



City of Madison

Proposed Demolition and Conditional Use

Location
3414 Monroe Street

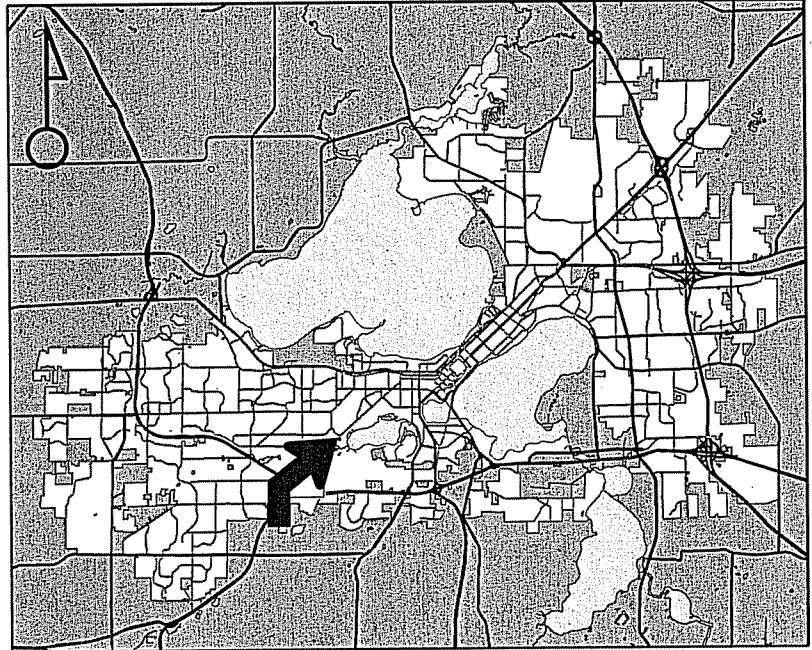
Project Name
The Glen

Applicant
Patrick Corcoran – Patrick Properties/
Paul Cuta – CaS4 Architecture

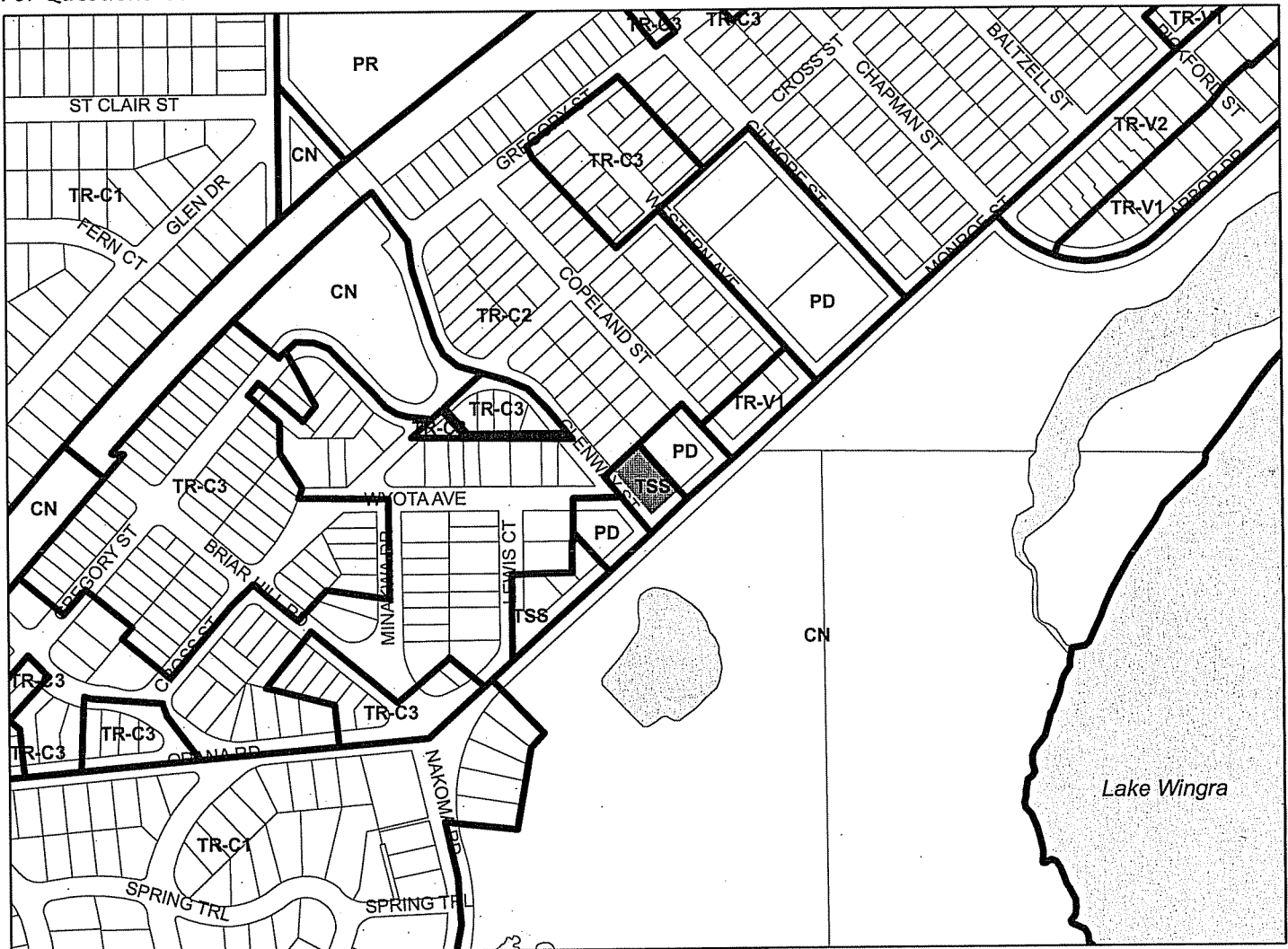
Existing Use
Office building

Proposed Use
Demolish office building to construct a
mixed-use building with 3,500 square feet
of commercial space and 19 apartments

Public Hearing Date
Plan Commission
20 April 2015



For Questions Contact: Heather Stouder at: 266-5974 or hstouder@cityofmadison.com or City Planning at 266-4635



Scale : 1" = 400'

City of Madison, Planning Division : RPJ : Date : 15 April 2015





LAND USE APPLICATION

CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

- All Land Use Applications should be filed with the Zoning Administrator at the above address.
- The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the Subdivision Application.
- This form may also be completed online at:
www.cityofmadison.com/developmentcenter/landdevelopment

FOR OFFICE USE ONLY:	
Amt. Paid _____	Receipt No. _____
Date Received _____	
Received By _____	
Parcel No. _____	
Aldermanic District _____	
Zoning District _____	
Special Requirements _____	
Review Required By:	
<input type="checkbox"/> Urban Design Commission	<input type="checkbox"/> Plan Commission
<input type="checkbox"/> Common Council	<input type="checkbox"/> Other: _____

Form Effective: February 21, 2013

1. Project Address: 3414 MONROE STREET
Project Title (if any): THE GLEN

2. This is an application for (Check all that apply to your Land Use Application):

- Zoning Map Amendment from _____ to _____
- Major Amendment to Approved PD-GDP Zoning Major Amendment to Approved PD-SIP Zoning
- Review of Alteration to Planned Development (By Plan Commission)
- Conditional Use, or Major Alteration to an Approved Conditional Use
- Demolition Permit
- Other Requests: _____

3. Applicant, Agent & Property Owner Information:

Applicant Name: PATRICK CORCORAN Company: PATRICK PROPERTIES
 Street Address: 2417 UNIVERSITY AVE. City/State: MADISON, WI Zip: 53726
 Telephone: (608) 663-1778 Fax: (608) 663-1557 Email: patrick.properties@tds.net

Project Contact Person: PAUL CUTA Company: CBS4 ARCHITECTURE, LLC
 Street Address: 3414 MONROE STREET City/State: MADISON, WI Zip: 53711
 Telephone: (608) 709-1250 Fax: () N/A Email: pcuta@CBS4arch.com

Property Owner (if not applicant): N/A.
 Street Address: _____ City/State: _____ Zip: _____

4. Project Information:

Provide a brief description of the project and all proposed uses of the site: _____

Development Schedule: Commencement MID AUGUST 2015 Completion MAY 1, 2016

5. Required Submittal Information

All Land Use applications are required to include the following:

- Project Plans** including:*
 - Site Plans (fully dimensioned plans depicting project details including all lot lines and property setbacks to buildings; demolished/proposed/altered buildings; parking stalls, driveways, sidewalks, location of existing/proposed signage; HVAC/Utility location and screening details; useable open space; and other physical improvements on a property)
 - Grading and Utility Plans (existing and proposed)
 - Landscape Plan (including planting schedule depicting species name and planting size)
 - Building Elevation Drawings (fully dimensioned drawings for all building sides, labeling primary exterior materials)
 - Floor Plans (fully dimensioned plans including interior wall and room location)

Provide collated project plan sets as follows:

- **Seven (7) copies** of a full-sized plan set drawn to a scale of 1 inch = 20 feet (folded or rolled and stapled)
- **Twenty Five (25) copies** of the plan set reduced to fit onto 11 X 17-inch paper (folded and stapled)
- **One (1) copy** of the plan set reduced to fit onto 8 ½ X 11-inch paper

* For projects requiring review by the **Urban Design Commission**, provide **Fourteen (14) additional 11x17 copies** of the plan set. In addition to the above information, all plan sets should also include: 1) Colored elevation drawings with shadow lines and a list of exterior building materials/colors; 2) Existing/proposed lighting with photometric plan & fixture cutsheet; and 3) Contextual site plan information including photographs and layout of adjacent buildings and structures. The applicant shall bring samples of exterior building materials and color scheme to the Urban Design Commission meeting.

- Letter of Intent: Provide one (1) Copy per Plan Set** describing this application in detail including, but not limited to:

- | | | |
|---|---|--|
| • Project Team | • Building Square Footage | • Value of Land |
| • Existing Conditions | • Number of Dwelling Units | • Estimated Project Cost |
| • Project Schedule | • Auto and Bike Parking Stalls | • Number of Construction & Full-Time Equivalent Jobs Created |
| • Proposed Uses (and ft ² of each) | • Lot Coverage & Usable Open Space Calculations | • Public Subsidy Requested |
| • Hours of Operation | | |

- Filing Fee:** Refer to the Land Use Application Instructions & Fee Schedule. Make checks payable to: *City Treasurer*.

- Electronic Submittal:** All applicants are required to submit copies of all items submitted in hard copy with their application as Adobe Acrobat PDF files on a non-returnable CD to be included with their application materials, or by e-mail to pcapplications@cityofmadison.com.

- Additional Information** may be required, depending on application. Refer to the Supplemental Submittal Requirements.

6. Applicant Declarations

- Pre-application Notification:** The Zoning Code requires that the applicant notify the district alder and any nearby neighborhood and business associations in writing no later than **30 days prior to FILING this request**. List the alderperson, neighborhood association(s), and business association(s) AND the dates you sent the notices:

SEE ATTACHED EMAIL FROM ALDER DAILEY DATED 2-6-2015

→ If a waiver has been granted to this requirement, please attach any correspondence to this effect to this form.

- Pre-application Meeting with Staff:** Prior to preparation of this application, the applicant is required to discuss the proposed development and review process with Zoning and Planning Division staff; note staff persons and date.

Planning Staff: _____ Date: _____ Zoning Staff: _____ Date: _____

DAI INITIAL - 7-10-2014 / PLANNING STAFF - 11-10-2014 / HEATHER, ANN, PAT ANDERSON - 2-11-2015

The applicant attests that this form is accurately completed and all required materials are submitted:

Name of Applicant PAUL CUTA Relationship to Property: ARCHITECT

13002.00 – the GLEN – Plan Comm. Letter of Intent

Heather Stouder
City of Madison– Department of Planning
Department of Planning and Economic Development
215 Martin Luther King Jr. Blvd., Suite LL100
Madison, WI 53703

Re Planning Commission Submittal – Letter of Intent
the GLEN – A Patrick Properties Development

Dear Heather and Committee Members,

the GLEN – by Patrick Properties

Action Requested

Approval for conditional-use and demolition.

Introduction

The Glen is a proposed new mixed-use project located at 3414 Monroe Street. It is comprised of 35,798 gross square feet on four levels above grade and one level of below grade parking. The grade level includes limited commercial space, residential lobby and parking for commercial space use. Levels two through four provide a total of 19 rental residential units including a mix of studio, one, two, and three bedroom units. All units, except two, have exterior space in the form of a balcony or terrace and have been designed to maximize views to the adjoining amenities while trying to respect sensitive adjacencies. The below grade parking provides 20 spaces dedicated to the 19 residential units. In addition to the vehicle parking spaces below grade there are 22 bike parking stalls to serve the residence of the apartment units. The main level provides 6 exterior bicycle parking spaces and 9 exterior automobile parking spaces. The project also provides a dog water station along Glenway Street to provide community convenience and benefit to the many neighbors passing by this active corner.

Design

The architectural solution for the Glen is composed of a series of wood clad forms highlighted with details of natural plaster. These forms are supported by a masonry base that is eroded along the street scape, allowing the forms above to float over the commercial space. The step back at the first floor allows the building to present an improved pedestrian experience along the sidewalk while also improving street level views. The wood forms are modulated and scaled to transition to the single family residential scale ascending Glenway's street scape as well as the adjoining neighbors. The wood forms are articulated with a combination of large windows and natural plaster elements that step back to help articulate the massing. The fourth level is set back on all four sides as it caps the building as a plaster clad form. Usable exterior space is provided for the residential units via balconies and terraces that are located and designed to maximize the views to the adjoining arboretum while trying to minimize impact on immediate neighbors. The building form is purposefully setback from the East and North property lines to help mitigate impact on adjoining neighbors. Extensive (tray system) green roofs are provided at the building step-backs/terraces. The primary

March 4, 2015
Page 1 of 4

materials of masonry, wood, and plaster are purposely used and executed in the composition to be respectful of the neighborhood and adjoining properties while striving to represent a building of the period and continued evolution of our neighborhoods, city and its rich history.

Site / Landscape

The building massing is held back along the Monroe Street and Glenway elevations, to soften the pedestrian experience as one passes the building. The main mass sits on plinth that is 30" high along Monroe Street and tappers to at grade access as one moves up Glenway. A 24" wide band of hearty ornamental grasses line this plinth and soften the edge as the site abuts the public sidewalk. Groundwater is channeled to the East side of the site and passes through a series of weirs that terminate in a rain garden located at the SE corner of the site. This feature creates a visible landscape and water treatment feature along this side of the building and is intended to also soften the impact on the adjoining property. The North edge of the site is lined with screen landscape and a cedar fence to help protect the privacy of the adjoining property. The screening fence is designed with a horizontal wood slats to tie in with the neighbors carefully crafted wood rails and screens of a similar design. A similar wood screen wall is located along the East edge of the site to help control automobile headlights impact on the property to the East.

Zoning

The site is zoned TSS (Traditional Shopping Street District). The proposed design is in compliance with the prescribed City zoning requirements and the adopted neighborhood development plan. It is also the direct result of site responsive design informed by community concerns shared with the design team in previous neighborhood meetings, presentations to Landmarks Commission, and comments from City of Madison Planning. Several concerns addressed included but were not limited to looking at the breakdown of scale to avoid the perceived "big dumb box feel" of the neighboring development project, sensitivity to the pedestrian experience along the street, scale and massing stepping back a bit at the SE corner of the site to help preserve views of the adjoining property, material palette compatibility, parking / traffic concerns and sustainability.

13002.00 – the GLEN – Plan Comm. Letter of Intent

Project Team

Owner	Patrick Properties	Patrick Corcoran
Architect	Cās ₄ Architecture, LLC	Paul Cuta
Contractor	Krupp	Scott Vukobrat

Existing Conditions

See attached Photos

Proposed Uses

Commercial	3,492	Rentable Square Feet
Residential & General Use	22,426	Gross Square Feet
Below Grade Parking	9,880	Gross Square Feet

Hours of Operation

Typical hours of operation are:

Commercial	7:30 am – 6:00 pm	Monday – Friday
Residential	24/7	

Building Square Footage

35,798 gsf (within building exterior walls from below grade parking through 4th floor)

Number of Dwelling Units

Nineteen (19)

- 2 – Studio Units
- 8 – One-Bedroom Units
- 5 – Two-Bedroom Units
- 4 – Three-Bedroom Units

Auto & Bike Parking Stalls

Bicycle Parking	28	(22 Interior Residential, 2 Residential Guest, 4 Business)
Auto Parking	29	(9 Exterior for Commercial, 20 Interior for Residence)
Accessible	2	(1 Exterior for Commercial, 1 Interior for Residence)
Non-Accessible	27	(8 Exterior for Commercial, 19 Interior for Residence)

Lot Coverage and Usable Open Space:

Lot Size	13,168 sf
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Pervious Area:

Landscape	1,520 SF
Green Roof	2,170 SF
Pervious Pavement	1,317 SF
<u>Total</u>	<u>5,007 SF</u>

Proposed ISR	62%
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Residential Balconies & Terraces	2,527 SF
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13002.00 – the GLEN – Plan Comm. Letter of Intent

Value of Land

\$200,000 - \$300,00

Estimated Project Cost

\$3,500,000 (\$2,900,000 construction cost)

Number of Construction & Full-Time Equivalent Jobs Created

Commercial Space	10 FTE's
Construction Jobs	15-30 FTE's

Public Subsidy Requested

None.

Paul M. Cuta, AIA
Partner

PMC/mds

Attachments:

Copied File

From: Patrick Corcoran patrickproperties@tds.net
Subject: Fwd: 3414 Monroe St
Date: February 18, 2015 at 3:52 PM
To: Marc at CaS4 marc@cas4arch.com

----- Forwarded Message -----

From: "Lucas Dailey" <district13@cityofmadison.com>
To: "Heather Stouder" <HStouder@cityofmadison.com>
Cc: "patrickproperties tds.net" <patrickproperties@tds.net>
Sent: Friday, February 6, 2015 12:39:53 PM
Subject: FW: 3414 Monroe St

I'm fine waiving the waiting period for this. I assume Plan commission can only take it up with Landmarks had their crack at it first, of course.

Lucas Dailey
DISTRICT 13 ALDER
CITY OF MADISON
(608) 535-1214

Subscribe to District 13 updates at www.cityofmadison.com/council/district13/

From: Patrick Corcoran <patrickproperties@tds.net>
Sent: Friday, February 6, 2015 11:39 AM
To: Dailey, Lucas
Subject: 3414 Monroe St

Dear Lucas,

This is notification of my intent to submit development plans to City of Madison Plan Commission on March 4, 2015, for the location; 3414 Monroe St.

I respectfully request you waive the 30 day requirement for this notification.

Thank you for your attention to the matter.

Sincerely,
Patrick J Corcoran



Department of Planning & Community & Economic Development
 215 Martin Luther King, Jr. Blvd., Ste. LL-100
 Madison, WI 53703
 266-4551 FAX 267-8739

Parking Lot / Site Plan Approval Application Checklist

Instructions: Please complete this form and submit it with all the materials necessary for a parking lot plan review and approval. Check boxes for the items submitted that apply to your project. If you are not sure about what to show or submit, call the appropriate agency (see Box G). Once your application is accepted, staff will review, approve and return your application materials within 7 working days or sooner.

Site Address 3414 MONROE STREET		
Contact Person PAUL CUTA	Company CESA ARCHITECTURE	Phone/FAX 608-709-1250
Contact Person Address 3414 MONROE STREET, MADISON, WI 53711		
Project Type (check one): <input checked="" type="checkbox"/> New <input type="checkbox"/> Alteration		

- A. These items must be included with an application:**
- 1. Scaled plan drawing(s): 1" = 20' or larger: 7 complete sets
 - 2. Conditional Use or PUD/SIP approval letter (if applicable)
 - 3. Driveway Opening Permit application
 - 4. Easements for joint driveways or joined parking lots on separate parcels (if applicable)
 - 5. Land Disturbing Activity Permit Application (sites 1 acre or more in size)
 - 6. Erosion Control Plan: 7 copies (sites 1 acre or more in size-See Example Plan 2)
 - 7. Landscape Worksheet (sites with more than 3 parking stalls)
 - 8. Outdoor Lighting Plan and manufacturers specs (if applicable)

- D. Parking layout information that must be on your drawing(s). See Example Plan W:**
- 26. Dimensions of parking stalls and drive aisles
 - 27. Location of accessible parking stalls
 - 28. Location of accessible parking stall signs
 - 29. Location and width of accessibility ramps
 - 30. Location of loading facilities
 - 31. Bicycle parking rack locations and rack style

- B. Information about your property that must be shown on your drawing(s). See Example Plan W:**
- 9. Project information block on first page of plan
 - 10. Property lines
 - 11. Abutting right-of-way, roadways, driveways and terraces shown and dimensioned
 - 12. Elevations of existing and proposed site to City datum
 - 13. Elevation of top of curb
 - 14. Storm sewers or drainage pattern (See Example Plan Y)
 - 15. Proposed driveway radii
 - 16. Type of surface on driveway, approach and lot (grass, concrete, bituminous)
 - 17. Location of existing and proposed impervious surfaces
 - 18. Means of separation between parking lot and sidewalk or adjoining property
 - 19. Tree islands and protective curbing
 - 20. Screening or landscaping (See Example Plan X)
 - 21. On site fire hydrants

- E. "Off-property" information that must be shown on your drawing(s):**
- 32. Trees, poles, signs in the right-of-way (if applicable)
 - 33. Medians (if applicable)
 - 34. Driveway openings directly across the street (if applicable)
 - 35. Distance to nearest intersection
 - 36. Fire hydrants within 500 feet of your property line

F. Other information you want staff to know:

- C. Information about the structures that must be shown on your drawing:**
- 22. Existing structures (footprints and dimensions)
 - 23. Proposed structures (footprints and dimensions)
 - 24. Setback distances (front, rear and sides)
 - 25. Fencing and/or screening (type and location)

G. Questions: Call City Staff for help.

ZONING	Building Use	266-4551
	Setbacks	
	Landscaping	
	Occupancy	
TRAFFIC ENGINEERING	Parking lot geometrics	266-4761
ENGINEERING	Drainage	266-4751
	Land disturbing activity	
	Soil erosion	
FIRE	Fire hydrants / access	266-4484
BUILDING INSPECTION	Parking lot lighting	266-4568

OFFICE USE ONLY:

Date/Time Received:	Accepted:
Staff Person	



CITY OF MADISON FIRE DEPARTMENT

30 West Mifflin Street, 8th & 9th Floors, Madison, WI 53703-2579

Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

Project Address: 3414 MADROE STREET

Contact Name & Phone #: PAUL COTA 709.125

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system? If non-sprinklered, fire lanes extend to within 150-feet of all portions of the exterior wall? If sprinklered, fire lanes are within 250-feet of all portions of the exterior wall?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs? a) Is the fire lane a minimum unobstructed width of at least 20-feet? b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet? c) Is the minimum inside turning radius of the fire lane at least 28-feet? d) Is the grade of the fire lane not more than a slope of 8%? e) Is the fire lane posted as fire lane? (Provide detail of signage.) CITY ROAD f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.) g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A
3. Is the fire lane obstructed by security gates or barricades? If yes: a) Is the gate a minimum of 20-feet clear opening? b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet? If yes, does the area for turning around fire apparatus comply with IFC D103?	<input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6 If yes, see IFC 3206.6 for further requirements.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
6. Is any part of the building greater than 30-feet above the grade plane? If yes, answer the following questions: a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? c) Are there any overhead power or utility lines located across the aerial apparatus fire lane? d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species) e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet? f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants? <i>Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.</i> a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants? b) Is there at least 40' between a hydrant and the building? c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane? d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb? e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A

Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on MGO 34.503 and IFC 2012 Edition Chapter 5 and Appendix D; please see the codes for further information.



CITY OF MADISON LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address 3414 Monroe Street
 Name of Project the Glen
 Owner Jacob Blue, PLA, SAA Design Group, Inc.
 Contact Phone 608-441-3564 Contact Email jblue@saa-madison.com

**** Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. ****

Applicability

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless all of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- (a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.
- (b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.
- (c) No demolition of a principal building is involved.
- (d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

- (a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area 5,465 sf

Total landscape points required 92

- ~~(b) For lots larger than five (5) acres, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.~~

Total square footage of developed area _____

Five (5) acres = 217,800 square feet

First five (5) developed acres = 3,630 points

Remainder of developed area _____

Total landscape points required _____

- ~~(c) For the Industrial - Limited (IL) and Industrial - General (IG) districts, one (1) point shall be provided per one hundred (100) square feet of developed area.~~

Total square footage of developed area _____

Total landscape points required _____

Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2½ inch caliper measured diameter at breast height (dbh)	35				
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35				
Ornamental tree	1 1/2 inch caliper	15				
Upright evergreen shrub (i.e. arborvitae)	3-4 feet tall	10				
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3			49	147
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4				
Ornamental grasses/ perennials	#1 gallon container size, Min. 8"-18"	2			36	72
Ornamental/ decorative fencing or wall	n/a	4 per 10 lineal ft.			115	46
Existing significant specimen tree	Minimum size: 2 ½ inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200	36"	200*		
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.	5 points per "seat"				
Sub Totals				27		265

Total Number of Points Provided 292

* As determined by ANSI, ANLA- American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as stated in the current American Standard for Nursery Stock.

DESCRIPTION

Rio architectural step lights provide beauty, performance and durability. Transitional styling, low profile design and no visible fasteners provide seamless integration with architectural styles of all kinds. Logical, modular design elements facilitate fast and foolproof installation in all types of wall surfaces including drywall, concrete pour or brick/masonry. All models include IP68 rated outdoor protection, but are also suitable for indoor wall-mounted applications, including those with direct insulation contact (IC). All models are ADA compliant.

Catalog #		Type	F1
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

A ... Construction

Back box and painted fascia are die-cast from corrosion-resistant Type 383 aluminum alloy. Back box is painted white. Natural metal fascia is precision-machined from solid brass or stainless steel.

B ... Finish

Back box and fascia are double protected by a chromate conversion undercoating and polyester powdercoat paint finish. Machined, natural finish brass or stainless steel fascia is unpainted to reveal the natural beauty of the material. Brass will patina naturally over time in outdoor environments.

C ... Electrical

Fixture includes integral, electronic ballast, transformer or LED driver mounted to Lumiere's factory-assembled POWER-TRAY(TM) optical/electrical module. The POWER-TRAY(TM) module plugs directly into the back box providing fast, easy installation.

D ... Mounting

Back box is available to ship in advance for rough-in purposes. Back box includes four (4) 3/4" conduit entry ports, concrete pour cover, UP arrow and two level vials to facilitate proper alignment. Fixture also includes the patent pending FASCIAlign(TM) fascia alignment system which provides rotation of the fascia +/- 10 degrees (total of 20 degrees), insuring proper alignment.

E ... Classification / Code Compliance

UL and cUL listed, standard wet label. IP68 rated. Also suitable for indoor recessed wall-mount applications, including insulation contact (IC). Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

F ... Lamp

Lamp for LED source included as standard. Lamps for other sources not included (available from Lumiere as an accessory - order separately).

G ... Warranty

Lumiere warrants its fixtures against defects in materials and workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.

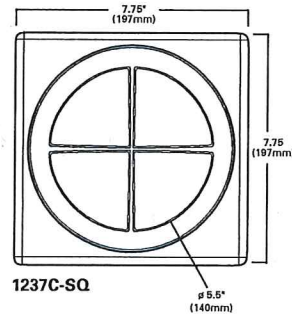
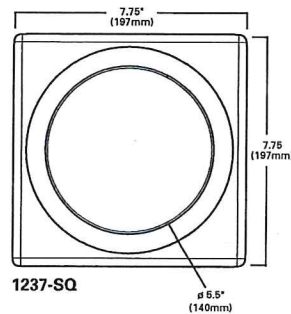
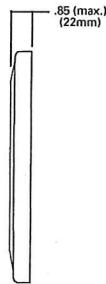
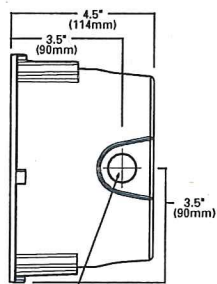
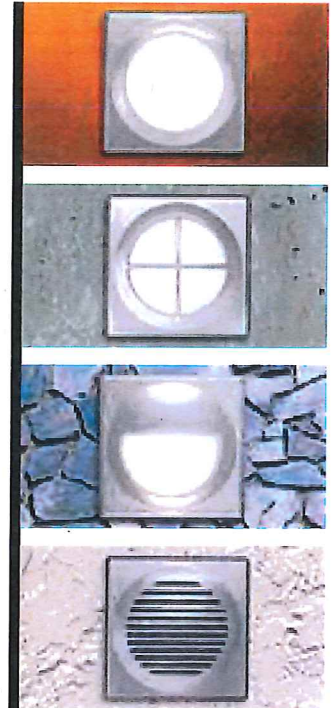
Recessed Housing

Recessed housing is available to ship in advance of complete fixture for rough-in purposes. Specify option -LBB and order separately accompanying recessed housing from below:

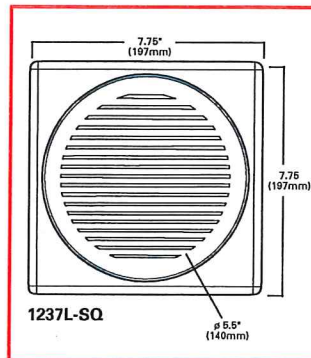
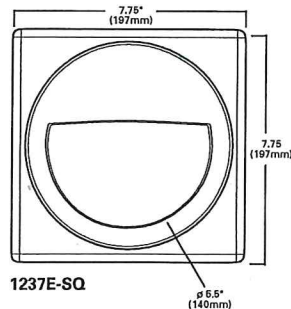
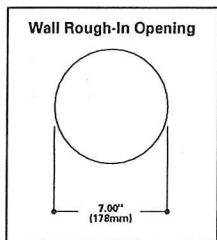
1237-BB-C
7" back box and pour cover for concrete pour wall

1237-BB-D
7" back box and pour cover for drywall/frame construction wall

1237-BB-M
7" back box and pour cover for masonry wall



4 x 3/4-14 NPT THREADED HOLE
Plug should be flush to 1.33mm max
Apply thread sealant on plug before inserting



- RIO**
- 1237-SQ
- 1237C-SQ
- 1237E-SQ
- 1237L-SQ

12W (max.) LED
20W (max.) T3 Halogen
Low Voltage

13W (max.) CFL
Line Voltage

20W (max.) T4.5
Metal Halide
STEP LIGHT

ADA IP68

ORDERING INFORMATION

Verify

Model 1237-SQ =7" square, open fascia w/ clear, diffused lens 1237C-SQ =7" square, cross/guard fascia w/ clear, diffused lens 1237E-SQ = 7" square, eyelid fascia w/ clear, diffused lens 1237L-SQ = 7" square, louvered fascia w/ clear lens	Wall Type C =Concrete Pour D =Drywall M =Masonry	Source ¹ 12V Halogen or LED 20T3 =20W / T3 / G4 12LED =12W / LED (LED lamps included) Compact Fluorescent CF13 : 13W / triple tube / GX24q-1 Metal Halide MH20T4 : 20W / T4.5 / G8.5 Volts 12V Halogen 120/12 : 120/12V electronic transformer 277/12 : 277/12V electronic transformer LED 120/12 : 120V electronic LED driver Compact Fluorescent or Metal Halide 120 : 120V electronic ballast 277 : 277V electronic ballast	Finish Painted BK =black BZ =bronze CS : city silver VE : verde WT : white Metal NBR : brass NSS : stainless steel	Options LBB =Housing and Pour Cover Shipped in Advance (select LBB option and order recessed housing separately)	Recessed Housing (order separately) Select housing from Recessed Housing section on previous page	

Notes: 1 Unless noted otherwise, lamps not included.



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Photometric Report (Type C)

Filename: F1_1237E-12LED.ies
[TEST] P10177
[TESTLAB] PEACHTREE CITY
[ISSUEDATE] 08/14/06
[MANUFAC] COOPER LIGHTING - LUMIERE
[LUMCAT] 1237E-RD-x-LED
[LUMINAIRE] LUMIERE 7 INCH LED STEP LIGHT WITH EYELID
FACEPLATE, SAND BLASTED LENS W/O REFLECTOR
[LAMPCAT] 12 SMT LED CIRCUIT BOARD
[BALLAST] B137

Maximum Candela = 33.2999992370605 at 0 H 67.5 V

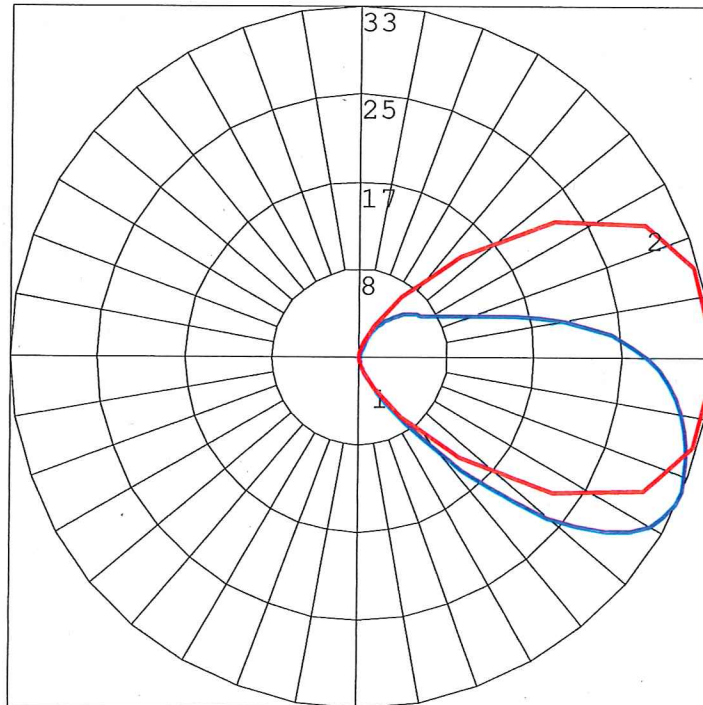
Classification:

Road Classification: Type IV, Very Short, Non-Cutoff (deprecated)
Upward Wast Light Ratio: 0.35
Luminaire Efficacy Rating (LER): 3
Indoor Classification: Semi-Direct
BUG Rating : B0-U2-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 67.5 Vertical





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since 1984



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Photometric Report (Type C)

Filename: F1_1237E-12LED.ies
 [TEST] P10177
 [TESTLAB] PEACHTREE CITY
 [ISSUEDATE] 08/14/06
 [MANUFAC] COOPER LIGHTING - LUMIERE
 [LUMCAT] 1237E-RD-x-LED
 [LUMINAIRE] LUMIERE 7 INCH LED STEP LIGHT WITH EYELID
 FACEPLATE, SAND BLASTED LENS W/O REFLECTOR
 [LAMPCAT] 12 SMT LED CIRCUIT BOARD
 [BALLAST] B137

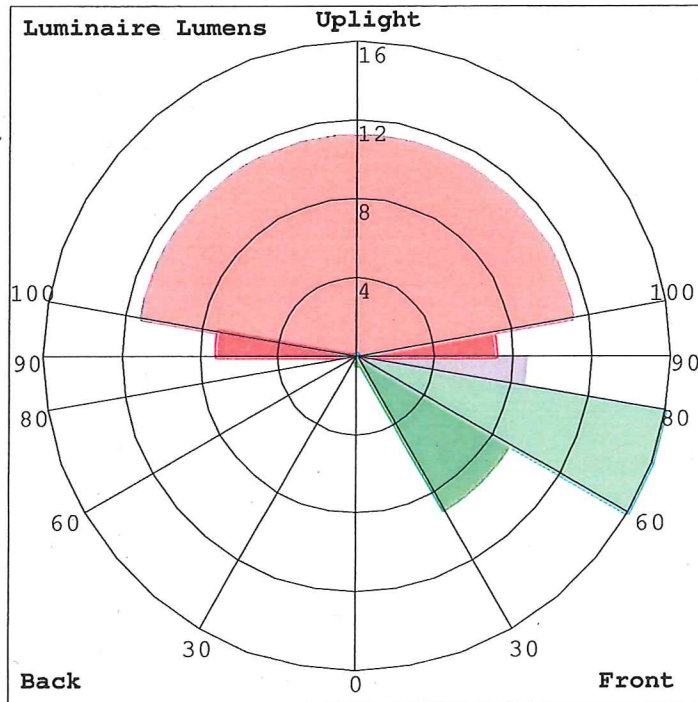
Maximum Candela = 33.2999992370605 at 0 H 67.5 V

Classification:

Road Classification: Type IV, Very Short, Non-Cutoff (deprecated)
 Upward Waste Light Ratio: 0.35
 Luminaire Efficacy Rating (LER): 3
 Indoor Classification: Semi-Direct
 BUG Rating : B0-U2-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	0.5	0.2	0.9
FM (30-60)	9.3	4.7	17.2
FH (60-80)	16.5	8.4	30.5
FVH (80-90)	8.9	4.6	16.5
BL (0-30)	< 0.05	0.0	0.0
BM (30-60)	0.0	0.0	0.0
BH (60-80)	< 0.05	0.0	0.0
BVH (80-90)	< 0.05	0.0	0.0
UL (90-100)	7.3	3.8	13.6
UH (100-180)	11.5	5.9	21.3
Total	54.0	27.6	100.0
BUG Rating	B0-U2-G0		



DESCRIPTION

Cambria 922 is a small dimmable LED or MR16 low voltage sign lighting luminaire. It attaches to a wall mounted straight arm and delivers full vertical adjustment for easy aiming. Optional 24", 30" or 36" straight arms are available in lieu of the standard 14-3/8" arm. Various lenses, louvers and color or dichroic filters can be combined - up to three at once - to create multiple lighting effects. Lumiere's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

Catalog #		Type	F1
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

A ... Material

Housing, hood, straight arm and wall mounting plate are precision-machined from corrosion-resistant billet stock 6061-T6 aluminum, C360 brass, C932 bronze, C110 copper or 303/304 stainless steel.

B ... Finish

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

D ... Hood

Hood is removable for easy relamping and accepts up to three internal accessories at once (lenses, louvers, filters) to achieve multiple lighting effects. Weep holes prevent water and mineral stains from collecting on the lens, even in the straight-up position.

E ... Gasket

Housing and hood are sealed with a high temperature silicone o-ring gasket to prevent water intrusion.

F ... Lens

Tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock.

G ... Adjustable Mounting Arm

Standard 14-3/8" straight arm with adjustable side swivel provides 340° of vertical adjustment for easy aiming. Center rear swivel also available and has 33-1/67" straight arm as standard, providing 195° of vertical adjustment. Optional 24", 30" or 36" straight arms are available in lieu of standard length arms (specify option -SA24, -SA30 or -SA36). Stainless steel aim-locking mechanisms are standard. 4-1/4" diameter wall mounting plate attaches directly to standard J-box with provided screws. Lumiere's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

H ... Hardware

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

I ... Socket

Ceramic socket with 250° C Teflon® coated lead wires and GU5.3 bi-pin base.

J ... Electrical

Remote 12V transformer required (not included). Transformers used in conjunction with LED's must be magnetic only, not electronic. Available from Lumiere as an accessory - see the Accessories & Technical Data section of the catalog for details.

K ... Lamp

Halogen lamp not included. Available from Lumiere as an accessory - see reverse side for details and catalog logic. LED modules are included and are available in three color temperatures (warm, neutral and cool) and three distributions (spot, narrow and flood). Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog logic. Due to the onboard thermal feedback control circuitry, LED modules are non-dimmable.

L ... Labels & Approvals

UL and cUL listed, standard wet label. IP65 rated. Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

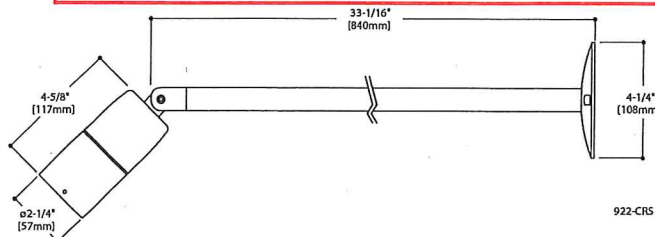
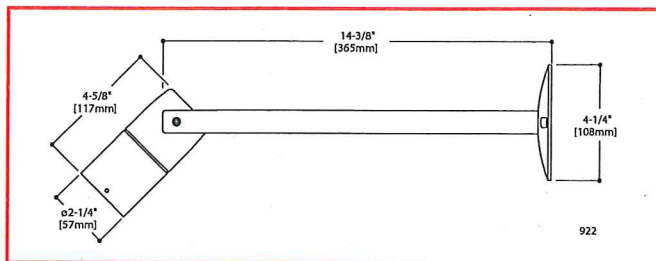
M ... Warranty

Lumiere warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.



CAMBRIA 922

10W LED
6W LED
50W (max.) MR16
LED
Halogen
Low Voltage
Sign Light



LAMP INFORMATION

Lamp	Watts	Beam Spread	CBCP	°K	Life (hrs.)	Base	Volts
6LED2712	6	12°	3358	2700	50000	GU5.3 bi-pin	12
6LED2721	6	21°	937	2700	50000	GU5.3 bi-pin	12
6LED2741	6	41°	472	2700	50000	GU5.3 bi-pin	12
6LED3012	6	12°	3694	3000	50000	GU5.3 bi-pin	12
6LED3021	6	21°	1019	3000	50000	GU5.3 bi-pin	12
6LED3041	6	41°	646	3000	50000	GU5.3 bi-pin	12
6LED4012	6	12°	4280	4000	50000	GU5.3 bi-pin	12
6LED4021	6	21°	1179	4000	50000	GU5.3 bi-pin	12
6LED4041	6	41°	754	4000	50000	GU5.3 bi-pin	12
6LED5712	6	12°	4496	5700	50000	GU5.3 bi-pin	12
6LED5721	6	21°	1275	5700	50000	GU5.3 bi-pin	12
6LED5741	6	41°	792	5700	50000	GU5.3 bi-pin	12
10LED2712	10	12°	5037	2700	50000	GU5.3 bi-pin	12
10LED2721	10	21°	1406	2700	50000	GU5.3 bi-pin	12
10LED2741	10	41°	708	2700	50000	GU5.3 bi-pin	12
10LED3012	10	12°	5513	3000	50000	GU5.3 bi-pin	12
10LED3021	10	21°	1521	3000	50000	GU5.3 bi-pin	12
10LED3041	10	41°	964	3000	50000	GU5.3 bi-pin	12
10LED4012	10	12°	6389	4000	50000	GU5.3 bi-pin	12
10LED4021	10	21°	1759	4000	50000	GU5.3 bi-pin	12
10LED4041	10	41°	1125	4000	50000	GU5.3 bi-pin	12
10LED5712	10	12°	6711	5700	50000	GU5.3 bi-pin	12
10LED5721	10	21°	1903	5700	50000	GU5.3 bi-pin	12
10LED5741	10	41°	1182	5700	50000	GU5.3 bi-pin	12
50MR16/NSP	50	12°	11,000	3050	4000	GU5.3 bi-pin	12
50MR16/NSL	50	25°	3200	3050	4000	GU5.3 bi-pin	12
50MR16/FL	50	40°	2000	3050	4000	GU5.3 bi-pin	12
50MR16/WFL	50	60°	1200	3050	4000	GU5.3 bi-pin	12

PHOTOMETRIC DATA

Cambria 922
Lamp=50MR16/NSP
(EXT)
CBCP=11,000

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	45	4'0"
10'0"	102	3'0"
8'0"	159	2'0"
6'0"	283	1'6"
4'0"	638	1'0"
2'0"	2550	0'6"

Lamp Wattage Multiplier
20W x 0.32



Cambria 922
Lamp=50MR16/NFL
(EXZ)
CBCP=3200

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	13	10'0"
10'0"	29	6'6"
8'0"	45	5'0"
6'0"	81	4'0"
4'0"	181	2'6"
2'0"	725	1'0"



Cambria 922
Lamp=50MR16/FL
(EXN)
CBCP=2000

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	7	12'0"
10'0"	17	8'0"
8'0"	27	6'6"
6'0"	48	5'0"
4'0"	106	3'0"
2'0"	431	1'6"

Lamp Wattage Multiplier
20W x 0.30
35W x 0.57



Cambria 922
Lamp=50MR16/WFL
(FNV)
CBCP=1200

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	5	17'0"
10'0"	11	11'6"
8'0"	17	9'0"
6'0"	30	7'0"
4'0"	67	4'6"
2'0"	269	2'0"



NOTES AND FORMULAS

- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.
- Bare lamp data shown. Consult lamp manufacturers to obtain detailed specifications for their lamps.

Sample Number: 922-10LED2712-120/12-BK-F70

<p>Series</p> <p>922 = LED or MR16 Cambria Sign Light, Standard 14-3/8" Straight Arm, Side Stem, Single Head</p> <p>922-CRS = LED or MR16 Cambria Sign Light, Standard 33-1/16" Straight Arm, Center Rear Swivel, Single Head</p> <p>Source</p> <p>50MR16 = 50W Max Halogen MR16, GU5.3 Base 6LED2712 = 6W 2700K, 12° Spot, GU5.3 Base 6LED2721 = 6W 2700K, 21° Narrow, GU5.3 Base 6LED2741 = 6W 2700K, 41° Wide, GU5.3 Base 6LED3012 = 6W 3000K, 12° Spot, GU5.3 Base 6LED3021 = 6W 3000K, 21° Narrow, GU5.3 Base 6LED3041 = 6W 3000K, 41° Wide, GU5.3 Base 6LED4012 = 6W 4000K, 12° Spot, GU5.3 Base 6LED4021 = 6W 4000K, 21° Narrow, GU5.3 Base 6LED4041 = 6W 4000K, 41° Wide, GU5.3 Base 6LED5712 = 16W 5700K, 12° Spot, GU5.3 Base 6LED5721 = 6W 5700K, 21° Narrow, GU5.3 Base 6LED5741 = 6W 5700K, 41° Wide, GU5.3 Base 10LED2712 = 10W 2700K, 12° Spot, GU5.3 Base 10LED2721 = 10W 2700K, 21° Narrow, GU5.3 Base 10LED2741 = 10W 2700K, 41° Wide, GU5.3 Base 10LED3012 = 10W 3000K, 12° Spot, GU5.3 Base 10LED3021 = 10W 3000K, 21° Narrow, GU5.3 Base 10LED3041 = 10W 3000K, 41° Wide, GU5.3 Base 10LED4012 = 10W 4000K, 12° Spot, GU5.3 Base 10LED4021 = 10W 4000K, 21° Narrow, GU5.3 Base 10LED4041 = 10W 4000K, 41° Wide, GU5.3 Base 10LED5712 = 10W 5700K, 12° Spot, GU5.3 Base 10LED5721 = 10W 5700K, 21° Narrow, GU5.3 Base 10LED5741 = 10W 5700K, 41° Wide, GU5.3 Base</p>	<p>Voltage</p> <p>12 = 12 Volt Remote Transformer Required</p> <p>Finish</p> <p>Painted</p> <p>BK = Black BZ = Bronze CS = City Silver VE = Verde WT = White</p>	<p>Accessories</p> <p>Filters</p> <p>F71 = Peach Dichroic Filter, 2.00" Dia F72 = Amber Dichroic Filter, 2.00" Dia F73 = Green Dichroic Filter, 2.00" Dia F74 = Medium Blue Dichroic Filter, 2.00" Dia F75 = Yellow Dichroic Filter, 2.00" Dia F76 = Red Dichroic Filter, 2.00" Dia F77 = Dark Blue Dichroic Filter, 2.00" Dia F78 = Light Blue Dichroic Filter, 2.00" Dia F79 = Neutral Density Dichroic Filter, 2.00" Dia F80 = Magenta Dichroic Filter, 2.00" Dia F22 = Red Color Filter, 2.00" Dia F33 = Blue Color Filter, 2.00" Dia F44 = Green Color Filter, 2.00" Dia F55 = Yellow Color Filter, 2.00" Dia F66 = Mercury Vapor Color Filter, 2.00" Dia</p> <p>Optical Lenses</p> <p>LSL = Linear Spread Lens (elongate standard beam spread), 2.00" Dia OSL = Overall Spread Lens (increase beam spread), 2.00" Dia DIF = Diffused Lenses (provide even illumination), 2.00" Dia</p> <p>Optical Louver</p> <p>LVR = Hex Cell Louver (reduce glare), 2.00" Dia</p>	<p>Lamps for MR16</p> <p>EZX = 20W MR16 GU5.3 Bi-Pin Very Narrow Spot BAB = 20W MR16 GU5.3 Bi-Pin Flood FRA = 35W MR16 GU5.3 Bi-Pin Spot EXT = 50W MR16 GU5.3 Bi-Pin Narrow Spot EXN = 50W MR16 GU5.3 Bi-Pin Flood ESX = 20W MR16 GU5.3 Bi-Pin Narrow Spot FRB = 35W MR16 GU5.3 Bi-Pin Narrow Spot FMW = 35W MR16 GU5.3 Bi-Pin Flood EXZ = 50W MR16 GU5.3 Bi-Pin Narrow Flood FNV = 50W MR16 GU5.3 Bi-Pin Very Wide Flood</p>
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Notes:

- Lamp not included in MR16 version.
- See ACCESSORIES & TECHNICAL DATA section of the Lumière catalog for Mounting Accessories.
- Consult your Cooper Lighting representative for additional options and finishes.



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Photometric Report (Type C)

Filename: F2_922-10LED3021.ies
[TEST] 29529
[TESTLAB] LIGHTING SCIENCES, INC.
[ISSUEDATE] 9/16/2011
[MANUFAC] COOPER LIGHTING - LUMIERE
[LUMCAT] 203-10LED
[LUMINAIRE] WITH FROSTED LENSES ON LEDS AND CLEAR FLAT
GLASS LENS
[LAMP] THREE LEDS

Maximum Candela = 1520.97 at 0 H 0 V

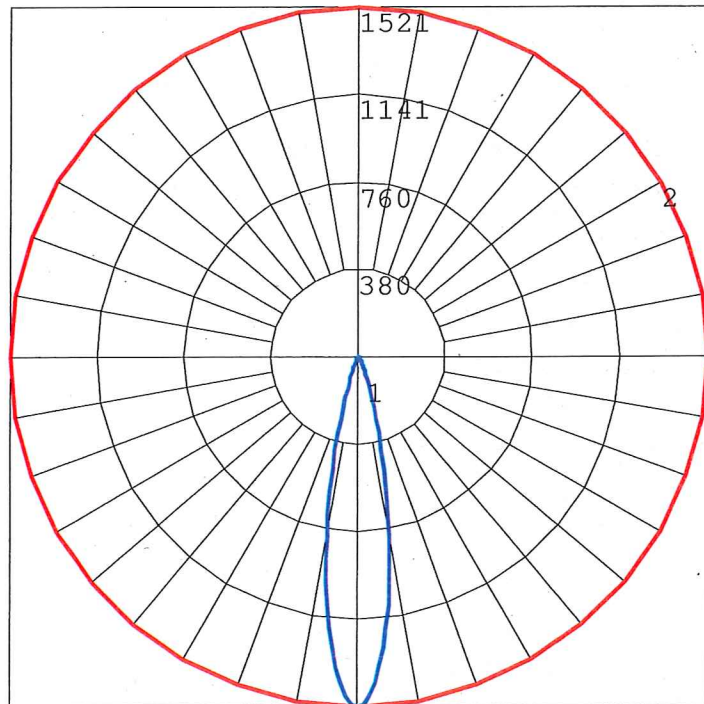
Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 26
Indoor Classification: Direct
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0 Vertical





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Photometric Report (Type C)

Filename: F2_922-10LED3021.ies
 [TEST] 29529
 [TESTLAB] LIGHTING SCIENCES, INC.
 [ISSUE DATE] 9/16/2011
 [MANUFAC] COOPER LIGHTING - LUMIERE
 [LUMCAT] 203-10LED
 [LUMINAIRE] WITH FROSTED LENSES ON LEDS AND CLEAR FLAT
 GLASS LENS
 [LAMP] THREE LEDS

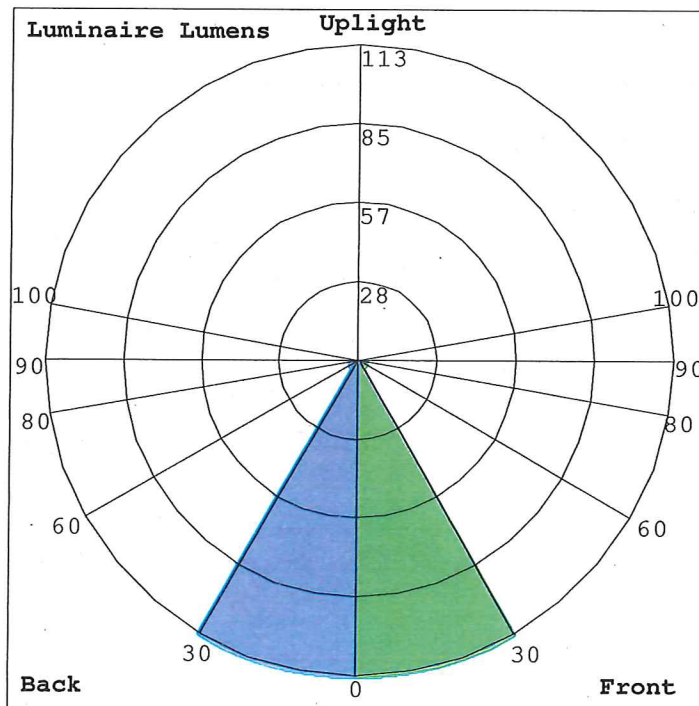
Maximum Candela = 1520.97 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
 Upward Waste Light Ratio: 0.00
 Luminaire Efficacy Rating (LER): 26
 Indoor Classification: Direct
 BUG Rating : B1-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	113.2	N.A.	48.7
FM (30-60)	3.0	N.A.	1.3
FH (60-80)	0.1	N.A.	0.0
FVH (80-90)	0.0	N.A.	0.0
BL (0-30)	113.2	N.A.	48.7
BM (30-60)	3.0	N.A.	1.3
BH (60-80)	0.1	N.A.	0.0
BVH (80-90)	0.0	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	232.6	N.A.	100.0
BUG Rating	B1-U0-G0		



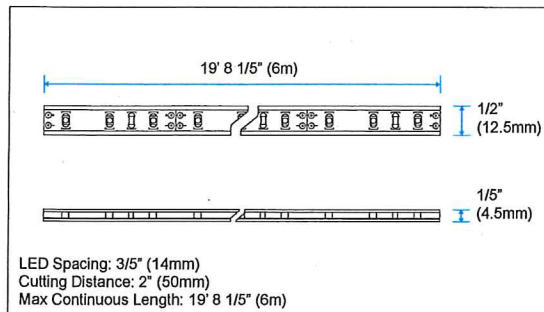
SPECIFICATION

Dimmable Wet Location LED Linear Flex System:

AQUAFLEX provides stable, consistent, energy efficient, ultra flexible solid state lighting. With a super low-profile it is able to meet any custom length at the designated cutting points. AQUAFLEX is housed in a high quality silicone sleeve and is supplied with mounting clips and end caps for simple installation. See MODA Metal for extrusion options.



Dimensions:



Output:

Delivered Lumens	127.52 lm / ft
CCT	3000k
Chromaticity Ordinates	x: 0.4445 y: 0.4288 u: 0.2450 v: 0.5318
Color Bin Tolerance	+ 3% / - 3%
Efficacy (lm/w)	86.16
CRI	82
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 Hours L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

Illuminance at a Distance: Data Shown for 120°

(For lux multiply fc by 10.7)

	Center Beam FC	Beam Width	
2.0 ft	11.32 fc	5.7 ft	5.7 ft
4.0 ft	2.83 fc	11.4 ft	11.4 ft
6.0 ft	1.26 fc	17.1 ft	17.1 ft
8.0 ft	0.71 fc	22.8 ft	22.8 ft
10.0 ft	0.45 fc	28.5 ft	28.5 ft
12.0 ft	0.31 fc	34.2 ft	34.2 ft

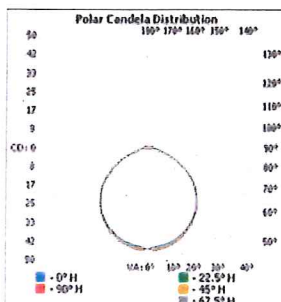
■ Vert. Spread: 109.9° ■ Horiz. Spread: 109.9°

Electrical:

Input Voltage	12v DC
Power Consumption	1.48w / ft (0.12A) - Varies based on length of run & driver
Power Factor	≤ 1
Dimming	100-277v 0-10v & Magnetic Low Voltage
Emergency	N/A

Polar Candela Distribution:

Data Shown for 120°



Lumens per Zone:

Zone	Lumens	% Total
0-10	4.28	3.36%
10-20	12.30	9.65%
20-30	18.69	14.66%
30-40	22.59	17.71%
40-50	23.29	18.26%
50-60	20.40	16.00%
60-70	13.91	10.91%
70-80	6.27	4.92%
80-90	2.25	1.76%
90-100	1.27	1.00%

Physical:

Applications	Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 19' 8 1/5" (6m) Width 1/2" (12.5mm) Height 1/5" (4.5mm)
Weight	14.4 oz (408.2g) Per Reel
Construction	Constant Voltage Design Protects LEDs And Prolongs Life. White FPCB Inside a Silicone Sleeve
Thermal Management	N/A
Optics	N/A
Fixture Connections	Solder joints
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Humidity	0-95% Non Condensing

Project Name:	Company:	P/O:	Type:	Date:
Notes:				

SPECIFICATION

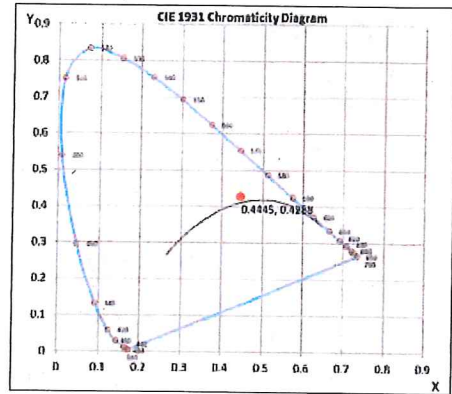
Zonal Lumen Summary:

Zone	Lumens	% Lamp	% Fixt
0-30	35.28	N.A.	27.70%
0-40	57.87	N.A.	45.40%
0-60	101.55	N.A.	79.60%
60-80	20.18	N.A.	15.80%
0-90	123.99	N.A.	97.20%
90-180	3.53	N.A.	2.80%
0-180	127.52	N.A.	100%

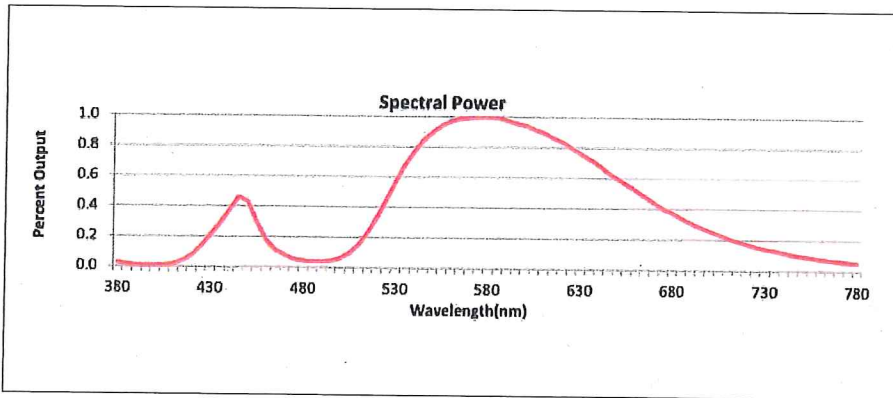
Luminance Data (cd/sq.m):

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12047	9044	8217
55	11159	7593	6678
65	9023	5416	4654
75	4849	2698	2366
85	3674	1272	1072

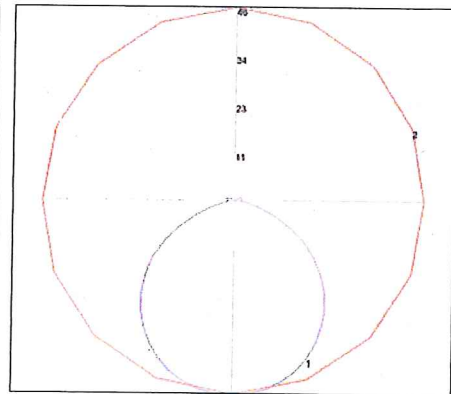
CIE 1931 Chromaticity Diagram:



Spectral Power:



Polar Graph: Data Shown for 120°



Accessories:

MRT50 Mounting Clips (20 Clips Supplied With Reel)	MRT51 Silicon Glue (1 Tube Supplied With Reel)	MRT52 End Cap (4 Caps Supplied With Reel)	MP16 12v DC 132w	MP18 12v DC 50w	MP82 12v DC 150w	MP82-277v 12v DC 150w
Screws Into Surface To Hold AQUAFLEX	Applied Between AQUAFLEX and Connectors or Caps to Seal From Exposure	Attaches To AQUAFLEX To Protect FPCB From Dust or Water	Wet Location LED Power Supply	0-10v Dimming LED Power Supply	MLV Dimming LED Power Supply	MLV Dimming LED Power Supply
L: 1 1/5" (30mm) W: 1/5" (6mm) H: 1/5" (5mm) 2 Screws 1/2" (13mm)		L: 3/5" (15mm) W: 1/5" (5mm) H: 1/5" (5mm)	Non-Dimmable			

Standards and Certifications:

Certification	Tested to UL & CSA by ETL For Use in USA & CANADA, Complies with California Title 24 Requirements, Lighting Facts. Exceeds ANSI C78.377A, CE & RoHS Compliant.
Class	Class III
Environment	Wet Location - IP67
Warranty	5 Year Limited Warranty

Ordering:

SKU:	AQUAFLEX-3000K
------	-----------------------



MODA Products are protected under Worldwide Patents. Minimum order quantity may apply. Due to continuous improvements and innovations, specifications may change without notice. Please refer to our website for current technical data. These figures are provided as a guideline only and may vary with differing power supplies and installations. All rights reserved. E. & O.E.

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Photometric Report (Type C)

Filename: F3_aquaflex-3000k.ies
[TEST] L04132233
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUE DATE] 04/16/2013
[MANUFAC] MODA LIGHT
[LUMCAT] AQUAFLEX-3000K
[LUMINAIRE] 12"L. X 1/2"W. X 3/16"H. POLYEPOXIDE
LINEAR FLEX LEDs CLEAR LENS
[LAMP CAT] N/A

Maximum Candela = 45.55 at 90 H 5 V

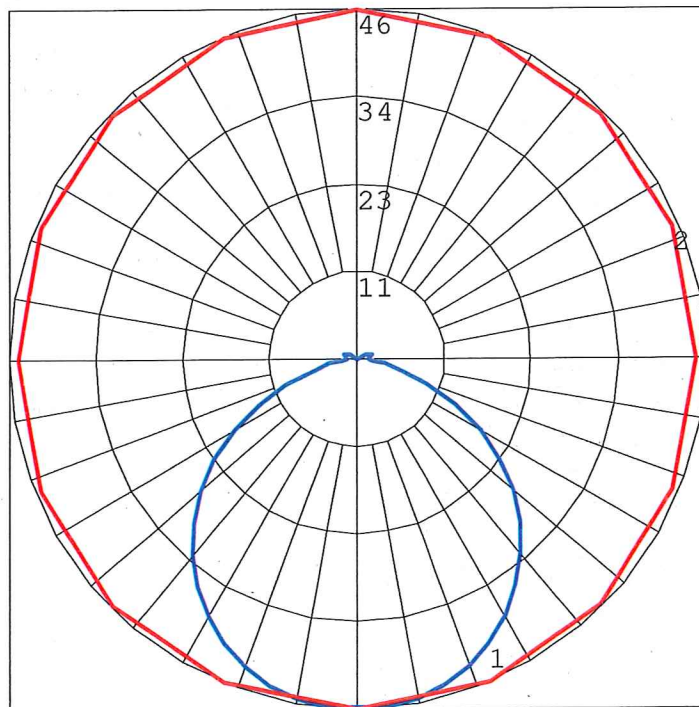
Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.03
Luminaire Efficacy Rating (LER): 43
Indoor Classification: Direct
BUG Rating : B0-U1-G0

Polar Candela Curves:

Vertical Plane Through:
1) 90 - 270 Horizontal

Horizontal Cone Through:
2) 5 Vertical





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Photometric Report (Type C)

Filename: F3_aquaflex-3000k.ies
[TEST] L04132233
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUE DATE] 04/16/2013
[MANUFAC] MODA LIGHT
[LUMCAT] AQUAFLEX-3000K
[LUMINAIRE] 12"L. X 1/2"W. X 3/16"H. POLYEPOXIDE
LINEAR FLEX LEDs CLEAR LENS
[LAMPCAT] N/A

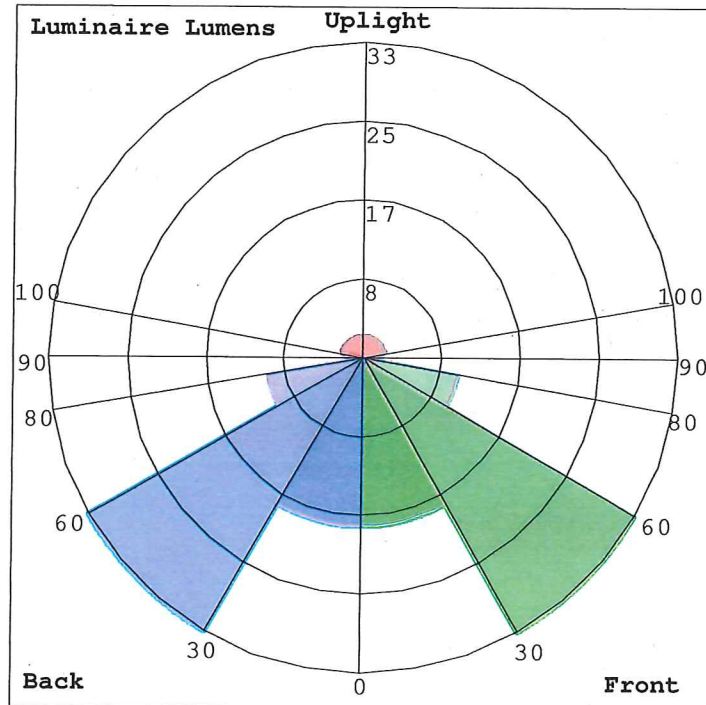
Maximum Candela = 45.55 at 90 H 5 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.03
Luminaire Efficacy Rating (LER): 43
Indoor Classification: Direct
BUG Rating : B0-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	17.6	N.A.	13.8
FM (30-60)	33.1	N.A.	26.0
FH (60-80)	10.1	N.A.	7.9
FVH (80-90)	1.1	N.A.	0.9
BL (0-30)	17.6	N.A.	13.8
BM (30-60)	33.1	N.A.	26.0
BH (60-80)	10.1	N.A.	7.9
BVH (80-90)	1.1	N.A.	0.9
UL (90-100)	1.3	N.A.	1.0
UH (100-180)	2.3	N.A.	1.8
Total	127.4	N.A.	100.0
BUG Rating	B0-U1-G0		



CR6™

6" LED Downlight

Product Description

The CR6™ LED downlight delivers up to 800 lumens of exceptional 90+ CRI light while achieving up to 67 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology. The CR6 is available in a warm color temperature and has a variety of trim options. It easily installs into most standard six-inch recessed IC or non-IC housings, making the CR6 perfect for use in both residential and light commercial, new construction or retrofit, applications.

Performance Summary

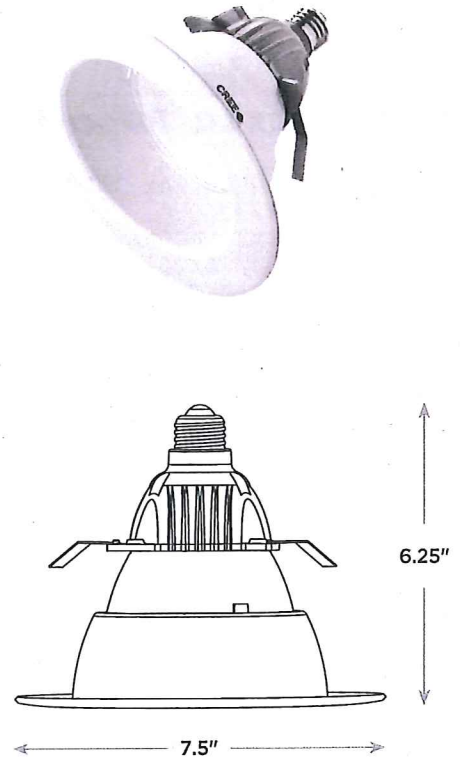
- Utilizes Cree TrueWhite® Technology
- Delivered Light Output: 625, 800 lumens
- Input Power: 9.5, 12 watts
- CRI: 90
- CCT: 2700K, 3000K, 3500K, 4000K
- Limited Warranty*: 5 years
- Lifetime: Designed to last 50,000 hours
- Dimming: Dimmable to 5%*

Housings & Accessories

Reference Housing & Accessory documents for more details.

Trims & Reflectors	
CT6A Diffuse silver reflector	CT6AB Diffuse black reflector
CT6AW Diffuse wheat reflector	CT6BB Flat black flange and reflector

Housings (GU24 Only)	
H6 Architectural	SC6 Cylindrical Surface Mount
RC6 New Construction	SC6-CM Cylindrical Cord Mount
RR6 Retrofit	SC6-WM Cylindrical Wall Mount



Ordering Information

Example: CR6-625L-27K-12-E26

QUICKSHIP™

For full list of Cree Quick Ship products visit www.cree.com/lighting/quickship

CR6				12	
Series	Size	Source Lumen Output	CCT	Voltage	Base Type
CR6	6 6 inch	625L 625 Lumens 800L 800 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	12 120 Volts	E26 Edison Base GU24 GU24 Base (Title 24 Compliant)

* See www.cree.com/lighting/products/warranty for warranty terms

* Reference www.cree.com/lighting for recommended dimmers



Rev. Date V2 08/25/2014



CR6™

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics, and lifelong color consistency, all while maintaining high luminous efficacy - a true no compromise solution.

CONSTRUCTION & MATERIALS

- Durable upper housing protects LEDs, driver and power supply. Adjustable flip clips resist heat while providing retention for flush ceiling fit.
- Thermal management system uses both upper housing and lower reflector to conduct heat away from LEDs and transfer it to the plenum space for optimal performance. LED junction temperatures stay below specified maximum even when installed in insulated ceilings.
- Suitable for insulated and non-insulated ceilings
- One-piece aluminum lower reflector redirects light while also conducting heat away from LEDs. It creates a comfortable visual transition from the lens to the ceiling plane and easily accommodates CR6 snap-in trims

OPTICAL SYSTEM

- Unique combination of reflective and refractive optical components achieves a uniform, comfortable appearance while eliminating pixelation and color fringing. This ensures smooth light patterns are projected with no hot spots and minimal striations
- Components work together to optimize distribution, balancing the delivery of high illuminance levels on horizontal surfaces with an ideal amount of light on walls and vertical surfaces. This increases the perception of spaciousness
- Diffusing lens shields direct view of LEDs while lower reflector balances brightness of lens with the ceiling to create a low-glare high angle appearance

ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply
- Power Factor: > 0.9
- Input Voltage: 120V, 60Hz
- Dimming: Dimmable to 5% with most incandescent dimmers*

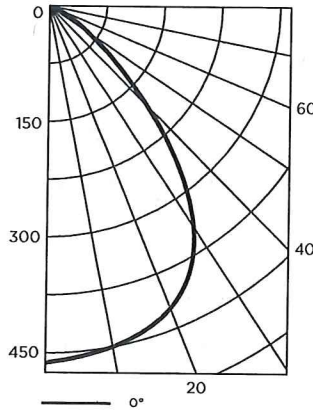
REGULATORY & VOLUNTARY QUALIFICATIONS

- ENERGY STAR® qualified
- cULus Listed
- Exceeds California Title-24 high efficacy luminaire requirements
- Suitable for wet locations

* Reference www.cree.com/lighting for recommended dimmers

Photometry

CR6 BASED ON ONSPEX REPORT #: 30014047-3
CR6-625L: MULTIPLY BY 0.78



Intensity (Candlepower) Summary

Angle	Mean CP
0°	456
5°	453
15°	432
25°	386
35°	293
45°	174
55°	85
65°	42
75°	25
85°	6
90°	0

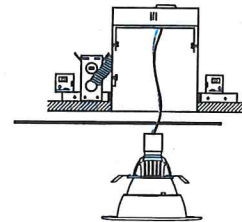
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fix
0-30	336	42.10%	42.10%
0-40	516	64.60%	64.60%
0-60	724	90.60%	90.60%
0-90	800	100%	100%

Reference www.cree.com/lighting for detailed photometric data.

Installation

- Designed to easily install in standard 6" downlight housings from Cree and other manufacturers*
- Quick install system utilizes a unique retention feature. Simply attach socket to CR6. Move light to ready position and slide into housing



NOTE: Reference www.cree.com/lighting for detailed installation instructions.

*Reference www.cree.com/lighting for a list of compatible housings

Application Reference

Open Space					
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4 x 4	625	9.5	61	0.60	36
6 x 6				0.28	18
8 x 8				0.15	10
10 x 10				0.10	7
4 x 4	800	12	67	0.76	47
6 x 6				0.35	22
8 x 8				0.19	13
10 x 10				0.13	8

10' Ceiling, 80/50/20 Reflectances, 2.5 workplane.
LLF: 1.0 Initial. Open Space: 50' x 40' x 10'

Corridor					
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4' on Center	625	9.5	61	0.40	13
6' on Center				0.27	9
8' on Center				0.20	7
10' on Center				0.17	6
4' on Center	800	12	67	0.51	17
6' on Center				0.34	11
8' on Center				0.25	8
10' on Center				0.21	7

10' Ceiling, 80/50/20 Reflectances, Light levels on the ground.
LLF: 1.0 Initial. Corridor: 6' Wide x 100' Long

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Photometric Report (Type C)

Filename: F4_CR6-625L LED Downlight IES Files.IES
[TEST] 11646-G
[TESTLAB] Cree Inc. - Durham Technology Center
[ISSUEDATE] 9/26/2012
[MANUFAC] Cree Lighting - Recessed Downlight
[LUMCAT] ECO-575L (CR6Y)
[LUMINAIRE] With Flat Diffused Plastic Lens and White Trim
[LAMPCAT] True White Technology Array. LUMINAIRE
OUTPUT = 594 LMS.
[LAMP] Cree LED

Maximum Candela = 392.3 at 0 H 0 V

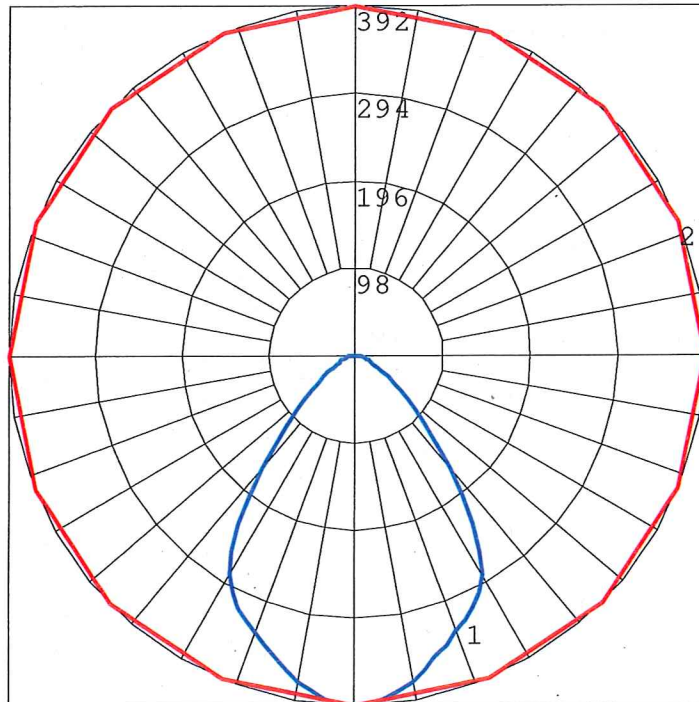
Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 62
Indoor Classification: Direct
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0 Vertical





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Photometric Report (Type C)

Filename: F4_CR6-625L LED Downlight IES Files.IES
[TEST] 11646-G
[TESTLAB] Cree Inc. - Durham Technology Center
[ISSUEDATE] 9/26/2012
[MANUFAC] Cree Lighting - Recessed Downlight
[LUMCAT] ECO-575L (CR6Y)
[LUMINAIRE] With Flat Diffused Plastic Lens and White Trim
[LAMPCAT] True White Technology Array. LUMINAIRE
OUTPUT = 594 LMS.
[LAMP] Cree LED

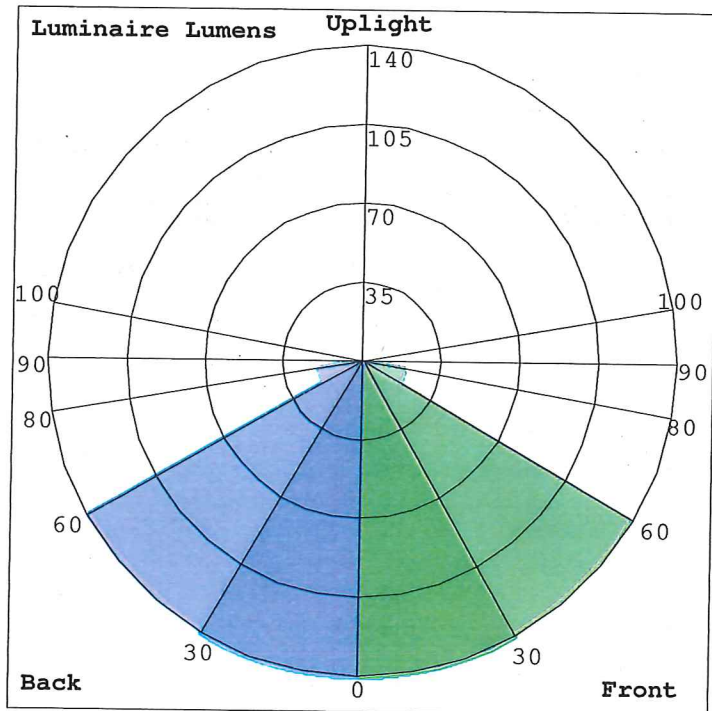
Maximum Candela = 392.3 at 0 H 0 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 62
Indoor Classification: Direct
BUG Rating : B1-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	139.6	N.A.	23.5
FM (30-60)	137.6	N.A.	23.1
FH (60-80)	18.9	N.A.	3.2
FVH (80-90)	1.4	N.A.	0.2
BL (0-30)	139.6	N.A.	23.5
BM (30-60)	137.6	N.A.	23.1
BH (60-80)	18.9	N.A.	3.2
BVH (80-90)	1.4	N.A.	0.2
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	595.0	N.A.	100.0
BUG Rating	B1-U0-G0		



lumière

DESCRIPTION

Eon 303 - B1 and 303 - B2 are compact, low profile, dimmable, LED bollards that provide downlight only via a fixed head. 303 - B1 has a single head on one side of the luminaire and 303 - B2 has two, integrated heads coming off opposite sides of the luminaire. 303 - B1 and 303 - B2 come standard with universal input LED drivers (120 - 277V, 50/60 Hz). Dimming is achieved with a standard ELV, reverse phase dimming driver. Eon fixtures may be used indoors or outdoors and carry an IP66 rating. Our patented LumaLevel™ leveling system provides quick installation, easy adjustment, secure mounting and protection from vibration.

Catalog #		Type
Project	The Glen	F5
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Material

Head is precision-machined from corrosion-resistant 6061-T6 aluminum. Body is extruded aluminum and mounting base is cast from corrosion resistant silicone aluminum alloy.

B ... Finish

Fixture and mounting base are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. Mounting base is painted black. Fixture housing and head are available in a variety of standard colors. In addition to the standard five colors offered by Lumiere, the Eon bollards are also available in colors to match other outdoor Cooper brands, such as Invue. See the Finish section in the ordering detail for more information.

C ... Lens

Clear, tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock. EDGE LIT option: when specified with the EDGE option, the glass will be slightly thicker, clear, tempered and sealed in the same manner referenced above. The added glass thickness will offer a brighter line of light around the edge of the glass that will accentuate the fixture's aesthetics and styling.

D ... Adjustable Mounting Base

Cast aluminum mounting base is equipped with the patented LumaLevel™ leveling system that includes mounting chassis, 70 shore neoprene base, stainless steel hardware and 3/4" conduit entry. It provides quick installation, easy adjustment, secure mounting and protection from vibration.

E ... Hardware

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

F ... Electrical

Both models come standard with universal input LED drivers (120-277, 50/60Hz). The standard driver is ELV reverse phase dimmable.

G ... LED

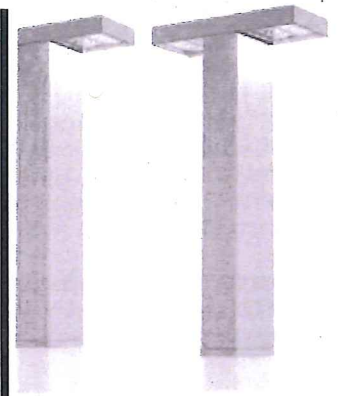
LEDs are included and available in three color temperatures (2700K, 3000K & 4000K) and a variety of optics. Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog logic. 303 - B1 comes standard with two mini lightbars and 303 - B2 comes standard with four mini lightbars.

H ... Labels & Approvals

UL and cUL listed, standard wet label. IP66 rated.

I ... Warranty

Lumiere warrants its fixtures against defects in materials & workmanship for five (5) years. Auxiliary equipment such as transformers, ballasts and LED drivers carry the original manufacturer's warranty.



EON

303-B1 / 303-B2

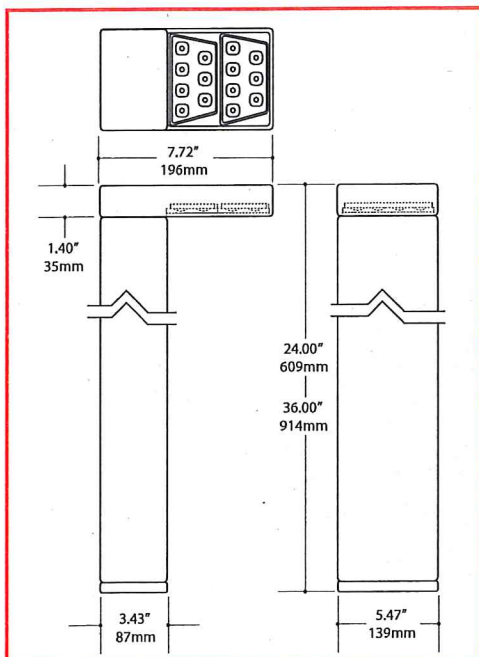
15.5 W LED
31 W LED

LED

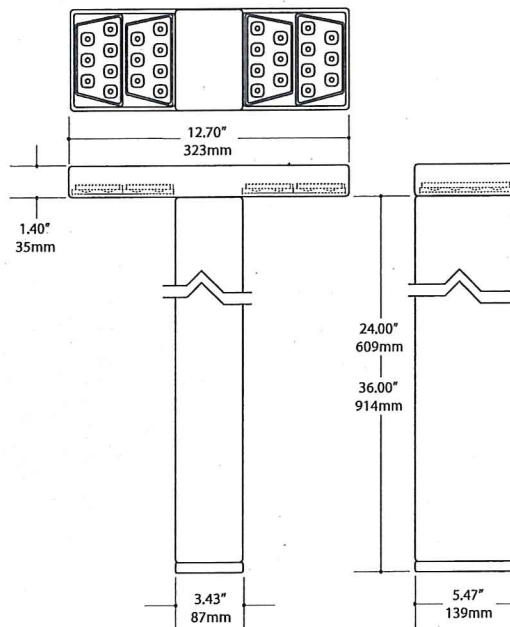
BOLLARD

IP66

303-B1



303-B2



LED INFORMATION

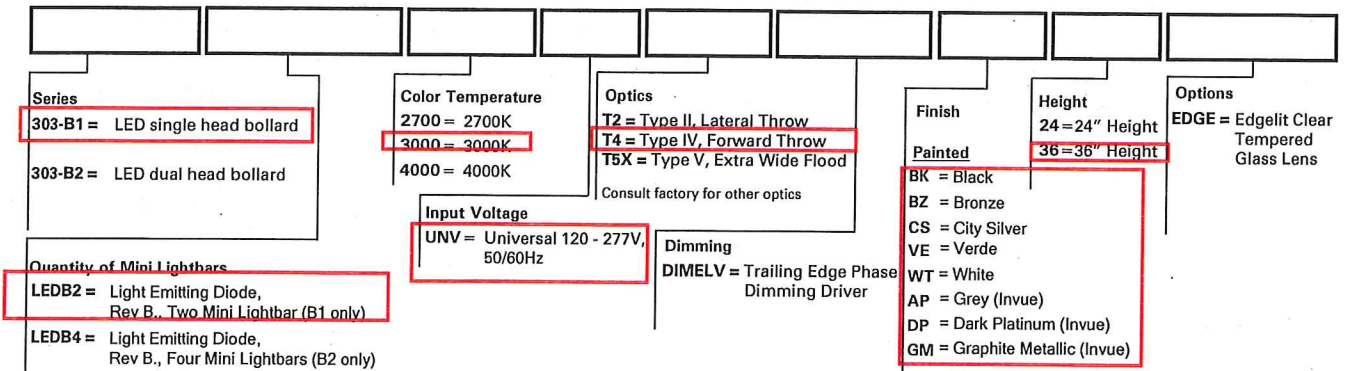
LED	Watts	Distribution	Total Lumens	CRI	°K	Life (hrs.)	Volts
LEDB2 - 2700 - T2	15.5	Type II - Lateral Throw	725	95	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 2700 - T4	15.5	Type IV - Forward Throw	709	85	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 2700 - T5X	15.5	Type V - Flood	626	65	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - T2	15.5	Type II - Lateral Throw		95	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - T4	15.5	Type IV - Forward Throw		85	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - T5X	15.5	Type V - Flood		65	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - T2	15.5	Type II - Lateral Throw	1209	95	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - T4	15.5	Type IV - Forward Throw	1181	85	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - T5X	15.5	Type V - Flood	1044	65	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T2	31	Type II - Lateral Throw	1436	95	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T4	31	Type IV - Forward Throw	1410	85	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T5X	31	Type V - Flood	1247	65	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - T2	31	Type II - Lateral Throw		95	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - T4	31	Type IV - Forward Throw		85	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - T5X	31	Type V - Flood		65	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - T2	31	Type II - Lateral Throw	2393	95	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - T4	31	Type IV - Forward Throw	2350	85	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - T5X	31	Type V - Flood	2078	65	4000	50000	Universal Input (120 - 277V, 50/60Hz)

NOTES AND FORMULAS

- Apply appropriate light loss factors where necessary.
- Photometry is LM-79 compliant.

ORDERING INFORMATION

Sample Number: 303 - B1 - LEDB1 - 3000 - UNV - T2 - BZ





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sample number copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: 303-B1-T4.IES

[TEST] ITL73544

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE] 07/09/12

[MANUFAC] COOPER LIGHTING - LUMIERE

[LUMCAT] 303-B1 TYPE IV

[LUMINAIRE] FABRICATED BLACK PAINTED METAL LOWER

HOUSING, CAST BLACK PAINTED METAL OPTICAL ASSEMBLY

CONSISTING OF 2 OPPOSING LIGHT HEADS, EACH LIGHT HEAD CONSISTING OF: CAST METAL CIRCUIT BOARD MO

[LAMP] FOURTEEN WHITE LIGHT EMITTING DIODES (LEDS)

EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL
BASE-UP POSITION.

Maximum Candela = 743 at 46 H 65 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 76

Indoor Classification: Direct

BUG Rating : B0-U0-G0

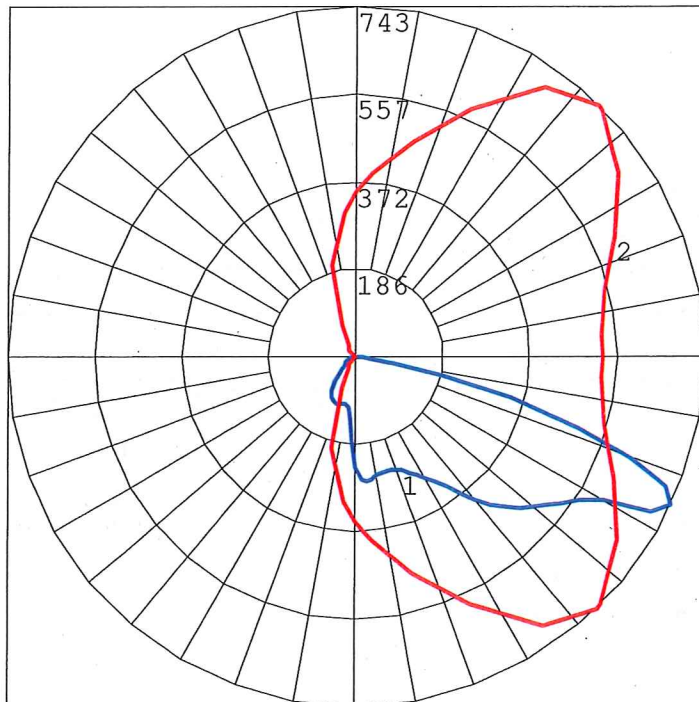
Polar Candela Curves:

Vertical Plane Through:

1) 46 - 226 Horizontal

Horizontal Cone Through:

2) 65 Vertical





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Photometric Report (Type C)

Filename: 303-B1-T4.IES
 [TEST] ITL73544
 [TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.
 [ISSUEDATE] 07/09/12
 [MANUFAC] COOPER LIGHTING - LUMIERE
 [LUMCAT] 303-B1 TYPE IV
 [LUMINAIRE] FABRICATED BLACK PAINTED METAL LOWER HOUSING, CAST BLACK PAINTED METAL OPTICAL ASSEMBLY CONSISTING OF 2 OPPOSING LIGHT HEADS, EACH LIGHT HEAD CONSISTING OF: CAST METAL CIRCUIT BOARD MO [LAMP] FOURTEEN WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

Maximum Candela = 743 at 46 H 65 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
 Upward Waste Light Ratio: 0.00
 Luminaire Efficacy Rating (LER): 76
 Indoor Classification: Direct
 BUG Rating : B0-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	111.3	N.A.	9.4
FM (30-60)	467.5	N.A.	39.6
FH (60-80)	401.3	N.A.	34.0
FVH (80-90)	8.8	N.A.	0.7
BL (0-30)	46.0	N.A.	3.9
BM (30-60)	95.6	N.A.	8.1
BH (60-80)	48.6	N.A.	4.1
BVH (80-90)	1.4	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1180.5	N.A.	100.0
BUG Rating	B0-U0-G0		

