690 Chesterfield Pkwy W ● Chesterfield MO 63017-0760
Phone: 636-537-4000 ● Fax 636-537-4798 ● www.chesterfield.mo.us

Planning Commission Staff Report

Meeting Date:	October 09, 2023
From:	Isaak Simmers, Planner
Location:	16801 Baxter Road
Description:	**Jewish Community Center Association, 3rd ASDP:** An Amended Site Development Plan, Landscape Plan, Lighting Plan, Amended Architectural Elevations, and Architectural Statement of Design for an 11.4-acre tract of land located at the NE corner of the intersection of Baxter Road and Wild Horse Creek Road.

PROPOSAL SUMMARY

Stock & Associates, on behalf of the Jewish Community Center Association, has submitted an Amended Site Development Plan, Landscape Plan, Lighting Plan, Amended Architectural Elevations, and Architectural Statement of Design for a proposed exterior renovation, which will include a new entrance façade at the existing main entrance, a new entrance to an adult day care, as well as enhanced landscaping and a fenced garden for patrons.

Figure 1: Subject Site

HISTORY OF SUBJECT SITE

1994: JCCA applied for Conditional Use Permit No.16 for a not-for-profit community center and recreational facility with accessory uses
1996: Planning Commission approved SDSP
1997: Planning Commission approved revised parking layout ASDP
1998: Planning Commission approved Outdoor Pool SDSP
2016: Planning Commission approved playground renovation ASDP

ZONING & LAND USE

The subject site is zoned "R2" Residence District under Conditional Use Permit No.16.

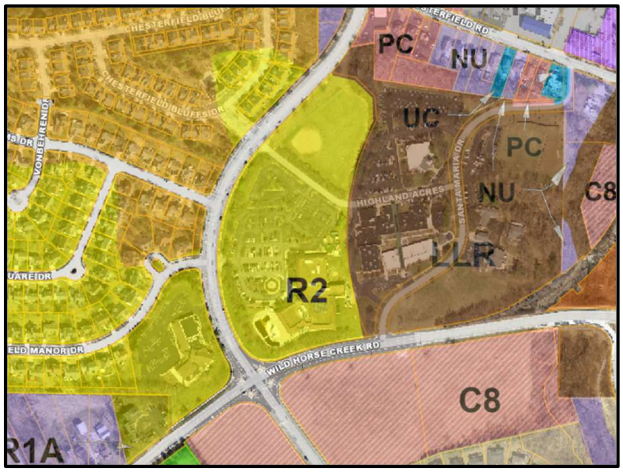


Figure 2: Zoning Map

Figure 3: Land Use Map

Direction	Zoning	Land Use
North	Large Lot Residential "LLR"	Ascension Catholic School & Church
South	Planned Commercial "C8"	undeveloped
East	Large Lot Residential "LLR"	Ascension Catholic School & Church
West	Residence "R2 / R6"	residential & Seventh-day Adventist Church

COMPREHENSIVE PLAN –

The City of Chesterfield Comprehensive Land Use Plan indicates the subject site as being part of the City Center (Historic Chesterfield) land use designation. The City of Chesterfield provides a character description of this area as, "An area with historic buildings including several residential properties on the south side of Old Chesterfield Road. This area of the city would be well suited for the creation of an artisan district where local artist would be invited to locate and where the arts could be celebrated or a farmers market providing for local produce and goods." The development policies for City Center (Historic Chesterfield) are below:

- City Center should serve as the physical and visual focus for the City and include both residential and commercial developments with parks, municipal services, and preservation of historic structures and areas, with cultural, entertainment and pedestrian amenities for its residents;
- Revitalization should lend itself to pedestrian comfort and safety;
- Preservation of historic buildings in which parking lots are relegated to the back of buildings in order to ensure a walkable place;

- Public art should be incorporated into new construction and re-development projects throughout the City Center;
- Buildings to be constructed closer to the roadways to promote the pedestrian experience;
- New architecture will be reviewed for contextual sensitivity of the designated Character Area.

STAFF ANALYSIS

A. Circulation, Parking, & Access

The subject site has two access points off Baxter Road and one additional access to the parking lot via a private street, Highland Acres. The proposed amendment includes the addition of three landscaped islands and a drive aisle, and a new drop-off for the adult day care. The largest of the proposed islands will alter the circulation at the southernmost entrance to the site by forcing a left or right direction when previously left, right, or center. The change is intended to calm traffic in and out of the site. The parking stalls that were eliminated by the proposed drive aisle have been relocated on site and the ADA parking stalls have been moved closer to the front entrances. The other access points to the site remain unchanged, see in Figure 3 and Figure 4.

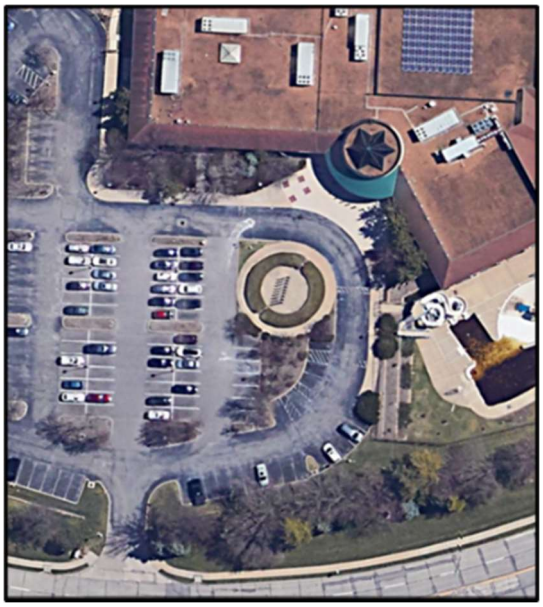


Figure 2: Existing site layout

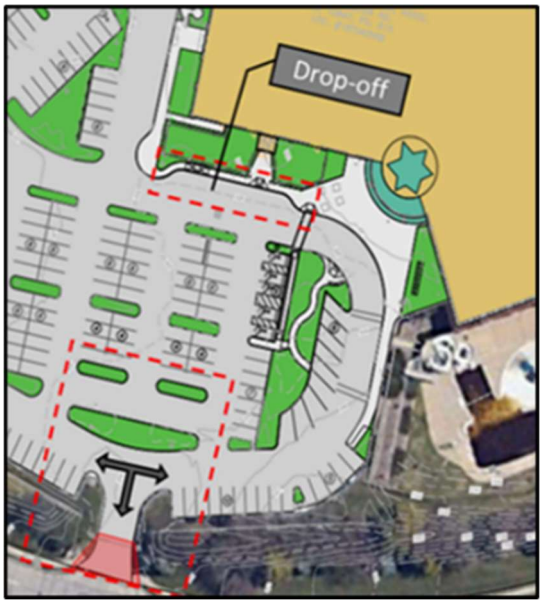


Figure 3: Proposed site layout

B. Landscaping & Screening

Per the Conditional Use Permit requirements, all-natural vegetation will be maintained where is does not interfere with construction and all new vegetation aims to match and enhance the existing landscaping. All existing trees and proposed landscaping have been depicted on the site plan with an indication of those trees to be retained or removed. An existing Menorah art installation will be relocated to a new landscaped garden right of the main entrance and a new landscaped walking path will be installed in its place.

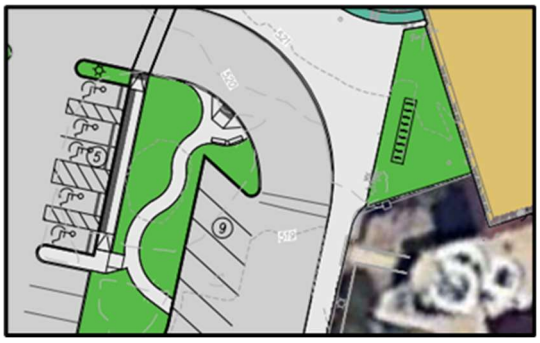


Figure 4: Relocation of Menorah, ADA parking, and proposed sidewalk on island

There are various screening methods already established for the development and there will be no new screening required. The existing black iron fencing will be expanded to both sides of the new side entrance and will house a landscaped garden for the day care. The fencing is six (6) feet in height for patron safety and will be segmented using new seven (7) foot stone pilasters, see Figure 5 and Figure 6.

Figure 5: Existing entrance

Figure 6: Proposed adult day care entrance

C. Lighting

Site Lighting will be upgraded to new LED lighting with a maximum footcandle of 5.3FC provided by proposed Bollard light fixtures to illuminate the island sidewalk. The applicant has proposed the relocation of an existing light pole previously in front of the day care to a nearby landscaped island to illuminate the ADA parking. In addition, two new light poles are proposed for the landscaped island off Baxter Road. Poles are to be sixteen (16) feet tall which is the maximum allowed height per their Conditional Use Permit requirements.

Figure 7: Existing site lighting that will be upgraded to new LED lighting,

Figure 8: Proposed Bollard light fixtures

D. Architectural Elevations

The building is mainly comprised of brick veneer and split-face masonry veneer, with some EIFS on the rear of the building. The material will remain. However, the brick veneer will be painted to coordinate with the proposed metal panels surrounding the front entrance for a more updated look. The existing shingled roof system will be replaced and the height of the building will remain unchanged. Per Conditional Use Permit requirements, a landscaped berm six (6) feet in height runs along Wild Horse Creek Road and Baxter Road essentially screening the building elevations from the road.

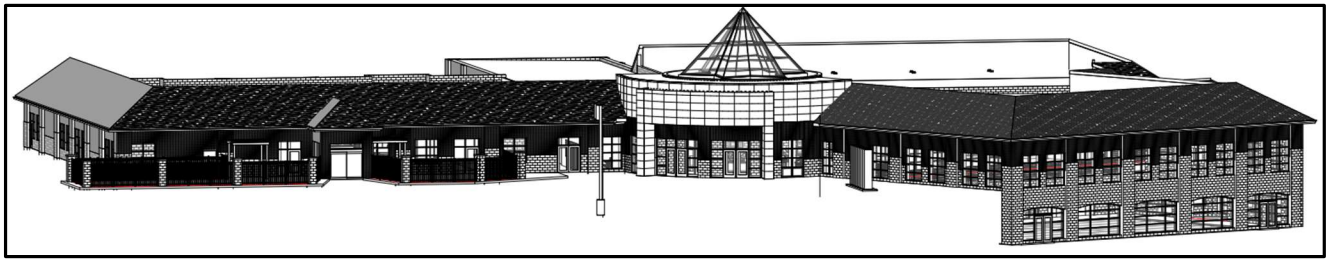


Figure 7: Perspective view of building

ARCHITECTURAL REVIEW BOARD

This project and the modifications were reviewed by Architectural Review Board on September 14, 2023. At that time, the Board made a motion to recommend approval, as presented.

RENDERING

DEPARTMENT INPUT

Staff has reviewed the Amended Site Development Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations and found that it complies with the Unified Development Code "UDC" and meets the requirements to be presented to the Planning Commission for review. Staff recommends action.

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

1) "I move to approve (or deny) the Amended Site Development Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations for the Jewish Community Center Association, as presented.

2) "I move to approve the Amended Site Development Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations for the Jewish Community Center Association with the following conditions…"
(Conditions may be added, eliminated, altered or modified)

Attachments:
1. Applicant Submittal Packet
2. CUP No.16

City of Chesterfield

May 2, 1995

Jewish Community Centers Association
#2 Millstone Campus Drive
St. Louis, MO 63146

RE: Amendment to Conditional Use Permit Number 16

To Whom It May Concern:

The City of Chesterfield Planning Commission hereby amends Conditional Use Permit #16, located in the "R-2" 15,000 square foot Residence District for an 11.4 acre tract of land located at the northeast intersection of Wild Horse Creek Road and the Baxter Road Extension.

This Conditional Use Permit amendment hereby granted shall be subject to the conditions listed in Attachment A, P.Z. 25-94 Jewish Community Centers Association (JCCA).

Respectfully,

CITY OF CHESTERFIELD PLANNING COMMISSION

Barbara McGuinness, Chairman

ATTEST:

Jerry Duepner, Director
Department of Planning

BM/JD/AMH/amh
Attachment

Effective Date: May 2, 1995

cc: Mayor Jack Leonard and Council Members
Michael G. Herring, City Administrator
Martha DeMay, City Clerk
Michael O. Geisel, Director of Public Works/City Engineer

P.Z. 25-94
Jewish Community Centers Association (JCCA)

ATTACHMENT A

1. PERMITTED USES

This Conditional Use Permit (CUP) shall authorize a not-for-profit community center and recreational facility with accessory uses which may include: a gymnasium, indoor and outdoor swimming pools, child care center, meeting rooms, and, one (1) athletic field.

2. BUILDING AREA AND HEIGHT REQUIREMENTS

a. The above-specified uses shall be accommodated within a total of one (1) building which shall not exceed 118,000 square feet in gross floor area, not to exceed two (2) stories in height.

3. SITE DEVELOPMENT PLAN SUBMITTAL REQUIREMENTS

Within eighteen (18) months of the effective date of this Conditional Use Permit and prior to any site preparation or construction, a Site Development Plan shall be submitted to the Planning Commission for its review and approval. Where due cause is shown by the developer, this time interval may be extended through appeal to, and approval by, the Planning Commission. Said Site Development Plan shall include, but not be limited to, the following:

a. A general development plan, including basic arrangement of structures and roadway right-of-way dimensions.

b. The location and size, including height, of all proposed buildings.

c. Building and parking setbacks.

d. Parking calculations.

e. The design, location and size of all parking spaces, light standards, fencing, retaining walls, freestanding signs and trash enclosures.

f. Curb cut locations.

g. Existing and proposed contours at two (2) foot intervals.

h. A landscape plan including, but not limited to, the location, size and general type of all plants and other materials to be used.

i. Preliminary plan for sanitary and stormwater facilities.

4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

Building Setbacks

a. No building or structure, other than boundary walls and/or retaining walls, signs, fences, or detention structures in excess of six (6) feet in height, or parking light standards shall be located within the following setbacks:

(1) Fifty (50) feet of the Wild Horse Creek Road right-of-way.

(2) One Hundred and Fifty (150) feet of the Baxter Extension Road right-of-way.

(3) Thirty (30) feet from all other limits of this C.U.P. development.

Parking Setbacks

b. No parking stall, loading space, internal drive, or roadway excluding points of ingress or egress, shall be located within the following setbacks:

(1) Thirty (30) feet from all limits of this C.U.P. with the exception along Baxter Road, where the thirty (30) foot setback shall be measured from the required Sight Distance Easement.

Access

c. Access to this development from Baxter Road Extension shall be restricted to two (2) permanent commercial entrances located opposite the north and south street approaches, constructed as a part of Chesterfield Farms and one (1) interim commercial entrance located opposite the center street approach to Chesterfield Farms. All entrances shall be constructed as directed by the St. Louis County Department of Highways and Traffic.

d. Provide cross-access easement for future access between the subject site and property to the east, now or formerly the property of Archbishop of St. Louis, as directed by the City of Chesterfield.

e. Left turns into and exiting from the south entrance of this development (nearest Wild Horse Creek Road) are prohibited between the hours of 6:00 a.m. to 9:00 a.m. and 4:00 p.m. and 7:00 p.m. Monday thru Friday, per City of Chesterfield Ordinance and as approved by the St. Louis County Department of Highways and Traffic.

Sidewalks

f. A sidewalk conforming to St. Louis County ADA standards adjacent to Baxter Road Extension as directed by the St. Louis County Department of Highways and Traffic.

Lighting Requirements

g. No on-site illumination source shall be so situated that light is cast directly on adjoining properties or public roadways. Illumination levels shall comply with the provisions of Section 1005.320 Street and Parking Area Lighting of the City of Chesterfield Subdivision Ordinance.

h. Light standards shall not exceed sixteen (16) feet in height. The location of all light standards shall be as approved by the Planning Commission on the Site Development Plan.

i. Lighting of athletic fields is not permitted.

j. No overhead lighting of the outdoor pool.

k. Landscape lighting shall be permitted, as approved by the Planning Department.

Sign Requirements

l. Sign regulations for this development shall be in accordance with "R-2" Residence District, as specified in Section 1003.168 Sign Regulations of the City of Chesterfield Zoning Ordinance.

m. Installation of Landscaping and Ornamental Entrance Monument or Identification Signage construction if proposed, shall be reviewed by the Departments of Highways and Traffic, the Missouri Highway and Transportation Department and the Chesterfield Department of Public Works for sight distance considerations and approved prior to installation or construction.

Landscape Requirements

n. Retention of existing tree masses and individual trees shall be provided for. All existing trees of three (3) inch caliper, or more and proposed landscaping shall be depicted on the site development plan, or separate landscape plan, with an indication of those trees to be retained or removed. Said site development plan or landscape plan shall be submitted to the Planning Commission for review and approval prior to the preparation of the site for development.

o. All new landscaping materials shall meet the following criteria:

(1) Deciduous trees - two and one-half (2 1/2) inch minimum caliper.

(2) Evergreen trees - six (6) feet minimum height.

(3) Shrubs - eighteen (18) inch minimum diameter.

p. Berms along Wild Horse Creek Road and Baxter Road Extension shall be a minimum of six (6) feet in height and shall be landscaped.

q. A minimum thirty (30) foot wide landscaped buffer area shall be required along the perimeter of this C.U.P. development. This landscaped buffer area is required in addition to the Sight Distance Easement as required by the St. Louis County Department of Highways and Traffic along Baxter Road Extension.

Parking Requirements

r. Parking requirements shall be calculated as follows:

Community/Recreation Center; 3 1/3 parking spaces per 1000 square foot gross floor area.

Daycare Center; 2 spaces plus 1 space for every employee on the maximum shift; a paved unobstructed pick-up space with adequate stacking area (as determined by the Department of Planning) shall be provided in addition to standard driveway and parking requirements.

Outdoor Pool; 1 parking space per 100 square feet of water surface area.

Athletic Fields; 20 parking spaces for every diamond or athletic field, or 1 space for every 4 seats, whichever is greater. (One seat is equal to 2 feet of bench length)

All other parking requirements shall be as per Section 1003.165 "Off-Street Parking and Loading Requirements" of the City of Chesterfield Zoning Ordinance.

s. Parking, circulation and other applicable site design features shall comply with the City of Chesterfield Zoning Ordinance.

Miscellaneous Conditions

t. Exterior trash areas, if provided, shall be surrounded by a six (6) foot high sight-proof fence in locations as approved by the Planning Commission on the Site Development Plan.

u. Typical building elevations accompanied by sufficient information to indicate the material type and color to be used for all facades of the buildings shall be submitted to the Planning Commission for review and approval in conjunction with the Site Development Plan.

5. VERIFICATIONS PRIOR TO APPROVAL

Prior to approval of the Site Development Plan, the developer shall:

Stormwater

a. Submit to the Department of Planning a preliminary engineering plan approved by the Department of Public Works, indicating that adequate handling of stormwater drainage is provided.

(1) The developer is required to provide adequate stormwater systems in accordance with City of Chesterfield and MSD standards.

(2) All stormwater shall be discharged at an adequate natural discharge point.

(3) Detention of differential runoff of stormwater is required by providing permanent detention facilities, such as dry reservoirs, bonds or another acceptable alternative. The detention facilities shall be completed and operate per Department of Public Works and MSD design standards.

(4) Construct temporary settlement basins during construction to allow for settlement of sediment prior to stormwater discharge from this site.

Roadway Improvements and Curb Cuts

b. Provide verification of approval by the St. Louis County Department of Highways and Traffic of the location of any proposed curb cut.

c. Utility companies may require compensation for relocation of their utility facilities within public right-of-way. Extensive delays in utility company relocation and adjustments will not constitute a cause to allow occupancy prior to completion of road improvements.

d. All onsite improvements shall be compatible with the Baxter Road Extension road improvements being constructed, as a part of Chesterfield Farms (P.Z. 22, 24, 25 & 26-92 Chesterfield Village, Inc., Jones Custom Homes and Mayer Homes, Inc.), as directed by the City of Chesterfield and the St. Louis County Department of Highways and Traffic.

e. If a signal is requested and/or warranted it shall be the developer's responsibility to finance and install signal as directed by the St. Louis County Department of Highways and Traffic.

Geotechnical Report

f. Provide a geotechnical report, as required by the Department of Public Works, to be prepared by a professional engineer licensed in the State of Missouri. Said report shall verify the adaptability of grading and proposed improvements with soil and geologic conditions. A statement of compliance, signed by the Geotechnical Engineer preparing the report, shall be included on all Site Development Plans.

Traffic Study

g. Provide a traffic study, in conjunction with or prior to Phase Two development, utilizing actual raw data with analysis results in order to verify level of service for each turning movement as requested by the Missouri Highway and Transportation Department.

Sanitary Sewers

h. Provide verification of approval by M.S.D. for adequate handling of sanitary sewage.

6. RECORDING

Prior to the issuance of a building permit, the developer shall record a copy of the approved CUP and legal description for the tract with the St. Louis County Recorder of Deeds.

7. VERIFICATION PRIOR TO BUILDING PERMITS

Subsequent to approval of Site Development Plan, and prior to issuance of any foundation or building permit, the following requirements shall be met:

Notification

a. Prior to the issuance of foundation or building permits, all approvals from the Department of Planning, the Department of Public Works, Missouri Highway and Transportation Department, and the Metropolitan St. Louis Sewer District must be received by the City of Chesterfield.

Landscape Bond or Escrow

b. If required landscaping is in excess of $1,000.00, the developer shall furnish two (2) year bond or escrow sufficient in amount to guarantee the installation of all landscaping required on the Site Development Plan. Said bond or escrow shall be based on costs determined by a plant nursery and approved by the Department of Planning. Prior to release of the landscape escrow or bond, a two (2) year Landscape Maintenance Bond or Escrow, sufficient in amount to guarantee the replacement of landscaping, shall be furnished. Said bond or escrow shall be based on costs determined by a plant nursery and approved by the Department of Planning.

8. VERIFICATION PRIOR TO OCCUPANCY PERMIT

Road improvements and right-of-way dedication shall be completed prior to the issuance of an occupancy permit. The delays due to utility relocation and adjustments will not constitute a cause to allow occupancy prior to completion of road improvements.

9. GENERAL DEVELOPMENT CONDITIONS

a. A grading permit is required prior to any grading on the site. No change in watersheds shall be permitted. Interim stormwater drainage control in the form of siltation control measures is required.

b. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual such as rye grasses or sudan grasses shall be utilized to retard erosion, if adequate stormwater detention and erosion control devices have not been provided.

c. Additional lane and/or widening, pavement thickness, drainage facilities, granular base, traffic control devices, and other improvements may be required to accommodate heavy traffic volumes, unsuitable soil conditions, steep grades, or other conditions not apparent at this time.

d. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.

e. The Zoning Enforcement Officer of the City of Chesterfield, Missouri, shall enforce the conditions of this permit in accord with the Site Development Plan approved by the Planning Commission.

f. Failure to comply with any or all the conditions of this permit shall be adequate cause for revocation of permits by issuing City of Chesterfield Departments or Commissions.

RENOVATION AT THE J FOX CAMPUS - 3RD AMENDED SDP

A TRACT OF LAND BEING PART OF LOT A OF "WILD HORSE CREEK PLACE", PART OF LOT 1 OF THE SUBDIVISION OF JAMES LONG'S ESTATE
AND PART OF SANTA MARIA DRIVE (VACATED) IN U.S. SURVEY 2031, T. 45 N. - R.4 E.
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

BUILDING AND PARKING SETBACKS

STRUCTURE SETBACKS:

- FIFTY (50) FEET FROM WILD HORSE CREEK ROAD RIGHT-OF-WAY
- ONE HUNDRED AND FIFTY (150) FEET FROM BAXTER EXTENSION ROAD RIGHT-OF-WAY
- THIRTY (30) FEET FROM ALL OTHER LIMITS OF THIS C.U.P. DEVELOPMENT

PARKING SETBACKS:

- THIRTY (30) FEET FROM ALL LIMITS OF THIS C.U.P. WITH THE EXCEPTION ALONG BAXTER ROAD WHERE THE THIRTY (30) FOOT SETBACK SHALL BE MEASURED FROM THE REQUIRED SIGHT DISTANCE EASEMENT.

PARKING CALCULATION

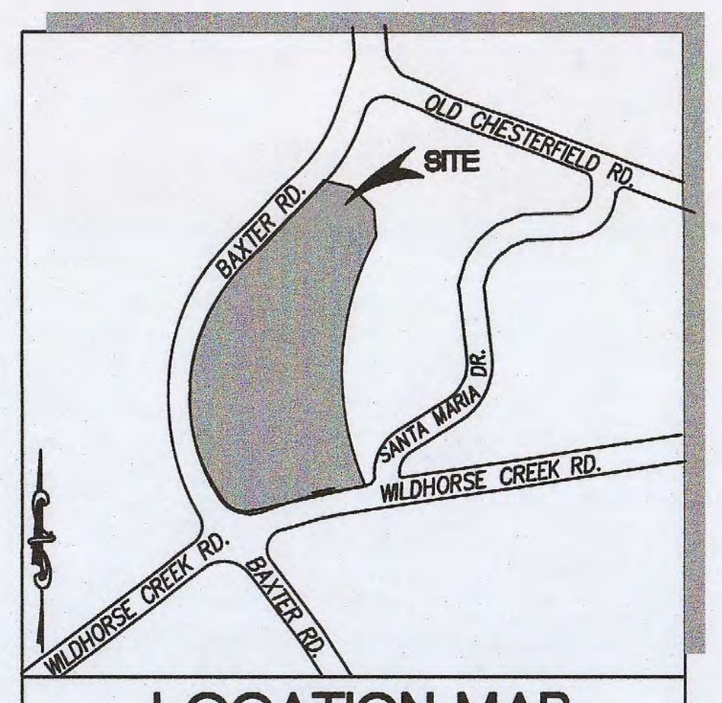
COMMUNITY CENTER
62,850 S.F. (PER 8/22/06 SHT. C1) + 499 S.F. STORAGE ADD'N (BUILT 2008). + 156 S.F. PR. ADD'N = 63,505 S.F. x 3.33 SPA./1,000 S.F. = 211 SPA.

CHILD DEVELOPMENT CENTER
2 SPA. + (1 SPA./EMP.)(16 EMP) PER 8-31-2015 SITE MTG. = 18 SPA.

OUTDOOR POOL
(1 SPA./100 S.F. WATER SURFACE AREA) x 6,900 S.F. (PER 1/07/08 EMAIL FROM WESTPORT POOLS)
= 69 SPA.

ATHLETIC FIELDS
20 SPA./FIELD x 1 FIELD = 20 SPA.

TOTAL REQUIRED = 318 SPA.
TOTAL PROVIDED WITH PROPOSED PARKING LOT CHANGES = 322 SPA., O.K.
(INCLUDES 6 ADA SPOTS)



LOCATION MAP
(NOT TO SCALE)

SHEET INDEX

ASDP-1	OVERALL CAMPUS PLAN
L-1 & L-2	LANDSCAPE PLAN
E101P & E102P	SITE PLAN PHOTOMETRIC

PERTINENT DATA

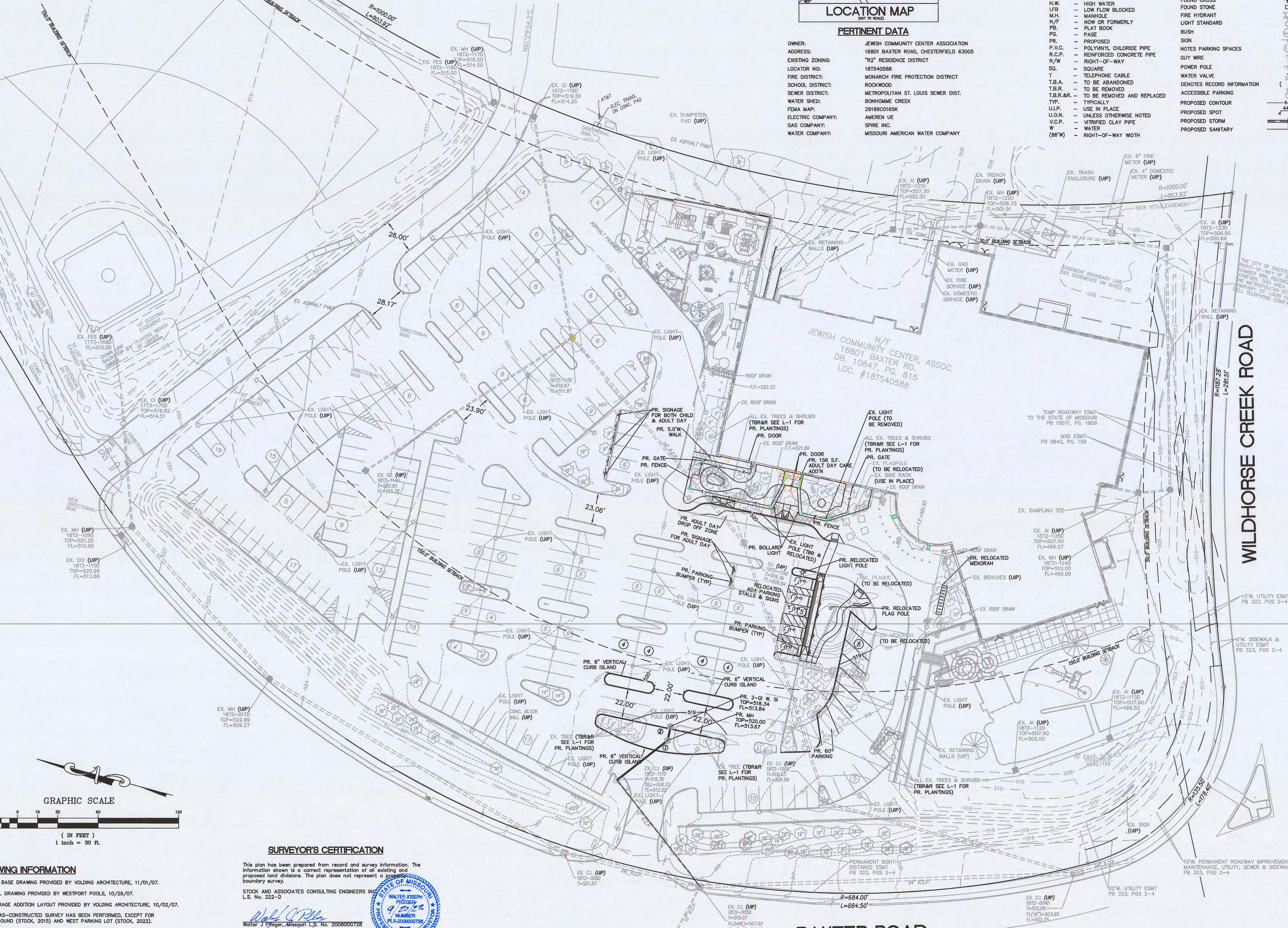
OWNER:	JEWISH COMMUNITY CENTER ASSOCIATION
ADDRESS:	16801 BAXTER ROAD, CHESTERFIELD 63005
EXISTING ZONING:	"R2" RESIDENCE DISTRICT
LOCATOR NO:	18T540588
FIRE DISTRICT:	MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT:	ROCKWOOD
SEWER DISTRICT:	METROPOLITAN ST. LOUIS SEWER DIST.
WATER SHED:	BONHOMME CREEK
FEMA MAP:	29189C0165K
ELECTRIC COMPANY:	AMEREN UE
GAS COMPANY:	SPIRE INC.
WATER COMPANY:	MISSOURI AMERICAN WATER COMPANY

ABBREVIATIONS

ATG	ADJUST TO GRADE
B.C.	BACK OF CURB
C.O.	CLEANOUT
DB.	DEED BOOK
E	ELECTRIC
ELEV.	ELEVATION
EX.	EXISTING
F.C.	FACE OF CURB
FL	FLOWLINE
FT.	FEET
FND.	FOUND
G	GAS
H.W.	HIGH WATER
LFB	LOW FLOW BLOCKED
M.H.	MANHOLE
N/F	NOW OR FORMERLY
PB.	PLAT BOOK
PG.	PAGE
PR.	PROPOSED
P.V.C.	POLYVINYL CHLORIDE PIPE
R.C.P.	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
SQ.	SQUARE
T	TELEPHONE CABLE
T.B.A.	TO BE ABANDONED
T.B.R.	TO BE REMOVED
T.B.R.&R.	TO BE REMOVED AND REPLACED
TYP.	TYPICALLY
U.I.P.	USE IN PLACE
U.O.N.	UNLESS OTHERWISE NOTED
V.C.P.	VITRIFIED CLAY PIPE
W	WATER
(86'W)	RIGHT-OF-WAY WIDTH

LEGEND

EXISTING SANITARY SEWER
EXISTING STORM SEWER
EXISTING TREE
EXISTING BUILDING
EXISTING CONTOUR
SPOT ELEVATION
EXISTING UTILITIES
FOUND 1/2" IRON PIPE
SET IRON PIPE
FOUND CROSS
FOUND STONE
FIRE HYDRANT
LIGHT STANDARD
BUSH
SIGN
NOTES PARKING SPACES
GUY WIRE
POWER POLE
WATER VALVE
DENOTES RECORD INFORMATION
ACCESSIBLE PARKING
PROPOSED CONTOUR
PROPOSED SPOT
PROPOSED STORM
PROPOSED SANITARY



JEWISH COMMUNITY CENTER ASSOCIATION, the owner of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter.

______ (applicable subsection) "R2" – RESIDENCE DISTRICT (present zoning)

Ordinance No. ______, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commision, or voided or vacated by order of ordinance of the City of Chesterfield Council.

JEWISH COMMUNITY CENTER ASSOCIATION

by: ______________________

STATE OF MISSOURI)
) SS.
COUNTY OF ST. LOUIS)

On this ____ day of ____________, 2023, before me personally appeared ____________, who being by me duly sworn, did say he is the ________ of ____________, instrument was signed on behalf of said limited liability company, and that said ____________ acknowledged said instrument to be the free act and deed of said limited liability

IN WITNESS WHEREOF, I have si~~gned and sealed the foregoi~~ng the day and year first above written.

____

____

My commission expires: __________

This Amended Site Development Plan was approved by the City of Chesterfield Planning Commission and duly verified on the ______ day of ____________ 2023, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No, 200, as attested to by the Director of Planning and Development Services and the City Clerk.

By: ______________________
Justin Wyse, AICP
Director of Planning
City of Chesterfield, Missouri

By: ______________________
Vickie McGownd, City Clerk
City of Chesterfield, Missouri

MISSOURI ONE CALL SYSTEM INC. STOP-CALL BEFORE YOU DIG!

STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY NOTE:

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND , THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

PREPARED FOR:

JEWISH COMMUNITY CENTER ASSOCIATION
CARLYN H. WOHL BUILDING
2 MILLSTONE CAMPUS DRIVE
ST. LOUIS MO 63146
(314) 432-5700 (MAIN)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

DRAWING INFORMATION

1. SITE BASE DRAWING PROVIDED BY VOLDING ARCHITECTURE, 11/01/07.
2. POOL DRAWING PROVIDED BY WESTPORT POOLS, 10/29/07.
3. STORAGE ADDITION LAYOUT PROVIDED BY VOLDING ARCHITECTURE, 10/02/07.
4. NO AS-CONSTRUCTED SURVEY HAS BEEN PERFORMED, EXCEPT FOR PLAYGROUND (STOCK, 2015) AND WEST PARKING LOT (STOCK, 2022).
5. PLAYGROUND PLANS BY OTHERS.
6. WESTERNMOST PARKING LOT LAYOUT PROVIDED BY PEAK CONSULTING, 1/8/08.

SURVEYOR'S CERTIFICATION

This plan has been prepared from record and survey information. The information shown is a correct representation of all existing and proposed land divisions. The plan does not represent a property boundary survey.

STOCK AND ASSOCIATES CONSULTING ENGINEERS INC.
L.S. No. 222-D

Walter J Pfleger, Missouri L.S. No. 2008000728

STATE OF MISSOURI — WALTER JOSEPH PFLEGER — 9/20/23 — NUMBER PLS-2008000728 — PROFESSIONAL LAND SURVEYOR

DRAWING FILE: P:\draw4200\2074208\plan-Playground\4208-2 - 3rd ASDSP.dwg LAYOUT: ASDP - 1.0 PLOTTED: Sep 20, 2023 - 9:17am PLOTTED BY: kate.gitto

PREPARED BY:
STOCK & ASSOCIATES Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

AMENDED SITE DEVELOPMENT PLAN FOR:
RENOVATION AT THE J FOX CAMPUS
16801 BAXTER ROAD
CHESTERFIELD, MISSOURI 63005

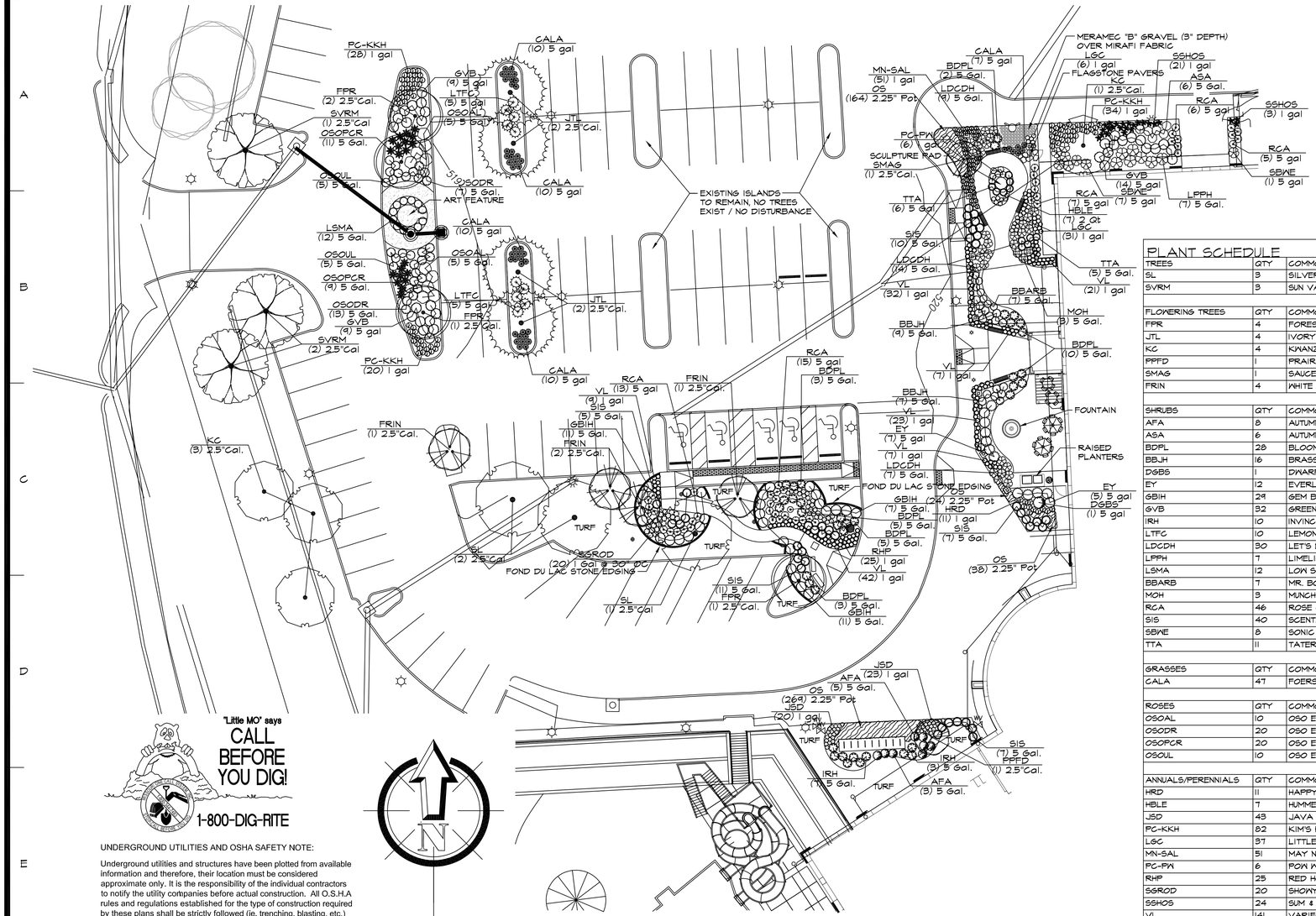
DATE:
STATE OF MISSOURI — GEORGE MICHAEL STOCK — NUMBER PE-25116 — PROFESSIONAL ENGINEER
09/20/23
GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY NUMBER: 000996

REVISIONS:
1. 2023-08-09 CITY COMMENTS
2. 2023-08-16 FIRE COMMENTS
3. 2023-09-20 CITY

DRAWN BY: K.S.G.	CHECKED BY: G.M.S.
DATE: 07/24/2023	JOB NO: 207-4208.2
M.S.D. P #: –	BASE MAP #: 18T
S.L.C. H&T #: –	H&T S.U.P. #: –
M.D.N.R. #: –	

SHEET TITLE: OVERALL CAMPUS PLAN

SHEET NO.: ASDP-1

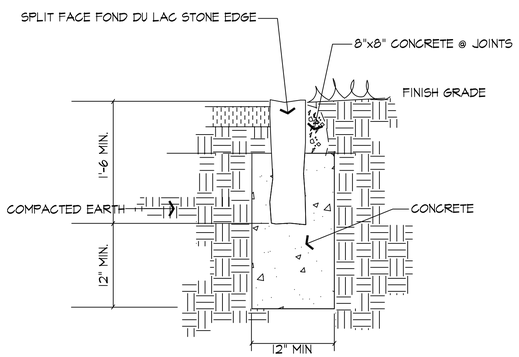


"Little MO" says
CALL BEFORE YOU DIG!
1-800-DIG-RITE

UNDERGROUND UTILITIES AND OSHA SAFETY NOTE:

Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction. All O.S.H.A rules and regulations established for the type of construction required by these plans shall be strictly followed (ie. trenching, blasting, etc.)

0 20 40 60 feet
SCALE: 1" = 20'



FOND DU LAC STONE EDGING DETAIL
N.T.S.

PLANT SCHEDULE

TREES	QTY	COMMON / BOTANICAL NAME	SIZE
SL	3	SILVER LINDEN / TILIA TOMENTOSA	2.5"CAL
SVRM	3	SUN VALLEY RED MAPLE / ACER RUBRUM 'SUN VALLEY'	2.5"CAL
FLOWERING TREES	**QTY**	**COMMON / BOTANICAL NAME**	**SIZE**
FPR	4	FOREST PANSY REDBUD / CERCIS CANADENSIS 'FOREST PANSY' TM	2.5"CAL.
JTL	4	IVORY SILK JAPANESE TREE LILAC / SYRINGA RETICULATA 'IVORY SILK'	2.5"CAL.
KC	4	KWANZAN CHERRY / PRUNUS SERRULATA 'KWANZAN'	2.5"CAL.
PFFD	1	PRAIRIE PINK FLOWERING DOGWOOD / CORNUS FLORIDA 'PRAIRIE PINK'	2.5"CAL.
SMAG	1	SAUCER MAGNOLIA / MAGNOLIA X SOULANGIANA	2.5"CAL.
FRIN	4	WHITE FRINGETREE / CHIONANTHUS VIRGINICUS	2.5"CAL.
SHRUBS	**QTY**	**COMMON / BOTANICAL NAME**	**SIZE**
AFA	8	AUTUMN FIRE AZALEA / AZALEA X 'ROBLEZ' TM	5 GAL.
ASA	6	AUTUMN SUNDANCE AZALEA / AZALEA X 'ROBLEF' TM	5 GAL.
BDPL	28	BLOOMERANG DWARF PURPLE LILAC / SYRINGA X 'SMNJRPU' TM	5 GAL.
BBJH	16	BRASS BUCKLE JAPANESE HOLLY / ILEX CRENATA 'ANNYSI' TM	5 GAL.
DGBS	1	DWARF GLOBE BLUE SPRUCE / PICEA PUNGENS 'GLOBOSA'	5 GAL.
EY	12	EVERLOW YEW / TAXUS X MEDIA 'EVERLOW'	5 GAL.
GBIH	29	GEM BOX INKBERRY HOLLY / ILEX GLABRA 'GEM BOX'	5 GAL.
GVB	32	GREEN VELVET BOXWOOD / BUXUS 'GREEN VELVET'	5 GAL.
IRH	10	INVINCIBELLE RUBY HYDRANGEA / HYDRANGEA ARBORESCENS 'NCHA3' TM	5 GAL.
LTFC	10	LEMON THREAD FALSE CYPRESS / CHAMAECYPARIS PISIFERA 'FILIFERA LEMON THREAD'	5 GAL.
LDCDH	30	LET'S DANCE CAN DO!® HYDRANGEA / HYDRANGEA SERRATA 'SMNH5I'	5 GAL.
LPPH	7	LIMELIGHT PRIME PANICLED HYDRANGEA / HYDRANGEA PANICULATA 'SMNHPPH' TM	5 GAL.
LSMA	12	LOW SCAPE MOUND CHOKEBERRY / ARONIA MELANOCARPA 'LOW SCAPE MOUND'	5 GAL.
BBARB	7	MR. BOWLING BALL ARBORVITAE / THUJA OCCIDENTALIS 'BOBOZAM' TM	5 GAL.
MOH	3	MUNCHKIN OAKLEAF HYDRANGEA / HYDRANGEA QUERCIFOLIA 'MUNCHKIN'	5 GAL.
RCA	46	ROSE CREEK ABELIA / ABELIA X GRANDIFLORA 'ROSE CREEK'	5 GAL.
SIS	40	SCENTLANDIA SWEETSPIRE / ITEA VIRGINICA 'SMNIVDFC' TM	5 GAL.
SBWE	8	SONIC BLOOM WEIGELA / WEIGELA FLORIDA 'SONIC BLOOM'	5 GAL.
TTA	11	TATER TOT® ARBORVITAE / THUJA OCCIDENTALIS 'SMNTOBAB'	5 GAL.
GRASSES	**QTY**	**COMMON / BOTANICAL NAME**	**SIZE**
CALA	47	FOERSTER'S REED GRASS / CALAMAGROSTIS ACUTIFOLIA 'KARL FOERSTER'	5 GAL
ROSES	**QTY**	**COMMON / BOTANICAL NAME**	**SIZE**
OSOAL	10	OSO EASY AT LAST ROSE / ROSA X 'OSO EASY AT LAST'	5 GAL.
OSODR	20	OSO EASY DOUBLE ROSE / ROSA X 'OSO EASY DOUBLE ROSE'	5 GAL.
OSOPCR	20	OSO EASY PINK CUPCAKE ROSE / ROSA X 'OSO EASY PINK CUPCAKE ROSE'	5 GAL.
OSOUL	10	OSO EASY URBAN LEGEND / ROSA X 'OSO EASY PAPRIKA'	5 GAL.
ANNUALS/PERENNIALS	**QTY**	**COMMON / BOTANICAL NAME**	**SIZE**
HRD	11	HAPPY RETURNS DAYLILY / HEMEROCALLIS HYBRID 'HAPPY RETURNS'	1 GAL
HBLE	7	HUMMELO LAMB'S EAR / STACHYS MONIERI 'HUMMELO'	2 QT
JSD	43	JAVA SEA DAYLILY / HEMEROCALLIS X 'JAVA SEA'	1 GAL
PC-KKH	82	KIM'S KNEE HIGH PURPLE CONEFLOWER / ECHINACEA PURPUREA 'KIM'S KNEE HIGH' TM	1 GAL
LGC	37	LITTLE GOLDSTAR CONEFLOWER / RUDBECKIA FULGIDA SULLIVANTII 'LITTLE GOLDSTAR'	1 GAL
MN-SAL	51	MAY NIGHT SALVIA / SALVIA NEMOROSA 'MAY NIGHT'	1 GAL
PC-PW	6	POW WOW WHITE CONEFLOWER / ECHINACEA PURPUREA 'POW WOW WHITE'	1 GAL
RHP	25	RED HOT POKER / KNIPHOFIA UVARIA	1 GAL
SGROD	20	SHONY GOLDENROD / SOLIDAGO SPECIOSA	1 GAL @ 30" OC
SSHOS	24	SUM & SUBSTANCE HOSTA / HOSTA HYBRID 'SUM AND SUBSTANCE'	1 GAL
VL	141	VARIEGATED LIRIOPE / LIRIOPE MUSCARI 'VARIEGATA'	1 GAL
GROUND COVERS	**QTY**	**COMMON / BOTANICAL NAME**	**SIZE**
	445	ORANGE STONECROP / SEDUM KAMTSCHATICUM	2.25" POT

PROGRESS SET ONLY
NOT FOR CONSTRUCTION
HDA PROJECT # 23927
DATE: 9/15/2023
STATUS: OWNER 95%

REVISIONS	BY
9/15/2023	RWM

Landscape TECHNOLOGIES
61 Jacobs Creek Drive
St. Charles, Missouri 63304
(636) 928-1250
Fax: (636) 928-4963

STATE OF MISSOURI
RANDALL W. MARDIS
NUMBER 003
REGISTERED LANDSCAPE ARCHITECT
RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000019
DATE: 9/15/2023

PLANTING PLAN FOR THE PROPOSED REMODEL OF:
JCCA Marilyn Fox Bldg.
16801 BAXTER ROAD CHESTERFIELD, MISSOURI 63005

DRAWN R. MARDIS
CHECKED RWM/GJB
DATE 7/21/2023
SCALE 1"=20'-0"
JOB No. 2023-147
SHEET
L-1
OF TWO SHEETS

LANDSCAPE GUIDELINE SPECS:

GENERAL:

1.) All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.

2.) The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of work to be done.

3.) Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (Call 1-800-DIG-RITE in Missouri).

4.) Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.

5.) It shall be the landscape contractor's responsibility to:
- A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.
- B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
- C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.

6.) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.

7.) Provide single-stem trees unless otherwise noted in plant schedule.

8.) All plant material shall comply with the recommendations and requirements of ANSI Z60.1 "American Standards for Nursery Stock".

9.) It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, during or after installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.

10.) All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months.

11.) Should auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.

12.) All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the landscape contractor to commence landscape installation.

13.) Transplanted material will not be guaranteed by the landscape contractor.

14.) Keep all plant material (except turf) a minimum of 36" clear of fire hydrants.

15.) Landscape contractor shall kill & remove all existing weeds within the project site.

16.) All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.

17.) Landscape contractor shall be in compliance with all federal, state and local laws / regulations relating to insect infestation and/or plant diseases.

PRUNING:

1.) Lightly prune trees at time of planting. Prune only the crossover limbs, intermingled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.

2.) All pruning shall comply with ANSI A300 standards.

MULCH:

1.) All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.

2.) No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Mirafi fabric shall be used beneath all gravel mulch beds.

3.) Edge all beds with spade-cut edge unless otherwise noted.

TOPSOIL:

1.) Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Roto-till topsoil mix to a depth of 6" minimum and grade smooth.

2.) Provide a soil analysis, as requested, made by an independent soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content.

3.) Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than 1"), litter or any other extraneous or toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation. Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.

4.) Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and before application of shredded bark mulch.

5.) Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established.

TURF:

1.) All disturbed lawn areas to be seeded with a mixture of Turf-Type fescue (300# per acre) and bluegrass (18# per acre). Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall be replaced.

2.) The turf contractor shall be responsible for protection of finished grade; restore and repair any erosion or water damage and obtain owners' approval prior to seeding or sod installation.

3.) Landscape contractor shall offer an alternate price for sod in lieu of seed. Sod shall be cut at a uniform thickness of 3/4". No broken pieces, irregular pieces or torn pieces will be accepted.

4.) Any points carrying concentrated water loads and all slopes of 15% or greater shall be sodded.

5.) All sod shall be placed a maximum of 24 hours after harvesting.

6.) Recondition existing lawn areas damaged by Contractor's operations including equipment/material storage and movement of vehicles.

7.) Sod Contractor to ensure sod is placed below sidewalk and all paved area elevations to allow for proper drainage.

WARRANTY:

1.) All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.

2.) Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.

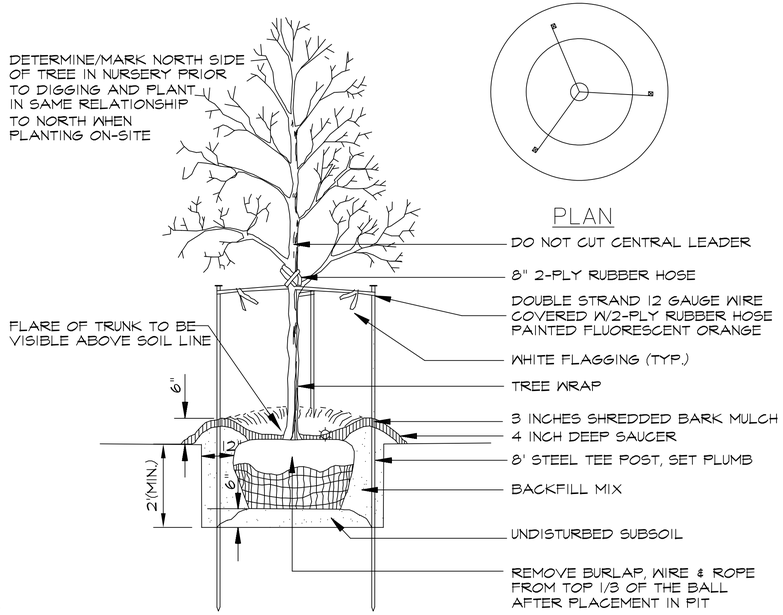
3.) Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with warranty.

4.) Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment period shall commence on the date of acceptance and 100% completion.

5.) A written guarantee shall be provided to the owner per conditions outlined in #1 above.

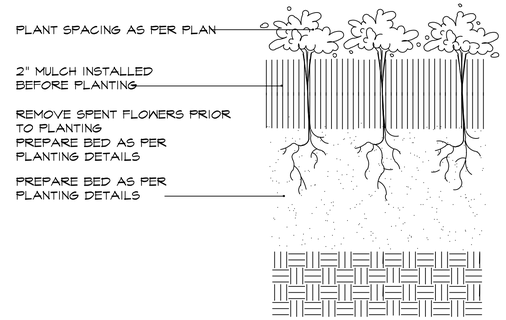
INSURANCE:

1.) The landscape contractor shall submit certificates of insurance for workman's compensation and general liability.



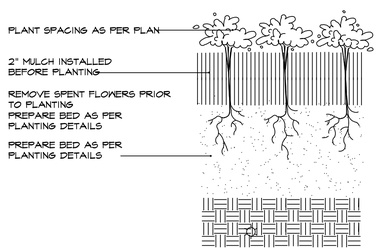
DECIDUOUS TREE PLANTING

N.T.S.



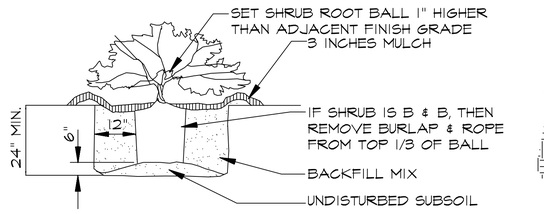
PERENNIAL / ANNUAL PLANTING

N.T.S.



PERENNIAL / GCOVER PLANTING

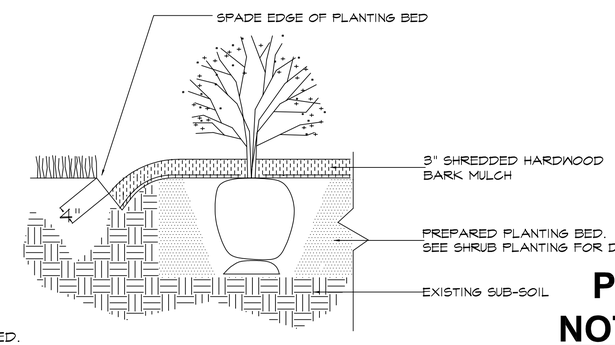
N.T.S.



PRUNE ANY BROKEN BRANCHES AFTER PLANTING. DAMAGED SHRUBS OR BROKEN / CRUMBLING ROOT BALLS WILL BE REJECTED.

SHRUB PLANTING

N.T.S.



SPADE-CUT EDGE DETAIL

N.T.S.

PROGRESS SET ONLY
NOT FOR CONSTRUCTION

HDA PROJECT # 23927
DATE: 9/15/2023
STATUS: OWNER 95%

REVISIONS	BY
9/15/2023	RWM

Landscape Technologies
61 Jacobs Creek Drive
St. Charles, Missouri 63304
(636) 928-1250
Fax: (636) 928-4963

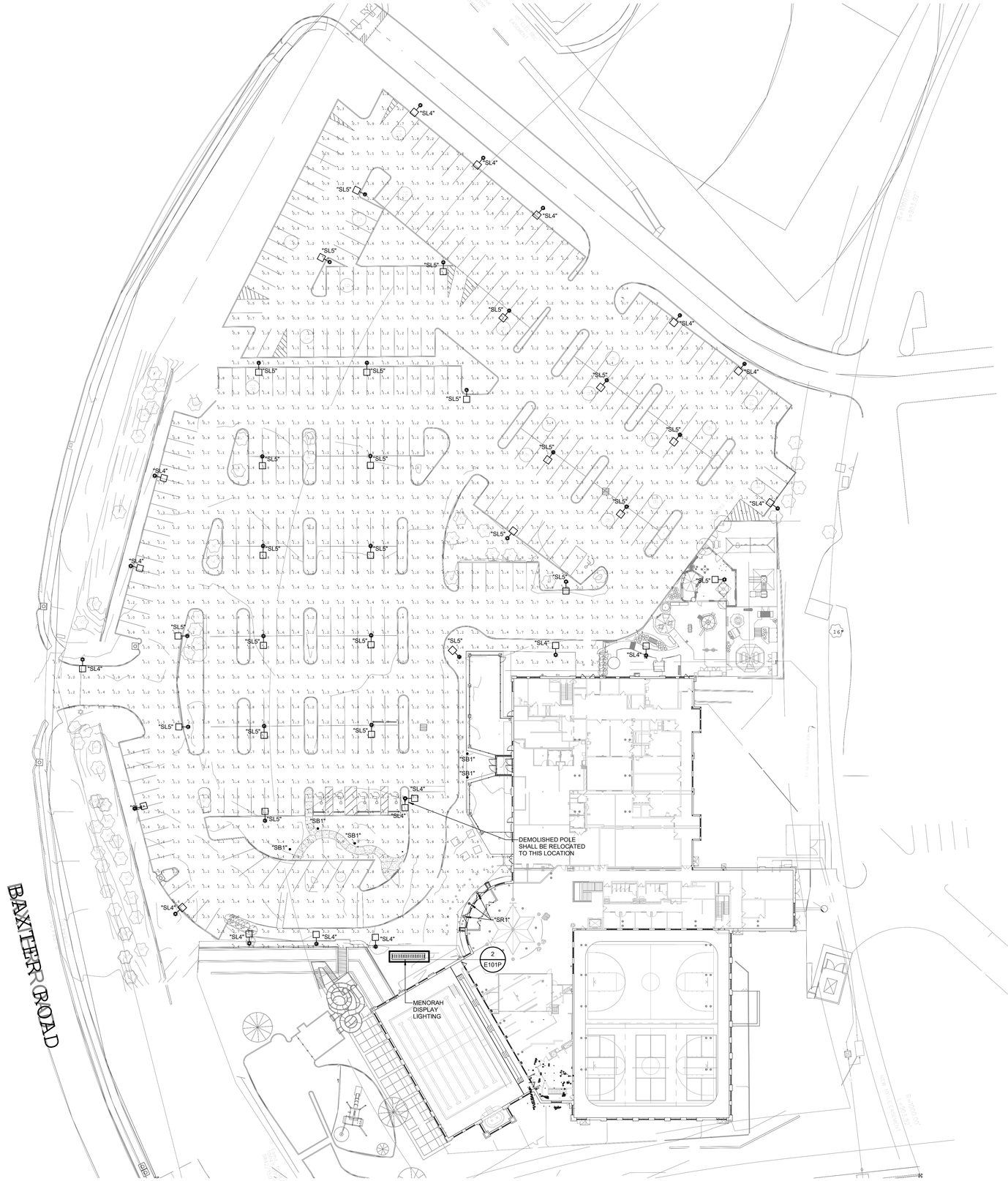
STATE OF MISSOURI RANDALL W. MARDIS NUMBER 003 REGISTERED LANDSCAPE ARCHITECT

RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000019
DATE: 9/15/2023

PLANTING PLAN FOR THE PROPOSED REMODEL OF:
JCCA Marilyn Fox Bldg.
16801 BAXTER ROAD CHESTERFIELD, MISSOURI 63005

DRAWN	R. MARDIS
CHECKED	RWM/GJB
DATE	7/21/2023
SCALE	1"=20'-0"
JOB No.	2023-147
SHEET	L-2

OF TWO SHEETS



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SITE PLAN - ELECTRICAL

SCALE: 1" = 30'-0"

LUMINAIRE SCHEDULE

TAG	MANUFACTURER	DESCRIPTION	INSTALLATION METHOD	LUMENS	VOLTAGE	WATTS	KELVIN	FEATURES/OPTIONS
SL4	MCGRAW EDISON	GLEON-SA1B-740-U-SL4-HSS	POLE	6000	UNV	44	4000K	
SL5	MCGRAW EDISON	GLEON-SA1B-740-U-SWQ	POLE	6000	UNV	44	4000K	
SB1	SISTEMALUX	S2141N	GRADE	1000	UNV	15	4000K	
SR1	HALO	HC615D010REM14 HM60525840 61MDCIEM	C/R	1500	UNV	14	4000K	
SR2	LUMENPULSE	LOI RO 120/277 24 40K 30X30 TS0 INTL NO	GRADE	2400	UNV	17	4000K	

ABBREVIATIONS:

UNV	UNIVERSAL 120-277V
C/P	CEILING PENDANT
C/R	CEILING RECESSED
C/S	CEILING SURFACE
W/S	WALL SURFACE

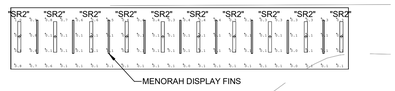
FOOTCANDLE STATISTICS:

PARKING AND DRIVE AREA:
AVERAGE: 1.43 FC
MAX: 5.3 FC
MIN: 0.2 FC (OCCURS AT ENTRY)
AVG/MIN: 7.15 FC

MENORAH DISPLAY LIGHTING:
AVERAGE: 0.24 FC
MAX: 1.0 FC
MIN: 0.0 FC

EXISTING POLE HEIGHT INCLUDING BASE: 16'-0", (13'-6" POLE WITH BASE HEIGHTS 2'-6").

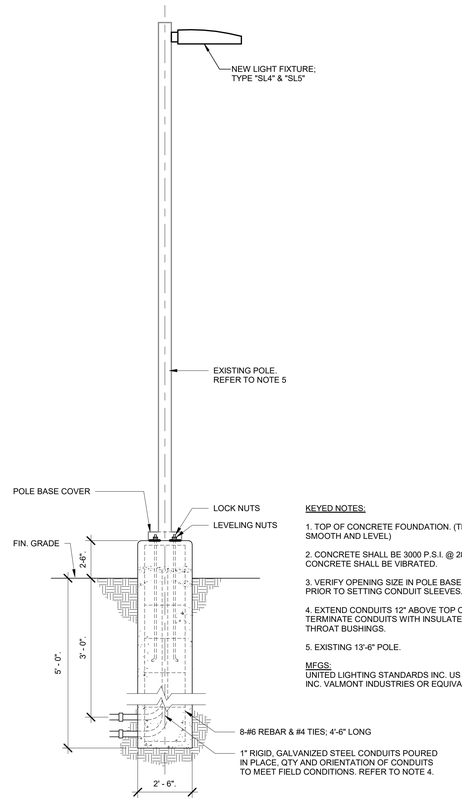
SCOPE OF WORK: REPLACE EXISTING METAL HALIDE FIXTURE HEADS WITH NEW LED HEAD. ADD TWO POLES AT NEW LANDSCAPE ISLAND.



2 E101P

MENORAH DISPLAY LIGHTING

SCALE: 1/4" = 1'-0"



KEYED NOTES:

1. TOP OF CONCRETE FOUNDATION. (TROWELL SMOOTH AND LEVEL)
2. CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS. CONCRETE SHALL BE VIBRATED.
3. VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
4. EXTEND CONDUITS 12" ABOVE TOP OF FORM. TERMINATE CONDUITS WITH INSULATED THROAT BUSHINGS.
5. EXISTING 13'-6" POLE.

MFGS:
UNITED LIGHTING STANDARDS INC. US POLE CO. INC. VALMONT INDUSTRIES OR EQUIVALENT

1 E101P

LIGHTING POLE FOUNDATION DETAIL

NO SCALE

HDA
ottoolie
4565 McRee Avenue, Suite 100
St. Louis, MO 63110
(314) 726-2500
ENGENUITY
BUILDING VALUE BY DESIGN

J WEST FOX BUILDING - RENOVATION

16801 BAXTER ROAD
CHESTERFIELD, MO 63005

the

#	DATE	DESCRIPTION

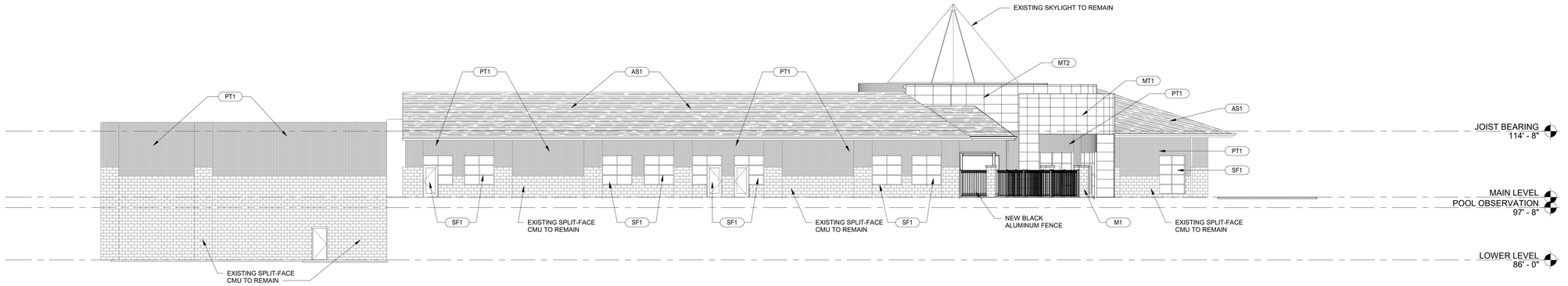
PROFESSIONAL RECORD

STATE OF MISSOURI
MARCUS ECKSTEIN
NUMBER PE-2010017810
PROFESSIONAL ENGINEER

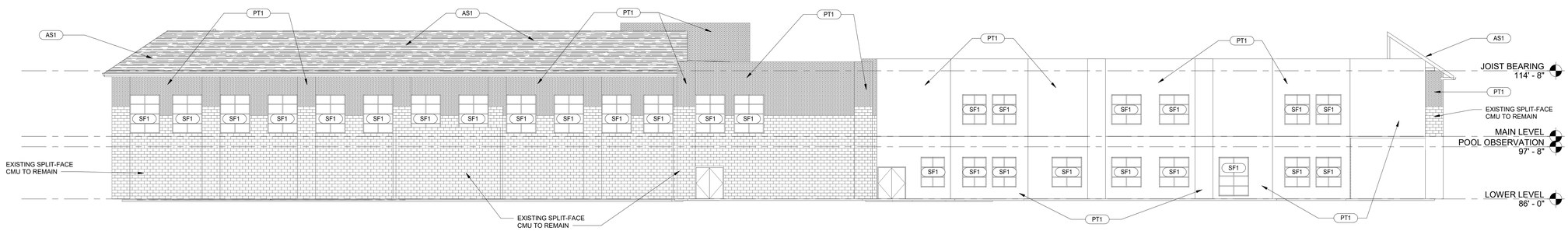
Project Number: **23927**
Date: **xx/xx/23**
Status: **OWNER 50% 07/28/23**

SITE PLAN PHOTOMETRIC

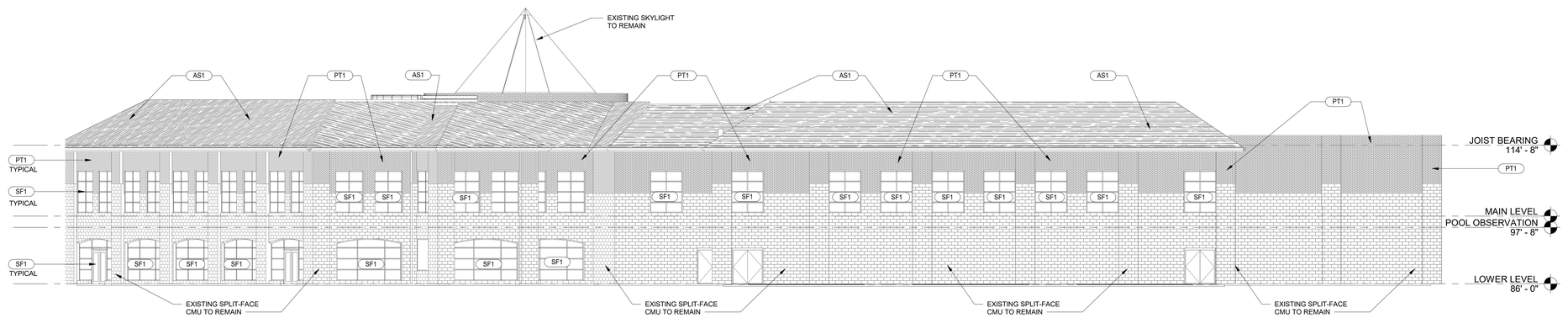
E101P



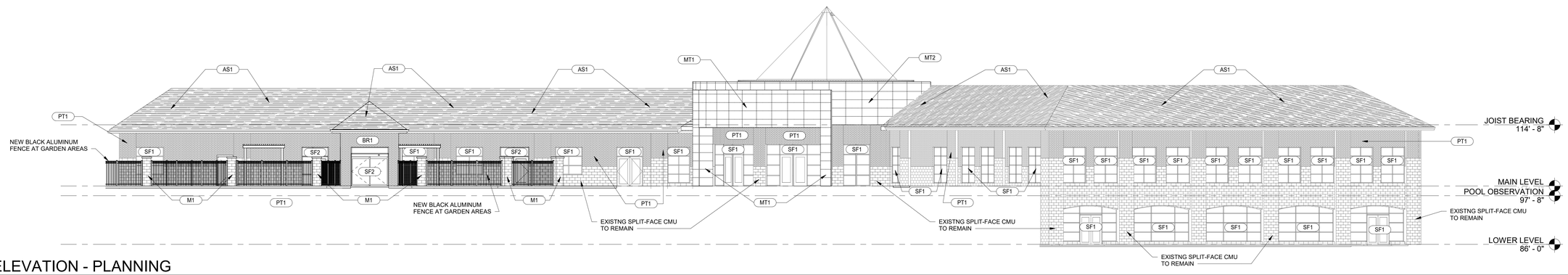
1 NORTH ELEVATION - PLANNING
3/32" = 1'-0"



2 EAST ELEVATION - PLANNING
3/32" = 1'-0"



3 SOUTH ELEVATION - PLANNING
3/32" = 1'-0"



4 WEST ELEVATION - PLANNING
3/32" = 1'-0"

EXTERIOR MATERIAL LEGEND

AS1 ASPHALT SHINGLES
MFR: CERTAINTEED
PRODUCT: LANDMARK PRO DESIGNER SHINGLES
COLOR: MAX DEF MOIRE BLACK

BR1 FACE BRICK
MFR: MATCH EXISTING SIZE AND SHAPE
PRODUCT: GREY

M1 SPLIT-FACE MASONRY UNITS
MFR: MATCH EXISTING COLOR, SHAPE AND SIZE
PRODUCT:

MT1 METAL PANEL
MFR: PAC-CLAD
PRODUCT: MODULAR AL (24" X 36" PANELS)
COLOR: MATTE BLACK

MT2 METAL PANEL
MFR: PAC-CLAD
PRODUCT: MODULAR AL (24" X36" PANELS)
COLOR: WEATHERED ZINC

MT3 PREFINISHED METAL COPING
MFR: PAC-CLAD
COLOR: BLACK

MT4 PREFINISHED METAL GUTTER AND DOWNSPOUT
MFR: PAC-CLAD
COLOR: BLACK

GL1 NEW STOREFRONT OPENINGS
MFR: GUARDIAN
PRODUCT: 31" INSULATED GLASS LOW-E

PT1 EXTERIOR PAINT - BRICK
MFR: SHERWIN WILLIAMS
PRODUCT: SW 7074 SOFTWARE

PT2 EXTERIOR PAINT - H.M. DOORS AND FRAMES
MFR: SHERWIN WILLIAMS
PRODUCT: SW 6258 TRICORN BLACK

PT3 EXTERIOR PAINT - EXISTING STOREFRONTS
MFR: SHERWIN WILLIAMS
PRODUCT: SW 6258 TRICORN BLACK

SF1 EXISTING STOREFRONT WINDOW SYSTEMS
MFR: EXISTING TO REMAIN
COLOR: PAINT ALL MULLIONS - BLACK (INSIDE AND OUTSIDE)

SF2 NEW STOREFRONT WINDOW SYSTEMS
MFR: OLD CASTLE BUILDING ENEVELOPE
PRODUCT: 3000 XT THERMAL BROKEN STOREFRONT SYSTEM (2" X 4 1/2")
COLOR: BLACK

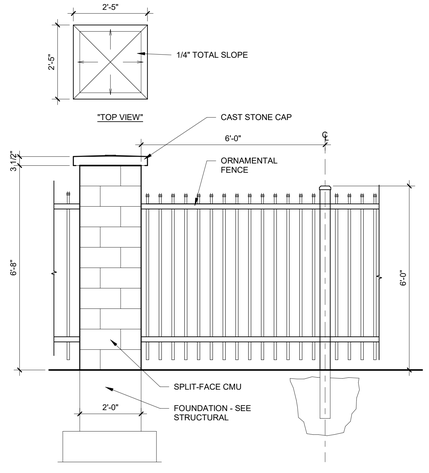
EXTERIOR BUILDING SCOPE OF WORK:

A. Remove existing standing seam metal roof system over existing entrance.
B. Provide new metal panel façade and support metal stud/steel structure in place of standing seam metal roof at existing entrance. Provide TPO roof system at new structure component.
C. Provide new Entrance façade metal panel system over metal stud and steel structure and associated footings and foundations extend out from building at existing entrance.
D. Provide new entrance vestibule at new Adult Day Care entry. Provide new brick veneer over metal stud structure, with new exterior storefront window systems (black), automatic sliding door (inside and outside) black, new concrete pad/foundations, new roof trusses and asphalt shingles tying back into existing roof system, new soffits, and gutters to match existing.
E. Provide new exterior storefront system with doors (black) from Adult Day Care to garden areas. Remove masonry wall (partial below existing windows removed)
F. New hollow metal door and frame into new Kitchen area in existing exterior wall.
G. All existing "Green" gutters and downspouts to be painted black.
H. All existing "green" storefront windows systems around entire building to be painted "black". Inside and outside metal surfaces to be painted.
J. All existing asphalt shingles to be removed and replaced with new 3tab Architectural style 30-year asphalt shingles around entire perimeter of building, color TBD.
K. All existing brick veneer to be painted around entire building, only the brick.
L. All existing split-face masonry veneer to remain as is, do not paint.
M. Existing built-up roof system on entire building to be removed. Provide new 60 mil TPO roof system with new R-30 roof insulation.

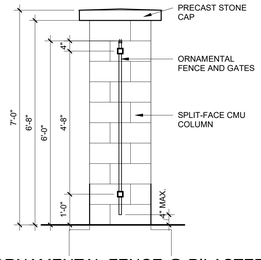
J WEST FOX BUILDING - RENOVATION

16801 BAXTER ROAD
CHESTERFIELD, MO 63005

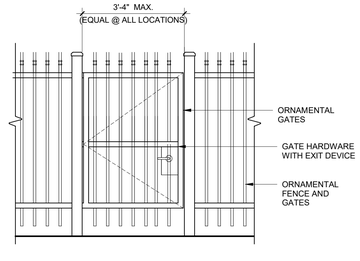
07/24/23



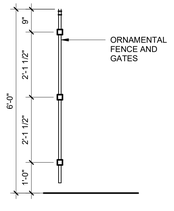
B4 ORNAMENTAL FENCE & PILASTER ELEVATION
1/2" = 1'-0"



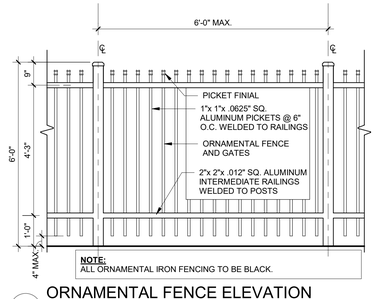
A3 ORNAMENTAL FENCE @ PILASTER SECTION
1/2" = 1'-0"



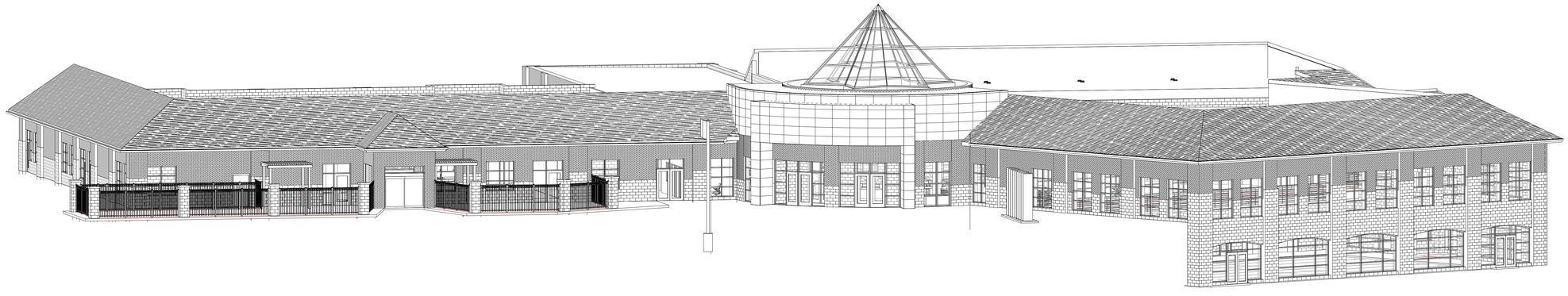
D1 ACCESS GATE ELEVATION
1/2" = 1'-0"



C1 ORNAMENTAL FENCE SECTION
1/2" = 1'-0"



B1 ORNAMENTAL FENCE ELEVATION
1/2" = 1'-0"



PERSPECTIVE VIEW OF BUILDING

J WEST FOX BUILDING - RENOVATION

16801 BAXTER ROAD
CHESTERFIELD, MO 63005

07/24/23

Collection of outoor bollards for commercial and institutional applications. Available in 2 mounting heights and elegantly proportioned for various applications, scales and designs. Robust aluminum alloy construction with stainless steel fasteners, factory sealed diffuser and lens, with corrosion resistant finish. The wide uniform distribution allows greater luminaire spacing while maintaining good visual comfort and eliminate light pollution.

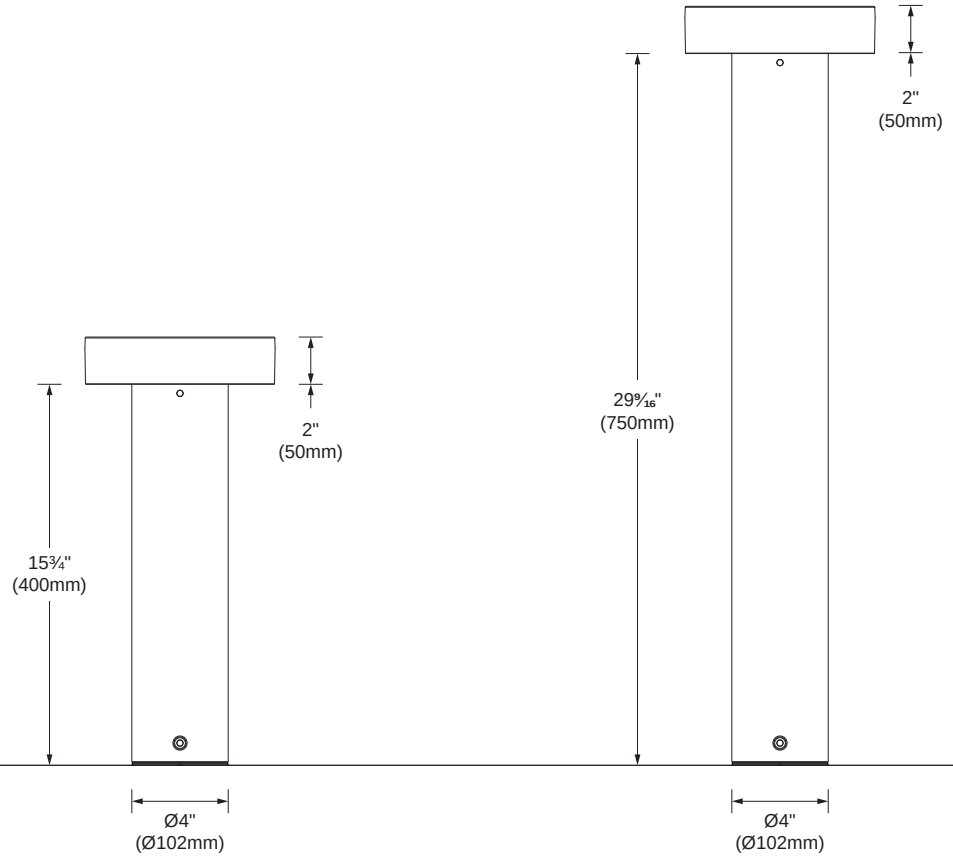
Luminaire characteristic:	**Power input:** 14.1W (system wattage) **Lumens:** 1084lm (for 3000K, 90CRI) **Luminaire efficacy:** 76lm/W
Source:	White LED (LM-80 tested), 2700K: 90CRI, 3000K: 90CRI, 4000K: 90CRI.
Lumen maintenance:	70% of initial lumens at 50 000 hours (L70)(LM-79)
Optic:	360° symmetrical diffuse light with zero uplight emission.
Material:	Body, head and base: Die cast aluminum. Diffuser: Micro etched prismatic glass.
Mounting:	Install with flange accessory or fasten to ground.
Electrical:	Integral high efficiency dimmable LED driver, rated at 50 000 hours, 120V-277V.
Dimming:	0-10V (120-277V), down to ±10%.
Finish:	Anthracite gray. Painted finish follows a double powder paint in 3 step process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions.
Weight:	S2140: 11.9lbs (5.4kg) S2141: 14.8lbs (6.7kg)
Warranty:	5 year limited warranty.
Ratings:	IP65, IK06
Certification:	cULus listed for wet location.

SISTEMALUX
9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7, P.: 514.523.1339 F.: 514.525.6107 www.sistemalux.com

DIMENSIONS

S2140 Bollard 450mm	**S2141** Bollard 800mm

TOP VIEW



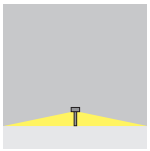
SIDE VIEW

SISTEMALUX
9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7, P.: 514.523.1339 F.: 514.525.6107 www.sistemalux.com

PHOTOMETRIC DATA

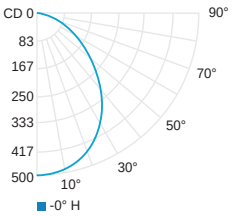
Photometric performance is measured in accordance with IESNA LM-79.
Visit sistemalux.com for complete photometric data.

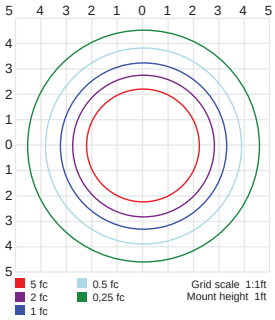
S2140



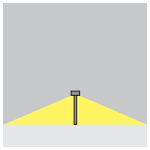
CCT (K)	CRI	LOAD (W)	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	B.U.G.	MODEL
3000K	90	14.1	1 084	76	498	B1 - U0 - G0	S2140W

3000K, 90CRI



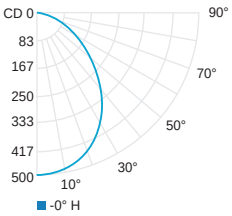


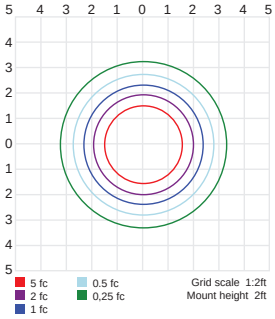
S2141



CCT (K)	CRI	LOAD (W)	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	B.U.G.	MODEL
3000K	90	14.1	1 084	76	498	B1 - U0 - G0	S2141W

3000K, 90CRI

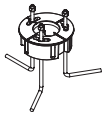




CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	90CRI
Multiplier	**0.99**	**1**	**1.11**

MOUNTING ACCESSORIES
(TO BE ORDERED SEPARATELY)

☐ **S2149 -** Ø4" (Ø102mm) flange with stainless steel rods for concrete installation



CONNECTION ACCESSORY
(TO BE ORDERED SEPARATELY)

☐ **9011 -** IP68 field connector for 11/32"- 13/32" (8.5 - 10.5mm) cable, 5x 14-18AWG conductors

ORDERING INFO

- UNV - 24 - D10
FIXTURE

RESET INFO

MODEL

☐ **S2140 -** Bollard 450mm ☐ **S2141 -** Bollard 800mm

LED

☐ **H -** 2700K, 90CRI ☐ **W -** 3000K, 90CRI ☐ **N -** 4000K, 90CRI

SURGE

☐ **SU -** Surge protection[1]

VOLTAGE

■ **UNV -** 120-277V

FINISH

■ **24 -** Anthracite gray

DIMMING

■ **D10 -** 0-10V (down to 10%)

[1] Optional 10kV class II surge protection.

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Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Product Features

LumenSafe Technology

Light ARchitect™

BAA

Product Certifications

ISO Systems Certified

DLC Listed [1]

DLC Listed Premium [1]

3G VIB

IP66

UL Certified

IDA Dark Sky Approved [2]

5 Year Limited Warranty

Interactive Menu

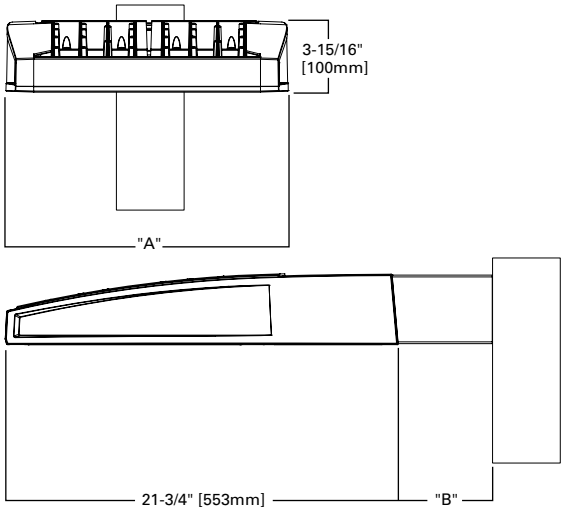
Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt
- Options to meet Buy American and other domestic preference requirements

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length [1]	"B" QM Arm Length	"B" QML Length	"B" QMEA Length
1-4	15-1/2"	7"	10"	10-5/8"	--	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	--	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	10-5/16"	--
9-10	33-3/4"	7"	16"	--	10-5/16"	--

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: **GLEON-SA4C-740-U-T4FT-GM**

Product Family [1, 2]	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON=Galleon **BAA-GLEON**=Galleon, Buy American Act Compliant [35] **TAA-GLEON**=Galleon, Trade Agreements Act Compliant [35]	**SA1**=1 Square **SA2**=2 Squares **SA3**=3 Squares **SA4**=4 Squares **SA5**=5 Squares [4] **SA6**=6 Squares **SA7**=7 Squares [5] **SA8**=8 Squares [5] **SA9**=9 Squares [6] **SA0**=10 Squares [6]	**A**=600mA **B**=800mA **C**=1000mA **D**=1200mA [16]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **AMB**=Amber, 590nm [14, 16]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [7, 8] **9**=347V [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	**[Blank]**=Arm for Round or Square Pole **EA**=Extended Arm [9] **MA**=Mast Arm Adapter [10] **WM**=Wall Mount **QM**=Quick Mount Arm (Standard Length) [11] **QMEA**=Quick Mount Arm (Extended Length) [12] **QML**=Quick Mount Arm (Standard Length, Large) [37]	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **RALXX**=Custom Color

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)[36]
DIM=External 0-10V Dimming Leads [19, 20] **F**=Single Fuse (120, 277 or 347V Specify Voltage) **FF**=Double Fuse (208, 240 or 480V Specify Voltage) **20K**=Series 20kV UL 1449 Surge Protective Device **2L**=Two Circuits [17, 18] **HA**=50°C High Ambient **HSS**=Installed House Side Shield [28] **GRSBK**=Glare Reducing Shield, Black [23] **GRSWH**=Glare Reducing Shield, White [23] **LCF**=Light Square Trim Painted to Match Housing [27] **MT**=Installed Mesh Top **TH**=Tool-less Door Hardware **CC**=Coastal Construction finish [3] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **CE**=CE Marking [29] **AHD145**=After Hours Dim, 5 Hours [22] **AHD245**=After Hours Dim, 6 Hours [22] **AHD255**=After Hours Dim, 7 Hours [22] **AHD355**=After Hours Dim, 8 Hours [22] **DALI**=DALI Drivers	**BPC**=Button Type Photocontrol **PR**=NEMA 3-PIN Photocontrol Receptacle **PR7**=NEMA 7-PIN Photocontrol Receptacle [21] **SPB2=**Dimming Occupancy Sensor with Bluetooth Interface, 8′ - 20′ Mounting [34] **SPB4=**Dimming Occupancy Sensor with Bluetooth Interface, 21′ - 40′ Mounting [34] **MS-L20**=Motion Sensor for ON/OFF Operation, 9′ - 20′ Mounting Height [24] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21′ - 40′ Mounting Height [24] **MS/X-L20**=Bi-Level Motion Sensor, 9′ - 20′ Mounting Height [24, 25] **MS/X-L40W**=Bi-Level Motion Sensor, 21′ - 40′ Mounting Height [24, 25] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9′ - 20′ Mounting Height [24] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21′ - 40′ Mounting Height [24] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle **ZD**=SR Driver-enabled 4-PIN Twistlock Receptacle **ZW-WOBXX**=WaveLinx Lite, Dimming Motion and Daylight, Bluetooth Programmable, 7′ - 15′ Mounting [13,32,33] **ZW-WOFXX**=WaveLinx Lite, Dimming Motion and Daylight, Bluetooth Programmable, 15′ - 40′ Mounting [13,32,33] **ZD-WOBXX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7′ - 15′ Mounting [13,32] **ZD-WOFXX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15′ - 40′ Mounting [13,32] **ZW-SWPD4XX**=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 7′ - 15′ Mounting [13,32,33] **ZW-SWPD5XX**=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 15′ - 40′ Mounting [13,32,33] **ZD-SWPD4XX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7′ - 15′ Mounting [13,32,33] **ZD-SWPD5XX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15′ - 40′ Mounting [13,32,33] **LWR-LW**=Enlighted Sensor, 8′–16′ Mounting Height [26] **LWR-LN**=Enlighted Sensor, 16′–40′ Mounting Height [26] **DIM10-L08**=Synapse Occupancy Sensor (<8′ Mounting) [19] **DIM10-L20**=Synapse Occupancy Sensor (9′-20′ Mounting) [19] **DIM10-L40**=Synapse Occupancy Sensor (21′-40′ Mounting) [19]	**OA/RA1013**=Photocontrol Shorting Cap **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 [24] **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 [11] **GLEON-QMEA**=Quick Mount Extended Arm Kit [12] **LS/HSS**=Field Installed House Side Shield [28, 30] **LS/GRSBK-2PK** =Glare Reducing Shield, Black [23, 30] **LS/GRSWH-2PK** =Glare Reducing Shield, White [23, 30] **LS/PFS**=Perimeter Shield, Black [15] **WOLC-7P-10A**=WaveLinx Outdoor Control Module [19, 31] **WOB-XX**= WaveLinx Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 7′ - 15′ Mounting [13,32] **WOF-XX**= WaveLinx Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 15′ - 40′ Mounting [13,32] **SWPD4-XX**= WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 7′ - 15′ Mounting [13,19,32,33] **SWPD5-XX**= WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 15′ - 40′ Mounting [13,19,32,33]

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. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
4. Not compatible with MS/4-LXX or MS/1-LXX sensors.
5. Not compatible with extended quick mount arm (QMEA).
6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
7. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
8. 480V must utilize Wye system only. 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.)
9. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
10. Factory installed.
11. Maximum 8 light squares.
12. Maximum 6 light squares.
13. Requires ZW or ZD receptacle.
14. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
15. Set of 4 pcs. One set required per Light Square.
16. Not available with HA option.
17. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
18. Not available with Enlighted wireless sensors.
19. Cannot be used with other control options.
20. Low voltage control lead brought out 18" outside fixture.
21. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell.
22. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
23. Not for use with T4FT, T4W or SL4 optics. See IES files for details.
24. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
25. Replace X with number of Light Squares operating in low output mode.
26. Enlighted wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities.
27. Not available with house side shield (HSS).
28. Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected.
29. CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
30. One required for each Light Square.
31. Requires PR7.
32. Replace XX with sensor color (WH, BZ or BK.)
33. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
34. Smart device with mobile application required to change system defaults. See controls section for details.
35. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
36. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
37. Available for 7 - 10 squares.

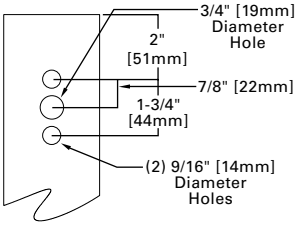
LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul	
L=LumenSafe Technology	**D**=Standard Dome Camera **H**=Hi-Res Dome Camera **Z**=Remote PTZ Camera	**C**=Cellular, No SIM **A**=Cellular, AT&T **V**=Cellular, Verizon **S**=Cellular, Sprint	**R**=Cellular, Rogers **W**=Wi-Fi Networking w/ Omni-Directional Antenna **E**=Ethernet Networking

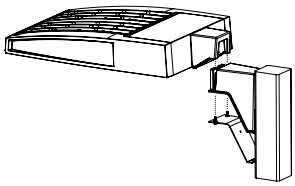
Mounting Details

Standard Arm (Drilling Pattern)

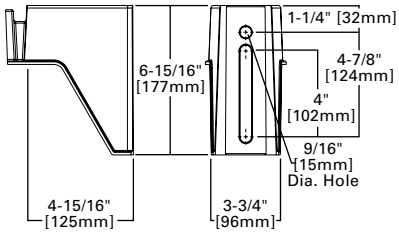
TYPE "N"



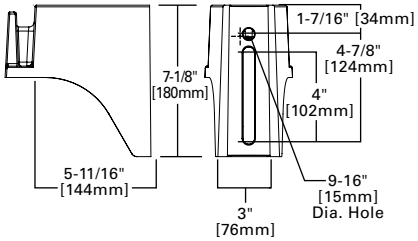
Quick Mount Arm (Includes fixture adapter)



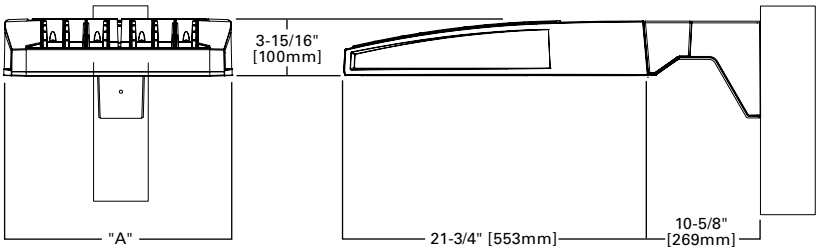
QM and QMEA Pole Mount (1 - 8 squares)



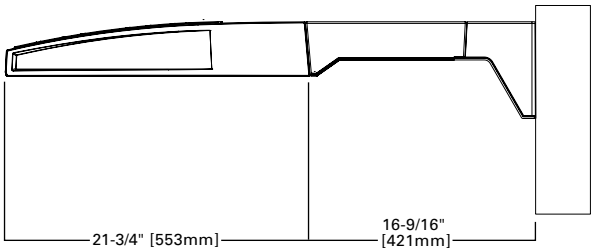
QML Pole Mount (7 - 10 squares)



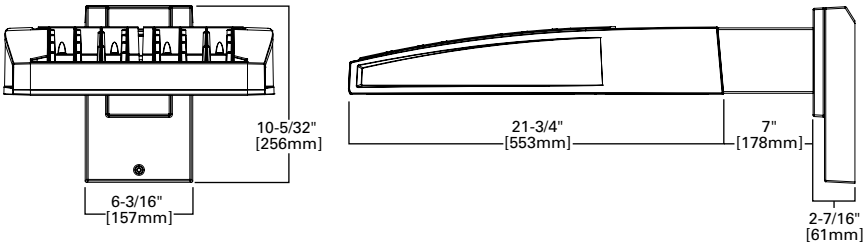
QM Quick Mount Arm (Standard, 1-8 squares)



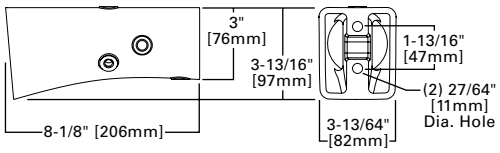
QMEA Quick Mount Arm (Extended, 1 - 6 squares)



Standard Wall Mount

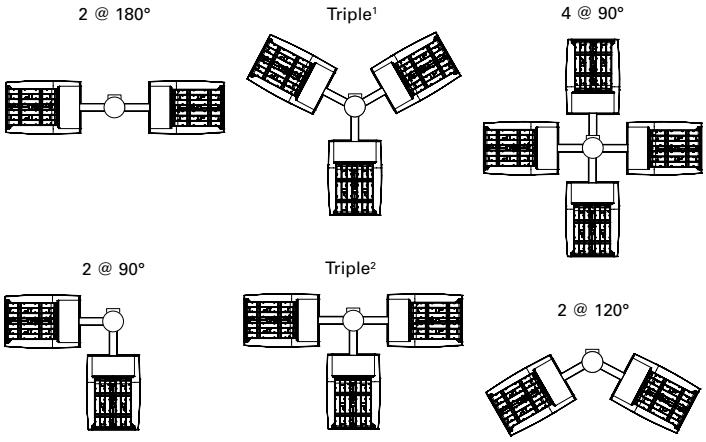


Mast Arm Mount



Arm Mounting Requirements

Number of Light Squares	Standard Arm @ 90° Apart	Standard Arm @ 120° Apart	Quick Mount Arm @ 90° Apart	Quick Mount Arm @ 120° Apart
1	Standard	Standard	QM Extended	Quick Mount
2	Standard	Standard	QM Extended	Quick Mount
3	Standard	Standard	QM Extended	Quick Mount
4	Standard	Standard	QM Extended	Quick Mount
5	Extended	Standard	QM Extended	Quick Mount
6	Extended	Standard	QM Extended	Quick Mount
7	Extended	Extended	--	Quick Mount
8	Extended	Extended	--	Quick Mount
9	Extended	Extended	--	--
10	Extended	Extended	--	--



NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. **2** Round poles are 3 @ 90°. **3** Shown with 4 square configurations.

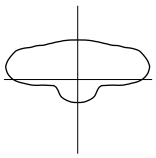
Fixture Weights and EPAs

Number of Light Squares	Weight with Standard and Extended Arm (lbs.)	EPA with Standard and Extended Arm (Sq. Ft.)	Weight with QM Arm (lbs.)	EPA with QM Arm (Sq. Ft.)	Weight with QML (lbs.)	EPA with QML (Sq. Ft.)	Weight with QMEA (lbs.)	EPA with QMEA (Sq. Ft.)
1-4	33	0.96	35	1.11	--	--	38	1.11
5-6	44	1.00	46	1.11	--	--	49	1.11
7-8	54	1.07	56	1.11	58	1.11	--	--
9-10	63	1.12	--	--	67	1.11	--	--

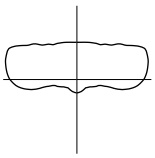
Optical Distributions

Asymmetric Area Distributions

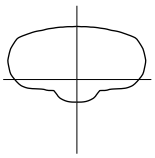
T2 (Type II)



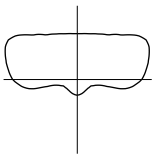
SL2 (Type II with Spill Control)



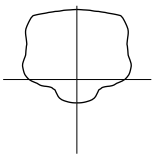
T3 (Type III)



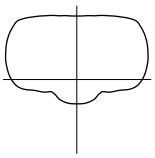
SL3 (Type III with Spill Control)



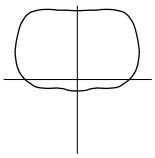
T4FT (Type IV Forward Throw)



T4W (Type IV Wide)

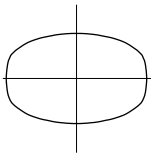


SL4 (Type IV with Spill Control)

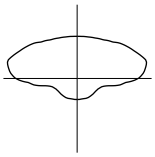


Asymmetric Roadway Distributions

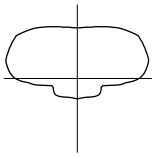
RW (Rectangular Wide Type I)



T2R (Type II Roadway)

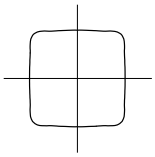


T3R (Type III Roadway)

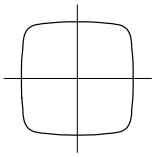


Symmetric Distributions

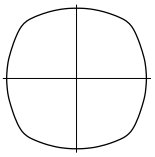
5NQ (Type V Square Narrow)



5MQ (Type V Square Medium)

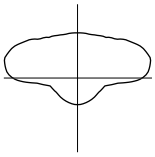


5WQ (Type V Square Wide)

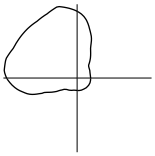


Specialized Distributions

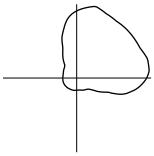
AFL (Automotive Frontline)



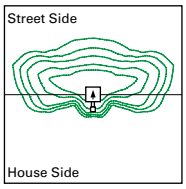
SLL (90° Spill Light Eliminator Left)



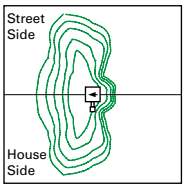
SLR (90° Spill Light Eliminator Right)



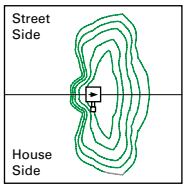
Rotated Optics



Standard



Optics Rotated Left @ 90° [L90]



Optics Rotated Right @ 90° [R90]

Product Specifications

Construction

- Extruded aluminum driver enclosure
- Heavy-wall, die-cast aluminum end caps
- Die-cast aluminum heat sinks
- Patent pending interlocking housing and heat sink

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 16 optical distributions
- 3 shielding options including HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED drivers are mounted to removable tray assembly for ease of maintenance
- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Standard extruded arm includes internal bolt guides and round pole adapter
- Extended arms (EA and QMEA) may be required in 90° or 120° pole mount configurations, see arm mounting requirements table
- Mast arm (MA) factory installed
- Wall mount (WM) option available
- Quick mount arm (QM and QMEA) includes pole adapter and factory installed fixture mount for fast installation to square or round poles

Finish

- Super housing durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year warranty

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

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

View GLEON IES files

Nominal Power Lumens (1.2A)

Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K Lumens	7,972	15,580	23,245	30,714	38,056	45,541	53,857	61,024	68,072	75,366
	BUG Rating	B1-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	B4-U0-G5
	Lumens per Watt	119	121	122	119	119	119	120	119	118	118
T2R	4000K Lumens	8,462	16,539	24,680	32,609	40,401	48,348	57,176	64,783	72,266	80,010
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	129	126	126	127	128	127	126	125
T3	4000K Lumens	8,125	15,879	23,693	31,307	38,787	46,417	54,893	62,197	69,381	76,818
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	122	123	122	121	120
T3R	4000K Lumens	8,306	16,232	24,220	32,001	39,651	47,447	56,114	63,580	70,924	78,523
	BUG Rating	B1-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	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
T4FT	4000K Lumens	8,173	15,970	23,831	31,488	39,014	46,686	55,212	62,558	69,783	77,261
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	122	124	125	122	122	122	123	122	121	121
T4W	4000K Lumens	8,067	15,764	23,522	31,080	38,510	46,082	54,499	61,751	68,881	76,263
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	120	122	123	120	120	121	122	121	120	119
SL2	4000K Lumens	7,958	15,552	23,206	30,662	37,989	45,462	53,763	60,920	67,952	75,235
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	121	121	119	119	119	120	119	118	118
SL3	4000K Lumens	8,124	15,877	23,690	31,302	38,784	46,410	54,885	62,189	69,372	76,805
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	123	124	121	121	121	123	122	121	120
SL4	4000K Lumens	7,719	15,085	22,510	29,741	36,850	44,097	52,148	59,089	65,913	72,977
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	115	117	118	115	115	115	116	116	115	114
5NQ	4000K Lumens	8,380	16,375	24,436	32,287	40,003	47,870	56,610	64,144	71,552	79,221
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	127	128	125	125	125	126	126	124	124
5MQ	4000K Lumens	8,534	16,676	24,885	32,881	40,739	48,752	57,653	65,326	72,868	80,679
	BUG Rating	B3-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	B5-U0-G5
	Lumens per Watt	127	129	130	127	127	128	129	128	127	126
5WQ	4000K Lumens	8,556	16,723	24,951	32,968	40,847	48,881	57,808	65,499	73,063	80,894
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	128	130	131	128	128	128	129	128	127	126
SLL/ SLR	4000K Lumens	7,140	13,951	20,817	27,506	34,081	40,783	48,231	54,649	60,959	67,492
	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	107	108	109	107	107	107	108	107	106	105
RW	4000K Lumens	8,304	16,228	24,215	31,994	39,641	47,437	56,100	63,566	70,907	78,504
	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-G5	B5-U0-G5
	Lumens per Watt	124	126	127	124	124	124	125	124	123	123
AFL	4000K Lumens	8,335	16,287	24,302	32,110	39,784	47,610	56,303	63,796	71,163	78,790
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	124	126	127	124	124	125	126	125	124	123

*** Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.**

Nominal Power Lumens (1A)

Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K Lumens	7,267	14,201	21,190	28,000	34,692	41,515	49,096	55,627	62,053	68,703
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	126	128	124	124	125	126	125	124	123
T2R	4000K Lumens	7,715	15,077	22,497	29,725	36,829	44,073	52,122	59,056	65,876	72,937
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	133	136	132	132	132	133	133	131	131
T3	4000K Lumens	7,408	14,475	21,598	28,539	35,358	42,313	50,039	56,698	63,246	70,024
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
T3R	4000K Lumens	7,571	14,798	22,078	29,172	36,145	43,253	51,153	57,959	64,653	71,581
	BUG Rating	B1-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	B4-U0-G5
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
T4FT	4000K Lumens	7,451	14,559	21,725	28,703	35,564	42,558	50,330	57,027	63,613	70,430
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	129	131	128	127	128	129	128	127	126
T4W	4000K Lumens	7,354	14,371	21,442	28,333	35,105	42,007	49,681	56,291	62,792	69,521
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	127	129	126	126	126	127	126	125	125
SL2	4000K Lumens	7,254	14,178	21,155	27,951	34,631	41,443	49,011	55,533	61,944	68,584
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	125	127	124	124	124	125	125	124	123
SL3	4000K Lumens	7,406	14,474	21,596	28,534	35,355	42,307	50,033	56,690	63,237	70,014
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	128	130	127	127	127	128	127	126	125
SL4	4000K Lumens	7,037	13,751	20,519	27,112	33,592	40,198	47,538	53,864	60,087	66,524
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	119	122	124	120	120	121	122	121	120	119
5NQ	4000K Lumens	7,640	14,928	22,275	29,431	36,465	43,637	51,606	58,472	65,226	72,218
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	132	134	131	131	131	132	131	130	129
5MQ	4000K Lumens	7,779	15,203	22,684	29,973	37,137	44,441	52,555	59,549	66,427	73,545
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	133	133	133	134	134	133	132
5WQ	4000K Lumens	7,800	15,243	22,744	30,052	37,236	44,560	52,697	59,708	66,603	73,742
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	132	135	137	134	133	134	135	134	133	132
SLL/ SLR	4000K Lumens	6,510	12,719	18,977	25,075	31,067	37,176	43,967	49,817	55,569	61,525
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	110	113	114	111	111	112	112	112	111	110
RW	4000K Lumens	7,570	14,793	22,073	29,165	36,137	43,243	51,140	57,945	64,637	71,564
	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
	Lumens per Watt	128	131	133	130	130	130	131	130	129	128
AFL	4000K Lumens	7,598	14,847	22,154	29,272	36,267	43,400	51,326	58,156	64,872	71,824
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	129	131	133	130	130	130	131	131	129	129

*** Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.**

Nominal Power Lumens (800mA)

Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K Lumens	5,871	11,474	17,121	22,622	28,029	33,542	39,667	44,944	50,134	55,508
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	135	134	135	134	132
T2R	4000K Lumens	6,233	12,181	18,176	24,016	29,756	35,608	42,111	47,714	53,224	58,929
	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	B3-U0-G5	B4-U0-G5
	Lumens per Watt	142	143	147	140	142	143	143	143	142	141
T3	4000K Lumens	5,986	11,695	17,450	23,057	28,568	34,186	40,430	45,809	51,099	56,576
	BUG Rating	B1-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	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
T3R	4000K Lumens	6,117	11,955	17,838	23,569	29,203	34,946	41,328	46,827	52,235	57,832
	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	B4-U0-G5	B4-U0-G5
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
T4FT	4000K Lumens	6,019	11,763	17,551	23,190	28,734	34,384	40,663	46,074	51,396	56,904
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	137	138	142	136	137	138	138	138	137	136
T4W	4000K Lumens	5,942	11,610	17,324	22,891	28,363	33,940	40,138	45,480	50,732	56,169
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	135	137	140	134	135	136	136	136	136	134
SL2	4000K Lumens	5,862	11,454	17,091	22,583	27,980	33,484	39,598	44,867	50,048	55,411
	BUG Rating	B1-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	B4-U0-G5
	Lumens per Watt	133	135	138	132	133	134	134	134	134	132
SL3	4000K Lumens	5,985	11,694	17,447	23,053	28,565	34,182	40,424	45,804	51,092	56,568
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	136	138	141	135	136	137	137	137	137	135
SL4	4000K Lumens	5,685	11,111	16,577	21,905	27,140	32,478	38,409	43,520	48,546	53,748
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	129	131	134	128	129	130	130	130	130	128
5NQ	4000K Lumens	6,172	12,061	17,997	23,778	29,462	35,256	41,694	47,242	52,699	58,347
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	140	142	145	139	140	142	141	141	141	139
5MQ	4000K Lumens	6,285	12,283	18,328	24,217	30,004	35,907	42,462	48,112	53,669	59,421
	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-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	144	144	144	144	142
5WQ	4000K Lumens	6,303	12,317	18,377	24,281	30,085	36,001	42,575	48,241	53,812	59,579
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	143	145	148	142	143	145	144	144	144	142
SLL/ SLR	4000K Lumens	5,260	10,276	15,332	20,259	25,101	30,037	35,522	40,249	44,898	49,708
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	120	121	124	118	120	121	120	121	120	119
RW	4000K Lumens	6,116	11,952	17,834	23,563	29,196	34,938	41,317	46,817	52,224	57,819
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	139	141	144	138	139	140	140	140	140	138
AFL	4000K Lumens	6,139	11,996	17,899	23,650	29,302	35,064	41,468	46,987	52,412	58,030
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	140	141	144	138	140	141	141	141	140	138

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Nominal Power Lumens (600mA)

Supplemental Performance Guide**

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K Lumens	4,787	9,357	13,961	18,448	22,856	27,353	32,347	36,651	40,884	45,265
	BUG Rating	B1-U0-G1	B2-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
	Lumens per Watt	141	142	145	143	141	142	143	143	141	140
T2R	4000K Lumens	5,083	9,934	14,822	19,585	24,266	29,038	34,341	38,911	43,404	48,055
	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-G5
	Lumens per Watt	150	151	154	152	150	150	152	151	150	149
T3	4000K Lumens	4,880	9,537	14,231	18,803	23,296	27,878	32,970	37,358	41,671	46,137
	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	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	148	146	144	144	146	145	144	143
T3R	4000K Lumens	4,988	9,749	14,547	19,220	23,814	28,497	33,703	38,188	42,598	47,162
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	147	148	152	149	147	148	149	149	147	146
T4FT	4000K Lumens	4,909	9,591	14,312	18,911	23,432	28,040	33,161	37,574	41,913	46,404
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	144	145	149	147	145	145	147	146	145	144
T4W	4000K Lumens	4,845	9,468	14,128	18,668	23,130	27,678	32,732	37,088	41,371	45,805
	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
	Lumens per Watt	143	143	147	145	143	143	145	144	143	142
SL2	4000K Lumens	4,779	9,341	13,937	18,416	22,818	27,305	32,292	36,589	40,813	45,188
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	141	142	145	143	141	141	143	142	141	140
SL3	4000K Lumens	4,879	9,536	14,229	18,800	23,294	27,874	32,965	37,351	41,666	46,130
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	144	144	148	146	144	144	146	145	144	143
SL4	4000K Lumens	4,637	9,059	13,519	17,863	22,132	26,486	31,322	35,490	39,589	43,831
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	136	137	141	138	137	137	139	138	137	136
5NQ	4000K Lumens	5,033	9,835	14,676	19,392	24,026	28,751	34,002	38,526	42,975	47,581
	BUG Rating	B2-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	B5-U0-G3
	Lumens per Watt	148	149	153	150	148	149	150	150	148	147
5MQ	4000K Lumens	5,126	10,015	14,946	19,747	24,468	29,281	34,628	39,236	43,766	48,457
	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
	Lumens per Watt	151	152	156	153	151	152	153	153	151	150
5WQ	4000K Lumens	5,139	10,043	14,985	19,801	24,533	29,359	34,721	39,339	43,883	48,586
	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-G5	B5-U0-G5
	Lumens per Watt	151	152	156	153	151	152	154	153	151	150
SLL/ SLR	4000K Lumens	4,289	8,380	12,502	16,520	20,469	24,494	28,967	32,823	36,613	40,537
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	126	127	130	128	126	127	128	128	126	126
RW	4000K Lumens	4,987	9,746	14,543	19,215	23,808	28,491	33,695	38,178	42,587	47,151
	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
	Lumens per Watt	147	148	151	149	147	148	149	149	147	146
AFL	4000K Lumens	5,007	9,782	14,597	19,285	23,896	28,594	33,817	38,317	42,742	47,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	147	148	152	149	148	148	150	149	147	147

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Control Options

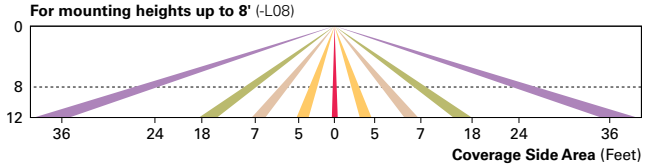
0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (BPC, PR and PR7)
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

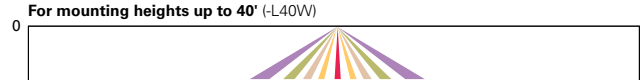
After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX, MS/X-LXX and MS-LXX)
These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

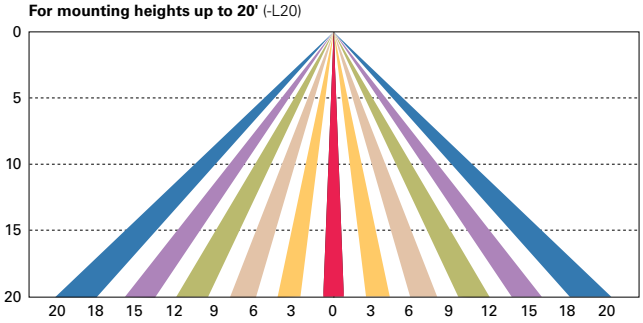
For mounting heights up to 8' (-L08)



For mounting heights up to 40' (-L40W)

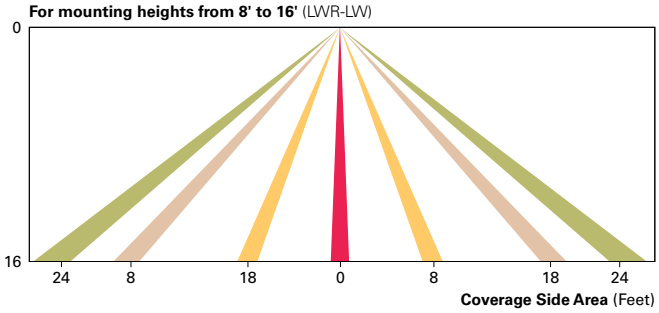


For mounting heights up to 20' (-L20)

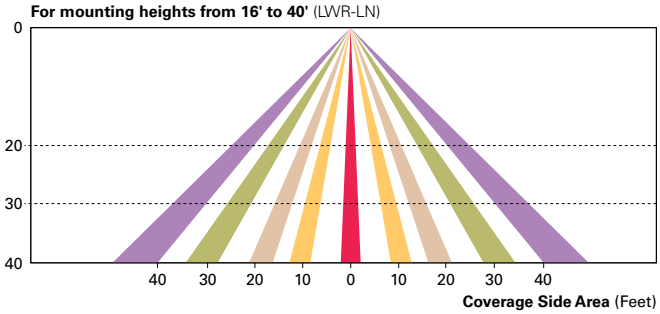


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)
Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

Synapse (DIM10)
SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional Synapse system components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Project		Catalog #		Type	
Prepared by		Notes		Date	

HALO Commercial

HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

Product Certification

ENERGY STAR · Efficiency Standards T24 Can be used to comply with California Title 24 Non-Residential · wet location · Chicago Plenum Approved · FC · RoHS Compliant · UL Certified

Product Features

Rapid Response CLICK HERE · Showerlight

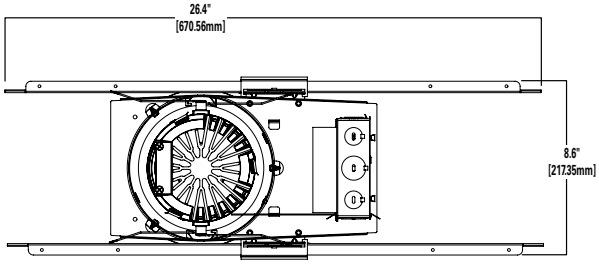
Control Compatibility

WaveLinx LITE · WaveLinx PRO

Top Product Features

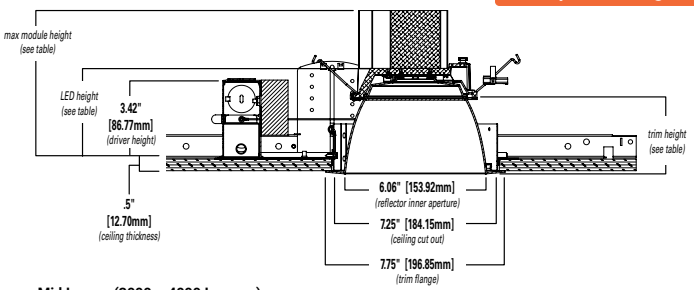
- New construction/remodel series; 500 to 6,000 lumens
- Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Mounting frame converts to remodel that installs from below the ceiling
- Rapid Response emergency backup mounting frames - fast delivery option

Dimensional and Mounting Details



NEW CONSTRUCTION - MID LUMEN
3000 AND 4000 LUMEN

additional product diagrams



Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

Mounting Frame Order Information

Sample Number: HC620D010REM7 – HM60525835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC6 = 6" new construction downlight housing **HC6CP** = 6" new construction housing, Chicago Plenum - CCEA compliant	**05** = 500 lm **07** = 750 lm **10** = 1000 lm **15** = 1500 lm **20** = 2000 lm **25** = 2500 lm **30** = 3000 lm **35** = 3500 lm **40** = 4000 lm **45** = 4500 lm (7) **50** = 5000 lm (7) **55** = 5500 lm (7) **60** = 6000 lm (7)	**D010**=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls **Canada Option 500-5000 lumens: D010347** = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000lm models only (1) **Canada Option 5500-6000 lumens: D010X347** = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lm models only (1)	**REM7** = 7 watt emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) **REM14** = 14 watt emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) **IEM7** = 7 watt emergency battery pack with integral test / indicator light, use with D010 only (1) (2) (6) **IEM14** = 14 watt emergency battery pack with integral test / indicator light, use with D010 only (1) (2) (6) **BOD7ST** = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) **WTA** = Factory WaveLinx Tilemount Sensor Kit (4) **WTK** = Factory WaveLinx LITE Commercial Tilemount Sensor Kit (5) **WPN** = WaveLinx PRO Wireless Node without sensor (9)	**HB128APK** = L channel hanger bar, 26", pair (replacement) **RMB22** = Adjustable wood joist mounting bars, pair, extend to 22" long **HSA6** = Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installing housing and trim) **H347** = 347 to 120V step down transformer, 75VA **H347200** = 347 to 120V step down transformer, 200VA **WTA** = Field WaveLinx Tilemount Sensor Kit (4) **WTK** = Field WaveLinx LITE Commercial Tilemount Sensor Kit (5)
		DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details. (1)	**REMV7** = 7 watt emergency battery pack with remote test / indicator light, use with DLV only (1) (2) (3) (6) **REMV14** = 14 watt emergency battery pack with remote test / indicator light, use with DLV only (1) (2) (3) (6) **IEMV7** = 7 watt emergency battery pack with integral test / indicator light, use with DLV only (1) (2) (3) (6) **IEMV14** = 14 watt emergency battery pack with integral test / indicator light, use with DLV only (1) (2) (3) (6)	
Notes	**Notes** (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5	**Notes** (1) Not available with CP models	**Notes** (1) Not available with CP models (2) Not available with D010347 (347V models) (3) ULus for U.S. only (4) WTA = WaveLinx tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinx specifications) (5) WTK = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE specifications) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (9) WPN = WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.	**Notes** (4) WTA = WaveLinx tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinx specifications) (5) WTK = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE specifications)

Rapid Response Emergency Mounting Frame Order Information

Select from the Rapid Response Mounting Frame ordering information to receive the *Fast Delivery* option for the frame.

Sample Number :

Rapid Response Emergency Mounting Frame: RR-HC620D010REM7

LED module and reflectors are ordered separately.

Order separately: LED Module: HM60525835 | Reflector: 61MDC

RR Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
RR = East Region **BRR** = West Region	**HC6** = 6" new construction downlight housing	**05** = 500 lm **07** = 750 lm **10** = 1000 lm **15** = 1500 lm **20** = 2000 lm **25** = 2500 lm **30** = 3000 lm **35** = 3500 lm **40** = 4000 lm **45** = 4500 lm (7) **50** = 5000 lm (7) **55** = 5500 lm (7) **60** = 6000 lm (7)	**D010**=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	**REM7** = 7 watt emergency battery pack with remote test / indicator light, use with D010 only (2) (6) **REM14** = 14 watt emergency battery pack with remote test / indicator light, use with D010 only (2) (6) **IEM7** = 7 watt emergency battery pack with integral test / indicator light, use with D010 only (2) (6) **IEM14** = 14 watt emergency battery pack with integral test / indicator light, use with D010 only (2) (6) **BOD7ST** = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only (2) (6)	**HB128APK** = L channel hanger bar, 26", pair (replacement) **RMB22** = Adjustable wood joist mounting bars, pair, extend to 22" long
Notes	**Notes**	**Notes** (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5	**Notes**	**Notes** (2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C	**Notes**

LED Module Order Information

LED Module	Lumens	CRI/CCT	
HM6 = 6" LED Modules For use with HC6 - HC6CP New Construction housings only	**0525** = 500 - 2500 lumen **3040** = 3000-4000 lumen **4560** = 4500-6000 lumen	**827** = 80CRI, 2700K **830** = 80CRI, 3000K **835** = 80CRI, 3500K **840** = 80CRI, 4000K **850** = 80CRI, 5000K	**927** = 90CRI, 2700K **930** = 90CRI, 3000K **935** = 90CRI, 3500K **940** = 90CRI, 4000K **950** = 90CRI, 5000K
Notes	**Notes**	**Notes**	

Trim Order Information

Reflector	Distribution[8]	Finish	Flange	Accessories
61 = 6" conical reflector	**ND** = narrow 55° beam angle 0.97 SC **MD** = medium 60° beam angle 1.10 SC **WD** = wide 65° beam angle 1.28 SC **RWW** = rotatable wall wash with linear spread lens	**C** = Specular clear **H** = Semi-specular clear **W** = White	**Blank** = Polished flange standard with C & H reflectors **Blank** = White flange standard with W reflector **WF** = White flange option available with C & H reflectors	**61RWWPK** = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	**Notes** (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	**Notes**	**Notes**	**Notes**

Baffle	Distribution[8]	Finish	Flange	Accessories
61 = 6" baffle reflector	**WD** = wide 65° beam angle 1.28 SC (nominal) **RWW** = rotatable wall wash with linear spread lens	**BB** = Black baffle **WB** = White baffle	**Blank** = White flange standard with BB, & WB **BF** = Black flange option available with BB	**61RWWPK** = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	**Notes** (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	**Notes**	**Notes**	**Notes**

Reflector	Distribution[8]	Finish	Flange
61PS = 6" non-conductive polymer 'dead front' conical reflector [9]	**MD** = medium 60° beam angle 1.10 SC (nominal)	**W** = White	**Blank** = White flange standard with W reflector
Notes (9) 61PS is 1000-2000 lumens Non-IC rated. 500 & 750 lumens IC rated. 61PS is not for use over 2000lm in Non-IC or over 750lm in IC.	**Notes** (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	**Notes**	**Notes**

IEM Reflector	Distribution[8]	Finish	Flange	Integral Emergency
61 = 6" IEM reflector for integral emergency only	**ND** = narrow 55° beam angle 0.97 SC **MD** = medium 60° beam angle 1.10 SC **WD** = wide 65° beam angle 1.28 SC	**C** = Specular clear **H** = Semi-specular clear **W** = White	**Blank** = Polished flange standard with C & H reflectors **Blank** = White flange standard with W reflector **WF** = White flange option available with C & H reflectors	**IEM** = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	**Notes** (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	**Notes**	**Notes**	**Notes**

IEM Baffle	Distribution[8]	Finish	Flange	Integral Emergency
61 = 6" IEM baffle reflector for integral emergency only	**WD** = wide 65° beam angle 1.28 SC (nominal)	**BB** = Black baffle **WB** = White baffle	**Blank** = White flange standard with BB, & WB **BF** = Black flange option with BB	**IEM** = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	**Notes** (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	**Notes**	**Notes**	**Notes**

Product Specifications

Housing Frame
- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling (with mounting bars removed)
- Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket
- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars
- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module
- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflector
- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 2000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

Reflector/Module Retention
- Reflector/module assembly is securely retained in the housing with two torsion springs

Driver
- Field-replaceable constant current driver provides low noise operation
- Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options
- 347VAC 50/60Hz; 1% dimming on 0 -10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

Emergency Option
- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Rapid Response emergency ordering option for quick-turn projects

Connected Lighting System
Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit
- WaveLinx WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node
- WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only.

WaveLinx LITE Tilemount Sensor Kit
- WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx Tilemount Kits Application
- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Junction Box
- Galvanized steel junction box
- 20 in^3 internal volume excluding voltage barrier
- 25 in^3 internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90˚C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance
- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
- Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
- IP20 - Above finished ceiling; IP65 - Below finished ceiling
- Non-Insulated ceiling (Non-IC) rated for 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
- Insulated ceiling (IC) rated for 500, 750, 1000, 1500, 2000 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
- Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
  - Marked Spacing Center to Center of Adjacent Luminaires = 36"
  - Center of Luminaire to Building Member = 18"
  - Minimum overhead = 0.5"
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
- Contains no mercury or lead and RoHS compliant
- Photometric testing completed in accordance of IES LM-79-08
- Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 500, 750, 1,000, 1,500 and 2,000 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
- May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
- ENERGY STAR® certified, reference certified light fixtures database

*Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

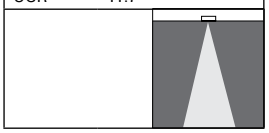
Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Photometric Data

View IES files

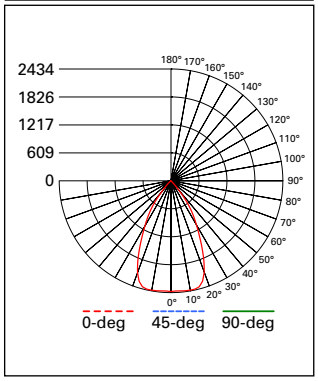
NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)	
Test Number	P581878
Housing	HC620D010
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7

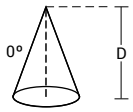


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



MH	FC	L	W
5.5'	80.2	5	5
7'	49.5	6.4	6.4
8'	37.9	7.4	7.4
9'	30	8.2	8.2
10'	24.3	9.2	9.2
12'	16.9	11	11

CANDELA TABLE

Degrees Vertical	Candela
0	2427
5	2422
15	2405
25	1621
35	761
45	118
55	12
65	3
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

LUMINANCE

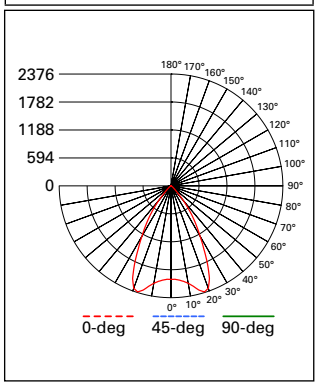
Average Candela Degrees	Average 0° Luminance
45	9187
55	1118
65	376
75	318
85	0

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

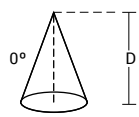
MEDIUM (60° BEAM*)	
Test Number	P581875
Housing	HC620D010
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8

CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



MH	FC	L	W
5.5'	68.7	5.6	5.6
7'	42.4	7.2	7.2
8'	32.5	8.2	8.2
9'	25.7	9.4	9.4
10'	20.8	10.4	10.4
12'	14.4	12.4	12.4

CANDELA TABLE

Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1671	72.4
0-40	2163	93.8
0-60	2301	99.7
0-90	2307	100
90-180	0	0
0-180	2307	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0

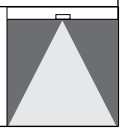
Note: Refer to IES files for more product data.

Photometric Data

View IES files

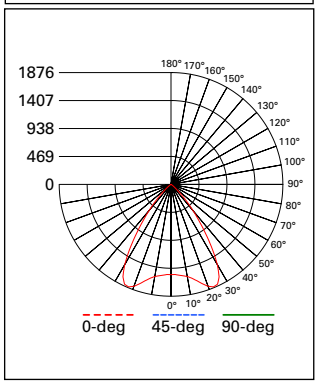
WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)	
Test Number	P581885
Housing	HC620D010
Module	HM60525835
Reflector	61WDC
Lumens	2359 Lm
Efficacy	118 Lm/W
SC	1.28
UGR	11.6

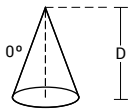


CANDLEPOWER DISTRIBUTION

Downlight



CONE OF LIGHT



MH	FC	L	W
5.5'	50.5	7	7
7'	31.2	8.8	8.8
8'	23.9	10.2	10.2
9'	18.8	11.4	11.4
10'	15.3	12.8	12.8
12'	10.6	15.4	15.4

CANDELA TABLE

Degrees Vertical	Candela
0	1526
5	1540
15	1685
25	1861
35	1027
45	252
55	32
65	6
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1461	61.9
0-40	2105	89.2
0-60	2351	99.6
0-90	2359	100
90-180	0	0
0-180	2359	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	19506
55	3078
65	765
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

Photometric Data

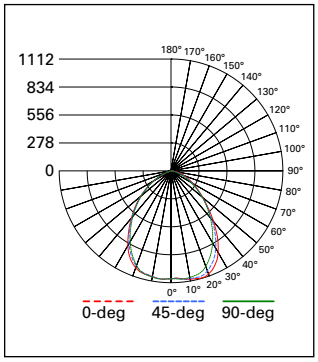
View IES files

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P581882
Housing	HC620D010
Module	HM60525835
Reflector	61RWWC
Lumens	2179 Lm
Efficacy	109 Lm/W
SC	1.15

CANDLEPOWER DISTRIBUTION

Downlight



CANDELA TABLE	
Degrees Vertical	Candela
0	1080
5	1081
15	1112
25	1034
35	800
45	514
55	319
65	184
75	85
85	12
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	849	39
0-40	1313	60.2
0-60	1978	90.8
0-90	2179	100
90-180	0	0
0-180	2179	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	39810
55	30479
65	23907
75	17983
85	7359

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES

	2.5' from wall (distance from fixture along wall)						
1	19.3	13.8	6.1	2.2	0.7	0.3	0.1
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6
3	27.6	22.5	13.8	7.3	3.7	1.9	1
4	21	18.2	12.4	7.4	4.2	2.4	1.4
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5
8	4.7	4.6	4.1	3.4	2.7	2	1.4
9	3.4	3.3	3.1	2.7	2.2	1.7	1.3
10	2.5	2.5	2.4	2.1	1.8	1.4	1.1

MULTIPLE UNIT FOOTCANDLES

	2.5' from wall (Distance from fixture along 3')			2.5' from wall (Distance from fixture along 4')		
1	21.5	19.1	21.5	20	12.1	20
2	34.7	34.4	34.7	31.6	24.6	31.6
3	34.9	36	34.9	31.3	27.6	31.3
4	28.4	30.7	28.4	25.2	24.8	25.2
5	21	23.2	21	18.6	19.8	18.6
6	15.2	16.8	15.2	13.4	15	13.4
7	11	12	11	9.9	11	9.9
8	8.1	8.7	8.1	7.4	8.2	7.4
9	6.1	6.5	6.1	5.6	6.2	5.6
10	4.6	4.9	4.6	4.3	4.7	4.3

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

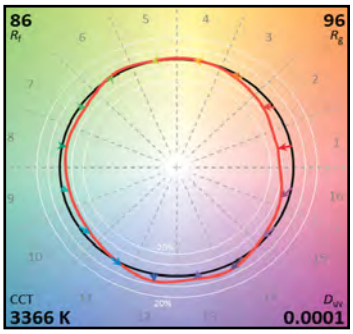
Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

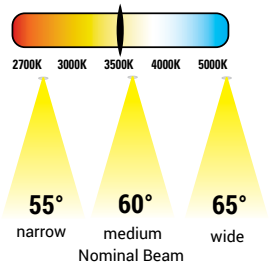
Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)

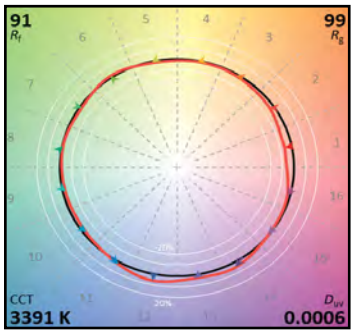
80 CRI Color Metric Summary - 3500K*



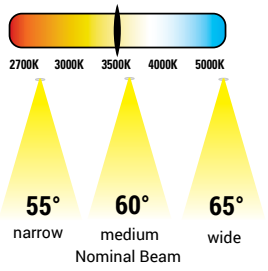
TM-30-15	Rf = 86
	Rg = 95.5
CRI/CIE	Ra = 83.8
	R9 = 10.3



90 CRI Color Metric Summary - 3500K*



TM-30-15	Rf = 91.1
	Rg = 99
CRI/CIE	Ra = 92.4
	R9 = 55.1



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

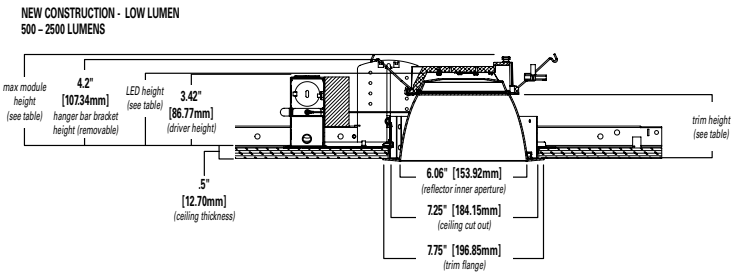
Series	5000 lumen		5500 lumen		6000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)* (Nominal input 120-277VAC & 100% of rated output power)
Sound Rating: Class A standards

Notes:
* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 – 2500 LUMENS

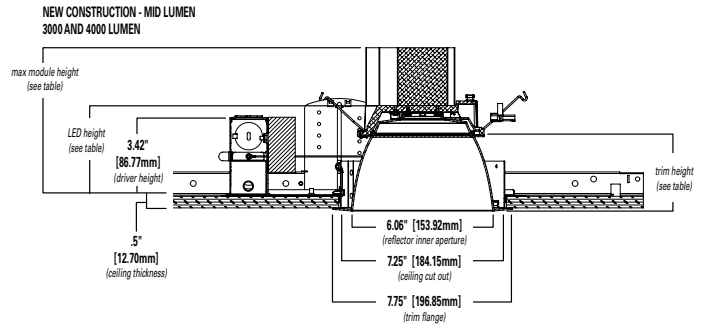


Low Lumen (500 – 2500 Lumens)*

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"

*Max. height w/removable hanger bar bracket 4.2"

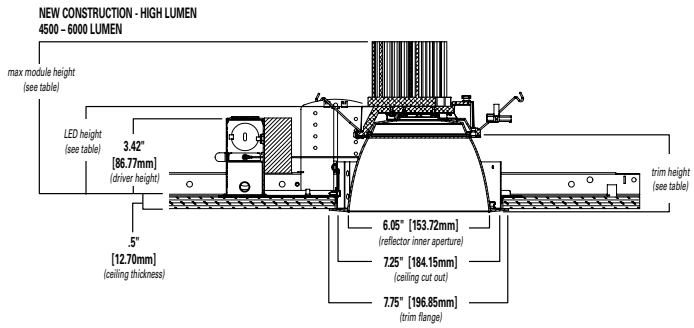
NEW CONSTRUCTIONS - MID LUMEN 3000 – 4000 LUMENS



Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

NEW CONSTRUCTIONS - HIGH LUMEN 4500 – 6000 LUMENS



High Lumen (4500 – 6000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.9"	3.4"	3.8"
Medium	7.0"	3.5"	3.9"
Wide	6.8"	3.3"	3.7"
Baffle	6.8"	3.3"	3.7"

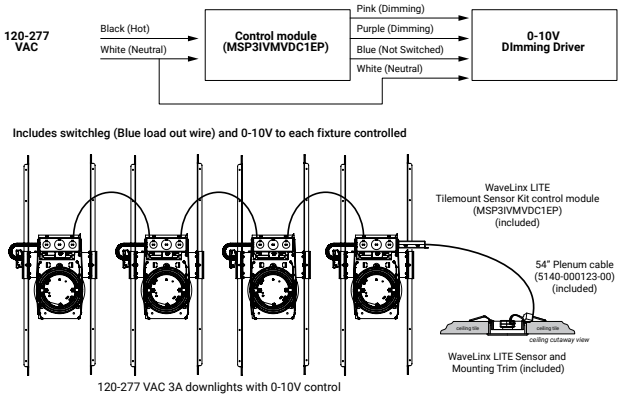
Connected Solutions

WaveLinx LITE - WTK Tilemount Sensor

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinx system specifications for details

Network Security | Manual Dimmer | Occupancy Sensor | Daylighting Control | Manually Switched ON/OFF | Tuning Control | Lumen Maintenance Control | Scenes

WaveLinx LITE WTK Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System

WaveLinx PRO – WTA Tilemount Sensor

- WaveLinx PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

Downlights with tilemount sensor wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

Wireless Wall Station/Receptacle
Provides customized wireless control of each area

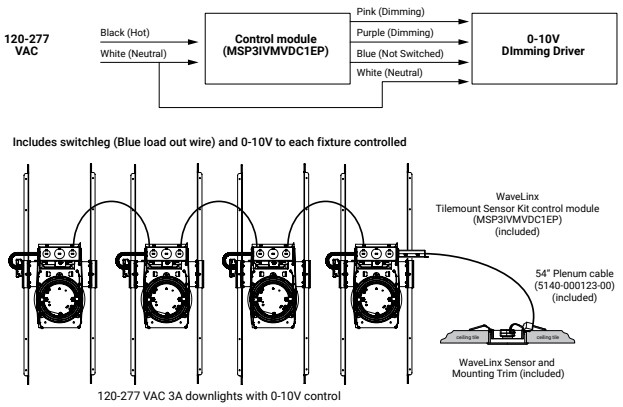
Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

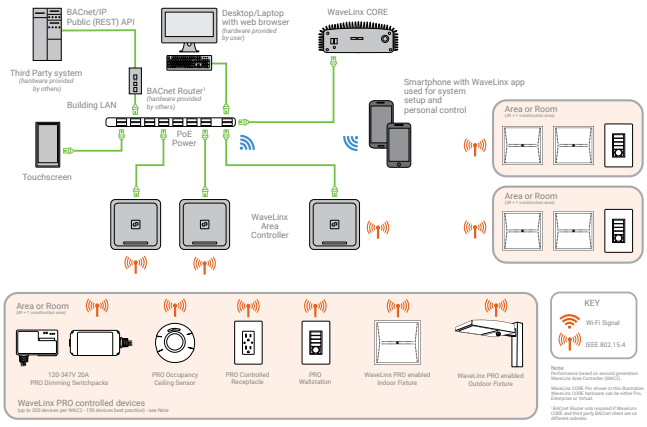
Manual Dimmer | Occupancy Sensor | Lumen Maintenance Control | Daylighting Control

Receptacle Control | Tuning Control | Scheduling | Manually Switched ON/OFF | Demand Response

WaveLinx WTA Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Solutions

WaveLinx PRO Wireless Node - WPN

- WaveLinx Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinx Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

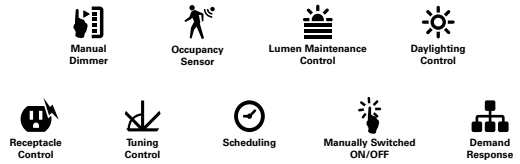
Downlights with wireless communication
Highly efficient LED fixtures

WaveLinx Area Controller
Provides centralized coordination of multiple area control options

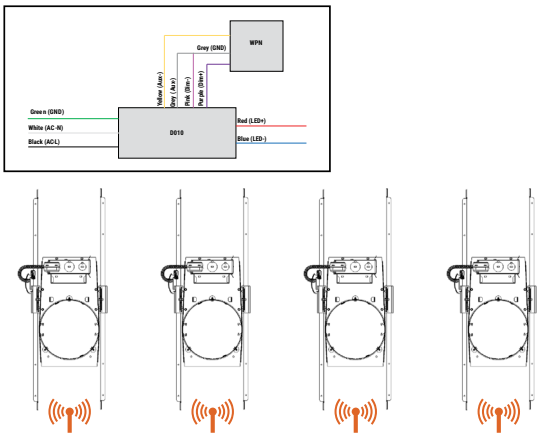
Wireless Wall Station/Receptacle
Provides customized wireless control of each area

Mobile Applications
Provides personalized, local control from a tablet or smartphone

WaveLinx mobile app settings

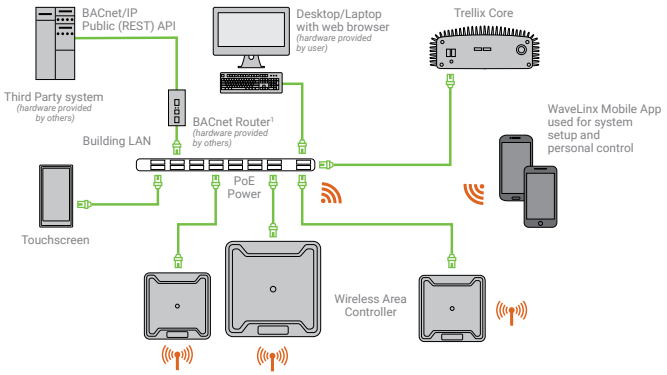


WaveLinx PRO Wireless Node (WPN) Wiring Diagram



120-277 VAC 3A downlights with 0-10V control

WaveLinx CORE Building Management Integration

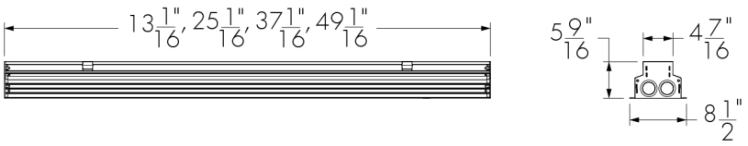


Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

Top view



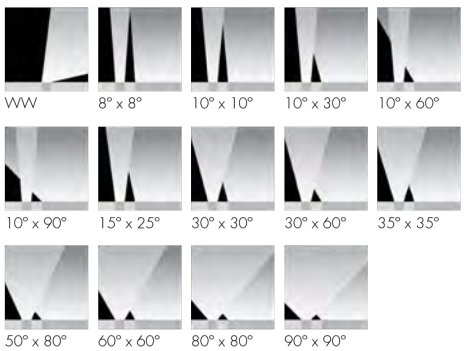
Front and side views

Photometric Summary

	Delivered output (lm)	Intensity (peak cd)
WW	3,634	10,795
8°x8°	4,512	59,238
10°x10°	4,410	33,872
10°x30°	4,586	25,296
10°x60°	3,876	12,062
10°x90°	4,077	6,927
15°x25°	4,346	19,773
30°x30°	4,730	16,886
30°x60°	4,035	5,317
35°x35°	4,612	11,616
50°x80°	4,656	3,904
60°x60°	3,868	3,368
80°x80°	4,548	2,992
90°x90°	4,070	2,132

Based on HO 40K full output, 4ft [1219mm], DMX/RDM configuration.
2.5° factory-set tilt setting for WW optic, 0° tilt setting for all other optics.
Photometric performance is measured in compliance with IESNA LM-79-08.

Optics



Description

The Lumenfacade Inground is an LED luminaire designed for ground-recessed lighting applications, including asymmetric wall washing, grazing, and linear wayfinding. An innovative, plug and play design simplifies installation, protecting the system from water infiltration and ensuring long-lasting performance. Featuring second generation LED technology, the Lumenfacade Inground is available in four different sizes (12 in, 24 in, 36 in or 48 in), with a wide choice of outputs, color temperatures, color-mixing systems, optics and controls. A unique asymmetric wallwash distribution is also available, providing exceptional uniformity and brightness for walls and signage.

Features

Construction	Walk over compliant up to 500 kg in any type of ground, Walk over compliant up to 1000 kg in concrete
Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue
Length (nominal)	12 in, 24 in, 36 in, 48 in
Optics	Asymmetric wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 80°, 60° x 60°, 80° x 80°, 90° x 90°
Tilt Setting (factory set)	0 degrees, 2.5 degrees, 5 degrees, 20 degrees
Optical Option	Internal louver
Options	Anti-slip lens, CE (certification covers European Economic Area)
Power Consumption	5 W/ft (meets ASHRAE standards for linear lighting on building facades - not available for 12 in fixture lengths), 8.5 W/ft (RO version), 15.25 W/ft (HO version), Typically 20% higher for 12 in fixture lengths
Warranty	5-year limited warranty

Colors and Color Temperatures

Controls

Ratings

IP68 IK10

Certifications

Performance

Maximum Delivered Output	4,730 lm (48 in fixture, 4000K, 30° x 30°, 0° tilt setting, DMX/RDM)
Maximum Delivered Intensity	59,238 cd at nadir (48 in fixture, 4000K, 8° x 8°, 0° tilt setting, DMX/RDM)
Illuminance at Distance	Minimum 1 fc at 243 ft (48 in fixture, 4000K, 8° x 8°, 0° tilt setting, DMX/RDM)
Color Consistency	2 SDCM, 3 SDCM (2200K)
Color Rendering	Minimum CRI 80
Lumen Maintenance	L70 280,000 hrs, L95 35,000 hrs

Physical

Optical Chamber Material	Aluminum
Blockout Material	Polymer recycled PVC reinforced with a stainless steel frame
Trim Material	Anodized aluminum
Lens Material	Tempered glass
End Cap Material	Die cast aluminum
Hardware Material	Stainless steel
Weight	12 in: 7.5 lbs, 24 in: 15.3 lbs, 36 in: 21.4 lbs, 48 in: 27 lbs

Electrical and control

Voltage	120 to 277 volts
Fixture Cable	Power and data in one cable
Leader Cable Conductor	5C #16-5
Connectors	IP68 push-lock
Control	On/Off control, Lumentalk, 0-10V dimming, DALI dimming, Lutron® EcoSystem® Enabled dimming, DMX/RDM enabled
Resolution (DMX/RDM)	Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit

Environmental

Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP68 rated for up to 1 ft, not suitable for permanent immersion applications
Impact Resistance Rating	IK10

Accessories (order separately)

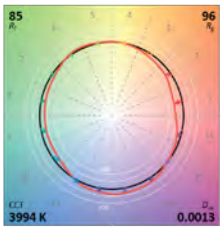
Cables	Lumenfacade Inground Leader Cable, Lumenfacade Inground Jumper Cable
Electrical Accessories	Lumenfacade Inground Junction Box

Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
Control Systems	Lumentone™ 2 (LTN2), Pharos® kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLT)

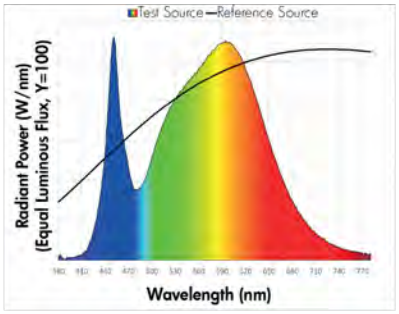
Chromaticity data

TM-30 - 4000K

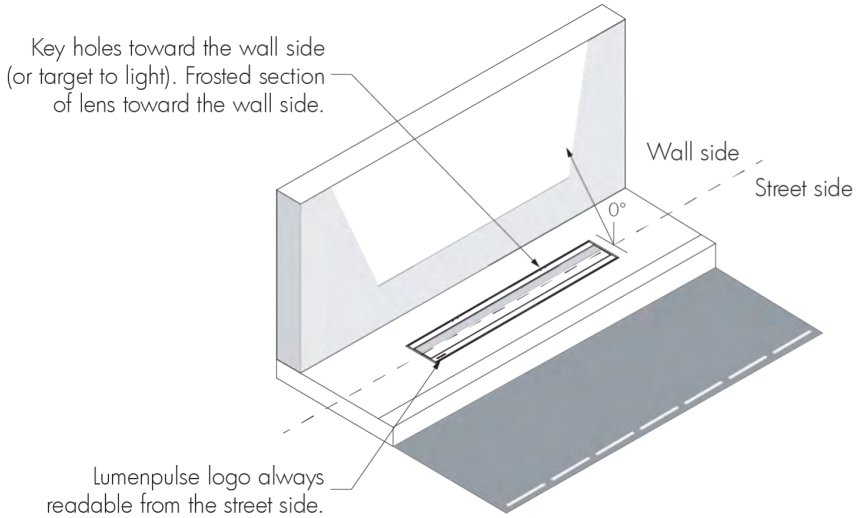
CCT	CIE		TM-30	
4000K	R_a	83	85	R_f
	R_9	14	96	R_g



Spectral Power Distribution



Optical chamber orientation



Cables (order separately)

LOILC - Leader cable for Lumenfacade Inground

LOILC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 10 ft, 25 ft or 50 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground leader cable specification sheet for details.

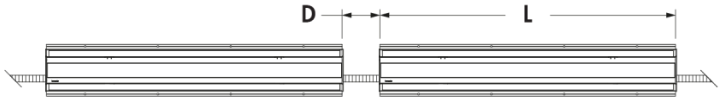
LOIJC - Jumper cable for Lumenfacade Inground

LOIJC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 2 ft, 4 ft or 10 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground jumper cable specification sheet for details.

Jumper cable length selection



D - distance between two fixtures
L - length of fixture

Add the length of one fixture to the distance between two fixtures: L + D. Order the next longest jumper cable available: 2 ft, 4 ft or 10 ft.

Example: if the distance between two 4 ft fixtures is 0.5 ft, L + D = 4.5 ft, therefore a 10 ft jumper cable is required.

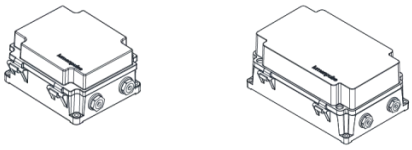
Electrical accessories (order separately)

LOI-JBOX - Lumenfacade Inground Junction Box

Lumenfacade Inground IP68 sealed junction box starter kit. Use for stand alone fixtures and/or first of run installations. The LOI-JBOX accessory does not fit in 12 in fixtures.

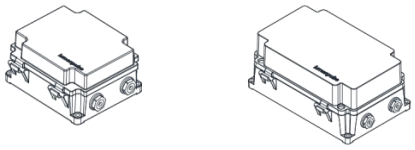
Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)



DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)



Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

Control systems (order separately)

LTN2 - Lumentone™ 2

Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit

The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID

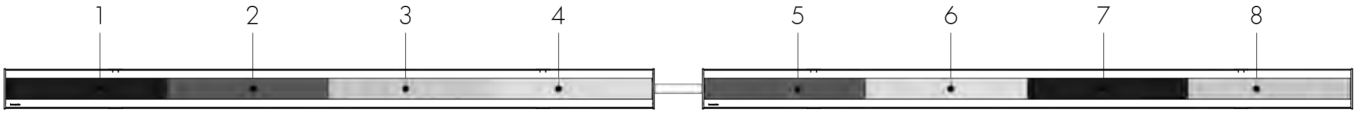
LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID

LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

Resolution details

DMX/RDM control, resolution per foot: each 12 in section is addressed independently
DMX addresses:



DMX/RDM control, resolution per fixture: each fixture is addressed independently
DMX addresses:

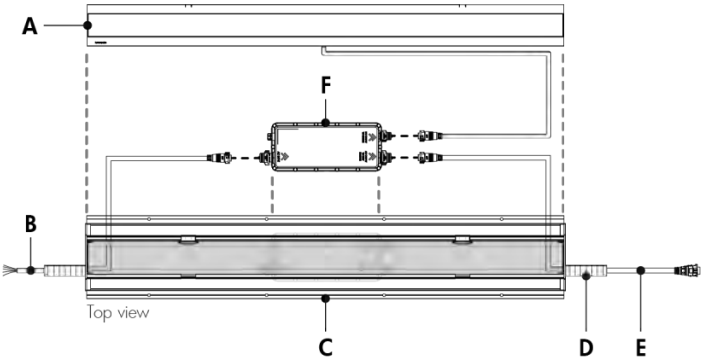
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical wiring diagrams

Wiring color code

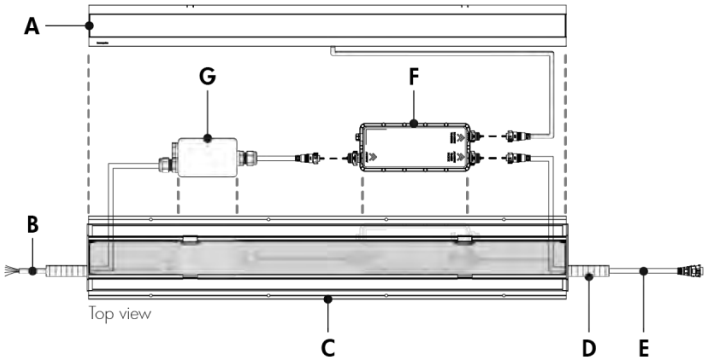
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

Typical installation with leader cable



A - Optical chamber
B - Leader cable (LOILC, order separately)
C - Blockout
D - Conduit (by others)
E - Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
F - PACBOX

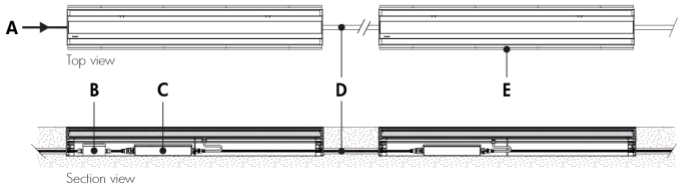
Typical installation with IP68 LOI-JBOX accessory



A - Optical chamber
B - Power and data input cable (by others)
C - Blockout
D - Conduit (by others)
E - Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
F - PACBOX
G - IP68 LOI-JBOX (order separately)

The IP68 LOI-JBOX accessory cannot be used with 12 in fixtures.

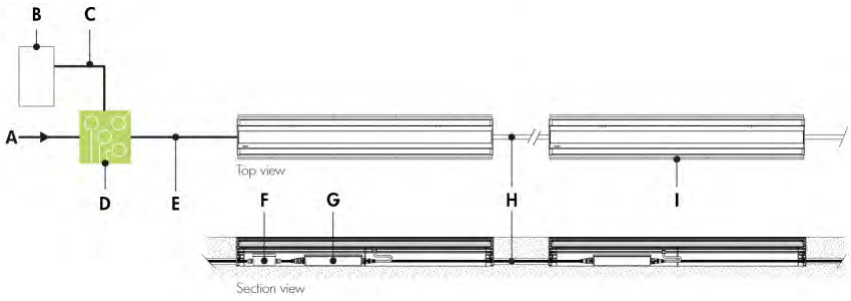
On/Off Control (NO)



A - Power input (120-277V, wiring by others)
B - IP68 LOI-JBOX (optional)
C - PACBOX
D - Jumper cable (LOIJC)
E - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

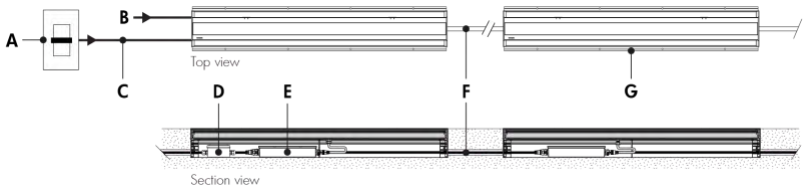
Lumentalk (LT)



A - Power input (100-277V AC, wiring by others)
B - Dimmer/controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DIM, -DMX, -TRIAC, -DALI)
E - Power wiring (by others)
F - IP68 LOI-JBOX (optional)
G - PACBOX
H - Jumper cable (LOIJC)
I - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

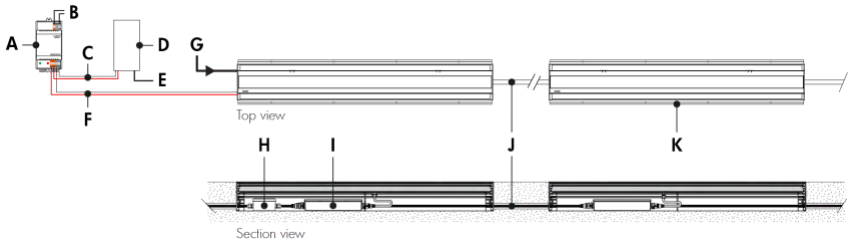
0-10V dimming (DIM)



A - Dimmer (by others)
B - Power input (120-277V, wiring by others)
C - Data wiring (by others)
D - IP68 LOI-JBOX (optional)
E - PACBOX
F - Jumper cable (LOIJC)
G - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3 mA per fixture, active dimmer (Current Source): 0.5 mA per fixture.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

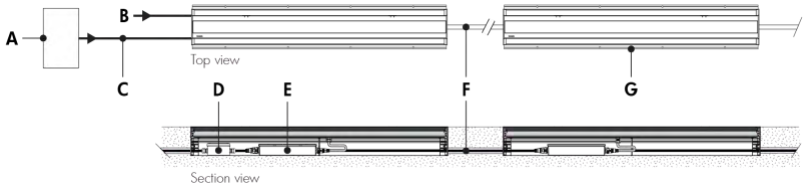
DALI dimming (DALI)



A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - DALI controller (by others)
E - Power input for DALI controller (wiring by others)
F - Data output to fixture (wiring by others)
G - Power input (120-277V, wiring by others)
H - IP68 LOI-JBOX (optional)
I - PACBOX
J - Jumper cable (LOIJC)
K - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

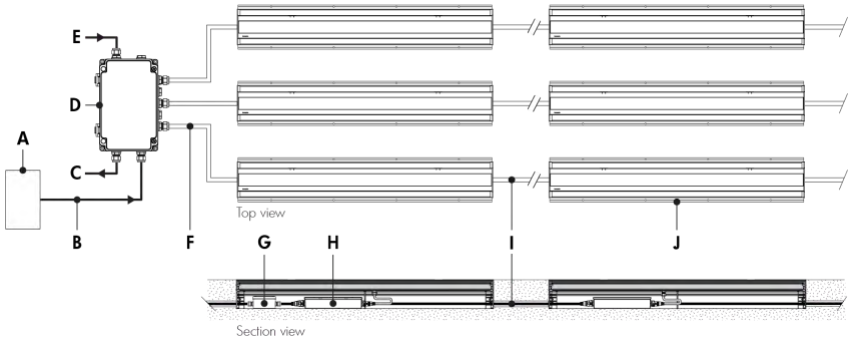
Lutron® EcoSystem® Enabled dimming (ES)



A - Lutron® EcoSystem® controller (by others)
B - Power input (120-277V, wiring by others)
C - Data wiring (by others)
D - IP68 LOI-JBOX (optional)
E - PACBOX
F - Jumper cable (LOIJC)
G - Lumenfacade Inground

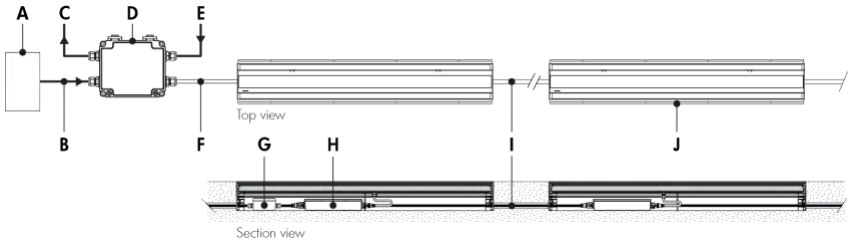
- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Each Lutron® EcoSystem® enabled fixture has its own address; for the example shown, there are a total of 2 EcoSystem® addresses.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

Star Layout (DMX/RDM)



A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (120-277V, wiring by others)
F - Leader cable (LOILC)
G - IP68 LOI-JBOX (optional)
H - PACBOX
I - Jumper cable (LOIJC)
J - Lumenfacade Inground

Daisy Chain Layout (DMX/RDM)



A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120-277V, wiring by others)
F - Leader cable (LOILC)
G - IP68 LOI-JBOX (optional)
H - PACBOX
I - Jumper cable (LOIJC)
J - Lumenfacade Inground

Maximum Run of Fixtures, Lumenfacade® LOI ASHRAE White & Static Colors 5 W/ft

Voltage	**120/277V**
Maximum Run of Fixtures*	128ft

Maximum Run of Fixtures, Lumenfacade® LOI RO White & Static Colors 8.5 W/ft

Voltage	**120/277V**
Maximum Run of Fixtures*	120ft

Maximum Run of Fixtures, Lumenfacade® LOI HO White & Static Colors 15.25 W/ft

Voltage	**120/277V**
Maximum Run of Fixtures*	68ft

Based on 15A maximum, 50ft leader cable.
*Example: 120V = 120ft maximum run of end to end fixtures (30 fixtures maximum for 4ft LOI RO).

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 48 in fixtures.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.
- Each fixture requires 1 DMX address.
- 1% minimum dimming value.
- ASHRAE version (not available for 12 in fixture lengths): 5 W/ft; Regular Output version: 8.5 W/ft; High Output version: 15.25 W/ft.

How to order

Housing [1] [4] [5]	Voltage	Length	Color and Color Temperature [6]	Optics	Tilt Setting [10] [11]	Optical Option	Control	Options
LOI ASHRAE Lumenfacade™ Inground, 5 W/ft ASHRAE compliant [2] [3] **LOI RO** Lumenfacade™ Inground, Regular Output, 8.5 W/ft [3] **LOI HO** Lumenfacade™ Inground, High Output, 15.25 W/ft [3]	**120/277** 120-277 volts	**12** 13 1/16 in (7.5 lbs) [5] **24** 25 1/16 in (15.3 lbs) **36** 37 1/16 in (21.4 lbs) **48** 49 1/16 in (27 lbs)	**22K** 2200K **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **RD** Red [7] **GR** Green [7] **BL** Blue [7]	**WW** Asymmetric Wallwash [8] **8x8** 8° x 8° [8] [9] **10x10** 10° x 10° [8] [9] **10x30** 10° x 30° [8] **10x60** 10° x 60° [8] **10x90** 10° x 90° [8] **15x25** 15° x 25° [8] **30x30** 30° x 30° **30x60** 30° x 60° **35x35** 35° x 35° **50x80** 50° x 80° **60x60** 60° x 60° **80x80** 80° x 80° **90x90** 90° x 90°	**TS2.5** 2.5 degrees **TS0** 0 degrees **TS5** 5 degrees **TS20** 20 degrees	**INTL** Internal louver [12]	**NO** On/Off control **LT** Lumentalk [13] **DIM** 0-10V dimming **DALI** DALI dimming **ES** Lutron® EcoSystem® Enabled dimming **DMX/RDM** DMX/RDM enabled [14]	**ASL** Anti-slip lens **CE** CE (European certification) [15]

Notes:

1. A Lumenfacade Inground fixture includes one optical chamber (LOIC), one power and control box (PACBOX) and one recessed blockout (RBO). The LOIC, PACBOX and RBO are provided according to the output/color, length and control configuration.
2. ASHRAE version not available for 12 in fixture lengths.
3. Consult factory for products that are BAA-approved (Buy America.n Act).
4. Consult the installation instructions to plan all aspects of the fixture installation.
5. Power consumption is typically 20% higher for 12 in fixture lengths.
6. Consult factory for availability of static Royal Blue, 6500K and 90+ CRI.
7. Static colors made to order 8-10 weeks.
8. 8x8, 10x10, 10x30, 10x60, 10x90, 15x25 and WW distributions come with a half-frosted lens to bring light low on the wall for grazing applications. Clear lens also available, consult factory.
9. For best results use with HO fixtures at a 6 in setback from surface. Contact factory for application support.
10. Do not specify a tilt setting for the asymmetric wallwash option. The asymmetric wallwash optic is factory set with a 2.5 degree tilt.
11. Tilt setting is factory set and cannot be adjusted in the field.
12. The addition of an internal louver will affect beam distribution. Consult factory for application support.
13. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
14. A control box (CBX) and LumenID (LID) must be specified.
15. Consult European specification sheet and installation instructions for CE wiring information.