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## **Architectural Review Board Staff Report**

Project Type: Site Development Section Plan, Lot 1

Meeting Date: April 13, 2017

From: Cecilia Hernandez Project Planner

- Location: 18600 Olive Street Road, Lot 1
- Applicant: MW Weber Architects
- **Description:** <u>18600 Olive Street Rd (Canaan Crossing, Lot 1)</u>: A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.06 acre tract of land zoned "Pl" Planned Industrial District located south of Olive Street Road west of its intersection with Spirit Airpark West Drive.

### PROPOSAL SUMMARY

The request is for a Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a new 45,346 square foot service building. The proposed building is to be constructed of brick, EIFS, cast stone, and aluminum. The subject site is zoned "Pl" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2903.

### **HISTORY OF SUBJECT SITE**

At 1.06 acres in size, the subject site is roughly one-fifth of a 5.0 acre parcel and was originally zoned "M3" Planned Industrial District by St. Louis County prior to the incorporation of the City of Chesterfield. The site is currently vacant and was rezoned to "PI" Planned Industrial District via ordinance 2903 in July of 2016. Since that time, a Site Development Concept Plan has been approved and the Record Plat is currently under consideration.



Figure 1: Site Photo

### STAFF ANALYSIS

### General Requirements for Site Design:

### A. Site Relationships

The proposed structure is to be set back behind two rows of accessory parking, with additional parking along the rear of the building. The placement of the structure behind the parking is consistent with the Site Development Concept Plan which provides a cross access easement along the front parking, connecting all 5 lots of the development and ensuring a maximum of 2 curb cuts for this development (both off of Spirit Airpark West Drive). For reference, see the site development concept plan in Figure 2 below.

### **B. Circulation System and Access**

Proposed access to the site would be from 1 of 2 curb cuts off of Spirit Airpark West Drive. As mentioned in the above Site Relationship section, parking is proposed in the front of the subject property to create a corridor providing access to all 5 lots within the development.

The Unified Development Code specifically notes a number of specific requirements for the Chesterfield Valley to be applied to commercial and industrial development. These requirements include utilizing architectural elements from the front façade on the side and rear of the structure and screening trash enclosures which should be constructed with materials consistent to the building. The applicant provides a 360-degree architecture, integrating consistent materials on all four sides of the building and the trash enclosure alike.

Additionally, the applicant will be required to provide a sidewalk along the eastern portion of the site as shown on the Site Development Concept Plan in Figure 2 below and will be required to provide internal pedestrian circulation to the building. While this is not shown on the plans presented today, this has been addressed in a comment on the plans to be addressed prior to review by the Planning Commission.

### C. Topography & Retaining Walls

The subject site is relatively flat and the applicant does not propose significant grade alterations or retaining walls.



Figure 2: Site Development Concept Plan

### **General Requirements for Building Design:**

### A. Scale, Design, Materials and Color

The proposed one-story structure is consistent in height and scale with other stand-alone industrial structures in the area. Main access to the structure is provided on the eastern elevation near the proposed parking. The applicant is proposing 2 entry points which are pushed forward to break down the scale of the building. Additionally, the eastern (front) elevation is further broken down by details such as glazing bars, columns, and canopies, all of various materials. Additional design themes on the frontages have been carried onto the side elevations as desired for structures within the Chesterfield Valley. Mechanical equipment is planned to be located on the northwestern and southwestern elevations and will be screened by brick walls and cast stone tops which are consistent with the building design.

Materials planned for this proposal include brick, EIFS, cast stone, and aluminum. Multiple colors are proposed which are associated with the design of the building as documented on the rendering and elevations as well as detailed in the Architect's Statement of Design. Material samples will be made available for the Board's consideration at the meeting.

### **B. Landscape Design and Screening**

Landscaping is planned in association with the proposed development as required by the City of Chesterfield. The landscape design provides a variety of deciduous and evergreen trees along Spirit Airpark West Drive and near parking areas. Additionally, low-maintenance and pollinator species have been integrated to ensure a variety of seasonal color and texture is present throughout the site.

A trash enclosure and mechanical screening is planned with this proposed construction. The enclosure and screening, per the Statement of Design, will match the material and color of the proposed main structure. This is a design element which is identified for development within the Chesterfield Valley.

### C. Signage

Signage will be approved by a separate City process.

### D. Lighting

Lighting is planned in association with this improvement. The proposed lighting plan consists of three (3) light standards within the front parking field and ten (10) wall mounted lighting fixtures. No accent lighting is proposed for this building.

### DEPARTMENTAL INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Be advised that this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

### 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, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for 18600 Olive Street Road, Lot 1, 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, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for 18600 Olive Street Road, Lot 1, to the Planning Commission with the following recommendations..."

### Attachments

1. Architectural Review Packet Submittal



### ARCHITECTURAL REVIEW BOARD Project Statistics and Checklist

Date of First Comment Letter R	eceived from the City of Chesterfie	ld
Project Title: Spirit Service Center	Location:	Olive Street Road
Developer:	_Architect:	_Engineer:
PROJECT STATISTICS:		
Size of site (in acres): 1.06 acres	_ Total Square Footage: 10,048 sf	_ Building Height: 31' (to roof ridge)
Proposed Usage: Service building		
Exterior Building Materials:	EIFS, cast stone, aluminum fascia soffit a	& storefront system
Roof Material & Design: Architectu	ral shingles	
Screening Material & Design: HV	AC units: 6' h. Brick wall with cast stone	cap. Trash: 6' h. brick w/ aluminum cap
Description of art or architectura	Ilv significant features (if anv):	se refer to the Architectural Design
Statement.	,	

### ADDITIONAL PROJECT INFORMATION:

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

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

690 Chesterfield Parkway West, Chesterfield, MO 63017-0760 Ph. (636)537-4746 Fax (636)537-4798 www.chesterfield.mo.us



March 3, 2017

Architectural Review Board City of Chesterfield Department of Planning 690 Chesterfield Parkway West Chesterfield, MO 63017-0760

### Re: Architect's Statement Spirit Service Center

Dear members of the Architectural Review Board, The following is the Architect's Statement for the Spirit Service Center, located at 18500 Olive Street Road.

### The Site:

### Physical features and Access:

The 1.06 acre project site will contain a one story, 10,000 square foot service building. The site is adjacent to a 1.02 acre undeveloped site (located to the north of the project). Both sites will share a single entry drive off of Spirit Airpark West Drive. The site has a very gentle slope from north to south and will contain a detention pond on the south side of the property. The adjacent properties are all undeveloped with very few trees or shrubs.

### Site Relationship & Circulation:

The site which is accessed off of Spirit Airpark West Drive, contains parking in the front and the rear of the building but will be screened from the street, adjacent neighbors, and the building with layers of landscape buffers. Mechanical equipment will be located on the 2 side elevations of the building but will be screened with a 6' high brick wall with cast stone cap that naturally extrudes from the brick/cast stone walls of the building. The trash dumpster will also be screened with a similarly designed brick wall with stained wood swinging gates, which tucks in quietly at the rear of the property. The type and location of site and building lighting fixtures were designed to reduce excess glare into the neighboring properties. Many of the fixtures are indirect fixtures and will be located within the entry alcoves or back from the main face of the building, which allows the mass of the building to shield the glare from the side neighboring properties.

### Topography & Retaining walls:

The natural topography is relatively level and will not require any retaining walls. The storm water management systems includes a bio-retention basin to handle water quality, and will be approved by the City and MSD.

### The Building:

### Materials:

The materials on the building include one color of brick, accent bands of light colored cast stone trim, one light color of EIFS, darker architectural shingles, clear aluminum storefront window and door frames with bluish gray tinted glazing. Light colored aluminum gutters, downspouts and entry canopies will complement the light colored EIFS and cast stone.

129 Long Road

Chesterfield, Missouri 63005

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636 .519 .1400

636 .519 .1414 fax

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### Scale & Design:

The one story building is appropriately scaled to the few buildings that are near the area. In order to break down the scale of the building, taller masonry entry masses were created at the 2 front corners. The building is further broken down to a human scale with simple lower horizontal entry canopies that are integrated with the recessed entries or brick and cast stone pilaster entries. Lastly, a light colored cast stone trim was used as a linear thread that weaves throughout the building and acts as a unifying element that further breaks down the masses, forms an edge between the masonry (foreground mass) and EIFS (background mass), and ties all of the building elements together.

### Landscape design and screening:

The required number of trees has been provided and, along the street frontage, have been located to provide shade at strategic points while also allowing "view corridors" into the site. Landscaping is also added to the buildings to buffer the spaces between this and the adjacent building.

The plant palette, designed for low maintenance, has been selected from Chesterfield's list of approved trees. The chosen plants also provide pollinators (especially at the bio-retention pond) and seasonal color & texture throughout the site.

### Signage:

The signage shall be secondary to the architectural design, in order to not distract from the building architecture. Signage shall be designated in the area directly above the entry canopies. Address signage shall consist of individual aluminum numbers mounted directly to the top edge of the entry canopies.

### Lighting standards:

The parking areas will be illuminated by full cutoff, low profile, LED roadway fixtures and equipped with house side shields where located at property lines to minimize glare and light trespass. Total fixture height is 18'-0" above finished grade. Building entries will incorporate a combination of full cutoff, low profile, LED surface mounted accent fixtures and recessed LED can lighting. Service bays will incorporate full cutoff, low profile, LED surface mounted accent fixtures. Foot candles at parking and drive areas are 0.5 minimum and 3.4 average. Maximum foot candles at the property lines are at 0.4 or below with most areas at 0.0. Average foot candles at all building entries are above 5.0.

Sincerely, mw Weber Architee

Michael J. Reardon Project Manager





06 MARCH 2017 16.095



Scale: 1" = 30'-0"





VIEW LOOKING EAST (ACROSS SPIRIT AIRPARK WEST DRIVE)



VIEW LOOKING WEST



VIEW LOOKING NORTH (TOWARDS OLIVE STREET RD.)



VIEW LOOKING SOUTH (TOWARDS SPIRIT AIRPORT)

## ADJACENT SITE PHOTOS

## SPIRIT SERVICE CENTER Chesterfield, Missouri

ΜW meper architects

636.519.1400







# SPIRIT SERVICE CENTER Chesterfield, Missouri



06 MARCH 2017 16,095







SOUTH ELEVATION





WEST ELEVATION

## EXTERIOR ELEVATIONS

|" = 20'-0"



## **PLAN & ELEVATIONS- TRASH ENCLOSURE**

Scale: 1/16" = 1'-0"

## SPIRIT SERVICE CENTER Chesterfield, Missouri



## LANDSCAPE GUIDELINE SPECS:

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### GENERAL:

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- All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.
   The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of work to be done.
- approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (Call I-800-DIG-RITE in Missori).
- 4.) Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to  $6^{\circ}$  depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.
- shrubs planted within the area.
  5.) It shall be the landscape contractor's responsibility to:

  A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.
  B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
  C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (IO) days prior to installation.
- ten (10) aays prior to installation.
  6) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.
  7.) Provide single-stem trees unless otherwise noted in plant schedule.
  6.) All plant material shall complex with the accepted vertice.
- 8.) All plant material shall comply with the recommendations and requirements of ANSI Z60.1 "American Standards for Nursery Stock". 9.) It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, during or after Installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
- 10.) All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months. 11.) Should auger equipment be utilized in excavating any plant pits, vertical
- sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation. 12.) All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the
- landscape contractor to commence landscape installation. 13.) Keep all plant material (except turf) a minimum of 36" clear of fire hydrants. 14.) Landscape contractor shall kill & remove all existing weeds within the project site.
- 15.) All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation. 16.) Landscape contractor shall be in compliance with all federal, state and local
- laws / regulations relating to insect infestation and/or plant diseases. 17.) Transplanted material will not be guaranteed by the landscape contractor. PRUNING:
- I) Lightly prune trees at time of planting. Prune only the crossover limbs, intermingled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown. 2.) All pruning shall comply with ANSI A300 standards.
- INSURANCE:

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

- All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.
   No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Mirafi fabric shall be used beneath all gravel mulch beds.
   Edge all beds with spade-cut edge unless otherwise noted.

### MAINTENANCE:

- I.) Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period
- of 12 months after acceptance. 2.) Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.

### SIGHT TRIANGLES:

- I.) No landscape material or other obstructions shall be placed or be maintained within the sight distance area so as not to impede the vision between a height of thirty inches (30") and ten feet (10") above the adjacent street or paving surfaces.
- 2.) Sight triangles at the intersection of a public street and a private access way (except for single family residences) shall also be formed by measuring from the point of intersection of the street frontage curbs and the entrance curb lines a distance of 35' and connecting the points so established to form the sight triangle area.
- 3.) All shrubs/perennials within sight triangle zones to be maintained at a max-imum height of 24"; All trees to be maintained at a clear height from grade of ten (10) feet.

	LAT/	COMMON NAME / BOTANICAL NAME	SIZE
		Bald cypress Taxoaium distichum	2.5"Cal
НАСК	1	Common Hackberry / Celtis occidentalis	2.5"Cal
GL	2	Greenspire Littleleaf Linden / Tilia cordata 'Greenspire'	2.5"Cal.
SMO	2	Swamp White Oak / Quercus bicolor	2.5"Cal.
SHL	1	'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal.
		<b>F</b>	-
EVERGREEN TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
GGA		Green Giant Arborvitae / Thuja plicata 'Green Giant'	6'-7'
REDP	з	Red Pine / Pinus resinosa	6'-7'
FLOWERING TREES	ATY	COMMON NAME / BOTANICAL NAME	SIZE
JTL	1	Ivory Silk Japanese Tree Lilac / Syringa reticulata 'Ivory Silk'	2.5"Cal.
RB	1	Redbud / Cercis canadensis	2.5"Cal.
JWSM	1	Sweetbay Magnolia / Magnolia virginiana 'Jim Wilson'	2.5"Cal
тсн	1	Thornless Cockspur Hawthorn / Crataegus crusgalli var. inermis	2.5"Cal.
SHRUBS	ATY	COMMON NAME / BOTANICAL NAME	SIZE
CH	14	China Boy/Girl Holly / Ilex meserveae 'China Boy/Girl' TM	5 gal
G√B	16	Green Velvet Boxwood / Buxus 'Green Velvet'	5 gal
LH	2	Limelight Hydrangea / Hydrangea paniculata 'Limelight' TM	5 Gal.
BAY	2	Northern Bayberry / Myrica pensylvanica	24"-30"
			617E
RANDALS/FERENNIALS	a	Rusple Constlower / Echinacea purpused 'Magnus'	
	-	rupie consticker / contraced purpured Magnus	
FORBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE
0BS	44	Ozark Blue Star / Amsonia Illustris	Gal @ 30" OC
PFRM	26	Party Favor Rose Mallow / Hibiscus lasiocarpos	Gal @ 30" 00
SMM	98	Swamp Milkweed / Asclepias incarnata	2 Qt. @ 24" 00
			GI7E
	1330	Brown Fox Sedge / Carex vulpipoldeg	Blue at 18" OC
	BI	Great Green Bulrush / Scirpus atrovirens	Plug at 18" OC
	212	Morning Star Sødge / Carex grayi	Plug at 18" OC

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IUPSUL.	Il proposed landscape	plantinas shall be five (5)			
parts well-draine	a screened organic top	psoil to one (I) part			
topsoil mix to a (	depth of 6" minimum and	I grade smooth.			
soil-testing agen	cy outlining the % of orc	ganic matter, inorganic			
3.) Any foreign tops	oil used shall be free of	f roots, stumps, weeds,			
brush, stones (lar toxic material. Lo	ger than 1"), litter or an andscape contractor sh	y other extraneous or all be fully responsible			
for correcting al Killing and remov	l negative soil issues pr /al of all weeds shall be	rior to plant installation. • the responsibility of the		<b>(</b>	
landscape contro	actor as part of this tas	sk. Argent herbicide to all		0)	
planting beds up	on completion of plantin	g operations and			12 12 12 12 12 12 12 12 12 12 12 12 12 1
5.) Install siltation co	ontrols prior to common	coment of any grading			2010
operations. Inspe basis until vegeta	ation is established.	tion fences on a weekly			કે કે જે જે
TREE MISCELLANEC	OUS MATERIALS:				ëë.
I) Provide stakes of	and deadmen of sound, r	new hardwood, free			¶ax Xar
2.) Tree wrap tape	shall be 4" minimum, des	igned to prevent borer			
shall be used.	er freezing. Additionally	, only s-ply wing material			4
TURF:					6 6 0 0
l.) All disturbed lam Turf-Tupe fescue	n areas to be seeded r (300# per acre) and b	nith a mixture of Nuearass (18# per			2 2 2 2
acre). Lawn area period of 90 dau	is shall be unconditionall us from date of final ac	ly marranted for a ceptance. Bare			ee A ee A oe
areas more than be replaced.	'one square foot per ar	ny 50 square feet shall		n Su	<u>ح</u> ک 88
<ol> <li>The turf contract grade; restore a</li> </ol>	or shall be responsible and repair any erosion o	for protection of finished or water damage and obtain			hart
õwners' approva 3) Landscape contr	l prior to seèding or so actor shall offer an alt	od installation. ernate price for sod			55
in lieu of seed. S No broken pleces	od shall be cut at a unif s, irregular pieces or to	form thickness of 3/4". orn pieces will be accepted.			
4) Any points carryi 15% or greater s	ng concentrated water hall be sodded.	loa'ds and all slopes of	S		
5) All sod shall be 6) Recondition exist	placed a maximum of 24 ting lawn areas damage	f hours after harvesting. d bu Contractor's operations			-
including equipme	int/material storage and	i movement of vehicles.			04
paved area elev	ations to allow for prop	per drainage.			ğ
EROSION CONTROL	BLANKET (Where applic	cable):		F.	- <del>*</del>
<ol> <li>All seeded areas consist of loose</li> </ol>	s shall receive an erosi straw mat and anchor p	ion control blanket which shall ins as manufactured by: North			Ť
American Green, recommendations	DS 75 or approved eq.	val. Install per manufačturer's			5
PLUG PLANTING NO	TES:		ALL ALL		¥ سٍ_
I.) All plugs to be 4	-1/2" deep X 2" diamete	er minimum.	Jan S		SAP SAP
such that the hole	s is of a minimum diamet	er and depth to accommodate the	· 꽃릇/ :		Υ Υ Υ Υ
plug and its root: 3.) Pluas shall be so	e, without damage. aced in a trianaulated l	ayout approximately 24" on center.			<b>5</b> ≺Ś
Plugs shall be plo 4) Obtain plugs from	anted through erosion co	ontrol blanket where appropriate.			Ţ₹
5.) Water plugs upon	completion of planting	so that soil is moist but not saturate	od. Era C	r 78	Ðÿ

6.) If planting is delayed more than six hours after delivery, store plugs in the shade, protect from weather and mechanical damage and keep them moist and cool. All plugs shall be planted within 24 hours after delivery. WARRANTY:

- I.) All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.
- 2.) Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant. 3.) Only one replacement per tree or shrub shall be required at the end
- of the warranty period, unless loss is due to failure to comply with warranty. 4.) Lawn establishment period will be in effect once the lawn has been
- moved three times. Plant establishment period shall commence on the date of acceptance and 100% completion. 5.) A written guarantee shall be provided to the owner per conditions outlined in #l abovē.

MISCELLANEOUS:

- I.) All landscape areas & islands shall be be provided with a mechanical underground irrigation system (by others). Coordinate landscaping with irrigation contractor.
- 2.) Adjust tree locations for light standards and underground utilities. 3.) No trees or other obstructions shall be located within 6'-O" of fire hydrants.



|"=20'-0"

JOB No.

2016-190

SHEET

THO SHEETS

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Luminaire Sc	hedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□-@	S1	3	EATON - McGRAW- EDISON (FORMER COOPER LIGHTING)	GLEON-AF-03-LED-E1-SL4- HSS	GALLEON AREA AND ROADWAY LUMINAIRE (3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		48	GLEON-AF-03-LED- E1-SL4-HSS.ies	306.9438	0.95	166
⊡-@	S2	0	EATON - McGRAW- EDISON (FORMER COOPER LIGHTING)	GLEON-AF-02-LED-E1-5WQ	GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		32	GLEON-AF-02-LED- E1-5WQ.ies	400.9783	0.95	113
D	W1	4	EATON - LUMARK (FORMER COOPER LIGHTING)	XTOR8B	CROSSTOUR 81W WALL MOUNT LED	EATON LED 5000K	1	XTOR8B.ies	8499.597	0.95	81
D	W2	5	EATON - LUMARK (FORMER COOPER LIGHTING)	XTOR1B	CROSSTOUR 12W WALL MOUNT LED	EATON LED 5000K	1	XTOR1B.ies	1417.286	0.95	12.2
D	W3	1	EATON - LUMARK (FORMER COOPER LIGHTING)	XTOR1A	LUMARK CROSSTOUR 1A - 5000K CCT		1	XTOR1A.ies	721.4001	0.95	7

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Entry 1	+	8.6 fc	12.8 fc	4.8 fc	2.7:1	1.8:1	0.7:1
Entry 2	+	6.6 fc	8.6 fc	1.4 fc	6.1:1	4.7:1	0.8:1
Entry 3	+	6.7 fc	8.8 fc	1.3 fc	6.8:1	5.2:1	0.8:1
Entry 4	+	8.4 fc	12.7 fc	4.6 fc	2.8:1	1.8:1	0.7:1
Entry 5	+	9.5 fc	12.0 fc	7.7 fc	1.6:1	1.2:1	0.8:1
Entry 6	+	5.5 fc	7.2 fc	4.1 fc	1.8:1	1.3:1	0.8:1
Entry 7	+	5.7 fc	7.4 fc	4.3 fc	1.7:1	1.3:1	0.8:1
Entry 8	+	5.7 fc	7.4 fc	4.3 fc	1.7:1	1.3:1	0.8:1
Inside Property Line	+	0.5 fc	6.7 fc	0.0 fc	N/A	N/A	0.1:1
Parking & Roadway	+	2.9 fc	15.8 fc	0.0 fc	N/A	N/A	0.2:1

17W240075 ST LOUIS COUNTY MISSOURI 18600 EDISON AVE BOOK: 07219 PAGE: 1780

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e Professional Engineer's seal and signature apply only the document to which they are affixed. The Engineer pressly disclaims any responsibility for all other plans, cifications, estimates, reports or other documents or ruments relating to or intended to be used for any part the engineering project. 2017 G&W Engineering Corp.	
<b>VIN S. GRIESEMER</b> , Missouri License # PE-23628 The ecember 31, 2017. This electronic drawing file may be used to the Missouri Board for Architects, Professional expertences of the Missouri Board for Architects, Professional expertences of the second and the user of this electronic drawing file agrees to assume all spectra inconsistent with the requirements of the Rules and of the instant is inconsistent with the requirements of the Rules and instant is inconsistent with the requirements of the Rules and instant is inconsistent with the requirements of the Rules and instant is inconsistent.	ENGINEER ING CORPORATION ENGINEER ING CORPORATION DYNAMIC PROCESSES & SUSTAINABLE RESULTS 138 WELDON PARKWAY ST. LOUIS, MO 63043 (314) 469-3737 PROJECT NUMBER: 2017-0018.00 WWW.GANDWENGINEER ING.COM MISSOURI STATE CERTIFICATE OF AUTHORITY # 2002018767
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	SEAL OF MISSOF RESERVINS PE-23628 02-09-2017
	REVISIONS
	JOB NO:2017-0018.00DRAWN BY:AWL
	CHECKED BY: KSG
	DATE: 01-13-2017

SHEET NO. E1.0 SITE PLAN PHOTOMETRIC

W1

### DESCRIPTION

SPECIFICATION FEATURES

Low-profile LED design with

aluminum back box and hinged

and refractive lens design. Full

are available in 58W and 81W.

feature allows for safe and easy

cutoff and refractive lens models

Patent pending secure lock hinge

the supplied push-in connectors.

Back box includes four 1/2" NPT

back box is secured by four lag

gasket seals door and back box.

Not recommended for car wash

engineered reflector providing

Full cutoff models integrate an

meeting requirements for Dark

Sky compliance. Refractive lens

assembly designed for maximum

forward throw. Solid state LED

Crosstour MAXX luminaries are

Silicone sealed optical LED chamber incorporates a custom

high-efficiency illumination.

prism optical lens assembly

applications.

DIMENSIONS FULL CUTOFF

8-3/4"

F:T•N

DESCRIPTION

6-1/4"

The patented 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,

Optical

Patented secure lock hinge feature lumen packages; 5000K and 4000K

single gang and masonry junction the LED source. 7W, 18W, 26W

7W, 18W, 26W 38W 8" [203mm

– 7W, 18W, 26W -

3-5/8" [92mm] 38W 4" [102mm]

Silicone sealed optical LED chamber incorporates a custom

engineered mirrored anodized

illumination. Optical assembly

tempered glass and meets IESNA

includes impact-resistant

requirements for full cutoff

compliance. Available in seven

LED driver is mounted to the

system incorporates both

sinking. LED thermal management

to transfer heat rapidly away from

and 38W series operate in -40°C to

40°C [-40°F to 104°F]. High ambient

50°C models available. Crosstour

luminaires maintain greater than

89% of initial light output after

72,000 hours of operation. Three

half-inch NPT threaded conduit

entry points allow for thru-branch

conduction and natural convection Five-year warranty.

ESCUTCHEON PLATES

- 17-1/2" [445mm] ------

10° [254mm] ------

threaded conduit entry points. The die-cast housing for optimal heat installed life.

schools, stairways and loading docks test.

SPECIFICATION FEATURES

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 medium design. The small

housing is available in 7W, 18W

and 26W. The medium housing

is available in the 38W model.

electrical connections with the

box includes three half-inch, NPT

universal back box supports both

the small and medium forms and

mounts to standard 3-1/2" to 4"

round and octagonal, 4" square,

boxes. Key hole gasket allows

for adaptation to junction box or

wall. External fin design extracts

heat from the fixture surface. One-

and back box. Minimum 5" wide

pole for site lighting application. Not recommended for car wash

applications.

DIMENSIONS

5-3/4" [146mm] 38W 6-5/8" [168mm]

— 7W, 18W, 26W ——

piece silicone gasket seals door

allows for safe and easy tool-less CCT.

supplied push-in connectors. Back Electrical

Construction

Optical

removable door. Matching housing

rugged one-piece, die-cast

Construction

The patented 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.

### thermally optimized with eight lumen packages in cool 5000K or neutral 4000K (58W, 81W models) LED color temperature (CCT).

styles incorporate both a full cutoff Electrical LED driver is mounted to the die-cast aluminum housing for both conduction and natural tool-less electrical connections with convection to transfer heat rapidly for supplied twin support rods, away from the LED source. 58W threaded conduit entry points. The to 40°C [-40°F to 104°F]. High

ambient 50°C [122°F] models bolts (supplied by others). External available in 58W and 81W models 2-3/8" or 3-1/2" O.D. Tenon. fin design extracts heat from the only. Crosstour MAXX luminaires fixture surface. One-piece silicone maintain greater than 89% of initial Finish light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points box is an authorized electrical protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for Warranty

impact-resistant molded refractive use with 480V Wye systems only. Five-year warranty. **Emergency Egress** Optional integral cold weather models incorporate a molded lens battery emergency egress includes

emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and

DEEP BACK BOX

REFRACTIVE LENS

8-3/4"

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,

talog #

Emergency Lighting. optimal heat sinking. LED thermal Area and Site Pole Mounting management system incorporates Optional extruded aluminum 6-1/2" arm features internal bolt guides allowing for easy positioning of the and 81W models operate in -40°C fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder allow for thru-branch wiring. Back coat paint. Super TGIC powder coat paint finishes withstand extreme wiring compartment. Integral LED climate conditions while providing electronic driver incorporates surge optimal color and gloss retention of the installed life.

DEEP BACK BOX



XTOR

INVERTED SITE LIGHTING

APPLICATIONS: WALL / SURFACE CERTIFICATION DATA /cUL Wet Location Listed

LM79 / LM80 Compliant OHS Compliant OM Compliant Models Vibration Tested L924 Listed (CBP Models) 66 Rated TECHNICAL DATA °C Ambient Temperature xternal Supply Wiring 90°C Minimum

Effective Projected Area (Sq. Ft.): XTOR6B, XTOR8B=0.54 With Pole Mount Arm=0.98 SHIPPING DATA: Approximate Net Weight: 2-15 lbs. [5.4-6.8 kgs.]

	Luma
Catalog #	Туре
Project	W2 & W3
Comments	Date
Prepared by	

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

incorporates surge protection. 120-

reflector providing high-efficiency 277V 50/60Hz or 347V 60Hz models.

Warranty

Effective Projected Area (Sq. Ft.): XTOR1A, XTOR2B, XTOR3B=0.34 XTOR48=0.45

F-T-N

•

CERTIFICATION DATA JL/cUL Wet Location Listed LM79 / LM80 Compliant ROHS Compliant ADA Compliant OM Compliant Models IP66 Ingressed Protection Rated Title 24 Compliant TECHNICAL DATA 0°C Maximum Ambient Temperatur xternal Supply Wiring 90°C Minimum

SHIPPING DATA:



Approximate Net Weight: 7-5.25 lbs. [1.7-2.4 kgs.]

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## Lumark







Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L7 (Hours)	
XTOR68 Mod	el		
25°C	> 90%	246,000	
40°C	> 88%	217,000	
50°C	> 88%	201,000	
XTOR8B Mod	el		
25°C	> 89%	219,000	
40°C	> 87%	195,000	
50°C	> 86%	181,000	

### POWER AND LUMENS BY FIXTURE MODEL

		58W Series	14 m.	here.
LED Information	XTOR6B	XTOR6BRL	XTOR6B-W	XTOR6BRL-W
Delivered Lumens	6,129	6,225	6,038	6,133
B.U.G. Rating	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K
CRI (Color Rendering Index)	70	70	70	70
Power Consumption (Watts)	58W	58W	58W	58W
		81W Series		
LED Information	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W
Delivered Lumens	8,502 B2-U0-G1 5000K	8,635 B2-U4-G3	8,373 B2-U0-G1 4000K 70	8,504 B2-U4-G3 4000K 70
B.U.G. Rating				
CCT (Kelvin)		5000K		
CRI (Color Rendering Index)	70	70		
Power Consumption (Watts)	81W	81W	Wra	81W
EGRESS Information	and XTOR8B BP Egress LED	XTOR6B, a Refractive Lens	and XTOR8B s CBP Egress LED	
Delivered Lumens	5	09	468	
B.U.G. Rating	N	.A.	N.A.	
CCT (Kelvin)	4000K		40	00K
CRI (Color Rendering Index)		65		65
Power Consumption (Watts)	1.	8W	1.	8W

**XTOR** CROSSTOUR MAXX LED

58W Series	
Full Cutoff	
XTOR6B=58W, 5000K, Carbon Bron	re
XTOR6B-PC1=58W, 5000K, 120V PC,	Carbon Bronze
XTOR6B-WT= 58W, 5000K, Summit	White
XTOR6B-W=58W, 4000K, Carbon Br	onze
XTOR6B-PMA= 58W, 5000K, Pole M Bronze	ount Arm, Carbon
XTOR6B-W-PMA=58W, 4000K, Pole Bronze	Mount Arm, Carbon
XTOR6B-PC2= 58W, 5000K, 208-277	V PC, Carbon Bronze
XTOR6B-W-PC2=58W, 4000K, 208-2 Bronze	77V PC, Carbon
XTOR6B-W-PC1=58W, 4000K, 120V	PC, Carbon Bronze
Refractive Lens	
XTOR6BRL=58W, 5000K, Refractive	Lens, Carbon Bronze
XTOR6BRL-PC1=58W, 5000K, Refrac Carbon Bronze	ctive Lens, 120V PC,
XTOR6BRL-WT=58W, 5000K, Refrac Summit White	tive Lens,
XTOR6BRL-W=58W, 4000K, Refracti Carbon Bronze	ve Lens,
XTOR6BRL-PMA=58W, 5000K, Refra Mount Arm, Carbo	ective Lens, Pole on Bronze
XTOR6BRL-W-PMA=58W,4000K, Re Mount Arm, Ca	fractive Lens, Pole rbon Bronze
XTOR6BRL-PC2=58W, 5000K, Refrac PC, Carbon Bronze	tive Lens, 208-277V
XTOR6BRL-W-PC2=58W, 4000K, Ref 277V PC, Carbor	ractive Lens, 208- Bronze
XTOR6BRL-W-PC1=58W, 4000K, Ref PC, Carbon Bron	ractive Lens, 120V ize
TAN	Eaton 1121 Highway

awaning Business Worldwide



1121 Highwey 74 South Peachtree City, GA 30259 P: 770-486-4800 dimensions subject to www.eaton.com/lighting charge without notice.

## XTOR CROSSTOUR LED

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Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1A Mode	L.	
25°C	> 92%	290,000
40°C	> 92%	290,000
50°C	> 91%	270,000
XTOR2B Mode	l)	
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR3B Mode	1	
25°C	> 91%	280,000
40°C	> 91%	270,000
50°C	> 88%	240,000
XTOR48 Mode	Ľ.	
25°C	> 89%	222,000
40°C	> 87%	198,000
50°C	> 87%	184,000

Accessories (Order Separately)

XTORFLD-KNC=Knuckle Floodlight Kit \*

XTORFLD-TRN=Trunnion Floodlight Kit \*

XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White \*

EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White \*

WG/XTOR=Wire Guard <sup>5</sup>

## ımark

& W3 Date



## XTOR

XTOR1A=Small Door, 7W [Blank]=Bright White 
 XTOR2B=Small Door, 18W
 (Standard), 5000K
 (Standard)

 XTOR3B=Small Door, 26W
 W=Neutral White, 4000K <sup>1</sup>
 WT=Summit White
 XTOR4B=Medium Door, 38W

NOTES: 1. 28, 38, and 48 models only. 2. Photocontrols are factory installed. 3. Order PC2 for 347V models.

Thru-branch wiring not available with HA option or with 347V.
 Wire guard for wall/surface mount. Not for use with floodlight lot accessory.
 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

Housing Color

BK=Black

AP=Grey

BZ=Bronze

GM=Graphite Metal

### STOCK ORDERING INFORMATION

7W Series	18W Series	26W Series	38W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2B=18W, 5000K, Carbon Bronze	XTOR3B=26W, 5000K, Carbon Bronze	XTOR4B=38W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2B-W=18W, 4000K, Carbon Bronze	XTOR3B-W=26W, 4000K, Carbon Bronze	XTOR4B-W=38W, 4000K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2B-WT=18W, 5000K, Summit White	XTOR3B-WT=26W, 5000K, Summit White	XTOR4B-WT=38W, 5000K, Summit White
	XTOR2B-PC1=18W, 5000K, 120V PC, Carbon Bronze	XTOR3B-PC1=26W, 5000K, 120V PC, Carbon Bronze	XTOR4B-PC1=38W, 5000K, 120V PC, Carbon Bronze
	XTOR2B-W-PC1=18W, 4000K, 120V PC, Carbon Bronze		XTOR4B-W-PC1=38W, 4000K, 120V PC, Carbon Bronze

Options (Add as Suffix)

HA=50 C High Ambient \*

PC2=Photocontrol 208-277V 2.3

[Blank]=Carbon Bronze PC1=Photocontrol 120V 2

347V=347V\*





Available in 58W and 81W only.
 Not available with HA option.

11. 120V or 277V only.



Voltage	Model Series				
	XTOR6B	XTOR88	XTOR6B-CBP (Fixture/Battery)	XTOR8B-CBP (Fixture/Battery)	
120V	0.51	0.71	0.60/0.25	0.92/0.25	
208V	0.25	0.39	825	2.5	
240V	0.25	0.35		22.	
277V	0.22	0.31	0.36/0.21	0.50/0.21	
347V	0.19	0.25			
480V	0.14	0.19			





LED Information	XTOR1A	XTOR2B	XTOR2B-W	XTOR3B	XTOR3B-W	XTOR4B	XTOR4B
Delivered Lumens (Wall Mount)	772	2,135	2,103	2,751	2,710	4,269	4,205
Delivered Lumens (With Flood Accessory Kit) <sup>1</sup>	468	1,495	1,472	2,099	2,068	3,168	3,121
B.U.G. Rating <sup>2</sup>	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G0	B2-U0-G
CCT (Kelvin)	5,000	5,000	4,000	5,000	4,000	5,000	4,000
CRI (Color Rendering Index)	65	70	70	70	70	70	70
Power Consumption (Watts)	7W	18W	18W	26W	26W	38W	38W

## CURRENT DRAW

ORDERING INFORMATION

Series

Sample Number: XTOR28-W-WT-PC1

Voltage	Model Series					
	XTOR1A	XTOR2B	XTOR3B	XTOR4B		
120V	0.05A	0.15A	0.22A	0.34A		
208V	0.03A	0.09A	0.13A	0.17A		
240V	0.03A	0.08A	0.11A	0.17A		
277V	0.03A	0.07A	0.10A	0.15A		
347V	0.025A	0.06A	0.082.A	0.12A		

LED Kelvin Color

**XTOR** CROSSTOUR MAXX LED

Series	LED Kelvin Color	Housing Color	Options (Add as Suffix)
Full Cutoff XTOR68=58W XTOR88=81W Refractive Lens XTOR6BRL=58W XTOR6BRL=81W	[Blank]=Bright White (Standard) 5000K W=Neutral, 4000K *	[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black BZ=Bronze AP=Grey GM=Graphite Metallic	347V=347V <sup>2,8,4,6</sup> 480V=480V <sup>2,3,4,4,6</sup> PC1=Photocontrol 120V <sup>7</sup> PC2=Photocontrol 208-277V <sup>3,8</sup> PMA=Pole Mount Arm (C Drilling) with Round Adapter <sup>3,9</sup> HA=50 C High Amblent <sup>6</sup> MS-L20=Motion Sensor for ON/OFF Operation <sup>2,3,16,11</sup> MS/DIM-L20=Motion Sensor for Dimming Operation <sup>2,3,16,11,12,12,16</sup> CBP=Cold Weather Battery Pack <sup>2,2,11,16</sup>
Accessories (Order Se	parately)		
WG-XTORMX=Crosst PB120V=Field Installe PB277V BUTTON PC= VA1040-XX=Single Te VA1041-XX=2@180° Tr VA1042-XX=3@120° Tr VA1043-XX=4@90° Te VA1044-XX=2@90° Te VA1045-XX=3@90° Te VA1045-XX=3@120° T	pur MAXX Wire Guard d 120V Photocontrol Field Installed 208-277V Photocontrol * non Adapter for 3-1/2" O.D. Tenon ** anon Adapter for 3-1/2" O.D. Tenon ** non Adapter for 3-1/2" O.D. Tenon **	VA1033-XX=Single Tenon Adapter fr VA1034-XX=2@180° Tenon Adapter VA1035-XX=3@120° Tenon Adapter fr VA1036-XX=2@90° Tenon Adapter fr VA1038-XX=2@90° Tenon Adapter fr VA1038-XX=2@120° Tenon Adapter fr VA1039-XX=2@120° Tenon Adapter fr VA1039-XX=2@120° Tenon Adapter fr EWP/XTORMX=Escutcheon Wall Pla EWP/XTORMX=Escutcheon Wall FSIB-100=Wireless Configuration To	or 2-3/8" O.D. Tenon ** for 2-3/8" O.D. Tenon ** for 2-3/8" O.D. Tenon ** or 2-3/8" O.D. Tenon ** or 2-3/8" O.D. Tenon ** for 2-3/8" O.D. Tenon ** for 2-3/8" O.D. Tenon ** te, Carbon Bronze I Plate, Summit White of for Orcumancy Sensor **

3. Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20.

 Not available with CBP option.
 Thru-branch wiring not available with HA option or with 347V.
 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 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.

Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
 For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'.

### 12. Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included.

12. Factory set to ove power reduction after formittaes of mactary, comming unverneeded. 13. Includes initigral photo sensor. 14. The FSIR-100 configuration tool is required to adjust parameters including high and low modes; sensitivity, time delay, cutoff, and more. Consult your lighting representative at Eaton for more information.

81W Series
XTOR8B=81W, 5000K, Carbon Bronze
XTOR8B-PC1=81W, 5000K, 120V PC, Carbon Bronze
XTOR8B-WT=81W, 5000K, Summit White
XTOR8B-PC2=81W, 5000K, 208-277V PC, Carbon Bronze
XTOR8B-PMA=81W, 5000K, Pole Mount Arm, Carbon Bronze
XTOR8B-W=81W, 4000K, Carbon Branze
XTOR8B-W-PC1=81W, 4000K, 120V PC, Carbon Bronze
XTOR8B-W-PC2=81W, 4000K, 208-277V PC, Carbon Bronze
XTOR88-W-PMA=81W,4000K, Pole Mount Arm, Carbon Bronze
XTOR8BRL=81W, 5000K, Refractive Lens, Carbon Bronze
XTORSBRL-PC1=81W, 5000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR8BRL-WT=81W, 5000K, Refractive Lens, Summit White
XTOR8BRL-PC2=81W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze
XTOR8BRL-PMA=81W, 5000K , Refractive Lens, Pole Mount Arm, Carbon Bronze
XTOR8BRL-W=81W, 4000K, Refractive Lens, Carbon Bronze
XTOR8BRL-W-PC1=81W, 4000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR8BRL-W-PC2=81W, 4000K, Refractive Lens, 208-277V PC, Carbon Bronze
XTOR8BRL-W-PMA=S1W,4000K, Refractive Lens, Pole Mount Arm, Carbon Bronze

1121 Highway 74 South Peachtree City, GA 30269 Specifications and P: 770-486-4900 dimensions subject to www.eaton.com/lighting change without notice

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ngi pla any any disc do sly O of its ex to T sun and this -23 be # PE may onal to ass ving Profe ĊČ **. GRIESEMER**, 31, 2017. This elect Missouri Board for A r of this electronic dra sistent with the requ GA.  $\geq$ MM (31<sup>2</sup> ber . KEVIN on Decemb ulations of t itects, the u le that is inc utty of t expires c ouri Regul pe Archite twing file Title / to or or Sta and v suant S E L 2 CENTER D This who as a Engi Engi respo Regu ERVICE 5  $\mathbf{S}$ SPIRIT  $\boldsymbol{\mathcal{S}}$ 647 PE-2362 02-09-2017

REVISIONS				
JOB NO:	2017-0018.00			
DRAWN BY:	AWL			
CHECKED BY:	KSG			
DATE:	01-13-2017			
SHEET NO.				
E1	.1			
LIGHT FIXTURE SPECIFICATIONS				



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 is walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations. DESCRIPTION FEATURES Description of the second profile design. Patented, high-efficiency and ult/cUL Listed for wet locations. DESCRIPTION FEATURES Description of the second profile design. Patented, high-efficiency and application spacing, building areas and security lighting application maximizing efficiency and application spacing, south application spacing, atous with the scalability to meet customized application spacing, atous with the scalability to meet customized application requirements. Offered standard in 4000K (H-275K) CCT 70 CRI. Optional 3000K, 5000K and 6000X	Image: Display of the provide p	<page-header><section-header>         ATROUTING DECIDENCIPSION         A CHOUTING COLSPANE ADDR TO ADDR T</section-header></page-header>	Street Side   Function Side Funct
Output in the second s	$\begin{array}{c} \hline \textbf{Warranty} \\ Five-year warranty. \\ \hline \textbf{Warranty} \\ Five-year warranty. \\ \hline \textbf{Warranty} \\ \hline \textbf{Five-year warranty.} \\ \hline \textbf{Five-year warrantex.} \\ \hline \textbf{Five-year warrantex.} \\ \hline$	$\label{eq:second} \begin{split} & \mathbf{f}_{12} \\ & \mathbf{f}_{$	LUMEN MAINTENANCE         Drive Current       Ambient Temperature       TM-2;         Main       Up to 1A       Up to 50°C       >         1.2A       Up to 40°C       >         0       Up to 1A       Up to 50°C       >         0       Up to 40°C       >       >       >         0       Up to 40°C       >       >       >         0       Up to 40°C       >       >       >       >         0       Up to 40°C       >       >       >       >       >         0       Up to 40°C       >       >       >       >       >       >       >       >       >       >       >       >       > </th
Nominal Powering Business Worldweide           Number of Light Squares         1         2         3         4           Nominal Power (Watts)         59         113         166         225           Input Current @ 120V (A)         0.51         1.02         1.53         2.03           Input Current @ 208V (A)         0.29         0.56         0.82         1.11           Input Current @ 208V (A)         0.23         0.42         0.61         0.83           Input Current @ 277V (A)         0.23         0.42         0.61         0.83           Input Current @ 347V (A)         0.17         0.32         0.50         0.64           Input Current @ 480V (A)         0.14         0.24         0.37         0.48           Optics         72         4000K/5000K Lumens         6,116         11,951         17,833         23,563           T2R         4000K/5000K Lumens         6,493         12,688         18,932         25,014           3000K Lumens         5,748         11,231         16,759         22,143           BUG Rating         B1-U0-G1         B2-U0-G2         B2-U0-G2         B3-U0-G2           BUG Rating         B1-U0-G1         B2-U0-G2         B2-U0-G2         B3-U0-G2	www.designlights.org         DEGO020EPT 2016-09-28 15:31:55           BLEON GALLEON LED           S         6         7         8         9         10           1         279         333         391         445         501         558           2.55         3.06         3.56         4.08         4.6         5.07           1.137         1.64         1.93         2.19         2.46         2.75           1.19         1.41         1.67         1.89         2.12         2.39           1.03         1.23         1.45         1.65         1.84         2.09           0.82         1.00         1.14         1.32         1.50         1.68           0.61         0.75         0.91         0.99         1.12         1.28	Minimize	Pawoning Business Worldwide Prove and a convigiture Prove and a convigiture
4000K/5000K Lumens         6,234         12,181         18,176         24,017           3000K Lumens         5,518         10,783         16,089         21,260           BUG Rating         B1-U0-G2         B2-U0-G2         B3-U0-G3         B3-U0-G3           T3R         4000K/5000K Lumens         6,372         12,453         18,580         24,553           3000K Lumens         5,640         11,023         16,447         21,733           BUG Rating         B1-U0-G2         B2-U0-G2         B2-U0-G3         B3-U0-I           4000K/5000K Lumens         6,270         12,252         18,282         24,156           3000K Lumens         5,550         10,845         16,183         21,383           BUG Rating         B1-U0-G2         B2-U0-G2         B2-U0-G3         B3-U0-I           4000K/5000K Lumens         6,189         12,094         18,045         23,84           3000K Lumens         5,479         10,706         15,973         21,107           BUG Rating         B1-U0-G2         B2-U0-G2         B3-U0-G3         B3-U0-I           SL2         3000K Lumens         5,479         10,706         15,973         21,107           BUG Rating         B1-U0-G2         B2-U0-G	7       29,756       35,609       42,111       47,715       53,225       58,930         0       26,340       31,521       37,277       42,237       47,115       52,165         64       B3-U0-G4       B3-U0-G5       B4-U0-G5       B4-U0-G5       B4-U0-G5       B4-U0-G5         0       30,418       36,400       43,048       48,776       54,409       60,239         2       26,926       32,221       38,106       43,177       48,163       53,324         34       B3-U0-G4       B3-U0-G5       B3-U0-G5       B3-U0-G5       B4-U0-G5       B4-U0-G5         36       29,929       35,815       42,356       47,992       53,534       59,271         36       26,493       31,703       37,494       42,483       47,388       52,467         37       26,151       31,294       37,009       41,934       46,777       51,790         37       26,151       31,294       37,009       41,934       46,777       51,790         34       B3-U0-G5       B4-U0-G5       B4-U0-G5       B4-U0-G5       B4-U0-G5         34       B3-U0-G4       B3-U0-G5       B4-U0-G5       B4-U0-G5       B4-U0-G5	600-Drive Current Factory Set to Nominal 100mA <sup>14</sup> 800-Drive Current Factory Set to Nominal 100mA <sup>14</sup> 1200-Drive Sure Mathematical Meth Top To Inning Operation, 7: -00 Mounting Height <sup>18, 28</sup> <th></th>	
4000K/5000K Lumens         6,547         12,794         19,090         25,224           5MQ         3000K Lumens         5,795         11,325         16,898         22,324           BUG Rating         B3-U0-G1         B4-U0-G2         B4-U0-G2         B5-U0-           4000K/5000K Lumens         6,564         12,828         19,141         25,29           3000K Lumens         5,810         11,355         16,944         22,384           BUG Rating         B3-U0-G2         B4-U0-G2         B5-U0-G3         B5-U0-4           BUG Rating         B3-U0-G2         B4-U0-G2         B5-U0-G3         B5-U0-4           SLL/SLR         4000K/5000K Lumens         5,478         10,703         15,970         21,100           3000K Lumens         4,849         9,474         14,137         18,679           BUG Rating         B1-U0-G2         B1-U0-G3         B2-U0-G3         B2-U0-4           RW         3000K Lumens         6,371         12,449         18,576         24,544           BUG Rating         B3-U0-G1         B3-U0-G2         B4-U0-G2         B4-U0-G2         B4-U0-G2           RW         3000K Lumens         5,640         11,020         16,443         21,724	31,253         37,400         44,228         50,114         55,902         61,893           3         27,665         33,106         39,151         44,361         49,484         54,788           G3         B5-U0-G3         B5-U0-G4         B5-U0-G4         B5-U0-G4         B5-U0-G5         B5-U0-G5           1         31,336         37,499         44,347         50,248         56,051         62,058           3         27,739         33,194         39,256         44,480         49,616         54,934           G3         B5-U0-G4         B5-U0-G5         B5-U0-G5         B5-U0-G5         B5-U0-G5           2         26,145         31,286         37,001         41,924         46,765         51,777           3         23,144         27,694         32,753         37,111         41,396         45,833           34         B3-U0-G4         B3-U0-G5         B3-U0-G5         B3-U0-G5         B3-U0-G5           43         30,411         36,392         43,037         48,764         54,396         60,225           35         26,920         32,214         38,096         43,166         48,151         53,311           G2         B5-U0-G3         B5-U0	<ul> <li>A construction of an international step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.</li> <li>Conly for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Log Delta and Three Phase Corner Grounded Delta systems.</li> <li>May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.</li> <li>Factory installed.</li> <li>Maximum 8 light squares.</li> <li>Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.</li> <li>Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.</li> <li>A transformer when with MS, MSX or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 30° or 120°. Refer to arm mounting requirement table.</li> <li>Not available with MS, MSX or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 30° or 120°. Refer to arm mounting requirement table.</li> <li>Not available with LimA AWH wireless sensors.</li> <li>Requires the use of P photocontrol or the PER2 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.</li> <li>So<sup>2</sup> C lume maintenance doBMA, 800mA and 1A drive currents.</li> <li>Approximately 40° detection diameter at 40° mounting height.</li> <li>Approxi</li></ul>	



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