL ballasts are high power factor 120 - 277 voltage sensing, GX24-q4 socket supplied for all 18w - 42w triple tube 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

LED Power Array - Three-dimensional array consisting of 6 individual LED tubes fastened to a retaining plate equally spaced to provide 360° of even illumination output. Each LED tube consists of a circuit board populated with a multiple of LEDs which is fastened to a radial aluminum heat sink. A white polycarbonate lens and end caps protect each LED's internal components and provides diffusion to prevent shadowing and striations.

Finish - Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and non phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

Spec/Order Example: BDA8-TR/70PSMH480/RAL-8019-T/10SP

MODEL	OPTICS	LAMP/LED MODE	VOLTAGE	FINISH	OPTIONS
BDA6	TWIN REFLECTOR (TR) 180° HORIZ. FOR BIPIN	HID	120	BLACK RAL-9005-T	INTERNAL HOUSING SIDE SHIELD 30° HSR0
BDA6	INTERNAL LOUVER (IL)	HID	200°	WHITE RAL-9003-T	30° HSR0
BDA6	CAST LOUVER (CL)	HID	240	GREY RAL-7004-T	180° HSR180
BDA6	CAST LOUVER (CLHV)	HID	277	DARK BRONZE RAL-8019-T	180° HORIZ. 180° VERT. CLHV
BDA6	CAST LOUVER (CLHV)	HID	347	DUPLEX RECEPTACLE DUP	180° HORIZ. 180° VERT. CLHV
BDA6	CAST LOUVER (CLHV)	HID	480	GROUND FAULT RECEPTACLE GFI	180° HORIZ. 180° VERT. CLHV
BDA6	PRISMATIC GLASS REFLECTOR (PG-R)	HID	480	GREEN RAL-6005-T	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-V)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-B)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-W)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-A)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-S)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-L)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-U)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-D)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-T)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-B)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-W)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-S)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-L)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-U)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
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BDA6	PRISMATIC GLASS REFLECTOR (PG-W)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-S)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-L)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-U)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
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BDA6	PRISMATIC GLASS REFLECTOR (PG-U)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-D)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-T)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-B)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-W)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-S)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-L)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-U)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-D)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-T)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-B)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)
BDA6	PRISMATIC GLASS REFLECTOR (PG-W)	HID	480	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)	FOR SMOOTH FINISH FINISHING SUPPLY IT (SEE NOTE)