

York & High Street (Municipal Lighting)

City of Portland Technical Manual Section 10 - Municipal Street Lighting Adopted 7/19/10

LUMINAIRE
Holograph Lighting model ESU175MH124-1P
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
Holograph Lighting model S-4175/U 64471
Vertical mounted, 175 watt mogul base clear metal halide lamp.

BRACKET ARM
Holograph Lighting model OUC 6063-T8
Aluminum crossarm with a post-top fitting for a 3-1/2" by 4" lens.
Bracket arm shall be manufacturer's standard black color.

SLIP FITTER
Holograph Lighting model BHLF200-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 1.5 gust factor. Provide four hot-dipped galvanized steel L-type anchor bolts.
Lighting pole shall be manufacturer's standard black color.

DECORATIVE POLE BASE
Holograph 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)

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

DATE: AUGUST 2009
REVISED:

CITY OF PORTLAND, MAINE
TECHNICAL STANDARDS MANUAL

MUNICIPAL STREET
LIGHTING STANDARDS
SECTION X

FIGURE:
X-5C

EASTERN WATERFRONT DISTRICT MEDIUM
SCALE LIGHTING POLE

245

Buff Brick Wall Sconce (Architectural Lighting)

NAUTILUX
NT800/NT805/NT825 - HID NT802/NT804/NT812 - LED

WALL/SEMI-RECESSED

NT800/NT802
Cast aluminum cross blades

NT804/NT805
Cast aluminum double cross blades

NT800R/NT802R
Semi-recessed

NT800/NT805R
Semi-recessed

NT802/NT804
Semi-recessed

NT802R/NT804R
Semi-recessed

lumina.com | 197

Dark & Red Brick Wall Sconces (Architectural Lighting)

CAMBER™ ORDERING INFORMATION

Ordering Example
CBR4 / 70PSMH120 / RAL-9005 / CF15 / EE

1. FIXTURE
CBR1 CBR2 CBR3 CBR4 CBR5

2. ELECTRICAL MODE
PULSE START METAL HALIDE
50PSMH120 70PSMH120 70PSMH206 100PSMH120
50PSMH277 70PSMH208 70PSMH206 100PSMH208
70PSMH240 70PSMH206 100PSMH240 100PSMH277
70PSMH347 70PSMH277 100PSMH347

3. FINISH
Electrostatically applied TGIC powder coating features a multi-step finishing process to produce a durable weather resistant finish.

COLOR TEXTURED SMOOTH
BLACK RAL-9005-T RAL-9005
WHITE RAL-9003-T RAL-9003
GREY RAL-7004-T RAL-7004
DARK BRONZE RAL-8019-T RAL-8019
GREEN RAL-6005-T RAL-6005

4. COLOR FILTERS FOR CBR4
CLEAR CFC
DEEP STRAW 15 CF15
MEDIUM RED 27 CF27
BRILLIANT BLUE 69 CF69
PRIMARY GREEN 91 CF91

5. OPTIONAL EMERGENCY EGRESS
CBE NO. EE
Silva Model TLX-SE
20W or 30W MH LED fixture
for discrete wiring back
to emergency generator,
inverter or battery backup
by others.

Downward light per architectural lighting standards

MAX 13.5" (343mm)
16.00" (406mm)
24.00" (609mm)

www.uslightg.com U.S. ARCHITECTURAL LIGHTING

Residential Entrance Canopy Lighting (Full Cut-Off Site Lighting)

110ILED Uniframe LED 6 3/4"
Downlight, New construction, Non-IC Frame-In Kit

Dimensions
12 15/16" min.
24 1/8" max

Features
1. **Mounting frame:** 0.035" (0.20ga.) Galvanized Steel. Accommodates all ceilings up to 1-1/2" thick.
2. **Trim clips:** "Push in/twist out" stainless steel clips hold reflector flush to ceiling.
3. **Junction box:** 2" x 4" x 3-1/2" (2ZCU, in.) 0.52" (16ga.) galvanized steel. UL listed for maximum of 8 (812ga.) through branch circuit conductors.
4. **Uniframe mounting system - grid ceiling:** Tool free mounting in grid ceilings. D3P (0.0ga.) Galvanized Steel interlocking slide bars adjust to 24-1/8" long accommodating 24" O.C. Ceiling Grid. Adjustable speed clamps for positive attachment to grid ceiling systems.
5. **Uniframe mounting system - wood joist ceiling:** Integral nailing tabs, alignment guides, fastener holes and bendable strapping guides for wood joist installation. Galvanized Steel interlocking slide bars adjust from 12-15/16" to 24-1/8" long to accommodate 16" and 24" O.C. joist spacing, with or without strapping.
6. **Reflector:** See individual specification sheets for information.
7. **Optical mixing chamber:** Designed to provide a spacing ratio of 3 (60° beam) when installed in standard Lyncaster trims. Optic design provides less glare than standard PAR lamps.
8. **Lens:** Solite Glass lens has high transmission value with slight texturing to provide a smooth consistent beam distribution.
9. **Lead board:** Utilizes Philips Lumileds LEDs.

Accessories
1967A: Extra thick ceiling adapter (2" thick)
L56WVWLENS: Spread lens for use with wall wash trims to provide even vertical illumination.

Labels
cULus listed, suitable for damp locations. UL wet location classified. ENERGY STAR® certified. 5 year warranty. I.B.E.W.

Electrical
Class 2 power unit for use in a damp or dry location (Outdoor Type IP66). Class A sound rated unit tolerates sustained open circuit and short circuit output conditions without damage. Complies with FCC rules per Title 47 CFR Part 15 Non-Consumer (Class A) for EM/RFI (conducted and radiated) at full load. Dimming (0-10V) version intended for use with 0-10V DC type dimmers. See www.advancephillips.com for latest dimming switch compatibility.

Input voltage	Input Freq.	Max. Input Current	Max. Power	Power THD	Min. Temp. Operate	Dimming Signal
120v	50/60Hz	0.14A	17W	< 20%	> -30° C	N/A
120v-dim	50/60Hz	0.14A	17W	< 20%	> -30° C	0-10V
277v	50/60Hz	0.07A	19W	< 20%	> -30° C	N/A
277v-dim	50/60Hz	0.07A	19W	< 20%	> -30° C	0-10V

110ILED 11/14 page 2 of 3

Downward light per architectural lighting standards

DATA

MATERIALS
Nautilux is made of corrosion resistant 356 aluminum alloy with a copper (Cu) content of less than 0.1%. The biostatic thermal shock frosted glass is designed to be used as a full diffuser or coupled with a selection of multiple cast aluminum front blades.
HID Lamp is positioned horizontally and combined with a specular aluminum reflector with down light concentration maintains a general uniform light over the glass diffuser.
LED platform is easily positioned to produce downward light while glass diffuser remains illuminated. LED module is easily removable and secured with a heat dissipating plate for optimal light performance.

LIFE
51,000hrs L70 B₅₀ (based on IESNA TM-21 Test Method and L80 data), 68,000hrs L70 B₅₀ (calculated projection from L80 data).

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

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

ELECTRICAL
Standard 0-10V dimming ready, 120/277V multi volt (50-60Hz) with a minimum starting temperature of -30°C/-22°F. Output over voltage, output over current and output short circuit protection with auto-recovery. Over temperature protection (10°C).

BALLAST
Electronic universal voltage 120V-277V (347V an request) and a power factor greater than 90%. End of life protection with a minimum starting temperature of -20°C/-4°F.

SOCKET
G12 base pulsed rated 40V porcelain body with a nickel plated screw shell and a center contact rated 600V. Supplied with 200°C leads.

CERTIFICATION
Tested to UL1598 and CSA 22.2 #250. ETL listed wet location. Photometry tested per IES LM-79-08 / IES LM90 test report. Rated IP65.

LUMINAIRE SELECTION

INPUT WATTS	120V	LED (4000K, CR #0)	30W
DELIVERED LUMENS	588	880	1380
SUFFIX	LWV2	LWV8	LWV10

SOURCE	39W	50W	70W
SUFFIX	H50T	H50T	H70T

NOTE: * indicates selection is standard and available. Updated specification sheets and IES files are available on lumina.com

OPTIONS (See page 200)

NAUTILUX
196 |

LUMINA | NAUTILUX

Pole Mounted Decorative Lighting (Full Cut-Off Site Lighting)

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 250W & above) - Ballast housing is cast from low copper (4556, < 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 cell E.P.D.M. gasket.

Mounting - When pendant mounted, the fixture housing is connected to the mounting arm by the TruLevel swivel which is internally welded to the housing and allows for future 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 coatings 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-B/1/RAL6005

MODEL	LAMP/BALLAST MODE	OPTICS	MOUNTING	FINISH	OPTIONS
DSCP25	STANDARD MAGNETIC BALLAST 120V 175W 150V 100V 100V 347V CAN 480V 480V 100LED ¹ 120LED ¹	TYPE I I HR-I TYPE I II HR-II TYPE IV HR-IV FORWARD THROW (HORIZONTAL BEAM) HR-FT-HSC TYPE V SQUARE HR-V-SQ	ARM MOUNT 24180 3120 490	STANDARD TEXTURED FINISH BLACK RAL-9005-T WHITE RAL-9003-T GREY RAL-7004-T DARK BRONZE RAL-8019-T GREEN RAL-6005-T	CONVEX GLASS LENS - DG CLEAR CONVEX LENS - AC/IRC CLEAR CONVEX LENS - POLYCARBONATE (TRIMMED) - CP OPAL CONVEX LENS - AC/IRC OPAL CONVEX LENS - POLYCARBONATE (TRIMMED) - WP 3/4" IPS SEM MOUNT AND SWIVEL CANOPY CHAM MOUNTED CHAM MOUNTED PHOTO CELL - VOLTAGE (EXAMPLE PC120V) - PC-IV SINGLE FUSE (120V, 277V) - SF DOUBLE FUSE (200V, 240V) - DF
DSCP1	STANDARD MAGNETIC BALLAST 120V 150V 100V 100V 347V CAN 480V 480V 100LED ¹ 80LED ¹	TYPE I I HR-I TYPE I II HR-II TYPE IV HR-IV FORWARD THROW (HORIZONTAL BEAM) HR-FT-HSC TYPE V SQUARE HR-V-SQ	ARM MOUNT 24180 3120 490	STANDARD TEXTURED FINISH BLACK RAL-9005-T WHITE RAL-9003-T GREY RAL-7004-T DARK BRONZE RAL-8019-T GREEN RAL-6005-T	CONVEX GLASS LENS - DG CLEAR CONVEX LENS - AC/IRC CLEAR CONVEX LENS - POLYCARBONATE (TRIMMED) - CP OPAL CONVEX LENS - AC/IRC OPAL CONVEX LENS - POLYCARBONATE (TRIMMED) - WP 3/4" IPS SEM MOUNT AND SWIVEL CANOPY CHAM MOUNTED CHAM MOUNTED PHOTO CELL - VOLTAGE (EXAMPLE PC120V) - PC-IV SINGLE FUSE (120V, 277V) - SF DOUBLE FUSE (200V, 240V) - DF
DSTP1	LED ELECTRONIC 120V 150V 100V 100V 347V CAN 480V 480V 100LED ¹ 80LED ¹	TYPE I I HR-I TYPE I II HR-II TYPE IV HR-IV FORWARD THROW (HORIZONTAL BEAM) HR-FT-HSC TYPE V SQUARE HR-V-SQ	ARM MOUNT 24180 3120 490	STANDARD TEXTURED FINISH BLACK RAL-9005-T WHITE RAL-9003-T GREY RAL-7004-T DARK BRONZE RAL-8019-T GREEN RAL-6005-T	CONVEX GLASS LENS - DG CLEAR CONVEX LENS - AC/IRC CLEAR CONVEX LENS - POLYCARBONATE (TRIMMED) - CP OPAL CONVEX LENS - AC/IRC OPAL CONVEX LENS - POLYCARBONATE (TRIMMED) - WP 3/4" IPS SEM MOUNT AND SWIVEL CANOPY CHAM MOUNTED CHAM MOUNTED PHOTO CELL - VOLTAGE (EXAMPLE PC120V) - PC-IV SINGLE FUSE (120V, 277V) - SF DOUBLE FUSE (200V, 240V) - DF

FOR BALLASTS FROM REMOTE SUPPLY ** (EXAMPLE RAL-9005)
FOR BALLASTS FROM OTHER BALLAST COMPATIBLE SUPPLIERS AND/OR OPTIONS
COURTESY OF FACTORY FOR OTHER BALLAST COMPATIBLE SUPPLIERS AND/OR OPTIONS