III. A.

City of Chesterfield

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

Architectural Review Board Staff Report

Project Type: Amended Site Plan

Meeting Date: February 12, 2015

From: Jessica Henry
Project Planner

Cc: Aimee Nassif, Planning & Development Services Director

Location: 1173 Pompeii Drive

Applicant: Nova Group, LLC on behalf of Gershman Comm. R.E.

Description: **Forum Apartments:** An Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 6.9 acre tract of land zoned "R-6A" and "R-7" Residence District located north of the intersection of Coliseum Drive and Woods Mill Road.

PROPOSAL SUMMARY

The request is for a 3,222 square foot club house building located within the Forum Apartments development. The subject site is a multi-family apartment complex zoned "R-6A" and "R-7" Residential District and was constructed in 1972 according to St. Louis County property records. The exterior building materials of the club house will be comprised of EIFS, brick, and a clay tile mansard roof all to match the existing architecture of the development.

HISTORY OF SUBJECT SITE

St. Louis County approved a rezoning from the "R-2" Residence District to the "R-7" Residence District for the easternmost portion of the site in 1966. In 1972, the remaining portion of the site was rezoned from the "R-2" Residence District to the "R-6A" Residence District." The development consists of 154 apartment units.

A demolition permit was issued for the original clubhouse in 2014.

STAFF ANALYSIS
General Requirements for Site Design:

A. Site Relationships
The subject site is located to the east of the Forum West residential development and northeast of the Forum Center commercial development. To the west of the development is the Woodchase Apartments development and to the south is a mix of commercial uses, including a fueling station, retail center, and restaurant.

The proposed clubhouse building will be sandwiched between two residential buildings in the space previously occupied by the original clubhouse. A new in ground swimming is proposed directly north of the clubhouse and an existing parking lot is directly south. No changes are proposed to any of the surrounding structures or parking areas as part of this request.

B. Circulation System and Access
No changes are proposed to the existing accesses and vehicular site circulation will be unaffected by the project as the proposed clubhouse will be located at the interior of the site.

Pedestrian access and circulation around the pool and clubhouse is facilitated via well-lit concrete sidewalks that connect with the existing sidewalks and common areas. An accessible route from the accessible spaces in the south parking area to the clubhouse and pool is provided.

C. Topography
The topography design retains the existing slope and is blended to meet the existing site elements. Minimal changes to the existing topography are planned and a retaining wall, discussed below, will be used where significant changes in slope are required.

D. Retaining Walls
Modular block walls ranging from one foot to five feet in height are proposed along the western elevation of the clubhouse and along the northern perimeter of the in ground pool deck.

General Requirements for Building Design:

A. Scale
The applicant is proposing a building of approximately seventeen feet in height and 3,222 square feet in size, which is significantly smaller than the surrounding three story apartment buildings.

As noted in the Architect's Statement of Design, the entry alcove and covered walkway are designed to the human scale. Additionally, architectural elements, such as the window sill heights and arched openings, match the surrounding buildings providing a "contextual rhythm."

B. Design
The proposed clubhouse is similar to the surrounding apartment buildings in both materials and design, as shown by the photos of the existing buildings provided by the applicant. The south elevation of the clubhouse that will be facing the parking area consists entirely of brick. The east elevation is partial brick, with the remaining portion, as well as the west and south elevations, to consist of EIFS. This is consistent with the surrounding buildings.

The mansard roof includes a 40 inch parapet wall that will screen rooftop mounted mechanical equipment when viewed from the surrounding parking and pool deck areas. The in ground pool will be surrounded by a barrier fence that will be six feet in height.

C. Materials and Color
The proposed earth tone EIFS and clay roof tiles were chosen to match the existing buildings within the apartment complex.

D. Landscape Design and Screening
All existing landscaping is to remain and additional landscape beds will be planted along the northeastern perimeter of the in ground swimming pool and along the sidewalk that is proposed along the western elevation of the clubhouse. Two new redbud trees are proposed just north of the in ground swimming pool.

E. Signage
Signage is not part of the proposal before Architectural Review Board and will be reviewed by Staff.

F. Lighting
The plan proposes two pole mounted light fixtures along the eastern perimeter of the pool deck and eleven wall pack style light fixtures attached to the proposed clubhouse building. All fixtures are full cut-

off, fully shielded, and are intended to provide a well-lit, safe environment for residents and users of the pool and clubhouse.

DEPARTMENTAL INPUT

Staff is requesting recommendations from the ARB on the Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Be advised, this project is still going through development review by City Staff and will not be granted approval until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's ongoing review of the project.

MOTION

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

1) "I move to recommend the Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for the Forum Apartments, as presented, for approval (or denial) to Staff."

2) "I move to recommend the Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for the Forum Apartments, as presented, for approval (or denial) to Staff with the following recommendations…"

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 01/29/15

Project Title: Forum Apartments **Location:** 1173 Pompeii Drive Chesterfield, MO 63017

Developer: Gershman Comm. R. E. **Architect:** Nova Group, Inc. **Engineer:** CEDC

PROJECT STATISTICS:

Size of site (in acres): 6.9 ac **Total Square Footage:** 3,222 s.f. **Building Height:** 17'

Proposed Usage: Clubhouse with restrooms, laundry, fitness, business center and leasing office space.

Exterior Building Materials: Face brick, EIFS, aluminum storefront and glass, sheet metal roofing.

Roof Material & Design: Modified bitumen membrane.

Screening Material & Design: 4'-0" mansard roof edge detail with stone coated roofing tiles.

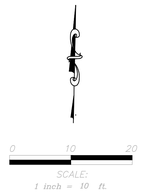
Description of art or architecturally significant features (if any): Masonry arched window openings and tile mansard roof edge matching existing buildings in scale, materials, and color.

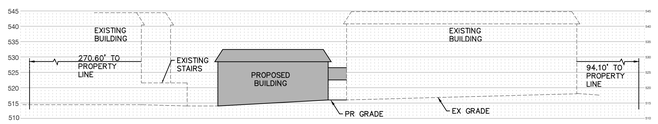
ADDITIONAL PROJECT INFORMATION:

In-ground concrete pool and surrounding pool deck with 6' barrier fence to secure perimeter.

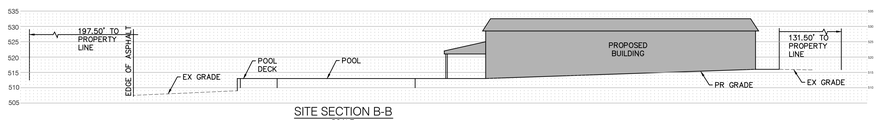
Checklist: **Items to be provided in an 11" x 17" format**

- [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.**
- [x] **Details of screening, retaining walls, etc.**
- [ ] **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)**
- [ ] **Any other exhibits which would aid understanding of the design proposal. (as applicable)**
- [x] **Pdf files of each document required.**

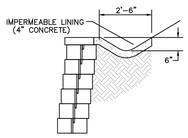




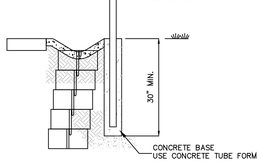
SITE SECTION A-A
SCALE:
HORZ/VERT – 1"=20'



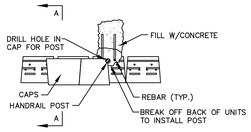
SITE SECTION B-B
SCALE:
HORZ/VERT – 1"=20'



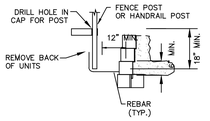
DITCH DETAIL
SCALE: NONE



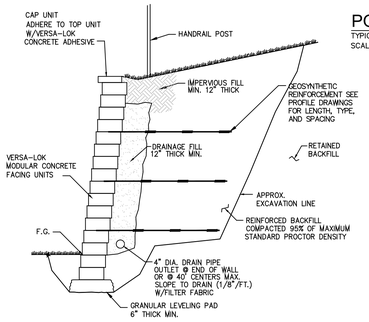
POST DETAIL
SCALE: NONE
FOR RETAINING WALLS W/ CHAIN LINK FENCE



POST DETAIL-PLAN VIEW
TYPICAL HANDRAIL AND/OR FENCE POST
SCALE: NONE



POST DETAIL-SECTION A-A
TYPICAL HANDRAIL AND/OR FENCE POST
SCALE: NONE



TYPICAL SECTION-REINFORCED RETAINING WALL

MODULAR CONCRETE UNIT
SCALE: NONE

NOTES:
1.) REFER TO THIS DRAWING FOR WALL PROFILE AND HEIGHT ONLY. DESIGN OF WALL SHALL BE BY OTHERS.
2.) TYPE OF WALL TO BE DETERMINED BY OWNER AND ARCHITECT. FENCE TYPE, COLOR/STYLE/ETC. TO BE COORDINATED WITH ARCHITECT.
3.) STRUCTURAL CALCULATIONS TO BE PROVIDED BY WALL MANUFACTURER OR STRUCTURAL ENGINEER. PERMITS FOR WALL TO BE OBTAINED BY CONTRACTOR.
4.) THE WALL MANUFACTURER SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT IF ONE HAS BEEN PREPARED FOR THIS PROJECT AND COMPLY WITH THE REQUIREMENTS OUTLINED IN REPORT.
5.) HORIZONTAL LOCATION OF BASE OF WALL IS SUBJECT TO FINAL WALL DESIGN AND WALL BATTER.
6.) CONTRACTOR TO ACCOUNT FOR WALL BATTER WHEN STAKING OUT WALL AND BUILDING WALL.

ST. LOUIS CO. HT #

BRANDON A. HARP, P.E. 20451
CIVIL ENGINEER ~ MISSISSIPPI
CEDC LICENSE NO.: E-00002498

CEDC
CIVIL ENGINEERING
DESIGN CONSULTANTS
11402 Gravois Road
Suite 100
Saint Louis, Missouri 63126
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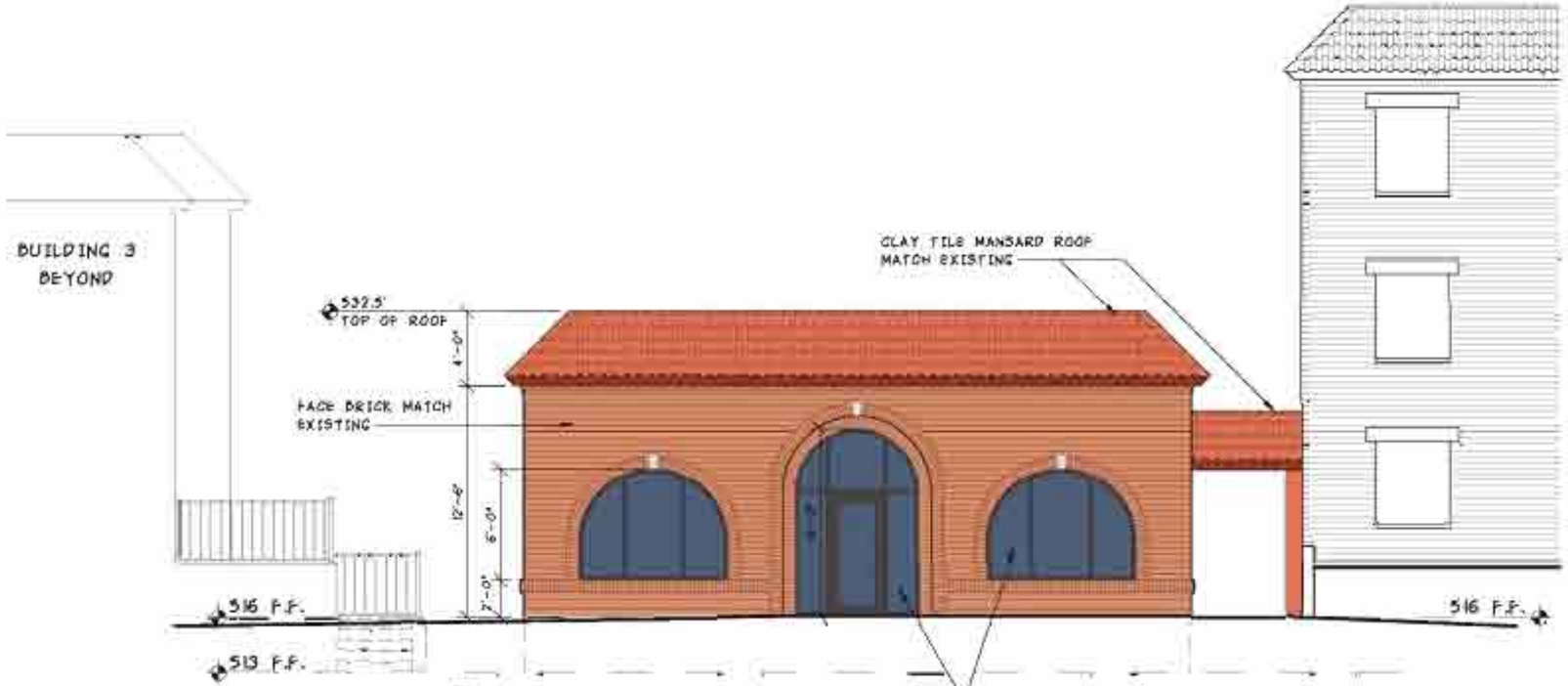
800.314.2723
314.729.1404
www.cedc.net

Amended Site Plan
FORUM CONDOMINIUMS
1173 Pompeii Drive
Chesterfield, Missouri, 63005

Proj. #	1382	
No.	Description	Date
	City Submittal	01.05.15

Site Plan

SD2



1 SOUTH ELEVATION
A-1 A-2
SCALE: 1/8" = 1'-0"

2 NORTH ELEVATION
A-1 A-2
SCALE: 1/8" = 1'-0"

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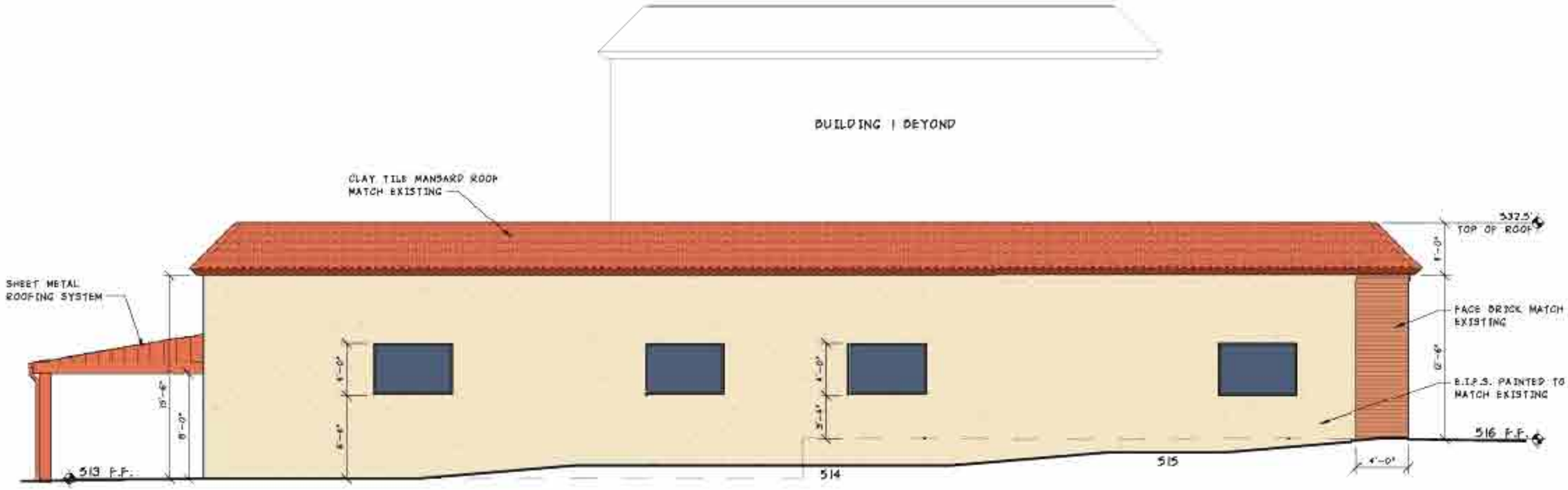
GERSHMAN COMMERCIAL REAL ESTATE
FORUM APARTMENTS
CLUBHOUSE
1173 POMPEII DRIVE
CHESTERFIELD, MO 63017

NOVA GROUP INC.
ARCHITECTS AND ENGINEERS
6312 MANCHESTER COURT SUITE 102
MAPLEWOOD, MISSOURI 63143 (314) 781-8300

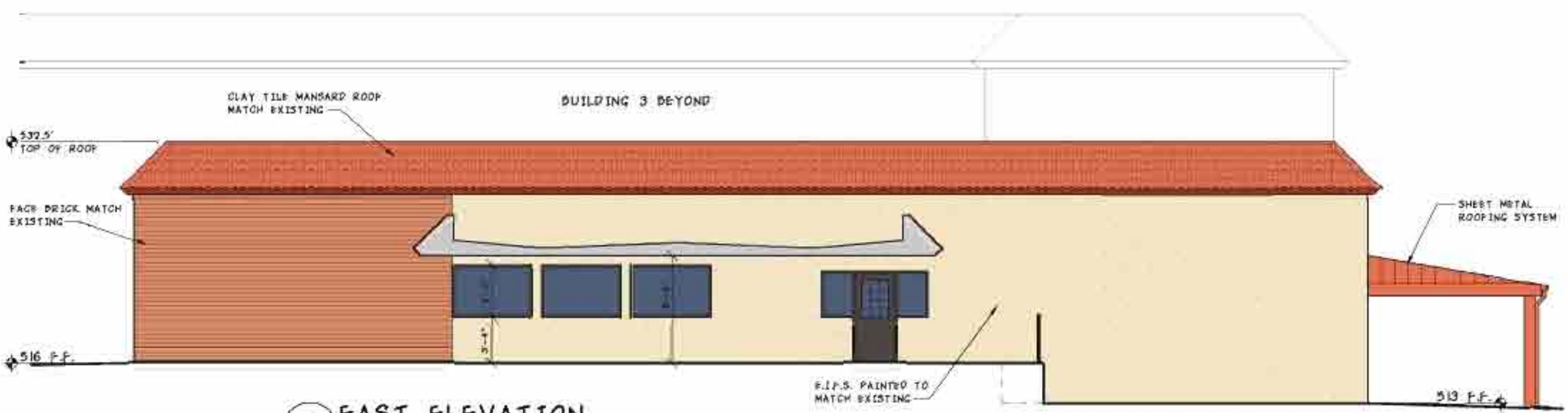
project no. 240326
drawn by JDS
date 1/27/15
revision

COLORED ELEVATIONS

A-1
sheet 1 of 2



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



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

GERSHMAN COMMERCIAL REAL ESTATE
FORUM APARTMENTS
CLUBHOUSE
1173 POMPEII DRIVE
CHESTERFIELD, MO 63017

NOVA GROUP INC.
ARCHITECTS AND ENGINEERS
6312 HAZELWOOD COURT SUITE 110
HAZELWOOD, MISSOURI 63042 (314) 731-5300

project no. 240326
drawn by JDS
date 1/27/15
revision

COLORED ELEVATIONS

A-2
sheet 2 of 2

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FORUM APARTMENTS

NEW CLUBHOUSE & POOL

1/29/15

ADJACENT SOUTH PROPERTY

ADJACENT EAST PROPERTY

ADJACENT NORTH PROPERTY

ADJACENT WEST PROPERTY

DEMO COMPLETE SOUTH

DEMO COMPLETE NORTH

LOOKING EAST

LOOKING WEST

FORMER CLUBHOUSE SOUTH

FORMER CLUBHOUSE NORTH

NOVA GROUP INC.

ARCHITECTS AND ENGINEERS

January 29, 2015

Forum Apartments
New Clubhouse and Pool
1173 Pompeii
Chesterfield, Missouri
Project No. 214032-B

STATEMENT OF DESIGN

Intent of the Project:

The intent of this project is to replace the existing Clubhouse and Pool facilities for apartment complex resident use that is compatible with the existing architectural elements, energy efficient and accessible. The 3,222 S.F. Clubhouse includes restrooms, shower, laundry, fitness area, business center and leasing office spaces. The pool facility includes a 1,080 S.F. in-ground, concrete swimming pool and surrounding concrete pool deck with six foot (6'-0") barrier fence to secure the perimeter.

Addressing Design Standards:

1. Site Design:

    a. Site Relationships:
    The design provides safe integrated pedestrian movement around east and west sides of the building connecting the parking, laundry and pool deck public assembly area.
    b. Circulation System and Access:
    The new concrete sidewalks at the west and east sides of the building are well illuminated and provide pedestrian orientation that connects with the existing sidewalks and common areas. The west sidewalk provides an accessible route from handicap parking spaces at the south elevation to the pool deck located at the north elevation.
    c. Topography:
    The topography design retains the natural slope and blends to meet existing adjacent sidewalks, courtyards, lawn areas and parking.
    d. Retaining Walls:
    The new modular concrete block retaining wall at the west and north perimeter of the pool deck ranges in height from 1' to 5' to accommodate existing contours.

6312 HAZELWEST COURT SUITE 102
HAZELWOOD, MISSOURI 63042 (314) 731-5353

2. General Requirements for Building Design:

   a. Scale:
   The building footprint orientation matches the existing complex of buildings. The mansard roof detail matches existing mansard dimension, geometry and color and provides a transition to the existing east building to visually reduce the difference in height, since accessibility requires single story design. The proposed Clubhouse building is 17' high with the existing adjacent three-story apartment building approximately 26' high to the west and 30' high to the east. Human scale is achieved with the entry alcove and the covered walkway. Contextural rhythm is established with matching window sill heights and similarly proportioned arched openings.

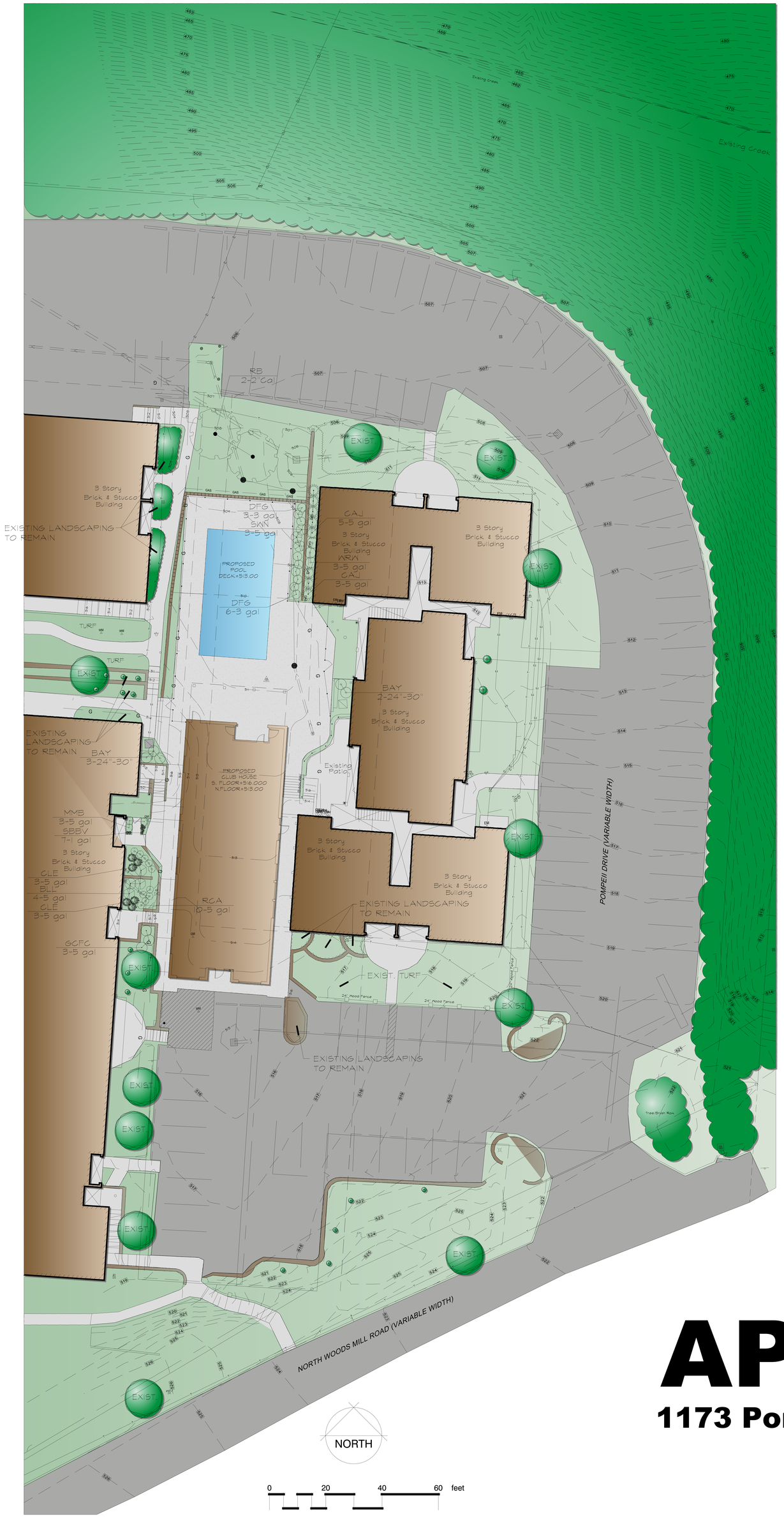
   b. Design:
   Masonry, plaster and tile roofing materials match existing buildings in color and texture. Masonry detailing at the arched openings are at entry level. Insulated tinted glazing and EIFS wall cladding enhance the energy efficiency of the proposed building. The recessed entry, pool deck canopy and covered walkway indicate circulation and provide protection. The mansard roof detail integrates a 40" parapet wall that screens rooftop mechanical equipment when viewed from the surrounding parking and pool deck areas.

   c. Materials and Colors:
   Masonry, plaster and tile roofing materials match existing buildings in color and texture.

   d. Landscape Design and Screening:
   Proposed landscaping around the new clubhouse and pool will greatly improve and enhance the existing landscaping. This small area near the center of the Forum Apartments development does not fall under the City of Chesterfield requirements for street trees, parking lot plantings or for screening plant materials.

   e. Signage:
   Separate sign submittal package will be submitted by Gershman Commercial Real Estate on behalf of the Owner.

   f. Lighting:
   The new concrete sidewalks, building entrance, covered walkway and pool deck are well illuminated with new exterior lighting. The building area is designed with a proposed 3.25 Fc average illumination and the pool deck area a proposed 5.94 Fc average illumination



PLANT SCHEDULE

TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
RB	2	Redbud / Cercis canadensis	2"Cal
SHRUBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE
BLL	4	Bloomerang Lilac / Syringa x 'Penda'	5 gal
CAJ	8	Compact Andorra Juniper / Juniperus horizontalis 'Plumosa Compacta'	5 gal
GCFC	3	Golden Charm False Cypress / Chamaecyparis pisifera filifera 'Golden Charm'	5 gal
MMB	3	Morris Midget Boxwood / Buxus microphylla japonica 'Morris Midget'	5 gal
BAY	5	Northern Bayberry / Myrica pensylvanica	24"-30"
RCA	10	Rose Creek Abelia / Abelia x grandiflora 'Rose Creek'	5 gal
SWN	3	Summer Wine Ninebark / Physocarpus opulifolius 'Summer Wine'	5 gal
WRW	3	Wine & Roses Weigela / Weigela florida 'Wine & Roses'	5 gal
CLE	6	'Hummingbird' Summersweet / Clethra alnifolia 'Hummingbird'	5 gal
ANNUALS/PERENNIALS	QTY	COMMON NAME / BOTANICAL NAME	SIZE
SBBV	7	Sunny Border Blue Veronica / Veronica 'Sunny Border Blue'	1 gal
GRASSES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
DFG	9	Dwarf Fountain Grass / Pennisetum alopecuroides 'Hameln'	3 gal

landscape TECHNOLOGIES
67 Jacobs Creek Drive (636) 928-1250
St. Charles, Missouri 63304 Fax: (636) 928-4563
MO Landscape Architectural Corporation #2008008782

CEDC
CIVIL ENGINEERING
DESIGN CONSULTANTS
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St. Louis, Missouri 63126
(314) 729-1400

NOVA GROUP INC.
ARCHITECTS AND ENGINEERS
6312 HAZELWEST COURT SUITE 102
HAZELWOOD, MISSOURI 63042 (314) 731-5353

FORUM APARTMENTS

1173 Pompeii Chesterfield, Missouri 63017

McGRAW-EDISON®

DESCRIPTION

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

Catalog #		Type
Project		SA
Comments		Date
Prepared by		

SPECIFICATION FEATURES

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

Optics
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

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

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

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

Warranty
Five-year warranty.

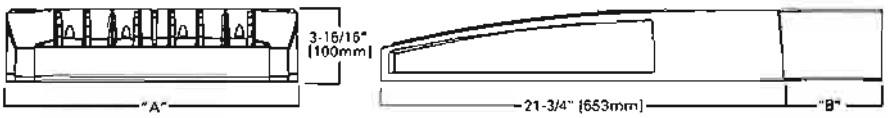
GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

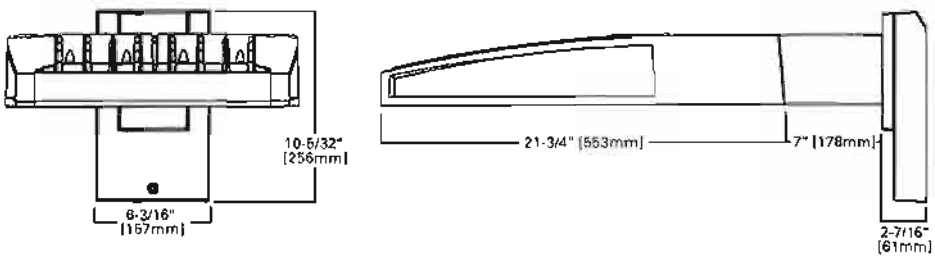
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

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

NOTES: 1 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2 EPA calculated with optional arm length.

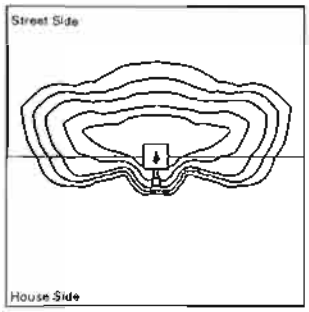
CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

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

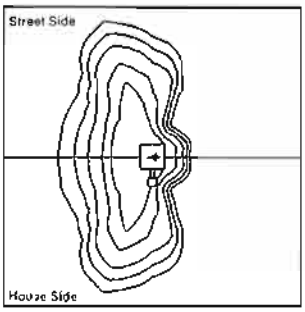
Cooper Lighting
by EATON

*www.designlights.org

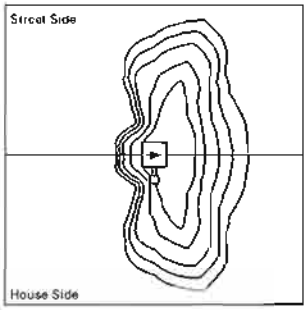
OPTIC ORIENTATION



Standard



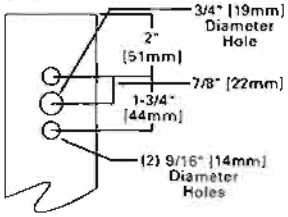
Optics Rotated Left @ 90° [L90]



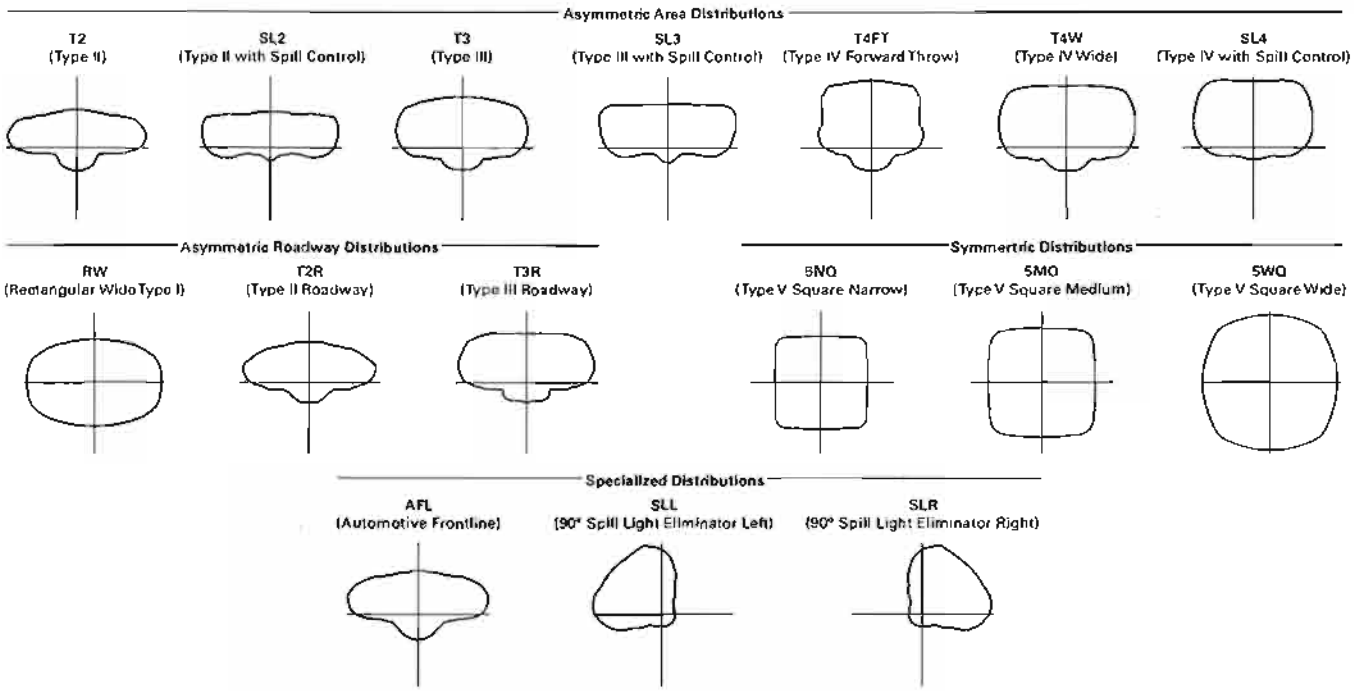
Optics Rotated Right @ 90° [R90]

DRILLING PATTERN

TYPE "N"

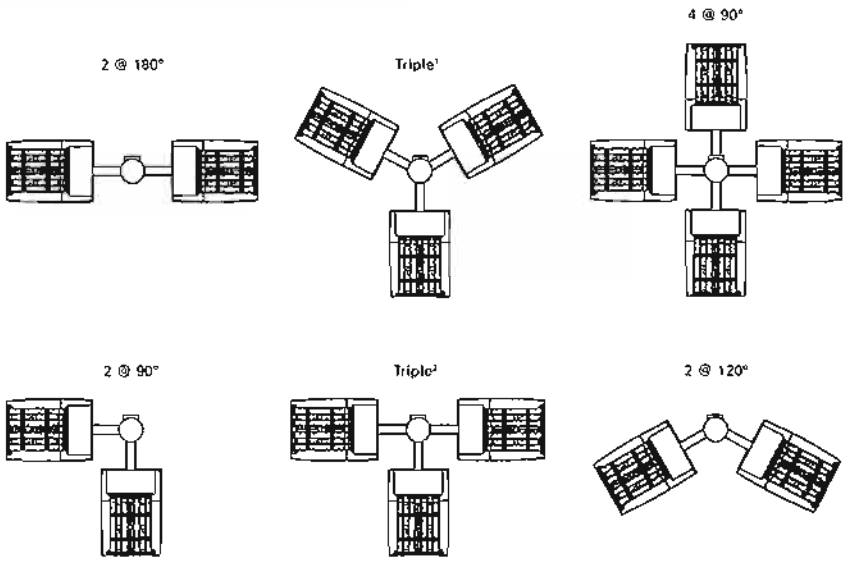


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

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



NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	526
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,818	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,874	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,869	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,366
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,881	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,608	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)		0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)		0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,846	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

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

ORDERING INFORMATION

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

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

Options (Add as Suffix)	Accessories (Order Separately)
2L=Two Circuits [7,8]	OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
7030=70 CRI 3000K [9]	OA/RA1027=NEMA Photocontrol - 480V
7060=70 CRI 6000K [9]	OA/RA1201=NEMA Photocontrol - 347V
530=Drive Current Factory Set to 530mA [10]	OA/RA1013=Photocontrol Shorting Cap
700=Drive Current Factory Set to 700mA [10]	OA/RA1014=120V Photocontrol
F=Single Fuse (120, 277 or 347V. Must Specify Voltage)	MA1252=10kV Surge Module Replacement
FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)	MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
P=Button Type Photocontrol (120, 208, 240 or 277V)	MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
PER7=NEMA 7-Pin Twistlock Photocontrol Receptacle	MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
R=NEMA Twistlock Photocontrol Receptacle	MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
HA=50°C High Ambient [9]	MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [11,12,13,14]	MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [11,12,13,14]	MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [11,12,13,14]	MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [11,12,13,14,15]	MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [11,12,13,14,15]	MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [11,12,13,14,15]	MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [11,12,13,14]	MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [11,12,13,14]	MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [11,12,13,14]	FSIR-100=Wireless Configuration Tool for Occupancy Sensor [19]
DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [16]	GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [16]	GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
L90=Optics Rotated 90° Left	GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
R90=Optics Rotated 90° Right	GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
MT=Factory Installed Mesh Top	LS/HSS=Field Installed House Side Shield [18,20]
TH=Tool-less Door Hardware	
LCF=Light Square Trim Plate Painted to Match Housing [17]	
HSS=Factory Installed House Side Shield [18]	

Notes:
1. DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. Not to be used with un-grounded systems.
5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
6. Factory installed.
7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
8. Not available with LumaWatt wireless sensors.
9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
11. Consult factory for more information.
12. Utilizes internal step down transformer when 347V or 480V is selected.
13. The FSIR-100 accessory is required to adjust parameters.
14. Not available with HA option.
15. Replace X with number of Light Squares operating in low output mode.
16. LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
17. Not available with house side shield (HSS).
18. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
19. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
20. One required for each Light Square.

LUMARK®

DESCRIPTION

The patent pending Lumark Crosstour™ LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

		Type
Catalog #		WA
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 10W and 20W The large housing is available in the 30W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application Not recommended for car wash applications

Optical
Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaries are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical
LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 10W models operate in -40°C to 40°C [-40°F to 104°F]. 20W and 30W models operate in -30°C to 40°C [-22°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 70% of initial light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

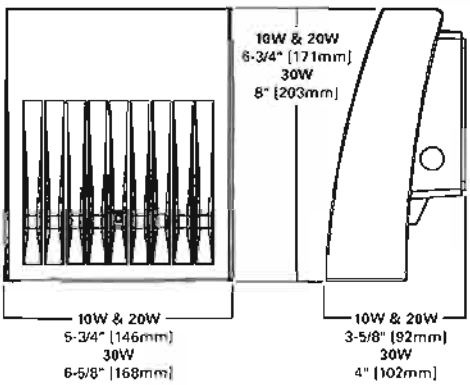
Finish
Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty
Five-year warranty.

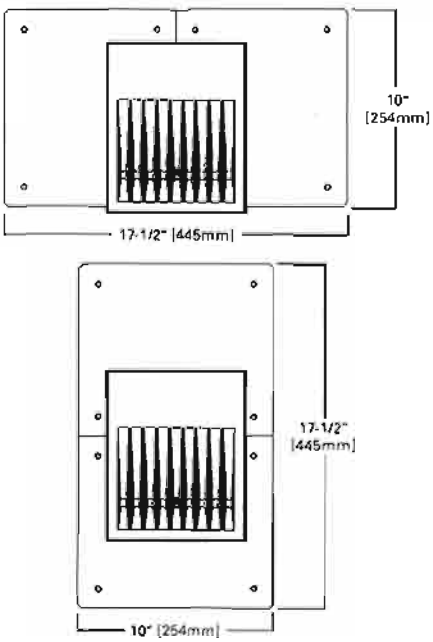
XTOR
CROSSTOUR LED

APPLICATIONS:
WALL / SURFACE
POST / BOLLARD
LOW LEVEL
FLOODLIGHT
INVERTED
SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Lighting Facts® Registered
DesignLights Consortium® Qualified*
Title 24 Compliant

TECHNICAL DATA
40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum

EPA
Effective Projected Area.
(Sq. Ft.)
XTOR1A/XTOR2A=0.34
XTOR3A = 0.45

SHIPPING DATA:
Approximate Net Weight:
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

*www.designlights.org

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
10W Model		
25°C	> 91%	> 350,000
40°C	> 91%	> 340,000
50°C	> 91%	> 330,000
20W Model		
25°C	> 91%	> 340,000
40°C	> 90%	> 320,000
50°C	> 90%	> 300,000
30W Model		
25°C	> 91%	> 340,000
40°C	> 91%	> 320,000
50°C	> 90%	> 300,000

LUMENS - CRI/CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	734	1432	1323	2649	2273
Delivered Lumens (With Flood Accessory Kit)	713	1424	1315	2614	2243
B.U.G. Rating*	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5000	5000	3500	5000	3500
CRI (Color Rendering Index)	67	65	68	65	68
Power Consumption (Watts)	8W	21W	21W	30W	30W

* B.U.G. Rating does not apply to floodlighting.

CURRENT DRAW

Voltage	Model Series		
	10W	20W	30W
120V	0.06A	0.21A	0.29A
208V	0.04A	0.13A	0.18A
240V	0.04A	0.12A	0.16A
277V	0.03A	0.10A	0.14A
347V	0.03A	0.08A	0.11A

ORDERING INFORMATION

Sample Number: XTOR2A-N-WT-PC1

Series [1]	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 10W XTOR2A=Small Door, 20W XTOR3A=Small Door, 30W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K [2]	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V [3] PC2=Photocontrol 208-277V [3,4] 347V=347V [5] HA=50°C High Ambient [5]	WG/XTOR=Wire Guard [6] XTORFLD-KNC=Knuckle Floodlight Kit [7] XTORFLD-TRN=Trunnion Floodlight Kit [7] XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White [7] XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White [7] EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

10W Series	20W Series	30W Series
XTOR1A=10W, 5000K, Carbon Bronze	XTOR2A=20W, 5000K, Carbon Bronze	XTOR3A=30W, 5000K, Carbon Bronze
XTOR1A-WT=10W, 5000K, Summit White	XTOR2A-N=20W, 3500K, Carbon Bronze	XTOR3A-N=30W, 3500K, Carbon Bronze
XTOR1A-PC1=10W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=20W, Summit White	XTOR3A-WT=30W, Summit White
	XTOR2A-PC1=20W, 120V PC, Carbon Bronze	XTOR3A-PC1=30W, 120V PC, Carbon Bronze

5 Days Quick-Ship

5-DAY QUICK SHIP ORDERING INFORMATION

10W Series	20W Series	30W Series
XTOR1A-WT-PC1=10W, 5000K, Summit White, 120V PC	XTOR2A-PC2=20W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=30W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=20W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=30W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=20W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=30W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=20W, 3500K, Summit White	XTOR3A-N-WT=30W, 3500K, Summit White
	XTOR2A-N-PC1=20W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=30W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=20W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=30W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=20W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=30W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=20W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=30W, 3500K, Summit White, 208-277V PC

LUMARK®

DESCRIPTION

The patent pending Lumark Crosstour™ MAXX LED Wall Pack Series of luminaries provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

		Type
Catalog #		WB
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 50W and 85W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical
Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens assembly designed for maximum forward throw. Solid state LED Crosstour luminaries are thermally optimized with two lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical
LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 50W and 85W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available. Crosstour MAXX luminaires maintain greater than 83% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation.

Emergency Egress
Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Area and Site Pole Mounting
Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

Finish
Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

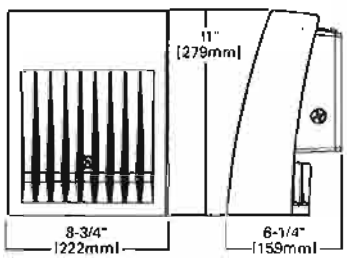
Warranty
Five-year warranty.

XTOR
CROSSTOUR MAXX LED

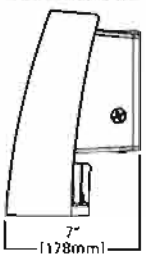
APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING

DIMENSIONS

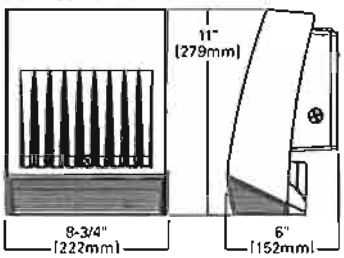
FULL CUTOFF



DEEP BACK BOX



REFRACTIVE LENS



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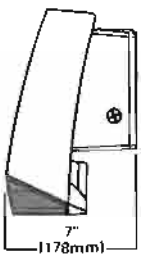
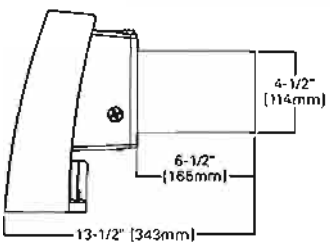
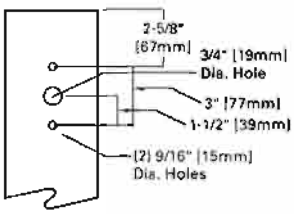


OPTIONAL POLE MOUNT ARM

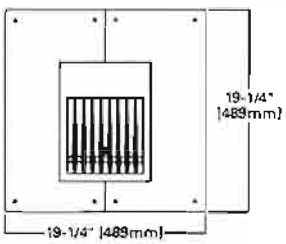


ARM DRILLING

TYPE "C"



ESCUTCHEON PLATES



CERTIFICATION DATA
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
RoHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated
Lighting Facts® Registered
DesignLights Consortium® Qualified*

TECHNICAL DATA
40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA
Effective Projected Area (Sq. Ft.):
XTOR5A/XTOR9A = 0.54
With Pole Mount Arm = 0.98

SHIPPING DATA
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

Cooper Lighting
by EATON

* www.designlights.org

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POWER AND LUMENS BY FIXTURE MODEL

50W LED Information	XTOR5A	XTOR5ARL	XTOR5A-N	XTOR5ARL-N
Delivered Lumens	4,282	4,553	3,532	3,830
B.U.G. Rating	B1-U0-G1	B1-U3-G2	B1-U0-G1	B1-U3-G2
CCT (Kelvin)	5000K	5000K	3500K	3500K
CRI (Color Rendering Index)	65	65	68	68
Power Consumption (Watts)	50W	50W	50W	50W

85W LED Information	XTOR9A	XTOR9ARL	XTOR9A-N	XTOR9ARL-N
Delivered Lumens	7,192	7,416	5,456	5,702
B.U.G. Rating	B1-U0-G1	B1-U3-G3	B1-U0-G1	B1-U3-G2
CCT (Kelvin)	5000K	5000K	3500K	3500K
CRI (Color Rendering Index)	65	65	68	68
Power Consumption (Watts)	86W	85W	84W	82W

EGRESS Information	50W and 85W Full Cutoff CBP Egress LED	50W and 85W Refractive Lens CBP Egress LED
Delivered Lumens	509	468
B.U.G. Rating	N.A.	N.A.
CCT (Kelvin)	4000K	4000K
CRI (Color Rendering Index)	65	65
Power Consumption (Watts)	1.6W	1.6W

CURRENT DRAW

Current (A)	Model Series			
	XTOR5A	XTOR9A	XTOR5A-CBP (Fixture/Battery)	XTOR9A-CBP (Fixture/Battery)
120V	0.43	0.72	0.68/0.25	0.97/0.25
208V	0.25	0.41	--	--
240V	0.22	0.36	--	--
277V	0.20	0.32	0.41/0.21	0.53/0.21
347V	0.16	0.26	--	--
480V	0.12	0.19	--	--

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance	Theoretical L70 (Hours)
50W Model	72,000 Hours	
25°C	98%	500,000
40°C	97%	490,000
50°C	97%	490,000
85W Model	72,000 Hours	
25°C	96%	221,000
40°C	94%	192,000
50°C	83%	140,000

ORDERING INFORMATION

Sample Number: XTOR5A-N-WT-PC1

Series[1]	LED Kelvin Color	Housing Color	Options (Add as Suffix)
Full Cutoff XTOR5A=50W XTOR9A=85W **Refractive Lens** XTOR5ARL=50W XTOR9ARL=85W	(Blank)=Bright White (Standard) 5000K N=Neutral Warm White, 3500K	(Blank)=Carbon Bronze (Standard) WT=Summit White	347V=347V[2,3,4,5] 480V=480V[2,3,4,5,6] PC1=Photocontrol 120V[7] PC2=Photocontrol 208-277V[7,8] DIM=0-10V Dimming Driver[9] PMA=Pole Mount Arm (C Drilling) with Round Adapter[3] HA=50°C High Ambient[8] MS-L20=Motion Sensor for ON/OFF Operation[2,3,9,12] MS/DIM-L20=Motion Sensor for Dimming Operation[2,3,9,10,11,12] CBP=Cold Weather Battery Pack[2,3,10,13]

Accessories (Order Separately)	
WG-XTORMX=Crosstour MAXX Wire Guard PB120V=Field Installed 120V Photocontrol PB277V BUTTON PC=Field Installed 208-277V Photocontrol[8] VA1040-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon[14] VA1041-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon[14] VA1042-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon[14] VA1043-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon[14] VA1044-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon[14] VA1045-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon[14]	VA1046-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon[14] VA1033-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon[14] VA1034-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon[14] VA1035-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon[14] VA1036-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon[14] VA1037-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon[14] VA1038-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon[14] VA1039-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon[14] EWP/XTORMX=Escutcheon Wall Plate, Carbon Bronze EWP/XTORMX-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 Not available with HA option. 3 Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20. 4 Not available with CBP option. 5 Thru-branch wiring not available with HA option or with 347V. 6 Not to be used with un-grounded systems. 7 Not available with MS-L20 and MS/DIM-L20 options. 8 Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead. 9 For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'. 10 120V or 277V only. 11 Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included. 12 Includes integral photo sensor. 13 Operating temperatures -20°C to 25°C. 14 Replace XX with CB for carbon bronze or WT for summit white.

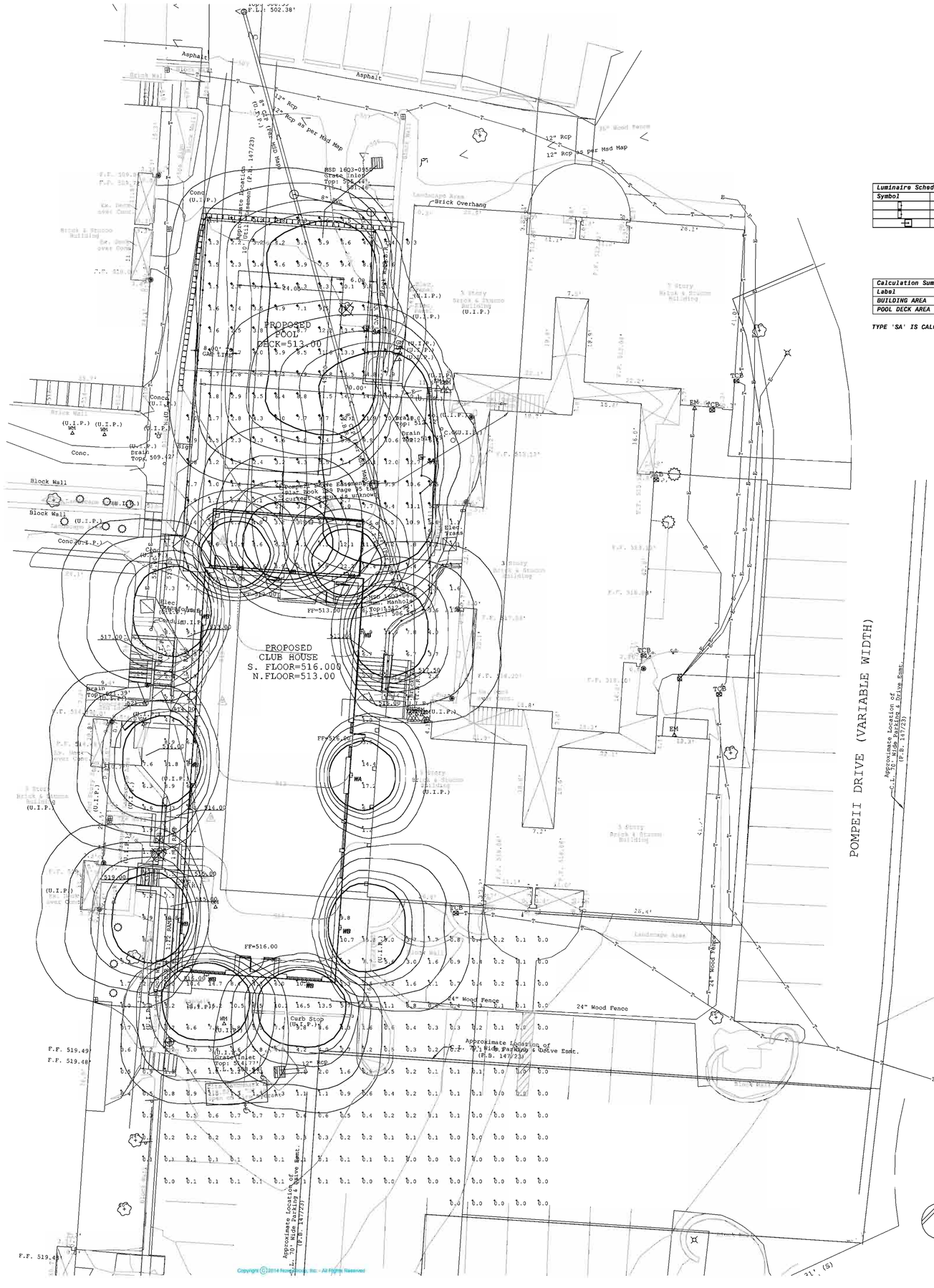
STOCK ORDERING INFORMATION

50W Series	85W Series
Full Cutoff	
XTOR5A=50W, 5000K, Carbon Bronze	XTOR9A=85W, 5000K, Carbon Bronze
XTOR5A-PC1=50W, 5000K, 120V PC, Carbon Bronze	XTOR9A-PC1=85W, 5000K, 120V PC, Carbon Bronze
XTOR5A-WT= 50W, 5000K, Summit White	XTOR9A-WT=85W, 5000K, Summit White
XTOR5A-N=50W, 3500K, Carbon Bronze	XTOR9A-PC2=85W, 5000K, 208-277V PC, Carbon Bronze
	XTOR9A-480V=85W, 5000K, 480V, Carbon Bronze
	XTOR9A-PMA=85W, 5000K, Pole Mount Arm, Carbon Bronze
Refractive Lens	
XTOR5ARL=50W, 5000K, Refractive Lens, Carbon Bronze	XTOR9ARL=85W, 5000K, Refractive Lens, Carbon Bronze
XTOR5ARL-PC1=50W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR9ARL-PC1=85W, 5000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR5ARL-WT=50W, 5000K, Refractive Lens, Summit White	XTOR9ARL-WT=85W, 5000K, Refractive Lens, Summit White
XTOR5ARL-N=50W, 3500K, Refractive Lens, Carbon Bronze	XTOR9ARL-PC2=85W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze
	XTOR9ARL-480V=85W, 5000K, Refractive Lens, 480V, Carbon Bronze
	XTOR9ARL-PMA=85W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze

5 Days Quick-Ship

5-DAY QUICK SHIP ORDERING INFORMATION

50W Series	85W Series
Full Cutoff	
XTOR5A-CBP=50W, 5000K, Carbon Bronze, Cold Weather Battery Pack	XTOR9A-CBP=85W, 5000K, Carbon Bronze, Cold Weather Battery Pack
XTOR5A-480V=50W, 5000K, Carbon Bronze, 480V	XTOR9A-N=85W, 3500K, Carbon Bronze
XTOR5A-PC2=50W, 5000K, Carbon Bronze, 208-277V PC	
Refractive Lens	
XTOR5ARL-PC2=50W, Refractive Lens, 5000K, Carbon Bronze, 208-277V PC	XTOR9ARL-CBP=85W, Refractive Lens, 5000K, Carbon Bronze, Cold Weather Battery Pack
XTOR5ARL-CBP=50W, Refractive Lens, 5000K, Carbon Bronze, Cold Weather Battery Pack	XTOR9ARL-N=85W, Refractive Lens, 3500K, Carbon Bronze
XTOR5ARL-480V=50W, Refractive Lens, 5000K, Carbon Bronze, 480V	



Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	3	WA	SINGLE	N.A.	0.950	XTORSA
	8	WB	SINGLE	N.A.	0.950	XTORSA
	2	SA	SINGLE	N.A.	0.900	GLEON-AE-03-LED-E1-SL4

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
BUILDING AREA	Illuminance	Fc	3.25	22.4	0.0	N.A.	N.A.
POOL DECK AREA	Illuminance	Fc	5.94	16.0	0.3	19.80	53.33

TYPE 'SA' IS CALCULATED AT A 12 FOOT MOUNTING HEIGHT

PHOTOMETRIC PLAN
SCALE: 1" = 10'-0"

GERSHMAN COMMERCIAL REAL ESTATE
FORUM APARTMENTS
CLUBHOUSE
1173 POMPEII DRIVE
CHESTERFIELD, MO 63017

NOVA GROUP, INC.
ARCHITECTS AND ENGINEERS
6312 HAZELWEST COURT SUITE 102
HAZELWOOD, MISSOURI 63042 (314) 731-5353

project no. 2140328
drawn by JDS
date 1/5/15
revision

PHOTOMETRIC PLAN

A-1
sheet___ of __1__

NOVA ADMIN 2/2/2015 2:33 PM N:\2014\140328 FORUM APTS - CLUBHOUSE\DRAWINGS\PHOTOMETRICS\UPDATED SITE PHOTOMETRICS 010515