URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

This form may also be completed online at:
http://www.cityofmadison.com/planning/documents/UDCapplication.pdf

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

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: APRIL 27, 2016	☐ Informational Presentation
UDC Meeting Date: MAY 11, 2016	☐ Initial Approval
Combined Schedule Plan Commission Date (if applicable): APPROVED 4·18·16	☒ Final Approval

1. Project Address: 722 WILLIAMSON STREET, MADISON, WI 53703
Project Title (if any): 722 WILLIAMSON STREET DEVELOPMENT.

2. This is an application for (Check all that apply to this UDC application):

☒ **New Development** ☐ **Alteration to an Existing or Previously-Approved Development**

A. Project Type:

☐ **Project in an Urban Design District*** (public hearing-$300 fee)
☐ **Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX)** ($150 fee, Minor Exterior Alterations)
☐ **Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District (EC)**
☒ **Planned Development (PD)**
  ☒ **General Development Plan (GDP)**
  ☒ **Specific Implementation Plan (SIP)**
☐ **Planned Multi-Use Site or Planned Residential Complex**

B. Signage:

☐ **Comprehensive Design Review*** (public hearing-$300 fee) ☐ **Street Graphics Variance*** (public hearing-$300 fee)
☐ **Signage Exception(s) in an Urban Design District** (public hearing-$300 fee)

C. Other:

☐ **Please specify:**

3. Applicant, Agent & Property Owner Information:

Applicant Name: MARC SCHELLPFEFFER
Company: CAS4 ARCHITECTURE LLC
Street Address: 303 S. PATERSON ST. STE 1
City/State: MADISON Zip: WI
Telephone: (608) 709-1250 Fax: ( )
Email: marc@cas4arch.com

Project Contact Person: LANCE MCGRATH
Company: MCGRATH PROPERTY GROUP
Street Address: 222 S. BEDFORD ST. STE A
City/State: MADISON, WI Zip: 53703
Telephone: (608) 345-3975 Fax: ( )
Email: lance.mcgrath@mcgrathpropertygroup.com

Project Owner (if not applicant): LANCE MCGRATH
Street Address:
City/State: Zip:
Telephone: ( ) Fax: ( )
Email:

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with INITIAL UDC APPROVAL. (name of staff person) on 4.6.16 (date of meeting).

B. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of Applicant MARC SCHELLPFEFFER Relationship to Property ARCHITECT

Authorized Signature Date 4.27.16

222 SOUTH BEDFORD STREET • SUITE A • MADISON, WI • 53703

608.616.0705 • WWW.McGRATHPROPERTYGROUP.COM

February 17, 2016
Revised April 22, 2016

Katherine Cornwell
City of Madison
Department of Planning & Community & Economic Development
115 Martin Luther King Jr. Blvd.
Suite LL 100, Madison Municipal Building
Madison, WI 53703

RE: LETTER OF INTENT
NEW MIXED USE DEVELOPMENT
722 WILLIAMSON STREET
MADISON, WI 53703

Dear Ms. Cornwell,

The following is submitted together with the subdivision application, associated plans and documents for review by City Staff, the Landmarks Commission, the Urban Design Commission, the Plan Commission and the City Council for consideration of approval.

PROJECT TEAM:

Developer: McGrath Property Group, 222 S. Bedford St. Suite A, Madison, WI 53703
Architect: CaS4 Architecture, 303 S. Paterson St, Madison, WI 53703
Landscape Arch: Ken Saiki Design, 303 S. Paterson St, Madison, WI 53703
Civil Engineer: Vierbicher, 999 Fourier Dr. Suite 201, Madison, WI 53717

PROJECT OVERVIEW:

The proposed project consists of three parts:

1. A significant environmental remediation will be performed involving the excavation and proper disposal of on-site heating oil contaminated soils. A Brownfield Grant from the State of Wisconsin and PECFA funds will be used to pay for the majority of the costs incurred for this work.
2. A gut renovation of the existing 4-story, circa 1914 "Olds Seed Building" will be completed - converting it from its current office use into a "Concrete Loft" mixed-use building with 45 residential units and approximately 7,200 SF of commercial space on the first level fronting on Williamson Street.

3. Construction of a new 5-story, 96-unit residential building on the rear portion of the property flanking the bike path. This building will contain 2 levels of parking (one below grade and one above grade) with 4 stories of wood frame apartments above.

Specific building areas and other pertinent information is provided on the attached plans. No public subsidy is being requested for this project.

SITE:

The project is located on Lot 1 of Certified Survey Map No. 13306 (See Exhibit A) and consists of 64,689 SF (1.485 Acres). It is a uniquely shaped "thru-block" (has frontages on two parallel city right-of-ways), with approximately 198 FT of frontage along Williamson St and approximately 297 FT of Frontage on the unimproved East Wilson St. Right-of-Way. There is currently one 4-story building surrounded by approximately 50,000 SF of asphalt parking lot.

The project is located in the 6th Aldermanic District, Marquette Neighborhood and the Third Lake Ridge Historic District. It is currently zoned Traditional Shopping Street (TSS), HIS-TL.

NEIGHBORHOOD INPUT:

The project is located in the Marquette Neighborhood Association (MNA). City staff, the Alder and the MNA were notified in writing of this project on December 9, 2015. A public notice neighborhood meeting was held on January 7, 2016 and the MNA Preservation & Development Committee formed a sub-committee to review the project. The development team has met and shared information with this sub-committee and will continue to meet on an as-needed basis as the final details of the project are worked thru.

ZONING:

The proposed project is predominantly consistent with the current TSS zoning with the exception of the required set backs. However, in order to facilitate this unique development the project requires a certain degree of zoning flexibility. Therefore, it is necessary to rezone the site from its current TSS zoning to Planned Development District (PD). The following necessitates the rezoning of the site from TSS to PD:

1. Due to the unique geometry and the thru-block configuration of the site, the set back requirements of the TSS District unreasonably restricts development of the site.
2. The historic preservation of the Olds Building is cost intensive and is supported by the density of the new construction portion of the project.
3. The combined project results in the environmental remediation of the site.
4. The redevelopment of the site extends the life of a 100-year old building for at least another 100-years and engages and activates both buildings and the site with Williamson St. Transforming it from a black hole of activity to a vibrant and engaging streetscape.

The proposed project is generally consistent with neighborhood plans and other city plans.

ARCHITECTURE:

The development at 722 Williamson Street provides a unique opportunity to utilize one of the few older concrete framed warehouse buildings in Madison, The Olds Seed Building, and an adjacent open site along the bike path. The challenge of this particular site is creating a new building along what is essentially the rear yard of the site as it relates to Williamson Street and still provide for an active and engaging pedestrian experience and approach to the overall development and the housing component at the rear of the site.

The overall development is comprised of 141 total residential units, 96 in the new building adjacent to the bike path and 45 within the Olds Seed Building, and approximately 7,200 square feet of commercial space on the grade floor of the Olds Seed Building. The overall development is supported by 115 interior vehicle parking stalls on two levels within the new building to the rear of the site and 25 surface parking spaces. Bike parking is provided in several areas throughout the site and includes 32 exterior stalls and 154 interior stalls. To utilize the adjacency to the bike path we are working with the City to create a connection from the site to the path. As part of this connection we are looking to potentially incorporate a B-cycle station as well as a bike maintenance station within a light steel structure that defines and establishes a sense of entry to the development and neighborhood and begins to relate to the detailing we are suggesting for the promenade along the east face of the Olds Seed Building. Other bike parking for visitors of the residential component is located near the entry that we refer to as the lantern and bike parking for commercial use is located up along Williamson Street and along the promenade at the east face of the Olds Seed Building. In all we have 32 bike parking stalls to be used by visitors to the site. The bike parking required for the residential component of the project will be housed within the parking structure of the new building as well as the lower level of the Olds Building which will be connected to the below grade parking level.

The concept for allowing the pedestrian to engage the new building to the rear of the site and allow for activity to penetrate into the depth of the site is accomplished by two means. First is to activate the east face of the Olds Seed Building with what we are calling the "Promenade." The promenade is articulated and designed to suggest an old activated loading dock feel off the east face of the building. The components would render a light steel framed condition that would be traditionally appropriate for this building type and use. The promenade serves two functions; first is that it provides the ability to create outdoor space and activate the commercial spaces along the east face of the Olds Seed Building and the other is that it sets up an axial path pulling pedestrian traffic off of Williamson Street back to the main residential entry for both the new building and the residence of the Olds Seed Building. This entry is the second means to draw pedestrian traffic back in to the depth of the site. The residential entry is rendered as a two-story glass box identified as the "lantern". The lantern provides a terminus for the promenade and visually connects the pedestrian from the street back in to the site. The lantern also serves as the residential community hub; this is the location of all mail delivery for the residential component of the project as well as the main communal spaces for all residence. On the first floor of the lantern is a small lobby/waiting lounge for residence to greet guests. A grand stair case allows for connection from the first floor up to the second level of the lantern that houses a main communal lounge and game area as well as a two sided fireplace that connects to the second floor outdoor terrace space. This outdoor space will provide for outdoor bocce as well as grilling and lounge spaces for residence to utilize and socialize.

When looking at the two buildings the intent for the Olds Seed Building is take the interior of the building back to the concrete framed warehouse building it was originally rendered as and develop the upper three floors as concrete loft apartments. The grade level floor will be revitalized in a similar manner with the hope of attracting local tenants that will utilize the large clear space that the building offers. Exterior restoration of the main façade along Williamson Street will include some tuck pointing of the existing masonry façade as well as removal of the current windows and some EIFS infill to restore the façade back to its original layout of storefront on the grade level along Williamson Street. This will allow for an active and engaging streetscape and more appropriate window infill on the upper levels of the building. Currently on the three off street facades the building is clad in EIFS. This system was installed in the

early 1980s and was installed without a drainage layer as today's EIFS systems are detailed. Looking at how the current EIFS was installed and seeing noticeable cracking within the system we are assuming some water has gotten behind the system with no way to escape except back through the masonry wall. Based on the application of the existing EIFS and the moisture that has penetrated the system over the years we are assuming this has made the brick behind the system not viable or appropriate to expose to the exterior. The moisture along with the insulation that has been fastened directly to the masonry has more than likely destroyed the weathering capability of the masonry infill. We will be removing the existing EIFS and replacing it with a system that incorporates a drainage layer. The benefit to this solution is that we are able to insulate a building that was designed without insulation in mind and expose the masonry from the interior within the residential units where feasible to enhance the loft and residential experience. This exterior system will also continue to protect a building with great bones for many years to come. Along with replacing the cladding we will be replacing all of the windows and creating a few new window openings along the rear corners of both the east and the west elevations to allow additional windows in to some of the residential units.

The new building is rendered to be sympathetic to its neighboring structures in scale, proportion and materiality; it is not trying to mimic or pretend to be an old historic structure. The scale of the building is broken down by changes in material, and shifting in the form of the overall mass, of the building. Placement and scale of balconies is used to further articulate the façade of the building and provide a point of relief in the change in materials and mass of forms. Fenestration within the building is proportional to the openings that are found on adjacent building to the site and provides the residential units with monumental single hung windows within the main living spaces of the units. The repetitive rhythm of the openings reflects the simplicity and rhythm of the surrounding buildings. We are proposing two types of masonry; one that is buff tone to relate to some of the structures to the east and a second in a tone that is complementary to the Olds Seed Building. Both bricks will be modular in scale as found on adjacent structures. The brick will not try to mimic the character of the 100 year old brick found on adjacent structures, but will look to be sympathetic in the color palette. The other two materials are metal panel; the lighter material would be rendered as a flat seam hook and strap cladding while the darker metal would be a horizontal "S" profile panel to provide a play on texture and depth between the two materials and the adjacent brick within the palette.

REFUSE & RECYCLING:

Garbage and recycling containers serving both buildings will be located in an enclosed room in the upper parking level at the end of the access driveway. A private collection service will be used and their vehicles will pull into the driveway and temporarily park while the roll out containers are loaded for collection.

AFFORDABLE HOUSING:

We are working with WHEDA to finance the project. If successful we will be renting 20% of the units (29) at 80% of Dane County Medium Income.

GREEN FEATURES:

We will be working with Focus on Energy to incorporate as many energy efficient features as possible. We anticipate using energy efficient light fixtures, energy star appliances, high efficiency forced air furnaces and air conditioners, low flow plumbing fixtures, and Low-E glass on the windows. Common mechanicals will also be high efficiency.

We will also explore photovoltaic solar panels on the roof - and hopefully will be able to install them if we can receive subsidies to help off set the significant initial cost of the solar installation.

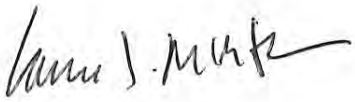
We will install a minimum of two electric car charging stations in the parking level and will have the ability to add more in the future if needed.

PROJECT SCHEDULE:

FEB 17, 2016:	Formal Application
MAR 14, 2016:	Landmarks Commission
APR 6, 2016:	Urban Design Commission
APR 18, 2016:	Plan Commission
MAY 3, 2016:	City Council
MAY 11, 2016:	Urban Design - Final Approval
JUN 1, 2016:	Start Remediation/Construction
MAY 1, 2017:	Certificate of Occupancy

Please feel free to contact me if additional information is needed.

Sincerely,



Lance T. McGrath
Owner - McGrath Property Group, LLC

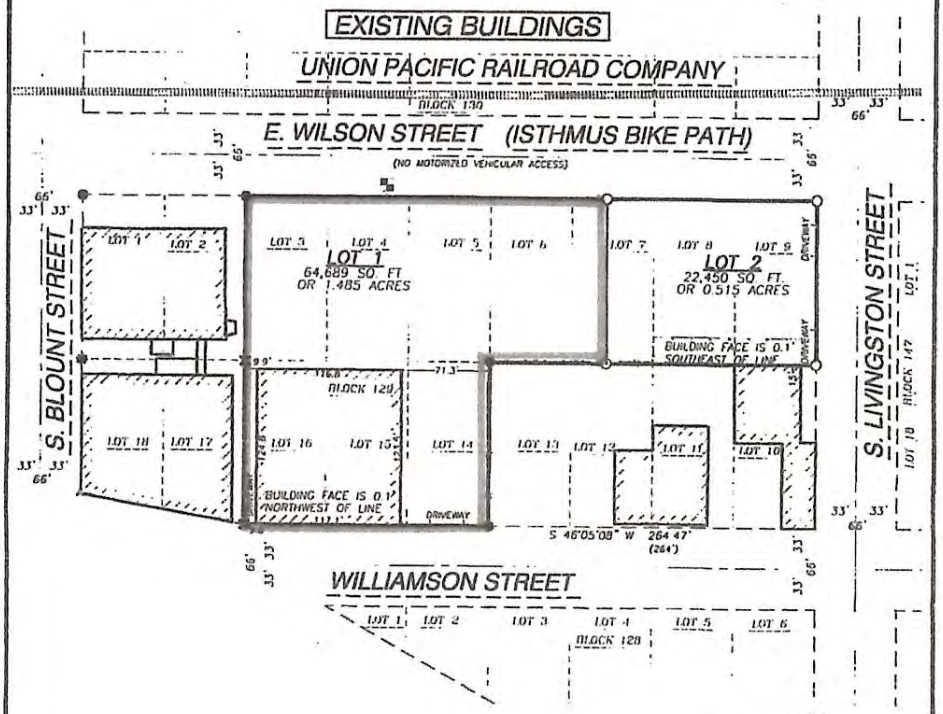
EXHIBIT A

Legal Description

Lot 1 of CSM # 13306

CERTIFIED SURVEY MAP NO. 13306

ALL OF LOTS 3 THROUGH 9 AND LOTS 14 THROUGH 16, BLOCK 129, ORIGINAL PLAT OF MADISON, LOCATED IN THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER AND THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 7 NORTH, RANGE 9 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.



WISCONSIN
JOHN KREBS
S-1878
McFARLAND, WISCONSIN
LAND SURVEYOR
5/16/12

LEGEND

- GOVERNMENT CORNER
- ¾" REBAR FOUND
- COTTON SPINDLE FOUND
- CHISELED 'X' FOUND
- PK/MAG NAIL FOUND
- ¾" x 24" REBAR SET (1.50 LBS/LF)
- MONITORING WELL
- APPROXIMATE LOCATION
- PARCEL BOUNDARY
- RIGHT-OF-WAY LINE
- CENTERLINE
- PLATTED LOT LINE
- SECTION LINE
- EASEMENT LINE
- FENCE LINE
- GUARD OR SAFETY RAIL
- BUILDING
- ( ) RECORDED INFORMATION
- ELEVATION AT LOT CORNER
- DRAINAGE ARROWS

NOTES

1. BEARINGS FOR THIS SURVEY AND MAP ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, (WCCS DANE ZONE 1991), NORTH AMERICAN DATUM 1983(1991), (NAD 83(91)). THE SOUTH LINE OF THE SOUTHWEST QUARTER BEARS, S 88°53'32" E.
2. FIELD WORK PERFORMED BY JSD PROFESSIONAL SERVICES, INC. THE WEEK OF AUGUST 8, 2011.
3. ELEVATIONS FOR THIS SURVEY AND MAP ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SITE BENCHMARK IS A BRASS CAP IN CONCRETE MONUMENT MARKING THE WITNESS CORNER TO THE SOUTHWEST CORNER OF SECTION 13, T7N, R9E, ELEVATION=918.45.

SEE PAGE 3 OF 5 FOR ADDITIONAL NOTES 4 THRU 7 FOR EASEMENT INFORMATION.

north

0 50' 100'
SCALE: 1" = 100'

PREPARED BY:	PREPARED FOR:			
JSD Professional Services, Inc. • Engineers • Surveyors • Planners 161 HORIZON DRIVE, SUITE 101 VERONA, WISCONSIN 53593 PHONE: (608)848-5080	THE RIFKIN GROUP, LTD 14 WEST MIFFLIN STREET, STE. 300 P.O. BOX 2077 MADISON, WI 53701-2077	PROJECT NO: 11-4761 FILE NO: B-202 FIELDBOOK/PG: 185/46 SHEET NO: 2 OF 5	SURVEYED BY: MAD DRAWN BY: JK CHECKED BY: DRS APPROVED BY: HPJ	VOL. 86 PAGE 46 DOC. NO. 4884155 C.S.M. NO. 13306

S:\2011\11-4761\dwg\11-4761 CSM.dwg

Re 722 Williamson Street Development, McGrath Property Group
Updates to Bike Path Elevation

The Design Team has continued the development of the bike path elevation based on the comments that it has received through the design and review process. We believe with these developments we have been able to address the concerns of the Neighborhood/Alderperson/UDC/City Staff; breaking down the scale/length of the elevation and opening up the grade level experience to engage the bike path and present the building as a front door to those approaching from the bike path.

The breaking down of the scale along the length of the bike path elevation has developed in two-fold. One, we have created physical breaks within the 240' elevation. These breaks occur at roughly third points and identify changes with the articulation of the elevation. At the west third of the building we have also pulled the building face out 2 feet to allow a visual break/step of the main face plane of the building. The break at the east third of the building allows for the push back and widening of the "front porch" at the entry condition along the elevation. This in conjunction with lengthening the "front porch" along the face of the building allows for the creation of a space that residence can occupy. The "front porch" houses bench seating as well as a grille station for resident use; refer to attached site plan and building plan. Secondly we have looked at the overall composition of the elevation and introduced additional masonry to break down the overall scale of the three main bays. The masonry is proportioned and developed within the overall language of the complete building massing and articulation to create a cohesive design between all elevations of the project.

In addition to breaking down the length of the elevation, and introducing an engaging front porch, we have added larger storefront glazed openings along the main body of the grade elevation to bring more porosity to the grade level experience as the building engages the bike path. These large openings are rendered as if they were old dock doors that had once been used in conjunction with the ramped access to the main entry off of the bike path.

We feel as the Design Team we have listened to the concerns of all parties mentioned above and have developed a solution that addresses those concerns and holds to the overall aesthetic and design concept, while maintaining the programmatic requirements for the building. We believe these are positive developments for not only the project, but the Neighborhood and City as well.

Sincerely,

Marc Schellpfeffer, AIA
Partner

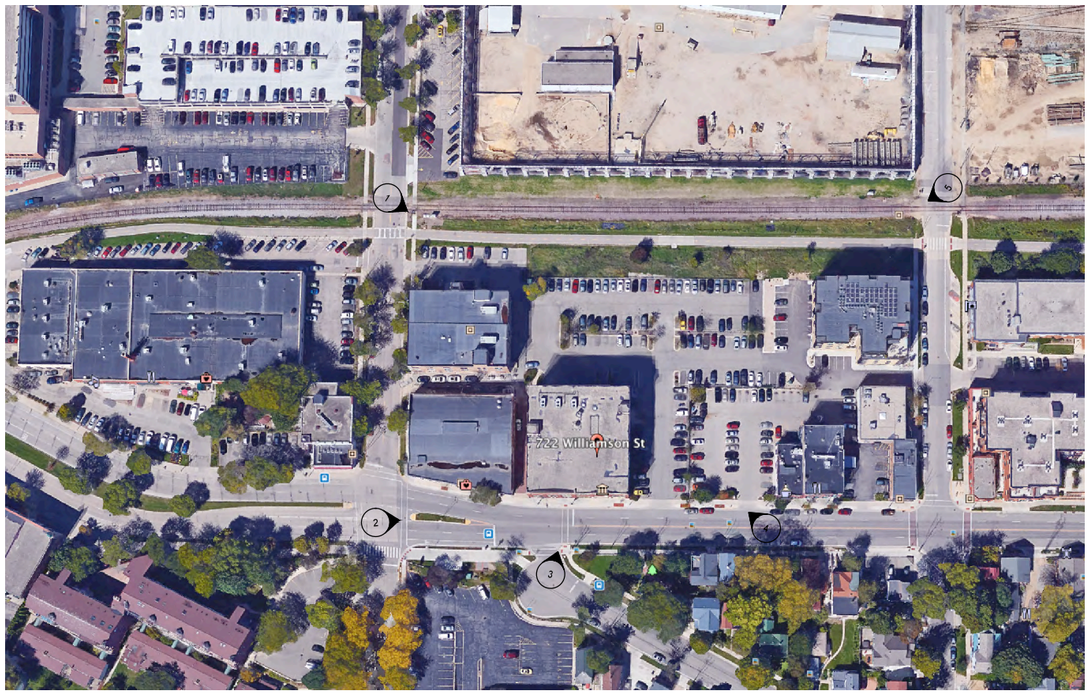
PMC/mds

Copied File

1 VIEW OF SITE FROM S. BLOUNT STREET
SCALE: NTS

2 VIEW LOOKING EAST ON WILLIAMSON STREET
SCALE: NTS

3 WILLIAMSON STREET VIEW OF OLDS SEED BUILDING
SCALE: NTS



SITE LOCATOR MAP
SCALE: NTS

4 VIEW LOOKING WEST ON WILLIAMSON STREET
SCALE: NTS

5 VIEW OF SITE FROM S. LIVINGSTON STREET
SCALE: NTS

15003.00

722 Williamson Street Context Map and Images

722 Williamson Street
Scale: NTS

April 27, 2016 - Urban Design Final Approval Submittal

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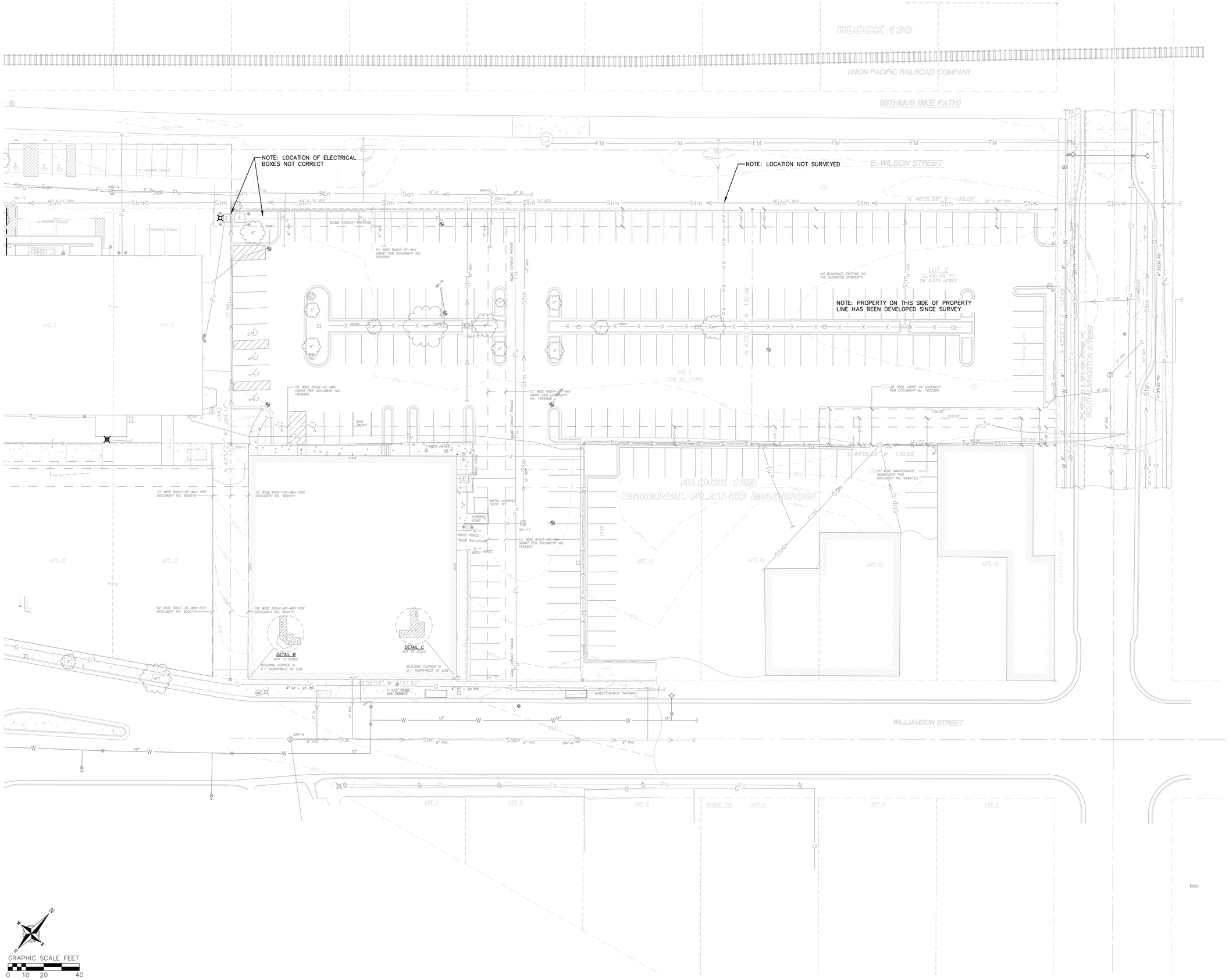
CāS4 architecture, llc



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ph 608-709-1250

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planners | engineers | advisors
REEDSBURG - MADISON - PRAIRIE DU CHIEN
999 Fourier Drive, Suite 201 Madison, Wisconsin 53717

CITY OF MADISON DEVELOPMENT REVIEW SUBMITTAL:
Submittal dated: February 17, 2016 for the following Meeting Dates
Landmarks Commission - March 14, 2016 (approved)
Urban Design Commission - April 6, 2016 (initial approval)
Plan Commission - April 18, 2016 (approved)
Common Council - May 3, 2016
UDC Final Approval Submittal dated: April 27, 2016 for May 11, 2016 Meeting Date

NOT FOR CONSTRUCTION

722 Williamson Street Apartments

722 Williamson Street
Madison, WI 53703

Project #: 15003.00

Design Development

Issued for:

No.	Description	Date
01	City of Madison Review	02-17-2016
02	UDC Final Approval	04-27-2016

Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

EXISTING CONDITIONS

C100

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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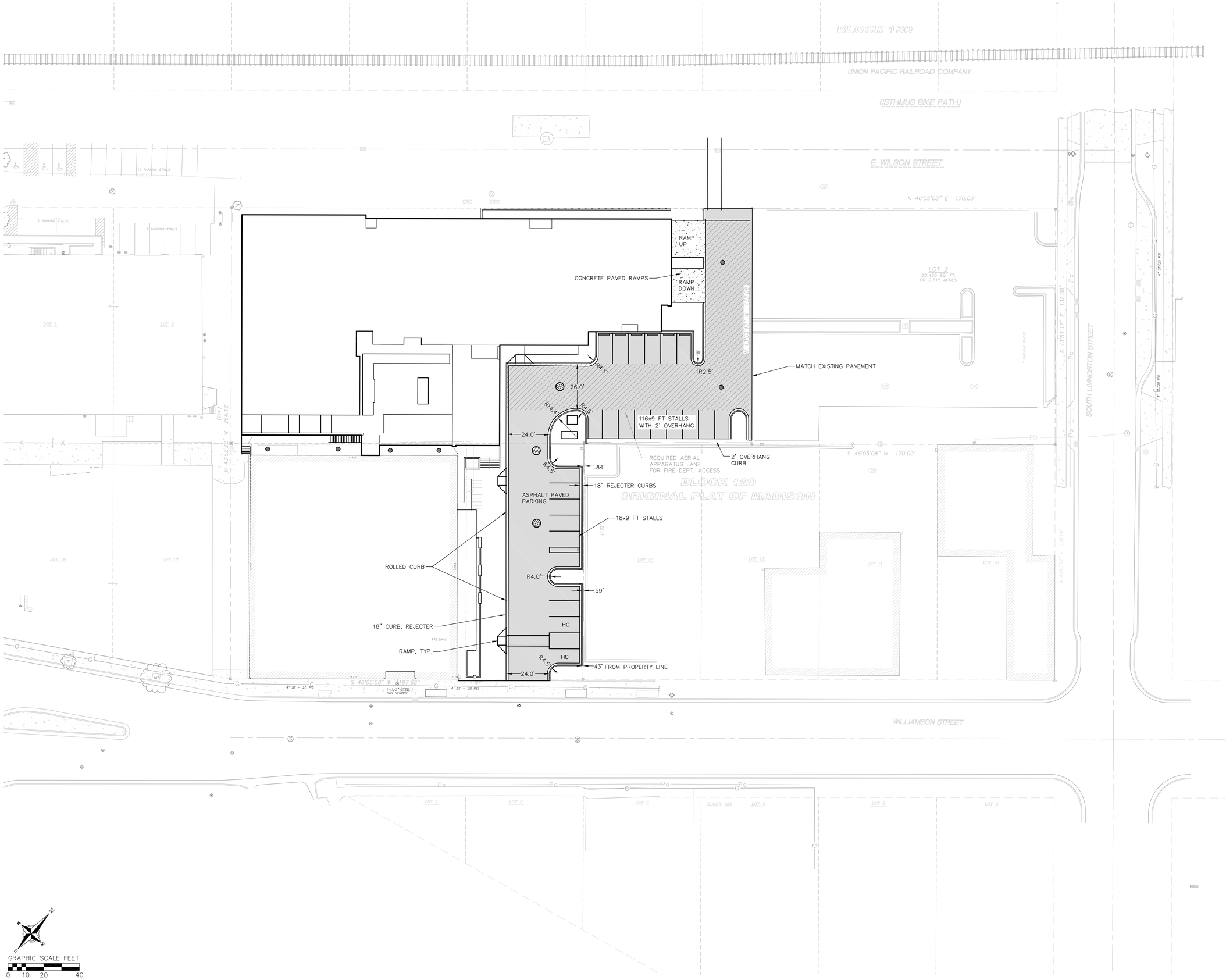

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722 Williamson Street Apartments

722 Williamson Street
Madison, WI 53703

Project #: 15003.00

Design Development

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01	City of Madison Review	02-17-2016
02	UDC Final Approval	04-27-2016

Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

SITE PLAN

C101

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

M:\Van Sabl Design\15034\-- 722 Wlly Street Development\Cad 3D\722 Wlly St Dev.dwg

NOTE: LOCATION OF ELECTRICAL BOXES NOT CORRECT

ABANDON EXISTING SANITARY LATERAL

REMOVE EXISTING GUARD RAIL

NOTE: LOCATION NOT SURVEYED

RELOCATE ELECTRIC BOX

PROTECT 12" STORMWATER PIPE

REMOVE EXISTING GUARD RAIL

RELOCATE UTILITY

REMOVE CATCHBASIN

REMOVE 105' EXISTING 15" STORMWATER PIPE

REMOVE 450' EXISTING MG&E CONDUIT PACKAGE

REMOVE 175' EXISTING 12" STORMWATER PIPE

REMOVE ASPHALT, ISLANDS AND OTHER STRUCUTURES

REMOVE EXISTING 12" STORMWATER PIPE

REMOVE ASPHALT, ISLANDS AND OTHER STRUCTURES

SAWCUT PAVEMENT

PROTECT TELEPHONE UTILITY AND PED

PROTECT TELEPHONE UTILITY CABLE

REMOVE EXISTING GUARD RAIL AND CHAIN FENCE

REMOVE ELECTRICAL TRANSFORMER

PROTECT NEIGHBOR LIGHTING, TYP.

REMOVE CATCHBASIN

REMOVE CONCRETE STEPS, SIDEWALK, LOADING DOCK. REMOVE FENCE, LIFT, BOLLARDS, ETC.

REMOVE ASPHALT AND OTHER STRUCTURES WITHIN HATCHING

REMOVE EXISTING LIGHT POLE AND BASE

REMOVE EXISTING GUARD RAIL AND CHAIN FENCE

REMOVE SIGNS AND BOLLARDS

SAWCUT PAVEMENT

DETAIL B
NOT TO SCALE

DETAIL C
NOT TO SCALE

GRAPHIC SCALE FEET
0 10 20 40

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NOT FOR CONSTRUCTION

722 Williamson Street Apartments

722 Williamson Street
Madison, WI 53703

Project #: 15003.00

Design Development

Issued for:

No.	Description	Date
01	City of Madison Review	02-17-2016
02	UDC Final Approval	04-27-2016

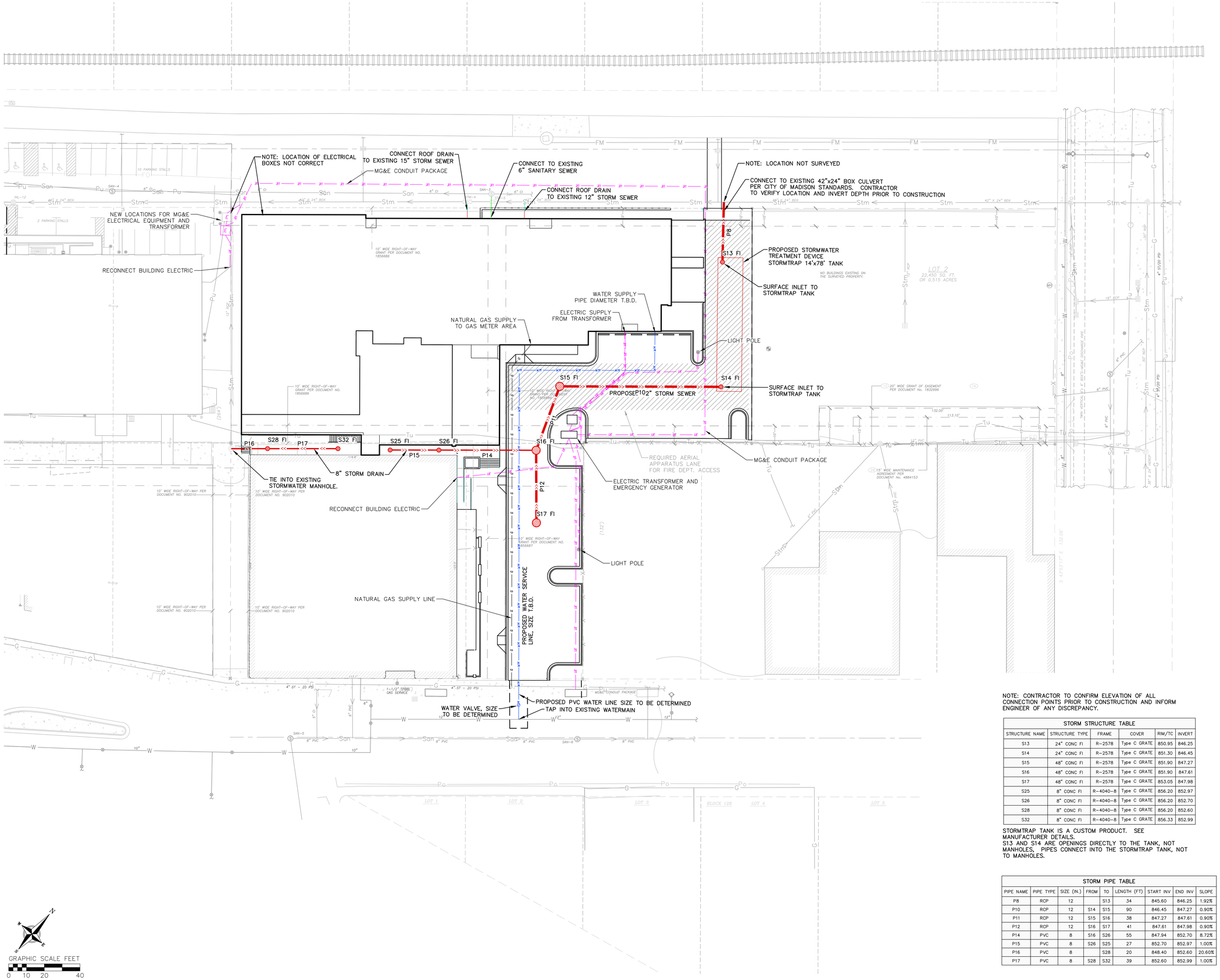
Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

DEMOLITION PLAN

C102

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

M:\Van Sabi Design\15034\ - 722 Wlly Street Development\Cad 3D\722 Wlly St Dev.dwg



NOTE: CONTRACTOR TO CONFIRM ELEVATION OF ALL CONNECTION POINTS PRIOR TO CONSTRUCTION AND INFORM ENGINEER OF ANY DISCREPANCY.

STORM STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE TYPE	FRAME	COVER	RIM/TC	INVERT
S13	24" CONC FI	R-2578	Type C GRATE	850.95	846.25
S14	24" CONC FI	R-2578	Type C GRATE	851.30	846.45
S15	48" CONC FI	R-2578	Type C GRATE	851.90	847.27
S16	48" CONC FI	R-2578	Type C GRATE	851.90	847.61
S17	48" CONC FI	R-2578	Type C GRATE	853.05	847.98
S25	8" CONC FI	R-4040-8	Type C GRATE	856.20	852.97
S26	8" CONC FI	R-4040-8	Type C GRATE	856.20	852.70
S28	8" CONC FI	R-4040-8	Type C GRATE	856.20	852.60
S32	8" CONC FI	R-4040-8	Type C GRATE	856.33	852.99

STORMTRAP TANK IS A CUSTOM PRODUCT. SEE MANUFACTURER DETAILS.
S13 AND S14 ARE OPENINGS DIRECTLY TO THE TANK, NOT MANHOLES, PIPES CONNECT INTO THE STORMTRAP TANK, NOT TO MANHOLES.

STORM PIPE TABLE							
PIPE NAME	PIPE TYPE	SIZE (IN.)	FROM	TO	LENGTH (FT)	START INV	END INV	SLOPE
P8	RCP	12		S13	34	845.60	846.25	1.92%
P10	RCP	12	S14	S15	90	846.45	847.27	0.90%
P11	RCP	12	S15	S16	38	847.27	847.61	0.90%
P12	RCP	12	S16	S17	41	847.61	847.98	0.90%
P14	PVC	8	S16	S26	55	847.94	852.70	8.72%
P15	PVC	8	S26	S25	27	852.70	852.97	1.00%
P16	PVC	8		S28	20	848.40	852.60	20.60%
P17	PVC	8	S28	S32	39	852.60	852.99	1.00%

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999 Fourier Drive, Suite 201 Madison, Wisconsin 53717

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NOT FOR CONSTRUCTION

722 Williamson Street Apartments

722 Williamson Street
Madison, WI 53703

Project #: 15003.00

Design Development

Issued for:

No.	Description	Date
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02	UDC Final Approval	04-27-2016

Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

UTILITY PLAN

C103

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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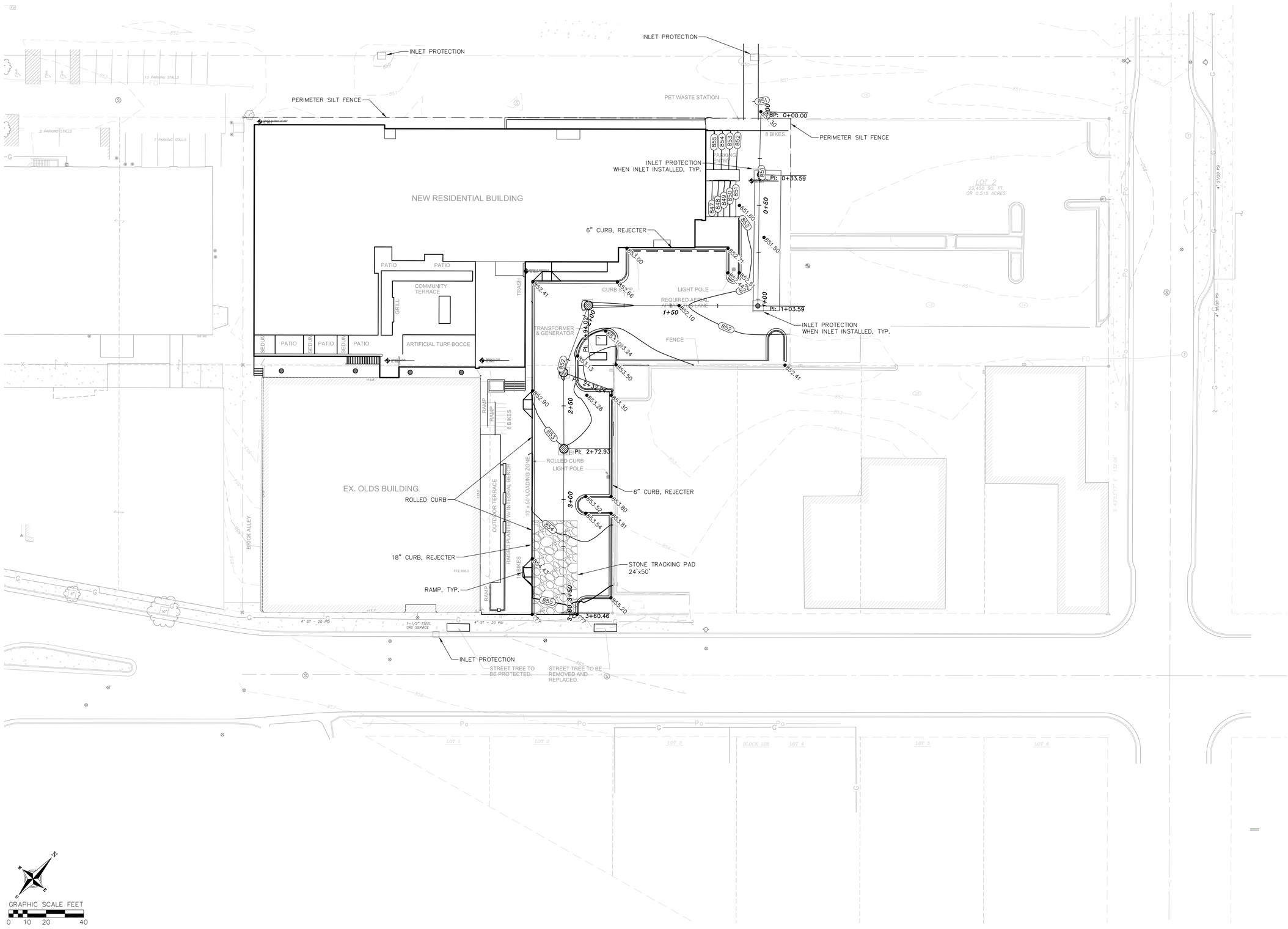

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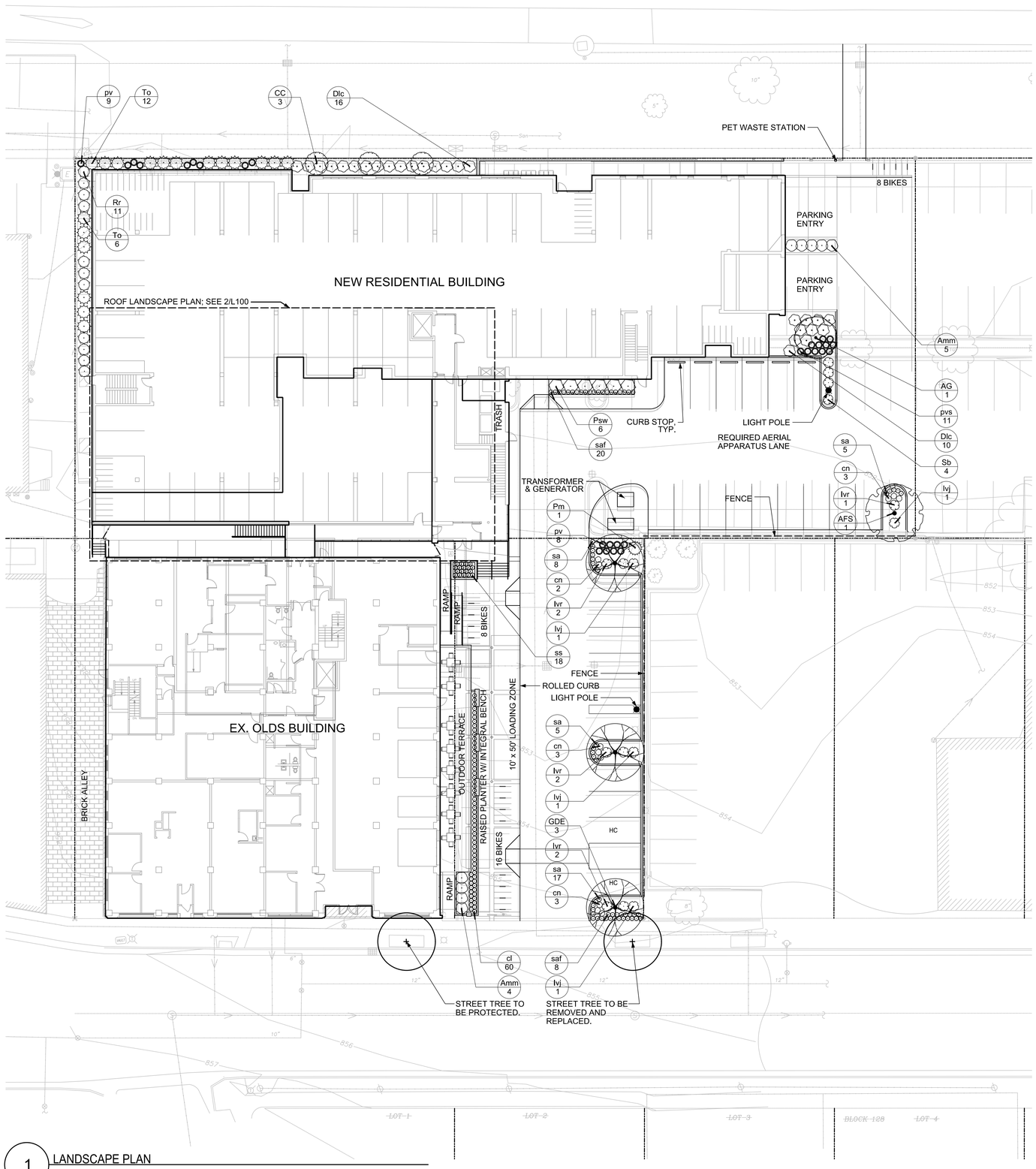
GRADING AND EROSION

C104

Project Name: 722 Williamson Street Apartments
Project #: 15003.00



1 LANDSCAPE PLAN

PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY
AFS	Acer x freemanii `Sienna` / Sienna Glen Maple	B & B	2.5"Cal		1
AG	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	B & B		6` ht.	1
CC	Carpinus caroliniana `Firespire` TM / American Hornbeam	B & B		5` HT.	3
GDE	Gymnocladus dioica `Espresso` / Kentucky Coffeetree	B & B	2.5"Cal		3

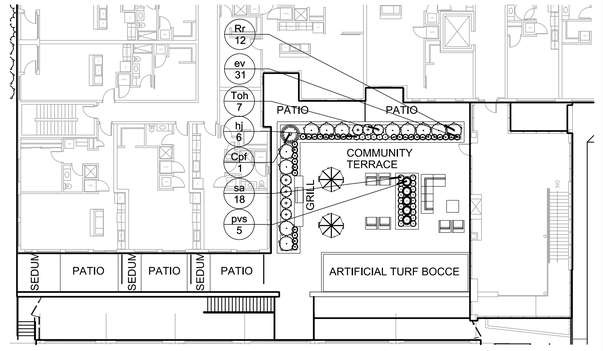
DECIDUOUS SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	SPACING	QTY
Amm	Aronia melanocarpa `Morton` TM / Iroquis Beauty Black Chokeberry	3 gal			48" o.c.	9
Dlc	Diervilla lonicera `Copper` / Copper Low Bush Honeysuckle	3 gal			48" o.c.	26
Ivj	Ilex verticillata `Jim Dandy` / Jim Dandy Winterberry	3 gal			42" o.c.	4
Ivr	Ilex verticillata `Red Sprite` / Red Sprite Winterberry	3 gal			42" o.c.	7
Psw	Physocarpus opulifolius `Summer Wine` / Summer Wine Ninebark	5 gal	30" HT		60" o.c.	6
Rr	Ribes rubrum `Red Lake` / Red Lake Currant	3 gal			48" o.c.	23
Sb	Spiraea betulifolia `Tor` / Birchleaf Spirea	3 gal			42" o.c.	4

EVERGREEN SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	SPACING	QTY
Cpf	Chamaecyparis pisifera `Filifera Golden Charm` / Golden Charm Threadbranch Cypress	5 gal			60" o.c.	1
Pm	Pinus mugo `Big Tuna` / Mountain Pine	5 gal	4` HT. (MIN.)		60" o.c.	1
Toh	Thuja occidentalis `Holmstrup` / Holmstrup Cedar	5 gal	3` Ht.		36" o.c.	7
To	Thuja occidentalis `Wintergreen` / Arborvitae	5 gal	4` HT. (MIN.)		60" o.c.	18

ORNAMENTAL GRASSES	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	SPACING	QTY
cl	Chasmanthium latifolium / Wood Oats	1 gal			18" o.c.	60
pv	Panicum virgatum `North Wind` / Northwind Switch Grass	1 gal			30" o.c.	17
pvs	Panicum virgatum `Shenandoah` / Burgundy Switch Grass	1 gal			30" o.c.	16
sa	Sesleria autumnalis / Autumn Moor Grass	1 gal			18" o.c.	53
ss	Sesleria sadlerana / Green Moor Grass	1 gal			18" o.c.	18

PERENNIALS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	SPACING	QTY
cn	Calamintha nepeta ssp. nepeta / Lesser Calamint	1 gal			24" o.c.	11
ev	Epimedium x versicolor `Sulphureum` / Bicolor Barrenwort	1 gal			18" o.c.	31
hj	Hosta x `June` / June Hosta	1 gal			18" o.c.	6
saf	Sedum x `Autumn Fire` / Autumn Fire Sedum	1 gal			18" o.c.	28

SEDUM MIX	BOTANICAL NAME / COMMON NAME	SIZE/SPACING
	Sedum ellacombianum	90% minimum coverage at installation
	Sedum hybridum 'Czar's Gold'	
	Sedum karntschaticum 'Kullense'	
	Sedum reflexum	
	Sedum reflexum 'Sunsplash'	
	Sedum rupestre 'Angelina'	
	Sedum spurium 'Dragon's Blood'	



2 ROOF LANDSCAPE PLAN

NOTES:
1. All plant beds and mulch rings shall have shredded hardwood bark mulch unless otherwise noted.

2. Plantings shall not be permanently irrigated.

3. Contractor shall contact City Forestry at least 48 hours prior to any work on street trees.

4. The planned removal of trees includes all brush and stump removal.

5. For existing street trees to be protected, contractor shall install tree protection fencing in the area between the curb and sidewalk and extend it at least 5'-0" from both sides of the tree along the length of the terrace. No excavation is permitted within 5'-0" of the outside edge of a tree trunk. If excavation within 5'-0" of any tree is necessary, contractor shall contact City Forestry (266-4816) prior to excavation to assess the impact to the tree and root system. Tree pruning shall be coordinated with City Forestry. Tree protection specifications can be found in Section 107.13 of City of Madison Standard Specifications for Public Works Construction.

6. Indicated street trees shall be removed & replaced w/ 3" caliper trees, species to be determined by City Forestry. These trees shall be planted in Neenah 4'x8' (R-8815-A) tree grates to be determined by City Engineering.

7. Approval and permitting of street tree removals and street tree planting shall be obtained from the City Forester and/or the Board of Public Works prior to the approval of the site plan.

8. Trees shall be planted per planting specifications found in section 209 of City of Madison Standard Specifications for Public Works Construction.

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Madison, WI 53703

Project #: 15003.00

Design Development

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LANDSCAPE PLAN

L100

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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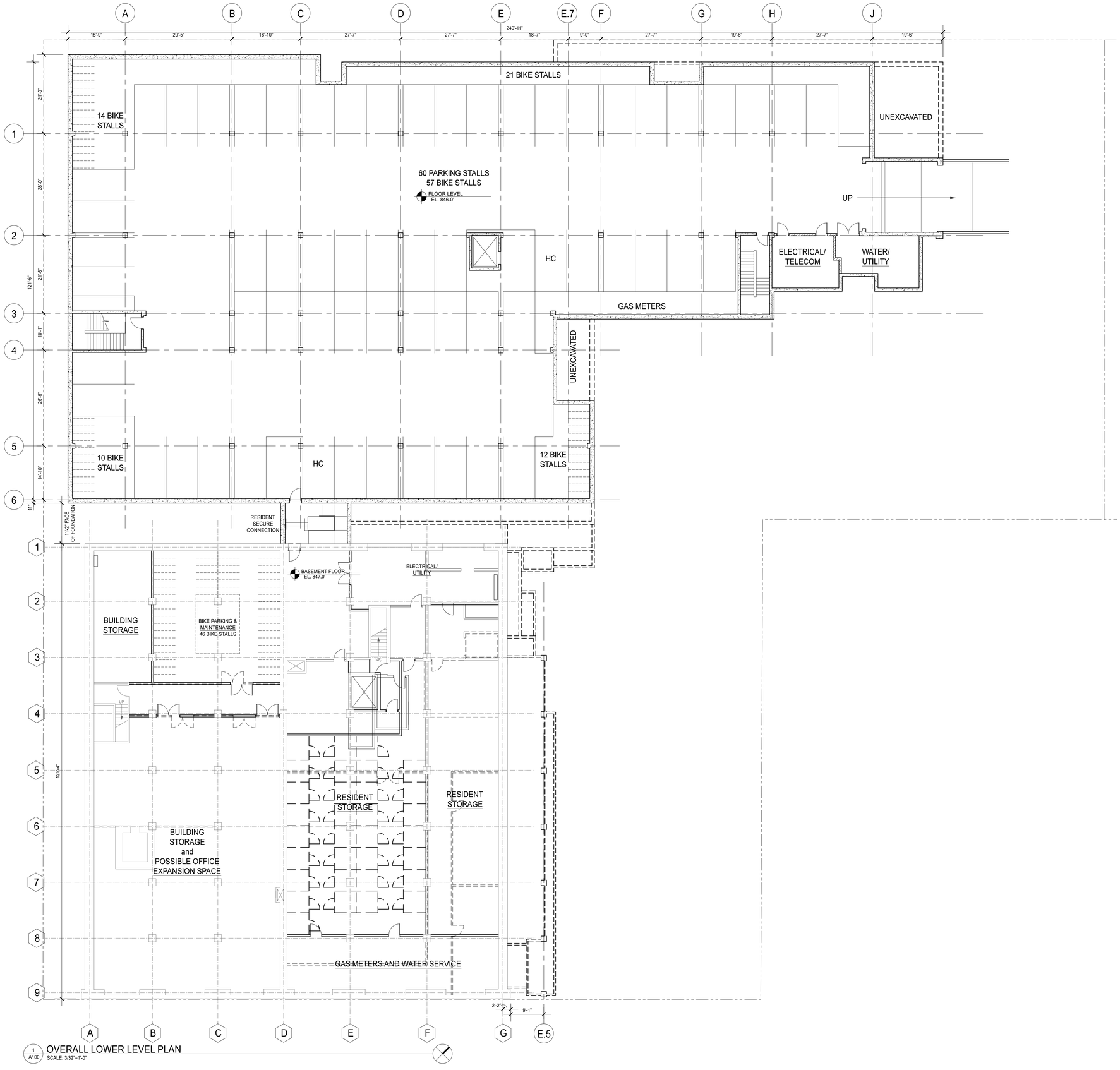

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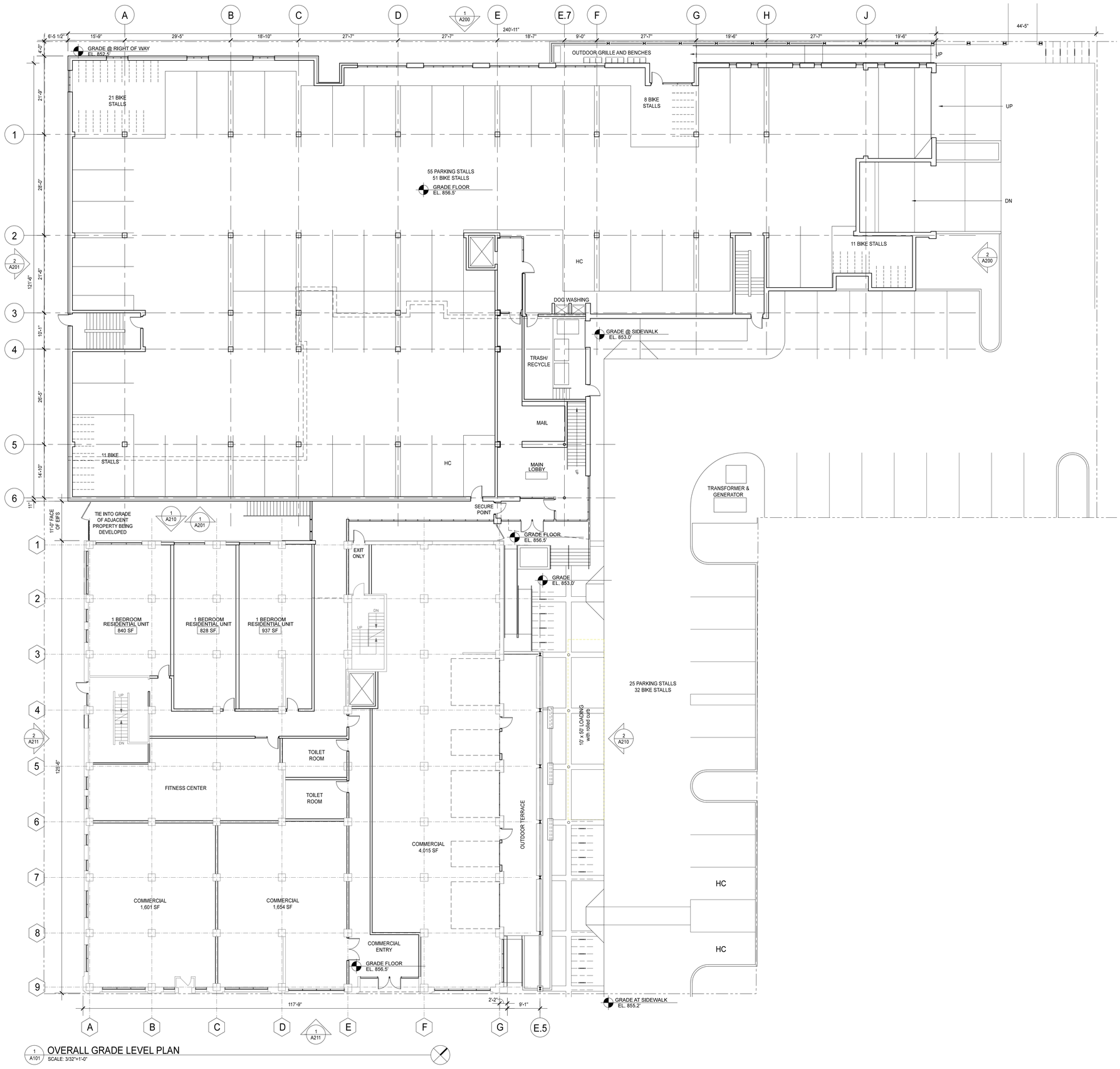
OVERALL LOWER LEVEL PLAN

A100

Project Name: 722 Williamson Street Apartments
Project #: 15003.00



1 A101 OVERALL GRADE LEVEL PLAN
SCALE: 3/32"=1'-0"

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OVERALL GRADE LEVEL PLAN

A101

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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OVERALL SECOND LEVEL PLAN

A102

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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Drawn by: CaS4 Architecture
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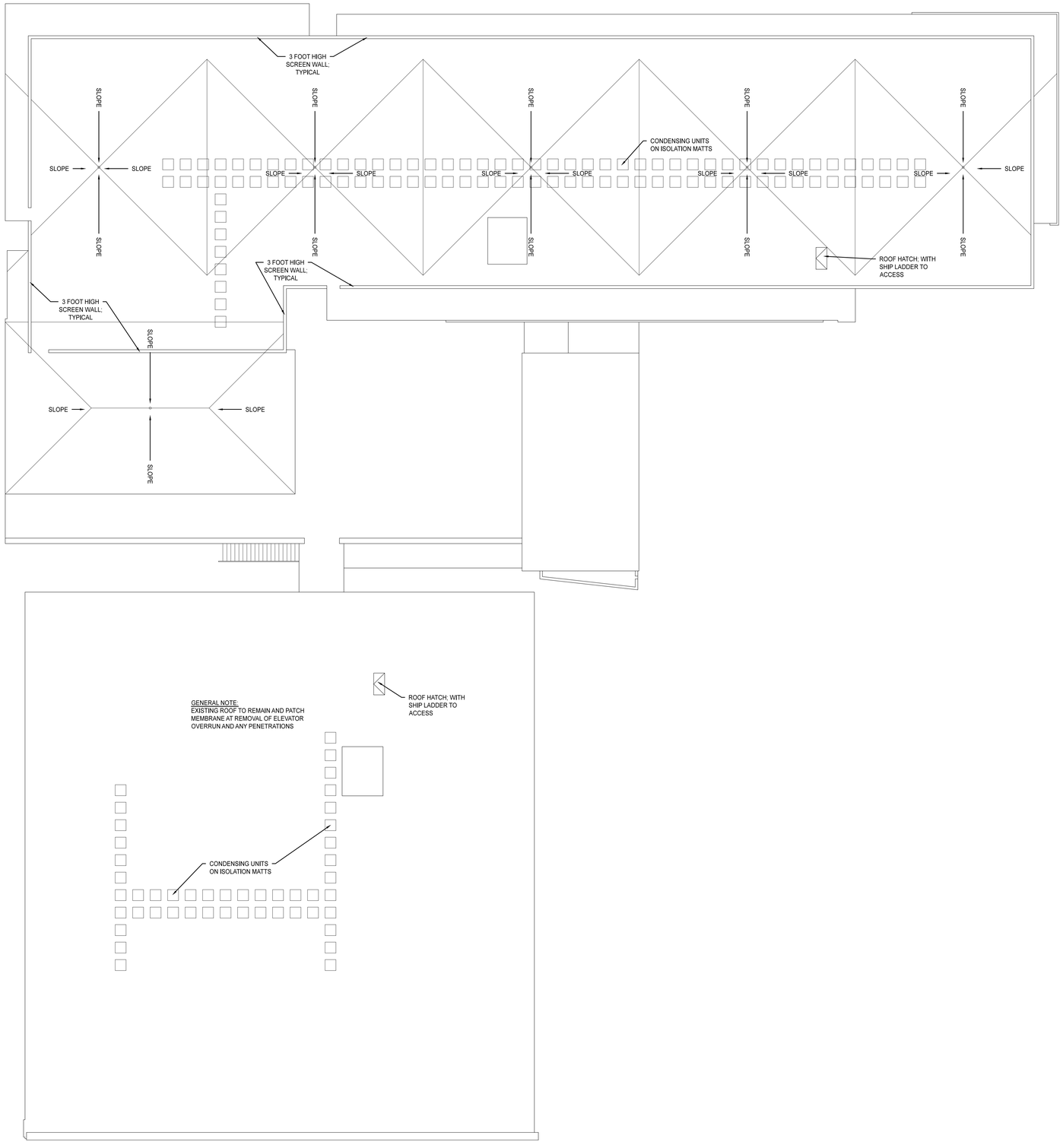
OVERALL 3-5 LEVEL PLANS

A103

Project Name: 722 Williamson Street Apartments
Project #: 15003.00



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OVERALL ROOF PLAN

A104

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

View from Bike Path looking west

View from Bike Path looking east

View from Bike Path looking west at “Front Porch”

View from Bike Path looking east at “Front Porch”

15003.00

Building Images

722 Williamson Street

Scale: NTS

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View from Williamson Street

View of Lantern and Courtyard between Buildings beyond

Approach to Promenade and Lantern from Williamson Street

View from Promenade back to Lantern

15003.00

Building Images

722 Williamson Street

Scale: NTS

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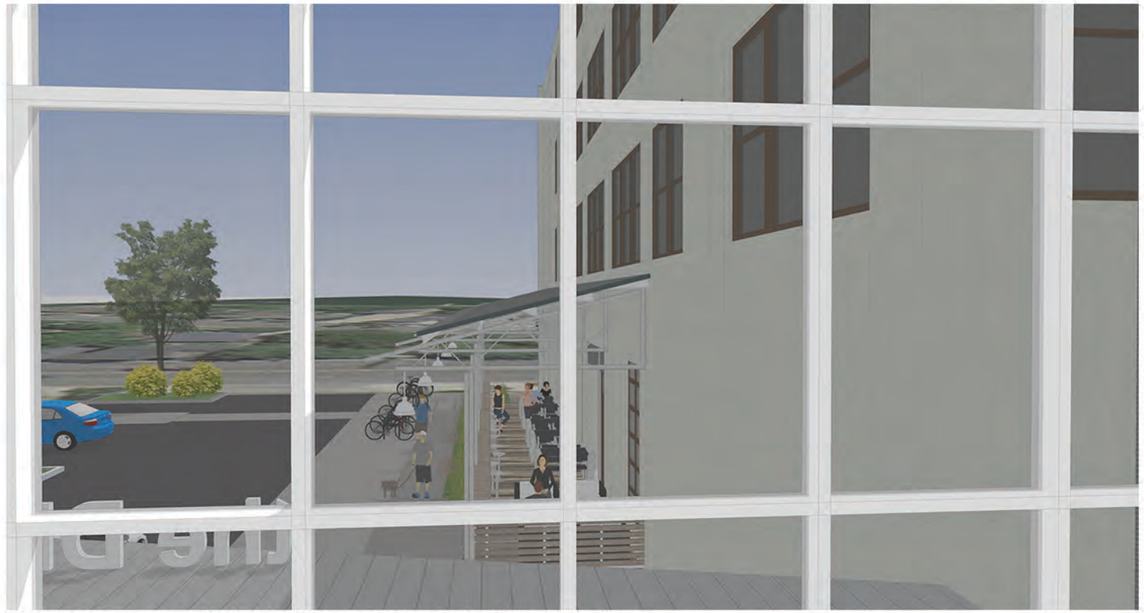

View from Second Floor of Lantern back to Promenade

View from Second Floor of Lantern out to Residential Terrace

View from Residential Terrace back to Second Floor of Lantern

View from Residential Terrace back to Second Floor of Lantern

15003.00

Building Images

722 Williamson Street

Scale: NTS

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1 A200 NORTH ELEVATION
SCALE: 1/8"=1'-0"

2 A200 EAST ELEVATION
SCALE: 1/8"=1'-0"

ELEVATION KEYNOTE LEGEND

1 EXISTING MASONRY TO BE TUCK POINTED AS REQUIRED

2 NEW THERMALLY BROKEN ALUMINUM CLAD WINDOWS; MEDIUM BRONZE FINISH

3 NEW THERMALLY BROKEN ALUMINUM STOREFRONT; FINISH VARIES BY LOCATION

4 NEW THERMALLY BROKEN ALUMINUM GARAGE DOOR SYSTEMS; FINISH VARIES BY LOCATION

5 INSULATED CLEAR GLASS

6 INSULATED TEXTURED GLASS

7 NEW EIFS SYSTEM; REMOVING ALL EXISTING EIFS AND REPLACING WITH 2" EIFS SYSTEM ON DRAINAGE LAYER OR STUCCO AT MINIMUM 12' ABOVE FINISHED GRADE

8 ALUMINUM SILL FLASHING TO MATCH EIFS

9 GALVANIZED STRUCTURAL STEEL

10 GALVANIZED STEEL GUARD AND HANDRAILS AND/OR MESH GUARD

11 RECLAIMED WOOD SLAT WALL

12 LIGHTING

13a 1/2" ALUMINUM PLATE SIGNAGE - 18" TALL x 8'-0" WIDE

13b 1/2" ALUMINUM PLATE SIGNAGE - 18" TALL x 7'-0" WIDE

13c 1/2" ALUMINUM PLATE SIGNAGE POST MOUNTED IN PLANTER - 24" TALL x 5'-0" WIDE

13d 1/2" ALUMINUM PLATE SIGNAGE MOUNTED WITHIN THE DEPTH OF THE BRICK RETURN - 18" TALL x 8'-0" WIDE MAXIMUM

13e 1/2" ALUMINUM PLATE SIGNAGE POST MOUNTED IN PLANTER - 18" TALL x 4'-0" WIDE

13f 1/2" ALUMINUM PLATE SIGNAGE WALL MOUNTED - 18" TALL x 3'-6" WIDE

13g INTERIOR VINYL LETTERING ON GLAZING WITHIN 3'-0" x 3'-0" AREA

13h POST MOUNTED LIT SIGNAGE - 15" TALL x 12'-0" WIDE MAXIMUM

14 SANDBLASTED CAST IN PLACE CONCRETE

15 RECLAIMED WOOD BENCH SLABS

16 CORRUGATED METAL PANEL; CHARCOAL GRAY FINISH

17 STANDING SEAM METAL ROOF; COLOR TO BE CHARCOAL GRAY TO MATCH CORRUGATED METAL PANEL

18 GALVANIZED TUBE STEEL AND MESH GUARD FENCE AND EGRESS GATE

19 BRICK VENEER; MODULAR SIZE IN RUNNING BOND PATTERN, BUFF COLOR

20 BRICK VENEER; MODULAR SIZE IN RUNNING BOND PATTERN, REDDISH BROWN COLOR

21 HOOK AND STRAP FLAT SEAM METAL PANEL; 1/3 OFFSET HORIZONTAL JOINTS, SILVER METALLIC COLOR

22 FIBERGLASS WINDOW AND DOOR WITH INSULATED CLEAR GLASS

23 ALUMINUM RAILING SYSTEM; FINISH TO MATCH HOOK STRAP FLAT SEAM METAL PANEL

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OVERALL BUILDING ELEVATIONS

A200

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

1 A201 SOUTH ELEVATION
SCALE: 1/8"=1'-0"

2 A201 WEST ELEVATION
SCALE: 1/8"=1'-0"

ELEVATION KEYNOTE LEGEND

1 EXISTING MASONRY TO BE TUCK POINTED AS REQUIRED

2 NEW THERMALLY BROKEN ALUMINUM CLAD WINDOWS; MEDIUM BRONZE FINISH

3 NEW THERMALLY BROKEN ALUMINUM STOREFRONT; FINISH VARIES BY LOCATION

4 NEW THERMALLY BROKEN ALUMINUM GARAGE DOOR SYSTEMS; FINISH VARIES BY LOCATION

5 INSULATED CLEAR GLASS

6 INSULATED TEXTURED GLASS

7 NEW EIFS SYSTEM; REMOVING ALL EXISTING EIFS AND REPLACING WITH 2" EIFS SYSTEM ON DRAINAGE LAYER OR STUCCO AT MINIMUM 12' ABOVE FINISHED GRADE

8 ALUMINUM SILL FLASHING TO MATCH EIFS

9 GALVANIZED STRUCTURAL STEEL

10 GALVANIZED STEEL GUARD AND HANDRAILS AND/OR MESH GUARD

11 RECLAIMED WOOD SLAT WALL

12 LIGHTING

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13g INTERIOR VINYL LETTERING ON GLAZING WITHIN 3'-0" x 3'-0" AREA

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OVERALL BUILDING ELEVATIONS

A201

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

1 A202 RENDERED NORTH ELEVATION
SCALE: 1/8"=1'-0"

2 A202 RENDERED EAST ELEVATION
SCALE: 1/8"=1'-0"

ELEVATION KEYNOTE LEGEND

1. EXISTING MASONRY TO BE TUCK POINTED AS REQUIRED
2. NEW THERMALLY BROKEN ALUMINUM CLAD WINDOWS; MEDIUM BRONZE FINISH
3. NEW THERMALLY BROKEN ALUMINUM STOREFRONT; FINISH VARIES BY LOCATION
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5. INSULATED CLEAR GLASS
6. INSULATED TEXTURED GLASS
7. NEW EIFS SYSTEM; REMOVING ALL EXISTING EIFS AND REPLACING WITH 2" EIFS SYSTEM ON DRAINAGE LAYER OR STUCCO AT MINIMUM 12' ABOVE FINISHED GRADE
8. ALUMINUM SILL FLASHING TO MATCH EIFS
9. GALVANIZED STRUCTURAL STEEL
10. GALVANIZED STEEL GUARD AND HANDRAILS AND/OR MESH GUARD
11. RECLAIMED WOOD SLAT WALL
12. LIGHTING
13a. 1/2" ALUMINUM PLATE SIGNAGE - 18" TALL x 8'-0" WIDE
13b. 1/2" ALUMINUM PLATE SIGNAGE - 18" TALL x 7'-0" WIDE
13c. 1/2" ALUMINUM PLATE SIGNAGE POST MOUNTED IN PLANTER - 24" TALL x 5'-0" WIDE
13d. 1/2" ALUMINUM PLATE SIGNAGE MOUNTED WITHIN THE DEPTH OF THE BRICK RETURN - 18" TALL x 8'-0" WIDE MAXIMUM
13e. 1/2" ALUMINUM PLATE SIGNAGE POST MOUNTED IN PLANTER - 18" TALL x 4'-0" WIDE
13f. 1/2" ALUMINUM PLATE SIGNAGE WALL MOUNTED - 18" TALL x 3'-6" WIDE
13g. INTERIOR VINYL LETTERING ON GLAZING WITHIN 3'-0" x 3'-0" AREA
13h. POST MOUNTED LIT SIGNAGE - 15" TALL x 12'-0" WIDE MAXIMUM
14. SANDBLASTED CAST IN PLACE CONCRETE
15. RECLAIMED WOOD BENCH SLABS
16. CORRUGATED METAL PANEL; CHARCOAL GRAY FINISH
17. STANDING SEAM METAL ROOF; COLOR TO BE CHARCOAL GRAY TO MATCH CORRUGATED METAL PANEL
18. GALVANIZED TUBE STEEL AND MESH GUARD FENCE AND EGRESS GATE
19. BRICK VENEER; MODULAR SIZE IN RUNNING BOND PATTERN, BUFF COLOR
20. BRICK VENEER; MODULAR SIZE IN RUNNING BOND PATTERN, REDDISH BROWN COLOR
21. HOOK AND STRAP FLAT SEAM METAL PANEL; 1/3 OFFSET HORIZONTAL JOINTS, SILVER METALLIC COLOR
22. FIBERGLASS WINDOW AND DOOR WITH INSULATED CLEAR GLASS
23. ALUMINUM RAILING SYSTEM; FINISH TO MATCH HOOK STRAP FLAT SEAM METAL PANEL

CāS4 architecture, llc
303 South Paterson Street; Suite One
Madison, WI 53703
ph 608-709-1250

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CITY OF MADISON DEVELOPMENT REVIEW SUBMITTAL:
Submittal dated: February 17, 2016 for the following Meeting Dates
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UDC Final Approval Submittal dated: April 27, 2016 for May 11, 2016 Meeting Date

NOT FOR CONSTRUCTION

722 Williamson Street Apartments

722 Williamson Street
Madison, WI 53703

Project #: 15003.00

Design Development

Issued for:

No.	Description	Date
01	City of Madison Review	02-17-2016
02	UDC Final Approval	04-27-2016

Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

RENDERED BUILDING ELEVATIONS

A202

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

1 / A203 RENDERED SOUTH ELEVATION
SCALE: 1/8"=1'-0"

2 / A203 RENDERED WEST ELEVATION
SCALE: 1/8"=1'-0"

ELEVATION KEYNOTE LEGEND

1 EXISTING MASONRY TO BE TUCK POINTED AS REQUIRED
2 NEW THERMALLY BROKEN ALUMINUM CLAD WINDOWS; MEDIUM BRONZE FINISH
3 NEW THERMALLY BROKEN ALUMINUM STOREFRONT; FINISH VARIES BY LOCATION
4 NEW THERMALLY BROKEN ALUMINUM GARAGE DOOR SYSTEMS; FINISH VARIES BY LOCATION
5 INSULATED CLEAR GLASS
6 INSULATED TEXTURED GLASS
7 NEW EIFS SYSTEM; REMOVING ALL EXISTING EIFS AND REPLACING WITH 2" EIFS SYSTEM ON DRAINAGE LAYER OR STUCCO AT MINIMUM 12' ABOVE FINISHED GRADE
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13f 1/2" ALUMINUM PLATE SIGNAGE WALL MOUNTED - 18" TALL x 3'-6" WIDE
13g INTERIOR VINYL LETTERING ON GLAZING WITHIN 3'-0" x 3'-0" AREA
13h POST MOUNTED LIT SIGNAGE - 15" TALL x 12'-0" WIDE MAXIMUM
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RENDERED BUILDING ELEVATIONS

A203

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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1 A210 NORTH ELEVATION
SCALE: 1/8"=1'-0"

GENERAL NOTE:
TUCK POINTING TO OCCUR ON MASONRY ON WHERE DETERMINED THROUGH FURTHER INVESTIGATION. MASONRY COMPATIBILITY AND COLOR MATCH WILL BE FOLLOWED

**ALL DETAILING WITHIN FACADE MASONRY TO REMAIN

2 A210 EAST ELEVATION
SCALE: 1/8"=1'-0"

ELEVATION KEYNOTE LEGEND

1 EXISTING MASONRY TO BE TUCK POINTED AS REQUIRED
2 NEW THERMALLY BROKEN ALUMINUM CLAD WINDOWS; MEDIUM BRONZE FINISH
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Checked by: CaS4 Architecture

OVERALL BUILDING ELEVATIONS

A210

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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GENERAL NOTE:
TUCK POINTING TO OCCUR ON MASONRY ON WHERE DETERMINED THROUGH FURTHER INVESTIGATION. MASONRY COMPATIBILITY AND COLOR MATCH WILL BE FOLLOWED

**ALL DETAILING WITHIN FACADE MASONRY TO REMAIN

1 A211 SCALE: 1/8"=1'-0"

SOUTH ELEVATION

GENERAL NOTE:
TUCK POINTING TO OCCUR ON MASONRY ON WHERE DETERMINED THROUGH FURTHER INVESTIGATION. MASONRY COMPATIBILITY AND COLOR MATCH WILL BE FOLLOWED

**ALL DETAILING WITHIN FACADE MASONRY TO REMAIN

2 A211 SCALE: 1/8"=1'-0"

WEST ELEVATION

ELEVATION KEYNOTE LEGEND

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Project #: 15003.00

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01	City of Madison Review	02-17-2016
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Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

OVERALL BUILDING ELEVATIONS

A211

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

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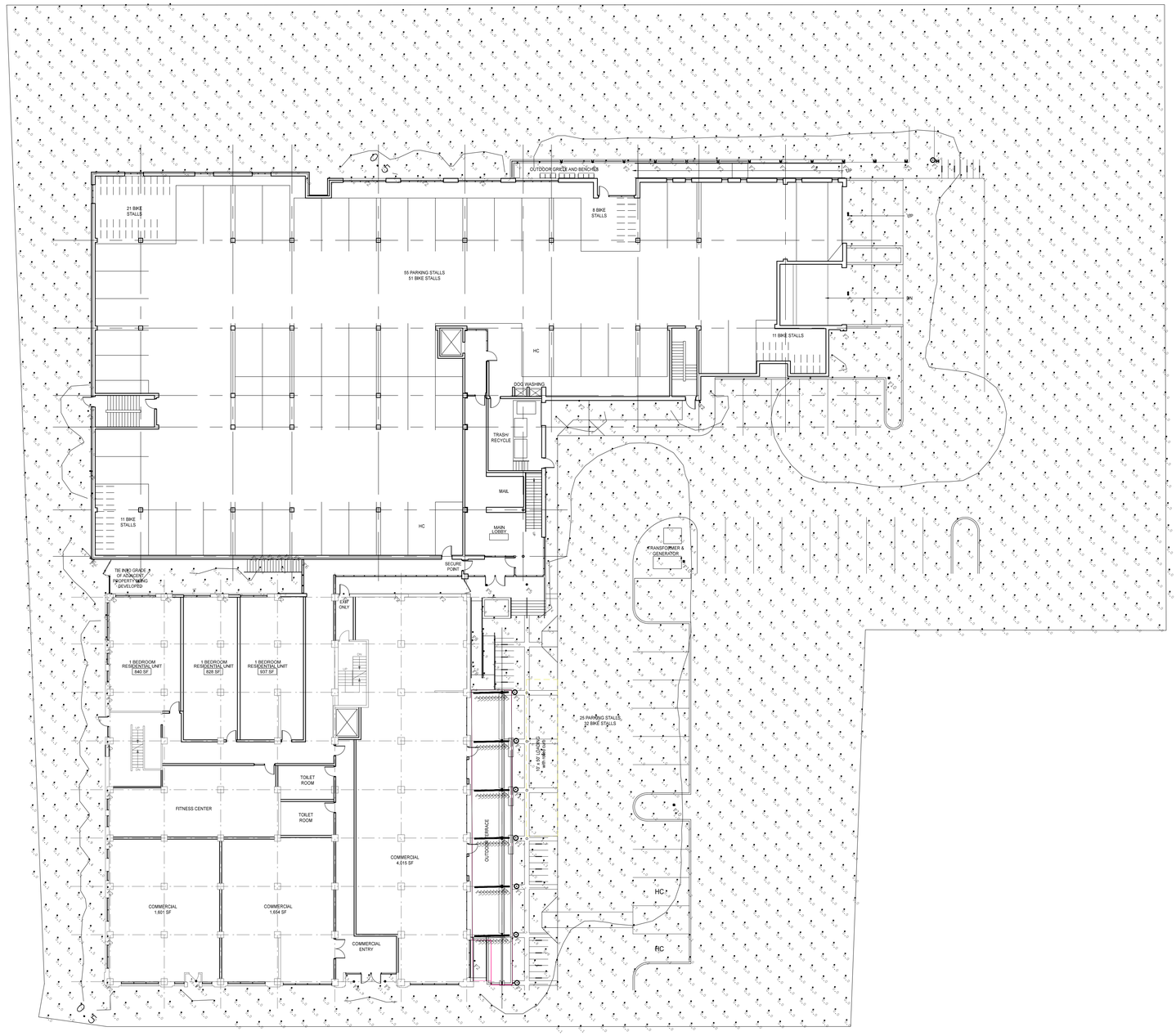

1 E001 OVERALL SITE PHOTOMETRICS
SCALE:1/16"=1'-0"

CaS4 architecture, llc
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Madison, WI 53703
ph 608-709-1250

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722 Williamson Street Apartments
722 Williamson Street
Madison, WI 53703

Project #: 15003.00

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01	City of Madison Review	02-17-2016
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Drawn by: CaS4 Architecture
Checked by: CaS4 Architecture

OVERALL EXTERIOR PHOTMETRICS

E001

Project Name: 722 Williamson Street Apartments
Project #: 15003.00

URBAN

F1

PREPARED BY: _____

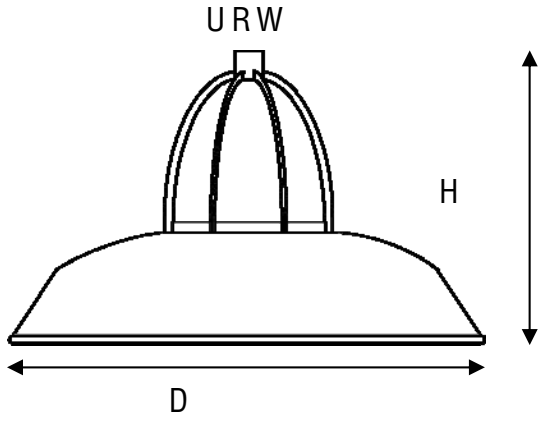
TYPE: _____

JOB NAME: _____

DATE: _____

CERTIFICATION: UL LISTED

MODEL#	D"	H"
URW16	16	12
URW18	18	13.5
URW20	24	20



FINISH-Five stage pretreatment process, coated with a lead free TGI C polyester powder coat finish. White is standard inside reflectors, Except #49-Galvanized, #62-Anodized Bronze and #63-Iron Rust, Unless specified. Custom colors and Marine are available upon request.

MOUNTING- 1/2" or 3/4" tapped hub is supplied. Top or side mount available. Fixtures are pre-wired with 48" or 96" leads. Available with cord or stem sets.

REFLECTOR- Spun from heavy gauge 1100-0 aluminum, ranging in thickness from .050 to .125. Galvanized is from 20 gauge sheets. Copper is spun from .040 gauge and 110 soft alloy.

LAMP HOLDERS- Accommodates **Incandescent** medium base porcelain socket, copper shell with nicked plate, rated 250V, 660W. **Compact Fluorescent** 4 pin heat resistant thermoplastic socket accommodates 26/32W (Gx24q-3 base) and 42W (Gx24q-4 base). Twist lock design provides for vibration and earthquake resistance, rated 75W, 600V. **High Intensity Discharge (H.I.D.)** medium base, 4KV pulse start socket, rated 660W/600V. **LED**. A minimum of 60,000 hours to 100,000 expected life depending on installation location and ambient temperature.

MODEL#	FINISH		LIGHT SOURCE				MOUNTING OPT.
			INC	CF[1]	HID[1]	LED	
URW16	**40-**copper w/ coat **41-**black **42-**dr. green **43-**red **44-**white **45-**med. blue **46-**yellow **48-**polish alum. **49-**galvanized **50-**navy blue **51-**arch. Bronze	**51-**arch. Bronze **52-**patina **53-**rust **54-**stucco **55-**sage **57-**polish alum w/ coat **58-**satin alum. clear coat **59-**coppertone **60-**canal green **61-**anod. charcoal **62-**anod. bronze **63-**iron rust	200W	26W 32W	50W 70W	36W	-Arm extension -Post Mts & Pole -Stem -Cord[2] -Cable & Chain -Hub
URW18						57W	
URW20			300W		35W 50W 70W 100W 150W	79W	

RELABELED FOR MAX 20W

[1]REMOTE BALLAST
[2]INC MAX WATTAGE 150W
CALL FACTORY FOR HIGHER WATTAGE

PHONE: 877-999-1990
FAX: 877-999-1955

12260 EAST END AVE. CHINO, CA 91710

MADE IN U. S. A.

c UL LISTED

Photometric Report (Type C)

Filename: P442.IES
[TEST] P142ICS
[MANUFAC] DELRAY LIGHTING
[LUMCAT] P442
[LUMINAIRE] WHITE DOWNLIGHT REFLECTOR
[LAMPCAT] 1- 42W TRIPLE TUBE 3000K

Maximum Candela = 677 at 0 H 25 V

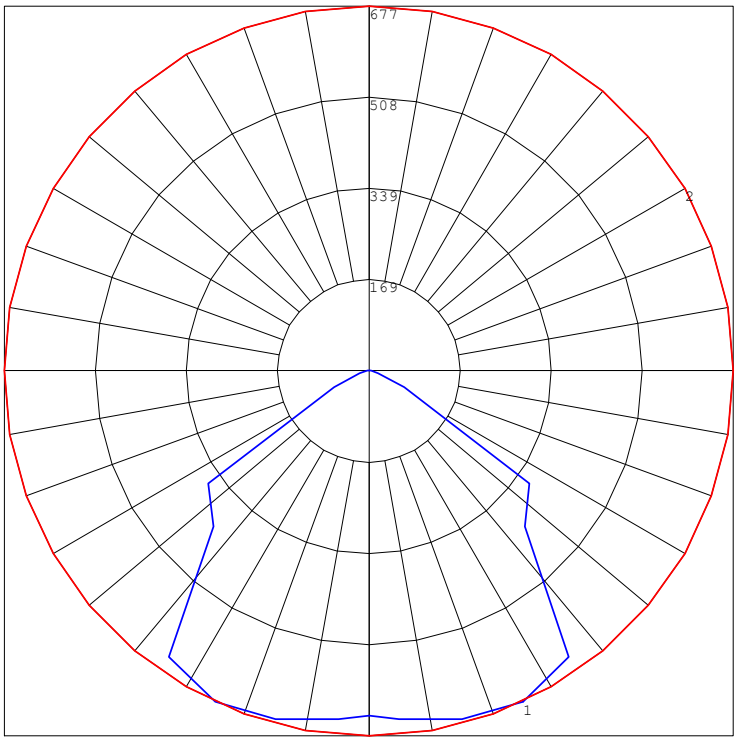
Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 21
Indoor Classification: Direct
BUG Rating : B0-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 25 Vertical



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: P442.IES
[TEST] P142ICS
[MANUFAC] DELRAY LIGHTING
[LUMCAT] P442
[LUMINAIRE] WHITE DOWNLIGHT REFLECTOR
[LAMPCAT] 1- 42W TRIPLE TUBE 3000K

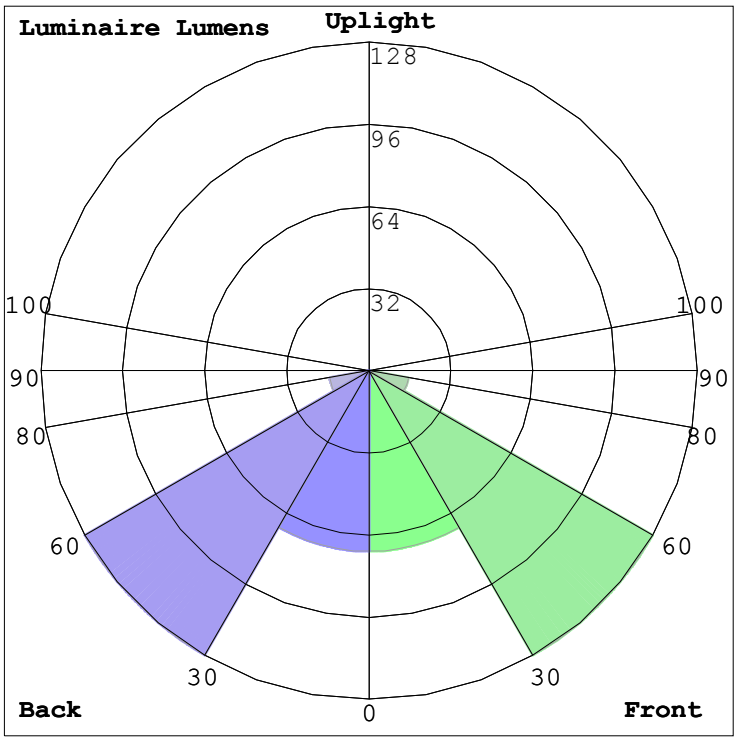
Maximum Candela = 677 at 0 H 25 V

Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 21
Indoor Classification: Direct
BUG Rating : B0-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	70.3	8.8	16.4
FM (30-60)	127.9	16.0	29.8
FH (60-80)	15.6	1.9	3.6
FVH (80-90)	0.6	0.1	0.1
BL (0-30)	70.3	8.8	16.4
BM (30-60)	127.9	16.0	29.8
BH (60-80)	15.6	1.9	3.6
BVH (80-90)	0.6	0.1	0.1
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	428.8	53.6	100.0
BUG Rating	B0-U0-G0		



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CORE 200 SX
sconce

PROJECT

Job _____

Type F2

Part # _____

Notes

SPECIFICATIONS

Source	Xicato XTM LED module - up to 2000 lumens
C.C.T.	2700K, 3000K, 3500K or 4000K
Color Consistency	1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001
CRI (Ra)	83 or 98
Driver / Location	Included / Remote mount or deep canopy options
Dimming	0-10V or phase dimming to 10% standard; DALI, DMX and 1% dimming available
Input Voltage	100 to 277VAC, phase dimmable versions are 120VAC only
Power	Up to 24 watts max, depending on LED module / driver
Reflector	20°, 40° or 60° - field replaceable without tools
Material	CNC machined aluminum with stainless steel hardware
Finish	Powder coat - TGIC polyester for exterior and interior use
Weight	2.1 lb. [0.95 kg], ADA Compliant Version 1.8 lb. [0.8 kg]
Location	Listed for Wet & Damp locations
Approvals	ETL Listed to UL 1598, 2108, 8750 and CSA C22.2# 9 & #250.0
L80 Life	> 50,000 hours at 80% lumen maintenance based on IESNA LM-80-08
Warranty	Lifetime Limited Warranty - see warranty for details
IES Files	LM-79-08 IES files available at www.v2LightingGroup.com/downloads
Modifications	Any modification or customization is possible - consult factory

Intertek 4001580

ORDERING LOGIC

Model	Driver Location	Dimming	Mounting Location	Output	CRI *	C.C.T.	Reflector	Shell Color	Options
C2SS -				-				-	-
	R=Remote	**N**=None	**D**=Damp	**07**=700 lm	**83**=83	**27**=2700K	**20**=20°	**XX**	**ADA**=ADA Compliant
	D=Deep Canopy	**P**=Phase	**W**=Wet	**10**=950 lm	**98**=98*	**30**=3000K	**40**=40°	(see chart on page 4)	
		V=0-10V		**13**=1300 lm		**35**=3500K	**60**=60°		
		Z=Other		**20**=2000 lm		**40**=4000K		**ZZ**=Custom	

* 98 CRI not available in 2000 lm

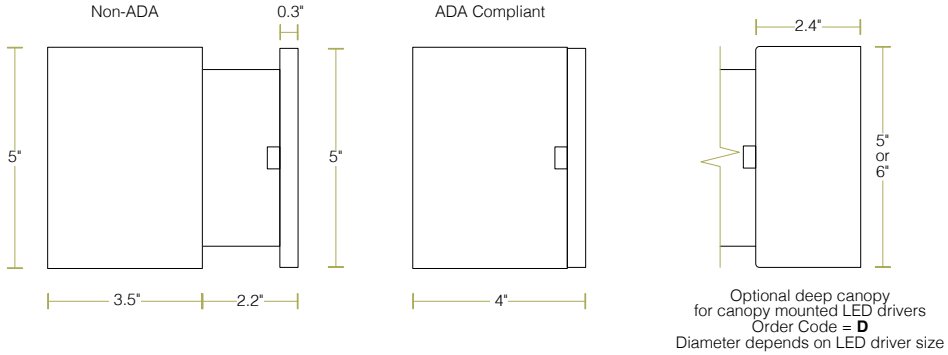
VERIFY FINISH SELECTION WITH ARCHITECT

Example Part Number: **C2SS-RND-13832740-S3**
CORE **2**00 **S**X **S**conce **- R**emote Driver, **N**o Dimming, **D**amp Location **- 13**00 lm, **83** CRI, **27**00K, **40**° Reflector **- S3** Red Shell

 ©2015 v2 Lighting Group, Inc. Specifications subject to change without notice.

CORE 200 SX
sconce

DIMENSIONS



Optional deep canopy
for canopy mounted LED drivers
Order Code = **D**
Diameter depends on LED driver size

All canopies fit standard 3.5" and 4" round and octagonal junction boxes

Not to scale, dimensions are nominal
Consult factory for CAD drawings

LED OPTIONS

Reflector Option	LED Specifications				
	LES[1]	CRI	Lumens[2, 3, 4]	Wattage[5] (W)	Efficacy[6] (lm/W)
20°, 40° & 60°	19mm	Ra = 83 ± 3	700	5.6	129
			950	8.2	118
			1300	11.7	111
			2000	19.5	102
		Ra = 98 R9 ≥ 90 R15 ≥ 95	700	7.4	97
			950	10.9	89
			1300	15.6	83

1 LES: Light Emitting Surface diameter
2 ±10%
3 Source lumens - see photometrics on page 3 for LOR to calculate delivered lumens
4 Higher lumen outputs are available in CORE / QUBE 300 and 400 series
5 Maximum luminaire wattage including LED driver = LED wattage x 1.2
6 Higher efficacies are available via lower drive currents - consult factory

CONTROL OPTIONS

Standard LED Drivers* (included in base price)	Order Code **V** = 0-10V dimming to 10%
	Order Code **P** = Phase dimming to 10% Compatible with both forward and reverse phase dimmers
Optional LED Drivers*	eldoLED 0-10V, DALI, or DMX dimming to 0%
	Lutron Hi-lume™ A-series, EcoSystem or forward phase dimming to 1%
	Lutron Hi-lume™ 5-series, EcoSystem dimming to 5%

* All LED drivers must be mounted in a deep canopy or remote
* Standard LED drivers are suitable for Wet Location
* Optional LED drivers are suitable for Damp Location
* For EM applications:
  All LED drivers may be used with 3rd party inverter style systems

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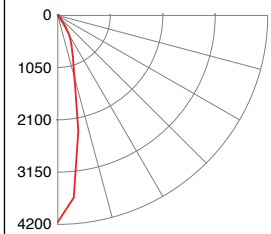
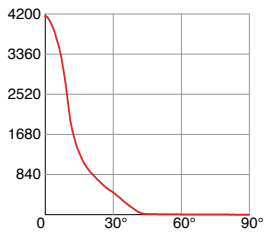
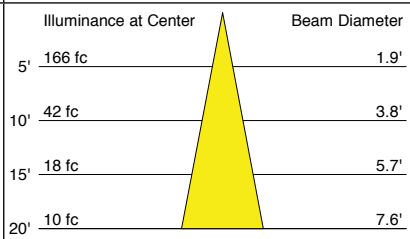
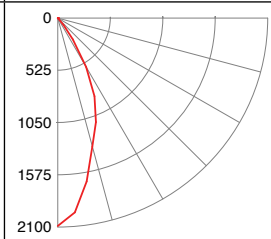
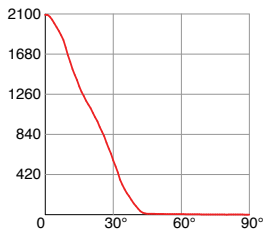
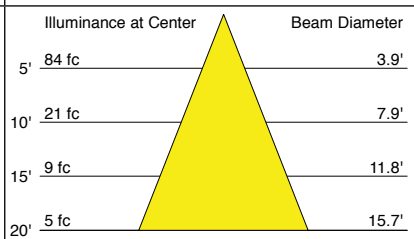
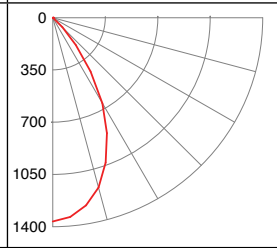
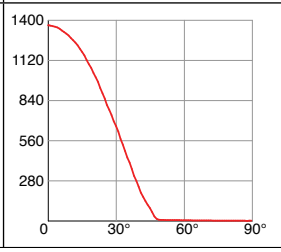
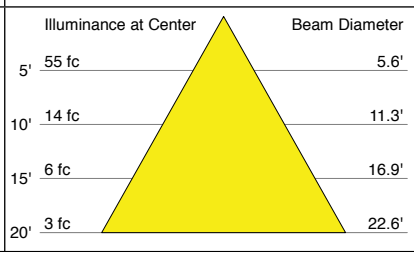
PHOTOMETRICS

LM-79-08 IES files available at www.v2LightingGroup.com/downloads

Beam Angle	Order Code	Intensity Plot (cd) (1300lm)	Polar Plot (cd) (1300lm)	Cone Diagram (1300lm)	Description
20°	**20**				CBCP = 3195 cd/klm Beam Angle = 21° Field Angle = 63° LOR = 89.4% Beam = full width @ 50% Field = full width @ 90%
40°	**40**				CBCP = 1607 cd/klm Beam Angle = 43° Field Angle = 73° LOR = 88.7% Beam = full width @ 50% Field = full width @ 90%
60°	**60**				CBCP = 1050 cd/klm Beam Angle = 59° Field Angle = 86° LOR = 85.2% Beam = full width @ 50% Field = full width @ 90%

Beam Shaping Options

Add the order code shown below to the options box at the end of the part number:

Order Code	Description
-HL	Honeycomb Louver
-DF	Diffusion Lens
-SF	Satin finish on any standard reflector
-LS	Linear Spread Lens (60° x 1°)
-WW	Wall Wash Lens (shifts beam 20° from vertical)

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Photometric Report (Type C)

Filename: CORE 200 700lm 80CRI 600deg.IES
[TEST] Report XSM80XX-700-C with XSA-12 (59deg_70mm
Plastic reflector)-9.7-12_10_2012
[MANUFAC] Xicato Inc, San Jose, CA USA
(http://www.xicato.com)
[LUMCAT] "XSM80xx-700-C with XSA-12 (59deg_70mm
Plastic reflector) - typical module at 70C and 1050mA"
[LUMINAIRE] "XSM80XX-700-C with XSA-12 (59deg_70mm
Plastic reflector)"
[LAMP] "Xicato XSM80xx-700-C - typical module at 70C,
1050mA, 80CRI(min)"

Maximum Candela = 735 at 0 H 0 V

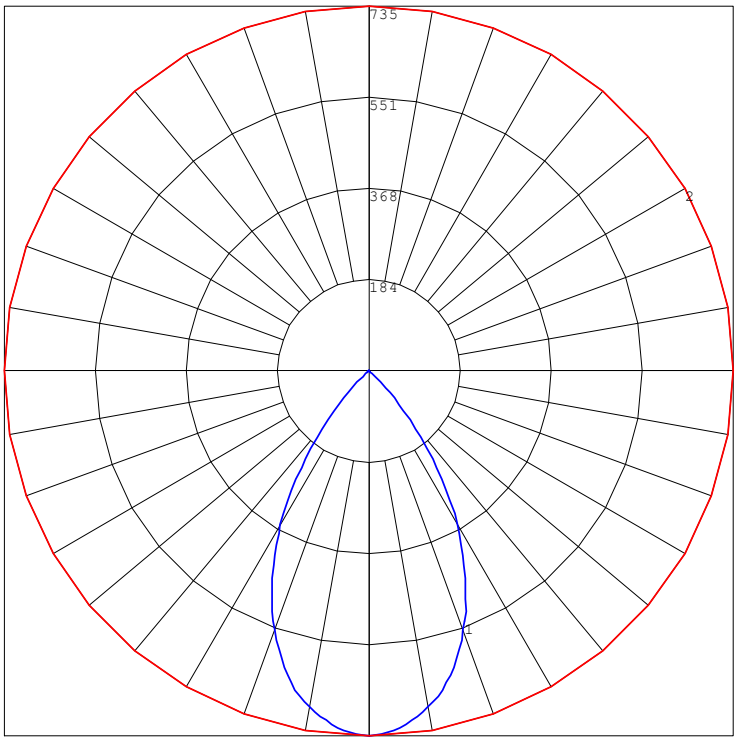
Classification:

Road Classification: Type V, Very Short, Cutoff (deprecated)
Luminaire Efficacy Rating (LER): 65
Indoor Classification: Direct
BUG Rating : B0-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0 Vertical



AGi32/Photometric Report Generator - Copyright 1999-2013 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Project:

Fixture Type: F3

Location:

Contact:

BELL

Wall mounted • Wet location listed

PROGRESS LED

ENERGY STAR

Specifications:

P5676-13630K9

Description:

The one-light wall lantern from the Belle LED Collection features nautical undertones and a cage reminiscent of industrial spaces. Ideal for both interior and exterior settings. 3000K, 90+ CRI, 623 lumens.

Construction:

- Textured Graphite (-136) (powdercoat)
- Aluminum construction
- Glass: Etched glass diffuser
- LED Module is replaceable (Part # 93054049)
- Flicker-free dimming to 10% brightness with most ELV type dimmers (See Dimming Notes)
- CA Title 24 compliant
- Back plate covers a standard 4" hexagonal recessed outlet box
- Mounting strap for outlet box included
- 6" of wire supplied

Images:

Performance:

Number of Modules	1
Input Power	9W
Input Voltage	120V
Input Frequency	60Hz
Lumens/LPW	623/69.2 (LM-79) per module
CCT	3000K
CRI	90
Life	60000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15, Class B
Min. Start Temp	-30
Max. Operating Temp	30
Warranty	5 year warranty
Labels	cCSAus Wet location listed
	ENERGY STAR® qualified

Dimensions:

Width: 5-1/2"
Height: 10-5/8"
Depth: 7-3/8"
H/CTR: 3"

Catalog number:

Base		Finish		Color Temp		CRI
P5676	-	136 - Textured Graphite	-	30K -3000K	-	9 - 90 CRI

Photometric Report (Type C)

Filename: H-16116 200W INC.IES
[TEST] 20083
[MANUFAC] HI-LITE MANUFACTURING - DEEP BOWL
[LUMCAT] H-161-16
[LUMINAIRE] WITH WHITE INTERIOR AND NO LENS
[LAMPCAT] 200W/A21. LUMEN RATING = 3920 LMS.
[LAMP] ONE GE 200 WATT INCANDESCENT LAMP

Maximum Candela = 1007.5 at 0 H 0 V

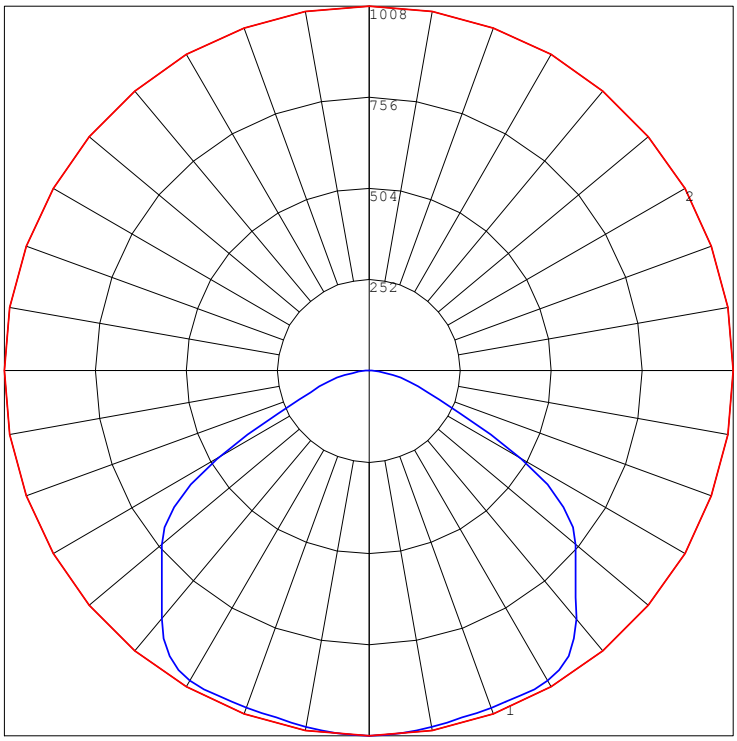
Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 70
Indoor Classification: Direct
BUG Rating : B0-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0 Vertical



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Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: H-16116 200W INC.IES
[TEST] 20083
[MANUFAC] HI-LITE MANUFACTURING - DEEP BOWL
[LUMCAT] H-161-16
[LUMINAIRE] WITH WHITE INTERIOR AND NO LENS
[LAMPCAT] 200W/A21. LUMEN RATING = 3920 LMS.
[LAMP] ONE GE 200 WATT INCANDESCENT LAMP

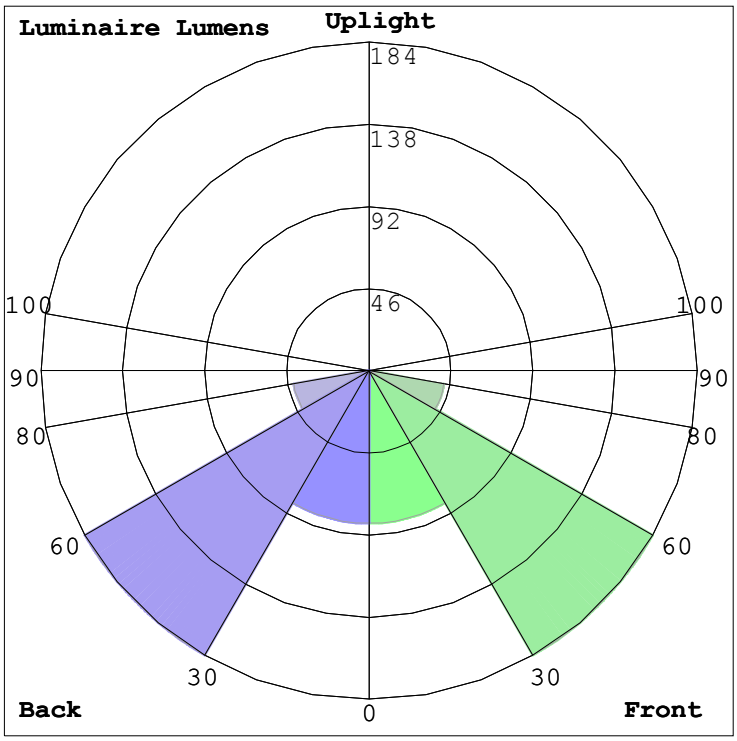
Maximum Candela = 1007.5 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, Full Cutoff (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 70
Indoor Classification: Direct
BUG Rating : B0-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	85.2	10.6	13.5
FM (30-60)	183.6	22.9	29.2
FH (60-80)	42.7	5.3	6.8
FVH (80-90)	3.2	0.4	0.5
BL (0-30)	85.2	10.6	13.5
BM (30-60)	183.6	22.9	29.2
BH (60-80)	42.7	5.3	6.8
BVH (80-90)	3.2	0.4	0.5
UL (90-100)	0.0	0.0	0.0
UH (100-180)	0.0	0.0	0.0
Total	629.4	78.4	100.0
BUG Rating	B0-U0-G0		



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

PROGRESS LIGHTING

BELL

Wall mounted • Wet location listed

PROGRESS LED

ENERGY STAR

P5676-13630K9

Dimming Notes:

P5676 is designed to be compatible with many Electronic Low Voltage (ELV-Reverse Phase) controls.

The following is a partial list of known compatible dimmer controls:

Electronic Low Voltage ELV Reverse Phase Controls

Lutron	Diva Series	(Part Number DVELV-300P)

Digital type dimmers are not recommended.

Dimming capabilities will vary depending on the dimmer control, load, and circuit installation.
Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are trade names or registered trademarks of each respective company.

McGraw-Edison

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightBAR™ technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

Catalog #		Type
Project		F4
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics
Choice of six patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.



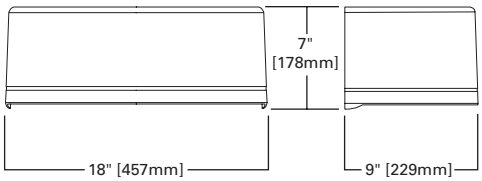

ISC/ISS/IST/ISW
IMPACT ELITE LED

1 - 2 LightBARs
Solid State LED

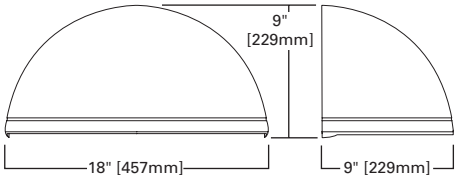
WALL MOUNT LUMINAIRE

DIMENSIONS

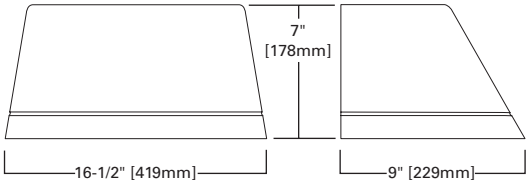
Cylinder



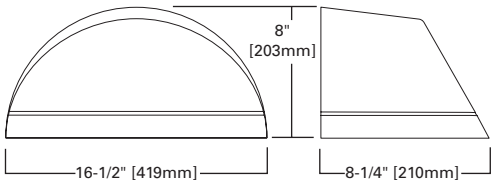
Quarter Sphere



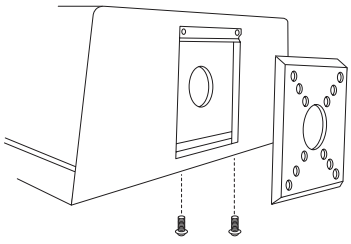
Trapezoid



Wedge



HOOK-N-LOCK MOUNTING



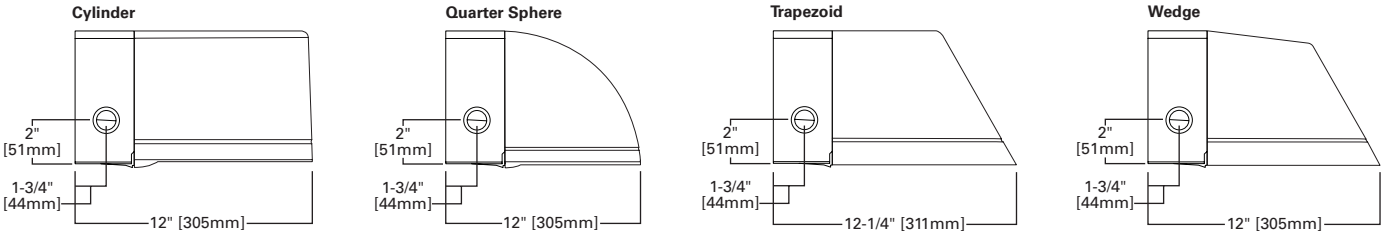
CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightBARs
ISO 9001
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

*www.designlights.org

THRUWAY BACK BOX



POWER AND LUMENS BY BAR COUNT

Number of LightBARs		E01	E02	F01	F02
		21 LED LightBAR		7 LED LightBAR	
Drive Current		350mA		1A	
Power (Watts)	120-277V	25W	47W	26W	50W
Current (A)	120V	0.22	0.40	0.22	0.42
	277V	0.10	0.18	0.10	0.19
Power (Watts)	347V or 480V	31W	52W	32W	55W
Current (A)	347V	0.11	0.16	0.11	0.17
	480V	0.16	0.18	0.16	0.18
Optics					
BL2	Lumens	2,738	5,476	2,260	4,521
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
BL3	Lumens	2,702	5,405	2,231	4,462
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1
BL4	Lumens	2,613	5,225	2,157	4,313
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1
GZW	Lumens	2,785	5,570	2,299	4,598
	Bug Rating	B2-U0-G2	B3-U0-G3	B1-U0-G1	B2-U0-G2
SLR/SLL	Lumens	2,435	4,869	2,010	4,020
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

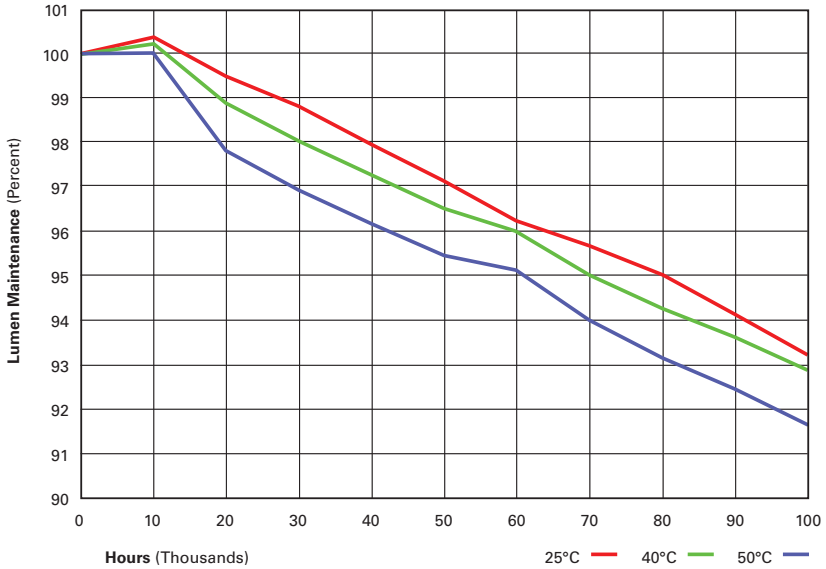
LUMEN MAINTENANCE

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
25ºC	> 99%	> 97%	> 96%	> 93%	> 450,000
40ºC	> 98%	> 97%	> 96%	> 92%	> 425,000
50ºC	> 97%	> 96%	> 95%	> 91%	> 400,000

* Per IESNA TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10ºC	1.02
15ºC	1.01
25ºC	1.00
40ºC	0.99



ORDERING INFORMATION

Sample Number: ISC-E02-LED-E1-BL3-GM

Product Family [1]	Number of LightBARs [2,3]	Lamp Type	Voltage	Distribution	Color [5]
ISC=Impact Elite LED Small Cylinder **ISS**=Impact Elite LED Small Quarter Sphere **IST**=Impact Elite LED Small Trapezoid **ISW**=Impact Elite LED Small Wedge	**E01**=(1) 21 LED LightBAR **E02**=(2) 21 LED LightBARs **F01**=(1) 7 LED LightBAR **F02**=(2) 7 LED LightBARs	**LED**=Solid State Light Emitting Diodes	**E1**=Electronic (120-277V) **347**=347V **480**=480V [4]	**BL2**=Type II w/Back Light Control **BL3**=Type III w/Back Light Control **BL4**=Type IV w/Back Light Control **GZW**=Wall Grazer Wide **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	**Accessories** (Order Separately) [11]
2L=Two Circuits [6] **7030**=70 CRI / 3000K CCT [7] **7050**=70 CRI / 5000K CCT [7] **7060**=70 CRI / 5700K CCT [7] **8030**=80 CRI / 3000K CCT [7] **P**=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) **OSB**=Occupancy Sensor with Back Box (Specify 120V or 277V) [8] **BBB-XX**=Battery Pack with Back Box (Specify 120V or 277V) [9] **CWB-XX**=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) [10] **DIM**=0-10V Dimming Drivers **LCF**=LightBAR Cover Plate Matches Housing Finish **ULG**=Uplight Glow **TR**=Tamper Resistant Hardware	**MA1253**=10kV Circuit Module Replacement **MA1254-XX**=Thruway Back Box - Impact Elite Trapezoid **MA1255-XX**=Thruway Back Box - Impact Elite Cylinder **MA1256-XX**=Thruway Back Box - Impact Elite Quarter Sphere **MA1257-XX**=Thruway Back Box - Impact Elite Wedge

DELIVERED LUMENS IS 4410
FOR 3000K, 80 CRI OPTION

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and greater than 70 CRI. LightBARs for downlight use only.
3. 21 LED LightBAR powered by 350mA and 7 LED LightBAR powered by 1A.
4. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.
6. Low-level output varies by bar count. Consult factory. Not available with 347V or 480V. Available with two bars (E02 or F02) only.
7. Extended lead times apply.
8. Available with E02 or F02, only one bar on street side will be wired to sensor. Time delay factory setting 15-minutes. When ordered with PC option, both bars are connected to photocontrol as primary switching means. Standard sensor lens covers 8' mounting height, 360° coverage, maximum 48' diameter. Not available in all configurations or with BBB or CWB options.
9. Specify 120V or 277V. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
10. Specify 120V or 277V. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
11. Replace XX with color suffix.

Powering Business Worldwide

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

Photometric Report (Type C)

Filename: IST-E02-LED-E1-BL4-8030.ies
[TEST] P139808 REPORT IS SCALED FROM IESNA LM-79-08
TEST DATA (P33646)
[TESTLAB] INNOVATIONS CENTER-P3
[ISSUEDATE] 2/20/2015
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER
LIGHTING)
[LUMCAT] IST-E02-LED-E1-BL4-8030
[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (2) LIGHTBARS
WITH AccuLED OPTICS - TYPE 4 W/ BACK LIGHT CONTROL
[LAMP] (42) 3000K CCT, 80 CRI LEDs

Maximum Candela = 3798.8 at 45 H 67.5 V

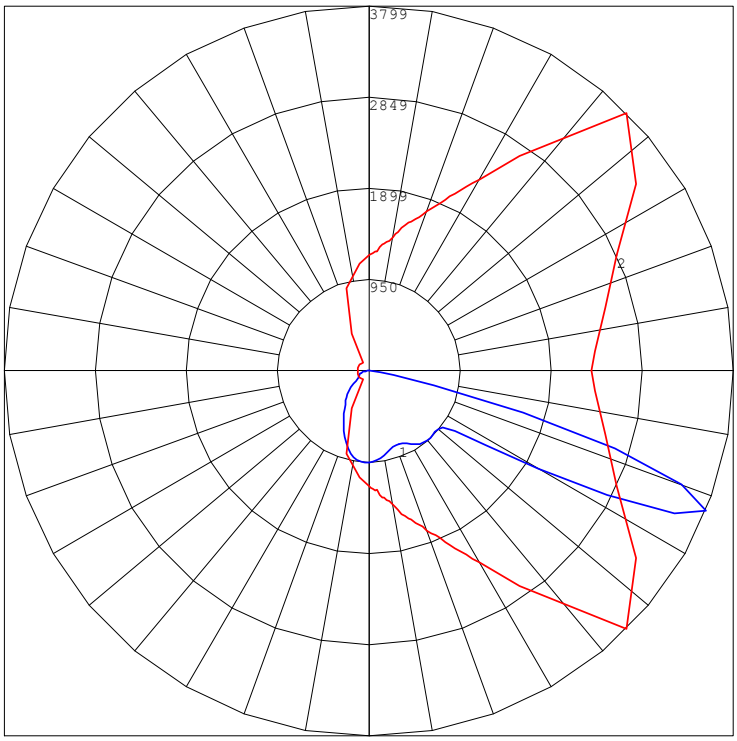
Classification:

Road Classification: Type III, Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 94
Indoor Classification: Direct
BUG Rating : B1-U0-G1

Polar Candela Curves:

Vertical Plane Through:
1) 45 - 225 Horizontal

Horizontal Cone Through:
2) 67.5 Vertical



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: IST-E02-LED-E1-BL4-8030.ies
[TEST] P139808 REPORT IS SCALED FROM IESNA LM-79-08
TEST DATA (P33646)
[TESTLAB] INNOVATIONS CENTER-P3
[ISSUEDATE] 2/20/2015
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER
LIGHTING)
[LUMCAT] IST-E02-LED-E1-BL4-8030
[LUMINAIRE] IMPACT ELITE LED LUMINAIRE (2) LIGHTBARS
WITH AccuLED OPTICS - TYPE 4 W/ BACK LIGHT CONTROL
[LAMP] (42) 3000K CCT, 80 CRI LEDs

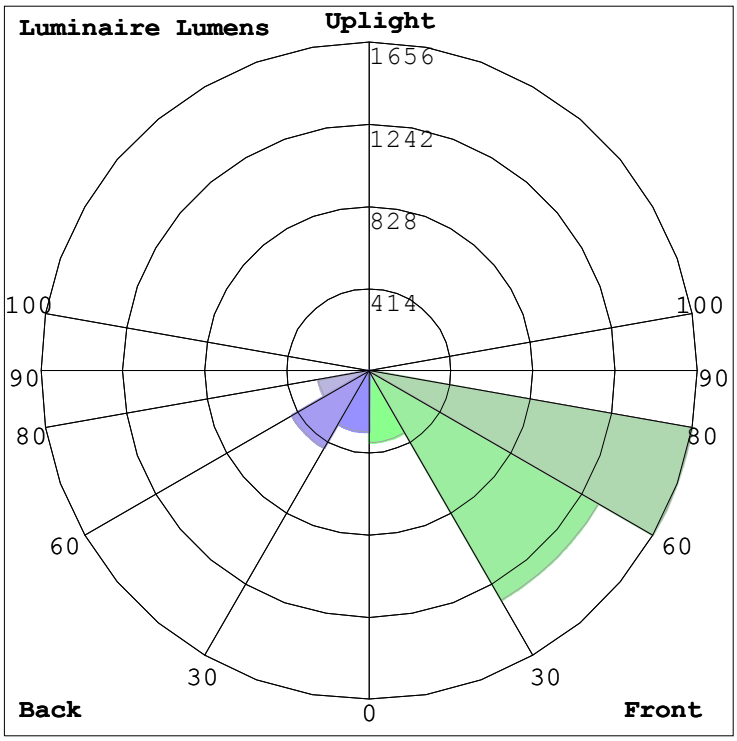
Maximum Candela = 3798.8 at 45 H 67.5 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 94
Indoor Classification: Direct
BUG Rating : B1-U0-G1

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	360.5	N.A.	8.2
FM (30-60)	1336.3	N.A.	30.3
FH (60-80)	1656.3	N.A.	37.6
FVH (80-90)	23.4	N.A.	0.5
BL (0-30)	309.8	N.A.	7.0
BM (30-60)	448.6	N.A.	10.2
BH (60-80)	259.0	N.A.	5.9
BVH (80-90)	16.1	N.A.	0.4
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	4410.0	N.A.	100.0
BUG Rating	B1-U0-G1		



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Halo Commercial

DESCRIPTION

Recessed 6-inch LED lens downlight is available in various distributions, lumen and CRI/CCT options. Suitable for commercial construction and can be used for both new or renovation work. Insulation must be kept 3" from top and sides of housing. Use for general area lighting where high efficiency and visual comfort are required.

Catalog #		Type
Project		F5
Comments		Date
Prepared by		

PD610
PD615
PD620
PD630

PDM6A

61V

1000, 1500, 2000 & 3000 Lumen Series

LED 6-Inch Aperture Lens Downlight

SPECIFICATION FEATURES

MECHANICAL

Frame
Boat shaped galvanized steel frame with adjustable plaster lip accommodates ceilings up to ½ - 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

Mounting Brackets
Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with ½" EMT. Removable to facilitate installation from below the ceiling.

No Fuss™ Bar Hangers
Captive preinstalled bar hanger locks to tee grid with a screwdriver or pliers. Centering mechanism allows consistent positioning of fixtures.

OPTICAL

LED Module
Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation. Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity. See ordering information for available CRI / CCT options. Passive thermal management achieves L70 at 50,000 hours in non IC applications. Integral diffuse lens provides visual shielding. Integral connector allows quick connection to housing flex.

Reflector
One piece parabolic aluminum reflector provides cutoff for a visually comfortable optic. Attaches to LED module with (3) speed clamps minimizing light leaks to lens. Self-flanged standard with an optional white painted flange.

Trim Retention
Reflectors are retained with two torsion springs holding the flange tightly to the finished ceiling surface.

ELECTRICAL

Junction Box
(6) ½" and (2) ¾" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

Driver
Integral UNV 120 - 277V 50/60 Hz constant current driver provides noise free operation. For 347V input use Halo transformer H347 or H347200. Continuous, flicker-free dimming from 100% to 10% with leading or trailing edge phase cut at 120V or 0 -10V analog control.

Emergency Option
Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting. Available with both integral or remote charge indicator and test switch.

Compliance
- cULus listed for wet location
- cCSAus listed for wet location
- IP66 Ingress Protection Rated
- Insulation must be kept 3" from top and sides.
- Airtight per ASTM-E283.
- Optional City of Chicago environmental air (CCEA) marking for plenum applications.
- EMI/RFI emissions per FCC 47CFR Part 18 non-consumer limits.
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
- ENERGY STAR® listed for commercial applications, reference database for current listings.

THD: ≤ 20%
PF: ≥ 0.90
T Ambient -30 - +40°C
Sound Rating ≤ 22dba

Lumens	1000 Series	
Input Voltage	120V	277V
Input Current	.103 A	.058 A
Input Power	12.1 W	13.2 W
Efficiency	88 LPW	88 LPW
Inrush Current	.048 A	.080 A

Lumens	1500 Series	
Input Voltage	120V	277V
Input Current	.146 A	.1 A
Input Power	17.1 W	17.9 W
Efficiency	87 LPW	87 LPW
Inrush Current	1.920 A	0.960 A

Lumens	2000 Series	
Input Voltage	120V	277V
Input Current	.175 A	.536 A
Input Power	20.78 W	21.06 W
Efficiency	89 LPW	89 LPW
Inrush Current	.064 A	.128 A

Lumens	3000 Series	
Input Voltage	120V	277V
Input Current	.299 A	.145 A
Input Power	35.72 W	36.4 W
Efficiency	82 LPW	82 LPW
Inrush Current	.096 A	.928 A

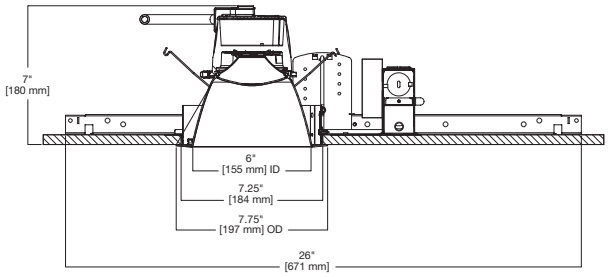
ORDERING INFORMATION

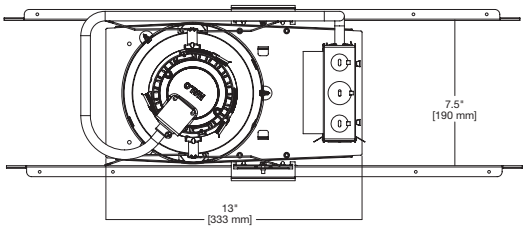
SAMPLE NUMBER: PD610ED010REM-PDM6A827-61VC
A complete luminaire consists of a housing, LED module and reflector, order separately.

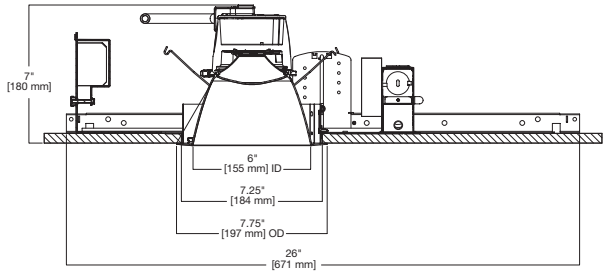
Housing	Lumens	Driver	Options	LED Module	CRI/CCT
PD6 = 6" aperture LED downlight **PD6CP** = 6" aperture LED downlight, CCEA listed for City of Chicago plenum requirements	**10** = 1,000 lumens (nominal) **15** = 1,500 lumens (nominal) **20** = 2,000 lumens (nominal)	**ED010** = 120-277V 50/60Hz, 0-10V and LE/TE phase cut dimming	**REM** = Emergency operation with remote indicator and test switch **IEM** = Emergency operation with integral indicator and test switch, 60 Hz only (REM and IEM options not available with PD6CP housing)	**PDM6A** = Downlight LED module for PD6 housing, provides 1,000, 1,500, 2,000, or 3,000 lumens (nominal) depending on connected housing type	**827** = 80 CRI, 2700K CCT **927** = 90 CRI, 2700K CCT **830** = 80 CRI, 3000K CCT **930** = 90 CRI, 3000K CCT **835** = 80 CRI, 3500K CCT **935** = 90 CRI, 3500K CCT **840** = 80 CRI, 4000K CCT **940** = 90 CRI, 4000K CCT
	30 = 3,000 lumens (nominal)	**D010** = 120-277V 50/60Hz, 0-10V dimming (3,000 lumen only)			

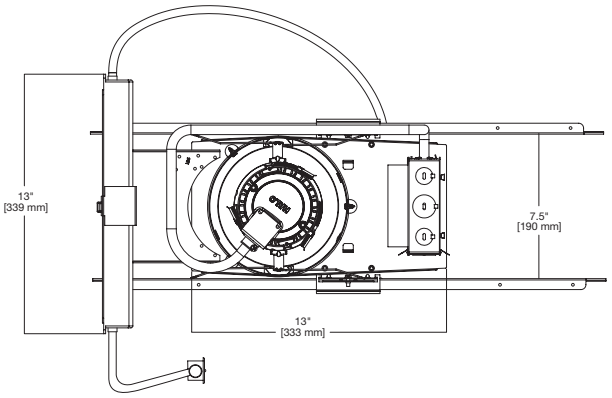
Reflector	Finish Option	Flange Option	Accessories
61V = 6" vertical parabolic reflector **61VEM** = 6" vertical parabolic reflector for IEM	**C** = Specular clear **G** = Specular gold **H** = Semi-specular clear **W** = White (white flange) **BB** = Black baffle (white flange) **WB** = White baffle (white flange)	**Blank** = Polished flange standard with C, G & H reflector finishes **Blank** = White flange standard with W, BB, & WB **WF** = White flange option available with C, G, & H reflector finishes	**HB128APK** = L channel hanger bar, 26", 'No-Fuss', pair (replacement) **RMB22** = 22" long wood joist mounting bars, pair **H347** = Step down transformer for 347V input **H347** = Step down transformer for 347V input, 75VA max **H347200** = Step down transformer for 347V input, 200VA max

DIMENSIONS









COMPLIANCE TABLE

1000 LUMEN

80 CRI															
Catalog #	PD610ED010- PDM6A827				PD610ED010- PDM6A830				PD610ED010- PDM6A835				PD610ED010- PDM6A840			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	1032	77			1109	83			1177	88			1187	89		
61VCWF	1005	75			1080	81			1146	86			1156	86		
61VG	1003	75			1078	80			1144	85			1154	86		
61VGWF	966	72			1039	78			1102	82			1111	83		
61VH	924	69			993	74			1053	79			1062	79		
61VHWF	921	69			990	74			1051	78			1060	79		
61VW	960	72			1032	77			1095	82			1104	82		
61VBB	897	67			964	72			1023	76			1031	77		
61VWB	980	73			1053	79			1118	83			1127	84		

90 CRI																
Catalog #	PD610ED010- PDM6A927				PD610ED010- PDM6A930				PD610ED010- PDM6A935				PD610ED010- PDM6A940			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	795	59			853	64			917	68			1017	76		
61VCWF	775	58			831	62			894	67			990	74		
61VG	773	58			829	62			892	67			988	74		
61VGWF	745	56			799	60			859	64			952	71		
61VH	712	53			763	57			821	61			910	68		
61VHWF	710	53			761	57			819	61			908	68		
61VW	740	55			794	59			854	64			946	71		
61VBB	691	52			741	55			797	59			884	66		
61VWB	755	56			810	60			871	65			966	72		

1500 LUMEN

80 CRI																
Catalog #	PD615ED010- PDM6A827				PD615ED010- PDM6A830				PD615ED010- PDM6A835				PD615ED010- PDM6A840			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	1417	77			1523	82			1616	87			1630	88		
61VCWF	1380	75			1483	80			1574	85			1587	86		
61VG	1377	74			1480	80			1570	85			1584	86		
61VGWF	1327	72			1426	77			1513	82			1526	82		
61VH	1268	69			1363	74			1446	78			1458	79		
61VHWF	1265	68			1359	73			1442	78			1455	79		
61VW	1318	71			1417	77			1503	81			1516	82		
61VBB	1231	67			1323	72			1404	76			1416	77		
61VWB	1346	73			1446	78			1534	83			1548	84		

90 CRI																
Catalog #	PD615ED010- PDM6A927				PD615ED010- PDM6A930				PD615ED010- PDM6A935				PD615ED010- PDM6A940			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	1092	59			1171	63			1260	68			1396	75		
61VCWF	1064	57			1141	62			1227	66			1360	74		
61VG	1061	57			1138	62			1224	66			1357	73		
61VGWF	1022	55			1096	59			1179	64			1307	71		
61VH	977	53			1048	57			1127	61			1249	68		
61VHWF	975	53			1045	57			1124	61			1246	67		
61VW	1016	55			1090	59			1172	63			1299	70		
61VBB	949	51			1018	55			1095	59			1213	66		
61VWB	1037	56			1112	60			1196	65			1326	72		

ES = ENERGY STAR® Compliant

T24 = Can be used to comply with California Title 24 Non-Residential

COMPLIANCE TABLE continued

2000 LUMEN

80 CRI															
Catalog #	PD620ED010- PDM6A827				PD620ED010- PDM6A830				PD620ED010- PDM6A835				PD620ED010- PDM6A840			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	1724	78			1853	84			1966	89			1983	90		
61VCWF	1679	76			1805	82			1915	87			1931	88		
61VG	1675	76			1801	82			1910	87			1927	88		
61VGWF	1614	73			1735	79			1841	84			1856	84		
61VH	1543	70			1658	75			1759	80			1774	81		
61VHWF	1539	70			1654	75			1755	80			1770	80		
61VW	1604	73			1724	78			1829	83			1845	84		
61VBB	1498	68			1610	73			1708	78			1723	78		
61VWB	1637	74			1759	80			1867	85			1883	86		

90 CRI																
Catalog #	PD620ED010- PDM6A927				PD620ED010- PDM6A930				PD620ED010- PDM6A935				PD620ED010- PDM6A940			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	1328	60			1425	65			1532	70			1698	77		
61VCWF	1294	59			1388	63			1493	68			1654	75		
61VG	1291	59			1385	63			1489	68			1651	75		
61VGWF	1244	57			1334	61			1435	65			1590	72		
61VH	1189	54			1275	58			1371	62			1520	69		
61VHWF	1186	54			1272	58			1368	62			1516	69		
61VW	1236	56			1325	60			1426	65			1580	72		
61VBB	1154	52			1238	56			1332	61			1476	67		
61VWB	1262	57			1353	61			1455	66			1613	73		

3000 LUMEN

80 CRI																
Catalog #	PD630D010- PDM6A827				PD630D010- PDM6A830				PD630D010- PDM6A835				PD630D010- PDM6A840			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	2576	72			2768	78			2937	82			2963	83		
61VCWF	2509	70			2697	76			2861	80			2886	81		
61VG	2503	70			2691	75			2855	80			2879	81		
61VGWF	2412	68			2592	73			2750	77			2774	78		
61VH	2305	65			2477	69			2629	74			2651	74		
61VHWF	2299	64			2471	69			2622	73			2645	74		
61VW	2397	67			2576	72			2733	77			2757	77		
61VBB	2238	63			2406	67			2553	72			2575	72		
61VWB	2446	69			2629	74			2790	78			2814	79		

90 CRI																
Catalog #	PD630D010- PDM6A927				PD630D010- PDM6A930				PD630D010- PDM6A935				PD630D010- PDM6A940			
	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24	Lumens	LPW	ES	T24
61VC	1985	56			2129	60			2290	64			2538	71		
61VCWF	1934	54			2074	58			2231	62			2472	69		
61VG	1929	54			2069	58			2226	62			2466	69		
61VGWF	1859	52			1993	56			2144	60			2376	67		
61VH	1776	50			1905	53			2049	57			2271	64		
61VHWF	1772	50			1900	53			2044	57			2265	63		
61VW	1847	52			1981	55			2131	60			2361	66		
61VBB	1725	48			1850	52			1990	56			2205	62		
61VWB	1885	53			2022	57			2175	61			2410	68		

ES = ENERGY STAR® Compliant

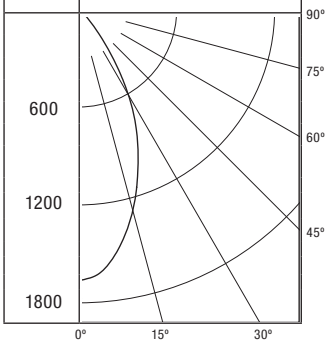
T24 = Can be used to comply with California Title 24 Non-Residential

PHOTOMETRY - 1000 lumen / 80 CRI

PD610ED010- PDM6A835-61VC

Spacing Criteria = 0.76
Lumens per Watt = 97.3 Lm/W
Test No. P137037
Test Model: PD610ED010- PDM6A835-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	1665
5	1614
10	1469
20	1057
30	609
40	166
50	18
60	3
70	1
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	4791
55	497
65	221
75	191
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	55.1	4	4
7	34	5.2	5.2
8	26	6	6
9	20.6	6.8	6.8
10	16.7	7.6	7.6
12	11.6	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	886	75.3
0-40	1113	94.6
0-60	1175	99.8
0-90	1177	100

Scaling factor for the Battery back up:

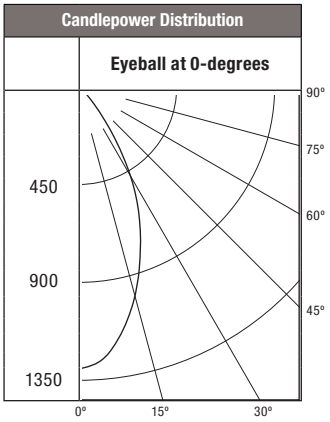
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 1000 lumen / 90 CRI

PD610ED010- PDM6A935-61VC

Spacing Criteria = 0.76
Lumens per Watt = 75.8 Lm/W
Test No. P137041
Test Model: PD610ED010- PDM6A935-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	1298
5	1258
10	1146
20	824
30	475
40	130
50	14
60	2
70	1
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	3737
55	392
65	182
75	148
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	52	4.4	4.4
7'	32.1	5.8	5.8
8'	24.6	6.6	6.6
9'	19.4	7.4	7.4
10'	15.7	8.2	8.2
12'	10.9	10	10

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	691	75.3
0-40	868	94.6
0-60	916	99.8
0-90	917	100

Scaling factor for the Battery back up:

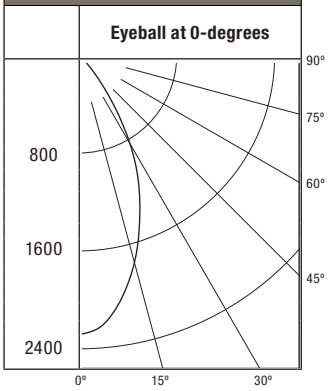
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 1500 lumen / 80 CRI

PD615ED010- PDM6A835-61VC

Spacing Criteria = 0.76
Lumens per Watt = 87.3 Lm/W
Test No. P166938
Test Model: PD615ED010- PDM6A835-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	2287
5	2216
10	2018
20	1452
30	836
40	228
50	25
60	4
70	1
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	6582
55	688
65	311
75	254
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	75.6	4	4
7	46.7	5.2	5.2
8	35.7	6	6
9	28.2	6.8	6.8
10	22.9	7.6	7.6
12	15.9	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1217	75.3
0-40	1529	94.6
0-60	1613	99.8
0-90	1616	100

Scaling factor for the Battery back up:

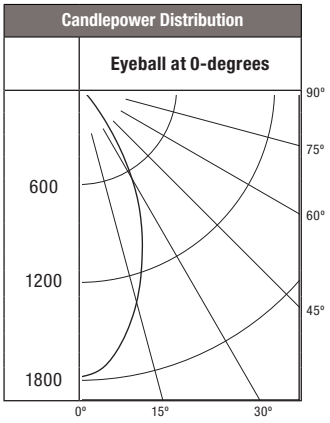
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 1500 lumen / 90 CRI

PD615ED010- PDM6A935-61VC

Spacing Criteria = 0.76
Lumens per Watt = 68.1 Lm/W
Test No. P166942
Test Model: PD615ED010- PDM6A935-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	1783
5	1728
10	1573
20	1132
30	652
40	178
50	20
60	3
70	1
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	5132
55	535
65	246
75	191
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	58.9	4	4
7	36.4	5.2	5.2
8	27.9	6	6
9	22	6.8	6.8
10	17.8	7.6	7.6
12	12.4	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	948	75.3
0-40	1192	94.6
0-60	1257	99.8
0-90	1260	100

Scaling factor for the Battery back up:

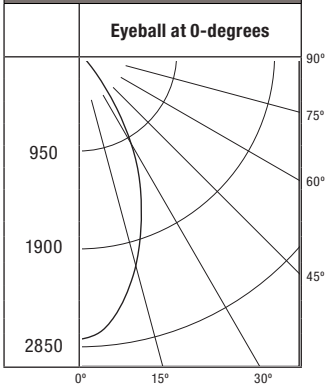
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 2000 lumen / 80 CRI

PD620ED010- PDM6A835-61VC

Spacing Criteria = 0.76
Lumens per Watt = 89.4 Lm/W
Test No. P137021
Test Model: PD620ED010- PDM6A835-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	2782
5	2696
10	2454
20	1766
30	1017
40	278
50	31
60	4
70	2
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	8009
55	832
65	376
75	318
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	92	4	4
7	56.8	5.2	5.2
8	43.5	6	6
9	34.3	6.8	6.8
10	27.8	7.6	7.6
12	19.3	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1480	75.3
0-40	1860	94.6
0-60	1962	99.8
0-90	1966	100

Scaling factor for the Battery back up:

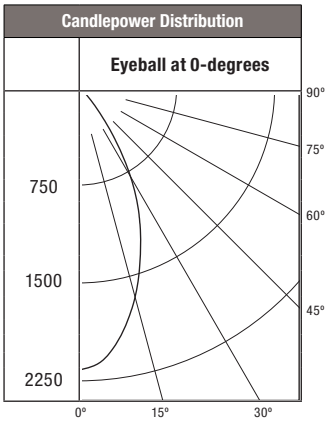
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 2000 lumen / 90 CRI

PD620ED010- PDM6A935-61VC

Spacing Criteria = 0.76
Lumens per Watt = 69.7 Lm/W
Test No. P137025
Test Model: PD620ED010- PDM6A935-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	2168
5	2102
10	1913
20	1377
30	793
40	217
50	24
60	3
70	1
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	6241
55	650
65	298
75	233
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	71.7	4	4
7	44.3	5.2	5.2
8	33.9	6	6
9	26.8	6.8	6.8
10	21.7	7.6	7.6
12	15.1	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1154	75.3
0-40	1450	94.6
0-60	1530	99.8
0-90	1532	100

Scaling factor for the Battery back up:

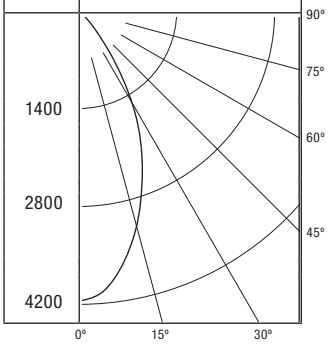
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 3000 lumen / 80 CRI

PD630ED010- PDM6A835-61VC

Spacing Criteria = 0.76
Lumens per Watt = 82.3 Lm/W
Test No. P137053
Test Model: PD630ED010- PDM6A835-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	4157
5	4028
10	3668
20	2639
30	1520
40	415
50	46
60	6
70	2
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	11970
55	1242
65	558
75	466
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	137.4	4	4
7	84.8	5.2	5.2
8	65	6	6
9	51.3	6.8	6.8
10	41.6	7.6	7.6
12	28.9	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	2212	75.3
0-40	2779	94.6
0-60	2932	99.8
0-90	2937	100

Scaling factor for the Battery back up:

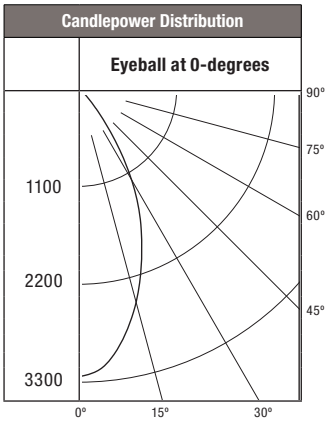
- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

PHOTOMETRY - 3000 lumen / 90 CRI

PD630ED010- PDM6A935-61VC

Spacing Criteria = 0.76
Lumens per Watt = 64.1 Lm/W
Test No. P137057
Test Model: PD630ED010- PDM6A935-61VC

Candlepower Distribution



Candela Distribution	
Degrees Vertical	Candela
0*	3240
5	3140
10	2859
20	2058
30	1185
40	324
50	36
60	5
70	2
80	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	9327
55	975
65	441
75	360
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5	107.1	4	4
7	66.1	5.2	5.2
8	50.6	6	6
9	40	6.8	6.8
10	32.4	7.6	7.6
12	22.5	9	9

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.

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1724	75.3
0-40	2166	94.6
0-60	2286	99.8
0-90	2290	100

Scaling factor for the Battery back up:

- 1000 Lumen = 0.55
- 1500 Lumen = 0.40
- 2000 Lumen = 0.33
- 3000 Lumen = 0.22

Photometric Report (Type C)

Filename: PD610ED010- PDM6A830-61VH.ies
[TEST] P137228 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25143)
[TESTLAB] INNOVATIONS CENTER-P2
[ISSUEDATE] 2/6/2015
[MANUFAC] EATON - HALO COMMERCIAL (FORMER COOPER LIGHTING)
[LUMCAT] PD610ED010- PDM6A830-61VH
[LUMINAIRE] HALO COMMERCIAL 6 INCH RECESSED LED DOWNLIGHT WITH SEMI SPECULAR CLEAR FINISH REFLECTOR
[LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 1064.7 at 0 H 0 V

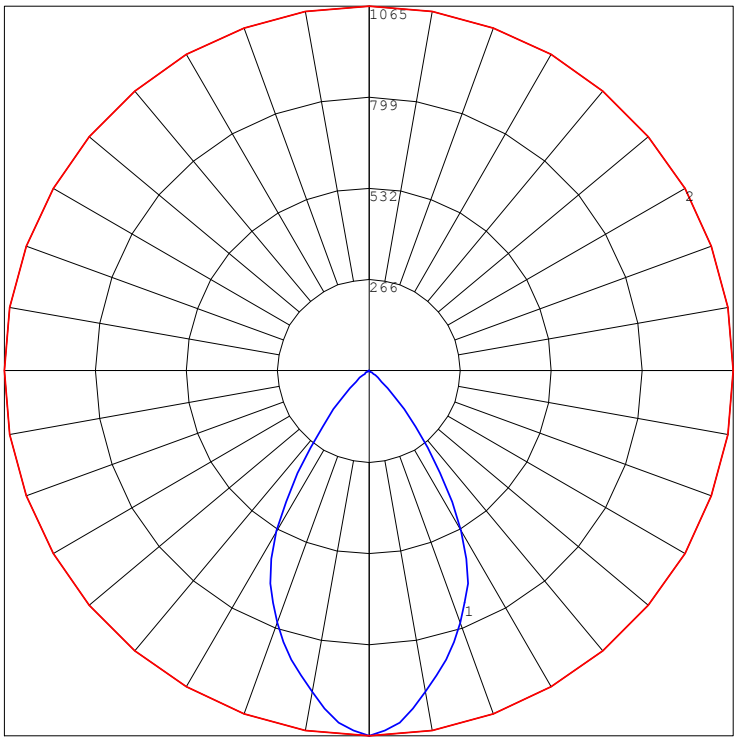
Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 82
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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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: PD610ED010- PDM6A830-61VH.ies
[TEST] P137228 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25143)
[TESTLAB] INNOVATIONS CENTER-P2
[ISSUEDATE] 2/6/2015
[MANUFAC] EATON - HALO COMMERCIAL (FORMER COOPER LIGHTING)
[LUMCAT] PD610ED010- PDM6A830-61VH
[LUMINAIRE] HALO COMMERCIAL 6 INCH RECESSED LED DOWNLIGHT WITH SEMI SPECULAR CLEAR FINISH REFLECTOR
[LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

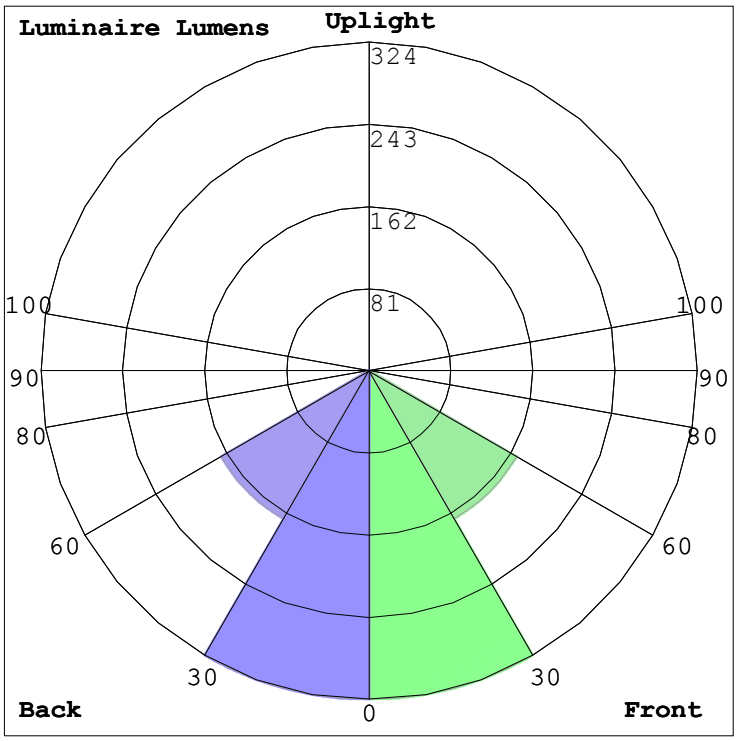
Maximum Candela = 1064.7 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 82
Indoor Classification: Direct
BUG Rating : B1-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	324.4	N.A.	32.7
FM (30-60)	168.6	N.A.	17.0
FH (60-80)	3.2	N.A.	0.3
FVH (80-90)	0.1	N.A.	0.0
BL (0-30)	324.4	N.A.	32.7
BM (30-60)	168.6	N.A.	17.0
BH (60-80)	3.2	N.A.	0.3
BVH (80-90)	0.1	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	992.6	N.A.	100.0
BUG Rating	B1-U0-G0		



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Results derived from content of manufacturers photometric file.

Date:	Approved:
Type: F6	
Fixture:	
Project:	

FCSL550 Series

Exterior Die-Cast Mini Step Light with
Die-Cast or 316 Stainless Steel Faceplate.

FCSL550 FCSL552 FCSL553

ORDERING

GO GREEN SPEED 75 pcs or Less / ships in 2 weeks

EXAMPLE: FCSL550-120V-4K-95-SL

SERIES	VOLTAGE	SOURCE/TEMPERATURE/LAMP	FINISH	ACCESSORIES
FCSL550	**120V**	**LED** **3K** **95** Lumens min (2W)	**BK** Black	**EC** E-Coat (on SL550 only)
FCSL552	**277V**	**4K** **190** Lumens min (3W)	**BZ** Bronze	
FCSL553	**347V**△		**CC** Custom Color	
			SL Silver	
			WH White	
			SS Stainless Steel▲	

△ contact factory

▲ SL552 & SL553 only

SPECIFICATION

MOUNTING

- Concrete pour standard.

CONSTRUCTION

- Marine grade, corrosion resistant, heavy walled, high pressure die-cast aluminum construction.
- Clear *(FCSL550)* or opal, tempered lens.
- 316 stainless steel *(FCSL552, FCSL553 - opal lens standard).*
- Precision formed semi-specular aluminum reflector.
- Neoprene continuous closed cell urethane 'O' ring gasket. Captive stainless steel, tamper resistant hex socket screws.

LED

- Lumens stated are the minimum delivered out of the luminaire. LED lifetime is greater than or equal to 70,000 hours with the lumen depreciation greater than L70. All of our luminaires are tested to LM 80 with a minimum CRI of 80 and color consistency of step 4 MacAdam Ellipse. Integral power supply standard. Input voltage 120V or 277V. Consult factory for non-white static color LED options; Red, Green, Blue or Amber.

FINISH

- Six stage chemical pre-treatment process that includes iron phosphate, to prepare the substrate for a UV stable, super durable standard polyester powder coat. Optional e-coat process is added to the standard finish including zinc phosphate for a 5 year limited warranty on the finish. Brushed 316 stainless steel faceplate *(FCSL552, FCSL553 only).*

ELECTRICAL

- **Ballast** UL listed electronic driver standard with 5 year manufacturers warranty.

LISTING

- UL & cUL listed for interior and exterior wet locations. IP65 rating.

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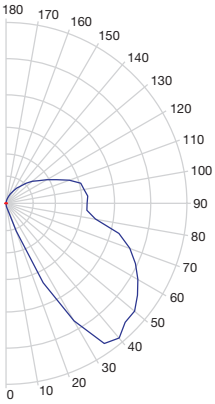
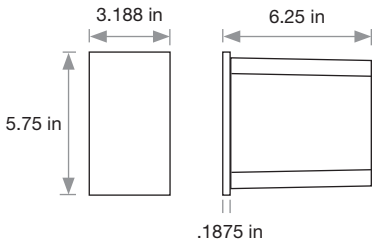
PHOTOMETRY

FCSL550



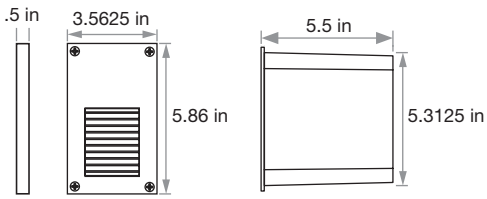
PVC - DIMENSIONS



PVC Outer Housing

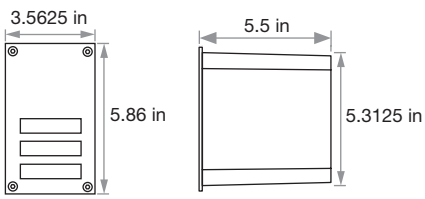
DIMENSIONS

FCSL550



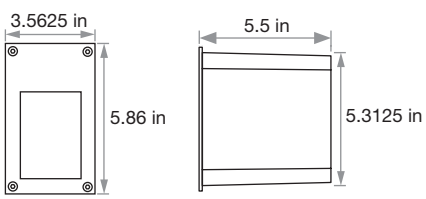
Faceplate | Inner Housing

FCSL552



Faceplate | Inner Housing

FCSL553



Faceplate | Inner Housing

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Photometric Report (Type C)

Filename: FCSL550-LED.IES
[ISSUEDATE] 6-5-2009
[MANUFAC] FC LIGHTING
[LUMCAT] FCSL550 LED-5W
[LUMINAIRE] FCSL550 STEP LIGHT

Maximum Candela = 81.647998175025 at 0 H 45 V

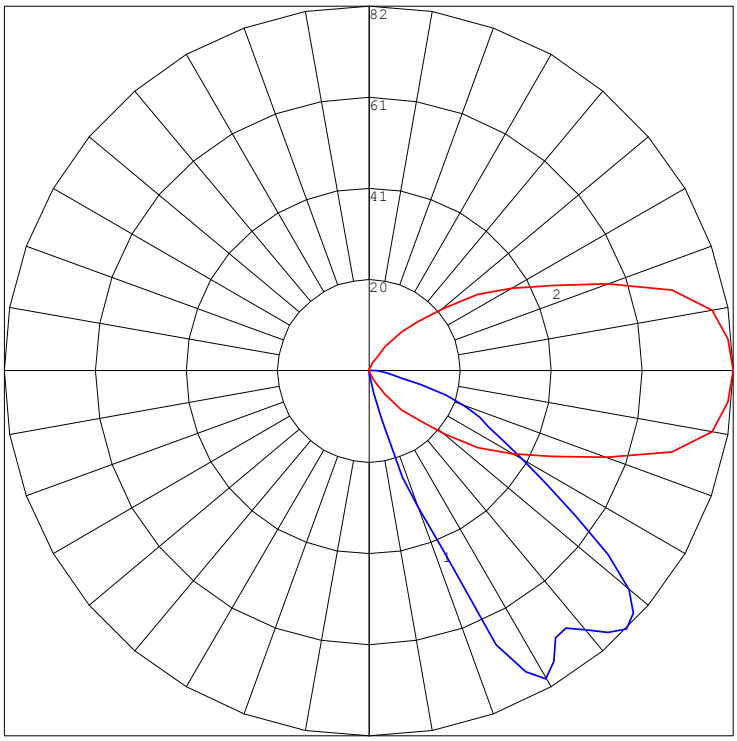
Classification:

Road Classification: Type II, Very Short, Cutoff (deprecated)
Upward Wast Light Ratio: 0.01
Luminaire Efficacy Rating (LER): 22
Indoor Classification: Direct
BUG Rating : B0-U1-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 45 Vertical



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: FCSL550-LED.IES
[ISSUEDATE] 6-5-2009
[MANUFAC] FC LIGHTING
[LUMCAT] FCSL550 LED-5W
[LUMINAIRE] FCSL550 STEP LIGHT

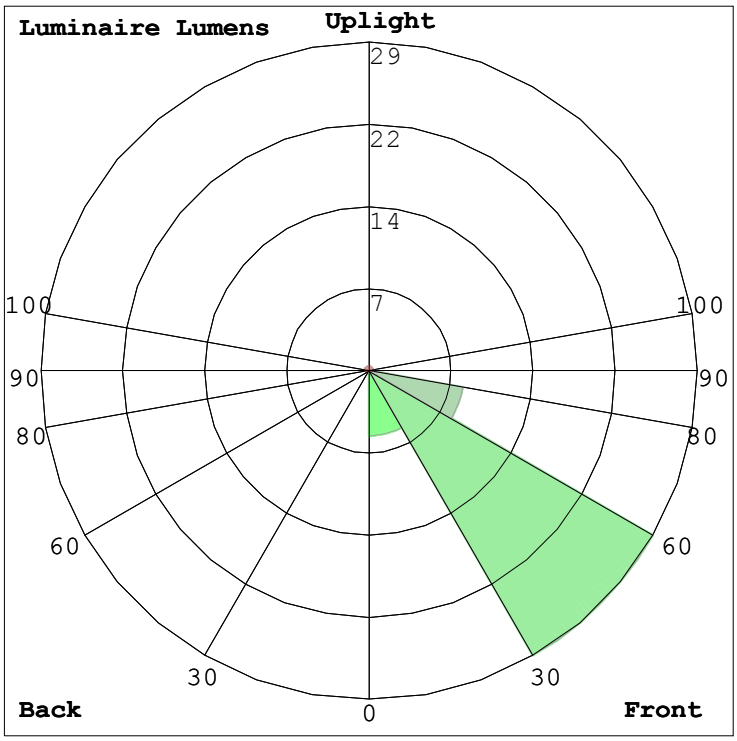
Maximum Candela = 81.647998175025 at 0 H 45 V

Classification:

Road Classification: Type II, Very Short, Cutoff (deprecated)
Upward Waste Light Ratio: 0.01
Luminaire Efficacy Rating (LER): 22
Indoor Classification: Direct
BUG Rating : B0-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	5.7	2.4	12.9
FM (30-60)	29.0	12.1	65.3
FH (60-80)	8.4	3.5	18.9
FVH (80-90)	0.7	0.3	1.7
BL (0-30)	< 0.05	0.0	0.0
BM (30-60)	< 0.05	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)	0.2	0.1	0.4
UH (100-180)	0.4	0.2	0.8
Total	44.4	18.6	100.0
BUG Rating	B0-U1-G0		



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

solid state luminaires

Type: F7
Fixture:
Project:

Approved:

eCOVELINE XL WET

The **eCOVELINE XL WET** is a powerful and versatile interior / exterior cove luminaire. **eCOVELINE XL WET** comes in a 1 ft, 4 ft or 6 ft nominal lengths and 24K, 27K, 3K, 35K or 4K color temperatures. The housing is constructed of extruded aluminum with tooled end caps and is IP66 rated for interior & exterior use. Features IP68 line voltage Plug N' Play connectors for easy installation. Power supply is integral, no remote driver required. Universal orientation fixture; up, down, horizontal or vertical positioning and 2 optical solutions. Flicker free dimmable to 3% full brightness ELV trailing edge dimming.

SPECIFICATION

color temperature	2400K (consult factory)	2700K	3000K	4000K
beam spread	30° x 80° - 120°			
lumen output		530 per foot	538 per foot	555 per foot (35K also)
LEDs per foot	14			
color consistency	3-step MacAdam Ellipse / CRI ≥ 84			
lifetime	> 70,000 hours / L70 or better			
input voltage	Universal 120–277V AC			
power consumption	6W per foot			
dimensions [L x W x H]	12.25" x 1.77" x 1.9"	47" x 1.77" x 1.9"	70.25" x 1.77" x 1.9"	
weight	1.3 lbs. per foot			
housing	extruded aluminum housing with tooled end caps			
lens	etched polycarbonate			
mounting	surface mounting with (+/– 15°), Adjustable Bracket (80°/15° Bi-directional)			
operating temperature	-10°C to 40°C			
junction temperature	66°C @ T_A 25°C			
interface	dimmable to 3% full brightness, (ELV) electronic low-voltage trailing edge, synchronized w/ soft shut-off			
power supply	integral Class II, electronic high-power factor >94%			
certification	ETL / cETL or CE			
standards	UL-Class I / IES LM-79 / LM-80			
environment	wet, exterior location / IP66 (Connectors IP68)			
warranty	5 year limited warranty (refer to website for details)			

Due to continuous development and improvements, specifications are subject to change without notice.

CATALOG NUMBER

ECVLXWET

model	length	temperature	optics	accessories
ECVLXWET eCOVELINE XL WET	**1** 305 mm [12 in.]	**24K** 2400K **	**3080** 30° x 80° beam	**BL** Black Louvre
	4 1189 mm [46.8 in.]	**27K** 2700K	**120** 120° x 120° beam	**ADB** Adjustable Bracket (80°/15° Bi-directional)
	6 1778 mm [70 in.]	**3K** 3000K		**ADB90** Adjustable Bracket Angle 90°
		35K 3500K **		**BEA** Bracket Extension Arm (Up to 18")
		4K 4000K		**SC10W** 10 ft. Starter Connection Cord
				TCAPW Terminator Cap
				EC12W 12 in. Extension Cord
				EC24W 24 in. Extension Cord
				EC60W 60 in. Extension Cord
				REQUIRED: Starter Cable (SC10W) and Terminator Cap (TCAPW) for every run.
				Maximum Run Length = 100 feet

** Consult factory (minimum order quantity)

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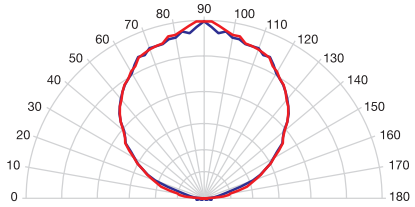
3609 Swenson Ave., St. Charles, IL 60174. **www.solidstateluminaires.com**

solid state luminaires

PHOTOMETRY

ECVLXWET-1-120-4K-120°



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	140	25%
0-40	233	42%
0-60	418	75%
60-90	130	24%
0-90	548	99%
90-180	7	1%
0-180	555	100%

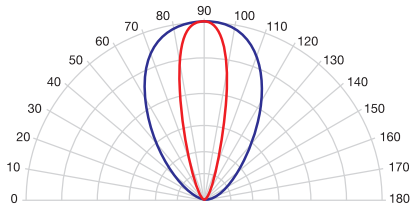
Efficiency Total: 98%

Illuminance at a Distance

	center beam fc	beam width	
8 ft	3 fc	25 ft	25 ft
4 ft	12 fc	12 ft	13 ft
1ft	189 fc	3 ft	3 ft

– beam spread: 115°

ECVLXWET-1-120-4K-30°x 80°



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	378	67%
0-40	477	85%
0-60	545	97%
60-90	14	3%
0-90	560	99%
90-180	1	1%
0-180	561	100%

Efficiency Total: 99%

Illuminance at a Distance

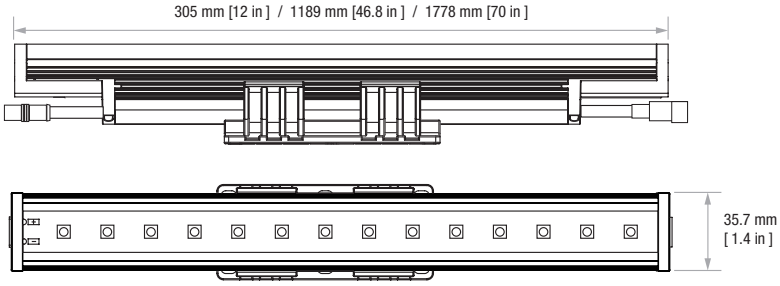
	center beam fc	beam width	
8 ft	11 fc	6 ft	9 ft
4 ft	47 fc	3 ft	5 ft
1ft	747 fc	1 ft	1 ft

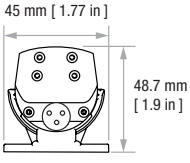
PERFORMANCE

Model	Connected Wattage	Delivered Lumens 2700K	3000K	4000K
ECVLXWET-1	6	530	538	555
ECVLXWET-4	24	2120	2152	2220
ECVLXWET-6	36	3180	3228	3330

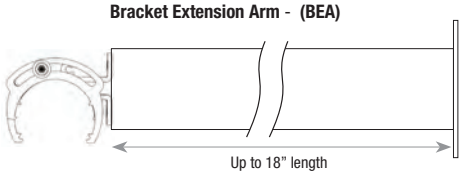
DIMENSIONS

Available in 4 lengths

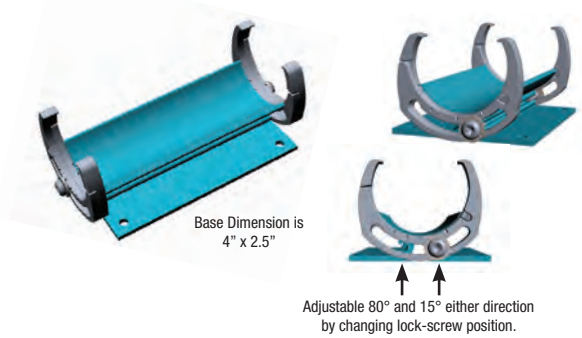




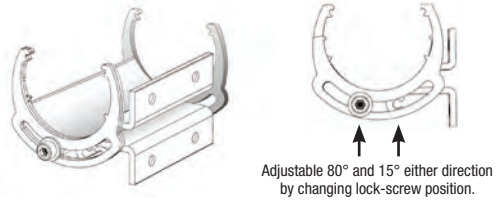
Bracket Extension Arm - (BEA)



ADJUSTABLE BRACKET (ADB)



ADJUSTABLE BRACKET 90° (ADB90)



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3609 swenson ave., st. charles, il 60174. **www.solidstateluminaires.com**

Photometric Report (Type C)

Filename: SSL-eCOVELINE XL WET-3K-1FT-120DEG.IES
[TESTLAB] EVERLIGHT
[ISSUEDATE] 2013-11-27
[MANUFAC] SSL
[LUMCAT] SSL eCOVELINE XL WET 1FT 3000K 120 DEGREE
[LUMINAIRE] 1' LINEAR eCOVELINE XL WET FIXTURE W/ 120 DEGREE OPTIC
[LAMP] LM 80 DIODES 3000K

Maximum Candela = 147.629884711504 at 0 H 11 V

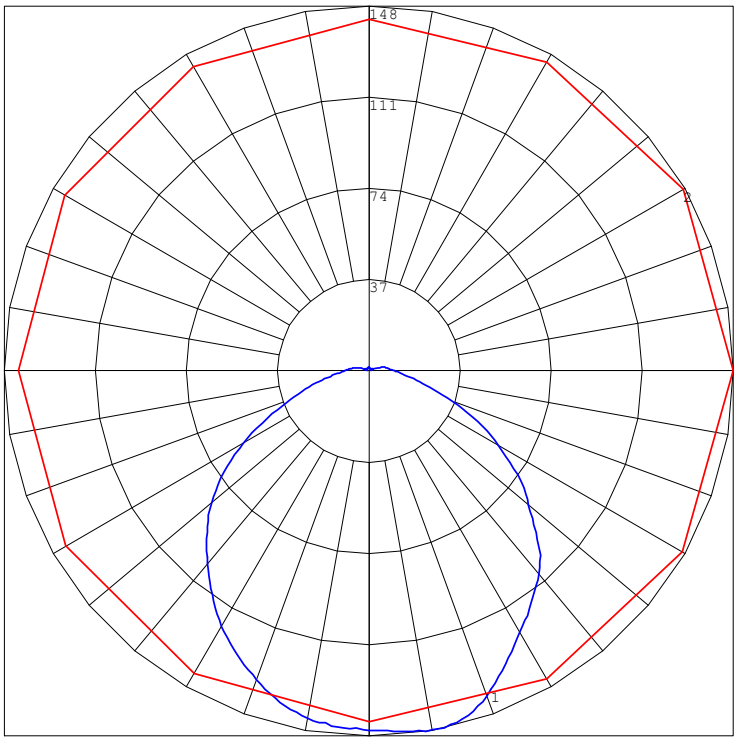
Classification:

Road Classification: Type VS, Very Short, Cutoff (deprecated)
Upward Wast Light Ratio: 0.04
Luminaire Efficacy Rating (LER): 69
Indoor Classification: Direct
BUG Rating : B0-U1-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 11 Vertical



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: SSL-eCOVELINE XL WET-3K-1FT-120DEG.IES
[TESTLAB] EVERLIGHT
[ISSUEDATE] 2013-11-27
[MANUFAC] SSL
[LUMCAT] SSL eCOVELINE XL WET 1FT 3000K 120 DEGREE
[LUMINAIRE] 1' LINEAR eCOVELINE XL WET FIXTURE W/ 120 DEGREE OPTIC
[LAMP] LM 80 DIODES 3000K

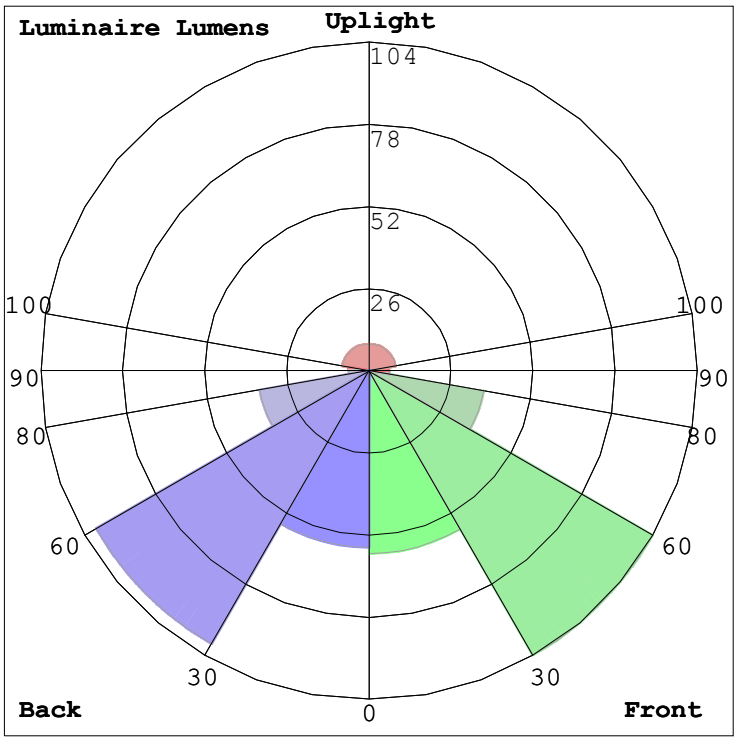
Maximum Candela = 147.629884711504 at 0 H 11 V

Classification:

Road Classification: Type VS, Very Short, Cutoff (deprecated)
Upward Waste Light Ratio: 0.04
Luminaire Efficacy Rating (LER): 69
Indoor Classification: Direct
BUG Rating : B0-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	57.6	13.8	13.9
FM (30-60)	103.6	24.8	24.9
FH (60-80)	36.8	8.8	8.9
FVH (80-90)	6.6	1.6	1.6
BL (0-30)	55.6	13.3	13.4
BM (30-60)	99.5	23.9	23.9
BH (60-80)	35.0	8.4	8.4
BVH (80-90)	6.2	1.5	1.5
UL (90-100)	6.3	1.5	1.5
UH (100-180)	8.5	2.0	2.0
Total	415.7	99.6	100.0
BUG Rating	B0-U1-G0		



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CORE 200 SX
sconce

PROJECT

Job _____

Type F8

Part # _____

Notes

SPECIFICATIONS

Source	Xicato XTM LED module - up to 2000 lumens
C.C.T.	2700K, 3000K, 3500K or 4000K
Color Consistency	1x2 SDCM (MacAdam) along BBL, CCT +/- 40K to 70K, Duv +/- .001
CRI (Ra)	83 or 98
Driver / Location	Included / Remote mount or deep canopy options
Dimming	0-10V or phase dimming to 10% standard; DALI, DMX and 1% dimming available
Input Voltage	100 to 277VAC, phase dimmable versions are 120VAC only
Power	Up to 24 watts max, depending on LED module / driver
Reflector	20°, 40° or 60° - field replaceable without tools
Material	CNC machined aluminum with stainless steel hardware
Finish	Powder coat - TGIC polyester for exterior and interior use
Weight	2.1 lb. [0.95 kg], ADA Compliant Version 1.8 lb. [0.8 kg]
Location	Listed for Wet & Damp locations
Approvals	ETL Listed to UL 1598, 2108, 8750 and CSA C22.2# 9 & #250.0
L80 Life	> 50,000 hours at 80% lumen maintenance based on IESNA LM-80-08
Warranty	Lifetime Limited Warranty - see warranty for details
IES Files	LM-79-08 IES files available at www.v2LightingGroup.com/downloads
Modifications	Any modification or customization is possible - consult factory

Intertek 4001580

ORDERING LOGIC

Model	Driver Location	Dimming	Mounting Location	Output	CRI *	C.C.T.	Reflector	Shell Color	Options
C2SS -				-				-	-
	R=Remote	**N**=None	**D**=Damp	**07**=700 lm	**83**=83	**27**=2700K	**20**=20°	**XX**	**ADA**=ADA Compliant
	D=Deep Canopy	**P**=Phase	**W**=Wet	**10**=950 lm	**98**=98*	**30**=3000K	**40**=40°	(see chart on page 4)	
		V=0-10V		**13**=1300 lm		**35**=3500K	**60**=60°		
		Z=Other		**20**=2000 lm		**40**=4000K		**ZZ**=Custom	

* 98 CRI not available in 2000 lm

VERIFY FINISH SELECTION WITH ARCHITECT

Example Part Number: **C2SS-RND-13832740-S3**
CORE **2**00 **S**X **S**conce **- R**emote Driver, **N**o Dimming, **D**amp Location **- 13**00 lm, **83** CRI, **27**00K, **40**° Reflector **- S3** Red Shell

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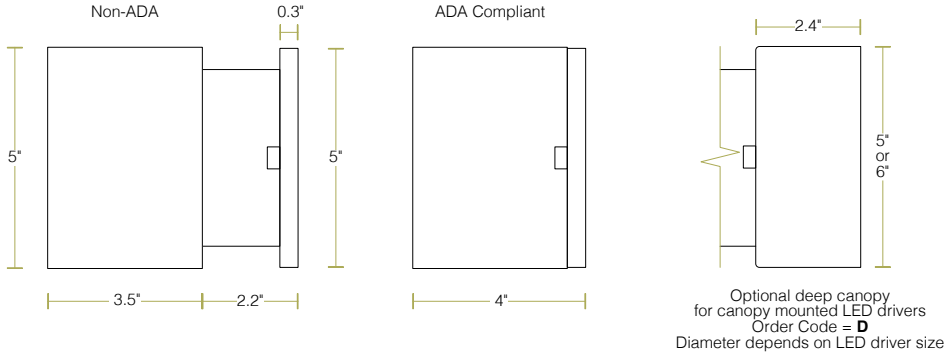
CORE 200 SX
sconce

DIMENSIONS



Optional deep canopy
for canopy mounted LED drivers
Order Code = **D**
Diameter depends on LED driver size

All canopies fit standard 3.5" and 4" round and octagonal junction boxes

Not to scale, dimensions are nominal
Consult factory for CAD drawings

LED OPTIONS

Reflector Option	LED Specifications				
	LES[1]	CRI	Lumens[2, 3, 4]	Wattage[5] (W)	Efficacy[6] (lm/W)
20°, 40° & 60°	19mm	Ra = 83 ± 3	700	5.6	129
			950	8.2	118
			1300	11.7	111
			2000	19.5	102
		Ra = 98 R9 ≥ 90 R15 ≥ 95	700	7.4	97
			950	10.9	89
			1300	15.6	83

1 LES: Light Emitting Surface diameter
2 ±10%
3 Source lumens - see photometrics on page 3 for LOR to calculate delivered lumens
4 Higher lumen outputs are available in CORE / QUBE 300 and 400 series
5 Maximum luminaire wattage including LED driver = LED wattage x 1.2
6 Higher efficacies are available via lower drive currents - consult factory

CONTROL OPTIONS

Standard LED Drivers* (included in base price)	Order Code **V** = 0-10V dimming to 10%
	Order Code **P** = Phase dimming to 10% Compatible with both forward and reverse phase dimmers
Optional LED Drivers*	eldoLED 0-10V, DALI, or DMX dimming to 0%
	Lutron Hi-lume™ A-series, EcoSystem or forward phase dimming to 1%
	Lutron Hi-lume™ 5-series, EcoSystem dimming to 5%

* All LED drivers must be mounted in a deep canopy or remote
* Standard LED drivers are suitable for Wet Location
* Optional LED drivers are suitable for Damp Location
* For EM applications:
  All LED drivers may be used with 3rd party inverter style systems

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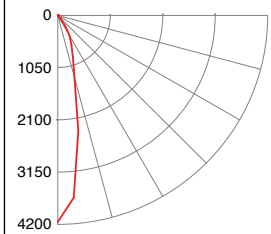
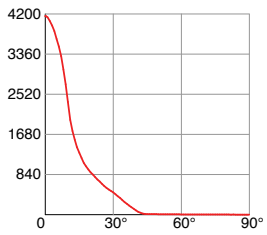
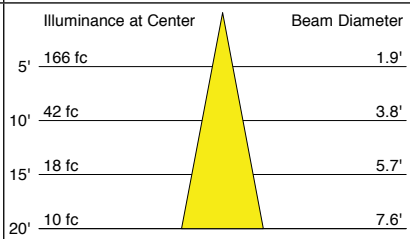
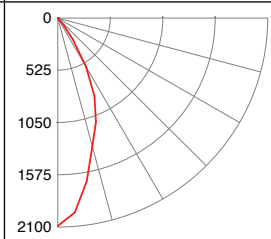
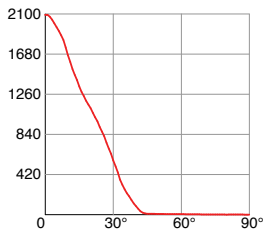
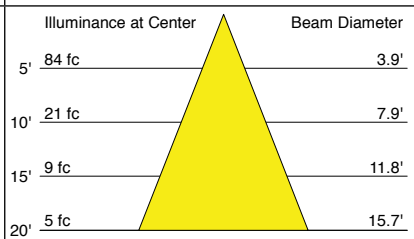
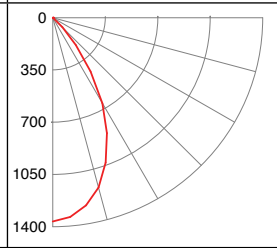
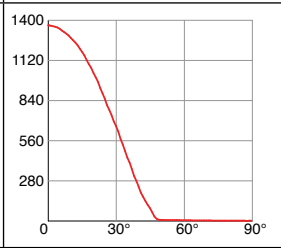
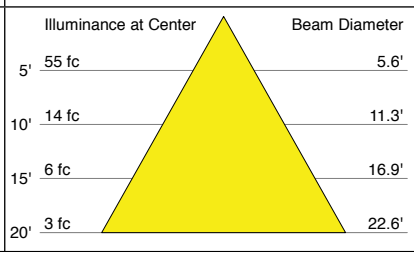
PHOTOMETRICS

LM-79-08 IES files available at www.v2LightingGroup.com/downloads

Beam Angle	Order Code	Intensity Plot (cd) (1300lm)	Polar Plot (cd) (1300lm)	Cone Diagram (1300lm)	Description
20°	**20**				CBCP = 3195 cd/klm Beam Angle = 21° Field Angle = 63° LOR = 89.4% Beam = full width @ 50% Field = full width @ 90%
40°	**40**				CBCP = 1607 cd/klm Beam Angle = 43° Field Angle = 73° LOR = 88.7% Beam = full width @ 50% Field = full width @ 90%
60°	**60**				CBCP = 1050 cd/klm Beam Angle = 59° Field Angle = 86° LOR = 85.2% Beam = full width @ 50% Field = full width @ 90%

Beam Shaping Options

Add the order code shown below to the options box at the end of the part number:

Order Code	Description
-HL	Honeycomb Louver
-DF	Diffusion Lens
-SF	Satin finish on any standard reflector
-LS	Linear Spread Lens (60° x 1°)
-WW	Wall Wash Lens (shifts beam 20° from vertical)

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Photometric Report (Type C)

Filename: CORE 200 1300lm 80CRI 60deg.IES
[TEST] Report XSM80XX-1300-C with XSA-12 (59deg_70mm
Plastic reflector)-17.8-12_10_2012
[MANUFAC] Xicato Inc, San Jose, CA USA
(http://www.xicato.com)
[LUMCAT] "XSM80XX-1300-C with XSA-12 (59deg_70mm
Plastic reflector) - typical module at 70C and 1050mA"
[LUMINAIRE] "XSM80XX-1300-C with XSA-12 (59deg_70mm
Plastic reflector)"
[LAMP] "Xicato XSM80XX-1300-C - typical module at 70C,
1050mA, 80CRI(min)"

Maximum Candela = 1365 at 0 H 0 V

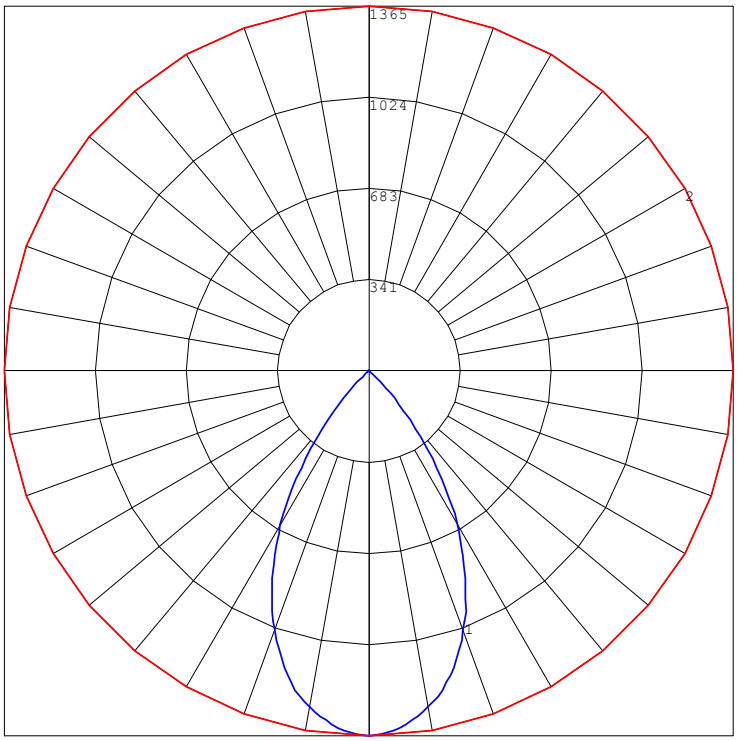
Classification:

Road Classification: Type V, Very Short, Cutoff (deprecated)
Luminaire Efficacy Rating (LER): 67
Indoor Classification: Direct
BUG Rating : B0-U1-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0 Vertical



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

F9

12V | Litesphere™ LED Strand

CAT:	FEET:
TYPE:	PROJECT:

Energy-efficient, low voltage strand lighting using wedge-base LED lamps protected by clear, frosted or colored polycarbonate globes.

Features
- Flexible 16AWG. cord available in Black or White with matching socket.
- Shatterproof, polycarbonate, O-ring fitted globes protect lamps with clarity and seamless appearance.
- Socket is parallel wired and permanently fixed to cord.
- Field cuttable.

Mounting
Each Socket has mounting holes for screw attachment in under-eve applications. Use 1/8" stainless steel wire cable (by others) and included hanger clips for festoon applications.

Applications
Ideal for indoor and outdoor applications.

Warranty
3 years

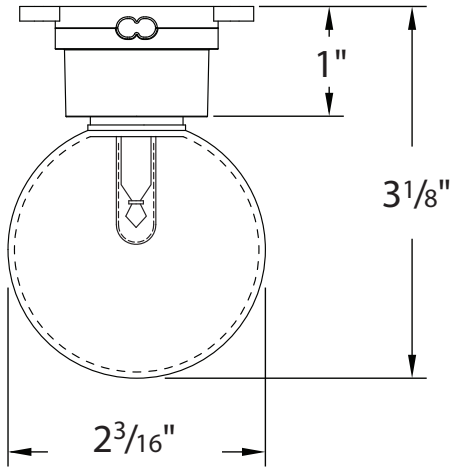
MADE IN USA IP65 DIMMABLE c UL us LISTED

Technical Information

Lamp Spacing	6" O.C.	12" O.C.	18" O.C.	24" O.C.
*Lumens/ft(**STD**)	8	4	3	2
*Lumens/ft (**HO**)	24	12	9	6
*Watts/ft (**STD**)	0.2	0.1	0.08	0.05
*Watts/ft (**HO**)	0.52	0.26	0.20	0.13
Lumens/watt (**STD**)	40			
*Lumens/watt (**HO**)	46			
CRI	> 80/TYP83			
LED Colors	1900°K, 2700°K, 3000°K, 3500°K, 4000°K (+/- 80°K) 3SDCM			
Rated Life	75,000 hr.			
Ordering Increment	1'			
Operating Voltage	12V DC			
Power Supply	Class 2			
Dimming	Yes			

* 3000°K Sample

Profile Dimensions



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www.tivolilighting.com tel: 714-957-6101 fax: 714-427-3458

Recommended Power Supplies

CAT NO	APPLICATION	PRIMARY AND SECONDARY	TOTAL WATTAGE / AMPS PER BREAKER	LISTING	DIMENSIONS	ELECTRONIC OR AC MAGNETIC
ADNM-80-1-5-12-D	Outdoor	120-277V AC / 12V DC	60W / 1X5A	cULus	12"W X 12"L X 4"D	Electronic
ADNM-150-2-5-12-D		120-277V AC / 12V DC	120W / 2X5A	cULus	12"W X 12"L X 4"D	
ADNM-240-3-5-12-D		120-277V AC / 12V DC	180W / 3X5A	cULus	12"W X 12"L X 4"D	
ADNM-320-4-5-12-D		120-277V AC / 12V DC	240W / 4X5A	cULus	12"W X 12"L X 4"D	
ADUL-80-1-5-12-D	Indoor	120-277V AC / 12V DC	60W / 1X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
ADUL-150-2-5-12-D		120-277V AC / 12V DC	120W / 2X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
ADUL-240-3-5-12-D		120-277V AC / 12V DC	180W / 3X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
ADUL-320-4-5-12-D		120-277V AC / 12V DC	240W / 4X5A	UL/ETL/CSA	10"W X 10"L X 4"D	
MT-60-1-5-12-D	Indoor/Outdoor	120V AC / 12V DC	60W / 1X5A	cULus	2.50"W X 12.32"L X 1.56"D	
MT-60-1-5-12-DD		120V AC / 12V DC	60W / 1X5A	cULus	2.50"W X 12.32"L X 1.56"D	
JT-60-1-5-12-D		120V AC / 12V DC	60W / 1X5A	cETLus	4.25"W X 8.50"L X 3.25"D	Magnetic
JTH-60-1-5-12-D		277V AC / 12V DC	60W / 1X5A	cETLus	4.25"W X 8.50"L X 3.25"D	
JT-240-4-5-12-D		120V AC / 12V DC	240W / 4X5A	cETLus	8.50"W X 16.00"L X 4.50"D	
JTH-240-4-5-12-D		277V AC / 12V DC	240W / 4X5A	cETLus	8.50"W X 16.00"L X 4.50"D	

Dimming Interface

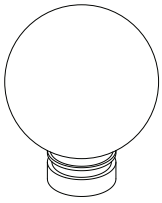
DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MAX LOAD	CIRCUIT BREAKERS	CIRCUIT CAPACITY	DIMENSION
DIM-OT	DIM-OT-1-4-5-D	Indoor	12V/24V	12V/24V	96W	1	5A /4A	7"L X 1½"W X ¾"H

Ordering Information

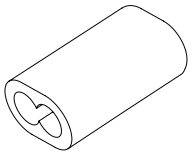
PRODUCT CODE	WIRE	LAMP SPACING	LED	LED COLOR	*GLOBE COLOR	VOLTAGE	REQUIRED POWER SUPPLY
LSL						12	PSU
LSL = Litesphere LED™	B = Black W = White	06 = 6" O.C. 12 = 12" O.C. 18 = 18" O.C. 24 = 24" O.C.	H = High Output S = Standard Output	19 = 1900°K 27 = 2700°K 30 = 3000°K 35 = 3500°K 40 = 4000°K	C = Clear F = Frosted Y = Yellow R = Red O = Orange G = Green B = Blue P = Purple Z = Varied Colors	12 = 12V DC	See Above

* for best results use 3500°K, with colored bulb.

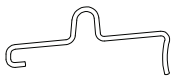
Wiring Accessories



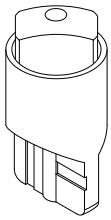
LS-CG Clear
LS-FG Frosted
LS-YG Yellow
LS-RG Red
LS-OG Orange
LS-GG Green
LS-BG Blue
LS-PG Purple



LS-EC-BK
Black end cap
LS-EC-WH
White end cap



LS-HANG-CLIP
Hanger clip for installation from 8 gauge stainless steel aircraft cable



STANDARD	HIGH OUTPUT
LSL-19-S-12 12V Wedge base 1900°K	**LSL-19-H-12** 12V Wedge base 1900°K
LSL-27-S-12 12V Wedge base 2700°K	**LSL-27-H-12** 12V Wedge base 2700°K
LSL-30-S-12 12V Wedge base 3000°K	**LSL-30-H-12** 12V Wedge base 3000°K
LSL-35-S-12 12V Wedge base 3500°K	**LSL-35-H-12** 12V Wedge base 3500°K
LSL-40-S-12 12V Wedge base 4000°K	**LSL-40-H-12** 12V Wedge base 4000°K

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Photometric Report (Type C)

Filename: GLEON-AE-01-LED-E1-SL4-7030-HSS.ies
[TEST] P126770 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
[TESTLAB] Innovations Center P2
[ISSUEDATE] 2/17/2014
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER LIGHTING)
[LUMCAT] GLEON-AE-01-LED-E1-SL4-7030-HSS
[LUMINAIRE] GALLEON LED AREA AND ROADWAY LUMINAIRE (1) 70 CRI, 3000K, 1A LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD

Maximum Candela = 3153 at 40 H 69 V

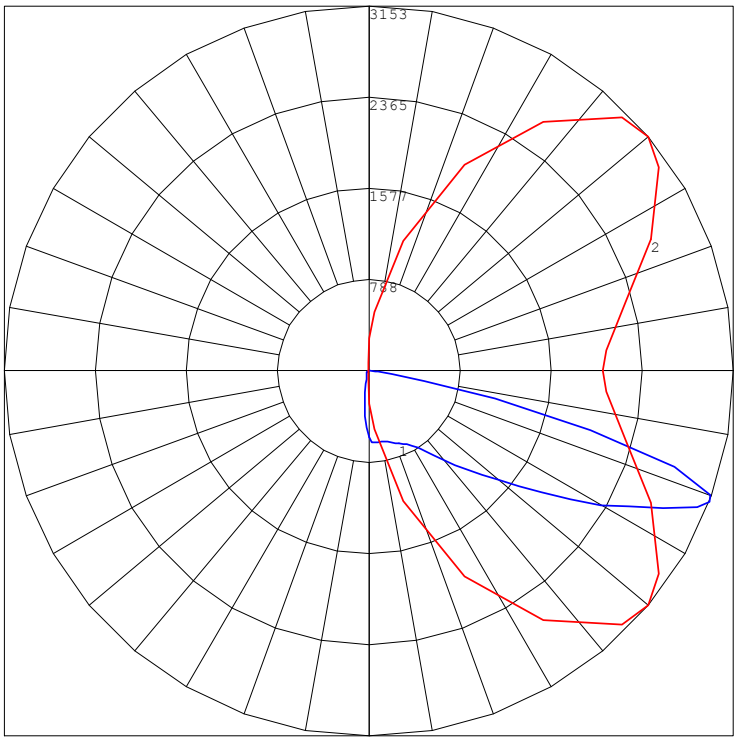
Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 69
Indoor Classification: Direct
BUG Rating : B0-U0-G1

Polar Candela Curves:

Vertical Plane Through:
1) 40 - 220 Horizontal

Horizontal Cone Through:
2) 69 Vertical



AGi32/Photometric Report Generator - Copyright 1999-2013 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

Photometric Report (Type C)

Filename: GLEON-AE-01-LED-E1-SL4-7030-HSS.ies
[TEST] P126770 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
[TESTLAB] Innovations Center P2
[ISSUEDATE] 2/17/2014
[MANUFAC] EATON - McGRAW-EDISON (FORMER COOPER LIGHTING)
[LUMCAT] GLEON-AE-01-LED-E1-SL4-7030-HSS
[LUMINAIRE] GALLEON LED AREA AND ROADWAY LUMINAIRE (1) 70 CRI, 3000K, 1A LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD

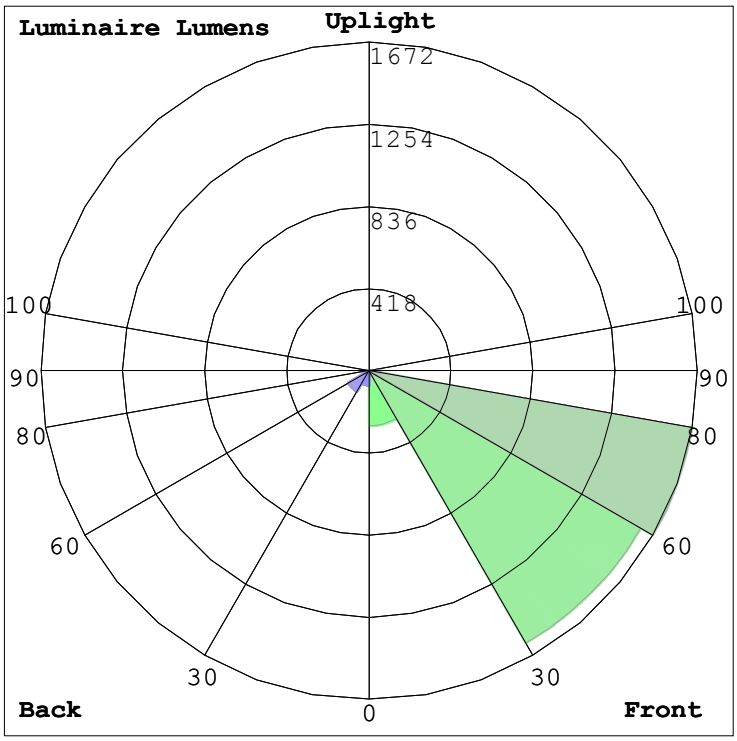
Maximum Candela = 3153 at 40 H 69 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 69
Indoor Classification: Direct
BUG Rating : B0-U0-G1

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	280.6	N.A.	7.3
FM (30-60)	1599.8	N.A.	41.7
FH (60-80)	1671.6	N.A.	43.6
FVH (80-90)	60.6	N.A.	1.6
BL (0-30)	72.7	N.A.	1.9
BM (30-60)	120.7	N.A.	3.1
BH (60-80)	29.2	N.A.	0.8
BVH (80-90)	2.0	N.A.	0.1
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	3837.2	N.A.	100.0
BUG Rating	B0-U0-G1		



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

McGraw-Edison

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #		Type
Project		F10
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated. QUICK MOUNT ARM: Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

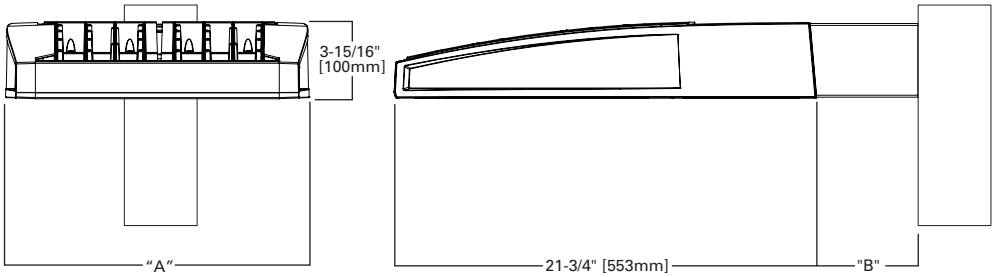
Warranty
Five-year warranty.

GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



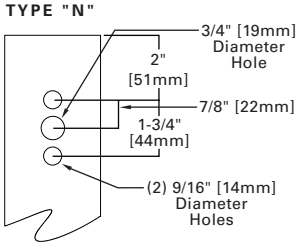
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. **2.** EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

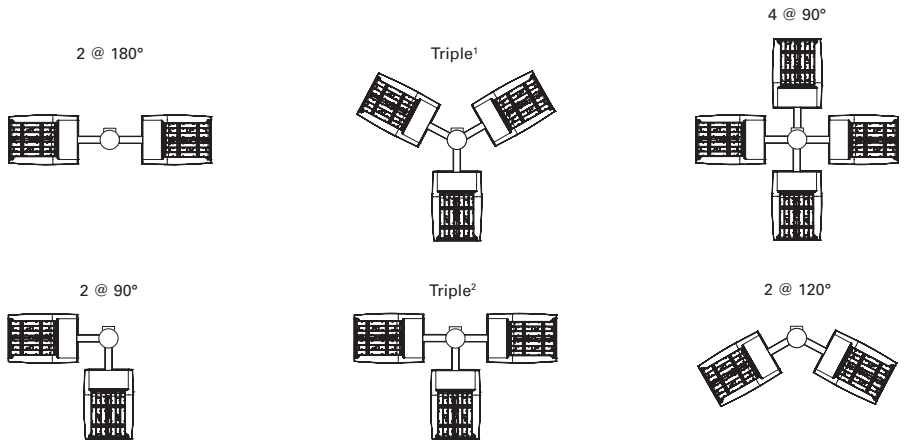
ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

Powering Business Worldwide

*www.designlights.org

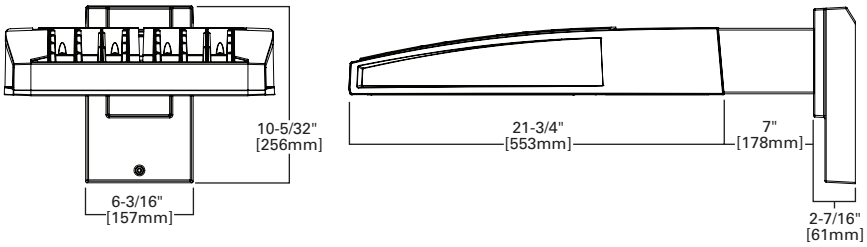
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

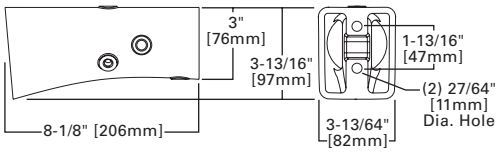


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. **2** Round poles are 3 @ 90°.

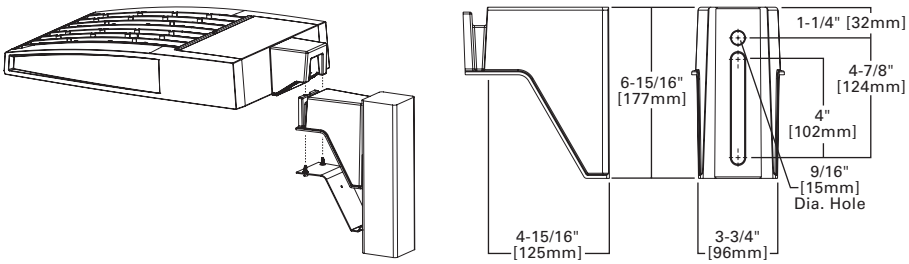
STANDARD WALL MOUNT



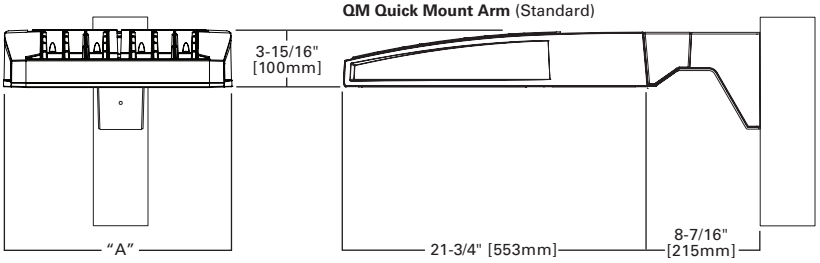
MAST ARM MOUNT



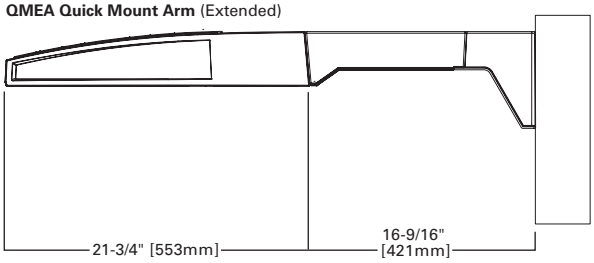
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

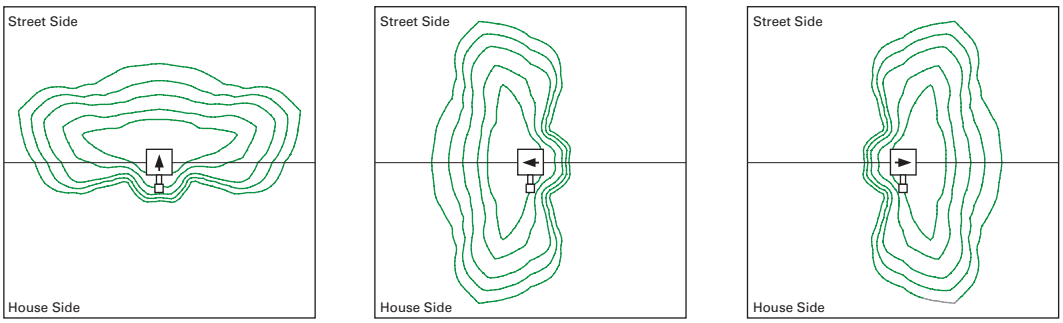


QUICK MOUNT ARM DATA

Number of Light Squares [1,2]	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 [3]	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. **2** QMEA option available with 1-6 light square configurations. **3** QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION

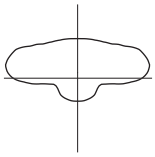


Standard | **Optics Rotated Left @ 90°** [L90] | **Optics Rotated Right @ 90°** [R90]

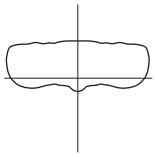
OPTICAL DISTRIBUTIONS

Asymmetric Area Distributions

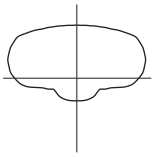
T2 (Type II)



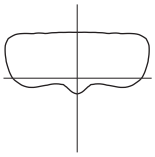
SL2 (Type II with Spill Control)



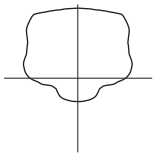
T3 (Type III)



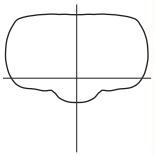
SL3 (Type III with Spill Control)



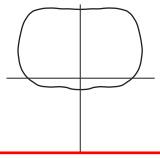
T4FT (Type IV Forward Throw)



T4W (Type IV Wide)

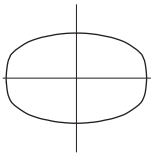


SL4 (Type IV with Spill Control)

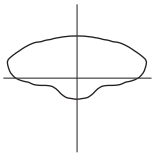


Asymmetric Roadway Distributions

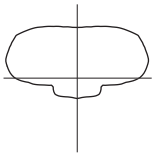
RW (Rectangular Wide Type I)



T2R (Type II Roadway)

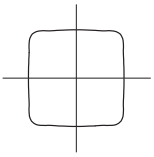


T3R (Type III Roadway)

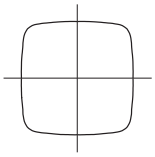


Symmertric Distributions

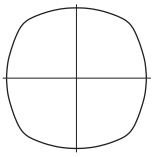
5NQ (Type V Square Narrow)



5MQ (Type V Square Medium)

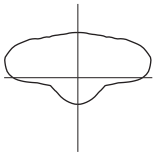


5WQ (Type V Square Wide)

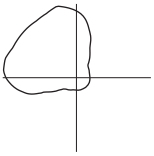


Specialized Distributions

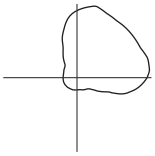
AFL (Automotive Frontline)



SLL (90° Spill Light Eliminator Left)



SLR (90° Spill Light Eliminator Right)



Powering Business Worldwide

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)		0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)		0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family [1, 2]	Light Engine	Number of Light Squares [3]	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	**AE**=1A Drive Current	**01**=1 **02**=2 **03**=3 **04**=4 **05**=5 **06**=6 **07**=7 [4] **08**=8 [4] **09**=9 [5] **10**=10 [5]	**LED**=Solid State Light Emitting Diodes	**E1**=(120-277V) **347**=347V [6] **480**=480V [6, 7]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **5NQ**=Type V Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White	**[Blank]**=Arm for Round or Square Pole **EA**=Extended Arm [8] **MA**=Mast Arm Adapter [9] **WM**=Wall Mount **QM**=Quick Mount Arm (Standard Length) [10] **QMEA**=Quick Mount Arm (Extended Length) [11]

Options (Add as Suffix)

2L=Two Circuits [12, 13]
7030=70 CRI / 3000K [14]
8030=80 CRI / 3000K [15]
7050=70 CRI / 5000K [15]
7060=70 CRI / 6000K [14]
530=Drive Current Factory Set to 530mA [16]
700=Drive Current Factory Set to 700mA [16]
P=Button Type Photocontrol (120, 208, 240 or 277V)
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
R=NEMA Twistlock Photocontrol Receptacle
HA=50°C High Ambient [13, 17]
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [18, 19, 20, 21, 22]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [18, 19, 20, 21, 22]
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [18, 19, 20, 21]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) [18, 19, 20, 21, 25]
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [18, 19, 20, 21, 22, 26]
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [18, 19, 20, 21, 23, 26]
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [18, 19, 20, 21, 24, 26]
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) [18, 19, 20, 21, 25, 26]
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [18, 19, 20, 21, 22]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [18, 19, 20, 21, 23]
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [18, 19, 20, 21, 24]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) [18, 19, 20, 25]
DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [27]
DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [27]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
TH=Tool-less Door Hardware
LCF=Light Square Trim Plate Painted to Match Housing [28]
HSS=Factory Installed House Side Shield [29]
CE=CE Marking [30]

Accessories (Order Separately)

OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [31]
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
GLEON-QM=Quick Mount Arm Kit [10]
GLEON-QM-EA=Quick Mount Extended Length Arm Kit [11]
LS/HSS=Field Installed House Side Shield [29, 32]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Standard 4000K CCT and minimum 70 CRI.
4. Not compatible with extended quick mount arm (QMEA).
5. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
6. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
7. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
8. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
9. Factory installed.
10. Maximum 8 light squares.
11. Maximum 6 light squares.
12. 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
13. Not available with LumaWatt wireless sensors.
14. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
15. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
16. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
17. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
18. Consult factory for more information.
19. Utilizes internal step-down transformer when 347V or 480V is selected.
20. The FSIR-100 accessory is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
21. Not available with HA option.
22. Approximately 22' detection diameter at 8' mounting height.
23. Approximately 40' detection diameter at 20' mounting height.
24. Approximately 60' detection diameter at 40' mounting height.
25. Approximately 100' detection diameter at 40' mounting height.
26. Replace X with number of light squares operating in low output mode.
27. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
28. Not available with house side shield (HSS).
29. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
30. CE is not available with the DIMRF, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
31. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
32. One required for each Light Square.