

January 7, 2019

Revised January 16, 2019

This submission is for amendments proposed for the:

Certificate of Appropriateness from the Historic Commission

Site Plan approval from Planning Board dated June 17, 2016

Regarding: Gawith Hall, Skinner Hall, The Boiler House at the former Clarke School for the Deaf.

By Thomas Douglas Architects and the owners of the property, Historic Round Hill Summit LLC.

We would like to review a number of proposed changes designed for these structures. They are:

1. Exterior lighting: New locations and fixtures for Gawith, Skinner, and the Boiler House. According to conditions set forth by the Planning Board at our June 2016 hearing, we were told that all lights on the site had to be turned off at 9:00 pm and our building mounted wall sconces could be activated with motion sensors thereafter. My plans indicated only pole lights around the property and pole lights were not allowed to be turned on with motion sensors.

Therefore, I needed to add a source of light that could safely light the sidewalks and exits surrounding the building and be activated by motion sensors. Because there are exits and sidewalks on every perimeter wall, we added wall sconces on all perimeter walls. These lights are mounted to electrical boxes which are recessed into the brick walls. The only other option was to run surface mounted conduit on the brick and mount the lights to surface mounted electrical boxes. The existing building has surface mounted conduit powering high pressure sodium flood lights. This was removed and the wiring is installed within the interior walls.

We have 3 different types of lights:

W4 lights are mounted high on the existing and new walls. They will wash down the façade lighting the architecture and the walkway below. They have a deeply recessed led lamp (full cut-off) and will cast light directly downward. We include photos of 2 similar lights on historic buildings we renovated- examples #1 and #2. Example #1 received historic tax credits from the Mass. Historic. Commission and these lights were approved however the fixture does not have a lamp that is recessed as far as our proposed fixture. Example #3 is a new building in town and is included because it is readily viewable and very similar to our proposed fixture. This building has lights that shine upward and downward and is a slightly larger cylinder. Our proposed light fixture is limited only to downlight and has dimensions of 4 15/16" diameter by 8 1/4" tall.

We will have a sample installed prior to the public hearing.

This fixture has a BUG rating of B1-U0-G0. The acronym, "BUG" (Backlight, Uplight, and Glare) was developed by the [Illuminating Engineering Society \(IES\)](#) and [The International Dark Sky Association](#) in order to calculate the light escaping in unwanted directions from an outdoor light fixture.

This rating shows that there is a backlight component for this fixture but no up light. A 0 (zero) glare rating states that the light contained within a 60-degree angle towards the ground is less than 660 lumens. Please see the attached description of the BUG rating calculation system.

W2 lights are mounted low at the exits and have a higher brightness to illuminate these exit paths. We will have a sample installed prior to the public hearing.

This fixture has a BUG rating of B0-U0-G0

W6 lights are decorative lights for the roof deck (at the new addition) and will be manually switched when the roof deck is in use. These lights were not indicated on the June 2016 drawings since they are set far back from the roof edge, would be intermittently used for specific office events, and have low lumen levels.

2. Revisions to the building addition: Architectural changes to the style of the building addition required by the National Park Service and Mass Historic Commission.
At the time of our submission the City of Northampton, I was assured by our historic consultant that the design for our addition to Gawith was going to be approved by Mass. Historic. Unfortunately, 1 year later, Mass. Historic rejected the design and specifically asked that the addition be brick clad, have a lower roof line, and have a mansard-like roof. The design included in this amendment reflects these changes that Mass. Historic has since approved. Please see the attached correspondence from Mass. Historic.
3. Revisions to locations of ground mounted HVAC systems.
Please see attached drawings for Gawith ground mounted HVAC systems with fence and landscaping.
4. Revision added 1/16/19: Existing accessible ramp on the Round Hill facing (east) facade. After discussions with the building inspector, we decided to keep this ramp. This allows the building to maintain 2 accessible means of egress.



The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

April 10, 2017

Peter Picknelly
Historic Round Hill Summit, LLC
c/o OPAL Real Estate Group
1776 Main Street
Springfield, MA 01102

RE: Massachusetts Rehabilitation Tax Credit Application, Gawith Hall, 46 Round Hill Road,
Northampton, MA; MHC# HRC.589

Dear Mr. Picknelly:

The Massachusetts Historical Commission (MHC) has reviewed your application for the Massachusetts Rehabilitation Tax Credit and amendment to the proposed work for the above referenced property.

Regrettably, the MHC is unable to assign second certification (830 CMR 68.38R.1(4)(b)) and allocate credit to your project (830 CMR 63.38R.1(3)(c)) at this time because the application is incomplete and the proposed project does not meet the Secretary of the Interior's Standards for the Rehabilitation of Historic Properties (830 CMR 63.38R.1(5)(b) and (f)) as presented. Specifically, the proposal violates Standards 2 and 9.

Standard 2 states the following:

"The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided."

Standard 9 states the following:

"New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment."

The proposed project amendment includes the change in use from residential units to office space. The proposed project amendment includes the reconfiguration of the interior space from a double-loaded corridor with multiple doorways leading to rooms to an open floor plan to accommodate an open concept work space. Gawith Hall was built as a dormitory and would have historically had a double loaded corridor in the original 1880s portion of the building. Although the building has been modified, the floor plan still retains a corridor. Modification of the historic circulation pattern does not meet the Standards (Standard 2). The sense of space is completely changed when the circulation pattern is changed to an open concept. The MHC recommends that the proposed floorplan retain a double-loaded corridor. Guidance on

this issue can be found in the National Park Service *Preservation Tech Notes: Historic Interior Spaces, Number 1, Preserving Historic Corridors in Open Office Plans*. The MHC recommends using a half wall with glass on top of the wall to give a sense of a corridor while allowing an open feeling to the space.

The proposed project amendment includes the demolition of the 1960 rear portion of the building and the construction of a new addition. In addition to the demolition of the 1960 addition, proposed project plans indicate that a significant portion of the north west wall of the 1880s original building would need to be modified, including the removal of historic brick walls and windows, to accommodate a new addition. Demolition of a portion of the northwest wall of the 1880s original building does not meet the Standards (Standard 10). The MHC recommends exploring modifications to the existing northwest wall of the 1880s building that would retain the window fenestration pattern and meets the programming needs of the future tenant. Additionally, the new addition proposed does not meet the Standards (Standard 9). The proposed design and building materials is not compatible with the historic building.

The MHC also requests the following information with respect to the Part 2 amendment you submitted:

- Clarification on interior finishes. The previously approved project application included the retention of the historic window trim including panels below the window to be retained. Please clarify the treatment of interior finishes now that the project proposes office space instead of residential units.
- Clarification on fireplaces. The previously approved project application stated there would be six fireplaces retained. The current proposal indicates "a couple" fireplaces will be retained.
- Clarification on any proposed structural upgrades. The proposed floorplan drawings submitted with the application amendment illustrate some structural reinforcement. It is unclear what type of reinforcement is needed and if steel will be introduced to the building to provide structural reinforcement.

We encourage you to reapply in the next application cycle. Please note that the MHC will require the following updated information to supplement your application: newly completed application form cover pages for Part 1 and Part 2, updated letters of support, an updated estimated project budget which includes a new pro forma detailing overall project costs and qualified rehabilitation expenditures, and any additional information with which the existing application may be supplemented. Please be as detailed as possible in your application about the above referenced items. The next application deadline is May 1, 2017.

Sincerely,



Brona Simon
Executive Director
State Historic Preservation Officer
Massachusetts Historical Commission

xc: Doug Kelleher, Epsilon Associates
Jo Ellen Hensley, National Park Service



United States Department of the Interior

NATIONAL PARK SERVICE

1849 C Street, N.W.
Washington, D.C. 20240

IN REPLY REFER TO:

May 11, 2017

Peter Picknelly
Historic Round Hill Summit LLC
1776 Main Street
Springfield, MA 01102

PROPERTY: (Historic Round Hill Summit) Gawith Hall, 46 Round Hill Road, Northampton, MA
PROJECT NUMBER: 28236
APPLICATION: Part 2 Amendment – Additional Information
DECISION: Review on hold

Dear Mr. Picknelly:

The National Park Service has reviewed the above-referenced additional information, received on April 20, 2017 for the above-referenced project. The project received conditional certification for the original proposal to convert the building to residential use on April 21, 2015. An amendment was submitted on January 31, 2017 to change the use of the building to office use. This change in use has resulted in some major design changes that do not currently meet the *Secretary of the Interior's Standards* and we are unable to provide certification of the proposal as submitted. Please be aware that this building is part of a functionally-related complex and, as such, the work completed on this building must meet the *Standards* in order for the other buildings in the complex to be eligible for the tax credit. As a result, we have placed the review on hold to provide you the opportunity to revise the proposal to bring it into conformance with the Standards. The issues that need to be addressed include the following:

1. **Interior Floor Plan** – The proposed open office layout is a dramatic change from the building's original layout along central corridors. Although the residential proposal was a change from the building's original layout because of its subdivision of space, it still retained a sense of corridors leading off the central hall. The plan must not be totally open as proposed. This is not compatible with the interior of a building of this architectural character. Corridors, even if they are somewhat truncated, must be retained. An open concept may be accomplished using partially solid walls with glazing above.
2. **Rear Wall of the Original Building** – The rear wall between the original building and the 1960 addition contains original window openings. The current proposal calls for removing large portions of the brick and the windows in this original brick wall to connect to the new glazed connector on the first and second floors. The size of the openings should be reduced to the width of the existing window openings or at least reduce the opening size of some of the connections. Some of the windows in this wall should be retained as well.
3. **New Addition** – The design of the new addition must be revised to be more compatible with the materials and form of the historic building. Specifically, the material should be brick, rather than the proposed fiber-cement panels; the walls must be rectilinear, not angled; the roof must be revised and

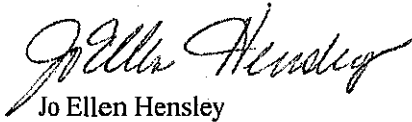
lowered to the height of the dormers on the new addition and not have the prominent gable. If the peak was removed, it could appear to be a more compatible mansard roof with a flat front. The only gable on the historic building is limited to one bay over the entrance. A small gable could possibly be used over the new entrance. The current design is not subordinate to the historic building.

Please provide revisions to the design for our consideration **directly** to this office at Tax Incentives Program, Technical Preservation Services, National Park Service, 1849 C Street, NW, Mail Stop 7243, Washington, D.C. 20240, with a copy to the State Historic Preservation Office (SHPO), **within 30 days** of the date of this letter. If the information is not received in that time, the file will be closed and work undertaken on the structure will not qualify as a "certified rehabilitation" for purposes of the Tax Reform Act of 1986.

Requests for extensions of the hold period must be made in writing. Upon receipt of the requested information, a new 30-day review period will begin.

Thank you for your attention to this request. If you have any questions, please call me at 202-354-2026.

Sincerely,



Jo Ellen Hensley
Technical Preservation Services

cc: MA SHPO
Doug Kelleher, Epsilon Associates, Inc., 3 Mill & Main Place, Suite 250, Maynard, MA 01754



UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

OMB Approved
No. 1024-0009
Form 10-168
Rev. 2014

MAR 06 2018
NATIONAL PARK SERVICE
TAX INCENTIVE PROGRAM

**HISTORIC PRESERVATION CERTIFICATION APPLICATION
AMENDMENT / ADVISORY DETERMINATION**

NPS Project Number
28236

Instructions: This page must bear the applicant's original signature and must be dated.

1. **Property name** Gawith Hall
Property address 46 Round Hill Road, Northampton, MA

2. This form includes additional information requested by NPS for an application currently on hold.
 updates applicant or contact information.
 amends a previously submitted Part 1 Part 2 Part 3 application.
 requests an advisory determination that phase _____ of _____ phases of this rehabilitation project meets the Secretary of the Interior's Standards for Rehabilitation. Phase completion date _____
 Estimated rehabilitation costs of phase (QRE) _____

Summarize information here; continue on following page if necessary.

This Part 2 Amendment is submitted in response to comments provided by the National Park Service in its May 11, 2017 letter. Specifically, the enclosed revised project plans respond to the NPS comments regarding the interior floor plan, treatment of the rear wall of the original building, and the design of the new addition. See attached plans and narratives for additional information.

3. **Project Contact** (if different from applicant)
 Name Doug Kelleher Company Epsilon Associates, Inc.
 Street 3 Clock Tower Place, Suite 250 City Maynard State MA
 Zip 01754-2574 Telephone (978) 793-0084 Email Address dkelleher@epsilonassociates.com

4. **Applicant**
 I hereby attest that the information I have provided is, to the best of my knowledge, correct. I further attest that [check one or both boxes, as applicable] (1) I am the owner of the above-described property within the meaning of "owner" set forth in 36 CFR § 67.2 (2011), and/or (2) if I am not the fee simple owner of the above-described property, the fee simple owner is aware of the action I am taking relative to this application and has no objection, as noted in a written statement from the owner, a copy of which (i) either is attached to this application form and incorporated herein, or has been previously submitted, and (ii) meets the requirements of 36 CFR § 67.3(a)(1) (2011). For purposes of this attestation, the singular shall include the plural wherever appropriate. I understand that knowing and willful falsification of factual representations in this application may subject me to fines and imprisonment under 18 U.S.C. § 1001 which, under certain circumstances, provides for imprisonment of up to 8 years.

Name Peter Picknelly Signature [Signature] Date 2/26/18
 Applicant Entity Historic Round Hill Summit, LLC SSN _____ or TIN 46-0886429
 Street 1776 Main Street City Springfield State MA
 Zip 01103-1026 Telephone (413) 726-9825 Email Address peter@peterpanbus.com
 Applicant, SSN, or TIN has changed since previously submitted application.

NPS Official Use Only

The National Park Service has reviewed this amendment to the Historic Preservation Certification Application and has determined that the amendment:

- meets the Secretary of the Interior's Standards for Rehabilitation.
 will meet the Secretary of the Interior's Standard for Rehabilitation if the attached conditions are met.
 does not meet the Secretary of the Interior's Standards for Rehabilitation.
 updates the information on file and does not affect the certification.

Advisory Determinations:

- The National Park Service has determined that the work completed in this phase is consistent with the Secretary of the Interior's Standards for Rehabilitation. This determination is advisory only. A formal certification of rehabilitation can be issued only after all rehabilitation work and any associated site work or new construction have been completed. This approval could be superseded if it is found that the overall rehabilitation does not meet the Secretary's Standards. A copy of this form will be provided to the Internal Revenue Service.

Date 3/26/2018

[Signature]
National Park Service Authorized Signature

NPS conditions or comments attached



Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Catalog Number:
303-W1-LEDB2-2700-UNV-T4-DIM10-XX
Notes:

Type:
W2
CTCT18-200393

Lumière

DESCRIPTION

The Lumière Eon LED 303-W1-LEDB2 is a compact, low profile, dimmable LED direct/indirect luminaire. The luminaire features full vertical adjustment (180°) for easy aiming and mounts directly to any wall or ceiling surface over a standard 4" square junction box. It is standard with a universal input LED driver (120 - 277V, 50/60 Hz). Dimming is achieved with a standard ELV, reverse phase dimming driver or an optional 0-10V dimming driver. 303-W1-LEDB2 may be used indoors or outdoors and carries an IP66 rating.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Head and back plate are precision machined from corrosion-resistant 6061-T6 aluminum. A universal mounting plate and one piece silicone key hole gasket is provided for adaption to junction box or surface. Stainless steel hardware is included.

Mounting

The luminaire mounts directly to a standard 4" square junction box. For further mounting information see technical notes section on page 2.

Optical

LightBAR™ and optical assembly are sealed by a diffused, impact resistant tempered glass lens. The optical assembly is available in three distributions: T2 (lateral

throw), T4 (forward throw) and T5X (Extra Wide Flood). Available in several color temperatures: 2700K, 3000K, 3500K, 4000K and TSAM (Amber). Both color temperature and distribution must be specified when ordering – see catalog logic for details. An edge-lit option is available.

Electrical

The 15.5W 303-W1-LEDB2 is standard with an ELV trailing edge phase dimmable driver that accepts a universal input (120-277, 50/60Hz). It will operate in -40°C to 50°C [-40°F to 122°F]. The driver incorporates surge protection. An optional 0-10V dimming driver is also available.

Finish

The luminaires are double protected by a RoHS compliant chemical film undercoating and polyester

powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available. RAL and custom color matches available upon request. Luminaires can also be brushed with a clear coat finish. The LightBAR™ cover plates are standard white and may be specified to match finish of luminaire housing (LCF).

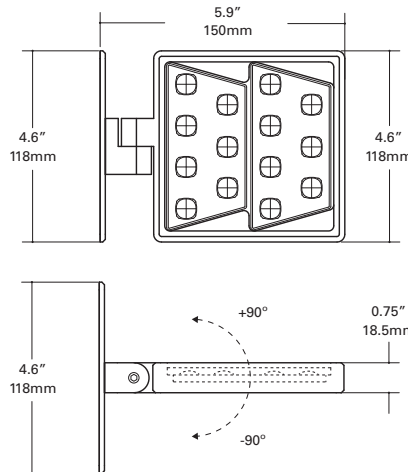
Warranty

Lumière warrants the EON series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.



303-W1-LEDB2
EON LED

APPLICATIONS:
CEILING / WALL MOUNT
DIRECT
INDIRECT



The BUG ratings on the 2 exterior light types are as follows:
W2 Lumière B0-U0-G0
W4 DMF B1-U0-G0

CERTIFICATION DATA
UL and cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
IP66 Ingressed Protection Rated

TECHNICAL DATA
35°C Maximum Temperature Rating
External Supply Wiring 90°C Minimum



ORDERING INFORMATION

**** Advise ****

Sample Number: 303-W1-LEDB2-2700-UNV-T2-DIM10-BK-EDGE-LCF

Series ⁴	Color Temperature	Input Voltage	Optics	Dimming	Finish ¹	Options ^{2,3}
303-W1-LEDB2 Head contains two (2) Mini LightBAR™	2700=2700K 3000=3000K 3500=3500K 4000=4000K TSAM =Turtle Safe Amber (585-595nm)	UNV=Universal 120-277, 50/60Hz	T2=Type II, Lateral Throw T4=Type IV, Forward Throw T5X=Type V, Extra Wide Flood	DIMELV=Trailing Edge Phase DIM10=0-10V Dimming	Painted BK=Black BZ=Bronze CS=City Silver WT=White Premium Finish BA=Brushed NSS=Solid Stainless Steel	EDGE=Edge lit glass lens LCF=LightBAR cover plate matches housing finish

NOTES: 1 Custom and RAL color matching available upon request. Consult factory for further information. 2 Add suffix in the order shown. 3 LCF option not available when WT (white) finish is selected. 4 DesignLights Consortium™ Qualified and classified for DLC Standard. Refer to www.designlights.org for details on exact qualified EON 303-W1-LEDB2 product as not all configurations are DLC classified.



TD514008EN
March 15, 2016



Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Catalog Number:
303-W1-LEDB2-2700-UNV-T4-DIM10-XX
Notes:

Type:
W2
CTCT18-200393

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	TM-21 Reported L70(10k) (Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 60,000	365,000
40°C			
50°C			

CURRENT DRAW

Model	Line Voltage	Current Draw
303-W1-LEDB2	120-277V, 50/60Hz	0.13A

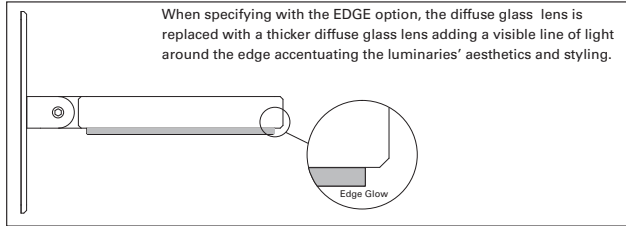
LUMENS - CRI/CCT TABLE

Optic Type	Distribution	Watts	Delivered Lumens	LPW	CCT (K) / Color	CRI nom. / Wavelength
T2 (Lateral Throw)		15.5	691	44	2700	95
			1148	73	3000	75
			802	51	3500	85
			1265	81	4000	75
		12.1	351	29	TSAM (Amber)	585-595nm
T4 (Forward Throw)		15.5	647	42	2700	95
			1075	69	3000	75
			752	48	3500	85
			1185	76	4000	75
		12.1	329	27	TSAM (Amber)	585-595nm
T5X (Extra Wide Flood)		15.5	778	50	2700	95
			1293	83	3000	75
			904	58	3500	85
			1425	91	4000	75
				12.1	396	33

NOTES: 1 When the LCF option is selected use a lumen multiplier of .85

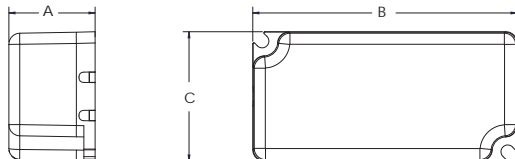
OPTIONS

Edge



TECHNICAL NOTES

- Junction box size and depth is important when specifying product. Recommended junction boxes include 2-1/8" deep, 4" square weld/drawn Crouse Hinds part numbers TP403, TP434, TP494, TP196, TP395 or equivalent. Use with included universal mounting plate or with Crouse-Hinds part number TP480 or equivalent cover with similar fixture mounting locations.
- The universal wall plate provided with all EON wall mount fixtures can be used with an outdoor rated two gang 30.5 cubic inch capacity outlet box. Cooper Crouse-Hinds part numbers TP7086 – TP7122 or equivalent. The universal mounting plate will attach with four (4) 6-32 pan head/flat stainless steel screws (not provided).
- Driver can be remote mounted in a junction box a max distance of 25 feet (voltage drop needs to be considered) or placed in the junction box behind the luminaire.
- When specifying with the EDGE option, the diffused glass becomes thicker adding a visible line of light around the edge accentuating the luminaries' aesthetics and styling.
- If Luminaire will not be dimmed, the Luminaire must be ordered with DIMELV option, but does not have to be dimmed.
- Driver Dimensions:



Luminaire Type	Dimming Type	Driver Dimensions in [mm]		
		A	B	C
303-W1-LEDB2	DIMELV	.98 [25.0]	3.36 [85.3]	1.49 [37.9]
	DIM10	1.18 [30.0]	3.49 [88.6]	1.64 [41.6]



Eaton
18001 East Colfax Avenue
Aurora, CO 80011
P: 303-393-1522
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD514008EN
March 15, 2016

**Job Name:**

Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Notes: XX - SPECIFY STD FINISH

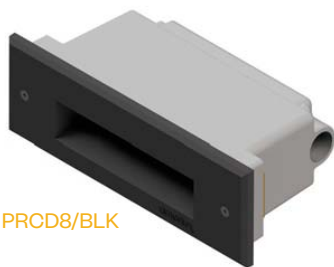
CTCT18-200393

Passo RT

8" Directional LED Steplight

**Features**

The Passo family of luminaires includes high quality, architecturally relevant fixtures suitable for use in both outdoor or indoor applications. All members of the Passo family feature an independently sealed optical chamber and fully potted driver. These features are especially beneficial in exterior applications as they help compensate for the challenges in getting a good seal between a pre-installed back box and the faceplate as well as those challenges in fully sealing the conduit system. Each luminaire is available in a choice of two output levels to help tailor the desired illuminance to the project and a standard 0-10v dimmable driver allows even further flexibility.



PRCD8/BLK

Product Overview

Wattage:	Up to 6W
Lumen Output:	Up to 278 lm
Color Temp:	2,700K / 3,000K / 4,000K / AMBER
Dimming:	0-10v down to 10%

PROJECT:**TYPE:****Application:**

Designed for new construction in brick, poured concrete, and hollow walls.

Construction:

- Electrical grade PVC housing
- Internal optical chamber
- Cast aluminum faceplate
- 1/8" Tempered frosted Solite lens

Driver:

- Drive Current (100, 175 or 350mA)
- 2.5kv surge protection
- Fully potted
- Input voltage 120v-277v auto-sensing
- 0-10v dimmable down to 10%

ETL listed, suitable for wet locations.**Optics:**

Individually sealed optical chamber with neoprene gasket insures LEDs are secure independent of the installation of the back box.

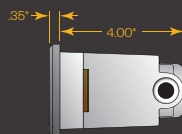
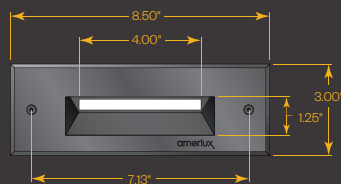
Amber option:

PRCD8-AL: 150mW
PRCD8-AH: 383.3mW

Finish:

Premium quality thermoset polyester powdercoated faceplate for a durable finish.

ANT - Anthracite Gray BLK - Satin Black
CLB - Classic Bronze SLV - Silver



Profile

WALL LIGHT AT NEW RAMP



Job Name:

Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Notes:

CTCT18-200393

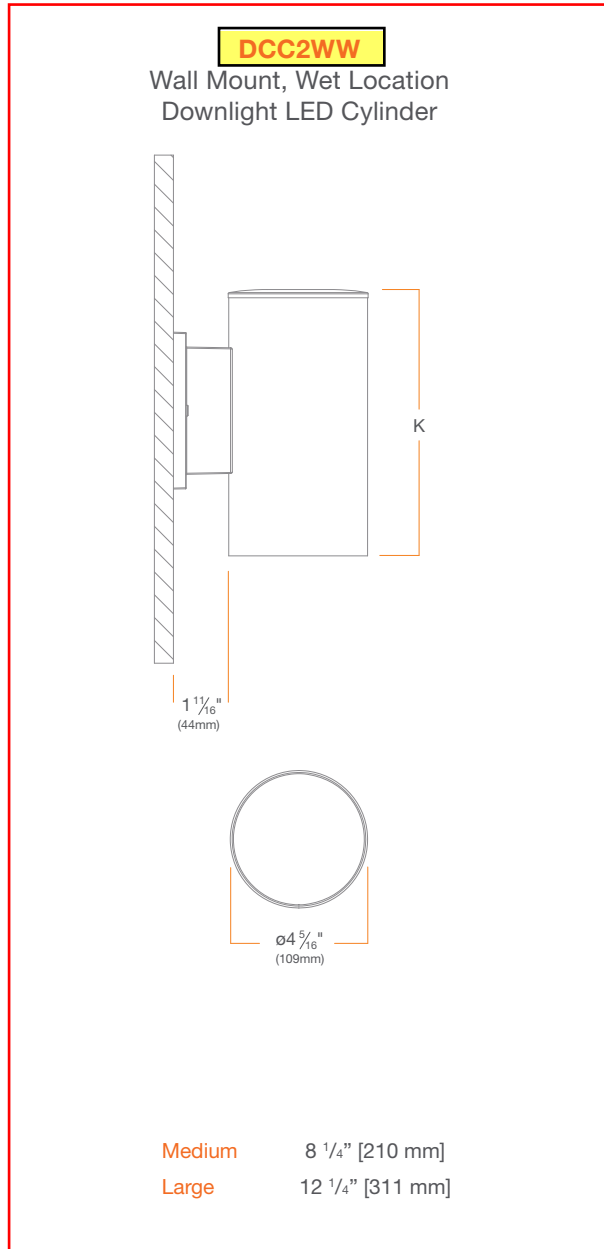


DCC2

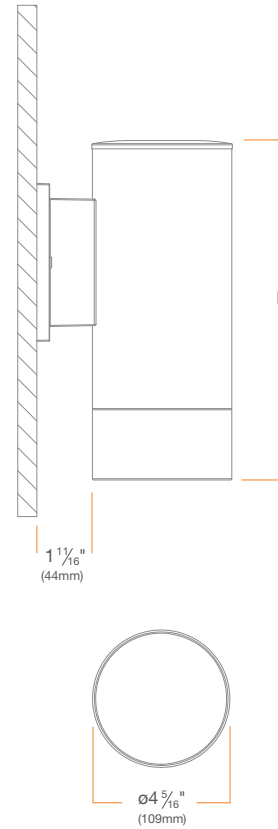
LED Cylinder

Surface, Cord, Stem, Wall Mount

LUMINAIRE DIMENSIONS



DCC2WW + DCC2X-DFT
Wall Mount, Wet Location Downlight
LED Cylinder with Decorative Frosted Trim



**The BUG ratings on the 2 exterior light types
are as follows:
W2 Lumiere B0-U0-G0
W4 DMF B1-U0-G0**



**Job Name:**Checkwriters
Architect: Thomas Douglas Architects
(Northampton)**Catalog Number:**
DC22WWM1027BZ

Notes:

Type:**W4**

CTCT18-200393

**DCC2****LED Cylinder**

Surface, Cord, Stem, Wall Mount

PRODUCT SELECTION GUIDE (750LM, 1000LM, 1500LM, 2000LM)**LUMINAIRE** (Product Code Example: **DCC2 + SW + S + 07 + 27 + WH = DCC2SWS0727WH**)

PRODUCT CODE	MOUNT & CYLINDER	SIZE	LUMENS	CCT	FINISH	DRIVER
DCC2 Cylinder	SW Surface Mount, Wet	S Small	07 750 lm	27 2700K	WH White	[Blank] TRIAC/ELV
	CM Cord Mount ¹	M Medium	10 1000 lm	30 3000K	BK Black	O 0-10V <i>Only applicable for medium or large size</i>
	TM Stem Mount ¹	L Large	15 1500 lm <i>Only available in large size, 0-10V or Lutron driver</i>	35 3500K	BZ Bronze	C Lutron LDE1 ⁴ <i>Only applicable for medium or large size</i>
	TW Stem Mount, Wet ¹		20 2000 lm <i>Only available in large size, 0-10V or Lutron driver</i>	40 4000K	BA Brushed Aluminum	W Lutron L3DA3W ⁵ <i>Only applicable for medium or large size</i>
	WM Wall Mount ² <i>Only available in medium or large size</i>		77 750 lm up/down <i>Only applicable for large wall mounts</i>		CC Custom Color	TE TRIAC/ELV, Remote Inverter
	WW Wall Mount, Wet ³ <i>Only available in medium or large size</i>		11 1000 lm up/down <i>Only applicable for large wall mounts</i>			OE 0-10V, Remote Inverter <i>Only applicable for medium or large size</i>
			71 750/1000 lm up/down <i>Only applicable for large wall mounts</i>			CE Lutron LDE1 ⁴ , Remote Inverter <i>Only applicable for medium or large size</i>
						WE Lutron L3DA3W ⁵ , Remote Inverter <i>Only applicable for medium or large size</i>

ACCESSORIES

DCC2X-CCM	Custom Length Cord Mount (up to 96") ¹
DCC2X-CTM	Custom Length Stem Mount (up to 96") ¹
DCC2X-DFT	Decorative Frosted Trim, Closed Bottom

¹ 24" standard length; Use Custom Order Form to specify custom length; Minimum ten (10) piece order² Compatible with most one-gang switch boxes³ Compatible with most two-gang switch, 3" octagonal, 3" round, 4" round and 4" square boxes⁴ Lutron LDE1 Dimming refers to Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black⁵ Lutron L3DAE Dimming refers to Lutron Hi-lume 1% 3-wire LED driver

**Job Name:**Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Notes:

W4

CTCT18-200393

**DCC2**

LED Cylinder

Surface, Cord, Stem, Wall Mount

LIGHT ENGINE OVERVIEW

	DCC2xxx07	DCC2xxx10	DCC2xxx77	DCC2xxx11	DCC2xxx71	DCC2xxx15	DCC2xxx20
Total Module Lumen Output (lm)	750	1000	750 / 750	1000 / 1000	750 / 1000	1500	2000
Total Rated Power (W)	11.8	14.7	11.8 / 11.8	14.7 / 14.7	11.8 / 14.7	19.5	29.0
Efficacy (lm/W)	64	68	64	68	66	77	69
Color Rendering Index	93+					90+	
CCT Options	2700K, 3000K, 3500K, 4000K						
Optics (Beam Angle)	Flood (88°)						
Binning	2-step SDCM						
Lifetime (L70)	50,000 hours						
Max Ambient Operating Temperature	40°C						
Input Voltage (V)	120/277V, 50/60Hz						
Input Current at 120V (Max)	0.10A	0.13A	0.20A	0.26A	0.23A	0.26A	0.37A
Input Current at 277V (Max)	0.04A	0.05A	0.08A	0.11A	0.10A	0.12A	0.16A
Power Factor	>0.9						
Total Harmonic Distortion	<20%						
Dimming	100% - 5%						



Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Notes:

CTCT18-200393



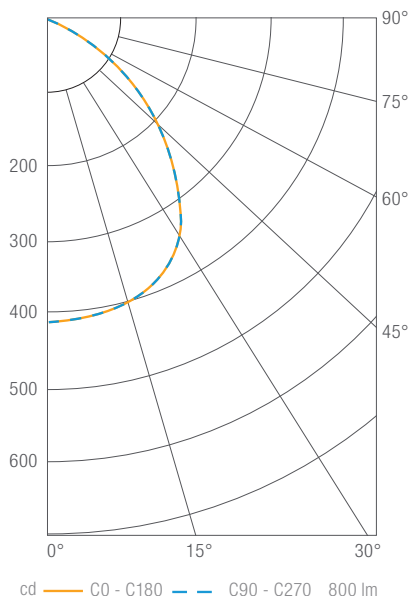
DCC2

LED Cylinder

Surface, Cord, Stem, Wall Mount

PHOTOMETRICS

Luminaire: **DCC2CMM0730WH** (Cord Mount, Medium, 750 lm, 93 CRI, 3000K, White)



Luminous Intensity

Gamma	C 0°
0°	413
5°	411
10°	407
15°	401
20°	392
25°	378
30°	354
35°	315
40°	261
45°	195
50°	131
55°	86
60°	57
65°	37
70°	20
75°	10
80°	5
85°	2
90°	0

Values in candela

Zonal Lumen Summary

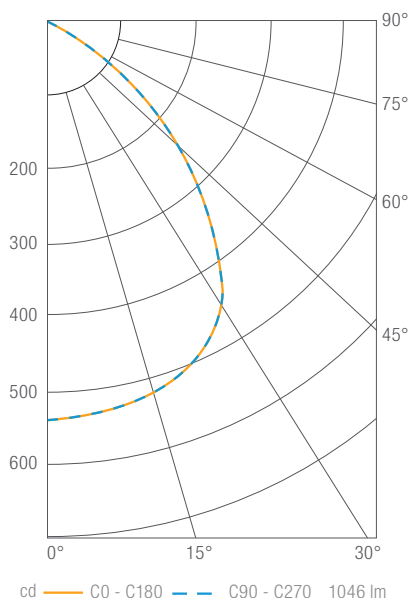
Zone	Lumens	Luminaire %
0-30	326	41
0-40	521	65
0-60	750	94
0-90	800	100
0-180	800	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
2.5'	66	4.9'
5.0'	17	9.7'
7.5'	7	14.5'
9.0'	5	17.4'

Beam Angle: 88°

Luminaire: **DCC2CMM1030WH** (Cord Mount, Medium, 1000 lm, 93 CRI, 3000K, White)



Luminous Intensity

Gamma	C 0°
0°	540
5°	537
10°	532
15°	523
20°	510
25°	492
30°	461
35°	411
40°	342
45°	256
50°	172
55°	113
60°	74
65°	48
70°	27
75°	13
80°	6
85°	2
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	425	41
0-40	679	65
0-60	980	94
0-90	1046	100
0-180	1046	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
2.5'	86	4.9'
5.0'	22	9.7'
7.5'	10	14.6'
9.0'	7	17.5'

Beam Angle: 88°

**Job Name:**Checkwriters
Architect: Thomas Douglas Architects
(Northampton)**Catalog Number:**
DC22WWM1027BZ

Notes:

Type:**W4**

CTCT18-200393

**DCC2****LED Cylinder**

Surface, Cord, Stem, Wall Mount

DIMMER COMPATIBILITY

Recommended Phase-control Dimmers (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load DCC2xxx07	Max Load DCC2xxx10
Control 4	Control 4	C4-APD120	10	9
Cooper	Decorator	DLC03P, DAL06P	25	20
Legrand	Adorne	ADTP703TU	35	30
Lutron	Caseta	PD-6WCL	12	10
	CL Series	AYCL-153, CTCL-153, DVCL-153, LGCL-513, SCL-153, TGCL-513	12	10
	CL Series	AYCL-253, DVCL-253	20	15
	Grafik Eye 3000	QSGR-3P	30	25
	Grafik Sys / Homeworks	RPM-4A	25	20
	Grafik Sys / Homeworks	RPM-4U	30	25
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	12	10
	Maestro Wireless	MRF2-6ELV, MRF2-6CL	12	10
Radio RA	RRD-6NA, RRD-6CL, RRD-6D	12	10	

Compatible Phase-control Dimmers¹ (Dims down to 20% nominal measured light output)

Brand	Series	Model Number	Max Load DCC2xxx07	Max Load DCC2xxx10
Cooper	Slide	SLC03P, SAL06P	25	20
Legrand	Harmony	H703PTU, HCL453P	30	25
Leviton	IllumaTech Slide	IPE04	25	20
	SureSlide	6621, 6674	10	10
Lutron	Diva	DV-600	12	10
	Maestro	MA-600	12	9
	Maestro ELV	MAELV-600, MSCELV-600	35	30
	Maestro Wireless	MRF2-6ND	12	10
	Power Booster	PHPM-PA, PHPM-WBX	25	20
	Sunrise	SR400RPC120, ZP260QEW	20	15
Watt Stopper	Digital Light Management	LMRC-221	160	150
	Dimming Sensor	PW-100D	14	12

¹ Dimmer compatibility reflects performance compatibility only. Please reference your local codes for application.

**Job Name:**Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

3-728-15-27K

Notes:

W5

CTCT18-200393

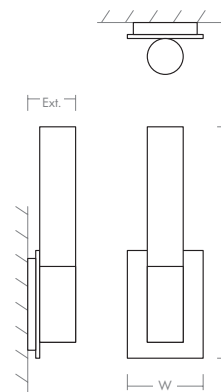
MAGNETA Outdoor**120v : 3-728-xx****277v : 37-728-xx****oxygen**

FIXTURE TYPE _____ LOCATION _____

PROJECT _____ DATE _____

**-15 Black****-16 Gray****-22 Oiled Bronze****LIGHT SOURCE** 1 x 11.9W LED, 3000K, CRI 90**LUMINAIRE POWER** 15.5W at 120V**RATED LIFE** 60000 hr RL**OPTIONAL COLOR TEMPERATURES** **2700K**, 3500K, 4000K**LUMEN OUTPUT** Delivered: 735 lm (LM-79)**INPUT VOLTAGE** 120V or 277V**DRIVER OUTPUT** 350 mA, 12W**DIMMING** 0-10v & Phase (ELV) Dimming - 50/60Hz 100% to 10% Dimming**CONSTRUCTION** Cast Aluminium and Glass**DIFFUSER** - White Opal Glass**FINISHES** **Black (-15)**, Gray (-16), Oiled Bronze (-22)**MOUNTING** 4" Octagonal J-Box
(Installer must provide a bead of caulk between fixture housing and mounting surface)**STANDARDS** ETL Wet, ADA compliant, Conforms to UL STD 1598, Certified CAN/CSA, STD C22.2 No 250.0.

Order example for standard fixture:

3-728-22 (x- Voltage - xxx-Sequence # - xx-Finish)**3: 120v**, 37: 277vOrder example for optional color temperatures: **3-728-2722****27: 2700K**, 35: 3500K, 40: 4000K**DIMENSIONS****W:** 4.75"**H:** 14.36"**Ext:** 3.00"**M.C:** 10.98" From top of fixture

201 Railhead Road, Fort Worth, TX 76106 - Tel. (877) 607-0202

SCONCE

**Job Name:**Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

3-719-27K

Notes:

W6

CTCT18-200393

REGIO Outdoor (Wall / Ceiling)**oxygen****120v: 3-719-xx****277v: 37-719-xx**

FIXTURE TYPE _____

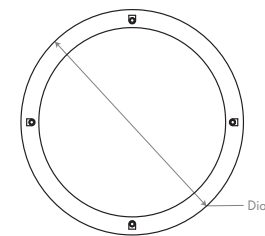
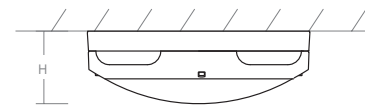
LOCATION _____

PROJECT _____

DATE _____

**-15 Black****-16 Gray****LIGHT SOURCE** 2 x 10.1W LED, 3000K, CRI 90**LUMINAIRE POWER** 26.0W at 120V**RATED LIFE** 60000 hr RL**OPTIONAL COLOR TEMPERATURES** 2700K, 3500K, 4000K**LUMEN OUTPUT** Delivered: 676 lm (LM-79)**INPUT VOLTAGE** 120V or 277V**DRIVER OUTPUT** 2 x 350 mA, 12W**DIMMING** 0-10v & Phase (ELV) Dimming - 50/60Hz 100% to 10% Dimming**CONSTRUCTION** Cast Aluminium and Polycarbonate**DIFFUSER** - Polished White Polycarbonate**FINISHES** **Black (-15)**, Gray (-16)**MOUNTING** 4" Octagonal J-Box
(Installer must provide a bead of caulk between fixture housing and mounting surface)**STANDARDS** ETL Wet, Conforms to UL STD 1598, Certified CAN/CSA, STD C22.2 No 250.0.

Order example for standard fixture:

3-719-15 (x- Voltage - xxx-Sequence # - xx-Finish)**3: 120v,** **37: 277v**Order example for optional color temperatures: **3-719-2715****27: 2700K,** **35: 3500K,** **40: 4000K****DIMENSIONS****Dia.:** 13.00"**H:** 4.30"**M.C:** 6.50" From top of fixture**CEILING OF EXISTING GAWITH PORCHES**



Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Catalog Number:
1004-A1-RCS-RW-LED2790-W-XX-
L1-UNV-RSM
Notes: Advise standard finish

Type:
F1
CTCT18-200393

DESCRIPTION

Lanterra 1004-A1 (one head) is a 4.25" O.D., line voltage Accent Flood light with dimmable LED. It is available with adjustable rear center swivel with lock rotation providing 180 degree tilt and 340 degree rotation. The luminaire comes with various mounting, field replaceable optics and premium color tuning option. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

SPECIFICATION FEATURES

Material
Housing, hood and mounting stem are precision-machined from corrosion resistant billet stock 6061-T6 aluminum.

Finish
Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS compliant chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

Hood
Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in the straight up position. The flush lens design reduces fixture length, minimizes debris collection and prevents water and mineral stains from collecting on the lens.

Gasket
Housing and hood are sealed with a high

temperature silicone O-ring gasket to prevent water intrusion.

Lens
Tempered glass lens, factory sealed with high temperature silicone O-ring to prevent water intrusion and breakage due to thermal shock.

Hardware
Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical
Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Leading Edge Dimming), ELV (Trailing Edge Dimming) and 0-10V dimming to deliver optical performance. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. Light can be dimmed from 100-1% while maintaining constant CCT. LED's are available in 2700K, 3000K, 3500K at 90CRI and 97CRI, 4000K at 80CRI and 97CRI, 5000K at 80CRI and are industry leading high output with 87% lumen maintenance at 60,000hrs.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

Lumiere

Compliance
Components are UL recognized and luminaires are cULus listed for 50°C ambient environments unless noted otherwise, wet location listed, and ROHS compliant. IP66 Rated.

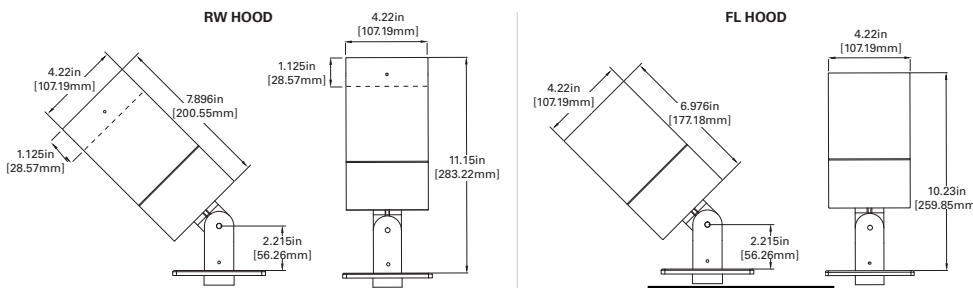
LED Color Tuning Module
Color tuning modules mix five colors of LED's to deliver tunable and dimmable white light at 90+ CRI and color consistency across a tuning range of 1650-4000K. Light can be dimmed from 100-1% while maintaining constant CCT. Compatible with 0-10V wired control. Offered in Bluetooth, remote controlled and warm dim color module.

Warranty
Lumiere warrants the Lanterra series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.



Lanterra 1004

**LED
INTERIOR / EXTERIOR
ACCENT FLOOD LIGHT
CERTIFICATION DATA**
cULus - 1598
Wet Location Listed - IP66
LM79/LM80 Compliant
ROHS Compliant
10W LED, L70/102,000 @ 25° Celcius
20W LED, L70/102,000 @ 25° Celcius
30W LED, L70/102,000 @ 25° Celcius



**** Advise Finish ****

ORDERING INFORMATION

SERIES	NUMBER OF HEADS	KNUCKLE STYLE	HOOD	LED CCT & CRI	FIELD REPLACEABLE OPTIC	FINISH	LIGHT LEVEL	VOLTAGE	MOUNTING	OPTIONS
1004	A1 1 Head	RCS Rear Center Swivel with Lock Rotation	RW Standard-Recessed Lens with weep holes - Outdoor RI Recessed Lens with no weep holes - Indoor FL Flush lens hood	Standard CRI LED2790 - 2700K, 90 CRI LED 3090 - 3000K, 90 CRI LED 3590 - 3500K, 90 CRI LED 4080 - 4000K, 80 CRI LED 5080 - 5000K, 80 CRI Premium CRI LED 2797 - 2700K, 97 CRI LED 3097 - 3000K, 97 CRI LED 3597 - 3500K, 97 CRI LED 4097 - 4000K, 97 CRI Premium Color Tuning ** LEDCB - Bluetooth Color Module LEDCR ¹ - Remote Color Module LEDWD - Warm Dim Color Module	S Spot M Medium F Flood W Wide	Standard Paint Finish BK Black BZ Bronze CS City Silver WT White	L1 Light Level 1 (10W) L2 Light Level 2 (20W) L3 Light Level 3 (30W) LC1 Light Level Color 1 (12W) LC2 Light Level Color 2 (20W)	UNV 120-277V	Surface Mount - Wall, Ceiling, Ground RSM - Round Surface Mount - mounts directly to junction box Thermal Limitations (unless otherwise noted 50C) 1004-A1-xxx-L3-xxx-RSM (45C) Recessed - Ground Mount MB - Ground Mount Recessed Box - Rectangular Housing 10x6x6 (MB Box) Thermal Limitations (unless otherwise noted 50C) Remote Driver Housing WRR ^{2,6} - Remote Driver Housing - Round Wall WRS ^{2,6} - Remote Driver Housing - Square Wall Plate TSR2 ^{2,6} - Tree Strap Mount (1-4) Thermal Limitations (unless otherwise noted 50C) 1004-A1-xxx-L3-xxx-WRxx (45C) Integral Driver Mount WIS ^{2,3} - Wall Integral Driver Plate Thermal Limitations (unless otherwise noted 45C)	SVPD2 ⁴ Standalone integral sensor

Notes: 1. Order LC remote separately
2. Only available for single head option (A1)
3. LC2 and L3 option not available
4. Only available for single head option (A1) with RSM only
5. Only available for LEDCR
6. Remote Driver up to 60'; For L3 (30W) remote distance up to 15'
** Available Q1, 2018



Specifications and dimensions subject to change without notice.

TD506022EN
4-2018



Job Name:
 Checkwriters
 Architect: Thomas Douglas Architects
 (Northampton)

Catalog Number:
 1004-A1-RCS-RW-LED2790-W-XX-
 L1-UNV-RSM
 Notes: Advise standard finish

Type:
F1

CTCT18-200393

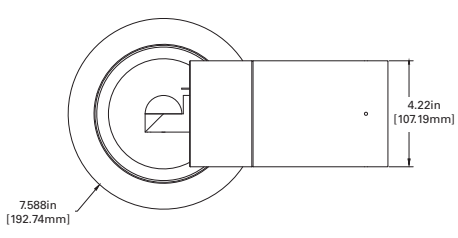
LANTERRA 1004

ACCESSORIES - ORDER SEPARATELY

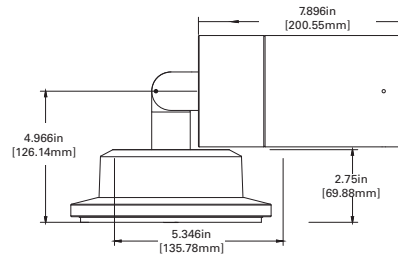
ACCESSORIES				OPTICS	
LCTL1RZRT452L-PK ⁵	Light Comissioning Tool (LCT)	Filters	Lens	Louwer	LLR-S-3-4 15° Spot
ISHH01LUM	Programming Remote for sensor	F71-4 Peach Dichroic	LSL-4 Linear Spread Lens	LVR-4 45° Hex Cell Louwer	LLR-M-3-4 25° Medium
ISHH02LUM	Personal Control Remote for sensor	F72-4 Amber Dichroic	DIF-4 Diffused Lens		LLR-F-3-4 36° Flood
		F73-4 Green Dichroic	OSL-4 Overall Spread Lens		LLR-W-3-4 60° Wide Flood
		F74-4 Medium Blue			LLR-K-3-4 Spot, Medium, Flood, Wide Flood Optic Kit
		F75-4 Yellow Dichroic			
		F76-4 Red Dichroic			LLR-S-LC-3-4 20° Spot - Color tuning optic
		F77-4 Dark Blue Dichroic			LLR-M-LC-3-4 32° Medium - Color tuning optic
		F78-4 Light Blue Dichroic			LLR-F-LC-3-4 42° Flood - Color tuning optic
		F79-4 Neutral Density Dichroic			LLR-W-LC-3-4 56° Wide Flood - color tuning optic
		F80-4 Magenta Dichroic			LR-K-LC-3-4 Spot, Medium, Flood, Wide Flood Color tuning optic kit
		F22-4 Red Color			
		F33-4 Blue Color			
		F44-4 Green Color			
		F55-4 Yellow Color			
		F66-4 Mercury Color			

MOUNTINGS

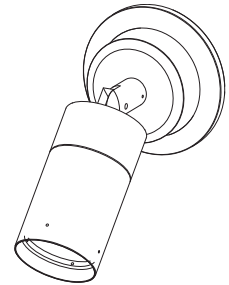
ROUND SURFACE MOUNT (RSM)



TOP VIEW

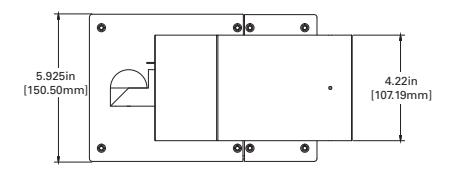


FRONT VIEW

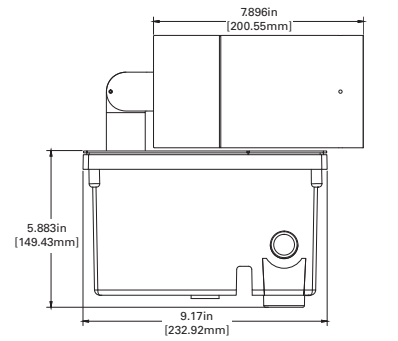


ISO VIEW

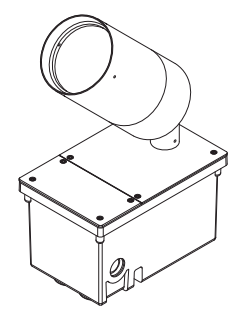
GROUND MOUNT RECESSED BOX (MB)



TOP VIEW

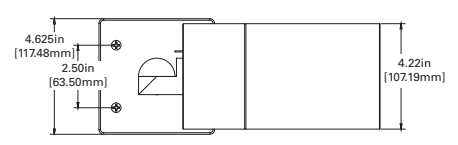


FRONT VIEW

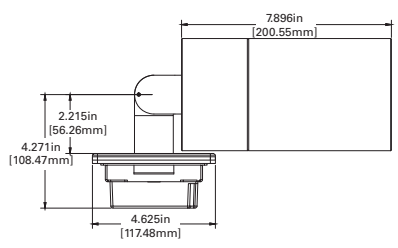


ISO VIEW

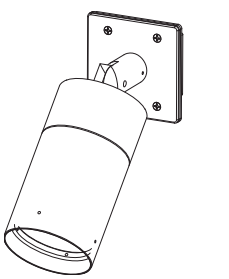
WALL INTEGRAL DRIVER PLATE (WIS)



TOP VIEW



FRONT VIEW



ISO VIEW



Specifications and dimensions subject to change without notice.

TD506022EN
 4-2018



Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

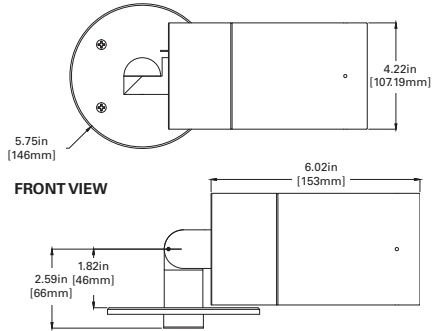
Catalog Number:
1004-A1-RCS-RW-LED2790-W-XX-
L1-UNV-RSM
Notes: Advise standard finish

Type:
F1
CTCT18-200393

LANTERRA 1004

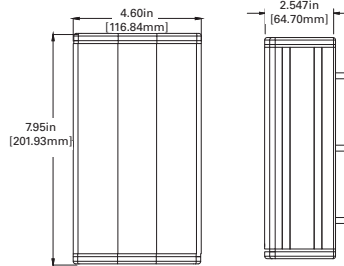
REMOTE DRIVER HOUSING ROUND WALL (WRR)

Also available as WRS (wall remote square)

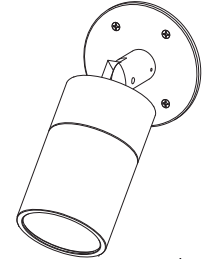


FRONT VIEW

TOP VIEW



REMOTE BOX



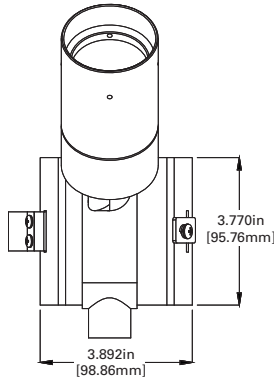
ISO VIEW

Remote Driver distance up to 60',
For L3 (30W) Light level remote distance up to 15'

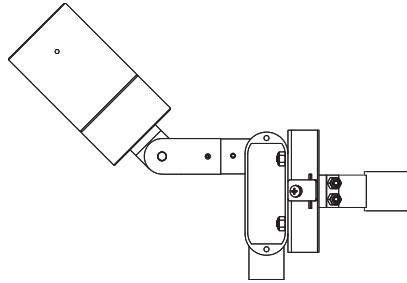
TREE STRAP MOUNT (TSR2-X)

2 head shown (available up to 4 heads)

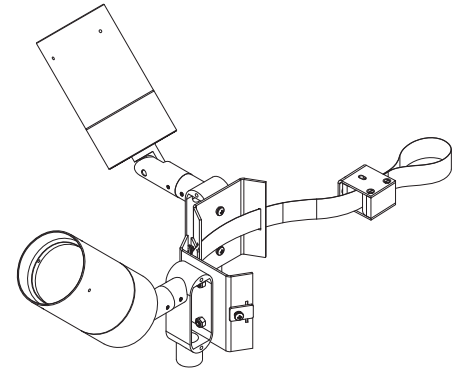
TREE STRAP WITH FIXTURE MOUNTED



FRONT VIEW

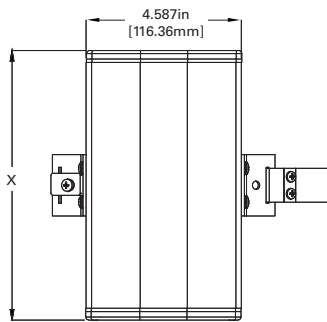


SIDE VIEW

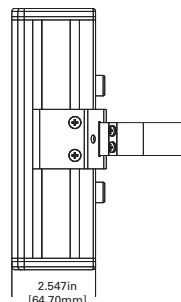


ISO VIEW (TSR2-2 shown)

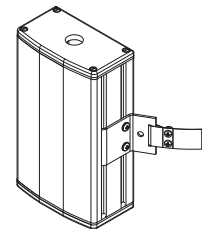
REMOTE DRIVER HOUSING STRAP



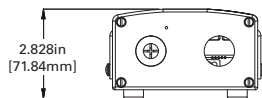
FRONT VIEW



SIDE VIEW



ISO VIEW



X = 7.95in [201.93mm], for up to 2 head configurations
X = 12.050in [306.07], for 3-4 head configurations



Specifications and dimensions subject to change without notice.

TD506022EN
4-2018



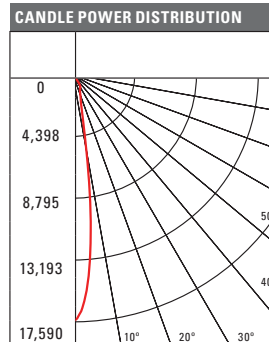
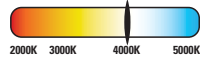
Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

LANTERRA 1004

PHOTOMETRICS

Test Number	P29496
Lumcat	1004-[A1, W1]-X-FL-LED4080-S-BK-L3-UNV
Lumens	2801 Lm
Watts	28.6 W
LPW	97.9 Lm/W
CCT	4000K
SC (0/90/45)	0.27 / 0.27 / 0.27
Beam Angle	15.9°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

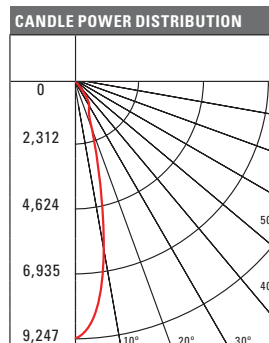
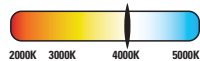


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	4397.5	0.4	0.4
4'	1099.4	1	1
6'	488.6	1.6	1.6
8'	274.8	2	2
10'	175.9	2.6	2.6
15'	78.2	4	4
20'	44	5.4	5.4
30'	19.5	8.2	8.2
40'	11	10.8	10.8

CANDELA TABLE	
Angle	0-deg
0	17590
5	13640
10	5616
15	2329
20	1555
30	1057
40	161
50	11
60	4
70	1
80	0
90	0

Test Number	29497
Lumcat	1004-[A1, W1]-X-FL-LED4080-M-BK-L3-UNV
Lumens	2826 Lm
Watts	28.6 W
LPW	98.8 Lm/W
CCT	4000K
SC (0/90/45)	0.43 / 0.43 / 0.44
Beam Angle	25.5°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

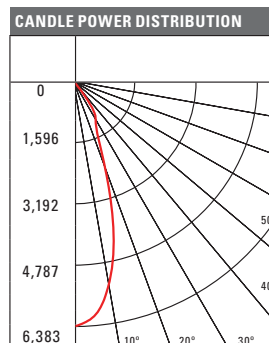
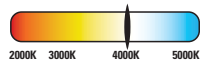


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	2311.8	0.8	0.8
4'	577.9	1.6	1.6
6'	256.9	2.4	2.4
8'	144.5	3.4	3.4
10'	92.5	4.2	4.2
15'	41.1	6.4	6.4
20'	23.1	8.6	8.6
30'	10.3	12.8	12.8
40'	5.8	17.2	17.2

CANDELA TABLE	
Angle	0-deg
0	9247
5	8453
10	6140
15	3506
20	1860
30	1098
40	170
50	13
60	4
70	1
80	0
90	0

Test Number	P29498
Lumcat	1004-[A1, W1]-X-FL-LED4080-F-BK-L3-UNV
Lumens	2871 Lm
Watts	28.5 W
LPW	100.7 Lm/W
CCT	4000K
SC (0/90/45)	0.58 / 0.58 / 0.56
Beam Angle	35.1°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

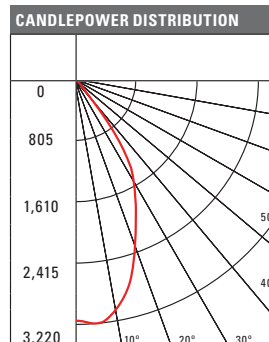
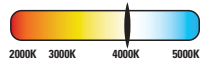


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	1595.8	1	1
4'	398.9	2.2	2.2
6'	177.3	3.4	3.4
8'	99.7	4.6	4.6
10'	63.8	5.8	5.8
15'	28.4	8.6	8.6
20'	16	11.6	11.6
30'	7.1	17.4	17.4
40'	4	23.2	23.2

CANDELA TABLE	
Angle	0-deg
0	6383
5	6141
10	5345
15	4027
20	2423
30	1153
40	178
50	6
60	4
70	1
80	0
90	0

Test Number	P29499
Lumcat	1004-[A1, W1]-X-FL-LED4080-W-BK-L3-UNV
Lumens	2790 Lm
Watts	28.5 W
LPW	97.9 Lm/W
CCT	4000K
SC (0/90/45)	0.86 / 0.86 / 0.91
Beam Angle	58.5°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4



CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	796.9	1.6	1.6
4'	199.2	3.4	3.4
6'	88.5	5	5
8'	49.8	6.8	6.8
10'	31.9	8.4	8.4
15'	14.2	12.8	12.8
20'	8	17	17
30'	3.5	25.6	25.6
40'	2	34.2	34.2

CANDELA TABLE	
Angle	0-deg
0	3173
5	3220
10	3082
15	2784
20	2321
30	1560
40	366
50	95
60	25
70	3
80	0
90	0

CCT/CRI	LED2790	LED3090	LED3590	LED4080	LED5080	LED2797	LED3097	LED3597	LED4097
FC Multiplier	0.754	0.798	0.808	1.000	1.039	0.699	0.706	0.801	0.793

Light Level	L1	L2	L3
FC Multiplier	0.418	0.772	1.000





Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Catalog Number:
1004-A1-RCS-RW-LED2790-W-XX-
L1-UNV-RSM
Notes: Advise standard finish

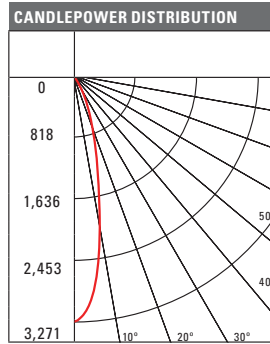
Type:
F1
CTCT18-200393

LANTERRA 1004

PHOTOMETRICS (PREMIUM COLOR TUNING)

Test Number	P29571
Lumcat	1004-[A1, W1]-X-FL-[LEDCB, LEDCR]-S-BK-LC-UNV
Lumens	853 Lm
Watts	24 W
LPW	35.5 Lm/W
CCT	3500K
SC (0/90/45)	0.41 / 0.41 / 0.45
Beam Angle	24.1°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5

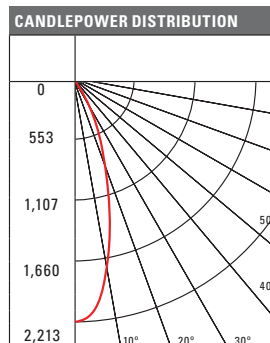
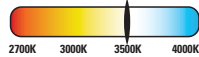


CONE OF LIGHT				
Horizontal Illuminance on Floor				
MH	FC	L	W	
2'	817.8	0.8	0.8	
4'	204.4	1.6	1.6	
6'	90.9	2.4	2.4	
8'	51.1	3.2	3.2	
10'	32.7	4	4	
15'	14.5	6	6	
20'	8.2	8	8	
30'	3.6	12	12	
40'	2	16.2	16.2	

CANDELA TABLE		
Angle	0-deg	
0	3271	
5	2929	
10	2021	
15	1231	
20	747	
30	227	
40	5	
50	1	
60	0	
70	0	
80	0	
90	0	

Test Number	P29572
Lumcat	1004-[A1, W1]-X-FL-[LEDCB, LEDCR]-M-BK-LC-UNV
Lumens	853 Lm
Watts	24 W
LPW	35.5 Lm/W
CCT	3500K
SC (0/90/45)	0.55 / 0.55 / 0.58
Beam Angle	33.7°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5

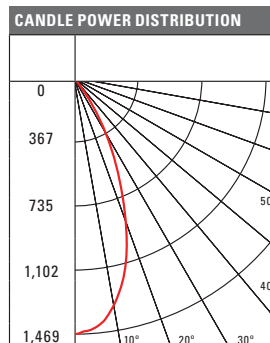
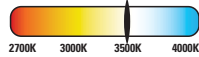


CONE OF LIGHT				
Horizontal Illuminance on Floor				
MH	FC	L	W	
2'	553.2	1	1	
4'	138.3	2.2	2.2	
6'	61.5	3.2	3.2	
8'	34.6	4.4	4.4	
10'	22.1	5.4	5.4	
15'	9.8	8.2	8.2	
20'	5.5	11	11	
30'	2.5	16.4	16.4	
40'	1.4	22	22	

CANDELA TABLE		
Angle	0-deg	
0	2213	
5	2126	
10	1754	
15	1279	
20	845	
30	288	
40	3	
50	1	
60	1	
70	0	
80	0	
90	0	

Test Number	P29573
Lumcat	1004-[A1, W1]-X-FL-[LEDCB, LEDCR]-F-BK-LC-UNV
Lumens	834 Lm
Watts	24 W
LPW	34.8 Lm/W
CCT	3500K
SC (0/90/45)	0.72 / 0.72 / 0.71
Beam Angle	44.7°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5

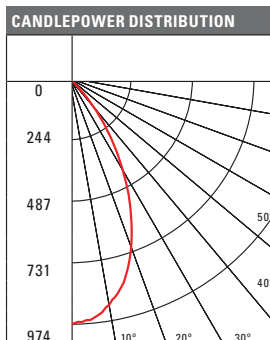
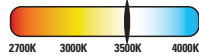


CONE OF LIGHT				
Horizontal Illuminance on Floor				
MH	FC	L	W	
2'	367.2	1.4	1.4	
4'	91.8	2.8	2.8	
6'	40.8	4.2	4.2	
8'	23	5.6	5.6	
10'	14.7	7	7	
15'	6.5	10.6	10.6	
20'	3.7	14.2	14.2	
30'	1.6	21.4	21.4	
40'	0.9	28.6	28.6	

CANDELA TABLE		
Angle	0-deg	
0	1469	
5	1435	
10	1324	
15	1135	
20	865	
30	368	
40	36	
50	3	
60	3	
70	0	
80	0	
90	0	

Test Number	P29574
Lumcat	1004-[A1, W1]-X-FL-[LEDCB, LEDCR]-W-BK-LC-UNV
Lumens	806 Lm
Watts	24 W
LPW	33.6 Lm/W
CCT	3500K
SC (0/90/45)	0.85 / 0.85 / 0.86
Beam Angle	55.8°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5



CONE OF LIGHT				
Horizontal Illuminance on Floor				
MH	FC	L	W	
2'	243.5	1.6	1.6	
4'	60.9	3.4	3.4	
6'	27.1	5	5	
8'	15.2	6.8	6.8	
10'	9.7	8.4	8.4	
15'	4.3	12.8	12.8	
20'	2.4	17	17	
30'	1.1	25.6	25.6	
40'	0.6	34	34	

CANDELA TABLE		
Angle	0-deg	
0	974	
5	960	
10	910	
15	835	
20	715	
30	424	
40	157	
50	6	
60	4	
70	3	
80	0	
90	0	



Job Name:
Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Catalog Number:
1004-A1-RCS-RW-LED2790-W-XX-
L1-UNV-RSM
Notes: Advise standard finish

Type:
F1
CTCT18-200393

LAN TERRA 1004

LUMEN TABLE

		1004-[A1, W1] Regressed Hood - Black								
		L1 - 10 W			L2 - 20 W			L3 - 30W		
		CBCP	Lumens	LPW	CBCP	Lumens	LPW	CBCP	Lumens	LPW
Spot 15°	LED2790	5584	783	79.5	10310	1445	71.9	13357	1872	65.7
	LED3090	5907	828	84.1	10906	1529	76.1	14130	1981	69.5
	LED3590	5983	839	85.1	11047	1549	77.0	14311	2006	70.4
	LED4080	7401	1038	105.3	13666	1916	95.3	17705	2482	87.1
	LED5080	7689	1078	109.4	14197	1990	99.0	18393	2578	90.5
	LED2797	5175	726	73.7	9556	1340	66.6	12380	1736	60.9
	LED3097	5224	732	74.4	9646	1352	67.3	12497	1752	61.5
	LED3597	5926	831	84.3	10941	1534	76.3	14175	1987	69.7
	LED4097	5869	823	83.5	10836	1519	75.6	14038	1968	69.1
	LED2790	2907	781	79.2	5368	1441	71.7	6954	1867	65.5
Medium Flood 25°	LED3090	3075	826	83.8	5678	1525	75.8	7357	1975	69.3
	LED3590	3115	836	84.9	5751	1544	76.8	7451	2001	70.2
	LED4080	3853	1035	105.0	7115	1910	95.0	9218	2475	86.8
	LED5080	4003	1075	109.1	7391	1984	98.7	9576	2571	90.2
	LED2797	2695	723	73.4	4975	1336	66.5	6446	1731	60.7
	LED3097	2720	730	74.1	5022	1348	67.1	6505	1747	61.3
	LED3597	3085	828	84.1	5696	1529	76.1	7380	1981	69.5
	LED4097	3055	820	83.3	5642	1515	75.4	7309	1962	68.9
	LED2790	2006	792	80.4	3704	1463	72.8	4799	1895	66.3
	LED3090	2122	838	85.1	3918	1547	77.0	5076	2004	70.1
Flood 36°	LED3590	2149	849	86.2	3969	1567	78.0	5142	2030	71.0
	LED4080	2659	1050	106.6	4910	1939	96.4	6361	2512	87.8
	LED5080	2762	1091	110.7	5101	2014	100.2	6608	2609	91.2
	LED2797	1859	734	74.5	3233	1356	67.4	4448	1756	61.4
	LED3097	1877	741	75.2	3466	1368	68.1	4490	1773	62.0
	LED3597	2129	841	85.3	3931	1552	77.2	5093	2011	70.3
	LED4097	2108	832	84.5	3893	1537	76.5	5044	1991	69.6
	LED2790	1012	753	76.4	1869	1390	69.2	2422	1801	63.0
	LED3090	1071	796	80.8	1977	1470	73.2	2562	1905	66.6
	LED3590	1085	807	81.9	2003	1489	74.1	2595	1929	67.5
Wide Flood 60°	LED4080	1342	998	101.3	2478	1842	91.7	3210	2387	83.5
	LED5080	1394	1037	105.2	2574	1914	95.2	3335	2480	86.7
	LED2797	938	698	70.8	1733	1288	64.1	2245	1669	58.4
	LED3097	947	704	71.5	1749	1300	64.7	2266	1685	58.9
	LED3597	1074	799	81.1	1984	1475	73.4	2570	1911	66.8
	LED4097	1064	791	80.3	1965	1461	72.7	2545	1893	66.2

TM30 DATA

1004	CCT/CRI	Rf	Rg	Ra	R9
	2790	90.9	98.9	91.7	58.3
	3090	90.8	99.1	92.5	62.6
	3590	90.6	100.4	92.7	67.5
	4080	82.5	94.3	83.1	11.4
	5080	81.6	94.1	82	6
	2797	94.9	100	98.1	86.9
	3097	94	100.3	97.8	88.9
	3597	92.9	99.3	97.2	89.1
	4097	91.5	98.7	95.4	84

POWER TABLE

Number of Heads	Light Level	Input Current (A) at 120 VAC	Input Current (A) at 277 VAC	Input Power (W)
A1	L1	0.08	0.03	10
	L2	0.177	0.088	20.93
	L3	0.252	0.118	30.02
	LC1	0.1	0.085	11.4
	LC2	0.183	0.088	21.44

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C, 40°C, 50°C	> 87%	> 102,000

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Feiss OL7602ES

Dakota 1 Light 25 inch Espresso Outdoor Wall Sconce in Standard, Aged Oak Glass

W6



Call



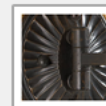
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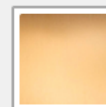
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Finish
Espresso



Shade or Glass
Aged Oak Glass

Lamping
Standard

1

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BOILER ENTRY

General Information

W6

Feiss OL7602ES

Dakota 1 Light 25 inch Espresso Outdoor Wall Sconce in Standard, Aged Oak Glass

1 Bulb Espresso Outdoor

Brand Information

- Brand: Feiss
- Collection: [Dakota](#)
- SKU: OL7602ES
- UPC: 14817414080

Dimensions and Weight

- Width: 9.50 in.
- Height: 24.75 in.
- Extension/Depth: 11.00 in.
- Backplate/Canopy Width: 12.50 in.
- Backplate/Canopy Length: 4.50 in.
- Weight: 12.71 lb.

Other Specifications

- Ships Via: Ground (FREE SHIPPING)
- System: Standard

Additional Details

- Feiss outdoor wall sconces merge unique highstyle design with premium materials and manufacturing techniques.
- Feiss maintains some of the lowest damage rates in the lighting industry through the use of smart package reinforcement and intelligent product design

Design Information

- Category: [Outdoor Wall Lights](#)
- Finish: [Espresso](#)
- Glass: Aged Oak Glass
- Material: Aluminum
- Designer: Miranda

Bulb Information

- Bulbs Included: No
- Primary Bulb(s): 1 x 150 watts Edison

Product Rating

- Voltage: 120V
- Safety Rating: UL Wet

Documents

- Install Sheet: [2019.pdf](#)



Job Name:

Checkwriters
Architect: Thomas Douglas Architects
(Northampton)

Notes: XX - SPECIFY FINISH

CTCT18-200393

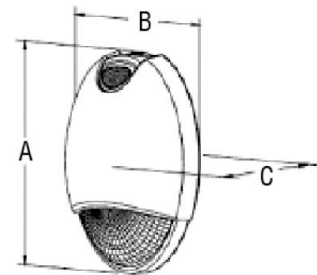
MEZZO

WET | COLD | POWERED BY SAMSUNG LED



FINISH

Job/Location: _____
 Contractor: _____
 Prepared By: _____
 Job Type: _____
 Date: _____



■ **specifications: internal**

The MEZZO uses a universal 120V or 277V input transformer. The automatic recharge circuit is regulated by an electronic voltage sensor and the battery is protected by a low voltage cut-off circuit. Auto-test diagnostics is standard on all MEZZO emergency units. Standard operating temperature is 0°C to 50°C. Optional cold temperature operation allows for -20°C to 50°C.

■ **specifications: external**

The MEZZO housing is constructed from die-cast aluminum and finished in a durable powder coat. The polycarbonate lenses are UV stabilized and incorporate white optics for maximum distribution and efficiency.

A	B	C
10.47"	6.54"	3.78"
266mm	166mm	96mm

**** Advise Finish ****

■ **ordering logic**

Series	Light Source	Operation	Housing	Voltage	Options
MEZ	LED	AC (AC only) ACEM (AC & emergency)	AL ¹ (silver) B (black) DB (dark bronze) WH (white)	120/277V	AT ² (autotest) CL (cold location)

NOTE 1: Special order contact factory
NOTE 2: Comes standard on ACEM version.

EMERGENCY

**Job Name:**Checkwriters
Architect: Thomas Douglas Architects
(Northampton)**Catalog Number:**

MEZ-LED-ACEM-XX-120/277-AT-CL

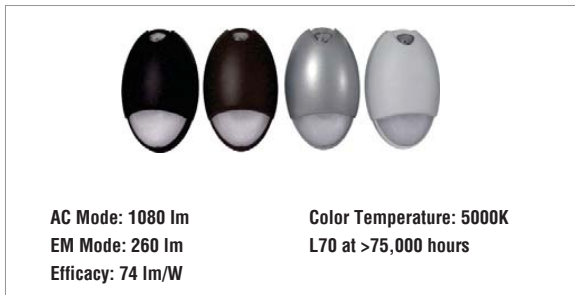
Type:**EM-WP**

Notes: XX - SPECIFY FINISH

CTCT18-200393

Technical

■ housing colors



■ specifications: electrical

BATTERY: The MEZZO ACEM models uses nickel-cadmium battery that provides a minimum 90 minutes emergency duration. The battery is protected from deep discharge by a low-voltage battery disconnect.

■ specifications: mechanical

AC Only utilizes photocell technology or a wall switch for general lighting applications. The MEZZO is suitable for wet/damp locations and operates in the temperature range of 0° to 50°C.

AC and Emergency Operation operates the MEZZO under normal utility power and the charging circuit maintains the battery at full capacity. The unit is switched on/off utilizing a photocell for maximum energy efficiency or wall switch. When AC power fails the unit will automatically provide emergency light. The combined AC and Emergency version comes standard with self-diagnostics and self-test function.

The MEZZO is suitable for wet/damp locations, operation temperature range 0°C to 50°C. An alternative is the cold location option with a battery heater pad for an operating temperature of -20°C to 50°C.

■ ac input ratings

Operation	Voltage	Wattage	Rated Current
AC (AC only)	120V	13W	0.11A
	277V	13W	0.06A
ACEM (AC & emergency)	120V	15W	0.13A
	277V	15W	0.07A

■ autotest

As soon as AC power is supplied to the MEZZO, the unit will automatically initiate a self-diagnostic test. The MEZZO will verify battery disconnection, charger failure and transfer failure every 5 seconds. Every month, the unit will perform a one-minute battery discharge test. Every six months, the unit will perform a 30 minute battery discharge test. Once a year the unit will perform a 90 minute battery discharge test. A dual color red/green LED communicates the status of the unit.

■ cold location

The cold location option utilizes a battery heater pad which allows operation from -20°C to 50°C (-4°F to 122°F) for the Emergency Only or the combined AC and Emergency versions. The AC only unit does not require accessories to be suitable for -50°C cold location.

■ photocell

Under AC power, the MEZZO is switched on and off by a photocell. The photocell detects when the ambient light is reduced and turns the fixture on automatically. Operating with a photocell makes the MEZZO energy efficient only providing light when needed.

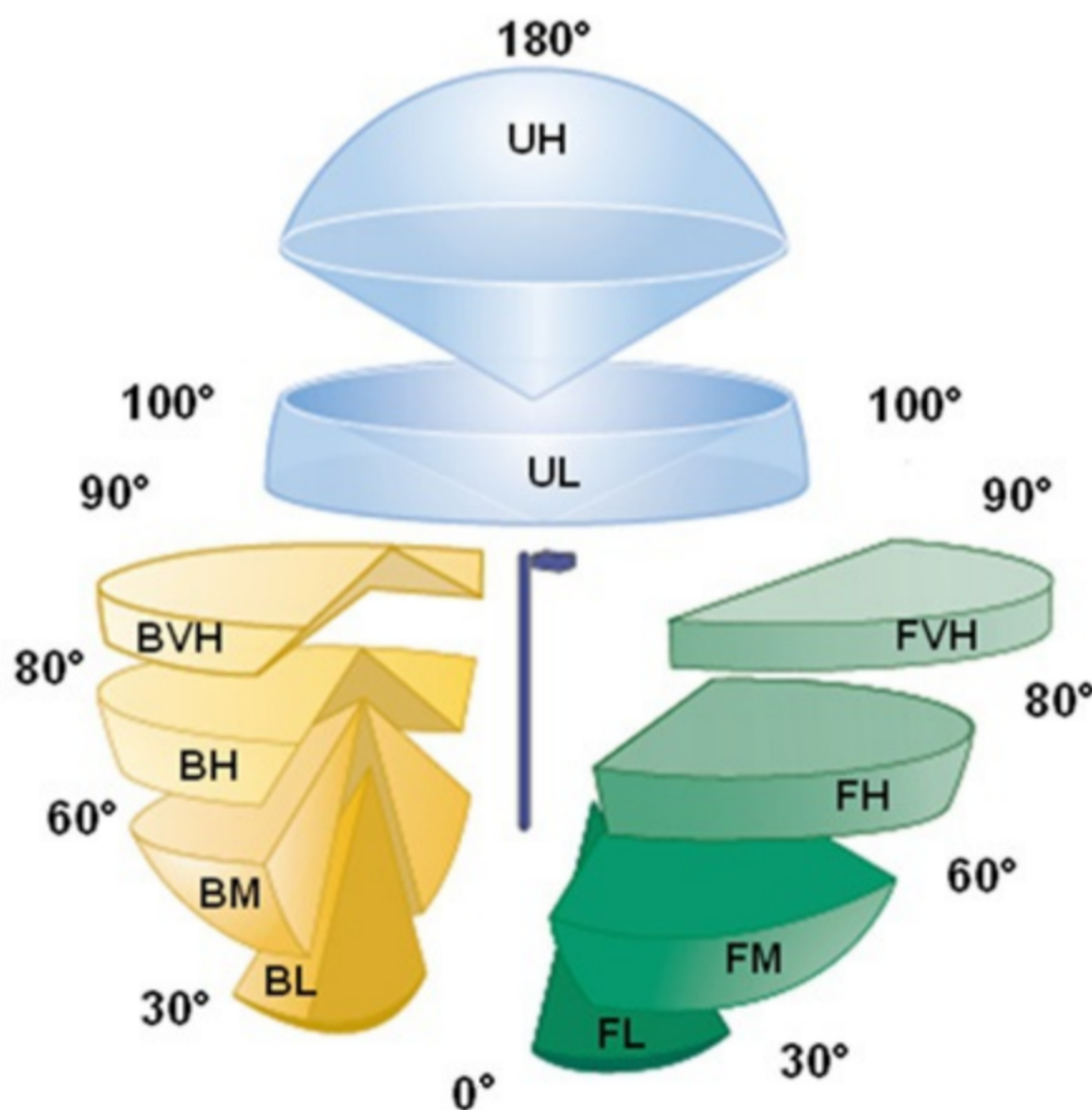
■ warranty

The MEZZO comes with a 5-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

EMERGENCY

All mounted luminaries have three zones of light output. Frontlight (Glare), Backlight, and Uplight. Backlight is the 90 degree quarter-sphere located behind and below the light source. Uplight is all the light escaping above the fixture. All Uplight is inefficient and wasteful since you're basically paying to light up the night sky. Frontlight is the 90 degree section in front and below the light source. Ideally, the light is within a 60 degree angle towards the ground. Light wider than that is considered glare and potentially harmful. You can read more about that in my earlier blog post, "[What is BUG Rating.](#)" This post is going to be a more in depth look at how the BUG rating is calculated for a fixture and what exactly the numbers mean.

Before we get into the actual rating calculations, you will want to consider the zones of light. It's important to note that these zones are separate from the Backlight, Uplight, and Glare rating even though the names are very similar. BUG rating only applies to unwanted light, so the 0-60 degrees of front light is not counted in the BUG rating. I'll go into more details as we break out the calculations. First, we break up the three zones into sub zones by degree.



Zones

Zones

Backlight Sub-Zones

- BVH: Backlight Very High (80-90 degrees)
- BH: Back light High (60-80 degrees)
- BM: Back light Mid (30-60 degrees)
- BL: Back light Low (0-30 degrees)

Uplight Sub-Zones

- UH: Uplight High (100-180 degrees)
- UL: Uplight Low (90-100 degrees)

Glare (Front Light) Sub-Zones

- FVH: Forward light Very High (80-90 degrees)
- FH: Forward light High (60-80 degrees)
- FM: Forward light Mid (30-60 degrees)
- FL: Forward light Low (0-30 degrees)

Calculating the BUGs Rating: Example from IDA

The Backlight Rating (B0-5) is the highest B value from the zones Backlight High (BH), Backlight Mid (BM), and Backlight Low (BL). The chart below shows the maximum zonal lumens for each rating. For example, a light with 136 lumens in zone BH would have a B1 rating for that sub-zone. If it had 930 lumen output in zone BM and 985 lumen output in zone BL, the overall backlight rating would be B2 since that is the highest backlight value of the sub-zones.

Backlight Ratings (maximum zonal lumens)

Subzone	B0	B1	B2	B3	B4	B5	
Backlight/Trespass	BH	110 lm	500 lm	1000 lm	2500 lm	5000 lm	>5000 lm
	BM	220 lm	1000 lm	2500 lm	5000 lm	8500 lm	>8500 lm
	BL	110 lm	500 lm	1000 lm	2500 lm	5000 lm	>5000 lm

The Uplight Rating (U0-5) is the highest U value from the zones Uplight High (UH) and Uplight Low (UL). The chart below shows the maximum zonal lumens for each rating. The example is a 250-watt metal halide area luminaire, Type IV optical distribution. The bulb is housed in a covered box, so there is 0 light escaping in the UH and UL zones, meaning our example fixture has a U rating of U0. If there was light emitted in the zones, the U rating would be calculated using the table below.

Uplight Ratings (maximum zonal lumens)

Secondary Solid Angle		U0	U1	U2	U3	U4	U5
Uplight/Skyglow	UH	0 lm	10 lm	50 lm	500 lm	1000 lm	>1000 lm
	UL	0 lm	10 lm	50 lm	500 lm	1000 lm	>1000 lm

Figure 2

The Glare Rating (G0-5) is where it gets a little complicated, since both Frontlight (Glare) and Backlight sub-zones are factored into the Glare rating. Glare is the highest G value from the zones Forward light Very High (FVH), Backlight Very High (BVH), Forward light High (FH) and Backlight High (BH). The chart below shows the maximum zonal lumens for each rating. For example, a light with the following values, FVH:G1, BVH: G1, FH:G2, and BH:G0, would have an overall Glare Rating of G2 since that is the highest Glare value of the sub-zones.

Glare Rating for Asymmetrical Luminaire Types (Type I, Type II, Type III, Type IV)

Secondary Solid Angle		G0	G1	G2	G3	G4	G5
Glare/Offensive Light	FVH	10 lm	100 lm	225 lm	500 lm	750 lm	>750 lm
	BVH	10 lm	100 lm	225 lm	500 lm	750 lm	>750 lm
	FH	660 lm	1800 lm	5000 lm	7500 lm	12000 lm	>12000 lm
	BH	110 lm	500 lm	1000 lm	2500 lm	5000 lm	>5000 lm

Secondary Solid Angle		G0	G1	G2	G3	G4	G5
Glare/Offensive Light	FVH	10 lm	100 lm	225 lm	500 lm	750 lm	>750 lm
	BVH	10 lm	100 lm	225 lm	500 lm	750 lm	>750 lm
	FH	660 lm	1800 lm	5000 lm	7500 lm	12000 lm	>12000 lm
	BH	660 lm	1800 lm	5000 lm	7500 lm	12000 lm	>12000 lm

Figure 4

Compiling the zonal readings, the BUG report would read as follows, giving the luminaire a BUG rating B2 U0 G2.

Section	Lumens	Value
Backlight		
BH: (60-80 degrees)	136	B1
BM: (30-60 degrees)	930	B1
BL: (0-30 degrees)	985	B2
Uplight		
UH: (100-100 degrees)	0	U0
UL: (90-100 degrees)	0	U0
Glare		
FVH: (80-90 degrees)	27	G1
FH: (60-80 degrees)	3748	G2
BVH: (80-90 degrees)	16	G1
BH: (60-80 degrees)	136	G0