

EXHIBIT 13

LIGHTING CUTS

The project will provide the following site lighting as well as benefitting from new shared lighting being installed on the south side of Lot 3 as part of the Motherhouse project. Refer to the Site Lighting and Lighting Calculations Plans Plans E 1.0 and E2.0 for lighting locations and photometrics. The light fixtures are consistent with the Motherhouse and will continue to be used for continuity throughout the future senior campus.

1. Light Fixtures- Two (2) 12-foot residential scale LED fixtures, with 90 degree cutoff shields are proposed. (Mozart Series by US Architectural Lighting® & Sun Valley Lighting®.)
2. Bollard Lights – The new main sidewalk from Stevens Avenue to Building -1 which will serve as a future major pedestrian access into the future Lot 4 campus will include 8 bollard LED lights for night time safety and provide a low level illumination accent into the site. (BRA6 series by US Architectural Lighting®.)
3. The main entry will utilize recessed ceiling LED lights by Fail Safe®.
4. The garage door and rear door will be provided with down lit LED wall lights by Lumark®.
5. The rear patio seating will house recessed low level wall lights by Targetti®.

Lighting cuts are attached.

There will be no lighting spillover into Baxter Woods based on the photometrics of Plan E2.0.

Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
942 WASHINGTON STREET BATH, MAINE 04530
TEL (207) 443-5447
bartlettdesigninc@comcast.net

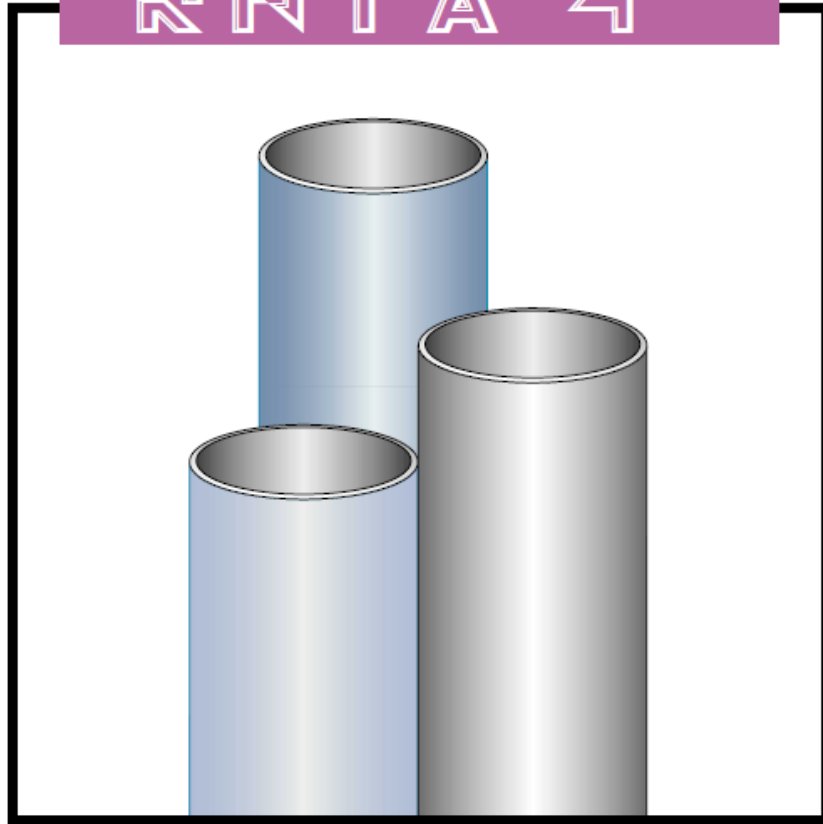
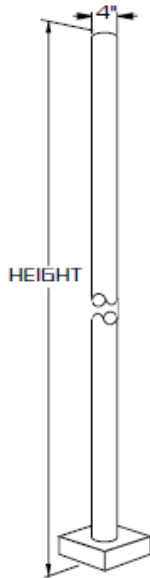
605 Stevens Avenue
Portland, Maine

August 11, 2017

PROPOSED SITE LIGHTING FIXTURES

TYPE S3

RNTA 4"



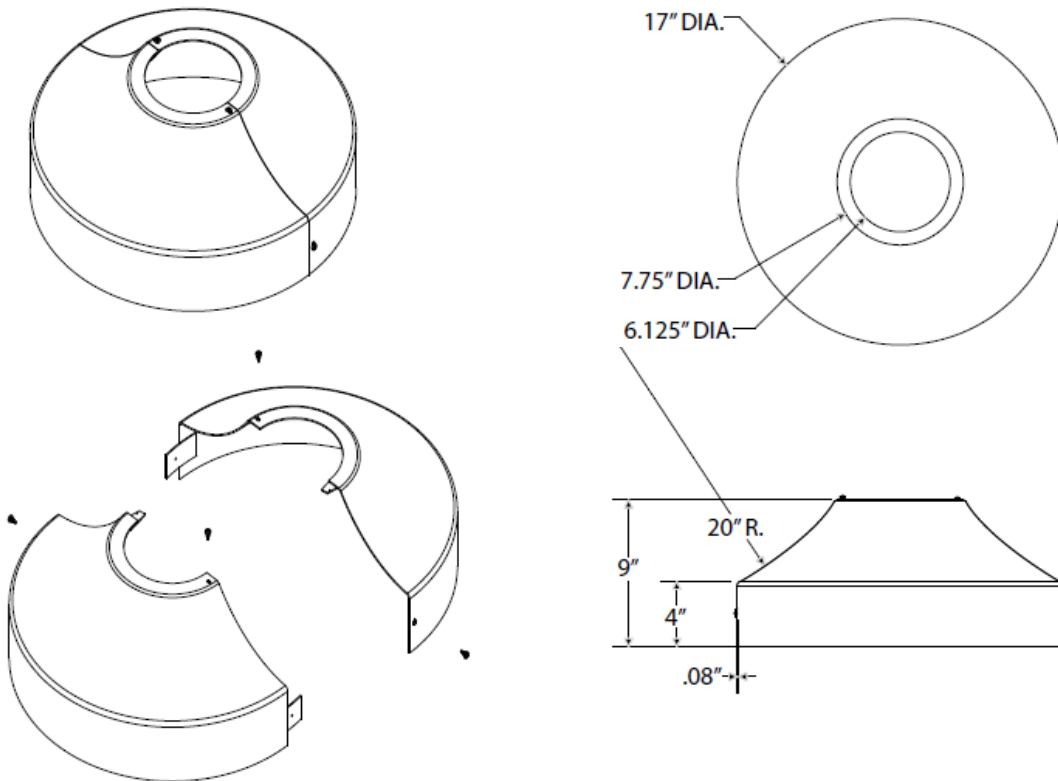
4" ROUND STRAIGHT ALUMINUM

SPECIFICATIONS

- SHAFT:** 4" DIAMETER, EXTRUDED FROM 6063 ALLOY ALUMINUM TUBING. HEAT TREATED TO PRODUCE A T6 TEMPER. SHAFT INCLUDES A PERIPHERALLY REINFORCED HAND HOLE FURNISHED WITH COVER. SHAFT IS FURNISHED WITH GROUND LUG LOCATED ON CAST ALUMINUM BASE PLATE.
- BASE PLATE:** CAST ALUMINUM CONSTRUCTED OF A-356 ALUMINUM ALLOY HEAT TREATED TO PRODUCE A T6 TEMPER. STRUCTURALLY ENGINEERED BASE INCLUDES EIGHT HEAVY WALL REINFORCING VERTICAL GUSSETS. BASE TELESCOPES AND IS CIRCUMFERENTIALLY WELDED TO SHAFT AT BOTH THE OUTSIDE TOP AND INSIDE BOTTOM OF THE BASE.
- ANCHORAGE:** [4] ANCHOR BOLTS FABRICATED FROM HOT ROLLED STEEL BAR. MINIMUM YIELD STRENGTH OF 50,000 P.S.I. BOLTS HAVE "L" BEND ON ONE END AND ARE THREADED ON THE OTHER END. BOLTS ARE FULLY GALVANIZED AND ARE FURNISHED WITH TWO NUTS AND TWO WASHERS.
- BASE COVER:** FABRICATED FROM HEAVY WALL ALUMINUM CONSTRUCTION. TWO PIECE COVER ENTIRELY CONCEALS BASE.
- FINISH:** POLYESTER POWDER COAT-STATE OF THE ART 20 PSI PRESSURE POWER WASH AT 140° TEMPERATURE INCORPORATES FOUR STEP IRON PHOSPHATE PROCESS TO CLEANSE AND PRETREAT THE METAL SURFACE FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED TEXTURED POLYESTER POWDER TOPCOAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

TYPE S3

MODEL NO. :	POLES	MOUNTING	FINISH																																					
R N T A	<table border="1"> <thead> <tr> <th></th> <th>POLE HEIGHT</th> <th>WALL THICKNESS</th> <th>BOLT CIRCLE</th> <th>ANCHORAGE</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 84-125</td> <td>8'</td> <td>.125</td> <td>10 1/4"</td> <td>3/4"X18"X3"</td> </tr> <tr> <td><input type="checkbox"/> 104-125</td> <td>10'</td> <td>.125</td> <td>10 1/4"</td> <td>3/4"X18"X3"</td> </tr> <tr> <td><input type="checkbox"/> 124-125</td> <td>12'</td> <td>.125</td> <td>10 1/4"</td> <td>3/4"X18"X3"</td> </tr> <tr> <td><input type="checkbox"/> 144-125</td> <td>14'</td> <td>.125</td> <td>10 1/4"</td> <td>3/4"X18"X3"</td> </tr> </tbody> </table>		POLE HEIGHT	WALL THICKNESS	BOLT CIRCLE	ANCHORAGE	<input type="checkbox"/> 84-125	8'	.125	10 1/4"	3/4"X18"X3"	<input type="checkbox"/> 104-125	10'	.125	10 1/4"	3/4"X18"X3"	<input type="checkbox"/> 124-125	12'	.125	10 1/4"	3/4"X18"X3"	<input type="checkbox"/> 144-125	14'	.125	10 1/4"	3/4"X18"X3"	<input type="checkbox"/> 2 3/8"X4" TENON PT23 <input type="checkbox"/> 2 7/8"X4" TENON PT27 <input type="checkbox"/> OTHER TENON MT ____ <p style="text-align: center;">DRILL MOUNT</p> <table border="0"> <tr> <td><input type="checkbox"/> 1.....</td> <td><input type="checkbox"/> 3-90</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> 2-180</td> <td><input type="checkbox"/> 4-90</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> 2-90</td> <td><input type="checkbox"/> 3-120</td> <td></td> <td></td> </tr> </table> <p>2-90, 3-90, 4-90 REQUIRES PT27 AND T490 ADAPTER</p> <p>3-120 REQUIRES PT27 AND T3120 ADAPTER</p>	<input type="checkbox"/> 1.....	<input type="checkbox"/> 3-90			<input type="checkbox"/> 2-180	<input type="checkbox"/> 4-90			<input type="checkbox"/> 2-90	<input type="checkbox"/> 3-120			<p>STANDARD SMOOTH FINISH</p> <input type="checkbox"/> BLACK RAL-9005-S <input type="checkbox"/> WHITE RAL-9003-S <input type="checkbox"/> GREY RAL-7004-S <input type="checkbox"/> DRK BRONZE RAL-9019-S <input type="checkbox"/> GREEN RAL-6005-S <p>OPTION:</p> <input type="checkbox"/> BRONZE ANODIZED AZ313 <input type="checkbox"/> NATURAL ANODIZED AZ <input type="checkbox"/> BLACK ANODIZED AZBK <p style="font-size: small;">FOR TEXTURED FINISH REPLACE SUFFIX "S" WITH "T" (EXAMPLE: RAL-9005-T) CONSULT FACTORY FOR CUSTOM COLORS</p>
		POLE HEIGHT	WALL THICKNESS	BOLT CIRCLE	ANCHORAGE																																			
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POLE BASE COVER

TYPE S3

SOLID STATE AREA LIGHTING

MOZART SERIES-LED

SPECIFICATIONS

FIXTURE HOUSING

One piece unitized precise heavy wall cast aluminum construction comprised of low copper (< 0.2% Cu) aluminum. Hood is fastened to the Housing with a stainless steel hinge and secured with a tool-less stainless steel latch 180° opposite the hinge. Housing and Hood is sealed with an extruded closed cell silicone gasket. Driver/wiring access through top of Mounting Hub. Hub accommodates a 2 7/8" x 3" tenon. All exposed hardware is stainless steel.

LED OPTICAL MODULE

Low copper A356 alloy (< 0.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Reflector-Prism injection molded from H12 acrylic. Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates a Reflector-Prism over each emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

LED EMITTERS

High output LED's are utilized with drive currents ranging from 350mA to 700mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277, 50/60hz, or 347-480V 50/60hz and utilizes 0-10v dimming. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Surge protector supplied for field installation at the most conveniently serviceable location.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

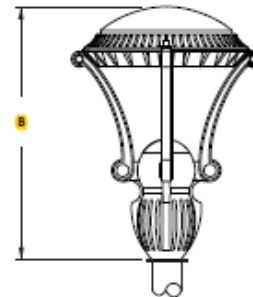
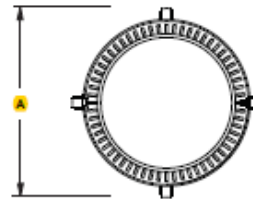
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FIXTURE TYPE: _____



MOZ-LED













PATENT PENDING



Fitter supplied to fit over 2 7/8" X 3"
(73mm X 76mm) tenon.

FIXTURE	A	B
MOZ	26" 660mm	34.5" 876mm
MOZM	20" 508mm	26.5" 673mm

TYPE S3

LUMINAIRE	OPTICS	LED		MOUNTING	FINISH	OPTIONS	
<p>LUMINAIRE</p> <p><input type="checkbox"/> MOZ-LED</p>	<p>VLED* IES DISTRIBUTION TYPE</p> <p><input type="checkbox"/> TYPE II VLED - II </p> <p><input type="checkbox"/> TYPE II VLED - III </p> <p><input type="checkbox"/> TYPE IV VLED - IV </p> <p><input type="checkbox"/> TYPE V-SQ VL ED- V-SQ </p>	<p># of LED'S</p> <p>MOZ</p> <p><input type="checkbox"/> 120LED</p> <p><input type="checkbox"/> 100LED</p> <p><input type="checkbox"/> 80LED</p> <p><input type="checkbox"/> 64LED</p> <p><input type="checkbox"/> 48LED</p>	<p>DRIVE CURRENT</p> <p><input type="checkbox"/> 350mA</p> <p><input type="checkbox"/> 525mA¹</p> <p><input type="checkbox"/> 700mA²</p> <p>NOTE: 1 - 80LED, 64LED & 48LED Only 2 - 64LED & 48LED Only</p>	<p>COLOR TEMP-CCT</p> <p><input type="checkbox"/> NW (4000K) * STANDARD</p> <p><input type="checkbox"/> CW (5000K)</p> <p><input type="checkbox"/> WW (3000K)</p> <p>OTHER LED COLORS AVAILABLE CONSULT FACTORY</p> <p>VOLTAGE</p> <p><input type="checkbox"/> 120</p> <p><input type="checkbox"/> 208</p> <p><input type="checkbox"/> 240</p> <p><input type="checkbox"/> 277</p> <p><input type="checkbox"/> 347</p> <p><input type="checkbox"/> 480</p>	<p>ARM MOUNT</p> <p><input type="checkbox"/> XXX/1 (TYP.) </p> <p><input type="checkbox"/> XXX/2-180 (TYP.) </p> <p><input type="checkbox"/> XXX/2-90 (TYP.) </p> <p><input type="checkbox"/> XXX/3-90 (TYP.) </p> <p><input type="checkbox"/> XXX/3-120 (TYP.) </p> <p><input type="checkbox"/> XXX/4-90 (TYP.) </p> <p>(XXX = Arm Model # Ex = XBW-2-180/RAL-9005-T)</p> <p>POST TOP MOUNT (STANDARD 2" x 3" TENON)</p> <p><input type="checkbox"/> PT </p> <p>WALL MOUNT</p> <p><input type="checkbox"/> WM </p>	<p>STANDARD TEXTURED FINISH</p> <p><input type="checkbox"/> BLACK RAL-9005-T</p> <p><input type="checkbox"/> WHITE RAL-9003-T</p> <p><input type="checkbox"/> GREY RAL-7004-T</p> <p><input type="checkbox"/> DARK BRONZE RAL-8019-T</p> <p><input type="checkbox"/> GREEN RAL-6005-T</p> <p>FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S)</p> <p>SEE USALTG.COM FOR ADDITIONAL COLORS</p>	<p><input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY (ANSI C136.41) TPR7</p> <p><input type="checkbox"/> INTERNAL HOUSE SIDE SHIELDS. HS-VVLED</p> <p><input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR. HLSW</p> <p><input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) PC+V</p> <p><input type="checkbox"/> TWIST LOCK PHOTOCELL +VOLTAGE TPC+V</p> <p><input type="checkbox"/> TWIST LOCK PHOTOCELL RECEPTACLE ONLY TPR</p> <p>CONTACT FACTORY FOR STEP DIM MOTION SENSOR (PROGRAMMED 50/100)</p>
<p><input type="checkbox"/> MOZM-LED</p>		<p>MOZM</p> <p><input type="checkbox"/> 80LED</p> <p><input type="checkbox"/> 64LED</p> <p><input type="checkbox"/> 48LED</p>					

TYPE S6

Lumark

DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K and 4000K CCT.

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

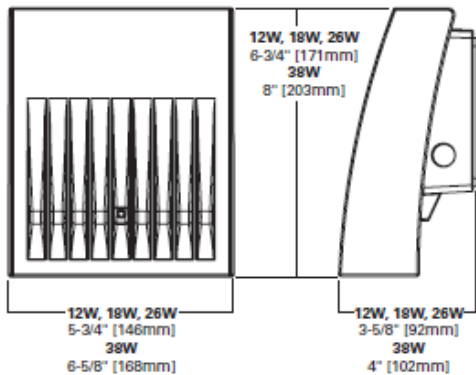
Five-year warranty.



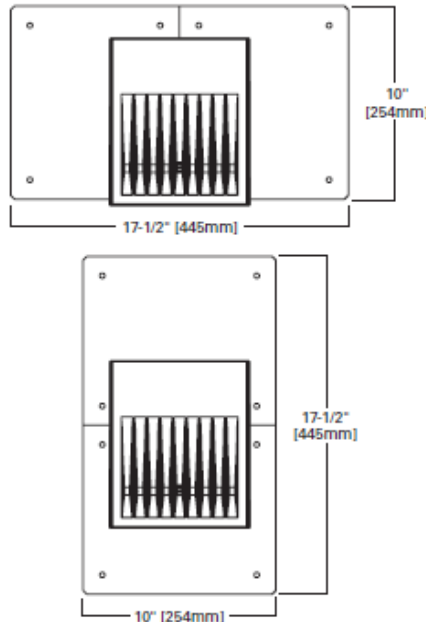
**XTOR
CROSSTOUR LED**

- APPLICATIONS:**
 WALL / SURFACE
 POST / BOLLARD
 LOW LEVEL
 FLOODLIGHT
 INVERTED
 SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

- UL/cUL Wet Location Listed
- LM79 / LM80 Compliant
- ROHS Compliant
- ADA Compliant
- NOM Compliant Models
- IP66 Ingressed Protection Rated
- Title 24 Compliant

TECHNICAL DATA

- 40°C Maximum Ambient Temperature
- External Supply Wiring 90°C Minimum

EPA

- Effective Projected Area (Sq. Ft.):
 XTOR1B, XTOR2B, XTOR2B-0.34
 XTOR4B-0.45

SHIPPING DATA:

- Approximate Net Weight:
 3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

605 Stevens Avenue Portland, Maine

TYPE S6

Series	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1B –Small Door, 12W XTOR2B –Small Door, 18W XTOR3B –Small Door, 26W XTOR4B –Medium Door, 38W	[Blank] –Bright White (Standard), 5000K W –Neutral White, 4000K	[Blank] –Carbon Bronze (Standard) WT –Summit White BK –Black BZ –Bronze AP –Grey GM –Graphite Metallic	PC1 –Photocontrol 120V ¹ PC2 –Photocontrol 208-277V ^{1,2} 347V –347V ³ HA –50°C High Ambient ³	WG/XTOR –Wire Guard ⁴ XTORFLD-KNC –Knuckle Floodlight Kit ⁵ XTORFLD-TRN –Trunnion Floodlight Kit ⁵ XTORFLD-KNC-WT –Knuckle Floodlight Kit, Summit White ⁵ XTORFLD-TRN-WT –Trunnion Floodlight Kit, Summit White ⁵ EWP/XTOR –Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT –Escutcheon Wall Plate, Summit White

LED Information	XTOR1B	XTOR1B-W	XTOR2B	XTOR2B-W	XTOR3B	XTOR3B-W	XTOR4B	XTOR4B-W
Delivered Lumens (Wall Mount)	1,418	1,396	2,135	2,103	2,751	2,710	4,269	4,205
Delivered Lumens (With Flood Accessory Kit) ¹	1,005	990	1,485	1,472	2,099	2,068	3,168	3,121
B.U.G. Rating ²	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G0	B2-U0-G0
CCT (Kelvin)	5,000	4,000	5,000	4,000	5,000	4,000	5,000	4,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	18W	18W	26W	26W	38W	38W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

TYPE S7

Fail-Safe

DESCRIPTION

The 11" round LED provides exceptional aesthetics with impressive strength and is available in 10, 15, 20, or 25 watt lumen packages. Polycarbonate lens, clear or opal, combined with four face plates provides a choice of different styles. Also, choose a photo control or motion sensor for control. Choose an emergency battery pack to provide egress illumination.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Housing

Shallow casting is die-cast aluminum. Backplate constructed of 16 gauge aluminum.

Face Plate Finish

Injection-molded polycarbonate color is matte black standard, matte white painted, or bronze painted. Border paint option is a premium baked-on finish. For custom colors, provide manufacturer paint number, RAL number or color chip.

Shallow Casting Finish

Polyester powder-coat paint applied in a five-stage process, 2.0 mil thickness, and baked on at 400° F. Finish is TGIC, textured, theroset, polyester powder-coat.

Mounting

Surface, ceiling or wall. Interior or exterior.

Gasket

Die-cut closed-cell silicone gasket seals lens to casting. Gasket is secured with adhesive, and locked in place to the back casting. When the casting is not required, the gasket is mechanically attached to the back plate. One gasket seals the fixture.

Lens

One-piece, injection-molded opal or clear polycarbonate, 0.125" thick. Attached with 4 recessed T20 stainless-steel TORX®-head fasteners.

Lens Lifetime Warranty.

Decorative Faces

High-impact, injection molded, 0.125" minimum thickness, polycarbonate overlay attached to lens with two recessed T20 stainless steel TORX®-head fasteners. Eyelid offers optimal lamp shielding. Open face is lens for continuous radial light pattern. Border face utilizes the standard open lens with paint on the border, eliminating backlit halo effect.

Electrical

LED driver is mounted to the backpan for optimal thermal management. High efficiency LED mounted to circuit board. 70% lumen maintenance at 50,000 hours when operated in an environment as noted on the Maximum Ambient Operating/Option Matrix on the following page.

Labels

UL/cUL listed for wet locations, ceiling or wall mount. IP65 rated. Available to mount on combustible or non-combustible surfaces.



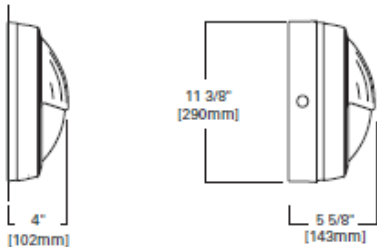
TR 11 LED

LD4 LED

11" Round
10/15/20/25 Watt
High Abuse
Polycarbonate
Lens Lifetime Warranty

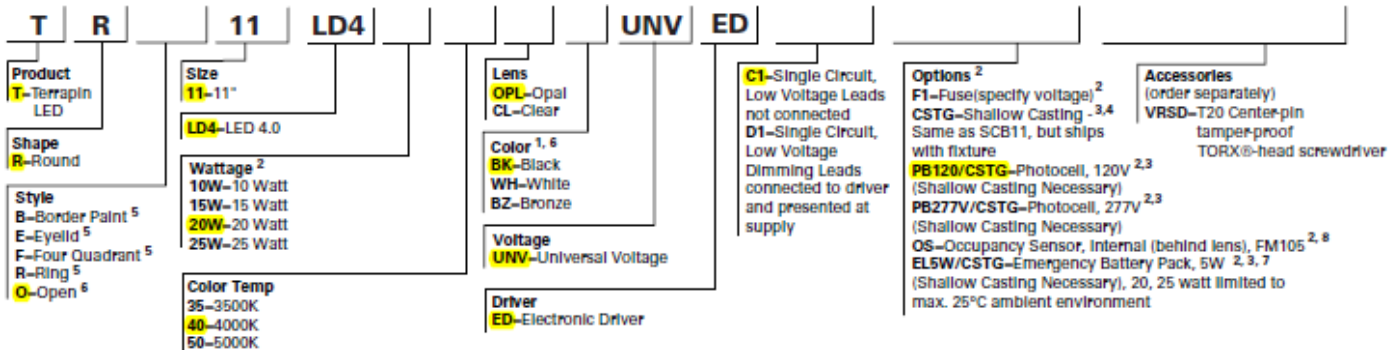
CEILING/WALL
INTERIOR/EXTERIOR

MOUNTING



FLAT

SHALLOW CASTING (CSTG)



TYPE S8

SOLID STATE BOLLARDS

BRA SERIES-LED

SPECIFICATIONS

BOLLARD

Durable corrosion resistant extruded and cast aluminum construction. 1/4" wall thickness.

LED POWER ARRAY™

Three-dimensional array consisting of 6 individual LED tubes for the BDA8 model and 4 individual LED tubes for the BDA6 model, which are 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 LED's which is fastened to a radial aluminum heat sink. A white polycarbonate lens and end caps protect each LED tube's internal components and provides diffusion to prevent shadowing and striations.

INTERNAL LOUVER (IL) - A specular louver stack conceals the inner LED Power Array Module and provides uplight and glare control through the external clear polycarbonate lens.

CAST LOUVER (CL) - External cast aluminum louver stack protects the internal LED Power Array Module and provides uplight and glare control. An internal clear polycarbonate lens is integrated with the LED Power Array Module.

OPAL LENS (WP) - Exterior white polycarbonate lens protects the internal LED Power Array Module and provides a uniform white glow.

RADIAL LED MODULE

LED'S are mounted to a circular heatsink in a radial array. The radial LED module is concealed in the cap of the bollard. LED's are not directly visible from angles above 90°.

PARABOLIC REFLECTOR (TR) - A specular Parabolic Reflector reflects a portion of the distribution from the radial LED module and provides a uniform wide angle throw through the outer clear polycarbonate lens.

LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for (347-480VAC). Driver is mechanically fastened to a retaining bracket. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimmable and High-Low Driver options available.

FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME: _____

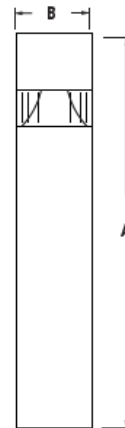
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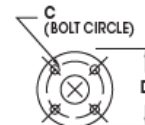
BRA

BRA8 SHOWN WITH -TR OPTICS

PATENT PENC



INTERNAL LOUVER SUPPLIED WITH CLEAR POLYCARBONATE LENS



BOLLARD	A	B	C	D
BRA8	42' 1067mm	8' 203mm	6' 152mm	8' 203mm
BRA6	42' 1067mm	6' 152mm	4' 102mm	6' 152mm

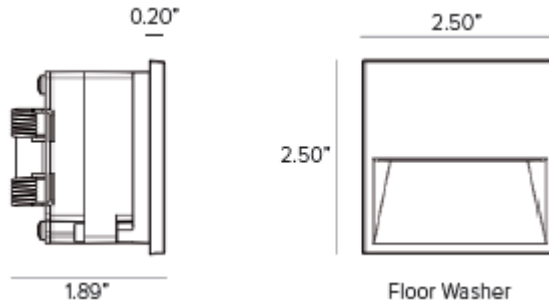
TYPE S8

BOLLARD	OPTICS	LED	MOUNTING	FINISH	OPTIONS	
<input type="checkbox"/> BRA8-LED <input type="checkbox"/> BRA6-LED	VERTICAL POWER ARRAY <input type="checkbox"/> INTERNAL LOUVER IL <input type="checkbox"/> CAST LOUVER CL <input type="checkbox"/> OPAL POLYCARBONATE WP*	# of LEDs <input type="checkbox"/> 36LED ¹ (42 Watts) <input type="checkbox"/> 24LED (28 Watts)	COLOR <input type="checkbox"/> NW (4000K) Standard <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) OTHER LED COLORS AVAILABLE. CONSULT FACTORY	<input type="checkbox"/> GROUND INSTALLATION (STANDARD) <input type="checkbox"/> WALL MOUNT WM	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S) SEE USALTG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> DIMMABLE DRIVER (0-10V PROVIDED) DIM <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR HLSW <input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD. . . . HS <input type="checkbox"/> DUPLEX RECEPTACLE DUP <input type="checkbox"/> GROUND FAULT RECEPTACLE GFI <input type="checkbox"/> 10KV SURGE PROTECTOR 10SP <input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only) 20SP OPTIONAL HEIGHTS: <input type="checkbox"/> 30" <input type="checkbox"/> 36"
	RADIAL LED MODULE <input type="checkbox"/> PARABOLIC REFLECTOR TR	<input type="checkbox"/> 18LED ¹ (21 Watts) <input type="checkbox"/> 12LED ² (15 Watts)	VOLTAGE <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480			

NOTES:
 1 - AVAILABLE IN BRA8 ONLY.
 2 - AVAILABLE IN BRA6 ONLY.

*WP OPTICS USE OPAL POLYCARBONATE LENS

TYPE S9



Housing: Small 2.5" x 2.5" faceplate available in 3 emission options (Floor Washer, Louvre, or Bi-Emission Floor Washer + Halo) available in 13 standard finishes.

Materials: Die-cast anodised aluminium body fitted with a spring fixing system. Powder coated die-cast anodized aluminum external frame.

Optics: It is available as three frames for three distinct lighting effects.

Floor Washer: A steplight with uniform optical distribution on the floor and excellent visual comfort.

Louvre: High visual comfort with the source entirely hidden from view producing defined light on the floor from two precise louvre windows.

Bi-Emission: The floor washer optics combined with an indirect glow where the halo effect becomes a uniformly illuminated marker light with an opal diffuser.

Mounting: To be completed with stainless steel mounting/wiring back box with multiple attachment and wire conduit options to meet specific installation needs. Custom designed spring mounting system. Recommended mounting height is +18" A.F.F. on 48" center spacing to meet egress requirements of 1fc minimum.

Installation: Pre-cabled with 10' Belden 18ga 2 conductor direct burial cable.

Power Supply: Remote Class II 120V-277VAC to 24VDC power supply, up to 15 fixtures on one Class II 96W Power Supply circuit. Phase or 0-10v dimming options also available, see page 2 for LED driver options.

Wattage: 5.4W

Color Temperature: 3000K and 4000K standard

CRI: 84

Voltage: 24VDC

IP Rating: IP66

Certifications: UL Listed class 2 wet location
Low voltage landscape lighting
Tested in accordance with LM-79-08

PRODUCT CODE	DRIVER	FACEPLATE	FINISH		WATTAGE	COLOR TEMP	CRI	VOLTAGE
ZES – ZEDGE Small Step Light	RP – Remote Power	FW – Floor Washer LV – Louvre BE – Bi-Emission Floor Washer + Halo	FE – Ferrite Grey DB – Deep Black WH – Plaster White HB – Heritage Brown SI – Silver CO – Copper	GO – Gold PG – Pink Gold BO – Bone BR – Brick OL – Olive RO – Rose SA – Saphire	L1 – 5.4W	30 – 3000K 40 – 4000K	84 – 84 CRI	24 – 24VDC

605 Stevens Avenue Portland, Maine

TYPE S9

Power Supplies	Type	Max Fixtures Per Driver	Wattage	Voltage	Dimmability	Listing	Dimensions
DEL-X-120-1-4-24	Electronic Power Supply in NEMA3R Enclosure	15	96W / 1X4A**	90-305V AC / 24V DC	Non-Dimmable	cULus	12"W X 12"L 4"D*
DEL-X-240-2-4-24		30 <i>two rows of 15ea</i>	192W / 2X4A**				
DEL-X-320-3-4-24		45 <i>three rows of 15ea</i>	288W / 3x4A**				
DEL-LPF-25-24'	Electronic Stand-alone IP67 <i>(Listed Enclosure Provided by Others)</i>	4	25W / 1x1A**		UR Class II	2.67"W X 9.66"L 1.53"D	
DEL-120-1-4-24'	Electronic Stand-alone <i>(Listed Enclosure Provided by Others)</i>	15	96W / 1X4A**				
DEL-X-120-1-4-24-D	Electronic Power Supply in NEMA3R Enclosure	15	96W / 1X4A**		Integral 0-10V Dimming Interface	cULus	12"W X 12"L 4"D*
DEL-X-240-2-4-24-D		30 <i>two rows of 15ea</i>	192W / 2X4A**				
DEL-X-320-3-4-24-D		45 <i>three rows of 15ea</i>	288W / 3x4A**				



Enclosure with Electronic Driver