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

Planning Commission Report

- Project Type: Site Development Section Plan
- Meeting Date: May 11, 2020
- From: Annisa Kumerow, Planner
- Location: North side of Chesterfield Airport Road and east of Long Road
- Description: <u>TSG Chesterfield Airport Road, Lot A (Jaguar Land Rover)</u>: A Site Development Section Plan, Landscape Plan, Mitigation Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for an 8.728 acre tract of land zoned "PC" Planned Commercial District located north of Chesterfield Airport Road and east of Long Road.

PROPOSAL SUMMARY

The request is for a 31,000 +/- square foot automobile dealership located north of Chesterfield Airport Road and east of Long Road. The site will house a retail showroom, sales office, and vehicle service facilities for a new Jaguar and Land Rover automobile dealership. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 3082. The exterior building materials will primarily be comprised aluminum composite of panels, aluminum building panels, precast concrete panels and butt-glazed glass.



Figure 1: Aerial image of the subject site

SITE HISTORY

The subject site was originally zoned "NU" Non-Urban District by St. Louis County prior to the City's incorporation. On October 2, 1995, a record plat was approved by the City of Chesterfield establishing lots 1 and 2 of the 84 Lumber Subdivision.

City of Chesterfield Ordinance 2969 was approved by City Council on August 7, 2017, establishing a "PC" Planned Commercial District for Lot 2 of the 84 Lumber Subdivision. Subsequently, a Boundary Adjustment Plat was approved by the City on August 5, 2019, in order to consolidate a small 10-foot wide tract of land located between Lot 2 of the 84 Lumber Subdivision and Chesterfield Commons Seven.

A Site Development Concept Plan and Site Development Section Plan were submitted and reviewed by the City in 2017; however, these applications became inactive and the subject site currently remains vacant.

City of Chesterfield Ordinance 3082 was approved by City Council on January 22, 2020, establishing a new permitted use of "automobile dealership" and revising development criteria for the subject site to increase the permitted building story height from one (1) to two (2) story construction.

LAND USE AND ZONING OF SURROUNDING PROPERTIES

The zoning and land use for the properties surrounding this parcel are as follows:

Direction	Zoning	Land Use
North	"NU" Non-Urban District	I-64/US-40 & Vacant Land
East	"PC" Planned Commercial District	Commons Seven (Undeveloped Lot)
South	"PC" Planned Commercial District	AutoZone/St. Louis Family Church
West	"PC" Planned Commercial District	Car Craft Autobody/Lou Fusz Ford



Figure 2: Zoning Map

Figure 3: Comprehensive Land Use Map

COMPREHENSIVE PLAN

The City of Chesterfield Comprehensive Land Use Plan indicates this development is within the area designated as "Mixed Commercial Use" along with the adjacent properties north of Chesterfield Airport Road and across the I-64/US-40 corridor, while properties south of Chesterfield Airport Road near the subject site are within the "Mixed Use (Retail/Office/Warehouse)" designation as seen in Figure 3 on the previous page. The Comprehensive Plan designates appropriate land uses of the "Mixed Commercial Use" designation as "retail, low-density office, and limited office/warehouse facilities."

Additionally, a number of Plan Policies are applicable to this request. The following items identify the applicable plan policy followed by staff analysis:

3.5.1 Chesterfield Valley Regional Retail and Low Intensity Industry – Regional retail and lowintensity industrial developments should be located in Chesterfield Valley. These include mixed-use office/retail-planned developments, low-intensity industrial assembly, distribution, and research and development business parks, and corporate campuses. Specifically, low-intensity industrial use is encouraged west of Long Road.

The subject site is located in Chesterfield Valley east of Long Road within an existing "PC" Planned Commercial District.

<u>7.2.4 Encourage Sidewalks</u> – Sidewalks should be required of all new developments and encouraged along existing roads in the City of Chesterfield, allowing creative placement to protect the natural environment.

The proposal includes a 5' sidewalk along Arnage Boulevard and a 5' internal sidewalk.

<u>7.2.6 Cross-Access Circulation</u> – Internal vehicular and pedestrian connections between commercial developments should be encouraged.

The subject site will be served by two access points on Arnage Boulevard. Cross access easements extend to the neighboring properties.

The City of Chesterfield's Comprehensive Plan also contains a specific Chesterfield Valley Policies Element. The policies include commercial development with particular concern over the image presented by development along I-64. There are six specific policies of which four are applicable to the design of this project. Staff outlines the applicable policies below and how the Site Development Section Plan (SDSP) relates to those policies.

Policy 1: Facades of Buildings Along I-64 and Arterial Roadways – Care should be taken to make sure that any portion of a building is equally uniform in materials and attractiveness as the primary facade. The intent is to avoid projects having their view from I-64/US 40 or the roadways appear to be the rear or side of a development.

The proposed car dealership is positioned along I-64 in which the primary elevation is the north elevation. The south elevation is the primary viewpoint from the entrance to the site on the Arnage Boulevard extension.

Policy 2: Lighting of Buildings Along I-64/US 40 - The facades of buildings facing I-64 should be lighted to provide an attractive image at night for individuals traveling along I-64.

The lighting currently submitted consists of both decorative and utilitarian lighting. Lights that are not fully shielded flat lensed fixtures that enhance the architecture (decorative) will require approval from Planning Commission.

Policy 3: Automobile Parking for Buildings Along I-64 - Parking should be primarily located to the side or rear of any building façade facing I-64/US 40 or along North Outer 40.

The majority of parking is located to the side and rear of the building, although there are several parking spots located to the front of the building facing I-64. Approximately 21 pre-owned vehicles for sale will be stored along the north side of the property and are not currently proposed to be screened.

Policy 4: Pedestrian Circulation - In order to promote pedestrian movement, each development is required to address pedestrian circulation within and between all developments. This pedestrian system shall be designed in an overall safe, clearly understood plan meeting ADA (American Disabilities Act) requirements.

A 5' sidewalk along Arnage Boulevard and a 5' internal sidewalk are proposed with this development.

STAFF ANALYSIS

Off-Street Parking and Loading

The number of required spaces per the Unified Development Code is 94 spaces with a maximum permitted number of 112 spaces. There are 112 spaces proposed with this development for customer, employee, and service parking. A separate 187 spaces are proposed for outdoor storage. Customer, employee, and service parking is primarily located to the rear of the proposed building, with a few spaces located in the front of the building. Outdoor storage spaces are primarily located on the sides and in front of the proposed building.



Figure 4: Color Site Plan with Parking denoted

Circulation and Access

The subject site will be served by two access points on Arnage Boulevard. Cross access easements extend to the neighboring properties. A 5' sidewalk along Arnage Boulevard and a 5' internal sidewalk are proposed. The building is located in the center of the property with two-way access drives on all sides providing for vehicular access to all areas of the building. Pedestrian access to the building is primarily provided off of the parking area at the rear of the building, where the 5' internal sidewalk connects to a striped path leading to the nearest door.

Landscape Design and Screening

Approval of the Site Development Concept Plan (SDCP) by the Planning Commission for the TSG Chesterfield Airport Road subdivision removed approximately 50,000 square feet of tree canopy from the site. Consequently, 112 mitigation plantings are proposed with this development, as required by City Code and mitigation measures included on the approved SDCP. Additionally, several different areas of landscaping are proposed in accordance with City Code requirements. These include street trees along Arnage Boulevard and parking lot landscaping. A primarily deciduous mix of trees landscapes the parking areas and points of entry.

Due to the Chesterfield Valley Masterplan Drainage Easement and the requirement that plantings be located outside of the 100-year high water elevation, the 30' landscape buffer along I-64 does not contain any plantings. The applicant has provided plantings along the north frontage outside of the 100-year high water elevation, consisting of 4 shrub beds and 2 trees. Each shrub bed contains 13 shrubs, consisting of boxwood and hydrangea shrubs, as well as pollinator beds. Per code, landscape buffers require a combination of deciduous trees, evergreen trees, ornamental trees and shrubs and should enhance and preserve native vegetation. The landscaping proposed to comply with the landscape buffer requirement is a much lower density of planting than similarly situated properties. The proposal includes 4 trees, 52 shrubs, and pollinator beds along approximately 500 feet of frontage.

Rooftop mechanical equipment is included on the building. The mechanical equipment will be screened by a 6' tall pre-finished corrugated metal panel system and metal coping.

There is one trash receptacle proposed at the rear of the building. The receptacle is screened by aluminum panels to match the proposed building. Landscaping surrounds the trash enclosure on three sides.



Lighting

Site lighting is proposed for the parking area as required by City Code. The lighting currently submitted consists of both decorative and utilitarian lighting. The bollard lights which are not fully shielded, flat lensed fixtures will require approval from Planning Commission.



Figure 6: Parking Light



Figure 7: Entry Bollard

Elevations

The request is for a 31,000 +/- square foot automobile dealership. The proposed structure is 26'4" in height. The exterior building materials will primarily be comprised of aluminum composite panels, aluminum building panels, precast concrete panels and butt-glazed glass. The primary elevations are the north elevation (visible from I-64) and the south elevation (visible from the entrance to the site on Arnage Boulevard). The north elevation has the largest variation in articulation and design aspects; however, two aluminum service doors are proposed on the north elevation.

The Unified Development Code outlines specific site design elements in the <u>Site and Building Design</u> <u>Table</u> per Ordinance No. 2801, § 3 (Ex. A) and Ordinance No. 2954 § 2. These elements are outlined below, followed by how the proposed development addresses these elements.

Commercial and Industrial Architecture:

- <u>Access</u> Locate service and loading areas away from public streets and out of the main circulation system and parking areas. Provide access for service vehicles, trash collection and storage areas from alleys when possible. If not possible, utilize the street with the least traffic volume and visual impact.
- <u>Site Design</u> Design and locate building equipment and utilities to minimize visibility from public street.

Two aluminum service doors are proposed on the north elevation, and will be visible from I-64/US-40. I-64 is a highly trafficked roadway and any elements along the north elevation, including the aluminum service doors, will be highly visible to motorists on the interstate. A higher quality door has been proposed to address the architectural design element.

Due to the double frontage of the site, the proposed trash enclosure is proposed to be located on the southern end of the site to reduce visibility from I-64. Landscaping is also included around the enclosure to soften the structure.

The proposal includes building mounted screens on the roof to ensure that rooftop mounted mechanical equipment is screened.



ARCHITECTURAL REVIEW BOARD INPUT

The request was initially reviewed by the Architectural Review Board on Thursday, February 13, 2020. Based on discussion at this meeting, the applicant requested that no action be taken on the project in order to allow time to address the issues raised and to bring the project back to the ARB at a future meeting.

The project was subsequently reviewed by the Architectural Review Board on March 12, 2020. At that time, the Board made a motion to forward the Site Development Section Plan, Landscape Plan, Mitigation Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design to the Planning Commission with a recommendation to approve with the following conditions:

- To further enhance the concept of a four sided building that has equal attractiveness of architectural elements on the front façade (show room) with the sides and rear (service area).
- Introduce a higher quality material, possibly the concrete tilt up panel vs. the corrugated metal as a primary material.

The applicant has incorporated two improvements to the project since the Architectural Review Board Meeting. The first change is the elimination of the corrugated aluminum panels on all elevations, with the exception of the rooftop screening unit. The corrugated aluminum panels have been replaced with precast concrete panels. The second change is the addition of corrugated aluminum panels in a smooth painted finish over the service door on the west elevation. However, these changes have not met the full extent of the Architectural Review Board's intention, specifically regarding the concept of a four sided building that has equal attractiveness of architectural elements on all facades, and how it relates to the west elevation. Additionally, Unified Development Code § 31-04-01D.2.(a) states that all structures should "design and coordinate all facades with regard to color, types and numbers of materials, architectural form and detailing". Furthermore, Chesterfield Valley Policy 1 states that "care should be taken to make sure that any portion of a building is equally uniform in materials and attractiveness as the primary façade." In comparison to

the other elevations, the west elevation does not reflect the concept of a four sided building with equal attractiveness on all sides.



Figure 9: West Elevation

STAFF RECOMMENDATION

Staff has reviewed the Site Development Section Plan, Landscape Plan, Mitigation Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for TSG Chesterfield Airport Road Lot A (Jaguar). Staff has informed the applicant about compliance with the landscape buffer and the Architectural Review Board's motion throughout the review process. The applicant has requested that the matter be forwarded to the Planning Commission in its current form and has provided additional information in the attachments. In conjunction with Unified Development Code § 31-02-10A.2, the proposed development is for Planning Commission consideration.

Staff recommends approval upon the following findings by the Planning Commission:

- The planting density of the proposed landscape buffer is sufficient to meet the buffering requirement; and
- Adequate changes have been made to address the recommendations of the Architectural Review Board.

MOTION

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

- 1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Mitigation Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for TSG Chesterfield Airport Road, Lot A (Jaguar Land Rover) as presented".
- 2) "I move to approve the Site Development Section Plan, Landscape Plan, Mitigation Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for TSG Chesterfield

Airport Road, Lot A (Jaguar Land Rover), with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments: Site Development Section Plan Submittal Packet



Γ	Calculation Sur	nmary									
	Label		CalcType		Units	Av	′g	Max	Min	Avg/Min	Max/Min
	FRONT ROW	DISPLAY @ 4'	Illuminance		Fc	6.3	35	7.8	4.9	1.30	1.59
	JAGUAR LAN	D ROVER WA	Y Illuminance		Fc	0.7	71	2.1	0.1	7.10	21.00
	PARKING LO	Г	Illuminance		Fc	4.4	18	8.0	0.8	5.60	10.00
Γ	ROADWAY		Illuminance		Fc	1.1	7	4.0	0.0	N.A.	N.A.
	ROADWAY_1		Illuminance		Fc	1.1	7	4.0	0.0	N.A.	N.A.
	SPILL LIGHT		Illuminance		Fc	0.0)4	0.7	0.0	N.A.	N.A.
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ymbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts		Descriptio	n		
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	11	F1	SINGLE	1.000	333	3663		GLEON-A	4F-06-LED-	E1-5WQ	
	1	F2	SINGLE	1.000	59	59		GLEON-A	AF-01-LED-	E1-SLL	
	2	F4	SINGLE	1.000	113	226		GLEON-AF-02-LED-E1-SL3			
	4	F5	SINGLE	1.000	225	900		GLEON-A	AF-04-LED-	E1-SL4	
	14	F6	SINGLE	1.000	113	1582		GLEON-A	AF-02-LED-	E1-SL4	
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ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION.

(n.t.s.) FOR USE IN SHEET DRAIN AREAS OF CAR PARKING LOT & ENTRANCE DRIVES WITH FABRIC UNDER CURB & GUTTER

> STANDARD CONCRETE SLOTTED CURB DETAIL (n.t.s.)

(n.t.s.) FOR USE IN SHEET DRAIN AREAS OF CAR PARKING LOT & ENTRANCE DRIVES WITH FABRIC UNDER CURB & GUTTER

A-A SKY EXPOSURE PLANE PROFILE

PR. BLDG.	
F.F.=461.00±	
	<u> </u>

REVISIONS	BY
12/31/19	RMM
1/28/2020	RMM
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	LANDSCAPE GUIDELINE SPECS:	TREES QTY	COMMON / BOTANICAL NAME	SIZE	D Slow 1	Moderate	=ast < 6"	6 - 18"	18 - 36"	> 3' < 18"	3 - 6' 6 - 10		< 15' 15 - 25	5' 25 - 40' 40	- 65' > 65'
		ARM 4 ALE II	Armstrong Red Maple / Acer rubrum 'Armstrong' Athena Lacebark Elm / Ulmus parvifolia 'Emer I'	2.5"Cal 2.5"Cal			•								•
	I.) All natural vegetation shall be maintained where it does not	EH 5 GVZ 9	European Hornbeam / Carpinus betulus Green Vase Zelkova / Zelkova serrata 'Green Vase'	2.5"Cal 2.5"Cal	D D	•	•								•
	interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or veaetation from damaae due to equipment usage. Contractor shall	GL 6 RO 4	Greenspire Littleleaf Linden / Tilla cordata 'Greenspire' Red Oak / Quercus rubra	2.5"Cal. 2.5"Cal		•									•
	at all times protect all materials and work against injury to public. 2.) The landscape contractor shall be responsible for any coordination	SVRM 8	Sun Valley Red Maple / Acer rubrum 'Sun Valley' Swamp White Oak / Quercus bicolor	2.5"Cal 2.5"Cal.		•	•								
	and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of work to be done.	AM 3 OGRM 2	'Flame' Amur Maple / Acer ginnala 'Flame' 'October Glory' Maple / Acer rubrum 'October Glory'	2.5"Cal. 2.5"Cal	ם ם	•							•		•
	3.) Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to	SHL 2	'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal.											•
	determine or verify the existence of and exact location of the above (Call utility location services in municipality).	CBS IG	COMMON / BOTANICAL NAME Colorado Blue Spruce / Picea pungens 'Glauca'	6'-7'		Moderate	-ast < 6"	6 - 18"	18 - 36"	> 3' < 18"	3 - 6' 6 - 10	5' 10 - 15' > 15'	< 15' 15 - 25	5' 25 - 40' 40 •	- 65' > 65'
	4.7 Flant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before	EMARB 9 NS 20	Emerald Arborvitae / Thuja occidentalis 'Emerald' Norway Spruce / Picea abies	6'-7' 6'-7'	E •	•									•
	planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.	FLOWERING TREES QTY	COMMON / BOTANICAL NAME	SIZE	Slow 1	Moderate	=ast < 6"	6 - 18"	18 - 36"	> 3' < 8"	3 - 6' 6 - 10	°' 10 - 15' > 15'	< 15' 15 - 25	5' 25 - 40' 40	- 65' > 65'
	A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.	JTL 22 RHS 4	Ivory Silk Japanese Tree Lilac / Syringa reticulata 'Ivory Silk' Robin Hill Serviceberry / Amelanchier X grandiflora 'Robin Hill''	2.5"Cal.	0									•	
	B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision	SHRUBS QTY	COMMON / BOTANICAL NAME	SIZE											
	C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect	BJUNIOCAJ35	Buffalo Juniper / Juniperus sabina 'Buffalo' Compact Andorra Juniper / Juniperus horizontalis 'Plumosa Comp	5 gal Þacta' 5 gal	_										
	ten (IO) days prior to installation. 6.) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to	CN 37 GGEM 90	Coppertina Ninebark / Physocarpus opulifolius 'Coppertina' Green Gem Boxwood / Buxus x 'Green Gem'	5 gal 18"-24"											
	verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will	GVB 22 GLS 40	Green Velvet Boxwood / Buxus 'Green Velvet' Gro-Low Fragrant Sumac / Rhus aromatica 'Gro-Low'	18"-24" 5 gal	_										
	be accepted without written approval from the landscape architect. 7.) Provide single-stem trees unless otherwise noted in plant schedule.	LH 15 LLHYD 24	Limelight Hydrangea / Hydrangea paniculata 'Limelight' TM Little Lime Hydrangea / Hydrangea paniculata 'Little Lime'	5 gal 5 gal	_				MIXED	POLLINA	ATOR BE	DS ALONG	5 NORTH		
	of ANSI Z60.1 "American Standards for Nursery Stock". 9.) It shall be the contractor's responsibility to provide for inspection of	RCA 7 SBWE 7	Rose Creek Abelia / Abelia x grandiflora 'Rose Creek' Sonic Bloom Weigela / Weigela florida 'Sonic Bloom'	5 gal 5 gal	_				LDGL						/
	the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, during or after	ANNUALS/PERENNIALS QTY	COMMON / BOTANICAL NAME	SIZE					135 PU	RPLE CC		ER	L L.V.		11/1/
	Installation. Mants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.	VL 42	Variegated Liriope / Liriope muscari 'Variegata'	gal					105 BL	ACK-EY >py ret	ED SUSA	×Ν 4,γ γ			Y/E
	any portion of the contract 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: auotes shall be valid for 12 months	FORBS QTY CI 959	COMMON / BOTANICAL NAME Copper Iris / Iris fulva 'Louisiana'	SIZE 2 Qt. @ 18" OC	_				50 AU		Y SEDUM	· · ⊷ · ⊷ · 1			
	II.) Should auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished	0BS 230 ROSEM 358	Ozark Blue Star / Amsonia illustris Rose Mallow / Hibiscus laevis	2 Qt @ 30" OC Gal @ 30" OC											
	side walls" prior to plant material installation. 12.) All excess topsoil, rocks, debris and/or tainted soils shall be removed	SMW 748	Swamp Milkweed / Asclepias incarnata	2 Qt. @ 24" OC										\\ // //	
	by the general contractor prior to point project is turned over to the landscape contractor to commence landscape installation.	GRASSES QTY DFG 8	COMMON / BOTANICAL NAME Dwarf Fountain Grass / Pennisetum alopecuroides 'Hameln'	SIZE 5 gal											SET T R
	l3.) Keep all plant material (except turf) a minimum of 36" clear of fire hydrants. l4.) Landscape contractor shall kill & remove all existing weeds within the project site.	GROUND COVERS QTY	COMMON / BOTANICAL NAME	SIZE									_		SHRED
	15.) All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.		Orange Stonecrop / Sedum kamtschaticum	2.25" Pot											
	16.) Landscape contractor shall be in compliance with all federal, state and local laws / regulations relating to insect infestation and/or plant diseases.	NATIVE GRASSES QTY	COMMON / BOTANICAL NAME Brown Fox Sedge / Carex vulpinoidea	SIZE Plug at 18" OC	-										
	approval.		Great Green Bulrush / Scirpus atrovirens	Plug at 18" OC	_										PREPA
	PRUNING: 1.) Lightly prune trees at time of planting. Prune only the crossover limbs,				_										
	intermingled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown. 2.) All pruning shall comply with ANSI A300 standards.	826	Palm Sedge / Carex muskingumensis	Plug at 18" OC	_								ML N.T.S.	JLTI-STEM	TREE PL
	INSURANCE: 1.) The landscape contractor shall submit certificates of insurance for														
	MULCH:	PLANT SCHEDULE - MIT		1_1	<u>m</u>								·	,e.	
	l.) All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free	ALE 3	Athena Lacebark Elm / Ulmus parvifolia 'Emer l'	2.5"Cal		roaerate	-ast < 6"	0 - 18"	10 - 36"		<u>5-6</u> 6-10	פו < 'הו עו ע 	, <u>(15</u> 15 - 2		> - 00' > 65'
	of all foreign materials, including weeds, mold, deleterious materials, etc. 2.) No plastic sheeting or filter fabric shall be placed beneath shredded bark much beds. Minafi fabric shall be used beneath all analyse much beds.	SHL IO DNM 6	'Skyline' Locust / Gleditsia triacanthos 'Skyline' Deborah Norway Maple / Acer platanoides 'Deborah'	2.5"Cal. 2.5"Cal		•									
	Lap fabric 6" over adjacent coverages. 3.) Edge all beds with spade-cut edge unless otherwise noted.	NS 4	Swamp White Oak / Quercus bicolor Norway Spruce / Picea abies	2.5"Cal. 6'-7'	E										
	MAINTENANCE:	5мад 19 ТСН 12	Saucer Magnolia / Magnolia X soulangiana Thornless Cockspur Hawthorn / Crataegus crusgalli var. inermis	2.5"Cal. 2.5"Cal.											
	I.) Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period	NFP 12 BC 8	Newport Flowering Plum / Prunus cerasifera 'Newport' Bald Cypress / Taxodium distichum	2.5"Cal.	0 D	•									•
	of 12 months after acceptance. 2.) Contractor shall ensure that only competent and trained personnel shall	HRB 4 RHS 12	Heritage River Birch / Betula nigra 'Heritage Improved' Robin Hill Serviceberry / Amelanchier X grandiflora 'Robin Hill''	10'-12'/2.5"Cal 2.5"Cal.											
	provide such services and that such services be provided in a timely manner.	AM II JTL I	'Flame' Amur Maple / Acer ginnala 'Flame' Ivory Silk Japanese Tree Lilac / Syringa reticulata 'Ivory Silk'	2.5"Cal. 2.5"Cal.	D 0	•									
Let use the set of	continue to be provided continuously for the following 72 hours. Regardless, the landscape contractor shall be resposible for all landscape maintenance	RB 5 GL 4	Redbud / Cercis canadensis Greenspire Littleleaf Linden / Tilia cordata 'Greenspire'	2.5"Cal. 2.5"Cal.			•								
 Definition <	until project turnover.	24	TOTAL							11					
 Built of the state of	SIGHT TRIANGLES: 1.) No landscape material or other obstructions shall be placed or be	D-Deciduous O-Orr	namental E-Evergreen												
 a) Propried and a control of a propried and control of a prop	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.														
 A transmission of the state of programmer and the	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		- dra - dra				th	- Twing	-SET SHRUB R THAN ADJAC 3	00T BALL I" HIGI ENT FINISH GRAD NCHES MULCH	HER NE				
 The state is the state	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	PLANT SPACING AS PER PLAN					Land Land	Han							L HYVK .
 In the control of the contr	TOPSOIL:	2" MULCH INSTALLED BEFORE PLANTING	EXISTING GRADE OR PROPOSED G	RADE						SHRUB IS B & B, " MOVE BURLAP &	THEN ROPE			-	WY R LIFE
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 And part of the spectra the s	toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation.					D SUBSOIL	N.T.S.	ERMINE/MA	RK NORTH SID		/		FI	ARE OF TRUNK TO BE	
 In the production of the production of the descent of the	Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.	PERENNIAL /	ANNUAL PLANTING SHRU	JB PLANTING	ON SLO	OPE	OF TO IN S	TREE IN NUR DIGGING AN GAME RELAT	RSERY PRIOR	A A A A A A A A A A A A A A A A A A A				BIBLE BOVE SOIL LIN	
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Introduction of a local method for a period of 12 months of the complete installed priod. 1) All part material (excluding grand cover, perentiple and anuals) of a period of 12 months of the complete installed priod. 2) All part material found to be defective shall be removed and replaced install do the objective shall be removed and replaced install do the objective shall be removed and replaced install do the objective shall be removed and replaced install do the objective shall be removed and replaced install do the objective shall be removed and replaced install do the objective shall be removed and replaced install do the objective shall be required of the end of a period where these. 2) Only one replacement per tree or simb shall be required of the end of the period where these. Plant the back in the shall be required at the end of the period where these. Plant the back is the follow in the shall be required at the end of the completion. 3) Only one replacement per tree or simb shall be required at the end of the period where these. Plant the back is the follow is the completion in the grand the shall be required at the end of the period where these. Plant the back is the follow is the completion. 5) Only one replacement per tree or simb shall be required at the end of the period where these. Plant the back is the follow is the completion. 5) Only one replacement per tree or simb shall be neared the end of the period where these. Plant the back is the follow of the completion. 5) An tree part and part of the completion. 5) An tree part and the dow of the completion. 5) An tree part and part of the dow. 5) An tree part and part of the completion in the dow of the completion. 5) An tree plant the follow of the completion. 5) An tree plant the follow of the completion. 6) An tree plant the follow of the completion. 6) An tree plant the follow of the follow of the completion. 7) An tree plant the follow	basis until vegetation is established.		ANT PINE VARIETIES TOP OF		×. *-				L'HELL	XXP	THE A	PLAN DO NOT CUT CENTRA	AL LEADER	Σ	
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 3) Only one replocement per tree or shrub shall be required at the end of the warranty period, unless loss is due to follure to comply with the warranty. 4) Lown establishment period villes he field once the lawn base been moved three times. Plant establishment period shall commence on the date of acceptance and look completion. 5) A written guaranties and like period willed in #i above. 	2.7 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.					EPARED PLANTIN E SHRUB PLANTIN	VIS IG BED. IG FOR DETAILS.	IBLE ABOVE	E SOIL LINE			- WHITE FLAGGING (TY	P.)		V
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		N.T.S.							V		V	AFTER PLACEMENT	IN PIT		

1	-	
4	5	6

REVISIONS	BY
12/31/19	RMM
1/28/2020	RWM
2/10/2020	RMM
2/18/2020	RMM
2/21/2020	RMM
2/24/2020	RMM
3/13/2020	RMM

TRASH ENCLOSURE FRONT ELEVATION

SCALE: $\frac{1}{4}'' = 1'-0''$

SIDE ELEVATION

SCALE: ¹/₄" = 1'-0"

ROOFTOP HVAC SCREENING SECTION

SCALE: ³/₄" = 1'-0"

JAGUAR/LAND ROVER CHESTERFIELD

Department of Public Services

Apr 28 2020

PRE-FINISHED CORRUGATED ALUMINUM PANEL SYSTEM, TO MATCH **BUILDING FINISH, ON 8"** CONCRETE BLOCK WALL

PRE-FINISHED METAL COPING

SIGHT-PROOF SWING GATES (WITH LATCH) CLAD IN **PRE-FINISHED CORRUGATED** ALUMINUM PANEL, TO MATCH **BUILDING FINISH**

EAST ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

Department of Public Services

RECEIVED

NORTH ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

SOUTH ELEVATION

PRE-FINISHED METAL ALUMINUM COMPOSITE MATERIAL PANEL SYSTEM, TYP. 21'-1" WALL HEIGHT HIGH-SPEED PRE-FINISHED ALUMINUM OVERHEAD DOORS w/

VISION GLASS, TYP.

JAGUAR/LAND ROVER CHESTERFIELD

WEST ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

April 14, 2020

Via Email: (akumerow@chesterfield.mo.us)

City of Chesterfield 690 Chesterfield Pkwy Chesterfield, MO 63005

Attention: Ms. Annisa Kumerow - Planner

Re: TSG Chesterfield Airport Road, Lot 1 SDSP (Jaguar Land Rover) – Response Letter (Stock Project No. (218-6407.4)

Dear Annisa,

We are pleased to offer the following written responses to your comments contained within your departmental letter, dated 04/07/2020.

SDSP Comments

1. A permanent sidewalk easement is required for the proposed sidewalk along the Arnage Road frontage. The record plat for the TSG Chesterfield Airport Road Subdivision is currently under review and the easement can be dedicated on the plat or it can by dedicated by way of a separate document prior to approval of the improvement plans for Lot A. A template standalone easement document is attached to this memo. Either way, the easement must be depicted on the site development section plan. Provide clarification as to how you would like to proceed on this issue.

Response: The permanent sidewalk easement has been added to the Record Plat and shown also on the included Site Development Section Plan.

2. The current plan depicts security gates across both entrances. The gates must meet the requirements of City Code Section 31-04-10, section D, item 6. Code requires a minimum 60-foot stacking distance and a turnaround for rejected vehicles, provided in advance of the gate, designed to accommodate a single unit truck. Please provide backup documentation that these requirements have been met and revise the plan as necessary.

Response: The gates have been removed from the drawings.

3. Per Unified Development Code § 31-04-02K.2.(a), landscape buffers shall contain a combination of deciduous trees, evergreen trees, ornamental trees and shrubs and should enhance and preserve native vegetation. Revise the landscape buffer as necessary to include a mix of vegetation.

Response: Pursuant to the conversation on 04/10/20 the Landscape Plan included in the

257 Chesterfield Business Parkway, St. Louis, MO 63005 636.530.9100 – Main | 636.530.9130 – Fax www.stockassoc.com | general@stockassoc.com submittal includes the necessary plantings for the landscape buffer.

4. As depicted on the current plat, Lot F is an undevelopable lot. Similar to what has been done for the existing portions of Arnage Road to the east, a cross access easement should be established across the necessary lots to establish the roadway. The site development section plan along with the record plat should be revised such that lot lines are adjusted to eliminate Lot F and depict a cross access easement across the necessary lots.

Response: A copy of the provisions in the PSA regarding Ownership & Maintenance of the Road, provided previously via email, has been included in this submittal. It is the intent to leave the roadway as Lot F, as shown.

Elevation Comments

- 1. The Architectural Review Board recommended approval with conditions on March 12th, 2020. The recommendations were as follows:
 - To further enhance the concept of a four-sided building that has equal attractiveness of architectural elements on the front façade (show room) with the sides and rear (service area).
 - Introduce a higher quality material, possibly the concrete tilt up panel vs. the corrugated metal as a primary material

In order to meet the Architectural Review Board's recommendation, revise the west elevation as necessary to create a more uniform and integrated elevation.

Response: The west elevation has gone through two changes since the last submittal. The first is a change to the exterior materials. The areas previously clad in corrugated metal panels have been revised to architectural precast concrete. The corrugated metal panels have been eliminated from the facades of all sides of the building and only remain at the rooftop mechanical screen walls. The second change is revising the architectural precast panels above the service door to a smooth finish painted to match the aluminum composite panels that are above the Front Entry on the North elevation. These changes have been negotiated and approved via Jaguar Land Rover corporate procedures. Additional changes will most likely not be approved by Jaguar Land Rover.

April 14, 2020 Page 3

2. The South elevation depicts two triangles that are not called out on the elevations. For reference, see the image below. Revise the elevation as necessary to include a call out for this item.

Response: The triangles referenced and as seen on the South Elevation are pyramidal skylights above the service department. The Owner has opted to remove these skylights since there have been windows added to the South Elevation. This change is reflected within the enclosed submittal.

As always, we appreciate your continued assistance and support for this project. Should you have any question or comments, please feel free to call.

Sincerely,

Josh Barcus

Joshuah Barcus, P.E. Associate

CC: Jordan Aron (jaron@imperialmotors.com), Green Bay Properties LLC Sam Adler (sadler@tsgproperties.com), TSG Chesterfield Airport Road LLC Bob Flubacker (rfaltd@aol.com), Robert Flu backer Architects "RFA" Limited George Stock, P.E., President Kate Stock Gitto, P.E., Project Manager Todd Ehlen, P.E., Associate John Willems, P.E., Associate

Annisa Kumerow March 2, 2020 Page No. 2

> monolithic box with one function which lends itself to the use of consistent materials on all parts of the building. The differing materials gives the building an identifiable organization and provides the customer a degree of wayfinding to locate and enter into the portions of the building which have the more refined finishes. To arbitrarily apply materials from the customer accessed portions of the building to other areas will confuse and diminish this design pattern.

3. <u>Storage</u>: Screen outdoor storage of goods, equipment or automobiles for sale or service from I-64.

Again, this item was discussed at the hearing and the design of the parking areas with the storage of vehicles primarily on the sides and rear was acceptable.

4. <u>Commercial</u>: Locate Service and loading areas away from public streets, if not possible, itilize the street with the least traffic volume and visual impact.

There was some discussion at the hearing regarding the overhead doors at the Service Reception area that face I-64. I would like to expound on this issue. First, these doors are not service doors. There are no deliveries or products that will enter the building through these doors. These are customer entry doors into the Service Reception area. Customers will drive their vehicle into this staging area for the facility staff to greet and accept the vehicle for service work. In a typical day it is likely that more customers enter the building through these doors than will enter through the main entry doors at the middle of the Showroom. These doors are also predominately glass. They are fast-acting overhead doors similar to the doors in the picture below:

Annisa Kumerow March 2, 2020 Page No. 3

Additionally these doors are 60 feet behind the front facade and significantly downplayed as a dominant. In fact these doors are not visible from traffic Eastbound on I-64 and difficult to see from traffic westbound.

II. Building Materials

The second topic I would like to discuss is the reluctance to approve the metal panel portions of the building. I have the following points to make related to this issue:

1. The City has referenced code requirement, section 31-04-01 Paragraph D3 which references Materials and Colors. In particular, this paragraph lists "Highly reflective materials and prefabricated buildings are discouraged". I would like to point out that the metal panels do not fit into this description. The panels have a paint finish much like any of the other building materials used, such as precast concrete panels, EIFS or painted/stained masonry units. The finish is not reflective at all. Additionally, the metal panel facing does not classify this building as a prefabricated structure. The metal panels are merely a facing material made off site and erected at the job site similar to precast concrete panels or even masonry units. There was discussion at the hearing of potentially adding an additional material to the building but in my opinion this would greatly diminish the clarity of design discussed previously in this letter.

III South Facade

The Board made it clear at the hearing that the South Facade of the building was unacceptable and required more visual interest. The design has been amended to include windows and recesses on the South facade utilized in the same proportions as the Showroom fenestration to provide visual interest in this wall. A nine foot landscape area has also been added in front of the South facade to provide more visual interest and color in front of the building wall. These changes were discussed at the hearing and were generally looked on with favor by the Board.

I suggest that in light of the changes made and the support discussion in this letter that the Board would provide the approval of the submitted design. Please feel free to contact me should you have any questions, comments or concerns. Annisa Kumerow March 2, 2020 Page No. 4

Very truly yours, ROBERT FLUBACKER ARCHITECTS, LTD.

•

Robert Flubacker, AIA President

RECEIVED City of Chesterfield

I Intent of the Project

The proposed building project is to result in a new Jaquar and Land Rover automobile dealership. The site is approximately 8.73 acres located a short block North of Chesterfield Airport Road and just West of Arnage Boulevard. The Northern boundary of the property is the right-of-way for U.S. Route 64. The building size is approximately 31,000 GSF containing retail showroom and sales offices, vehicle service facilities, parts storage and miscellaneous support spaces. The building is predominately a one-story facility with a mezzanine of approximately 5,000 GSF. The main facade of the building will face U.S. Route 64. The balance of the site is made up of vehicular parking, vehicular traffic circulation and landscaped areas. Justin Wyse December 31, 2019 Page No. 2

II General Requirements for Site Design

1. Site Relationship

The project site is situated South of U.S. Route 64 providing the primary visibility of the site to vehicular traffic. Access to the site is via Arnage Road using either Arnage Boulevard or an access road to the West of Auto Zone off of Chesterfield Airport Road. The proposed retail use of the property is consistent with the immediate as well as the general surrounding areas.

2. Circulation system and access.

The building is located generally in the middle of the property with twoway access drives on all sides providing for easy vehicular access to all areas of the building and parking. Customer parking is located on the North end of the property at the most convenient location for entry into the primary sales areas.

3. Topography

The subject property is relatively flat and is only being modified to provide properly designed storm water storage and drainage.

4. Retaining Walls

The proposed development does not currently require the use of any retaining walls.

III General Requirements for Building Design

1. Scale

The building size and height is generally similar and consistent with buildings is the area. There are large open parking areas and landscape areas that separate the building from adjacent properties providing a buffer between the proposed project and existing buildings.

2. Design

The building design is part of a global design standard for the brands of automobiles being sold and serviced at this facility. The design has been created to accentuate the high-end elegance, as well as, the technological focus of the vehicles.

3. Materials and Colors.

The major materials are aluminum composite panels, aluminum building panels and a large format butt-glazed glass showroom wall. The materials are consistently used on all four sides of the building. The colors of the Justin Wyse December 31, 2019 Page No. 3

aluminum components are generally a silver gray. Material samples will be available at the design review meeting.

4. Landscape Design and Screening

The landscaping has been designed to focus attention on the building and eliminate obstructed views from U.S. Route 64. The parking areas are landscaped with oversized islands to minimize the impact of debris from trees affecting the finishes of the parked cars. The intent is to create and maintain a landscaped environment consistent with the level of automobile being represented.

5. Signage

Signage will be submitted as part of a separate application. Signage is a part of the global design standard and is available upon request. Signage will also address directional wayfinding for visitors to the site.

6. Lighting

The site lighting has been designed to highlight the vehicles parked (displayed) and to provide a high level of site security. The building is minimally lit to draw the eye into the showroom and vehicles displayed and illuminated in the showroom during the evening hours.

<u>IV</u> Specific Requirements for Chesterfield Valley

Facades

The building facade will utilize consistent materials on all sides. The building frontage on U.S. Route 64 will be minimally lit, again, to draw the eye to the interior of the showroom. The trash enclosure will be screened with materials consistent with the exterior materials of the building.

Storage

There is no exterior storage with the exception of the vehicular parking of new and used inventory. The intent of the site configuration is for customer parking to be the only parking between the building and U.S. Route 64 therefore providing an unencumbered view of the showroom during off hours.

Utilities

All building utilities will be provided via underground methods.

Parking

Parking is an integral part of the display of vehicles and is designed as

Justin Wyse December 31, 2019 Page No. 4

> such. The site plan provides for large open green spaces to provide a buffer to adjacent properties. The loading doors for the facility are seldom used and do not require screening.

Thank you for the opportunity to submit this project for your consideration. Please feel free to contact me should you have any questions, comments or concerns.

Very truly yours, ROBERT FLUBACKER ARCHITECTS, LTD.

Robert Flubacker, AIA President

DESCRIPTION

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

McGraw-Edison

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast 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 and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

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

Warranty

TYPE "N"

0

G

G

Five-year warranty.

GLEON GALLEON LED

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE

WaveLinx

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

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)

TD500020EN December 2, 2019 3:06 PM

DIMENSION DATA

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

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

3/4" [19mm] Dia ameter Hole

7/8" [22mm]

(2) 9/16* [14mm]

Diameter

[51mm]

1-3/4

(44mm)

ARM MOUNTING REQUIREMENTS

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

STANDARD WALL MOUNT

MAST ARM MOUNT

QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

QM Quick Mount Arm (Standard)

QMEA Quick Mount Arm (Extended)

QUICK MOUNT ARM DATA

Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm {Ibs.}	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	
5-61	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	1.11
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-5 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

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

Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-496-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD500020EN December 2, 2019 3:06 PM

NOMINAL POWER LUMENS (1.2A)

Number o	f Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal F	ower (Watts)	67	129	191	258	320	382	448	511	575	640
Input Curr	ent @ 120V (A)	0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Curr	ent @ 208V (A)	0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Curr	ent @ 240V (A)	0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Curr	ent @ 277V (A)	0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Curr	rent @ 347V (A)	0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.64	1.72	1.92
Input Curr	rent @ 480V (A)	0.15	0.30	0.43	0.60	0.73	0.85	1.03	1,16	1.28	1.45
Optics		1005		1947				187.5	015		
-	4000K/5000K Lumens	6,863	13,412	20.011	26,441	32,761	39,205	46,364	52,534	58,601	64,880
T2	3000K Lumens	6,489	12,681	18,919	25.000	30,974	37,066	43,836	49,668	55,405	61,341
1000	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	84-U0-G5	84-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	7,285	14,238	21,246	28.072	34,780	41.621	49.221	55.770	62,212	68.878
T2B	3000K Lumens	6,888	13,462	20.087	26.541	32,884	39,351	46,537	52,729	58,819	65,122
	BUG Bating	B1-110-G1	82-110-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-110-G4	B3-110-G4	B3-U0-G5	84-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6.995	13.670	20.397	26.951	33,391	39,959	47.256	53 544	59.728	66,130
T3	3000K Lumene	6,613	12 924	19.284	25,480	31,570	37,780	44,679	50,624	56 471	62 524
825A 6	BUG Bating	B1-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	84-U0-G5	84-U0-G5	R4-U0-G5
	4000K/5000K Lumeos	7150	12 972	20.850	27.549	34 134	40.846	49 207	54 734	61.056	87.599
TOP	2000K Lumens	5 761	13,313	10 712	27,545	39,134	99,610	46,507	54,754	57,726	67,000
l an	BUG Rating	P1 110 C2	13,212 P3 110 C3	13,713 P2 LID C2	20,040 P2 110 C4	02,272 P2110 CA	B2 (10 CE	40,070 R2 110 CE	P2 110 CE	07,720	PA HO CE
	4000K E000K Lumona	7.026	12 740	20 616	27107	22 600	40.101	47 620	63-00-05	60.074	66 612
TAFT	2000K Lumana	7,030	10,740	20,010	27,107	33,000	40,191	47,030	50,017	60,074	00,012 60.00E
INFI	BUG Batian	0,002	12,333	19,397	20,023	31,754 P3 U0 CE	37,999	44,930 B2 U0 OF	50,917 B2 U0 CE	50,797	02,000 BA UO CE
	BOG Rating	B1-00-G2	62-00-G3	B2-00-G4	B3-00-G4	00.450	B3-00-G5	B3-00-G5	B3-00-G5	64-00-G5	64-00-G5
	4000K/S000K Lumens	6,945	13,571	20,249	20,750	33,152	39,671	40,917	53,160	59,298	00,003
14W	3000K Lumens	0,500	12,831	19,146	25,29/	31,344	37,508	44,358	50,260	56,064	62,072
	BUG Kating	B1-00-G2	B2-00-G3	B3-00-G4	B3-00-G4	B3-00-G5	B3-00-G5	84-00-G5	84-00-G5	84-00-G5	84-00-G5
	4000K/5000K Lumens	6,851	13,388	19,977	26,396	32,704	39,137	46,283	52,444	58,498	64,768
SL2	3000K Lumens	6,477	12,658	18,888	24,957	30,920	37,003	43,759	49,584	55,308	61,235
	BUG Rating	B1-U0-G2	B2-00-G3	B3-00-G3	B3-U0-G4	B3-U0-G4	B3-00-G5	B4-U0-G5	84-U0-G5	B4-U0-G5	B4-U0-G5
2293 G	4000K/5000K Lumens	6,994	13,668	20,394	26,947	33,388	39,953	47,249	53,537	59,720	66,119
SL3	3000K Lumens	6,612	12,922	19,281	25,477	31,567	37,774	44,673	50,618	56,463	62,514
<u>s</u>	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	84-U0-G5
1075 1	4000K/5000K Lumens	6,645	12,986	19,378	25,603	31,723	37,962	44,893	50,868	56,743	62,824
SL4	3000K Lumens	6,282	12,279	18,321	24,207	29,993	35,892	42,445	48,094	53,648	59,398
<u> </u>	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5	4000K/5000K Lumens	7,214	14,097	21,036	27,795	34,437	41,210	48,734	55,220	61,597	68,199
5NQ	3000K Lumens	6,820	13,329	19,888	26,279	32,558	38,962	46,077	52,208	58,237	64,479
-	BUG Rating	B3-U0-G1	83-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	4000K/5000K Lumens	7,347	14,356	21,423	28,306	35,071	41,969	49,632	56,237	62,730	69,454
5MQ	3000K Lumens	6,947	13,573	20,254	26,762	33,158	39,680	46,925	53,170	59,309	65,667
	BUG Rating	B3-U0-G1	84-U0-G2	B4-U0-G2	B5-U0-G3	85-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	85-U0-G5	85-U0-G5
	4000K/5000K Lumens	7,366	14,396	21,480	28,381	35,164	42,080	49,765	56,386	62,898	69,639
5WQ	3000K Lumens	6,964	13,610	20,308	26,833	33,247	39,786	47,050	53,311	59,468	65,842
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	6,147	12,010	17,921	23,679	29,339	35,109	41,521	47,046	52,478	58,102
SLL/SLR	3000K Lumens	5,811	11,355	16,944	22,388	27,739	33,194	39,256	44,479	49,617	54,933
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	83-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	7,149	13,970	20,846	27,543	34,126	40,837	48,295	54,722	61,042	67,582
RW	3000K Lumens	6,760	13,208	19,709	26,041	32,264	38,610	45,661	51,738	57,713	63,897
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	85-U0-G4	B5-U0-G4	B5-U0-G4	85-U0-G4
	4000K/5000K Lumens	7,175	14,021	20,921	27,643	34,249	40,986	48,470	54,920	61,262	67,828
AFL	3000K Lumens	6,784	13,256	19,780	26,136	32,381	38,750	45,827	51,925	57,922	64,129
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

NOMINAL POWER LUMENS (1A)

<table-container>NemeN</table-container>	Number o	f Light Squares	1	2	3	4	5	6	7	8	9	10
<table-container>jmp concernancejmp concernan</table-container>	Nominal P	ower (Watts)	59	113	166	225	279	333	391	445	501	558
<table-container>jmm<td>Input Curr</td><td>ent @ 120V (A)</td><td>0.51</td><td>1.02</td><td>1.53</td><td>2.03</td><td>2.55</td><td>3.06</td><td>3.56</td><td>4.08</td><td>4.60</td><td>5.07</td></table-container>	Input Curr	ent @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
peqpeqpeqpeqpeqpeqpeqpeqpeqpeqpeqpeqpeqpeqres1001001001000.00 <t< td=""><td>Input Curr</td><td>ent @ 208V (A)</td><td>0.29</td><td>0.56</td><td>0.82</td><td>1.11</td><td>1.37</td><td>1.64</td><td>1.93</td><td>2.19</td><td>2.46</td><td>2.75</td></t<>	Input Curr	ent @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Image Image <t< td=""><td>Input Curr</td><td>ent @ 240V (A)</td><td>0.26</td><td>0.48</td><td>0.71</td><td>0.96</td><td>1.19</td><td>0.41</td><td>1.67</td><td>1.89</td><td>2.12</td><td>2.39</td></t<>	Input Curr	ent @ 240V (A)	0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
headh	Input Curr	ent @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Image Image <th< td=""><td>Input Curr</td><td>ent @ 347V (A)</td><td>0.17</td><td>0.32</td><td>0.50</td><td>0.64</td><td>0.82</td><td>1.00</td><td>1.14</td><td>1.32</td><td>1.50</td><td>1.68</td></th<>	Input Curr	ent @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Deriv v <td>Input Curr</td> <td>ent @ 480V (A)</td> <td>0.14</td> <td>0.24</td> <td>0.37</td> <td>0.48</td> <td>0.61</td> <td>0.75</td> <td>0.91</td> <td>0.99</td> <td>1.12</td> <td>1.28</td>	Input Curr	ent @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
1206006/300K Lumene6.26917.28917.28017.28027.27028.23028.27028.23028.27028.28028.27058.20088.200688.200	Optics			501524	1050	100000	- 3222A	0.0000	10000	1.593.54		
5000 5000 5000 5000 5000 6000 6000 6000 6000 6000 60000 <td></td> <td>4000K/5000K Lumens</td> <td>6,256</td> <td>12.225</td> <td>18,242</td> <td>24,104</td> <td>29.865</td> <td>35,739</td> <td>42.265</td> <td>47,888</td> <td>53,420</td> <td>59,144</td>		4000K/5000K Lumens	6,256	12.225	18,242	24,104	29.865	35,739	42.265	47,888	53,420	59,144
Burg Annu Burg Annu <t< td=""><td>T2</td><td>3000K Lumens</td><td>5,915</td><td>11.559</td><td>17.248</td><td>22,789</td><td>28,236</td><td>33,790</td><td>39,960</td><td>45.277</td><td>50,506</td><td>55,919</td></t<>	T2	3000K Lumens	5,915	11.559	17.248	22,789	28,236	33,790	39,960	45.277	50,506	55,919
book book <thbook< th=""> book book <thb< td=""><td>1000</td><td>BUG Rating</td><td>B1-U0-G2</td><td>B2-U0-G2</td><td>B3-U0-G3</td><td>B3-U0-G4</td><td>B3-U0-G4</td><td>R3-U0-G4</td><td>B4-U0-G5</td><td>84-U0-G5</td><td>B4-U0-G5</td><td>B4-U0-G5</td></thb<></thbook<>	1000	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	R3-U0-G4	B4-U0-G5	84-U0-G5	B4-U0-G5	B4-U0-G5
Image Image <th< td=""><td></td><td>4000K/5000K Lumens</td><td>6.642</td><td>12,979</td><td>19.366</td><td>25.589</td><td>31,705</td><td>37.941</td><td>44.870</td><td>50.840</td><td>56,711</td><td>62,789</td></th<>		4000K/5000K Lumens	6.642	12,979	19.366	25.589	31,705	37.941	44.870	50.840	56,711	62,789
Instrume Instrum Instrume Instrume	T2B	3000K Lumens	6 280	12 271	18 311	24 193	29.976	35,872	42 423	48.068	53 619	59 365
Boline Boline<	1	BLIG Bation	B1-110-G1	B2-110-G2	B2-110-G2	B3-110-G3	B3-110-G4	B3-U0-G4	B3-110-G4	B3-110-G5	B4-110-G5	84-110-G5
Honorea Galo Loco Loco <thloco< th=""> Loco Loco <</thloco<>	<u>-</u>	4000K/5000K Lumens	6 377	12 461	19 503	24 568	30 439	36.426	43.077	48.810	54 447	60.282
book book <th< td=""><td>T2</td><td>2000K Lumona</td><td>6,029</td><td>11 701</td><td>17 500</td><td>24,000</td><td>20 701</td><td>24.441</td><td>40,077</td><td>46,010</td><td>54,447</td><td>56 997</td></th<>	T2	2000K Lumona	6,029	11 701	17 500	24,000	20 701	24.441	40,077	46,010	54,447	56 997
Bold Maing Bridows	13	BLIC Pating	0,025 R1 U0 C2	P2 110 C2	P2 110 C2	23,223	20,701 B2 110 C4	94,441 82.110.CE	90,751	40,100 RA UO CE	B4 U0 CE	90,337
Holocococ Holocococ Holocococ Holococ		ADDAK SODOK Lumana	0.510	10 700	10.000	05 110	01.110	07.005	B4-00-05	40.005	66.00-G5	04-00-00
jounc lumine india india india india india india india india india 1 dension india india <t< td=""><td>700</td><td>4000K/S000K Lumens</td><td>0,518</td><td>12,739</td><td>19,000</td><td>20,113</td><td>31,110</td><td>37,235</td><td>44,030</td><td>49,895</td><td>55,058</td><td>01,022</td></t<>	700	4000K/S000K Lumens	0,518	12,739	19,000	20,113	31,110	37,235	44,030	49,895	55,058	01,022
Biol Rating Biol Local Biol L	138	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,4/8	50,995
Holocksbork Holock Ho		BUG Kating	B1-00-G2	B2-00-G2	B2-00-G3	B3-00-G4	B3-00-G4	B3-00-G5	B3-00-G5	B3-00-G5	B4-00-G5	84-00-G5
Image in the stand in the interpart of the stand interpart of the st	and the second	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
Biol RatingBiol Ratin	T4FT	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
4000K 5000K Lumens 5,980 11,897 18,489 24,391 30,221 34,120 42,480 44,469 64,469 64,469 64,469 64,469 65,086 1000 Rating 61:00-c3 10:00-c3	<u> </u>	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-00-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
TAW 1000 K Lumens50.0011.05017.45223.06128.27038.19040.0864.06565.101065.050BUG RatingB1-00-C6B2-10-C3B2-10-C4B3-10-C4B3-10-C4B3-10-C5B3-10-C5B4-10-C5B4-10-C5B4-10-C5SL23000K Lumens6.24517.20518.10224.06229.81333.72239.80145.19950.41855.822BUG RatingB1-00-C3B2-00-C3B3-10-C4B3-10-C4B3-10-C4B4-00-C5B4-00-	G2233897 - 1	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
BUG Rating Bi-Uo-Cg Bi-Uo-Cg <	T4W	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
4000K/5000K Lumens 6,245 7,200 <td>85 3</td> <td>BUG Rating</td> <td>B1-U0-G2</td> <td>B2-U0-G3</td> <td>B3-U0-G4</td> <td>B3-U0-G4</td> <td>B3-U0-G5</td> <td>B3-U0-G5</td> <td>B4-U0-G5</td> <td>B4-U0-G5</td> <td>B4-U0-G5</td> <td>B4-U0-G5</td>	85 3	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
900K Lumen 5,904 1,939 1,939 2,939 3,939	6.253 8	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
BUG Raino B1-U0-02 B2-U0-63 B3-U0-63 B3-U0-64 B3-U0-64 B4-U0-65	SL2	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
Addot.KoonClumens6.3.7612.40012.40074.50024.56430.43036.40144.90244.90354.43060.0273SL32000K Lumens6.0.2011.70017.57017.57023.22434.04034.04040.70344.91051.40156.986BUOK SGOOK Lumens6.0.2011.10017.57017.57023.22483.040483.40084.00284.04084.04064.73767.73767.737SL42000K SGOOK Lumens6.57711.13016.70122.00727.34183.04083.	2 V	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SLA9000K Lumens6,0.0811,70017,75022,22482,76034,40544,02344,14161,40165,080BLG Rating81-U0-G82-U0-G <td>5</td> <td>4000K/5000K Lumens</td> <td>6,376</td> <td>12,460</td> <td>18,591</td> <td>24,564</td> <td>30,436</td> <td>36,421</td> <td>43,072</td> <td>48,803</td> <td>54,439</td> <td>60,273</td>	5	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
Hor RatingB10-0c2B2.00-30B2.00-30B3.00-64B3.00-64B3.00-65B3.00-	SL3	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
A000K5000K1umems6.058911.83917.86423.34028.91834.60540.92440.92446.70757.72757.878300K1umens57.7711.91910.70122.06727.31437.91836.902 <t< td=""><td></td><td>BUG Rating</td><td>B1-U0-G2</td><td>B2-U0-G3</td><td>B2-U0-G3</td><td>B3-U0-G4</td><td>B3-U0-G4</td><td>B3-U0-G5</td><td>B3-U0-G5</td><td>B3-U0-G5</td><td>B4-U0-G5</td><td>B4-U0-G5</td></t<>		BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SLA3000 Lunens5,72711,19316,70122,0727,34132,71838,96243,84144,90964,149400 Kromp61,01081,010382,100382,100382,100382,100383,1003		4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
HUG RatingB1-U0-02B1-U0-02B2-U0-04B2-U0-04B2-U0-05B3-U0	SL4	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
4000K5000KLumens65.7712.85119.7625.36331.32237.56644.42650.37356.17162.1705NO200KLumens6.21812.15118.13123.95529.68035.17042.00344.20355.07955.079BUG Rating82.00-GB3.00-GB3.00-GB4.00-G84.00-G85.00-G<	· · · · · ·	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NO300K Lumens6,21812,15118,13123,95529,68038,17142,00347,59253,08956,793BLG RatingB2-U0-GB3-U0-GB3-U0-GB4-U0-GB4-U0-GB5-U0-G<		4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
BUG RatingB2-U0-0B3-U0-0B4-U0-0B4-U0-0B5-U0-0 <td>5NQ</td> <td>3000K Lumens</td> <td>6,218</td> <td>12,151</td> <td>18,131</td> <td>23,955</td> <td>29,680</td> <td>35,517</td> <td>42,003</td> <td>47,592</td> <td>53,089</td> <td>58,779</td>	5NQ	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
4000K/5000K Lumens6.69713,08019,52825,03031,97038,25845,24351,26457,16363,3135MCM500K Lumens6.33212,33418,46324,39330,22730,17142,77044,64857,40358,40659,6115MCM500K Lumens63,03084,00284,00285,0038		BUG Rating	B2-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	B5-U0-G4
5MQ500K Lumens6.33212,37418,46324,39530,27236,17142,77648,46854,06855,068400 Kating83.000184.000284.000284.000285.0002<		4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
BUG RatingB3-U0G1B4-U0G2B4-U0G2B5-U0G3B5-U0G4B5-U0G4B5-U0G3 <td>5MQ</td> <td>3000K Lumens</td> <td>6,332</td> <td>12,374</td> <td>18,463</td> <td>24,395</td> <td>30,227</td> <td>36,171</td> <td>42,776</td> <td>48,468</td> <td>54,066</td> <td>59,861</td>	5MQ	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
Mode/SourceMode/Sourc		BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	85-U0-G3	85-U0-G4	85-U0-G4	85-U0-G4	B5-U0-G5	B5-U0-G5	85-U0-G5
SWQ300K Lumens6.34812.40018.51324.46130.30736.26842.99148.59954.2060.021BG Raing83.00284.00285.002 <td>1</td> <td>4000K/5000K Lumens</td> <td>6,715</td> <td>13,122</td> <td>19,580</td> <td>25,871</td> <td>32,055</td> <td>38,360</td> <td>45,365</td> <td>51,401</td> <td>57,337</td> <td>63,482</td>	1	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
BUG RatingB3-U0-G2B4-U0-G2B5-U0-G3B5-U0-G3B5-U0-G4B5-U0-G4B5-U0-G3B5-U0	5WQ	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
4000K/5000K Lumens5.60410.94916.33721.58626.74532.00437.85044.98647.83852.965500K Lumens5.29810.35115.46620.40925.28730.25833.78640.57044.02545.22955.077BUG RatingB1.00-2B1.00-3B2.00-3B2.00-3B2.00-6B3.00-6B3.00-5B		BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	85-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SER 3000K Lumens 5,298 10,351 15,446 20,409 25,287 30,258 35,786 40,547 45,229 50,077 BUG Rating B1-00-G B1-00-G B2-00-G B2-00-G B3-00-G B3-00-	1	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
BUG Rating B1-U0-G2 B1-U0-G3 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G5	SLL/SLR	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
4000K/5000K Lumens 6,517 12,735 19,002 25,107 31,109 37,227 44,025 49,883 55,644 61,607 RW 3000K Lumens 6,162 12,040 17,965 23,738 29,413 35,197 41,623 47,163 52,609 58,247 BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G4		BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW 3000K Lumens 6,162 12,040 17,965 23,738 29,413 35,197 41,623 47,163 52,609 58,247 BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G4 B4-U0-G4 <		4000K/5000K Lumens	6,517	12,735	19.002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
BUG Rating B3-U0-G1 B3-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3 B5-U0-G3 B5-U0-G3 B5-U0-G4	RW	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
4000K/5000K Lumens 6,541 12,781 19,072 25,199 31,221 37,362 44,185 50,065 55,846 61,831 AFL 3000K Lumens 6,184 12,084 18,032 23,825 29,519 35,325 41,775 47,334 52,801 58,459 BUG Rating B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B4-U0-G4 B4-U0-G4	1	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL 3000K Lumens 6,184 12,084 18,032 23,825 29,519 35,325 41,775 47,334 52,801 58,459 BUG Rating B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B4-U0-G4 B4-U0-G4		4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
BUG Rating B1-U0-G1 B2-U0-G2 B2-U0-G2 B3-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B4-U0-G4 B4-U0-G4	AFL	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	1	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

NOMINAL POWER LUMENS (800MA)

Number o	f Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal P	ower (Watts)	44	85	124	171	210	249	295	334	374	419
Input Curr	rent @ 120V (A)	0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Curr	ent @ 208V (A)	0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Curr	ent @ 240V (A)	0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Curr	ent @ 277V (A)	0.17	0.36	0.47	0.72	0.83	0.95	1,19	1.31	1.42	1.67
Input Curr	ent @ 347V (A)	0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Curr	ent @ 480V (A)	0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
	4000K/5000K Lumens	5.054	9,878	14,739	19,475	24,129	28,875	34,148	38,691	43,159	47,785
T2	3000K Lumens	4,779	9,338	13.935	18,412	22.813	27,301	32.286	36,581	40,805	45,179
-0339 - 5	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-G5	B4-U0-G5
9 9	4000K/5000K Lumens	5,366	10,486	15,647	20,675	25.616	30,654	36,252	41,076	45,819	50,730
T2R	3000K Lumens	5.074	9,914	14,794	19,548	24,218	28,982	34,276	38,835	43,320	47.964
1999.0	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
2	4000K/5000K Lumens	5.153	10.068	15.022	19.849	24,593	29,430	34,805	39.436	43,990	48.705
т3	3000K Lumens	4.872	9.519	14.203	18,766	23.251	27.825	32,907	37,285	41.591	46.048
	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
8 a	4000K/5000K Lumens	5,266	10.292	15.356	20.290	25.140	30.084	35.578	40.312	44.968	49.786
T3R	3000K Lumens	4,979	9,731	14,518	19.184	23,769	28 443	33,638	38 114	42.516	47.071
	BUG Bating	B1-U0-G2	B1-U0-G2	B2-110-G3	82-U0-G3	B3-110-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-110-G5	83-U0-G5
	4000K/5000K Lumens	5 182	10 126	15 109	19.964	24 736	29 600	35.006	39.664	44.245	48 987
TAFT	3000K Lumens	4,899	9.574	14 285	18,876	23,387	27.986	33.097	37,501	41,832	46,315
	BLIG Rating	B1.U0.G2	B1.U0.G2	82.U0.G3	B2.110.G4	B3-110-G4	83-110-G4	B3-110-G5	B3.110.G5	83.110.G5	83.U0.G5
	4000K/5000K Lumens	5 115	9.995	14 914	19 706	24 417	29.218	34 554	29 152	43 674	49 354
TAW	2000K Lumens	4 926	9,000	14,014	19,621	22,095	27.624	33,534	27.017	41,074	40,004
1400	BLIG Ration	R1.110.62	B2-110-G2	B2-110-02	B3-110-G4	83-110-G4	82-110-GA	82.U0.G5	83.110.G5	84-110-G5	45,717 BA.U0.G5
	4000K/E000K Lumeas	51-00-02 E 046	0.960	14 712	10.441	24.097	20.025	34,090	20.00-00	42.005	47.702
CI D	2000K Lumana	4 771	0,000	14,713	10 901	24,007	20,025	24,003	30,025 30 E10	43,005	47,702
312	BUG Ratias	4,771 B1 U0 C1	9,322 B2 U0 C2	13,911 P3 U0 C2	10,301 B3 110 C2	22,774 R2 110 G4	27,203	32,229 P2 U0 C4	30,010 P2 U0 CE	40,735 P2 UA CE	40,101 P4 U0 C6
	A000K E000K Lumona	E 150	10.007	15.000	10.046	24 501	20.426	24.900	20.421	42.004	40.600
61.9	4000K/S000K Lumens	5,152	0.510	16,020	10,764	24,531	23,420	34,000	33,431	43,304	40,030
313	BUC Paties	4,0/1	3,516	14,200 B3 U0 C3	10,704 P2 U0 C2	23,243	27,022	32,302 R3 U0 CF	37,200	41,000	40,042 P2 U0 CF
<u>ii</u> (BOG Rating	B1-00-62	B1-00-G2	B2-00-G3	10.057	B3-00-G4	83-00-64	B3-00-G5	83-00-65	B3-00-G5	46.020
	4000K/5000K Lumens	4,894	9,000	14,271	18,657	23,304	27,959	33,065	37,405	41,792	40,270
SL4	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
<u> </u>	BUG Rating	B1-00-G2	B1-00-G3	B1-00-G3	82-00-64	B2-00-G4	82-00-64	82-00-G5	B3-00-G5	B3-00-G5	B3-00-G5
-	4000K/5000K Lumens	5,313	10,383	15,493	20,470	25,363	30,351	35,893	40,669	45,367	50,229
5NQ	3000K Lumens	5,024	9,817	14,647	19,354	23,980	28,696	33,936	38,452	42,893	47,490
<u>e</u> 1	BUG Rating	B2-00-G1	B3-00-G1	B3-00-G2	84-00-G2	84-00-G2	84-00-G2	85-00-G3	B5-00-G3	85-00-G3	85-00-G3
-	4000K/5000K Lumens	5,411	10,574	15,778	20,848	25,830	30,911	36,554	41,418	46,202	51,154
5MQ	3000K Lumens	5,117	9,997	14,917	19,710	24,421	29,225	34,561	39,160	43,682	48,364
<u></u>	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	85-U0-G3	85-U0-G3	85-U0-G4	85-U0-G4	85-U0-G4	85-U0-G4
	4000K/5000K Lumens	5,426	10,603	15,820	20,903	25,899	30,992	36,652	41,529	46,325	51,290
5WQ	3000K Lumens	5,130	10,025	14,958	19,763	24,486	29,302	34,654	39,263	43,799	48,493
2	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	85-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	4,528	8,846	13,199	17,440	21,609	25,858	30,580	34,649	38,651	42,792
SLL/SLR	3000K Lumens	4,281	8,364	12,480	16,489	20,430	24,448	28,912	32,759	36,543	40,459
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	5,265	10,289	15,353	20,285	25,134	30,077	35,569	40,303	44,958	49,775
RW	3000K Lumens	4,978	9,727	14,516	19,179	23,763	28,437	33,629	38,105	42,506	47,060
	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-G4
	4000K/5000K Lumens	5,285	10,327	15,409	20,360	25,225	30,186	35,699	40,450	45,120	49,956
AFL	3000K Lumens	4,996	9,763	14,569	19,249	23,849	28,540	33,752	38,244	42,659	47,232
L	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

NOMINAL POWER LUMENS (600MA)

Number o	f Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal P	ower (Watts)	34	66	96	129	162	193	226	257	290	323
Input Curr	ent @ 120V (A)	0.30	0.58	0.86	1.16	1,44	1.73	2.03	2,33	2.59	2.89
Input Curr	ent @ 208V (A)	0.17	0.34	0.49	0.65	0.84	0.99	1,14	1.30	1.48	1.63
Input Curr	ent @ 240V (A)	0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Curr	ent @ 277V (A)	0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Curr	ent @ 347V (A)	0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Curr	ent @ 480V (A)	0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
	4000K/5000K Lumens	4,121	8,055	12,019	15,881	19,676	23.547	27,847	31,552	35,196	38,967
T2	3000K Lumens	3.896	7.615	11,363	15.015	18,604	22,263	26.328	29.831	33,276	36.842
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	82-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
a - a	4000K/5000K Lumens	4.376	8 552	12,760	16,860	20,890	24,998	29.563	33 497	37.365	41.369
T28	3000K Lumens	4 138	8.085	12,064	15 941	19,751	23,635	27.951	31.670	35.328	39 113
	BUG Bating	B1-U0-G1	B1-110-G2	B2-110-G2	B2-110-G2	B2-110-G2	B3-110-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
<u>ia</u> 11	4000K/5000K Lumens	4 201	8 210	12 251	16 187	20.055	23 999	28 383	32 159	35,873	39.718
T2	2000K Lumans	2,072	7 789	11 592	15 204	19.961	22,691	26,000	20,406	22.916	27.552
61 6	BLIG Bating	B1-U0-G1	B1-U0-G2	B2-110-02	B2-LID-G2	83-110-62	B3-110-G4	R3-U0-04	B3-U0-G4	83-U0-GA	83-LID-GE
00 - E	4000K/5000K Lumace	4 294	8 303	12 523	16 546	20.501	24 532	29.014	32.875	36 671	40.600
T3P	3000K Lumens	4,234	7 0 2 6	11.940	16,040	10 393	24,032	27,014	31,000	34,674	30 300
Tan	BUG Ration	4,000 P1.100.C1	7,930 P1 110 C2	11,040 P2 110 C2	15,044 P2 110 C2	19,303	23,195 P2 110 C4	27,432 B2110.C4	31,082 P3 110 C4	34,071	30,300 P2 110 CE
.	ADOR / TOOOK Lumana	BI-00-GI	0.057	10.001	10.000	20.172	24.120	20.543	00-04	26.000	20.040
TAFT	2000K Lumens	4,220	3,007	12,321	16,280	20,172	24,139	20,047	32,340	30,082	39,946
1471	3000K Lumens	3,996	7,807	11,649	15,392	19,071	22,822	26,990	30,582	34,114	37,770
	BOG Rating	BI-00-GI	B1-00-G2	B2-00-G2	82-00-63	B2-00-G4	83-00-64	83-00-64	B3-00-G5	83-00-65	B3-00-G5
	4000K/5000K Lumens	4,1/1	8,151	12,162	16,071	19,912	23,827	28,178	31,928	35,615	39,432
T4W	3000K Lumens	3,943	7,706	11,498	15,194	18,825	22,527	26,642	30,187	33,673	37,281
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	82-00-G3	B3-U0-G4	B3-00-G4	B3-00-G4	B3-00-G5	B3-00-G5	B3-00-G5
	4000K/5000K Lumens	4,114	8,041	11,998	15,854	19,643	23,506	27,799	31,498	35,135	38,901
SL2	3000K Lumens	3,890	7,603	11,344	14,989	18,572	22,224	26,282	29,780	33,219	36,779
	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
Juan B	4000K/5000K Lumens	4,200	8,209	12,249	16,184	20,053	23,996	28,379	32,154	35,869	39,712
SL3	3000K Lumens	3,972	7,762	11,580	15,302	18,960	22,688	26,831	30,400	33,913	37,546
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
in the second	4000K/5000K Lumens	3,992	7,799	11,638	15,378	19,053	22,801	26,964	30,552	34,081	37,733
SL4	3000K Lumens	3,774	7,374	11,003	14,539	18,015	21,557	25,493	28,886	32,222	35,674
	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
Summer 3	4000K/5000K Lumens	4,333	8,467	12,634	16,694	20,683	24,751	29,271	33,166	36,996	40,961
5NQ	3000K Lumens	4,097	8,005	11,945	15,784	19,555	23,401	27,674	31,357	34,978	38,727
	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
	4000K/5000K Lumens	4,413	8,622	12,867	17,000	21,064	25,207	29,810	33,777	37,677	41,715
5MQ	3000K Lumens	4,173	8,152	12,165	16,073	19,915	23,832	28,185	31,934	35,623	39,440
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
ng tasa at a ta	4000K/5000K Lumens	4,424	8,646	12,900	17,046	21,120	25,274	29,890	33,866	37,778	41,826
5WQ	3000K Lumens	4,182	8,175	12,197	16,117	19,968	23,896	28,260	32,018	35,717	39,545
	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
	4000K/5000K Lumens	3,692	7,214	10,763	14,222	17,621	21,086	24,937	28,256	31,519	34,897
SLL/SLR	3000K Lumens	3,491	6,820	10,176	13,447	16,660	19,937	23,577	26,715	29,800	32,994
	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
	4000K/5000K Lumens	4,293	8,390	12,520	16,542	20,496	24,527	29,007	32,866	36,662	40,591
RW	3000K Lumens	4,059	7,932	11,837	15,640	19,378	23,189	27,425	31,074	34,662	38,377
	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
	4000K/5000K Lumens	4,310	8,421	12,566	16,602	20,571	24,616	29,112	32,986	36,795	40,738
AFL	3000K Lumens	4,074	7,962	11,881	15,697	19,448	23,273	27,525	31,187	34,788	38,516
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	82-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage, pattern for mounting heights from 8'-40'.

LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

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

WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

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

Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at <u>www.synapsewireless.com</u> for product support, warranty and terms and conditions.

1121 Highway 74 South Peachtree City, GA 30269 P. 770.496.4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice able Number: GLEON, AE 04 LED E1 T2 GM, OM

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution		Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 ⁵ 07=7 ⁵ 08=8 ⁵ 09=9 ⁹ 10=10 ⁴	LED=Solid State Light Ernitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ¹⁸	T2=Type II T2R=Type II Roadway T3=Type III Roadway T3=Type III Roadway T4FT=Type IV ForwardThror T4HT=Type IV ForwardThror T4HT=Type IV Wride SNQ=Type V Square Mide SNQ=Type V Square Mide SL2=Type IV wSpill Control SL3=Type II wSpill Control SL4=Type IV wSpill Control SL4=00° Spill Light Eliminat SLR=00° Spill Light Eliminat RW=Rectangular WideType AFL=Automotive Frontline	w m or Left tor Right I	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ Ma=Meat Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²
Options (Add a	is Suffix)		10-		- A1	Accessor	ies (Order Separately)	23
7030=70 CRI 3000 8030=80 CRI 3000 7050=70 CRI 5000 7060=70 CRI 5000 600=Drive Current 1200=Drive Current 1200=Drive Current F=Single Fuse (12 ZL=Two Circuits ¹²¹ DIM=External 0-10 DIM=External 0-10 AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon AHD345=After Hon Coptics Rotate MT=installed Mesi TH=Tool-Itess Door HSS=installed Hox CE=CE Marking ²⁰ LCF=Light Square	K ¹¹ K ¹² K ¹² Set to Nominal 600mA ¹⁹ Set to Nominal 1200mA ¹ It Set to Nominal 1200mA ¹ t Set to Nominal 1200mA ¹ (277 or 3477/Specify Volta 08, 240 or 480V. Specify Volta 08, 240 or 480V. Specify Volta W Dimming Leads ^{110,00} t tegrated Control Module ¹⁴ urs Dim, 6 Hours ²² urs Dim, 6 Hours ²² urs Dim, 6 Hours ²² urs Dim, 7 Hours ²² urs Dim, 8 Hours ²² bient ²³ d 90° Right 170p Hardware use Side Shield ²⁸ Trim Painted to Match Hous	PER7= R=NE1 MS-L0 MS-L2 MS-L4 MS-D1 gel MS/D1 gel MS/D1 gel MS/D2 MS/X MS/X MS/X UWR-L LWR-L ZW-SV ZW-SV	NEMA 7-PIN Photocontrol Riv WA Photocontrol Receptacles Be-Motion Sensor for ONOF 09-Motion Sensor for ONOF 09-Motion Sensor for ONOF 09-Motion Sensor for DIM-L409-Motion Sensor for L408-Bi-Level Motion Sensor for 120-Bi-Level Motion Sensor 140W-Bi-Level Motion Sensor 140W-Bi-Level Motion Sensor N=LumaWatt Pro Wireless S WaveLinx-enabled 4-PINTwist WPD4XX=Wavelinx-Wireless NPD5XX=Wavelinx-Wireless	sceptacle ²¹ P Operation, Maximu F Operation, 9' - 20' N JFF Operation, 9' - 20' N JFF Operation, 9 Imming Operation, 9 Imming Operation, 9 Imming Operation, 9 Maximum 8' Mount 9' - 20' Mounting He or, 21' - 40' Mounting He or, 21' - 40' Mounting He lock Receptacle ^{91,33} Sensor, 7' - 15' Mour Sensor, 15' - 40' Mou	m 8' Mounting Height ²⁴ Nounting Height ²⁴ Aaximum 8' Mounting Height ²⁴ - 20' Mounting Height ²⁴ 21' - 40' Mounting Height ²⁴ ing Height ^{24,35} Height ^{24,35} 8' - 16' Mounting Height ²⁶ or 16' - 40' Mounting Height ²⁸ atting Height ^{13,25,36} miting Height ^{13,25,36}	OA/RA1027 OA/RA1013 OA/RA1013 OA/RA1013 OA/RA1013 OA/RA1014 MA1035-X0 MA1035-X0 MA1037-X0 MA1189-X0 MA1189-X0 MA1189-X0 MA1190-X0 MA1190-X0 MA1193	LeNEMA Photocontrol - 480V HEMA Photocontrol - 347V HEMA Photocontrol - 347V HePhotocontrol Shotting Cap HePhotocontrol Shotting Cap Le 120V Photocontrol XV Surge Module Replacem Cas 2007 Fanon Adapter for 2 Cas 2007 Fanon Adapter for 3 Cas 2007 Fanon Adapter for 5 Cas 2007 Fanon Adapter for	ent 38° O.D. Tenon 38° O.D. Tenon 12° O.D. Tenon 31/2° O.D. Tenon 12° O.D

NOTES:

NOTES: 1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium[®] Cualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRL 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QME) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or comer grounded systems loommonly known as Three Phase Three Wise Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° (rilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum B light squares. 13 Extended lead times sendicated IES files for 2000K, 3000K, 5000K and 6000K when performing layouts. 14 Available in 800mA only. 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X 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. Extanded arm option may be required when mounting two or more fixtures per pole at 90° or 120°, Refer to arm mounting requirement table. 10 Housiable with LumaWatt Pro priviles esensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18° outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P phot

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

Product Family	Camera Type	Data Backhaul	
L=LumenSafe Technology*	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility

Date:	Customer:		,
Project:			k.
Туре:		Qty:	

Notch Bollard LED

Order Code:	NT -								
		F	ole Order	Code: _				Outing	-
	Series	NT Notch Bollarc	I LED		Series	Height	Finish	Options	
	Height	1.5 1.5 ft. (consult factory)	2 2 ft. (consult factory)	2.5 2.5 ft.	3 3 ft.	3.5 3.5 ft.	4 4 ft.		*For other heights, please consult factory
	Light Engine	LG4500 10W	LG47 14W	00					
	ССТ	30 3000K	35 3500K	40 4000K	50 5000K				
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premi	um Color	
	Voltage	120* 120V	208 208V	240* 240V	277 * 277∨	347 ¹ 347∨	480 ¹ 480∨		'Equipped with internal stepdown transformer *Specify for HL option
	Options	DM Dimming (0-10V) REC3 USB & Duplex Receptacle w/ weather- proof cover	HLXX ^{2,3} Hi-Lo Switching REC4 USB & Duplex Receptacle w/weather- proof padlockable	PC Photocell (consult factory)	REC GFCI Receptacle w/ weather- proof cover	REC2 GFC1 Receptacle w padlockable in-use cover	/		² 120V, 240V & 277 only. ³ DM or HL only. Cannot be combined

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Specifications

Fixture Housing - Made from die cast, low copper aluminum alloy.

Gasketing - Continuous molded silicone gasket provides weatherproofing, dust and insect control at shielding base, and fixture cover.

Shielding - Transparent, continuous one-piece injection molded, UV stabilized polycarbonate lens, minimum wall thickness ⁵/16" (8.25mm). Shielding is flush with column surface completely enclosing optic chamber.

LED Array - LEDs mounted to metal core PC boards and directly attached to aluminum heat sink for maximum LED performance and life. Includes LED drivers and precise high performance injection-molded lenses. Complete light engine can be easily replaced. LEDs can be started and re-started instantly at temperatures as low as -20°. For lumen maintenance information, see IESTM-21-11 details.

LED Optics - High precision injection molded lenses consisting of Total Internal Reflection (TIR) collimator and light shaping lens. Lenses produce an asymmetric distribution. **Column -** Extruded thick-walled low copper aluminum, minimum wall thickness 0.118" (3mm) with internal anchor bolts and flush handhole cover.

Surge Protection - Designed to protect luminaire from electrical surge (up to 10kA).

Exterior Luminaire Finish -

Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty -

Selux offers a 5 Year Limited Warranty to the original purchaser that the Selux LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the fixture, LED driver and LED light engine when installed and operated according to Selux instructions. Fixture suitable for ambient temperatures of 40° C (104° F). For details and exclusions, see "Selux Terms and Condition of Sale."

Listings and Ratings: Tested to IESNA LM-79-08 and LM-80 test standards at 25° C ambient temperature.

Visit selux.us for our LED End of Life recycling policy.

Wiring Diagrams

Standard Single Wiring

LG4700 at 120-277V for high output. LG4500 at 120-277V for low output.

Hi-Lo Switching Option (HL) Wiring

LG4700 at 120-277V. When red is energized, power consumption will be at "Lo" level. Lo = 70% power consumption.

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347/480V

LG4700 at 347/480V for high output. LG4500 at 347/480V for low output.

Mounting Details

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Anchorage Details

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In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

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Optional Accessories

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weather-proof, self-closing, non-lockable cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For use with 120V applications only. For use with luminaires with other than 120V rating, please consult factory for wire segregation. **GFCI Receptacle (REC2) -** 120V 15A GFCI duplex receptacle with weather-proof, self-closing, padlockable in-use cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For use with 120V applications only. For use with luminaires with other than 120V rating, please consult factory for wire segregation.

Notch Bollard LED

Photometry

14W LED / 3000K CCT

Catalog #: NT-4-LG4700-30 Report #: 830336 Delivered Lumens: 676 Input Watts: 14W Efficacy: 47 CCT: 3000K Maximum candela of 856 at 65° from vertical. Mounting Height: 4' (1.22 M) BUG Rating: B0-U1-G1

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14W LED / 3500K CCT

Catalog #: NT-4-LG4700-35 Report #: 830336_35 Delivered Lumens: 834 Input Watts: 14W Efficacy: 58 CCT: 3500K Maximum candela of 856 at 65° from vertical. Mounting Height: 4' (1.22 M) BUG Rating: B0-U1-G1

14W LED / 4000K CCT

Catalog #: NT-4-LG4700-40 Report #: 830336_40 Delivered Lumens: 804 Input Watts: 14W Efficacy: 56 CCT: 4000K Maximum candela of 1019 at 65° from vertical. Mounting Height: 4' (1.22 M) BUG Rating: B0-U1-G1

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Discera 4 LED

Photometry

14W LED / 5000K CCT

Catalog #: NT-4-LG4700-50 Report #: 830336_50 Delivered Lumens: 935 Input Watts: 14W Efficacy: 65 CCT: 5000K Maximum candela of 1186 at 65° from vertical. Mounting Height: 4' (1.22 M) BUG Rating: B0-U1-G1

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Conversion Chart Values based on 3' (.9) mounting height								
Mounting Height	Multiply							
2.0' (.6 m)	1.22							
2.5' (.8 m)	1.09							
3.0' (.9 m)	1.00							
3.5' (1.1 m)	0.92							
4.0' (1.2 m)	0.87							

IES TM-21-11 Report Results

Based on an ambient temperature of 25°C / 77° F

Reported L70 (6k) (hours) > 36,000

Calculated L70 (6k) (hours) > 601,00

25,000h lumen maintenance predicted to be 98.75%

Model# Watts Scale Factor from BASE Delivered NI Toolbox Scale Lumens/Watt Light Engine CCT Multip	olier
NT-X-LG4500-30-120 10.42 1.0000 405 1.0000 38.9 1.000	
3000K CCT =	1.000
NT-X-LG4700-30-120 14.39 1.0000 676 1.0000 47.0 1.669	
NT-X-LG4500-35-120 10.42 1.2345 500 1.2345 48.0 1.000	
3500K CCT =	1.235
NT-X-LG4700-35-120 14.39 1.2345 835 1.2345 58.0 1.669	
NT-X-LG4500-40-120 10.42 1.1901 482 1.1901 46.3 1.000	
4000K CCT =	1.190
NT-X-LG4700-40-120 14.39 1.1901 805 1.1901 55.9 1.669	
NT-X-LG4500-50-120 10.42 1.3847 561 1.3847 53.8 1.000	
5000K CCT =	1.385
NT-X-LG4700-50-120 14.39 1.3847 936 1.3847 65.1 1.669	

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