II. B.

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Architectural Review Board Staff Report

Project type: Site Development Section Plan

Meeting Date: November 10, 2011

From: Kristian Corbin, Project Planner

Location: Spirit Trade Center, Lot 12D

Applicant: Pets and Company, Feeler Scheer Architects

Description: **Spirit Trade Center, Lot 12D (Pets and Company):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architects Statement of Design for a 2.01 acre "LI" Light Industrial District – zoned property located a half mile southwest of the intersection of Chesterfield Airport Road and Trade Center Boulevard.

PROPOSAL SUMMARY

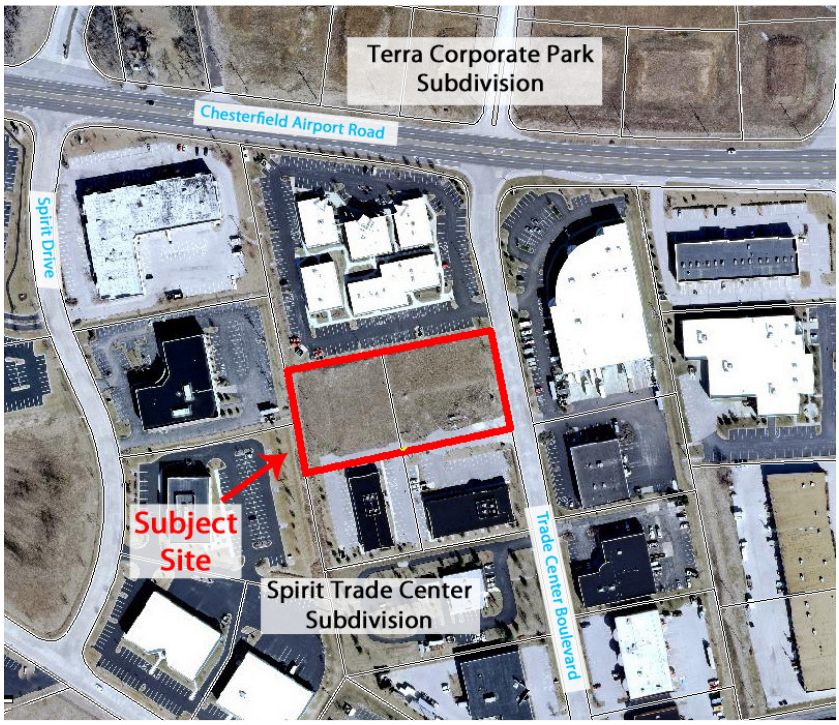
The request is for a twenty-seven (27) foot tall 10,297 square foot pet kennel located on Lot 12D of the Spirit Trade Center subdivision. The subject site is 2.018 acres in size and zoned "LI" Light Industrial District governed under the terms and conditions of City of Chesterfield Zoning Ordinance 1003.152. The exterior building materials will be comprised of stone veneer and E.F.I.S. The roof will be comprised of architectural fiberglass shingles.

HISTORY OF SUBJECT SITE

Lot 12D is part of the Spirit Trade Center Development which was zoned "M3" Planned Industrial District by St. Louis County Ordinance 13,935 in 1988. In 1992, the City of Chesterfield approved Ordinance 656 to reduce the road right-of-way for Edison Avenue.

The boundary of the "M-3" Planned Industrial District was changed via City of Chesterfield Ordinance 1156 on April 15, 1996. Ordinance 1156 amended St. Louis County Ordinance 13,935 and City of Chesterfield Ordinance 656 and repealed City of Chesterfield Ordinance 870. On September 15, 1997, the City of Chesterfield adopted Ordinance 1312 which amended Ordinance 1156 allowing for fraternal organizations within the established District. On July 20, 1998, the City of Chesterfield adopted Ordinance 1430 which reduced the side yard setback for 660 Goddard Avenue. The side yard setback changed from ten (10) feet to three (3) feet from the northern boundary and from ten (10) feet to nine (9) feet on the southern boundary.

On August 15, 2011, a Boundary Adjustment Plat was approved to remove a lot line consolidating the two (2) parcels into one (1) allowing for the subject site to meet minimum lot size requirement for the "LI" Light Industrial District.



STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationship

Addressed as Written ■ *Addressed with Modification* ☐ *Not Applicable* ☐

The subject site is located near the center of the subdivision surrounded by developed lots. It is access from Spirit Trade Center Boulevard.

B. Circulation and Access

Addressed as Written ☒ *Addressed with Modification* ☐ *Not Applicable* ☐

Access to the site is part of a shared entrance with Lots 12B and 12C. Parking is located along the southern length of the property adjacent to a walkway leading to the building entrance. There is a separation of pedestrian traffic and vehicular traffic proposed by the applicant.

C. Topography

Addressed as Written ☒ *Addressed with Modification* ☐ *Not Applicable* ☐

The subject site is flat in nature. There are no significant changes in elevations throughout the site.

D. Retaining Walls

Addressed as Written ☐ *Addressed with Modification* ☐ *Not Applicable* ☒

There are no proposed retaining walls for the subject site.

General Requirements for Building Design:

A. Scale

Addressed as Written ☒ *Addressed with Modification* ☐ *Not Applicable* ☐

The applicant is proposing a building of similar height and size as the adjacent structures. Elements such as residential type windows, gable roofs, low fences, and large overhangs are proposed to provide a sense of human scale.

B. Design

Addressed as Written ☒ *Addressed with Modification* ☐ *Not Applicable* ☐

The overall design of the building differs from the surrounding properties. The design features a gable roof which is not present on the surrounding properties. The applicant is proposing fiberglass shutters around the windows. Materials will be comprised of a stone veneer and E.F.I.S. Below is a series of photos of the adjacent properties.


View looking north


View looking south


View looking east


View looking west

C. Materials and Colors:

Addressed as Written ☒ *Addressed with Modification* ☐ *Not Applicable* ☐

The structure features masonry and E.I.F.S. to coordinate with the surrounding structures and a warm color palette.

D. Landscaping Design and Screening

Addressed as Written ☒ *Addressed with Modification* ☐ *Not Applicable* ☐

The trash enclosure will be screened with matching building colors and materials. The transformer will be screened with landscape plantings.

E. Signage

Addressed as Written ☐ *Addressed with Modification* ☐ *Not Applicable* ☒

Signage is not submitted for approval at this time. Signage will be reviewed against the Zoning Ordinance and will be approved by Staff.

F. Lighting

Addressed as Written ■ *Addressed with Modification* ☐ *Not Applicable* ☐

Site Lighting will be comprised of recessed fixtures on the building, Wall fixtures along the façades and decorative lighting for the dog park. Lighting is under review by Staff at this time for compliance with City of Chesterfield Lighting Ordinance.

Use Type: Commercial and Industrial Architecture
Access: The trash enclosure is located near the rear of the site away from the parking area.
Exterior Elements: Addressed above in the Requirements for Building Design.
Landscaping and Screening: Roof top equipment shall be screened by parapets. Ground equipment is proposed to be screened with landscape plantings.
Scale: Addressed above in the Requirements for Building Design.
Site Design: Building equipment and utilities will be located and screened to minimize visibility from the street and neighboring properties.

DEPARTMENTAL INPUT

Staff is reviewing the Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for conformance with the City of Chesterfield Zoning Ordinance Section 1003.152 "LI" Light Industrial District, and all other applicable Zoning Ordinance Requirements. Staff request action on the Site Development Section Plan for Spirit Trade Center, Lot 12D (Pets and Company).

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

1) "I move to forward the Site Development Section Plan, Landscape Plan and Architectural Elevations for Spirit Trade Center, Lot 12D (Pets and Company), as presented, with a recommendation for approval (or denial) to the Planning Commission."

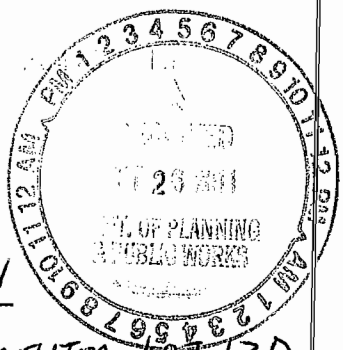
2) "I move to forward the Site Development Section Plan, Landscape Plan and Architectural Elevations for Spirit Trade Center, Lot 12D (Pets and Company), to the Planning Commission with the following recommendations…"

Spirit Trade Center, Lot 12D (Pets and Company)
Architectural Review Board
November 10, 2011

Attachments

1. Architectural Review Packet Submittal

City of Chesterfield



ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 10/19/11

Project Title: PETS & COMPANY **Location:** SPIRIT TRADE CENTER LOT 20

Developer: GUNDAKER **Architect:** FEELER SCHEER ARCHITECTS **Engineer:** STOCK &

PROJECT STATISTICS:

Size of site (in acres): 2.018 **Total Square Footage:** 10,297 **Building Height:** 27'-0"

Proposed Usage: PET KENNEL

Exterior Building Materials: STONE; E.I.F.S., SMOKED GLASS, FIBERGL SHINGLES

Roof Material & Design: FIBERGLASS ARCHITECTURAL SHINGLE, MANSARD ROOF

Screening Material & Design: MANSARD ROOF

Description of art or architecturally significant features (if any): CORNER ENTRY WITH SIMULATED WRAP AROUND PORCH

ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

- [X] Color Site Plan with contours, site location map, and identification of adjacent uses.
- [X] Color elevations for all building faces.
- [X] Color rendering or model reflecting proposed topography.
- [X] Photos reflecting all views of adjacent uses and sites.
- N/A [ ] Details of screening, retaining walls, etc.
- N/A [ ] Section plans highlighting any building off-sets, etc. (as applicable)
- [X] Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- [X] Landscape Plan.
- [X] Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- [X] Large exterior material samples. (to be brought to the ARB meeting)
- N/A [ ] Any other exhibits which would aid understanding of the design proposal. (as applicable)
- [X] Pdf files of each document required.

Architectural Statement

From Attachment A

10. General Requirements for Site Design. All projects should address the following requirements as directed by the City of Chesterfield:

a. Site Relationships: Developments should emphasize site relationships to provide a seamless transition between phases of a project, which are compatible with neighboring developments, and which also provide a transition from the street to the building.

Desirable Practices

- Provide safe pedestrian movement between elements
- Provide public plazas, courtyards, assembly areas etc.
- Incorporate scenic views, fountains, public art etc within outdoor spaces.
- Consider climate, solar angles, and outdoor activities when designing elements within outdoor spaces.

The building is set back from the street with green space including a fenced in dog yard. The parking has been held to the south side for safe access to the building. The building is accessed under a deep overhang which will protect the public from the elements and will provide good solar protection of the lobby.

Undesirable Practices

- Site design that impairs or interferes with other properties or developments
- Excessive noise, lighting, glare
- Delivery zones, trash enclosures, storage areas, transformers and generators that are not screened and are visible by the public
- Above ground public utilities

The proposed building is one story with a gable roof. This will allow sufficient site lines from the street and the existing surrounding buildings. The parking lot and dog park lighting will maintain minimum heights with sharp cutoff so no light pollution will be produced. The trash will be located in an enclosure that will match the design of the building so that it's not visible to the public.

b. Circulation System and Access: Circulation systems shall be designed to avoid conflicts between vehicular, bicycle, and pedestrian traffic to and from buildings on the site. Circulation patterns shall be safe, obvious, and simple as described in the standards below.

Bicycle Circulation

- Provide bicycle parking in highly visible locations.
- Provide racks with a locking opportunity.

Bicycle parking can be located under the overhang of the building, this will allow bicycles to be separated from the automobile parking.

Pedestrian Circulation

- Give precedence to pedestrian circulation over vehicular circulation.
- Provide pedestrian access from large parking areas.
- Design open and attractive circulation systems between Buildings, blocks, and adjacent developments.
- Utilize materials, textures and/or colors to improve safety and visibility at points of conflict with vehicular routes.
- Surface routes with durable materials in order to eliminate "short cuts" which damage landscape areas.

Sufficient space has been left to the east, with access both inside and outside of the building. The large dog park will located to the west of the building. The parking at the south will be a long linear arrangement with good access to the entire property.

Vehicular Circulation

- Provide accommodations for public transportation as directed by the City of Chesterfield and transportation agencies.

The building is easily accessed from Trade Center Drive which allows for public transportation access.

Parking

- Encourage rear and side parking areas. Front parking may be considered if appropriate landscaping and setbacks are incorporated into the parking design.
- Provide landscaped separation of parking areas and buildings and create a landscaped foreground for buildings.

  Parking will be located to the south side off of the existing curb cut which currently feeds the existing buildings. This will minimize disruption to Trade Center Drive.

Pedestrian Orientation

- Establish areas with visual interest such as outdoor dining areas or outdoor seating areas which face the street and pedestrian ways.

- Provide open spaces, such as covered walkways, courtyards and plazas.
- Provide connections to public transportation, bus stops, future light rail stations and commuter lots.

The pedestrian orientation of the porch will face the south east, but will be visible from the north east also. The overhang with recessed lighting will create a visual interest. The large overhang at the porch will provide for protected open space.

c. **Topography**:

- (1)Utilize topography for screening, buffering, and transition between uses and developments.
- (2) Retain the natural slope and topography while minimizing changes to the existing topography. Avoid abrupt or unnatural appearing grading design.
- (3) Round proposed cut and fill slopes, both horizontally and vertically.

Existing site is flat. The proposed site will include rolling hills and paths within the dog park. The east end of the site will be maintained as existing.

d. **Retaining Walls**:

- (1)Minimize the height and length of retaining walls. Screen with appropriate landscaping, where appropriate.
- (2) Incorporate design elements of other architectural or natural features of the project.
- (3) Use terracing as an alternative to tall or prominent retaining walls, particularly in highly visible areas on hillsides.
- (4) Use stone, masonry or textured concrete walls or other similar materials.
- (5) Use of Timber Tie walls is not permitted.

N/A

11. **General Requirements for Building Design**: These requirements shall apply to all structures.

a. **Scale**:

Building Scale

- Demonstrate through elevations and renderings that the size, proportion, design and orientation of buildings are compatible with the adjacent or predominant development in the area.

- Provide transitions between buildings and uses to visually reduce differences in scale and proportion.

Refer to elevation. The building is of similar scale to surrounding buildings and there also is sufficient separation to translate any minimal differences in height.

Human Scale

- Design to achieve a sense of human scale through the use of wall insets, balconies, window projections or other architectural elements.

Residential type windows, gable roofs, low fences, & large overhangs provide a good sense of human scale.

Generic Scale

- Respect and/or improve the rhythm established by adjacent or predominant buildings and development.
- Coordinate the actual and apparent height of adjacent structures. Adjust apparent height by placing window lines, belt courses and other horizontal elements in a pattern that complements the same elements on neighboring buildings.

The overall scale will match adjacent structures. Masonry Finish and similar window heights will also tie the two adjacent structures to ours.

b. Design:

- (1)Design and coordinate all façades with regard to color, types and numbers of materials, architectural form and detailing.
- (2) Avoid linear repetitive streetscapes.
- (3) Avoid stylized, "corporate" and/or franchise designs that use the building as advertising.
- (4) Provide architectural details particularly on façades at street level.
- (5) Encourage art elements such as wall sculptures, murals, and artisan created details etc throughout a project.
- (6) Encourage designs that enhance energy efficiency.
- (7) Encourage the use of environmentally conscious building techniques and materials.
- (8) Provide entry recesses, plazas, roof overhangs, wall fins, projecting canopies or other similar features indicating the building's entry points while providing protection.
- (9) Paint and trim temporary barriers/walls to complement the permanent construction excluding tree protection fencing.

- (10) Screen rooftop equipment on all visible sides with materials that are an integral part of the architecture. Parapet walls or screen walls shall be treated as an integral part of the architecture and shall not visually weaken the design of the structure.

The façade will include masonry and EIFS to coordinate with surrounding buildings. Besides a small sign there will not be any advertising on the building. Large overhangs and EIFS will provide for an energy efficient building with protection from the elements. As for roof top equipment the center of the building will have a flat roof surrounded by gables, so no equipment will be seen from the ground.

c. Materials and Colors:

Desirable Practices

- Use compatible colors, materials and detailing on a building as well as with adjacent buildings and properties. Encourage the use of integral color where practical.
- Utilize durable materials
- Utilize contrasting paving surfaces for pedestrian access in large paved areas.

With the use of masonry, warm organic colors will tie in nicely with surrounding buildings. The parking lot will be asphalt to match all surrounding buildings, with entry material being concrete for contrast between the automobile and pedestrian area.

Undesirable Practices

- False or decorative façade treatments, inconsistent adornment and overly frequent material changes should be avoided.
- Highly reflective materials and prefabricated buildings are discouraged.

N/A

d. Landscape Design and Screening:

Development Landscaping

- Use a consistent theme throughout each development. Variations may be used to create distinction between spaces but such themes shall be internally consistent.
- Use landscape design to accentuate significant views.
- Incorporate or include landscaped areas throughout the site design. Tree and shrub plantings should be grouped together to create strong accent points.

- Incorporate existing landscape elements into design. Mature trees, tree groupings and rock outcroppings shall be considered as design determinants.
- Provide for screening of unfavorable views either to or from the subject site.

The existing site has no trees or landscaping. The new design will include grasses, fences, trees, shrubs, and pedestrian / dog pathways.

Building Landscaping

- Incorporate landscaping into building design.
- Incorporate landscaped setbacks to buffer adjacent buildings and uses and to create separation between the building and the street.
- Include works of art in landscape plans.

Building is set back from street with grass and shrubs which will further buffer the building from the street.

Parking Area Landscaping

- Protect landscape materials from pedestrian or motor traffic with curbs, tree guards, or other devices.
- Enhance paved access, parking, and circulation spaces with berms, islands or other landscaped spaces. Provide trees and tree groupings.
- Screen parking structures with dense landscaping on all sides.

N/A

Walls and Fences

- Design sound walls, masonry walls, and fences to minimize visual monotony through changes in plane, height, material or material texture.
- Present fencing design and materials in the Architect's Letter of Intent submitted for review. Chain link fencing is discouraged; additionally, chain link fencing with wood or any type of inserts or lining is not considered suitable.

Fence will be dark iron fence similar to existing.

Screening •

- Use screening materials for exterior trash and storage areas, service yards, loading docks and ramps, wood service poles, electric and gas meters, irrigation back flow prevention devices, and transformers that are substantial, durable, opaque, and well designed.
- Integrate the design of fencing, sound walls, carports, trash enclosures, rooftop screening, and similar site elements into the building design and construct with similar materials.

The trash enclosure will be screened with matching building colors and materials. The electric transformer will be screened with landscape planting .

e. Signage:

- Signs and sign packages are reviewed through a separate process. All signs shall adhere to the City of Chesterfield Code and/or the Sign Package for the site. For existing buildings under review for additions or alterations the following shall apply:
- (1) Integrate sign locations into the building or development design theme.
- (2) New sign locations proposed for existing buildings shall be compatible with existing building signage locations. Where no sign package exists, unifying elements such as size, shape, or materials shall be used to create continuity.

Will comply in the signage package.

f. Lighting:

- Site Lighting is reviewed through a separate process. All lighting including architectural lighting and building light fixtures shall adhere to the City of Chesterfield Code.

Will comply

Commercial and Industrial Architecture

Access

- Locate service and loading areas away from public streets and out of the main circulation system and parking areas. Provide access for service vehicles, trash collection and storage areas from alleys when possible. If not possible, utilize the street with the least traffic volume and visual impact.

Will comply

Exterior Elements

- See General Requirements for Building Design p. 3.

Will comply

Landscaping and Screening

- Screen utility meters, and surface transformer switching pads.

Will comply

Scale

- See General Requirements for Building Design p. 3.

Will comply

Site Design

Design and locate building equipment and utilities to minimize visibility from public streets, surface parking lots, and neighboring properties.

Will comply

12. Specific Requirements for the Chesterfield Valley. These requirements for Chesterfield Valley are to be applied to commercial and industrial development in addition to addressing all other applicable design standards in the City of Chesterfield Code.

Facades

Utilize architectural elements from the Front Façade on the side and rear of the structure.

- Utilize accent lighting and avoid flood lighting for facades of buildings facing I-64/US 40.

N/A

- Screen trash enclosures and construct with materials consistent to the building.

Will Comply

Storage

- Screen outdoor storage of goods, equipment or automobiles for sale or service from I-64/US 40.

N/A

Utilities

- Install all new and existing site utilities underground.

Will Comply

Parking

- Locate parking primarily to the side or rear of any building facade facing I-64/US 40 or along North Outer 40.

N/A

- Screen loading areas and construct with material Consistent to the building.

Will Comply

1 FRONT ELEVATION
Scale: 1/8" = 1'-0"

STATE OF MISSOURI
STEVEN MERLE PEEGER
NUMBER A-005008
REGISTERED ARCHITECT

6/3/11

2 RIGHT ELEVATION

Scale: 1/8" = 1'-0"

3 BACK ELEVATION
Scale: 1/8" = 1'-0"

STATE OF MISSOURI
STEVEN A. MERLE FEELER
NUMBER A-005098
REGISTERED ARCHITECT
10/31/11

OCT 31

4 LEFT ELEVATION
Scale: 1/8" = 1'-0"

STATE OF MISSOURI
STEVEN MERLE FEELER
NUMBER A-005098
REGISTERED ARCHITECT

10/31/14

SITE DEVELOPMENT SECTION PLAN

OF PROPOSED "ADJUSTED LOT 12A OF THE BOUNDARY ADJUSTMENT PLAT OF LOTS 12A AND 12D OF THE RESUBDIVISION PLAT OF LOT 12 OF THE BOUNDARY ADJUSTMENT PLAT OF LOTS 12 AND 13 OF SPIRIT TRADE CENTER PLAT TWO AS RECORDED IN PLAT BOOK 354, PAGES 308-309" AS RECORDED IN PLAT BOOK _____ PAGE _____ LOCATED IN U.S. SURVEY 419 AND 1010, TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC SURVEY BY STOCK & ASSOCIATES CONSULTING ENGINEERS, INC.
2. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
3. NO GRADE SHALL EXCEED 3:1 SLOPE.
4. MIN. LOT AREA (1003.165.4.A.): 43,000 SF < 87,885 SF PROVIDED. O.K.
5. MIN. LOT WIDTH (1003.165.4.B.): 100' < 205.63' PROVIDED. O.K.
6. MAX. HT. (1003.165.4.C.): 35' > 27'-10" TO PEAK OF ROOF (10/24/2011 FSA). O.K.
7. PARKING CALCULATIONS:
   PARKING REQUIRED (1003.165.4.E.):
   KENNEL: 2.5 SP/1,000 GFA x 9,870 GFA = 25 SPACES
   PARKING PROVIDED:
   STANDARD 9'x19' = 24 SPACES
   HANDICAP = 2 SPACES
   TOTAL = 26 SPACES
8. OPENSPACE CALCULATIONS (ORD 2512, IV.19., 1003.152.4.D.):
   BUILDING FOOTPRINT (10/4/2011 FSA): 10,297 S.F.
   VEHICLE PAVEMENT (DRIVES, PARKING): 17,808S.F.
   TRASH ENCL: 168 S.F.
   SITE COVERAGE: 28,273 S.F.
   OPENSPACE: 87,885 - 28,273 S.F.= 59,812 SF
   OPENSPACE % 59,612/87,885 X 100 = 68% > 35% O.K.
9. F.A.R (1003.152.4.F.) = 9,870 GFA/87,885 SF SITE = 0.11 < 0.40. O.K.
10. GRADING AND STORM WATER PER M.S.D. AND THE CITY OF CHESTERFIELD, MISSOURI.
11. STORMWATER SHALL BE DISCHARGED AT ADEQUATE NATURAL DISCHARGE POINT.
12. NO STEP ALLOWED AT ACCESSIBLE ENTRANCE DOORS.
13. ALL ENERGY AND TELEPHONE DISTRIBUTION LINES SHALL BE INSTALLED UNDERGROUND, EXCEPT THOSE OVERHEAD DISTRIBUTION FEEDER LINES NECESSARY TO SERVE THE SUBDIVISION AND IN LOCATIONS AS APPROVED BY THE CITY.
14. APPROVAL OF SIGN LOCATIONS DOES NOT CONSTITUTE SIGN APPROVAL. SIGN APPROVAL IS A SEPARATE PROCESS.
15. PLANS SUBJECT TO CHANGE PENDING AGENCY REVIEWS AND FINAL ENGINEERING.
16. BE ADVISED, A FLOOD PLAIN DEVELOPMENT PERMIT WILL BE REQUIRED PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PERMIT. AN ELEVATION CERTIFICATE WILL BE REQUIRED PRIOR TO RELEASE OF THE FUTURE GRADING SURETY.
17. BE ADVISED, MSD APPROVAL REQUIRED PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PERMIT.

C & M CREATIONS, LLC _____
In connection with a change of zoning for the following described property from

M3 _____ to LI _____
(prior zoning) (present zoning)

C & M CREATIONS, LLC _____ the owner(s) of the property
(Name of Owner(s))
shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter 1003.

_____ LIGHT INDUSTRIAL _____ of the City of Chesterfield
(applicable subsection) (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 Commission, or voided or vacated by order of the City of Chesterfield Council.

(Signature)_____

(Name Typed):_____

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

On this _____ day of _____, A.D., 2011, before me personally appeared _____, to me known, who, being by me duly sworn in, did say
(Officer of Corporation)
that say he/she is the _____ of C & M CREATIONS, LLC _____,
(Title) (Name of Corporation)
a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporate seal of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the said _____ acknowledged said instrument to be the free act and deed of said corporation.
(Officer of Corporation)

IN WITNESS WHEREOF, I have signed and sealed the foregoing

_____
Notary Public

_____
Print Name

My commission expires: _____

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the_____day of_____ of 2011, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance Number 200, as attested to by the Planning and Development Services Director.

_____
Planning and Development Services Director
City of Chesterfield, Missouri

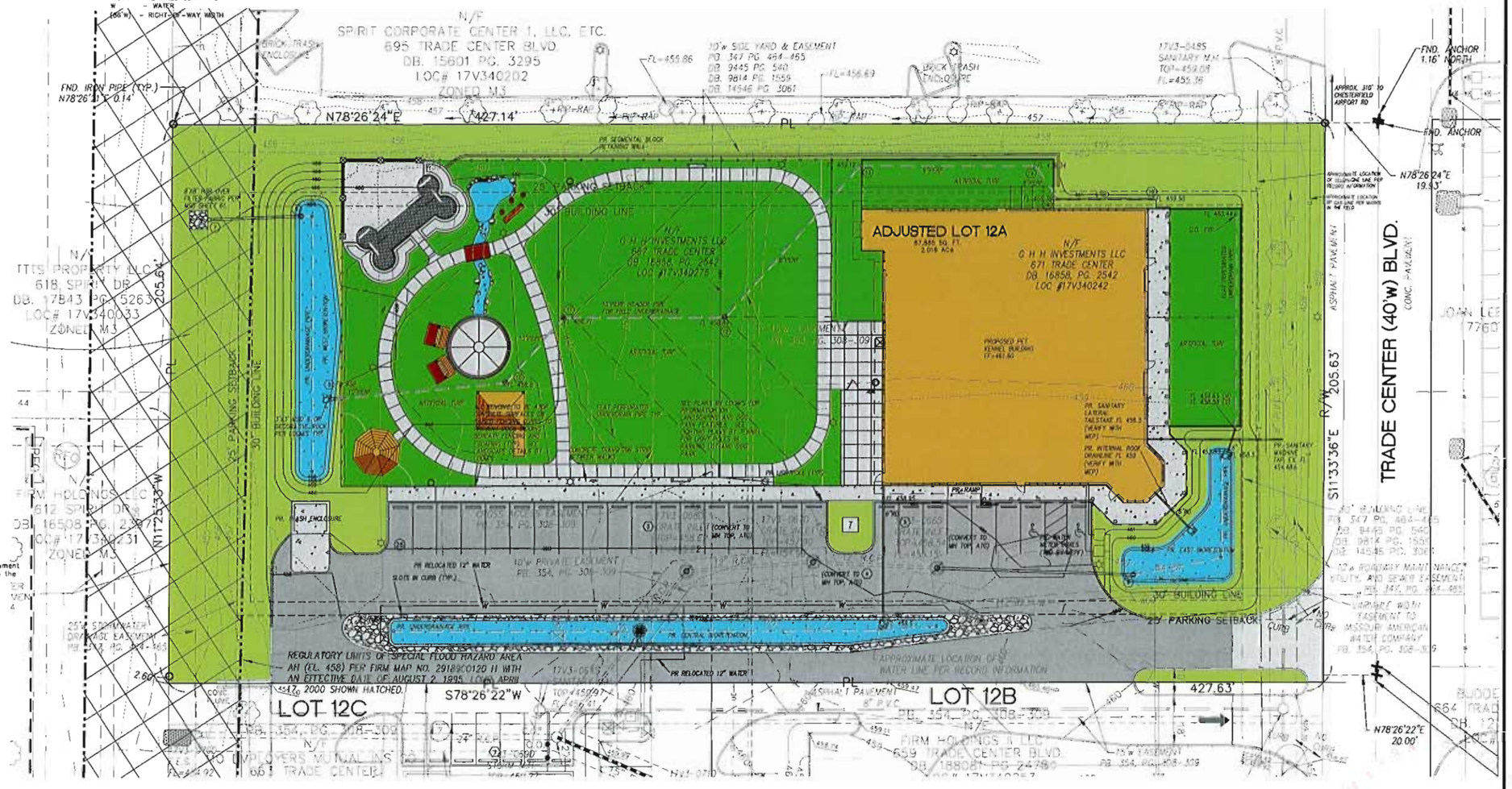
_____
Judith Roggler, City Clerk
City of Chesterfield, Missouri

ABBREVIATIONS

C.O. - CLEANOUT
DB. - DEED BOOK
E - ELECTRIC
FL - FLOWLINE
FT - FEET
FND. - FOUND
G - GAS
M.H. - MANHOLE
N/F - NOW OR FORMERLY
PB. - PLAT BOOK
PG. - PAGE
P.V.C. - POLYVINYL CHLORIDE PIPE
R.C.P. - REINFORCED CONCRETE PIPE
SQ. - SQUARE
T - TELEPHONE CABLE
V.C.P. - VETRIFIED CLAY PIPE
W - WATER
(60'R) - RIGHT-OF-WAY WIDTH

PERTINENT DATA

OWNER UNDER CONTRACT = C&M CREATIONS
ZONING = LI
FIRE DISTRICT = MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT = ROCKWOOD R6
SEWER DISTRICT = M.S.D.
WATER SHED = BONHOMME CREEK
WATER SERVICE = MO-AMERICAN
GAS SERVICE = LACLEDE GAS COMPANY
ELECTRIC SERVICE = AMEREN
PHONE SERVICE = ATT



SURVEYOR'S CERTIFICATION

This is to certify that Stock and Associates Consulting Engineers, Inc. has prepared this Site Development Section Plan from an actual survey. The information shown is a correct representation of all existing and proposed land divisions

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

Daniel Ehlmann, Missouri L.S No. 2215

PROPERTY DESCRIPTION

A tract of land being Lots 12A and 12D of the Resubdivision Plat of Lot 12 of the Boundary Adjustment Plat of Lots 12 and 13 of Spirit Trade Center Plat Two as recorded in Plat Book 354, Pages 308 and 309 located in U.S. Survey 419 and 1010, Township 45 North, Range 3 East of the Fifth Principal Meridian, City of Chesterfield, St. Louis County, Missouri being more particularly described as follows:

Beginning at the intersection of the west line of Trade Center Boulevard, 40' wide with the south line of Lot 14 of Spirit Trade Center Plat Two, a subdivision according to the plat thereof recorded in Plat Book 347, page 464 of above said records, said point also being the northeastern corner of above said Lot 12A, from which a found iron pipe bears, South 78 degrees 26 minutes 21 seconds West 0.07 feet; thence southwardly along said west line, South 11 degrees 33 minutes 36 seconds East, 205.63 feet to the northeastern corner of Lot 12B of above said Resubdivision Plat; thence along the north line of Lots 12B and 12C of said Resubdivision Plat, South 78 degrees 26 minutes 22 seconds West, 427.63 feet to the east line of Lot 6 of Spirit Trade Center Plat One, a subdivision according to the plat thereof recorded in Plat Book 335, Pages 44 and 45 of above said records; thence along the east line of Lots 6 and 5 of said Spirit Trade Center Plat One, North 11 degrees 25 minutes 33 seconds West, 205.64 feet, to the northwestern corner of above said Lot 12D, from which a found iron pipe bears North 78 degrees 26 minutes 21 seconds East 0.14 feet, said point also being located on the south line of the aforementioned Lot 14 of Spirit Trade Center Plat Two of the above said records; thence along said south line North 78 degrees 26 minutes 24 seconds East, 427.14 feet to the Point of Beginning and containing 87,885 square feet or 2.018 acres more or less according to calculations performed by Stock and Associates Consulting Engineers, Inc. on July 27, 2011.

GRAPHIC SCALE
30 0 10 20 40 80
(IN FEET)
1 Inch = 20 ft.

ST. LOUIS COUNTY BENCHMARK

11-59: ELEV.-461.50
"U" ON BACK OF ROLLED CURB, 107' SOUTH OF CL OF CHESTERFIELD AIRPORT ROAD AND 13' WEST OF CL OF GODDARD AVENUE

SITE BENCHMARK

ELEV.-461.06
"RAILROAD SPIKE" IN TELEPHONE POLE 75' SOUTH OF CHESTERFIELD AIRPORT ROAD AND BETWEEN SPIRIT DRIVE AND TRADE CENTER DRIVE

PREPARED FOR:
C&M CREATIONS LLC
2055 HIGHWAY T
FORISTELL, MISSOURI 63348
ATTN: MEREDITH GOLDENHERSH
PHONE: 636-398-4934, CEL 636-697-3096
FAX: 636-698-4934
MEREDITHGOLDENHERSH@YAHOO.COM

FEELER SCHEER ARCHITECTS LLC
17259 WILD HORSE CREEK RD, SUITE 210
CHESTERFIELD, MO 63005
ATTN: MIKE LEHR
PHONE: 636-530-7362
FAX: 636-530-7363
MLEHR@FSASTL.COM

2 10/26/2011 CITY SUBMITTAL
1 10/20/2011 MSD SUBMITTAL

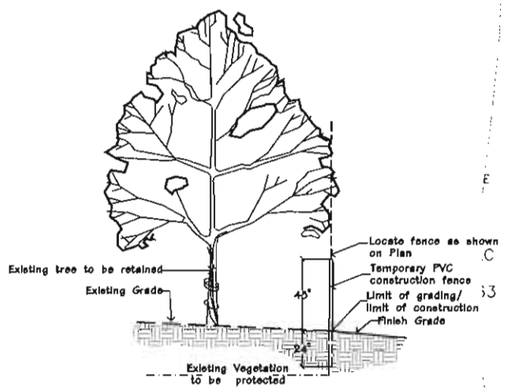
M.S.D. P# 26759-XX
BASE MAP # 17-V

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY NUMBER: 000996

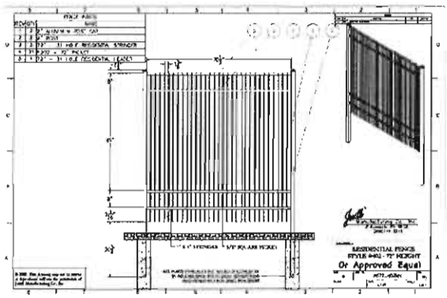
CLUB DOG
SITE DEVELOPMENT SECTION PLAN

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

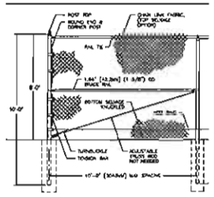
DRAWN BY:	DATE:	CHECKED BY:	DATE:	JOB NUMBER:	SHEET:
C.A.M.	10/04/2011	G.M.S.	10/04/2011	211-4810	SDSP 1



TREE PROTECTION DETAIL
n.t.e.

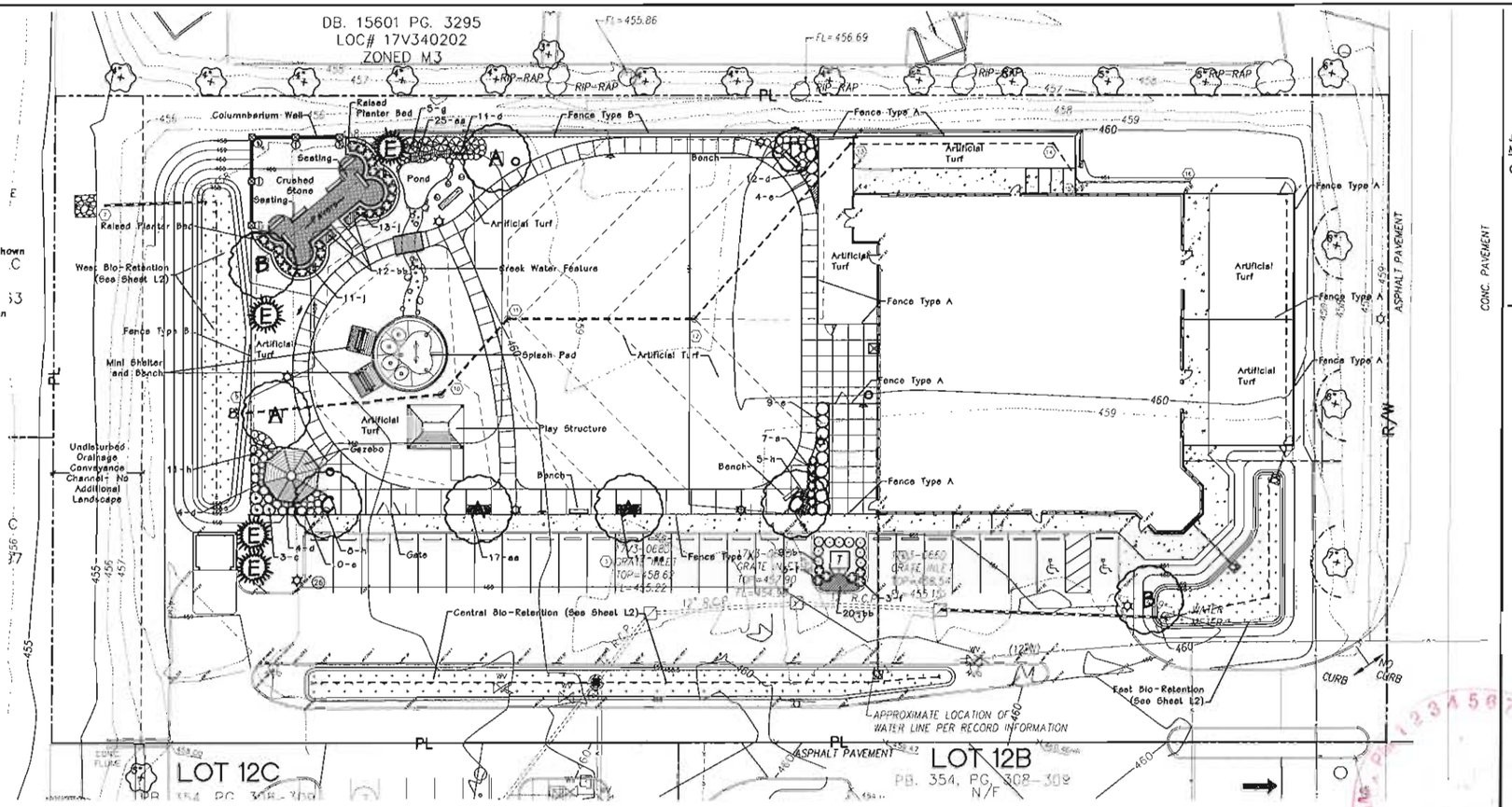


FENCE TYPE A
n.t.e.



BLACK VINYL CHAIN LINK FENCE
FENCE SECTION ELEVATION - ROUND END POSTS

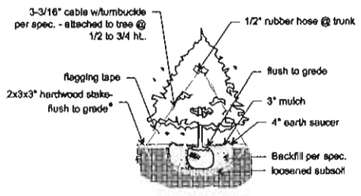
FENCE TYPE B
n.t.e.



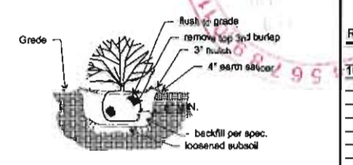
LANDSCAPE PLAN
SCALE 1" = 20'

PLANTING SCHEDULE								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	MATURE HEIGHT	GROWTH RATE	TYPE
A	4	Acer rubrum 'Red Sunset'	Red Sunset Maple	3"	B&B	45+	Fast	Deciduous
B	2	Plantanus x acerifolia	London Planetree	3"	B&B	45+	Fast	Deciduous
C	2	Quercus rubra	Red Oak	3"	B&B	45+	Med/Fast	Deciduous
D	1	Cercis canadensis	Redbud	2.5"	B&B	25-30'	Fast	Ornamental
E	4	Picea glauca	White Spruce	6' Ht.	B&B	30-40'	Med.	Evergreen
a	7	Berberis thunbergii 'Royal Burgundy'	Royal Burgundy Barberry	24"				
b	9	Euonymus alata 'Compacta'	Dwarf Burning Bush	24"				
c	3	Buddleia davidii 'Black Knight'	Black Knight Butterflybush	24"				
d	31	Juniperus chinensis sargentii	Sargent Green Juniper	24"				
e	23	Ilex x meserveae 'Mesog'	China Girl Holly	24"				
f	6	Cornus sericea 'Flaviramea'	Yellow Twig Dogwood	24"				
g	5	Forsythia x 'New Hampshire Gold'	New Hampshire Gold Forsythia	24"				
h	24	Rhus aromatica 'Gro-low'	Gro-low Sumac	24"				
i	24	Rosa x 'Radrazz'	Knock-Out Rose	24"				
aa	59	Sedum spurium 'Dragon's Blood'	Dragon's Blood Sedum	12" o.c.				
bb	32	Hemericallis x 'Stella de Oro'	Stella de Oro Daylily	18" o.c.				

General Notes:
1) All disturbed areas will be sodded.
2) In ground automatic irrigation system to be provided for non-bioretention landscape areas.
3) For Open Space Percentage see Civil Site Development Plan General Notes



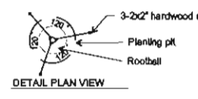
TYPICAL EVERGREEN PLANTING

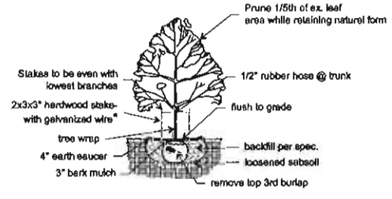


SCARIFY ROOT BALL OF ALL CONTAINER STOCK

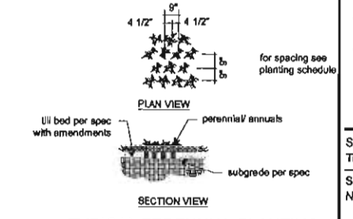
TYPICAL SHRUB PLANTING

- Staking should only be done when:
- Planting in soft, loose soils
- Root balls in sandy soils, or wet clay
- Trees located in an extremely windy location





CANOPY TREE PLANTING



TYPICAL PERENNIAL PLANTING

STATE OF MISSOURI
JERALD A. SAUNDERS
NUMBER LA-7
LANDSCAPE ARCHITECT
10/20/11
Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

C & M CREATIONS
Site Development Section Plan

Chesterfield, MO

Revisions:

Date	Description	No.
10-21-11	Submittal	1

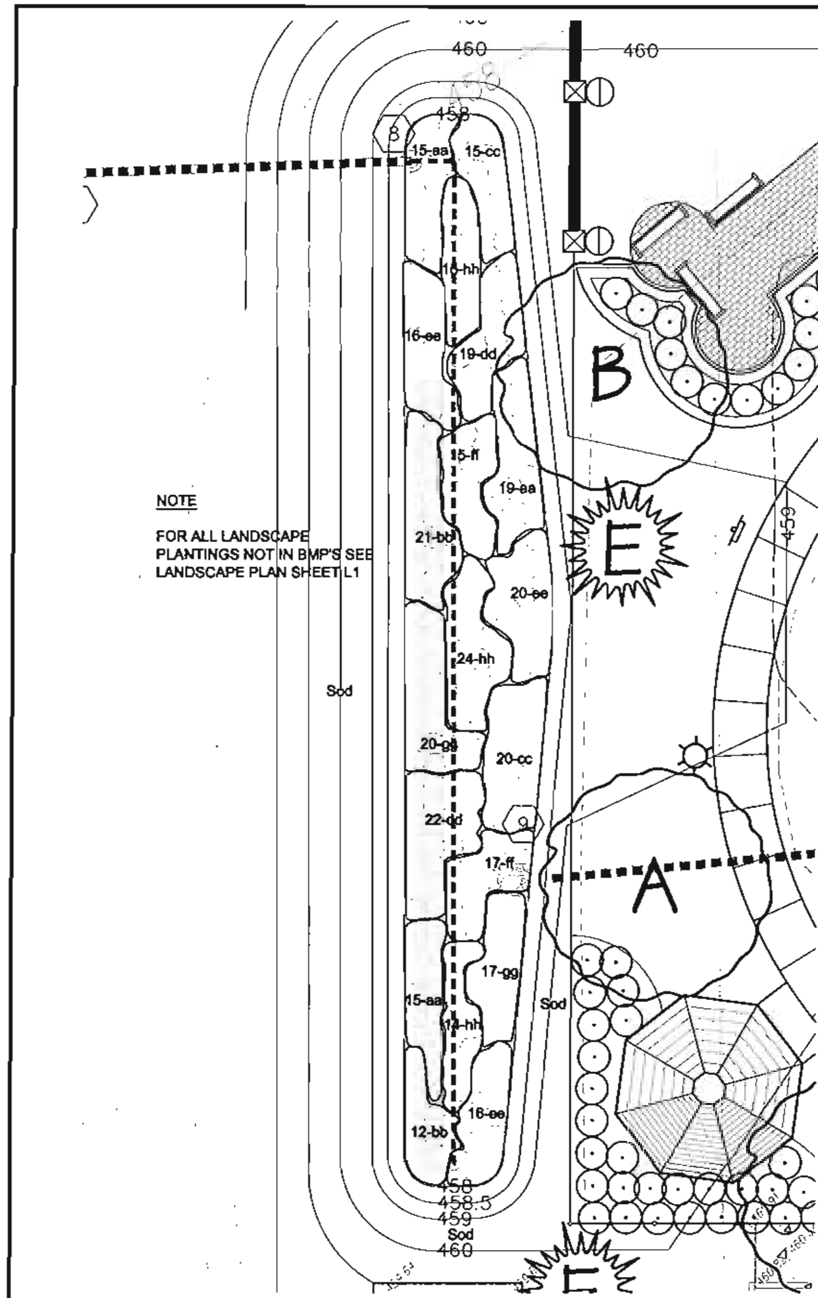
Drawn: JJ
Checked: RB

loomisAssociates
landscape-Architects/planners
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Plan

Sheet No: L1

Date: 10/04/11
Job #: 925.001

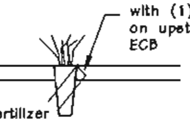


NOTE

FOR ALL LANDSCAPE PLANTINGS NOT IN BMP'S SEE LANDSCAPE PLAN SHEET L1

1/L2 WEST BIO-RETENTION PLAN

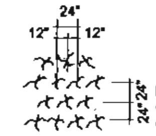
SCALE: 1/8"=1'-0"



Install plug through ECB, secure with (1) 6"x1"x6" staple on upstream edge through ECB

Place (1) 7-gram controlled release fertilizer tablet and (1) 7-gram mycorrhizae tablet prior to plant placement.

DEEP CELL PLUG INSTALLATION DETAIL



for spacing see planting schedule; group 12-24 plugs of same species.

PLAN VIEW

BMP PLUG SPACING DETAIL

BMP LANDSCAPE SCHEDULE

West Bio-Retention (See 1/L2)

PLANTING SCHEDULE					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
aa	49	Amsonia illustris	Shining Bluestar	2x2x5" DCP	24" O.C. - group in clusters of 12-24
bb	33	Aster novae-angliae	New England Aster	2x2x5" DCP	24" O.C. - group in clusters of 12-24
cc	35	Bouteloua curtipendula	Sideoats Grama	2x2x5" DCP	24" O.C. - group in clusters of 12-24
dd	41	Carex praegracilis	Tollway Sedge	2x2x5" DCP	24" O.C. - group in clusters of 12-24
ee	52	Carex shortiana	Shorts Sedge	2x2x5" DCP	24" O.C. - group in clusters of 12-24
ff	32	Hibiscus lasiocarpos	Rose Mallow	2x2x5" DCP	24" O.C. - group in clusters of 12-24
gg	37	Iris virginica	Southern Blue Flag Iris	2x2x5" DCP	24" O.C. - group in clusters of 12-24
hh	63	Schizachyrium scoparium	Little Bluestem	2x2x5" DCP	24" O.C. - group in clusters of 12-24

Overseed area with equal amounts of each species listed above of pure live seed at a rate of 4lbs per acre.

East Bio-Retention (See 2/L2)

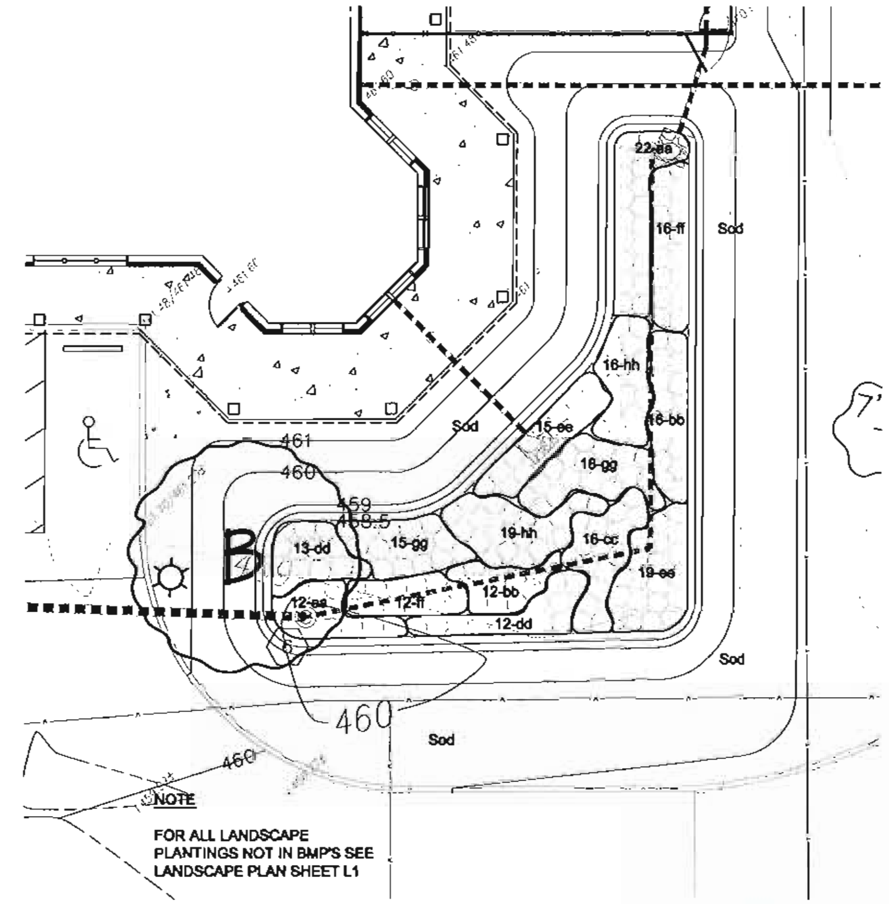
PLANTING SCHEDULE					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
aa	34	Amsonia illustris	Shining Bluestar	2x2x5" DCP	24" O.C. - group in clusters of 12-24
bb	28	Aster novae-angliae	New England Aster	2x2x5" DCP	24" O.C. - group in clusters of 12-24
cc	16	Bouteloua curtipendula	Sideoats Grama	2x2x5" DCP	24" O.C. - group in clusters of 12-24
dd	25	Carex praegracilis	Tollway Sedge	2x2x5" DCP	24" O.C. - group in clusters of 12-24
ee	50	Carex shortiana	Shorts Sedge	2x2x5" DCP	24" O.C. - group in clusters of 12-24
ff	28	Hibiscus lasiocarpos	Rose Mallow	2x2x5" DCP	24" O.C. - group in clusters of 12-24
gg	33	Iris virginica	Southern Blue Flag Iris	2x2x5" DCP	24" O.C. - group in clusters of 12-24
hh	35	Schizachyrium scoparium	Little Bluestem	2x2x5" DCP	24" O.C. - group in clusters of 12-24

Overseed area with equal amounts of each species listed above of pure live seed at a rate of 4lbs per acre.

Central Bio-Retention (See 3/L2)

PLANTING SCHEDULE					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
aa	61	Amsonia illustris	Shining Bluestar	2x2x5" DCP	24" O.C. - group in clusters of 12-24
bb	44	Aster novae-angliae	New England Aster	2x2x5" DCP	24" O.C. - group in clusters of 12-24
cc	64	Bouteloua curtipendula	Sideoats Grama	2x2x5" DCP	24" O.C. - group in clusters of 12-24
dd	61	Carex praegracilis	Tollway Sedge	2x2x5" DCP	24" O.C. - group in clusters of 12-24
ee	47	Carex shortiana	Shorts Sedge	2x2x5" DCP	24" O.C. - group in clusters of 12-24
ff	50	Hibiscus lasiocarpos	Rose Mallow	2x2x5" DCP	24" O.C. - group in clusters of 12-24
gg	52	Iris virginica	Southern Blue Flag Iris	2x2x5" DCP	24" O.C. - group in clusters of 12-24
hh	69	Schizachyrium scoparium	Little Bluestem	2x2x5" DCP	24" O.C. - group in clusters of 12-24

Overseed area with equal amounts of each species listed above of pure live seed at a rate of 4lbs per acre.

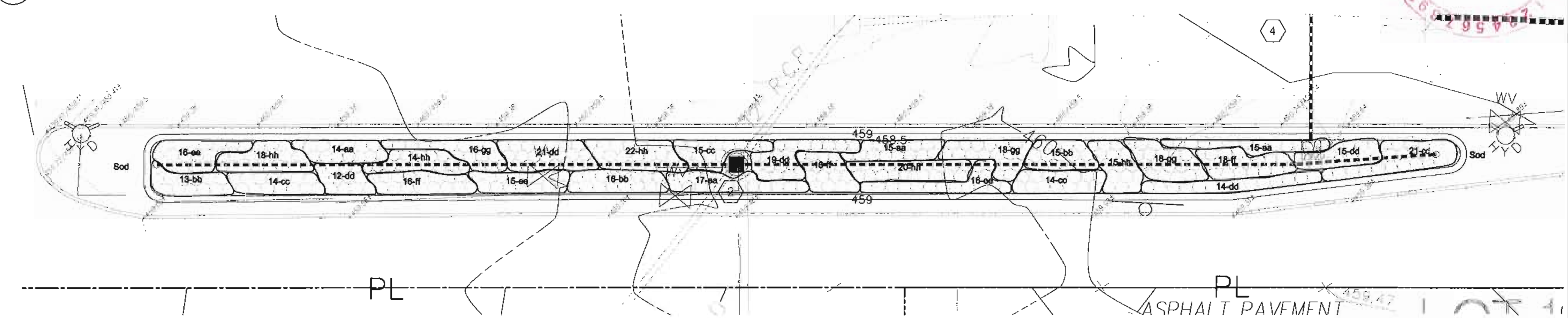


NOTE

FOR ALL LANDSCAPE PLANTINGS NOT IN BMP'S SEE LANDSCAPE PLAN SHEET L1

2/L2 EAST BIO-RETENTION PLAN

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



3/L2 CENTRAL BIO-RETENTION PLAN

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

North

STATE OF MISSOURI
JERALD A. SAUNDERS
NUMBER LA-7
LANDSCAPE ARCHITECT
10/20/11

Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

C & M CREATIONS
Site Development Section Plan
Chesterfield, MO

Revisions:

Date	Description	No.
10-21-11	Submittal	1

Drawn: JJ
Checked: RS

loomisAssociates
landscapearchitects|planners

Loomis Associates Inc.
Missouri State Certificate of Authority #: LAC 000019

Sheet Title: Bio-Retention Plan

Sheet No: L2

Date: 10/04/11
Job #: 925.001

DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST.
ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND
EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL
VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION.

POLE FIXTURE MOUNTING HEIGHT INCLUDES 2.5' BASE
LIGHT LEVEL CALCULATED ON GROUND

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DOG PARK	Illuminance	Fc	0.73	4.5	0.0	N.A.	N.A.
SITE	Illuminance	Fc	2.17	7.1	0.3	7.23	23.67
SPILL LIGHT	Illuminance	Fc	0.13	2.2	0.0	N.A.	N.A.

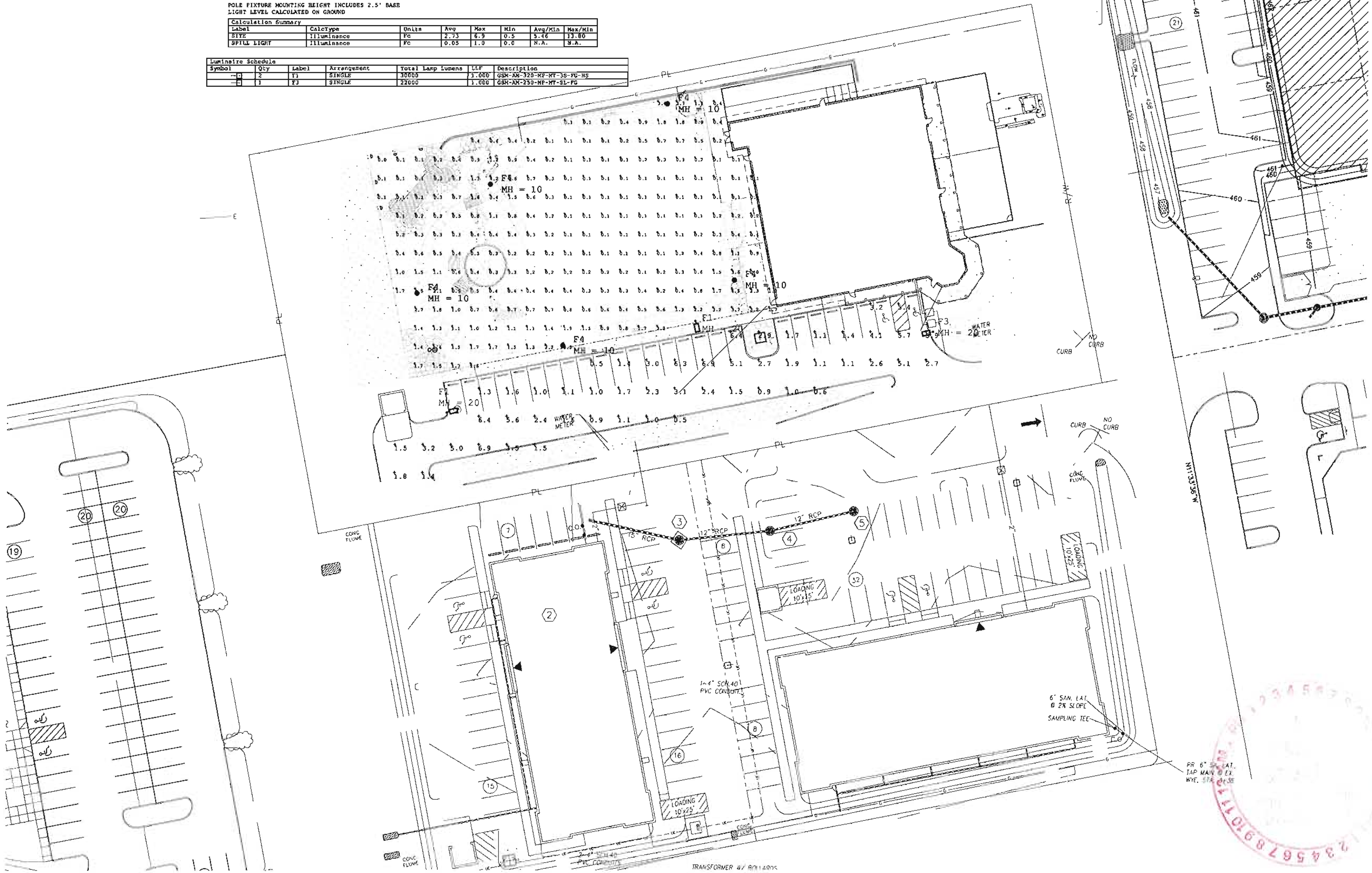
Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
●	5	F4	SINGLE	13000	0.650	LAA-PG-V-150PSMH

DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST.
ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND
EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL
VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION.

POLE FIXTURE MOUNTING HEIGHT INCLUDES 2.5' BASE
LIGHT LEVEL CALCULATED ON GROUND

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	2.73	6.9	0.5	5.46	13.80
SPILL LIGHT	Illuminance	Fc	0.05	1.0	0.0	N.A.	N.A.

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
─▢	2	F1	SINGLE	30000	1.000	GSM-AM-320-MP-MT-3S-FG-HS
─▢	1	F3	SINGLE	22000	1.000	GSM-AM-250-MP-MT-SL-FG



Tennill & Associates, Inc.
CONSULTING ENGINEERS
177 Chesterfield Industrial Boulevard
Chesterfield, Missouri 63005
PHONE: (636) 537-3990
FAX: (636) 537-3998

Feeler Scheer Architects LLC
Architecture
Planning
Lab Planning
Healthcare
Interiors

C & M CREATIONS
CHESTERFIELD, MO.

REVISIONS		
NO.	DATE	DESCRIPTION
	10-25-11	

DATE: 06-22-11
PROJECT NO: 11.025
DRAWN:
CHECK: SMF
SHEET: E-1

View Looking North From Entry

View Looking West From Entry

View Looking North West From Entry

View Looking North East From Entry

View Looking South From Entry

View Looking South East From Entry

McGRAW-EDISON®

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

Galleria's beauty and versatility make it an excellent choice for roadway and general area lighting applications. An aesthetic reveal in the formed aluminum housing gives the Galleria e distinctive look while a variety of mounting options and lamp wattages provide maximum flexibility.

Galleria's superior light distributions makes it the optimum choice for almost eny small, medium or large area lighting application.

SPECIFICATION FEATURES

Construction
HOUSING: Formed aluminum housing with stampad reveal has interior-welded seams for structurel integrity and is finished in premium TGIC polyester powder coat. U.L. listed and CSA certified for wet locations. DOOR: Formed aluminum door has heevy-duty hinges, captive retaining screws and is finished in premium TGIC polyester powder coat. (Spider mount unit has steel door.)

Electrical
BALLAST TRAY: Ballast tray is hard-mounted to housing interior for cooler operation.

Optical
REFLECTOR: Choice of 14 high efficiency opticel systems utilizing horizontal and verticel lamp orientations. Optional high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge eluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Standerd with mogul-base socket. All optical modules feature quick disconnect wiring plugs end are field rotatable in 90° increments. LENS: Convex tempered glass lens or flet glass.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Specify arm-included mounting for contractor-friendly single carton packaging of housing and arm.

GSS/GSM/GSL
GALLERIA SQUARE

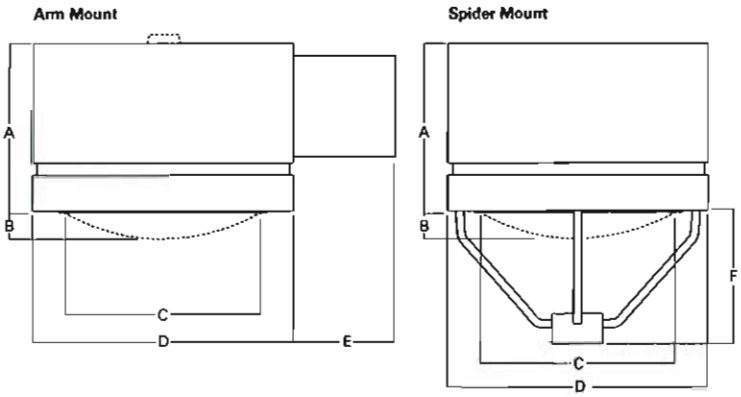
70 - 1000W
Pulse Start Metal Halide
High Pressure Sodium
Metal Halide

ARCHITECTURAL AREA LUMINAIRE

DARK SKY COMPLIANT — FCO Full Cutoff

NOTE: In all flat glass configurations only.

DIMENSIONS

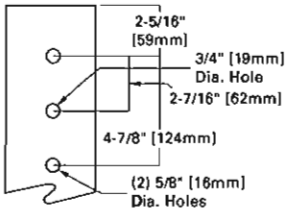


Fixture	A	B	C	D	E	F
GSS	9-1/4"	1-1/2"	12-7/8"	15-5/8"	6" or 9"	3-1/4"
	235mm	38mm	327mm	397mm	152mm or 229mm	337mm
GSM	11"	3-1/2"	19-1/4"	21-3/4"	6" or 14"	15" or 16"
	279mm	89mm	480mm	552mm	152mm or 356mm	381mm or 406mm
GSL	14-1/2"	4-1/4"	25-7/8"	27"	6" or 14"	18-3/4" or 19-3/4"
	368mm	108mm	657mm	686mm	152mm or 356mm	476mm or 502mm

NOTE: Top cap used on GSM with 1000W flat glass vertically lamped optics only.

ARM DRILLING

TYPE "M"



WATTAGE TABLE

Fixture	Lamp Type	Wattage
GSS (Galleria Small)	Pulse Start Metal Halide (MP)	70, 100, 150W
	High Pressure Sodium (HPS)	70, 100, 150W
	Metal Halide (MH)	175W
GSM (Galleria Medium)	Pulse Start Metal Halide (MP)	70, 100, 150, 175, 200, 250, 320, 350, 400, 450, 750, 875, 1000W
	High Pressure Sodium (HPS)	70, 100, 150, 250, 400, 750, 1000W
	Metal Halide (MH)	175, 250, 400, 1000W
GSL (Galleria Large)	Pulse Start Metal Halide (MP)	250, 320, 350, 400, 450, 750, 1000W
	High Pressure Sodium (HPS)	250, 400, 750, 1000W
	Metal Halide (MH)	250, 400, 1000W

ENERGY DATA

CWA Ballast Input Watts
150W MP HPF (185 Watts)
175W MP HPF (198 Watts) Ⓔ
250W MP HPF (283 Watts) Ⓔ
250W HPS HPF (295 Watts)
400W MP HPF (452 Watts) Ⓔ
400W HPS HPF (457 Watts)
750W MP HPF (820 Watts)
1000W MH HPF (1080 Watts)
1000W HPS HPF (1100 Watts)

EPA
Effective Projected Area: (Sq. Ft.)
[Without Arm]
GSS: 1.20 **GSM**: 2.40 **GSL**: 3.90
[Spider Mount]
GSS: 1.53 **GSM**: 2.86 **GSL**: 4.45

SHIPPING DATA

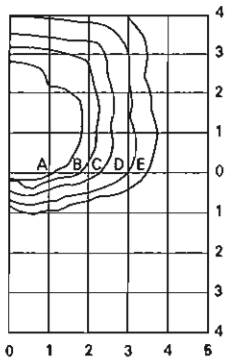
Approximate Net Weight:
36 lbs. (16 kgs.)
79 lbs. (36 kgs.)
88 lbs. (40 kgs.)

MOUNTING CONFIGURATIONS

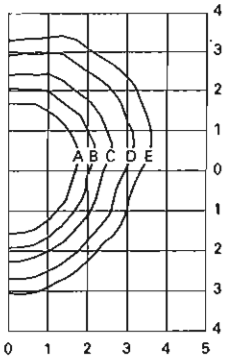
Wall Mount | Arm Mount Single | Arm Mount 2 @ 180° | Arm Mount 2 @ 90° | Arm Mount 3 @ 120° (Round Pole Only) | Arm Mount 3 @ 90° | Arm Mount 4 @ 90°

E.P.A. TABLE	Single [w/arm where applicable]	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
GSS	1.7	3.4	3.4	4.6	4.6	5.2
GSM	2.9	5.8	6.8	9.2	9.2	10.4
GSL	4.4	8.8	9.8	13.7	13.7	15.6

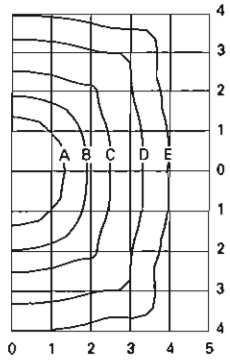
PHOTOMETRICS



GSM-XX-1000-MH-SL-FG
1000-Watt MH
110,000-Lumen Clear Lamp
Spill Light Eliminator
Flat Glass



GSM-XX-1000-MH-3V-FG
1000-Watt MH
110,000-Lumen Cleer Lamp
Type III Vertical
Flat Glass



GSM-XX-1000-MH-AS-SG
1000-Watt MH
110,000-Lumen Clear Lamp
Area Square
Flat Glass

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines A	B	C	D	E
1000W [SL] / 400W [AR]					
25'	2.88	1.44	0.72	0.29	0.14
30'	2.00	1.00	0.50	0.20	0.10
35'	1.46	0.73	0.37	0.15	0.07
1000W [3V/AS]					
30'	3.50	2.00	1.00	0.50	0.20
35'	2.60	0.73	0.37	0.18	0.07
40'	2.00	1.00	0.50	0.20	0.10

ORDERING INFORMATION

Sample Number: GSM-AM-400-MP-MT-3V-SG-BK-L

Product Family
- **GSS** =Galleria Square Small
- **GSM** =Galleria Square Medium
- **GSL** =Galleria Square Large

Mounting Method
- **AM** =Arm Mount [1]
- **AIR** =Arm Included for Round Pole [2]
- **AIS** =Arm Included for Square Pole [2]
- **SM1** =Spider Mount [3] (2 3/8" OD Tenon)
- **SM2** =Spider Mount (3" OD Tenon)
- **SM3** =Spider Mount [4] (3 1/2" OD Tenon)

Lamp Wattage [5]

MP
- **70** =70W
- **100** =100W
- **150** =150W
- **175** =175W
- **200** =200W
- **250** =250W
- **320** =320W
- **350** =350W
- **400** =400W [6]
- **450** =450W
- **750** =750W
- **875** =875W
- **1000** =1000W [7]

HPS
- **70** =70W
- **100** =100W
- **150** =150W
- **250** =250W
- **400** =400W
- **750** =750W
- **1000** =1000W [7]

MH [8]
- **175** =175W
- **250** =250W
- **400** =400W
- **1000** =1000W [7]

Lamp Type
- **MP** =Pulse Start Metal Halide
- **HPS** =High Pressure Sodium
- **MH** =Metal Halide [8]

Voltage [9]
- **120** =120V
- **208** =208V
- **240** =240V
- **277** =277V
- **347** =347V
- **480** =480V
- **MT** =Multi-Tap [10]
- **TT** =Triple-Tap [10]
- **5T** =5-Tap [11]

Distribution

Horizontal Lamp
- **1F** =Type I Formed [12]
- **2F** =Type II Formed
- **2S** =Type II Segmented [13]
- **3F** =Type III Formed
- **3S** =Type III Segmented [13]
- **4S** =Type IV Segmented [13]
- **5S** =Type V Segmented [13]
- **FT** =Forward Throw
- **SL** =Spill Light Eliminator [14]
- **CA** =Cutoff Asymetric with EHS [15]

Vertical Lamp
- **AR** =Area Round
- **AS** =Area Square [15]
- **3V** =Type III Vertical [15]
- **RW** =Rectangular Wide [16, 15]

Lens Type
- **FG** =Flat Glass [17]
- **SG** =Sag Glass

Color [18]
- **AP** =Grey
- **BZ** =Bronze
- **BK** =Black
- **WH** =White
- **DP** =Dark Platinum
- **GM** =Graphite Metallic

Options [19]
- **F** =Single Fuse (120, 277 or 347V)
- **FF** =Double Fuse (208, 240 or 480V)
- **L** =Lamp Included
- **EM** =Quartz Restrike w/ [20] Delay
- **Q** =Quartz Restrike [20]
- **R** =NEMA Twistlock Photocontrol Receptacle
- **EHS** =External Adjustable House Side Shield
- **HS** =House Side Shield [21]
- **VS** =Vandal Shield [22]

Accessories [22]
- **GSM-EXTHS** =External House Side Shield - 2.24 EPA
- **GSL-EXTHS** =External House Side Shield - 2.46 EPA
- **MA1004XX** =14" Arm for Square Pole. 1.0 EPA [15]
- **MA1005XX** =6" Arm for Square Pole. 0.5 EPA [15]
- **MA1006XX** =Direct Mount Kit for Square Pole [15]
- **MA1007XX** =14" Arm for Round Pole. 1.0 EPA [15]
- **MA1008XX** =6" Arm for Round Pole. 0.5 EPA [15]
- **MA1009XX** =Direct Mount Kit for Round Pole [15]
- **MA1021XX** =6" Arm for Square Pole. 0.5 EPA [3]
- **MA1022XX** =6" Arm for Round Pole. 0.5 EPA [3]
- **MA1023XX** =9" Arm for Square Pole. 0.5 EPA [3]
- **MA1024XX** =9" Arm for Round Pole. 0.5 EPA [3]
- **MA1029XX** =Wall Mount Bracket with 10" Arm
- **MA1046XX** =Wall Mount Bracket [3]
- **MA1208XX** =11 1/2" Arm and Round Pole Adapter - 0.8 EPA
- **OA1066XX** =Mast Arm Adapter
- **MA1010XX** =Single Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1011XX** =2@180° Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1012XX** =3@120° Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1013XX** =4@90° Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1014XX** =2@90° Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1015XX** =2@120° Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1016XX** =3@90° Tenon Adapter for 3 1/2" O.D. Tenon
- **MA1017XX** =Single Tenon Adapter for 2 3/8" O.D. Tenon
- **MA1018XX** =2@180° Tenon Adapter for 2 3/8" O.D. Tenon
- **MA1019XX** =3@120° Tenon Adapter for 2 3/8" O.D. Tenon
- **MA1045XX** =4@90° Tenon Adapter for 2 3/8" O.D. Tenon
- **MA1048XX** =2@90° Tenon Adapter for 2 3/8" O.D. Tenon
- **MA1049XX** =3@90° Tenon Adapter for 2 3/8" O.D. Tenon
- **MA1060** =House Side Shield for GSS (Field Installed) [24]
- **MA1061** =House Side Shield for GSM (Field Installed) [24]
- **MA1062** =House Side Shield for GSL (Field Installed) [24]
- **OA/RA1016** =NEMA Twistlock Photocontrol - Multi-Tap
- **OA/RA1027** =NEMA Twistlock Photocontrol - 480V
- **OA/RA1201** =NEMA Twistlock Photocontrol - 347V

Notes:

1. Arm not included. See Accessories.
2. Arm length varies based on housing size: 9" for GSS, 11-1/2" for GSM and 14" for GSL.
3. Available on GSS housing only.
4. Available on GSL housing only.
5. Standard with medium-base sockets in GSS housing. Mogul-base sockets in GSM and GSL housings. Wattage availability varies by housing size - see Wattage Table.
6. Requires reduced envelope ED-28 lamp when used with GSM housing and flat glass vertically lamped optics.
7. Requires reduced envelope BT-37 lamp when used with GSM housing.
8. 175, 250 and 400W MH available for non-US markets only.
9. Products also available in non-US voltages and 50Hz for International markets. Consult factory for availability and ordering information.
10. Multi-Tap ballast is 120/208/240/277V wired 277V. Triple-Tap ballast is 120/277/347V wired 347V.
11. 5-Tap ballast is 120/2008/240/277/480V wired 480V. Only available in 400-1000W.
12. Medium housing fixture only.
13. Maximum wattage on segmented optical distributions is 400W. 400W Metal Halide lamp must use reduced envelope ED-28 lamp. Not available in GSL housing.
14. Must use reduced envelope lamp, not available in GSL housing.
15. Available on GSM and GSL housings only.
16. RW optic not available with flat glass.
17. 1000W GSL with flat glass requires BT-37 lamp and is not available in AS, RW, SL or 3V distributions.
18. Other finish colors available, including a full line of RAL color matches. Consult your Cooper Lighting Representative.
19. Add as suffix in the order shown.
20. Quartz options not available with SL optics.
21. House side shield not available with 5S, RW, AS, AR, SL and CA optics.
22. Arm mount only, 400W Maximum.
23. Order separately, replace XX with color suffix.
24. Compatible with sag lens vertical optics only.

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The Sure-Lites Architectural Emergency Light is designed to provide superior illumination while blending into the surrounding space. The housing is constructed of die-cast aluminum with an integral refractive polycarbonate lens and advanced optical design, which in conjunction with high output Xenon lamps provides maximum path of egress lighting performance. The Sure-Lites Architectural Emergency Light is listed for temperatures between -20°C and 40°C (-4°F and 104°F) [Remote unit temperature range: -40°C and 65°C (-40°F and 149°F)]. Standard features include Watchguard EMS self-diagnostic system and a FasTest Photocell Test Switch.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Electrical
- Watchguard EMS Self-Diagnostic System
- Dual Voltage Input, 120/277 VAC, 60Hz
- Isolation Transformer
- Line-latching
- Solid-state Voltage Limited Charger
- Low-Voltage Disconnect
- Brownout Circuit
- Overload/Short Circuit Protection
- Test Switch/Power Indicator Light
- Photocell Test Switch (requires accessory LASER for activation)
- Fully Recharged in 24 hours

Housing Construction
- Die-cast Aluminum Housing
- Universal Pattern Knockouts on rear of housing for direct mounting to junction box
- 1/2" Threaded Conduit Access on top surface
- Powder Coat Paint Finish
- UV Stable Polycarbonate Lens
- Silicone Gaskets

Battery
- Sealed Nickel Cadmium
- Maintenance-free, Long-life
- Full Recharge Time, 24 hrs

Code Compliance
- UL924 Listed, Self-Diagnostics
- UL Outdoor Wet Location Listed (suitable for wet and damp locations)
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

Warranty
- Unit: 1-Year
- Battery: 15-year pro-rata

Lamp Data
- Three 6V 6W High output Xenon lamps

ARCHITECTURAL EMERGENCY LIGHT SERIES

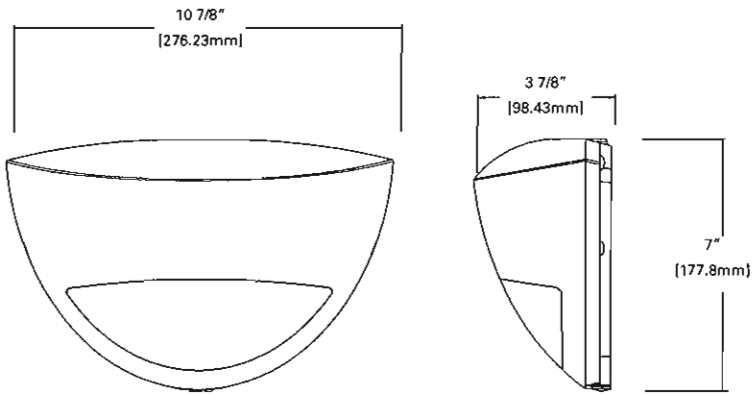
DIE-CAST ALUMINUM

SURFACE MOUNT

SEALED NICKEL CADMIUM BATTERY

XENON LAMPS

EMERGENCY LIGHTING



ELECTRICAL RATINGS

	Rated Wattage to 67-1/2% of Rated D.C. Voltage		Lamp Information			
Model	D.C. Voltage	1-1/2 Hours	Type	Wattage	Number	Spacing [1]
AEL1SD	**6**	**18**	**Xenon**	**6 each**	**11549423**	**30'**

TOTALLY PREDICTABLE RELIABILITY.

ORDERING INFORMATION

Family		**Housing Finish**	**Standard**	**Options**	**Accessories** [1]
AEL1: Architectural Emergency Light		**__**: Silver	**SD**: Self Diagnostics	**TDM**: Time Delay Monitor	**LASER**: Key Chain, Red Laser Pointer (activation tested at 15 feet)
		WH: White		**Remote**: Remote Unit	
		BK: Black			
		BZ: Bronze			

Notes: 1 Order separately.

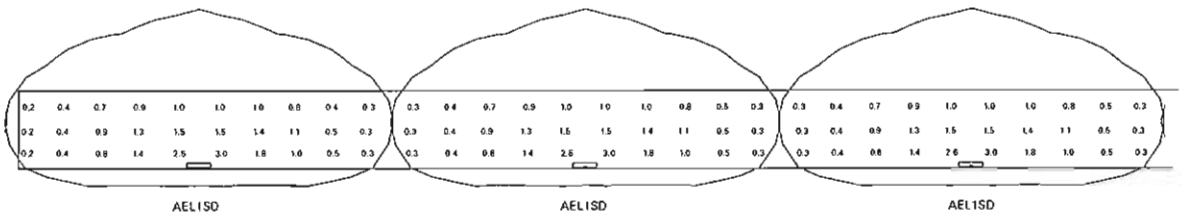
ENERGY DATA

Sealed Nickel Cadmium Battery
AEL1SD
Input Current:
120V = .10A
277V = .07A

COOPER Lighting
www.cooperlighting.com

Specifications and dimensions subject to change without notice.
Consult your representative for additional options and finishes.

PHOTOMETRICS



H2704	30' Spacing	Illuminance Values(Fc)	Average=1.03	Maximum =3.1 Minimum =0.3	Avg/Min Ratio=3.03	Max/Min Ratio=10.33

***The "Rule of Thumb" spacing guidelines are designed to achieve 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/minimum ratio. The corridor used is 100 feet long, 9 foot ceiling with a 6 foot wide walkway and 3 foot path of egress. The reflectances are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 8.5 feet. Cooper Lighting assumes no responsibility for local requirements or specific project variables. This is a guideline to be used as a design aid, not as guarantee of any code compliance.

TECHNICAL DATA

Lamps
The AEL1SD utilizes 6V 6W high output Xenon lamps standard. The Xenon lamps provide maximum illumination along the emergency path of egress.

Housing
Die-cast aluminum with a powder coat painted finish. Universel pattern knockouts are located on the beck housing for direct mounting to the junction box. Threeded conduit entry provided on the top surfece of the housing. UV stable, polycarbonate lens and vecuum-metallized reflector provide efficient optical control.

Electronics
Dual voltage input 120/277 VAC is standard. Nickel cadmium battery is standard. All bettery and electrical components are enclosed within the housing.

Photocell Test Switch
Allows verification of proper operation of the transfer circuit and emergency lamps with a laser pointer (laser is sold as en accessory). The emergency lamps will test for 30 seconds when activated.

Self-Diagnostics
The self-diagnostic unit will automatically perform all tests required by UL924, and NFPA 101. The system indicates the status of the unit at all times using the LED indicator near the test switch on the bottom of the unit. A 90 minute battery power (emergency mode) simulation test will occur rendomly once every six months. A 30 second battery power simulation test will occur every 30 days. The charger function is tested upon initial power-up end after every battery discharge cycle thereafter. The AC/DC power transfer circuit is monitored continuously. The charging mode is also monitored. The unit goes into a high charge mode for 24 hours the first time AC power is applied and when a discharge causes the battery voltage to fall below its nominal value. Pressing the test switch causes the unit to use battery power and test the battery capacity for 30 seconds. The LED indicator is off when the unit is in the emergency mode and on continuously when the unit is fully charged. The LED blinks when the unit is in the high charge mode. It blinks twice (then repeats) when the battery needs to be replaced, or if it is disconnected. It blinks three times if there is a circuit boerd (charger or AC/DC transfer function) failure, end four times if there is a lamp failure.

Line-Latched
Sure-Lites line-latched electronic circuitry mekes installation easy and economical. A lebor efficient AC activated load switch prevents the lamps from turning on during installetion to a non-energized AC eircuit. Line-letching eliminates the need for a contractor's return to a job site to conneet the batteries when the building's main power is turned on.

Solid-State Charger
Supplied with a 120/277 VAC, voltage regulated solid-state charger, the battery is recharged immedietely upon restoration of AC current efter e power failure. The charge circuit reacts to the condition of the battery in order to maintain peak battery capacity and maximize bettery life. Solidstate construction recharges the battery following a power failure in accordence with UL 924.

Solid-State Transfer
The emergency light incorporates solid-state switching which eliminates corroded and pitted contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC voltage and automatically energizes the lamps using DC power. Upon restoration of AC power, the DC power will be disconnected and the charger will automatically recharge the battery.

Low-Voltage Disconnect
When the battery's terminal voltage falls, the low-voltage circuitry disconnects the lighting load. The disconnect remains in effect until normal utility power is restored, preventing deep battery discharge.

Overload and Short Circuit Protection
The solid-state overload monitoring device in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and autometically resets when the overload or short circuit is removed. This overload current protective feature eliminates the need for fuses or circuit breakers for the DC load.

Brownout Circuit
The brownout circuit on Sure-Lites exits monitors the flow of AC current to the unit and ectivates the emergency lighting system when a predetermined reduction of AC power occurs. This dip in voltage will cause most ballested fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

Test Switch/Power Indicator Light
A test switch located on the inside cover of the unit permits the activation of the emergency circuit for a complete operational systems check. The Power Indicator Light provides visual assurance that the AC power is on.

Seeled Nickel Cadmium Battery
Sure-Lites sealed nickel cadmium batteries are maintenence-free with a life expectancy of 15 years. The sealed rechargeable nickel cadmium battery offers high discharge retes and stable performance over a wide range of temperatures. The specially designed resealable vent automatically controls cell pressure, assuring safety and reliability. This battery is best suitad for harsh ambient temperatures because the electrolyte is not active in the electrochemical process.

Warranty
The Sure-Lites Architectural Emergency Light is backed by a firm one (1) year warranty against defects in material and workmanship. Maintenance-free, long-life, sealed nickel cadmium batteries carry e fifteen-year pro-rata warranty.

HALO

DESCRIPTION - H7 LED DOWNLIGHT TRIMS

Halo H7 LED Collection consists of 6" recessed downlights with ML7 Series LED Retrofit Modules and 49x Series trims; and H750x Series LED housings. Halo H7 LED Downlight trims are offered in open and lensed, baffles and reflectors; and wet location shower rated models. Trims are compatible with H7 Collection 600, 900, and 1200 Series LED downlight modules (see also LED module specification sheets). Halo LED offers high quality, fit, finish, and performance in an energy-efficient, high-efficacy downlight.

Catalog #		Type
Project		
Comments		Date
Prepared by		

H7 LED Downlight Trims

49x Series

6-Inch LED Trims

FOR USE WITH ML7x LED MODULES

High Efficacy LED

Compatible with ML7 Standard and Emergency LED Modules

SPECIFICATION FEATURES

MECHANICAL

Baffles and Reflectors

- Precision formed aluminum
- Reflector Finishes offered in White, Specular Clear, Haze, Satin Nickel, and Tuscan Bronze
- Baffle Finishes offered in White and Black

Trim Rings

- Durable die-cast aluminum
- Precision keyed slots designed to lock with matching keyed bosses in ML7 LED modules
- Works with LED module's heat sink to provide further thermal conduction away from the LED
- Standard finishes offered in White, Black, Satin Nickel, and Tuscan Bronze.
- Optional, thin profile trim rings offered in White, Black, Satin Nickel, Tuscan Bronze, and Polished Chrome finishes.
- Thin profile designer trim rings provide slimmer ceiling appearance. Thickness dimensions: 0.120" at OD and 0.180" at ID.

FEATURES

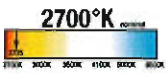
- Superior optical design provides high lumen output, smooth beam distribution, and good visual comfort
- Precision design and materials for a high-quality fit and finish
- Multiple trim options allow Halo H7 LED recessed downlights to be used in a wide range of interior spaces
- High-quality standard and plated finishes
- Solite® lensed trims offer high-clarity glass for high-lumen transmission along with a subtle diffusion of source brightness
- Solite® and Frost Glass Lensed models are UL/cUL listed for Wet Location, protected ceilings, and are IP66 Ingress Protection rated for dust and water
- H7 LED trims offer ENERGY STAR® Qualification when used with designated Halo ML7x LED modules*
- Can be used to meet State of California Title 24 and International Energy Conservation Code – IECC High Efficacy requirements when used with designated LED modules*

Warranty

Cooper Lighting provides a three year limited warranty on Halo LED Luminaires which includes the LED Recessed Housing, LED Light Engine, and LED trims.

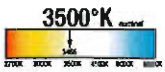
Qualified & Compliant as designated with LED Modules and Trim.*

COMPATIBLE ML7 SERIES LED MODULES

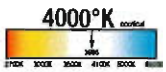


600 Series	ML706827
900 Series	ML709827ICAT120D
1200 Series	ML709827ICAT120D

600 Series	ML706830
900 Series	ML709830ICAT120D
1200 Series	ML709830ICAT120D



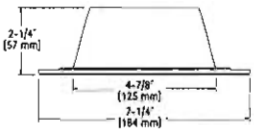
600 Series	ML706835
900 Series	ML709835ICAT120D
1200 Series	ML709835ICAT120D



600 Series	ML706840
900 Series	ML709840ICAT120D
1200 Series	ML709840ICAT120D

*Refer to www.cooperlighting.com for product specification sheets, and the qualified selection of H7 LED Modules and Trims.

WALL WASH DOWNLIGHT TRIMS



495WW06

Wall Wash

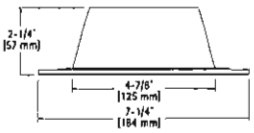
Wall wash downlight - Semi-Specular clear reflector, with Specular Wall Wash optic, diffusing lens and White Trim Ring.

495PWW06

Wall Wash

Wall wash downlight - White reflector, with Specular Wall Wash optic, diffusing lens and White Trim Ring.

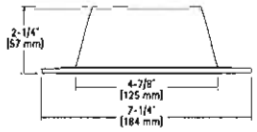
OPEN REFLECTOR AND BAFFLE TRIMS



494SC06

Specular Clear Reflector, White Ring

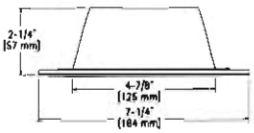
Accessory lens: see 494OPTIC



494H06

Haze Reflector, White Ring

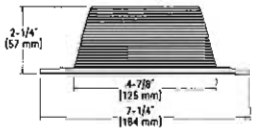
Accessory lens: see 494OPTIC



494P06

White Reflector, White Ring

Accessory lens: see 494OPTIC



494WB06

White Baffle, White Ring

Accessory lens: see 494OPTIC

494OPTIC

Lens Over-Optic for Open LED trims

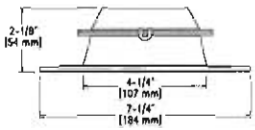
Optional accessory - lens drops into top of open LED trims (494 series).

Precision formed lens media provides diffusion of LED source brightness.

Compatible with:
494SC06
494H06
494P06
494WB06

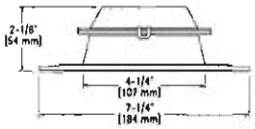
REFLECTOR AND BAFFLE TRIMS WITH SOLITE® REGRESSED LENS

Wet Location Listed end IP66 Rated.



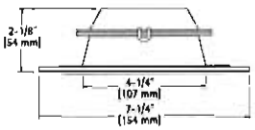
493SCS06

Specular Clear Reflector with Solite® Regressed Lens, White Ring



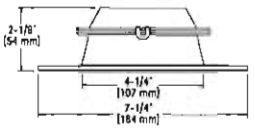
493HS06

Haze Reflector with Solite® Regressed Lens, White Ring



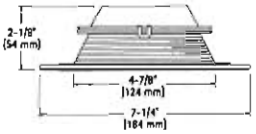
493TBZS06

Tuscan Bronze Reflector with Solite® Regressed Lens, Tuscan Bronze Ring



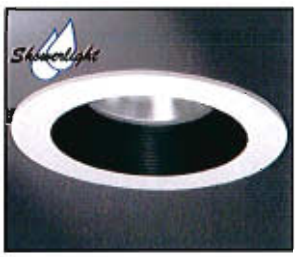
493SNS06

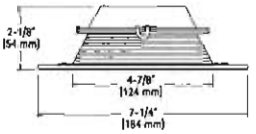
Satin Nickel Reflector with Solite® Regressed Lens, Satin Nickel Ring



493WBS06

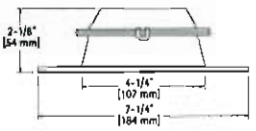
White Baffle with Solite® Regressed Lens, White Ring





493BBS06

Black Baffle with Solite® Regressed Lens, White Ring



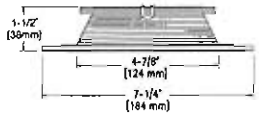
493PS06

White Reflector with Solite® Regressed Lens, White Trim Ring.

H4 LED DOWNLIGHT SERIES – LED TRIMS

FROST LENS SHOWER TRIM

Wet Location Listed For Shower Applications



492PS06

White Baffle and Ring with Frost Regressed Lens

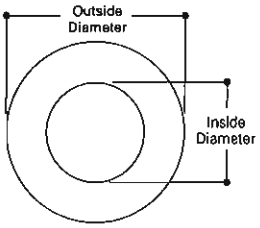
TRIM ACCESSORIES

TRM490

Designer Trim Rings

- Optional accessory
- Die-cast trim ring
- Thinner Profile provides subtle ceiling appearance (.120" at OD and .180 at ID)

TRM490TBZ	Tuscan Bronze
TRM490PC	Polished Chrome
TRM490WH	White
TRM490BK	Black
TRM490SN	Satin Nickel



OT490WH

Oversize Trim Ring, White

Optional accessory - oversize trim ring is designed to replace the standard Halo LED trim ring. For direct attachment to ML7x LED Modules: 600 Series, 900 Series, and 1200 Series.

Dimensions: I.D. = 5-1/8" and O.D. = 9-1/4".

Precision die-cast aluminum ring may be used to hide gaps in the ceiling when retrofitting Halo LED or for covering cut-out irregularities.

H7 LED Trims Photometric and Compliance Summary

H7 LED Downlight Collection - 600 Series																	
		ML706827 2700°K				ML706830 3000°K				ML706835 3500°K				ML706840 4000°K			
Trim Type	Trim Model	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)
Frost Lens Shower Trim	492PS06	416				480				458				500			
Solite® Lens Tuscan Bronze Reflector	493TBZS06	474				543				512				563			
Solite® Lens Black Baffle	493BBS06	498				571			X	543			X	597			X
Solite® Lens White Baffle	493WBS06	599			X	684	X	X	X	653	X	X	X	714	X	X	X
Solite® Lens Specular Clear Reflector	493SCS06	592			X	676	X	X	X	641	X	X	X	708	X	X	X
Open Specular Clear Reflector	494SC06	640		X	X	756	X	X	X	699	X	X	X	793	X	X	X
Open White Baffle	494WB06	604		X	X	686	X	X	X	677	X	X	X	716	X	X	X
Solite® Lens Satin Nickel Reflector	493SNS06	506				575			X	553			X	602			X
Open White Reflector	494P06	605		X	X	693	X	X	X	663	X	X	X	722	X	X	X
Solite® Lens Haze Reflector	493HS06	581			X	654	X	X	X	628	X	X	X	691	X	X	X
Open Haze Reflector	494H06	634		X	X	721	X	X	X	674	X	X	X	758	X	X	X
Solite® Lens White Reflector	493PS06	587		X	X	623	X	X	X	658	X	X	X	693	X	X	X
Semi-Spec Reflector Wall Wash	495WW06	600			X	635	X		X	671	X		X	707	X		X
White Reflector Wall Wash	495PWW06	598			X	634	X		X	670	X		X	706	X		X
Open White Reflector w/ Overoptic lens	494P06-494OPTIC																
Open White Baffle w/ Overoptic lens	494WB06-494OPTIC																
Open Haze Reflector w/ Overoptic lens	494H06-494OPTIC																
Open Specular Reflector w/ Overoptic lens	494SC06-494OPTIC																

(1) Baseline testing is performed in accordance with IES LM-79 Photometric Measurement Standards to represent relative SSL fixture performance.

(2) ENERGY STAR® Luminaire (Light Fixture)

(3) California Energy Commission Building Energy Efficiency Standards, California Code of Regulations Title 24, Part 1 -- High Efficacy Luminaire

(4) International Energy Conservation Code -- "High Efficacy Lamps" and Section 404 "Electrical Power and Lighting Systems"

H7 LED Trims Photometric and Compliance Summary

H7 LED Downlight Collection - 900 Series																	
		ML709827ICAT120D 2700°K				ML709830ICAT120D 3000°K				ML709835ICAT120D 3500°K				ML709840ICAT120D 4000°K			
Trim Type	Trim Model	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)
Frost Lens Shower Trim	492PS06	511				538				594			X	574		X	X
Solite® Lens Tuscan Bronze Reflector	493TBZS06	588		X	X	618	X	X	X	680	X	X	X	668	X	X	X
Solite® Lens Black Baffle	493BBS06	620		X	X	653	X	X	X	718	X	X	X	706	X	X	X
Solite® Lens White Baffle	493WBS06	735		X	X	773	X	X	X	854	X	X	X	839	X	X	X
Solite® Lens Specular Clear Reflector	493SCS06	726		X	X	762	X	X	X	843	X	X	X	828	X	X	X
Open Specular Clear Reflector	494SC06	816		X	X	859	X	X	X	945	X	X	X	924	X	X	X
Open White Baffle	494WB06	768		X	X	807	X	X	X	891	X	X	X	871	X	X	X
Solite® Lens Satin Nickel Reflector	493SNS06	627		X	X	661	X	X	X	729	X	X	X	706	X	X	X
Open White Reflector	494P06	773		X	X	814	X	X	X	897	X	X	X	877	X	X	X
Solite® Lens Haze Reflector	493HS06	711		X	X	750	X	X	X	824	X	X	X	802	X	X	X
Open Haze Reflector	494H06	781		X	X	821	X	X	X	907	X	X	X	888	X	X	X
Solite® Lens White Reflector	493PS06	659		X	X	712	X	X	X	774	X	X	X	777	X	X	X
Semi-Spec Reflector Wall Wash	495WW06	661			X	714	X		X	777	X		X	780	X		X
White Reflector Wall Wash	495PWW06	657			X	709	X		X	771	X		X	775	X		X
Open White Reflector w/ Overoptic lens	494P06-494OPTIC																
Open White Baffle w/ Overoptic lens	494WB06-494OPTIC																
Open Haze Reflector w/ Overoptic lens	494H06-494OPTIC																
Open Specular Reflector w/ Overoptic lens	494SC06-494OPTIC																

(1) Baseline testing is performed in accordance with IES LM-79 Photometric Measurement Standards to represent relative SSL fixture performance.

(2) ENERGY STAR® Luminaire (Light Fixture)

(3) California Energy Commission Building Energy Efficiency Standards, California Code of Regulations Title 24, Part 1 -- High Efficacy Luminaire

(4) International Energy Conservation Code -- "High Efficacy Lamps" and Section 404 "Electrical Power and Lighting Systems"

H7 LED Trims Photometric and Compliance Summary

H7 LED Downlight Collection - 1200 Series																	
		ML712827TUNVD010 2700°K				ML712830TUNVD010 3000°K				ML712835TUNVD010 3500°K				ML712840TUNVD010 4000°K			
Trim Type	Trim Model	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)	LUMENS (1)	ENERGY STAR® (2)	California T24 (3)	IECC (4)
Frost Lens Shower Trim	492PS06	862				952	X			997	X			933	X		
Solite® Lens Tuscan Bronze Reflector	493TBZS06	1024				1059	X			1105	X		X	1075	X		
Solite® Lens Black Baffle	493BBS06	1051				1115	X			1161	X		X	1130	X		
Solite® Lens White Baffle	493WBS06	1244				1320	X	X	X	1382	X	X	X	1346	X	X	X
Solite® Lens Specular Clear Reflector	493SCS06	1227				1320	X	X	X	1356	X	X	X	1328	X	X	X
Open Specular Clear Reflector	494SC06	1398		X	X	1429	X	X	X	1541	X	X	X	1506	X	X	X
Open White Baffle	494WB06	1296		X	X	1348	X	X	X	1424	X	X	X	1414	X	X	X
Solite® Lens Satin Nickel Reflector	493SNS06	1060				1124	X			1170	X	X	X	1144	X	X	
Open White Reflector	494P06	1325		X	X	1356	X	X	X	1438	X	X	X	1427	X	X	X
Solite® Lens Haze Reflector	493HS06	1206				1275	X	X		1329	X	X	X	1295	X	X	
Open Haze Reflector	494H06	1338		X	X	1375	X	X	X	1473	X	X	X	1444	X	X	X
Solite® Lens White Reflector	493PS06	1195				1290	X		X	1404	X	X	X	1410	X	X	X
Semi-Spec Reflector Wall Wash	495WW06	1201				1297	X		X	1411	X		X	1417	X		X
White Reflector Wall Wash	495PWW06	1187				1282	X		X	1395	X		X	1401	X		X
Open White Reflector w/ Overoptic lens	494P06-4940PTIC																
Open White Baffle w/ Overoptic lens	494WB06-4940PTIC																
Open Haze Reflector w/ Overoptic lens	494H06-4940PTIC																
Open Specular Reflector w/ Overoptic lens	494SC06-4940PTIC																

(1) Baseline testing is performed in accordance with IES LM-79 Photometric Measurement Standards to represent relative SSL fixture performance.

(2) ENERGY STAR® Luminaire (Light Fixture)

(3) California Energy Commission Building Energy Efficiency Standards, California Code of Regulations Title 24, Part 1 -- High Efficacy Luminaire

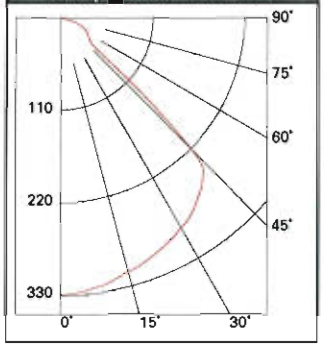
(4) International Energy Conservation Code -- "High Efficacy Lamps" and Section 404 "Electrical Power and Lighting Systems"

PHOTOMETRY - 600 SERIES LED DOWNLIGHT MODULE

White Baffle, Open
494WB06

Spacing Criteria = 1.3
Lumens per Watt = 49.05 LpW
Test No. P30049
Test Model: ML706835 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	25891
55	5778
65	6349
75	6098
85	3622

Candela Distribution	
Degrees Vertical	Candela
0	328
5	325
15	312
25	297
35	278
45	232
55	42
65	34
75	20
85	4
90	0

Cone of Light		
Distance to Illuminated Plane	~~Initial Nadir~~ Foot Candles	~~Beam~~ Diameter (ft)
5´6˝	12	10.3
7´0˝	7	13.1
8´0˝	6	15.0
9´0˝	4	16.9
10´0˝	4	18.8

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	257	N/A	37.9
0-40	430	N/A	63.5
0-60	619	N/A	91.4
0-90	677	N/A	100

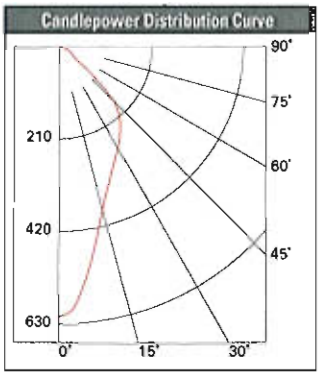
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8905	0.9476	1.0000	1.0476

Representative photometric test reports are as illustrated in combination with the designated Halo 600 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 600 Series LED use the appropriate multiplier.

White Baffle, Solite Lens
493WBS06

Spacing Criteria = 0.6
Lumens per Watt = 47.28 LpW
Test No. P30052
Test Model: ML706835 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	21516
55	5793
65	5379
75	4392
85	3010

Candela Distribution	
Degrees Vertical	Candela
0	611
5	559
15	380
25	292
35	240
45	174
55	38
65	26
75	13
85	3
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´6˝	20	8.1
7´0˝	12	10.3
8´0˝	10	11.8
9´0˝	8	13.3
10´0˝	6	14.7

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	293	N/A	44.9
0-40	444	N/A	67.9
0-60	610	N/A	93.5
0-90	653	N/A	100

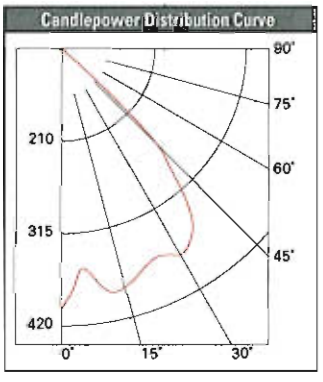
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8905	0.9476	1.0000	1.0476

Representative photometric test reports are as illustrated in combination with the designated Halo 600 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 600 Series LED use the appropriate multiplier.

Specular Clear, Open
494SC06

Spacing Criteria = 1.3
Lumens per Watt = 50.65 LpW
Test No. P30050
Test Model: ML706835 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	24775
55	138
65	187
75	0
85	0

Candela Distribution	
Degrees Vertical	Candela
0	422
5	360
15	401
25	372
35	370
45	222
55	1
65	1
75	0
85	0
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´6˝	14	10.8
7´0˝	9	13.8
8´0˝	7	15.7
9´0˝	5	17.7
10´0˝	4	19.6

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	323	N/A	46.2
0-40	552	N/A	79.0
0-60	699	N/A	99.9
0-90	699	N/A	100

Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8905	0.9476	1.0000	1.0476

Representative photometric test reports are as illustrated in combination with the designated Halo 600 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 600 Series LED use the appropriate multiplier.

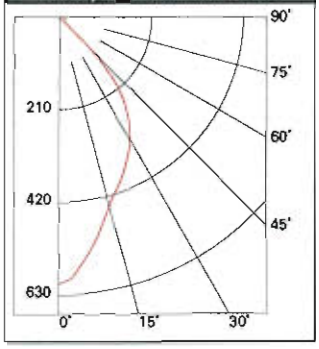
Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 600 SERIES LED DOWNLIGHT MODULE

Specular Cleer, Solite Lens
493SCS06

Spacing Criteria = 0.8
Lumens per Watt = 46.41 LpW
Test No. P30051
Test Model: ML706835 (3500K LED module)

Candlepower Distribution Curve



Luminance

(Average Candela/M²)

Degrees	Avg. 0° Luminance
45	19462
55	3618
65	2068
75	0
85	0

Candela Distribution

Degrees Vertical	Candela
0	603
5	566
15	445
25	363
35	276
45	126
55	19
65	8
75	0
85	0
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	20	8.6
7' 0"	12	10.9
8' 0"	9	12.5
9' 0"	7	14.0
10' 0"	6	15.6

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	346	N/A	53.9
0-40	517	N/A	80.7
0-60	632	N/A	98.5
0-90	641	N/A	100

Multiplier

Color Temperature as tested: 3500°K

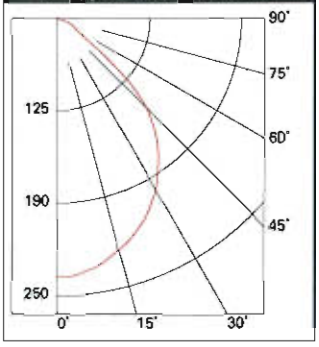
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8905	0.9476	1.0000	1.0476

Representative photometric test reports are as illustrated in combination with the designated Halo 600 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 600 Series LED use the appropriate multiplier.

Frost Highly Diffuse Lens
492PS06

Spacing Criteria = 1.2
Lumens per Watt = 33.16 LpW
Test No. P30055
Test Model: ML706835 (3500K LED module)

Candlepower Distribution Curve



Luminance

(Average Candela/M²)

Degrees	Avg. 0° Luminance
45	9610
55	3822
65	2464
75	2117
85	1258

Candela Distribution

Degrees Vertical	Candela
0	250
5	248
15	232
25	208
35	172
45	124
55	40
65	19
75	10
85	2
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	8	10.5
7' 0"	5	13.4
8' 0"	4	15.3
9' 0"	3	17.2
10' 0"	2	19.1

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	185	N/A	40.3
0-40	292	N/A	63.9
0-60	426	N/A	93
0-90	458	N/A	100

Multiplier

Color Temperature as tested: 3500°K

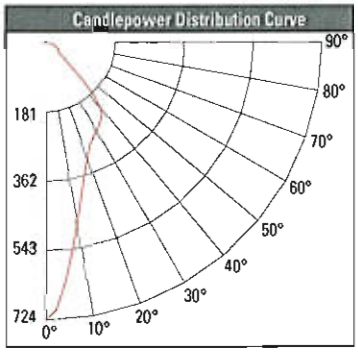
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8905	0.9476	1.0000	1.0476

Representative photometric test reports are as illustrated in combination with the designated Halo 600 Series LED Module in 3500°K color temperature For typical lumen values with other color temperature options for 600 Series LED use the appropriate multiplier.

White Reflector with Solite® Regressed Lens
493PS06

Spacing Criteria = 0.52
Lumens per Watt = 46.99 LpW
Test No. P85561
Test Model: ML706835 (3500K LED module)

Candlepower Distribution Curve



Luminance

(Average Candela/M²)

Degrees	Avg. 0° Luminance
45	9102
55	3211
65	2921
75	2337
85	576

Candela Distribution

Degrees Vertical	Candela
0	724
5	626
15	382
25	286
35	252
45	137
55	43
65	33
75	20
85	3
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	17	10.6
8' 0"	8	15.4
10' 0"	5	19.2
12' 0"	4	23.1
14' 0"	3	26.9

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	297	N/A	45.2
0-40	454	N/A	69.0
0-60	600	N/A	91.2
0-90	658	N/A	100

Multiplier

Color Temperature as tested: 3500°K

Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8905	0.9476	1.0000	1.0476

Representative photometric test reports are as illustrated in combination with the designated Halo 600 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 600 Series LED use the appropriate multiplier.

Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 600 SERIES LED WALL WASH

Wall Wash, Semi-Specular Reflector with Specular Wall Wash Optic, Diffusing Lens and White Trim Ring - 495WW06

Spacing Criteria = 1.28
Lumens per Watt = 45.39 LpW
Test No. P85558
Test Model: ML706830 (3000K LEO module)

Luminance

(Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	13773
55	10145
65	5906
75	1099
85	356

Candela Distribution

Degrees Vertical	Candela
0	289
5	281
15	267
25	252
35	235
45	207
55	135
65	66
75	10
85	2
90	0

Zonal Lumen Summary

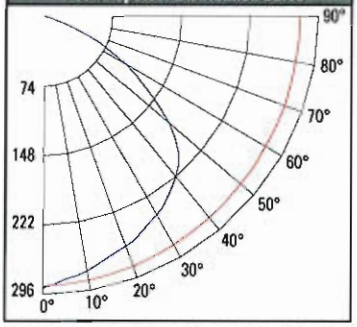
Zone	Lumens	% Lamp	% Fixture
0-30	231	N/A	36.3
0-40	379	N/A	59.6
0-60	593	N/A	93.3
0-90	636	N/A	100

Multiplier

Color Temperature as tested: 3000°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.9397	1.0000	1.0553	1.1055

Representative photometric test repons are as illustrated in combination with the designated Halo 600 Series LED Module in 3000°K color temperature. For typical lumen values with other color temperature options for 600 Series LEO use the appropriate multiplier.

Candlepower Distribution Curve



2' from Wall - 2' On Center

Distance From Ceiling in Feet	2'		
1'	15.4	16.3	15.4
2'	24.8	27.8	24.8
3'	16.1	17.6	16.1
4'	9.6	10.2	9.6
5'	5.9	6.2	5.9
6'	3.8	4.0	3.8
7'	2.6	2.7	2.6
8'	1.8	1.9	1.8
9'	1.3	1.4	1.3
10'	1.0	1.0	1.0

2' from Wall - 3' On Center

Distance From Ceiling in Feet	3'		
1'	13.9	8.5	13.9
2'	21.0	20.0	21.0
3'	13.4	14.9	13.4
4'	8.3	9.2	8.3
5'	5.3	5.8	5.3
6'	3.5	3.8	3.5
7'	2.4	2.6	2.4
8'	1.7	1.8	1.7
9'	1.3	1.3	1.3
10'	1.0	1.0	1.0

2' from Wall - 4' On Center

Distance From Ceiling in Feet	4'		
1'	13.6	3.7	13.6
2'	19.2	13.1	19.2
3'	11.7	11.9	11.7
4'	7.2	8.0	7.2
5'	4.7	5.2	4.7
6'	3.2	3.5	3.2
7'	2.2	2.4	2.2
8'	1.6	1.7	1.6
9'	1.2	1.3	1.2
10'	0.9	1.0	0.9

PHOTOMETRY - 900 SERIES LED DOWNLIGHT MODULE

White Baffle, Open
494WB06

Spacing Criteria = 1.3
Lumens per Watt = 63.18 LpW
Test No. P20256
Test Model: ML709835ICAT120D (3500K LED module)

Luminance

(Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	21002
55	5732
65	6224
75	5928
85	4401

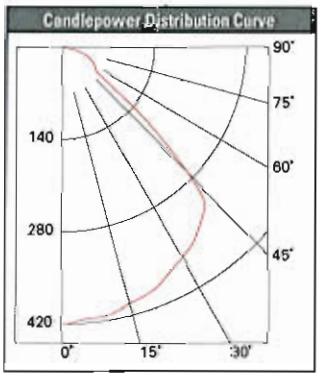
Candela Distribution

Degrees Vertical	Candela
0	418
5	411
15	399
25	378
35	351
45	271
55	60
65	48
75	28
85	7
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	14	11.4
7' 0"	9	14.5
8' 0"	7	16.5
9' 0"	5	18.6
10' 0"	4	20.7

Candlepower Distribution Curve



Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	328	N/A	36.8
0-40	547	N/A	61.4
0-60	808	N/A	90.6
0-90	891	N/A	100

Multiplier

Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 900 Series LEO use the appropriate multiplier.

White Baffle, Solite Lens
493WBS06

Spacing Criteria = 0.8
Lumens per Watt = 60.72 LpW
Test No. P20250
Test Modal: ML709835ICAT120D (3500K LED module)

Luminance

(Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	16585
55	5828
65	4409
75	3811
85	2515

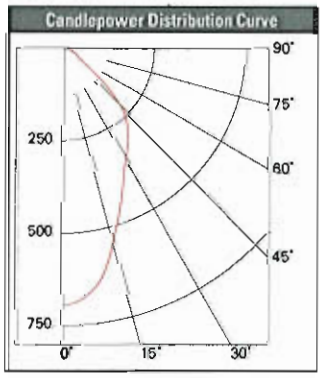
Candela Distribution

Degrees Vertical	Candela
0	692
5	672
15	528
25	383
35	301
45	214
55	61
65	34
75	18
85	4
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	23	8.6
7' 0"	14	10.9
8' 0"	11	12.5
9' 0"	9	14.0
10' 0"	7	15.6

Candlepower Distribution Curve



Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	389	N/A	45.5
0-40	578	N/A	67.7
0-60	797	N/A	100
0-90	854	N/A	100

Multiplier

Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 900 Series LEO use the appropriate multiplier.

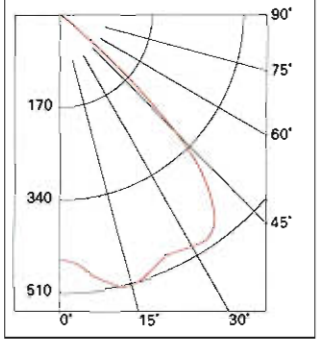
Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 900 SERIES LED DOWNLIGHT MODULE

Specular Clear, Open
494SC06

Spacing Criteria = 1.4
Lumens per Watt = 67.08 LpW
Test No. P20254
Test Model: ML709835ICAT120D (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	23792
55	191
65	130
75	0
85	0

Candela Distribution	
Degrees Vertical	Candela
0	446
5	461
15	511
25	482
35	488
45	307
55	2
65	1
75	0
85	0
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	16	11.3
7' 0"	10	14.3
8' 0"	7	16.4
9' 0"	6	18.4
10' 0"	5	20.5

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	414	N/A	43.8
0-40	716	N/A	75.8
0-60	944	N/A	99.9
0-90	945	N/A	100

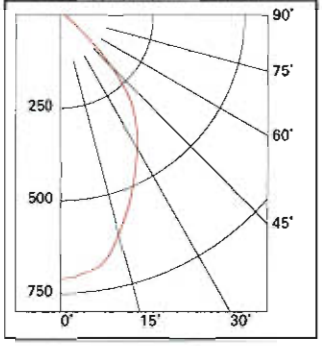
Multiplier				
Color Temperature as tested: 3500°K				
Color Tempereture	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 900 Series LED use the appropriate multiplier.

Specular Clear, Solite Lens
493SCS06

Spacing Criteria = 0.9
Lumens per Watt = 59.86 LpW
Test No. P20251
Test Model: ML709835ICAT120D (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	13020
55	2771
65	1556
75	212
85	0

Candela Distribution	
Degrees Vertical	Candela
0	710
5	698
15	607
25	468
35	347
45	168
55	29
65	12
75	1
85	0
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	23	8.8
7' 0"	14	11.2
8' 0"	11	12.8
9' 0"	9	14.4
10' 0"	7	15.9

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	453	N/A	53.7
0-40	669	N/A	79.4
0-60	828	N/A	98.3
0-90	843	N/A	100

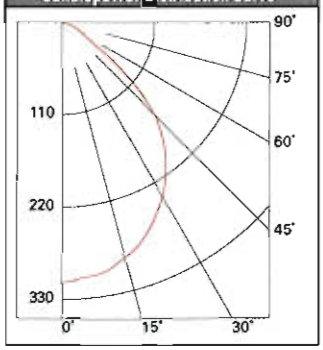
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 900 Series LED use the appropriate multiplier.

Frost Diffuse Lens
492PS06

Spacing Criteria = 1.2
Lumens per Watt = 42.17 LpW
Test No. P20247
Test Model: ML709835ICAT120D (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	12400
55	6306
65	3501
75	2964
85	1886

Candela Distribution	
Degrees Vertical	Candela
0	308
5	303
15	289
25	260
35	218
45	180
55	66
65	27
75	14
85	3
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	10	10.7
7' 0"	6	13.6
8' 0"	5	15.5
9' 0"	4	17.5
10' 0"	3	19.4

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	230	N/A	38.8
0-40	367	N/A	61.7
0-60	548	N/A	92.3
0-90	594	N/A	100

Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 900 Series LED use the appropriate multiplier.

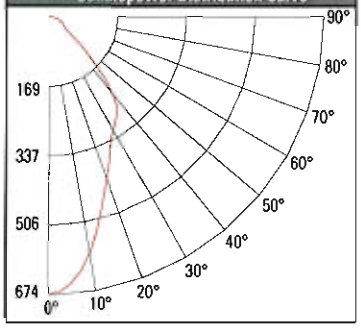
Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 900 SERIES LED DOWNLIGHT MODULE

White Reflector with Solite® Regressed Lens 493PS06

Spacing Criteria = 0.76
Lumens per Watt = 55.30 LpW
Test No. P85547
Test Model: ML709835ICAT120D (3500K LED module)

Candlepower Distribution Curve



Luminance

(Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	10494
55	3633
65	3164
75	2453
85	593

Candela Distribution

Degrees Vertical	Candela
0	674
5	649
15	494
25	356
35	291
45	158
55	48
65	35
75	21
85	4
90	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5' 6"	17	10.6
8' 0"	8	15.4
10' 0"	5	19.2
12' 0"	4	23.1
14' 0"	3	26.9

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	364	N/A	47.0
0-40	544	N/A	70.3
0-60	713	N/A	92.0
0-90	774	N/A	100

Multiplier

Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 900 Series LED use the appropriate multiplier.

PHOTOMETRY - 900 SERIES LED WALL WASH

Wall Wash, Semi-Specular Reflector with Specular Wall Wash Optic, Diffusing Lens and White Trim Ring - 495WW06

Spacing Criteria = 1.28
Lumens per Watt = 51.02 LpW
Test No. P85549
Test Model: ML709830ICAT120D (3000K LED module)

Luminance

(Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	15112
55	11072
65	6112
75	1377
85	373

Candela Distribution

Degrees Vertical	Candela
0	328
5	321
15	305
25	286
35	264
45	227
55	147
65	68
75	12
85	2
90	0

Zonal Lumen Summary

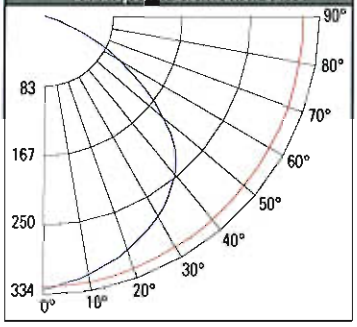
Zone	Lumens	% Lamp	% Fixture
0-30	261	N/A	36.6
0-40	428	N/A	59.9
0-60	668	N/A	93.6
0-90	714	N/A	100

Multiplier

Color Temperature as tested: 3000°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.9302	1.0000	1.0930	1.0977

Representative photometric test reports are as illustrated in combination with the designated Halo 900 Series LED Module in 3000°K color temperature. For typical lumen values with other color temperature options for 900 Series LED use the appropriate multiplier.

Candlepower Distribution Curve



2' from Wall - 2' On Center

Distance From Ceiling in Feet	← 2' →		
1'	16.1	16.9	16.1
2'	27.3	30.3	27.3
3'	18.1	19.8	18.1
4'	10.8	11.6	10.8
5'	6.7	7.1	6.7
6'	4.4	4.5	4.4
7'	3.0	3.0	3.0
8'	2.1	2.1	2.1
9'	1.5	1.5	1.5
10'	1.1	1.2	1.1

2' from Wall - 3' On Center

Distance From Ceiling in Feet	← 3' →		
1'	14.5	9.1	14.5
2'	22.9	21.8	22.9
3'	15.0	16.7	15.0
4'	9.4	10.4	9.4
5'	6.0	6.5	6.0
6'	4.0	4.3	4.0
7'	2.8	2.9	2.8
8'	2.0	2.1	2.0
9'	1.5	1.5	1.5
10'	1.1	1.1	1.1

2' from Wall - 4' On Center

Distance From Ceiling in Feet	← 4' →		
1'	14.2	4.0	14.2
2'	21.0	14.5	21.0
3'	13.1	13.3	13.1
4'	8.2	9.0	8.2
5'	5.3	5.9	5.3
6'	3.6	4.0	3.6
7'	2.5	2.8	2.5
8'	1.8	2.0	1.8
9'	1.4	1.5	1.4
10'	1.0	1.1	1.0

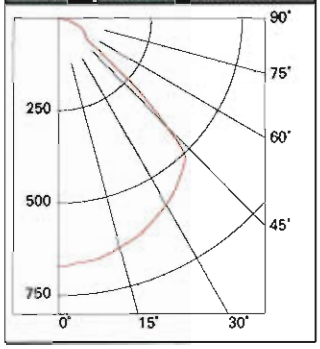
Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 1200 SERIES LED DOWNLIGHT MODULE

White Baffle, Open
494WB06

Spacing Criteria = 1.3
Lumens per Watt = 54.13 LpW
Test No. P20153
Test Model: ML712835TUNVD010 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	33635
55	9076
65	9855
75	9528
85	6916

Candela Distribution	
Degrees Vertical	Candela
0	671
5	661
15	641
25	605
35	559
45	434
55	95
65	76
75	45
85	11
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´ 6˝	22	11.4
8´ 0˝	10	16.5
10´ 0˝	7	20.7
12´ 0˝	5	24.8
14´ 0˝	3	28.9

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	524	N/A	36.8
0-40	875	N/A	61.4
0-60	1292	N/A	90.7
0-90	1424	N/A	100

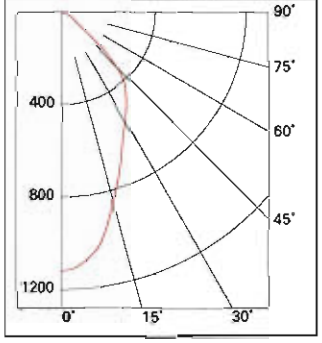
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 1200 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

White Baffle, Solite Lens
493WBS06

Spacing Criteria = 0.8
Lumens per Watt = 52.14 LpW
Test No. P20147
Test Model: ML712835TUNVD010 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	26815
55	9363
65	7132
75	6140
85	4401

Candela Distribution	
Degrees Vertical	Candela
0	1115
5	1082
15	854
25	623
35	488
45	346
55	98
65	55
75	29
85	7
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´ 6˝	37	8.6
8´ 0˝	17	12.5
10´ 0˝	11	15.6
12´ 0˝	8	18.7
14´ 0˝	6	21.8

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	630	N/A	45.6
0-40	936	N/A	67.7
0-60	1290	N/A	93.4
0-90	1382	N/A	100

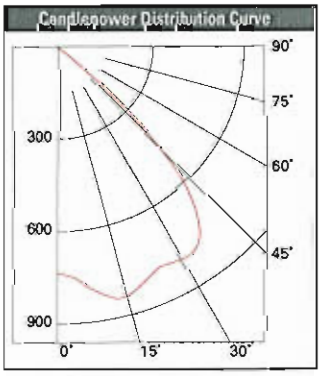
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 1200 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

Specular Clear, Open
494SC06

Spacing Criteria = 1.4
Lumens per Watt = 58.6 LpW
Test No. P20151
Test Model: ML712835TUNVD010 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	38595
55	382
65	130
75	0
85	0

Candela Distribution	
Degrees Vertical	Candela
0	732
5	756
15	838
25	786
35	789
45	498
55	4
65	1
75	0
85	0
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´ 6˝	26	11.3
8´ 0˝	12	16.4
10´ 0˝	8	20.5
12´ 0˝	5	24.6
14´ 0˝	4	28.7

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	676	N/A	43.8
0-40	1165	N/A	75.6
0-60	1543	N/A	100.2
0-90	1541	N/A	100

Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 1200 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

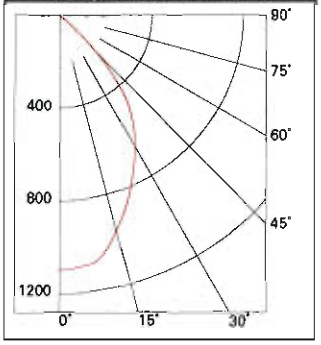
Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 1200 SERIES LED DOWNLIGHT MODULE

Specular Clear, Solite Lens
493SCS06

Spacing Criteria = 1.0
Lumens per Watt = 51.16 LpW
Test No. P20148
Test Model: ML712835TUNVD010 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	21080
55	4490
65	2593
75	423
85	0

Candela Distribution	
Degrees Vertical	Candela
0	1095
5	1084
15	966
25	759
35	560
45	272
55	47
65	20
75	2
85	0
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´6˝	36	8.9
8´0˝	17	13.0
10´0˝	11	16.2
12´0˝	8	19.5
14´0˝	6	22.7

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	725	N/A	53.4
0-40	1074	N/A	79.2
0-60	1332	N/A	98.2
0-90	1356	N/A	100

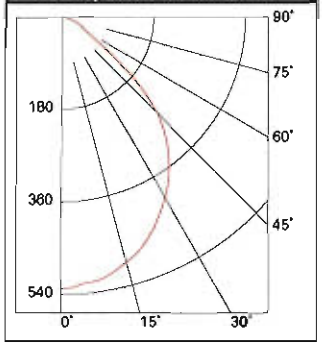
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 1200 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

Frost Diffuse Lens
492PS06

Spacing Criteria = 1.2
Lumens per Watt = 36.82 LpW
Test No. P20144
Test Model: ML712835TUNVD010 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	20692
55	10032
65	5705
75	4870
85	3144

Candela Distribution	
Degrees Vertical	Candela
0	528
5	519
15	493
25	440
35	368
45	267
55	105
65	44
75	23
85	5
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´6˝	17	10.6
8´0˝	8	15.4
10´0˝	5	19.2
12´0˝	4	23.1
14´0˝	3	26.9

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	392	N/A	39.3
0-40	621	N/A	62.3
0-60	922	N/A	92.5
0-90	997	N/A	100

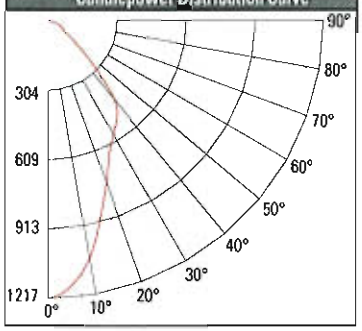
Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 1200 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

White Reflector with Solite® Regressed Lens
493PS06

Specing Criteria = 0.76
Lumens per Watt = 57.76 LpW
Test No. P85564
Test Model: ML712835TUNVD010 (3500K LED module)

Candlepower Distribution Curve



Luminance (Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	19103
55	6640
65	5807
75	4489
85	1186

Candela Distribution	
Degrees Vertical	Candela
0	1217
5	1169
15	892
25	640
35	529
45	287
55	88
65	65
75	39
85	7
90	0

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter (ft)
5´6˝	17	10.6
8´0˝	8	15.4
10´0˝	5	19.2
12´0˝	4	23.1
14´0˝	3	26.9

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	656	N/A	46.7
0-40	983	N/A	70.0
0-60	1291	N/A	92.0
0-90	1404	N/A	100

Multiplier				
Color Temperature as tested: 3500°K				
Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.8511	0.9149	1.0000	1.0043

Representative photometric test reports are as illustrated in combination with the designated Halo 1200 Series LED Module in 3500°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

PHOTOMETRY - 1200 SERIES LED WALL WASH

Wall Wash, Semi-Specular Reflector with Specular Wall Wash Optic, Diffusing Lens and White Trim Ring - 495WW06

Spacing Criteria = 1.28
Lumens per Watt = 53.36 LpW
Test No. P85566
Test Model: ML712830TUNVD010 (3000K LED module)

Luminance

(Average Candela/M²)	
Degrees	Avg. 0° Luminance
45	27705
55	20591
65	11649
75	2626
85	542

Candela Distribution

Degrees Vertical	Candela
0	596
5	580
15	551
25	521
35	481
45	416
55	273
65	130
75	23
85	3
90	0

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	474	N/A	36.5
0-40	775	N/A	59.8
0-60	1211	N/A	93.4
0-90	1297	N/A	100

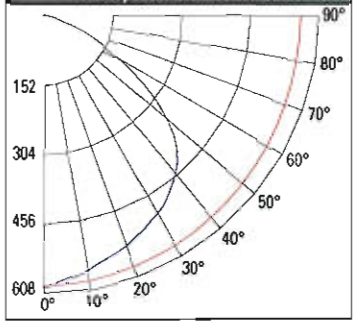
Multiplier

Color Temperature as tested: 3000°K

Color Temperature	2700°K	3000°K	3500°K	4000°K
Multiplier	0.9302	1.0000	1.0930	1.0977

Representative photometric test reports are as illustrated in combination with the designated Halo1200 Series LED Module in 3000°K color temperature. For typical lumen values with other color temperature options for 1200 Series LED use the appropriate multiplier.

Candlepower Distribution Curve



2' from Wall - 2' On Center

Distance From Ceiling in Feet	2'		
1'	30.5	32.3	30.5
2'	50.1	55.7	50.1
3'	32.9	36.0	32.9
4'	19.7	21.0	19.7
5'	12.2	12.8	12.2
6'	7.9	8.2	7.9
7'	5.4	5.5	5.4
8'	3.8	3.9	3.8
9'	2.7	2.8	2.7
10'	2.1	2.1	2.1

2' from Wall - 3' On Center

Distance From Ceiling in Feet	3'		
1'	27.3	17.5	27.3
2'	42.0	40.2	42.0
3'	27.3	30.4	27.3
4'	17.1	18.9	17.1
5'	10.9	11.9	10.9
6'	7.3	7.8	7.3
7'	5.0	5.3	5.0
8'	3.6	3.7	3.6
9'	2.6	2.7	2.6
10'	2.0	2.0	2.0

2' from Wall - 4' On Center

Distance From Ceiling in Feet	4'		
1'	26.7	8.0	26.7
2'	38.6	26.8	38.6
3'	23.8	24.2	23.8
4'	14.8	16.4	14.8
5'	9.7	10.8	9.7
6'	6.6	7.2	6.6
7'	4.6	5.0	4.6
8'	3.3	3.6	3.3
9'	2.5	2.6	2.5
10'	1.9	2.0	1.9

Photometric tests are per IES measurement standards. Tests represent typical SSL fixture performance. Field results may vary.

ORDERING INFORMATION

SAMPLE NUMBER:
For New Construction and Remodel: Complete unit includes H750x LED housing, ML7x LED Module, and 49x LED Trim, ordered separately.
For Retrofit into existing housing: Complete unit includes ML7x LED Module, and 49x LED Trim, ordered separately.
Housing: Refer to housing specification sheets for selection and details.
LED Module: ML7x LED Downlight Modules are compatible with this complete collection of 49x LED Downlight Trims.
Refer to 600 Series, 900 Series, or 1200 Series LED Module specification sheets for selection and details.

H7 LED Downlight Trims

494P06	White Reflector and white trim ring
494WB06	White Baffle and white trim ring
494H06	Haze Reflector and white trim ring
494SC06	Specular Clear Reflector and white trim ring
492PS06	Frost Lens, white baffle and trim ring, Shower rated
493WBS06	Solite® Regressed Lens, upper specular reflector, White baffle and trim ring, Shower rated
493SCS06	Solite® Regressed Lens, upper specular reflector, Specular Clear reflector and white trim ring, Shower rated
493H806	Solite® Regressed Lens, upper specular reflector, Haze reflector, and white trim ring, Shower rated
493SNS06	Solite® regressed Lens, upper specular reflector, Satin Nickel reflector and trim ring, Shower rated
493TBZS06	Solite® Regressed Lens, upper specular reflector, Tuscan Bronze reflector and trim ring, Shower rated
493BBS06	Solite® Regressed Lens, Black baffle with white trim ring, Shower rated
493PS06	Solite® Regressed Lens, upper specular reflector, White reflector and trim ring, Shower rated
495WW06	Wall wash with semi-specular clear reflector, specular kick reflector and lens, white trim ring
495PWW06	Wall wash with white reflector, specular kick reflector and lens, white trim ring

H7 LED Trims Accessories

494OPTIC	6" Over-Optic Diffuse Lens for use with Open LED Trims (494 family), Shower rated.

Oversize Trim Ring

DT490WH	6" Oversize white die-cast trim ring 9-1/4" O.D. Attaches to LED module, substitute for standard trim ring shipped with trims.
OT403P	Oversize White Plastic Ring, 6" I.D. x 8" O.D.Ring slips behind standard LED trim ring.
OT400P	Oversize White Metal Ring, 8" I.D. x 9-1/4" O.D.Ring slips behind standard LED trim ring.

Designer Trim Rings, Thin Profile

TRM490WH	White die-cast trim ring
TRM490SN	Satin Nickel die-cast trim ring
TRM490TBZ	Tuscan Bronze die-cast trim ring
TRM490BK	Black die-cast trim ring
TRM490PC	Polished Chrome die-cast trim ring

Note: Specifications and Dimensions subject to change without notice.

Similar Items At Lighting Universe

4043 - Outdoor Two-Light Pole Lantern
$340.20
Write a Review

4080 - Outdoor Post Light
$448.20
(1)

4080 - Outdoor Post Light
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(1)

4080 - Outdoor Post Light
$448.20
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Move mouse over image to zoom in

256811G

Trans Globe 4043 2 Light Pole Street and Area Light

by Trans Globe

List Price $297.50
Price **$340.20** + Free Shipping
You Save $68.04

1 Qty

This item is not for sale

Add to Compare | Add to Favorites | Add to Project

Return Policy

Dimensions

Height	93 inches
Diameter	32 inches

Quick Links

Dimensions | Q & A
Accessories | Manuals
Reviews | Brand Info

Overview

This post-top lantern features opal glass diffusers and a variety of finish options.

- Pole included.

Light Bulb	(2)100w A19 Med F Incand [Compare Bulbs]
Materials	Rust-Proof Cast Aluminum
Voltage	120 volt
Installation	Wet Locations [Explain]
Listing	UL, Quick Ship

Bulb sold separately

Coordinating Items

Trans Globe 4042 Posttop
$62.82

Trans Globe 4041 Outdoor
$62.82

Trans Globe 4040 2 Light
$34.20

Accessories

Light Bulbs
72A19SW/ECO - 2 bulbs - $9.21

Customer Reviews

INVUE™

ENC
ENTRI ROUND CLEAN

26-250W

Metal Halide

WhiteSON High Pressure Sodium

Compact Fluorescent

Quartz Halogen

ARCHITECTURAL WALL LUMINAIRE

- One piece die-cast aluminum construction. Accommodates either up or down mounting configuretions with no modifications
- One piece die-cast aluminum faceplate utilizes a continuous silicone gasket to seal securely to housing
- Side hinged faceplate swings open via release of one (1) flush mount die-cast aluminum latch on housing side panel
- Choice of ten (10) high efficiency optical systems
- Ballast and related electrical componentry are heat sunk to the housing
- Optional die-cast aluminum adapter box to allow for surface conduit wiring, quartz lamp options, and emergency battery pack capability
- Approximate net weight: 13 lbs. (6 kgs.)

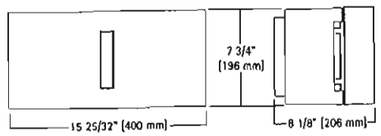
DESCRIPTION

ENTRI Series' family of modular faceplate designs provide a tasteful architectural statement equally suitable for indoor and outdoor environments. Available luminous faceplate window adds a signature look, while affording custom color capability.

DARK SKY COMPLIANT FCO Full Cutoff

In downlight only configurations with no faceplate window.

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: ENC-150-MH-120-EB-3S-BK-LG-L

Product Family	Lamp Wattage	Lamp Type	Voltage [5]	Ballast	Optical System	Colors (add as suffix/must specify) [11]	Options & Accessories
ENC=ENTRI Round Clean	**HID** [1] 39=39W 70=70W 100=100W 150=150W **Compact Fluorescent** [2] 26=26W 32=32W 42=42W 52=52W [3] 57=57W [4] 64=64W [3] 84=84W [3] **Halogen** [4] 100=100W 150=150W 250=250W	MH=Metal Halide WS=White SON High Pressure Sodium [6] CF=Compact Fluorescent [7] HL=Quartz Halogen	120=120V 208=208V 240=240V 277=277V 347=347V 480=480V DT=Dual-Tap Wired 277V [9] MT=Multi-Tap Wired 277V [10] TT=Triple-Tap Wired 347V [11] UNV=120-277V Universal Electronic Ballast	MB=Magnetic EB=Electronic Ballast [12] X=None (for Halogen Lamp)	**Downlight or Uplight (HID or Halogen)** 3S=Type III FT=Forward Throw FX=Wall Grazing Optic TS=Tight Spot **Downlight and Uplight (HID and Halogen)** 3SG=Type III, 90% Main/10% Secondary Glow 3SP=Type III with Pencil Secondary FTG=Forward Throw, 90% Main/ 10% Secondary Glow FTP=Forward Throw with Pencil Secondary FXF=Wall Grazing Optic, 50% up/50% Down TSF=Tight Spot, 60% up/50% Down **Compact Fluorescent** CFG=90% Main + 10% Secondary Glow CFM=100% Main, Up or Downlighting	BK=Black AP=Grey BZ=Bronze WH=White DP=Dark Platinum GM=Graphite Metallic	(See Below)

Optional Luminous Faceplate Insert [13]	Options [14]	Accessories [15]
LG=Luminous Glass Insert LGO=Luminous Glass Insert with Warm Orange Gel LGR=Luminous Glass Insert with Red Gel LGB=Luminous Glass Insert with Bright Blue Gel LGG=Luminous Glass Insert with Deep Green Gel	F=Single Fuse (120, 277 or 347V) Specify Voltage FF=Double Fuse (208, 240 or 480V) Specify Voltage DSAB=Dual Fluorescent Switching Control Adapter Box [16] QAB=Quartz Restrike Adapter Box EMAB=Quartz Restrike with Delay Adapter Box (Also Strikes at Cold Start) EM/SCAB=Quartz Emergency Separate Circuit Adapter Box CF/EMAB=Emergency Battery Backup Adapter Box (Specify 120 or 277V) [17] PC=Button Type Photocontrol (specify voltage) WG=Wire Guard [17] FRM=Frosted Main Flat Glass FRS=Frosted Secondary Flat Glass [18] L=Lamp Included (Standard for all Halogen lamps)	VA2001-XX=Thru-way Box VA2002-XX=Wire Guard Kit

WATTAGE TABLE	ENC
Metal Halide	39, 70, 100, 150W
White Son HPS	100W
Compact Fluorescent	26, 32, 42, 57W
Dual Compact Fluorescent	(2) 26, (2) 32, (2) 42W
Quartz Halogen	100, 150, 250W

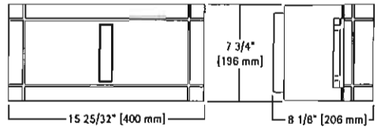
Certifications

IP65 Rated	U.L. 1598		FCO Full Cutoff
CSA Listed	40°C Ambient	ISO 9001	

NOTE: 250W Quartz requires thru-way mounting box. 150W requires magnetic ballast.

NOTES: 1 All MH lamps are T6 envelope with G12 lamp base. All HPS lamps are T6 envelope with GX12 lamp base. 2 All 26/32/42/57W CF lamps feature a 4-pin lamp base. Available in CFM and CFG distributions only. 3 Dual compact fluorescent lamps. 4 Nominal M.O.L lamp length of 57W CFL not to exceed 7". 5 All Halogen lamps are T4 envelope with mini-can base, 120V lamp. 6 WhiteSON HPS lamp available in 100W only. Requires electronic ballast. 120/277V only. Includes use of VA2001 accessory Thru-way Box. 7 Compact Fluorescent ballasts contain internal fusing. No supplemental fusing is necessary. CF ballasts are 120 through 277V. Specify with UNV voltage designation. 8 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information. 9 Dual-tap is 120/277V wired 277V. 10 Multi-tap is 120/208/240/277V wired 277V. 11 Triple-tap is 120/277/347V wired 347V. 12 120 through 277V only. Electronic ballasts contain internal fusing, no supplemental fusing is necessary. Electronic ballast available with all CF lamps, and 39/70/100W MH lamps. Available with 150W MH lamp. Includes VA2001 accessory Thru-way Box. Not available with QAB or EMAB options. 13 Custom and RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information. 14 Add as suffix in the order shown. 15 Dual switching requires dual 26, 32 or 42W Compact Fluorescent lamps. Allows independent switching control of each lamp through use of two (2) electronic ballasts. Allows 50% power reduction when dual ballasts are independently wired and controlled. 16 CF lamps only. Battery backup operates 90 minutes at minimum 32°F (0°C), 42W maximum. 17 For use in down lighting applications only. 18 Frosted secondary lens provided standard on 3SG, FTG, and CFG distributions. 19 Order separately, replace XX with color suffix. 20 Specifications and dimensions subject to change without notice.

DIMENSIONS



DESCRIPTION

ENTRI Series' family of modular faceplate designs provide a tasteful architectural statement equally suitable for indoor and outdoor environments. Available luminous faceplate window adds a signature look, while affording custom color capability.

DARK SKY COMPLIANT FCO Full Cutoff

In downlight only configurations with no faceplate window.

ORDERING INFORMATION

SAMPLE NUMBER: ENV-150-MH-120-EB-3S-BK-LG-L

Product Family	Lamp Wattage	Lamp Type	Voltage [5]	Ballast	Optical System	Colors (add as suffix/must specify) [11]	Options & Accessories
ENV=ENTRI Round Reveals	**HID** [1] 39=39W 70=70W 100=100W 150=150W **Compact Fluorescent** [2] 26=26W 32=32W 42=42W 52=52W [3] 57=57W [4] 64=64W [3] 84=84W [3] **Halogen** [4] 100=100W 150=150W 250=250W	MH=Metal Halide WS=White SON High Pressure Sodium [6] CF=Compact Fluorescent [7] HL=Quartz Halogen	120=120V 208=208V 240=240V 277=277V 347=347V 480=480V DT=Dual-Tap Wired 277V [9] MT=Multi-Tap Wired 277V [10] TT=Triple-Tap Wired 347V [11] UNV=120-277V Universal Electronic Ballast	MB=Magnetic EB=Electronic Ballast [12] X=None (for Halogen Lamp)	**Downlight or Uplight (HID or Halogen)** 3S=Type III FT=Forward Throw FX=Wall Grazing Optic TS=Tight Spot **Downlight and Uplight (HID and Halogen)** 3SG=Type III, 90% Main/10% Secondary Glow 3SP=Type III with Pencil Secondary FTG=Forward Throw, 90% Main/ 10% Secondary Glow FTP=Forward Throw with Pencil Secondary FXF=Wall Grazing Optic, 50% up/50% Down TSF=Tight Spot, 50% up/50% Down **Compact Fluorescent** CFG=90% Main + 10% Secondary Glow CFM=100% Main, Up or Downlighting	BK=Black AP=Grey BZ=Bronze WH=White DP=Dark Platinum GM=Graphite Metallic	(See Below)

Optional Luminous Faceplate Insert [13]	Options [14]	Accessories [15]
LG=Luminous Glass Insert LGO=Luminous Glass Insert with Warm Orange Gel LGR=Luminous Glass Insert with Red Gel LGB=Luminous Glass Insert with Bright Blue Gel LGG=Luminous Glass Insert with Deep Green Gel	F=Single Fuse (120, 277 or 347V) Specify Voltage FF=Double Fuse (208, 240 or 480V) Specify Voltage DSAB=Dual Fluorescent Switching Control Adapter Box [16] QAB=Quartz Restrike Adapter Box EMAB=Quartz Restrike with Delay Adapter Box (Also Strikes at Cold Start) EM/SCAB=Quartz Emergency Separate Circuit Adapter Box CF/EMAB=Emergency Battery Backup Adapter Box (Specify 120 or 277V) [17] PC=Button Type Photocontrol (specify voltage) WG=Wire Guard [17] FRM=Frosted Main Flat Glass FRS=Frosted Secondary Flat Glass [18] L=Lamp Included (Standard for all Halogen lamps)	VA2001-XX=Thru-way Box VA2002-XX=Wire Guard Kit

WATTAGE TABLE	ENV
Metal Halide	39, 70, 100, 150W
White Son HPS	100W
Compact Fluorescent	26, 32, 42, 57W
Dual Compact Fluorescent	(2) 26, (2) 32, (2) 42W
Quartz Halogen	100, 150, 250W

Certifications

IP65 Rated	U.L. 1598		FCO Full Cutoff
CSA Listed	40°C Ambient	ISO 9001	

NOTE: 250W Quartz requires thru-way mounting box. 150W requires magnetic ballast.

NOTES: 1 All MH lamps are T6 envelope with G12 lamp base. All HPS lamps are T6 envelope with GX12 lamp base. 2 All 26/32/42/57W CF lamps feature a 4-pin lamp base. Available in CFM and CFG distributions only. 3 Dual compact fluorescent lamps. 4 Nominal M.O.L lamp length of 57W CFL not to exceed 7". 5 All Halogen lamps are T4 envelope with mini-can base, 120V lamp. 6 WhiteSON HPS lamp available in 100W only. Requires electronic ballast. 120/277V only. Includes use of VA2001 accessory Thru-way Box. 7 Compact Fluorescent ballasts contain internal fusing. No supplemental fusing is necessary. CF ballasts are 120 through 277V. Specify with UNV voltage designation. 8 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information. 9 Dual-tap is 120/277V wired 277V. 10 Multi-tap is 120/208/240/277V wired 277V. 11 Triple-tap is 120/277/347V wired 347V. 12 120 through 277V only. Electronic ballasts contain internal fusing, no supplemental fusing is necessary. Electronic ballast available with all CF lamps, and 39/70/100W MH lamps. Available with 150W MH lamp. Includes VA2001 accessory Thru-way Box. Not available with QAB or EMAB options. 13 Custom and RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information. 14 Add as suffix in the order shown. 15 Dual switching requires dual 26, 32 or 42W Compact Fluorescent lamps. Allows independent switching control of each lamp through use of two (2) electronic ballasts. Allows 50% power reduction when dual ballasts are independently wired and controlled. 16 CF lamps only. Battery backup operates 90 minutes at minimum 32°F (0°C), 42W maximum. 17 For use in down lighting applications only. 18 Frosted secondary lens provided standard on 3SG, FTG, and CFG distributions. 19 Order separately, replace XX with color suffix. 20 Specifications and dimensions subject to change without notice.

ENV
ENTRI ROUND REVEALS

26-250W

Metal Halide

WhiteSON High Pressure Sodium

Compact Fluorescent

Quartz Halogen

ARCHITECTURAL WALL LUMINAIRE

- One piece die-cast aluminum construction. Accommodates either up or down mounting configurations with no modifications
- One piece die-cast aluminum faceplate utilizes a continuous silicone gasket to seal securely to housing
- Side hinged faceplate swings open via release of one (1) flush mount die-cast aluminum latch on housing side panel
- Choice of ten (10) high efficiency optical systems
- Ballast and related electrical componentry are heat sunk to the housing
- Optional die-cast aluminum adapter box to allow for surface conduit wiring, quartz lamp options, and emergency battery pack capability
- Approximate net weight: 13 lbs. (6 kgs.)