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Architectural Review Board Staff Report

- Project Type: Site Development Section Plan
- Meeting Date: March 12, 2020
- From: Annisa Kumerow, Planner ₭
- Location: North side of Chesterfield Airport Road and east of Long Road
- Description:TSG Chesterfield Airport Road, Lot 1 (Jaguar Land Rover):
Development Section Plan, Landscape Plan, Lighting Plan, Architectural
Elevations and Architect's Statement of Design for a 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 of aluminum composite panels, aluminum building panels, and butt-glazed glass.

REQUEST FOR NO ACTION 02-13-2020

On Thursday, February 13, 2020 the TSG Chesterfield Airport Road, Lot 1 (Jaguar



Figure 1: Color Site Plan

Land Rover) SDSP project was reviewed by the Architectural Review Board. 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 bring the project back to the ARB at a future meeting.

This report will focus on the current submittal and provide analysis on how the current submittal relates to the City of Chesterfield Comprehensive Plan policies and City of Chesterfield Unified Development Code Requirements.

STAFF ANALYSIS

General Requirements for Site Design:

The subject site is located south of Interstate 64. The proposed building is oriented parallel to the adjacent roadway. As such, the building will be visible to motorists traveling along the interstate and Arnage Boulevard.

A. Site Relationships

The Unified Development Code outlines specific desirable and undesirable practices within site relationships. The provision of safe pedestrian movement between elements is a desirable practice. In response, the development proposes a sidewalk along the Arnage Road extension as well as an internal sidewalk leading into the site.

B. 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.

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 each element in italics.

Commercial and Industrial Architecture:

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

Topography, Retaining Walls, and Parking

The site is generally flat. The proposed development does not require the use of any retaining walls.

The number of required parking 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 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.



General Requirements for Building Design:

Figure 2: Color Site Plan with Parking denoted

This request is to allow for development of a 26' car dealership. The building is approximately 31,000 gross square feet. The total site area for Lot 1 is 31, 474 square feet, producing a Floor to Area ratio of (.10). Below are all four elevations that the applicant has provided in the updated submittal.



Figure 3: North (Most Visible)



Figure 4: South (Most Visible)



Figure 6: West (Highly Visible)

A. Scale

The building size and height is consistent with buildings in the area.

B. Design

The Unified Development Code outlines 10 requirements of building design as seen below.

а	Design and coordinate all facades with regard to color, types and numbers of materials,
	architectural form and detailing.
b	Avoid linear repetitive streetscapes.
С	Avoid stylized corporate and/or franchise designs that use the building as advertising.
d	Provide architectural details particularly on facades at street level.
е	Encourage art elements, such as wall sculptures, murals, and artisan-created details, etc.,
	throughout a project
f	Encourage designs that enhance energy efficiency.
g	Encourage the use of environmentally conscious building techniques and materials.
h	Provide entry recesses, plazas, roof overhangs, wall fins, projecting canopies or other similar
	features indicating the building's entry points while providing protection.
i	Paint and trim temporary barriers/walls to complement the permanent construction excluding
	tree protection fencing.
j	Screen rooftop equipment on all visible sides with materials that are an integral part of the
	architecture. Parapet walls or screen walls shall be treated as an integral part of the architecture
	and shall not visually weaken the design of the structure.

Of the 10 general requirements, there are 3 in which staff will cover in further detail (a,d, and j).

a. Design and coordinate all facades with regard to color, types and numbers of materials, architectural form and detailing.

The aluminum composite material panel system and glass are depicted on each of the four facades. It is clear that the north elevation (Figure 3) provides the most interaction between the architectural form and integration of materials. However, it is worthy to note that the north façade also contains a large overhead door for service purposes. The south elevation, which is one of the most visible elevations from the Arnage Road extension, has the least amount of interaction between the architectural form and integration of materials. The south facade (Figure 4) primarily consists of pre-finished corrugated aluminum panels, with several windows. Only a small amount of the aluminum composite panels are carried over from the other facades, and the aluminum composite panels are only visible on the portion of the façade that contains overhead service doors.

d. Provide architectural details particularly on facades at street level.

The north, east, and west façades contain visual interest from the human scale, near the entry doors for guests.

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

The rooftop units are screened with a metal panel system, and do not weaken the design of the structure.

C. Materials and Color

The primary materials are glazed glass, aluminum composite panels, and corrugated aluminum panels. The color of the aluminum components is a silver-gray.

The Unified Development Codes states that it is an undesirable practice is to use highly reflective materials and prefabricated buildings. Colors, materials and detailing should also be compatible with adjacent buildings and properties. On the following page are images of recently approved elevations nearby. These include Autozone, Beyond Self-Storage, the McBride Design Center, and the Courtyard by Marriott.

Adjoining the images is an aerial to be used for location reference. The nearby buildings all have a mixture of materials. One common element that exist on the nearby buildings is the application of a masonry material or appearance of a masonry material.



Figure 7: Surrounding Developments

Furthermore, the Unified Development Code outlines specific building design elements in the aforementioned <u>Site and Building Design Table</u>. These elements are outlined below, followed by how the proposed development addresses each element in italics.

Auto Service Stations

 Use of prefabricated or predesigned buildings is discouraged. If used, adapt the design so as to be compatible with adjacent development. The primary material for the proposed car dealership is pre-finished corrugated aluminum panels.

D. Landscape Design and Screening

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. Approximately 49,800 square feet of canopy was removed from the site in preparation for this development. Consequently, 112 mitigation plantings are proposed with this development. However, the 30' landscape buffer does not contain any plantings and therefore is not adequately landscaped. Per code, landscape buffers require a combination of deciduous trees, evergreen trees, ornamental trees and shrubs and should enhance and preserve native vegetation.

Rooftop mechanical equipment is included on the building. The mechanical equipment will be screened by a 6' tall prefinished 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.



Figure 8: Landscape Plan



Figure 9: Trash Enclosure

E. Signage

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

F. 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. Lights that are not fully shielded flat lensed fixtures that enhance the architecture (decorative) will require approval from Planning Commission.



Figure 8: Parking Light



Figure 9: Entry Bollard

F. Specific Requirements for the Chesterfield Valley

The City of Chesterfield's Comprehensive Plan has 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 facade is the north elevation. The north elevation has the largest variation in articulation and design aspects; however, this articulation does not transfer to all facades equally in terms of materials and attractiveness. As noted earlier, the south elevation (Figure 4) contains the least amount of variation and primarily consists of corrugated aluminum panels. Below is a rendered image that displays the north elevation, visible from I-64/US 40. **Policy 2: Lighting of Buildings Along I-64/US 40** - The facades of



Figure 8: North elevation rendering

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.

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.

DEPARTMENT INPUT

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for TSG CAR, Lot 1 (Jaguar Land Rover).

MOTION

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

- "I move to forward 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 1 (Jaguar Land Rover) as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 1) "I move to forward 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 1 (Jaguar Land Rover) to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



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.

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Robert Flubacker, AIA President



C	Calculation Sur	nmary								
I	Label		CalcType		Units	Avg	Max	Min	Avg/Min	Max/Min
F	FRONT ROW	DISPLAY @ 4'	Illuminance		Fc	6.35	7.8	4.9	1.30	1.59
J	AGUAR LAN	D ROVER WA	Y Illuminance		Fc	0.71	2.1	0.1	7.10	21.00
Р	PARKING LO	Г	Illuminance		Fc	4.48	8.0	0.8	5.60	10.00
R	ROADWAY		Illuminance		Fc	1.17	4.0	0.0	N.A.	N.A.
R	ROADWAY_1		Illuminance		Fc	1.17	4.0	0.0	N.A.	N.A.
S	SPILL LIGHT		Illuminance		Fc	0.04	0.7	0.0	N.A.	N.A.
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	1	F2	SINGLE	1.000	59	59	GLEON-	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-	AF-04-LED-	E1-SL4	
-Æ	14	F6	SINGLE	1.000	113	1582	GLEON-	AF-02-LED-	E1-SL4	
	1	F7	SINGLE	1.000	113	113	GLEON-	AF-02-LED-	E1-SLR	
			D L GH D L GH	0.010	225	1350	GLEON	AF_04_I FD_	F1_5WO	
	3	R1	BACK-BACK	0.912	223	1550		AI - 0 + -LLD -	$-L_1 - J \neq Q$	

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±	





REVISIONS	BY
12/31/19	RMM
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2/10/2020	RWM
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2/18/2020	RWM
2/21/2020	RWM
2/24/2020	RWM

SENERAL:	PLANT SCHEDULE - B/	ASE PLAN											
	TREES QT ARM 4	TY COMMON / BOTANICAL NAME Armstrong Red Maple / Acer rubrum 'Armstrong'	SIZE 2.5"Cal	D Slow Moder	rate Fast < (6" 6 - 18'	" 8 - 36" >	3' < 18" 3 - 6'	6 - 10' 10 - 15' > 15'	< 15' 15 - 25'	25 - 40'	40 - 65' >	65'
All natural vegetation shall be maintained where it does not	* BC 8 * DNM 6	Bald Cypress / Taxodium distichum Deborah Norway Maple / Acer platanoides 'Deborah'	2.5"Cal 2.5"Cal	D Image: D D Image: D									
interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall	GL 6 ¥ HRB 4	Greenspire Littleleaf Linden / Tilia cordata 'Greenspire' Heritaae River Birch / Betula niara 'Heritaae Improved'	2.5"Cal.										
at all times protect all materials and work against injury to public. The landscape contractor shall be responsible for any coordination		Red Oak / Quercus rubra	2.5"Cal								+		
and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of	* AM 16	'Flame' Amur Maple / Acer ginnala 'Flame'	2.5 Cal.								<u> </u>		
Work to be aone. Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or	0GRM 2 ★ SHL 10	'October Glory' Maple / Acer rubrum 'October Glory' 'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal 2.5"Cal.										
shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of	EVERGREEN TREES QT CBS 16	TY COMMON / BOTANICAL NAME Colorado Blue Spruce / Picea pungens 'Glauca'	SIZE 6'-7'	E Slow Moder	rate Fast < (6" 6 - 18'	" 8 - 36" >	3' < 18" 3 - 6'	6 - 10' 10 - 15' > 15'	< 15' 15 - 25'	25 - 40'	40 - 65' >	
the above (Call utility location services in municipality). Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be	EMARB 9 NS 2(Emerald Arborvitae / Thuja occidentalis 'Emerald' D Norway Spruce / Picea abies	6'-7' 6'-7'	E •									
cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or	FLOWERING TREES		SIZE	Slow Moder	rate Fast K	6" 6 - 18	" 8 - 36" >	3' < 18" 3 - 6'	6 - 10' 10 - 15' > 15'	< 15' 15 - 25'	 	40 - 65'	
shrubs planted within the area. It shall be the landscape contractor's responsibility to:		 2 Ivory Silk Japanese Tree Lilac / Syringa reticulata 'Ivory Silk' Neupont Elementing Rum / Reuse conscience 'Neupont' 	2.5"Cal.	0									
 A.) Verify all existing and proposed features shown on the drawings prior to commencement of work. B.) Report all discrepancies found with regard to existing 	* RB 5	Redbud / Cercis canadensis	2.5 Cal.	0							+	++	
conditions or proposed design to the landscape architect immediately for a decision.	* SMAG 19	Saucer Magnolia / Magnolia X soulangiana	2.5 Cal.									++	
C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.		Thornless Cockspur Hawthorn / Crataegus crusgalli var. inermis	2.5"Cal.										
Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to	BJUN 10	TY COMMON / BOTANICAL NAME Buffalo Juniper / Juniperus sabina 'Buffalo'	SIZE 5 gal										
verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will	CAJ 35 CN 3 ⁻	 Compact Andorra Juniper / Juniperus horizontalis 'Plumosa Compacta' Coppertina Ninebark / Physocarpus opulifolius 'Coppertina' 	5 gal 5 gal										
Provide single-stem trees unless otherwise noted in plant schedule. All plant material shall comply with the recommendations and possible test	GGEM 4c GVB 2 ⁱ	 Green Gem Boxwood / Buxus x 'Green Gem' Green Velvet Boxwood / Buxus 'Green Velvet' 	8"-24" 8"-24"										
of ANSI Z60.1 "American Standards for Nursery Stock". It shall be the contractor's responsibility to provide for inspection of	GLS 4(D Gro-Low Fragrant Sumac / Rhus aromatica 'Gro-Low' Limeliaht Hudranaea / Hudranaea paniculata 'Limeliaht' TM	5 gal 5 aal										
the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, durina or after	LLH 12	Little Lime Hydrangea / Hydrangea paniculata 'Little Lime' TM	5 gal	_									
installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.	SBNE 7	Sonic Bloom Weigela / Weigela florida 'Sonic Bloom'	5 gal										
All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning	ANNUALS/PERENNIALS Q.	TY COMMON / BOTANICAL NAME	SIZE										
work. This will be a unit price contract; quotes shall be valid for 12 months. Should auger equipment be utilized in excavating any plant pits, vertical	VL 42	2 Variegated Liriope / Liriope muscari 'Variegata'	gal										
sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.	FORBS QT CI 95	TY COMMON / BOTANICAL NAME 59 Copper Iris / Iris fulva 'Louisiana'	SIZE 2 Qt. @ 18" OC	-									
All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the	OBS 25 ROSEM 31	 Ozark Blue Star / Amsonia illustris Rose Mallow / Hibiscus laevis 	2 Qt @ 30" OC Gal @ 30" OC							. N .	X V.V.	,	
landscape contractor to commence landscape installation. Keep all plant material (except turf) a minimum of 36" clear of fire hydrants.	SMM 74	18 Swamp Milkweed / Asclepias incarnata	2 Qt. @ 24" OC	_							XXX		
Landscape contractor shall kill \$ remove all existing weeds within the project site. All tags, nursery stakes, labels, etc. shall be removed by the landscape	GRASSES QT	TY COMMON / BOTANICAL NAME Dwarf Fountain Grass / Pennisetum alopecuroides 'Hameln'	SIZE	_									
contractor at completion of all landscape installation. Landscape contractor shall be in compliance with all federal, state and local													
laws / regulations relating to insect infestation and/or plant diseases. All substitutions of plant material shall be submitted to landscape architect for		35 Orange Stonecrop / Sedum kamtschaticum	2.25" Pot	_							VAR		
approval. JNING:	NATIVE GRASSES Q.	TY COMMON / BOTANICAL NAME	SIZE										
Lightly prune trees at time of planting. Prune only the crossover limbs, interminated leaders and/or any broken branches. Some interior twice		10 Brown Fox Sedge / Carex vulpinoidea	Plug at 18" OC										
and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.		14 Great Green Bulrush / Scirpus atrovirens	Plug at 18" OC							V			
All pruning shall comply with ANSI A300 standards.	<i>ع</i> ۲	13 Morning Star Sedge / Carex grayi	Plug at 18" OC	_							, \ \ / / / / / / / / / / / / / / / / /		OIL SAUCER: USE PREPARED TOP
The landscape contractor shall submit certificates of insurance for		26 Palm Sedge / Carex muskingumensis	Plug at 18" OC	_								·	JUT ROPES @ TOP OF ROOT BALL OF BURLAP. REMOVE ANY NON-BI
Workman's compensation and general liability.													ATERIAL
All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free	* INDICATES MIT	FIGATION TREES (37 Small, 38 Medium and 37 !	Large)									_ <u>}</u> ₽ [;] ⊒ <u> </u>	REPARED ADMIXTURE BACKFILL REPARED SUBGRADE PEDESTAL
of all foreign materials, including weeds, mold, deleterious materials, etc. No plastic sheeting or filter fabric shall be placed beneath shredded		0-Ornamentai L-Lvergreen								2X BALL	. DIAMETER MIN.	+	
bark mulch beds. Mirafi fabric shall be used beneath all gravel mulch beds. Lap fabric 6" over adjacent coverages.										MULTI	-STEM	TREE	PLANTING IN C
NTENANCE.										N.T.J.			/
INTENANCE: Landscape Contractor shall provide a separate proposal to maintain												2020-0	1-28 15:58
all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.	PLANT SCHEDULE - S7	TREET TREES								1			
provide such services and that such services be provided in a timely manner	ALE 13	TY COMMON / BOTANICAL NAME Athena Lacebark Elm / Ulmus parvifolia 'Emer I'	2.5"Cal	D Slow Moder	rate Fast < (6" 6 - 18'	" 8 - 36" >	3' < 18" 3 - 6'	6 - 10' 10 - 15' > 15'	< 15' 15 - 25'		40 - 65' >	
Watering of seeded or sodded lawns shall begin immediately and shall continue to be provided continuously for the following 72 hours. Regardless.	EH 5 GVZ 9	European Hornbeam / Carpinus betulus Green Vase Zelkova / Zelkova serrata 'Green Vase'	2.5"Cal 2.5"Cal	D (
the landscape contractor shall be resposible for all landscape maintenance until project turnover.	RO 4 SVRM 8	Red Oak / Quercus rubra Sun Valley Red Maple / Acer rubrum 'Sun Valley'	2.5"Cal 2.5"Cal										
HT TRIANGLES:	SWO I	Swamp White Oak / Quercus bicolor	2.5"Cal.	D (+		
No landscape material or other obstructions shall be placed or be maintained within the sight distance area so as not to impede the vision	SHL 2	'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal.	D D									
between a height of thirty inches (30") and ten feet (10')' above the adjacent street or paving surfaces.							-SET SHRUB POO	T BALL I" HIGHER					
) 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		- first first				at The	THAN ADJACEN	T FINISH GRADE HES MULCH					
curb lines a distance of 35' and connecting the points so established to form the sight trianale area.	2" MULCH INGTALLED	City John Society			E Company							L WY	× V×1
PSOIL:	REMOVE SPENT EL OWERS PRIOR	CR PROPOSED GRADE				12"	IF SH	RUB IS B & B, THEN VE BURLAP & ROPE TOP 1/3 OF BALL				HX XX	Y KK
Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part	TO PLANTING PREPARE BED AS PER PLANTING DETAILS			-3 INCHES MULCH			BACK	FILL MIX				THE W	Y LL
Canadian sphagnum peat moss as per planting details. Roto-till topsoil mix to a depth of 6" minimum and grade smooth.	PREPARE BED AS PER PLANTING DETAILS		and the states /	(SEE LANDSCAPE NO FOR TYPE OF MULC	DTES			TURBED SUBSOIL			/		A Charles and the second secon
soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content		PROVIDE A FLAT SURFACE		- IF SHRUB IS B & B, " - REMOVE RUP AD *	THEN ROPE	BROKEN / CR	RUMBLING ROOT BA	LS WILL BE REJECTED.			۲	A A A A	A CHARLE
Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than 1"). litter or any other extraneous or				FROM TOP 1/3 OF B	SHRUF	B PLA	NTING				ING GROUND	(HK	
toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation.				-UNDIGTIBED CUDC	N.T.S.		ARK NORTH CIDE	With a					TT
Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.		ANNUAL PLANTING SHRUR F	PLANTING	ON SI OPF	• 1 L	OF TREE IN NI TO DIGGING A		N MARK		FLARE VISIBLE	BOVE SOIL I		
Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and	<u> _ N N / _ /</u> N.T.S.		SPADE EDGE OF		_	TO NORTH WH PLANTING ON	IEN -SITE	F WWW		CUT BACK SL TO PROVIDE	OPE 0		T
	i	/	· · · · · · · · · · · · · · · · · · ·					N VEL		A FLAT SURF FOR PLANTING	ACE	127	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
before application of shredded bark mulch. Install siltation controls prior to commencement of any grading							LAVE	T THE FEELE	PLAN		NΝ		
before application of shredded bark mulch. Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established.		PLANT PINE VARIETIES TOP OF BALL AT 4" ABOVE SURROUNDING GRADES.								LEADER F	אין ר		
before application of shredded bark mulch. Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established. RANTY:				77777 3" SHREDD	ED HARDWOOD CH		77		DOUBLE STRAND 12 GA	- NGE WIRE			
before application of shredded bark mulch. Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established. RANTY: All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.							11	👞 🛛		BBER HASE		II	► F
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before application of shredded bark mulch. Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established. RANTY: All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price. 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.		CROWN OF ROOT BALL SHALL BEAR SAME RELATION (OR SLIGHTLY ABOVE) TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE 		PREPARED SEE SHRUB	PLANTING BED. PLANTING FOR DETAIL	FLARE OF TR VISIBLE ABO` LS.	RUNK TO BE VE SOIL LINE		COVERED W/2-PLY RUE PAINTED FLUORESCENT WHITE FLAGGING (TYP.) TREE WRAP	BBER HOSE F ORANGE)	No	OTE: USE SHRE	DDED BARK MULCH ONLY
before application of shredded bark mulch. Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established. RANTY: All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price. 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. Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with the warranty.		CROWN OF ROOT BALL SHALL BEAR SAME RELATION (OR SLIGHTLY ABOVE) TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE 3" MINIMUM BARK MULCH CREATE SOIL SAUCER w/ TOPSOIL-6" MINIMUM FOLD DOWN BURLAP @ TOP OF ROOT BALL & REMOVE TOP 1/3 OF BURLAP. REMOVE ANY NON-BIODEGRADABLE MATERIAL			PLANTING BED. PLANTING FOR DETAIL IB-SOIL	FLARE OF TR VISIBLE ABOY LS.	VE SOIL LINE		COVERED W/2-PLY RUE PAINTED FLUORESCENT WHITE FLAGGING (TYP.) TREE WRAP 3 INCHES SHREDDED B 4 INCH DEEP SAUCER	BBER HOSE FORANGE) BARK MULCH	n TRE	IOTE: USE SHRE EE PLA	DDED BARK MULCH ONLY
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REVISIONS	BY
12/31/19	RWM
1/28/2020	RWM
2/10/2020	RWM
2/18/2020	RWM
2/21/2020	RWM
2/24/2020	RWM

NORTH ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

SOUTH ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

OVERHEAD DOORS w/ VISION GLASS, TYP.

EAST ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

WEST ELEVATION

JAGUAR/LAND ROVER CHESTERFIELD

TRASH ENCLOSURE FRONT ELEVATION

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

TRASH ENCLOSURE SIDE ELEVATION

SCALE: ¹/₄" = 1'-0"

ROOFTOP HVAC SCREENING SECTION

SCALE: ³/₄" = 1'-0"

JAGUAR/LAND ROVER CHESTERFIELD

PRE-FINISHED METAL COPING

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

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

Catalog #	Туре
Project	
Comments	 Date
Prepared by	

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

Five-year warranty.

DRILLING PATTERN

[51mm]

1-3/4"

[44mm]

TYPE "N"

G

C-

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/c/U. 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	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (Ibs.)	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 calculated with optional arm length.

3/4" [19mm] Diameter Hole

7/8" [22mm]

(2) 9/16" [14mm]

Diameter Holes

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 {lbs.}	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	
5-6 ³	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 1-6 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

LUMEN MULTIPLIER

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

Eaton 1121 Highway 74 South Peachtree City, GA 30263 P: 770-496-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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 Cur	ent @ 120V (A)	0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Cur	rent @ 208V (A)	0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Cur	rent @ 240V (A)	0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Cur	rent @ 277V (A)	0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Cur	rent @ 347V (A)	0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Cur	rent @ 480V (A)	0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
-	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
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-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
T2R	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-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-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
T2	3000K Lumene	6,613	12 924	19 284	25,480	31.570	37 780	44,679	50,624	56 471	62 524
1.0	BLIG Bating	B1-U0-G2	R2.110.G2	B3-U0-G3	B3-110-G4	B3-110-G4	B3-110-G5	84-U0-G5	B4-110-G5	84-U0-G5	84.110.G5
	4000K/5000K Lumens	7150	13 973	20.850	27.549	34 134	40.846	49 307	54 734	61.056	67.598
T2D	2000K Lumene	6 761	13,373	10 713	26.046	39,134	29,610	40,307	51,750	57 726	62 011
ian	BLIG Ration	B1-U0-G2	B2-110-G2	B2-110-G3	83-110-G4	82,110,GA	B3-110-G5	40,075 B3-110-G5	B3-110-G5	B4-110-G5	B4-110-G5
	4000K/E000K Lumono	7.026	12 740	20.515	27.107	22 500	40 101	47 520	E2 0E4	60.074	66 512
TAET	2000K Lumoos	6,652	12 000	10 207	27,107	21 754	27 000	47,530	50,004	56,074	62.005
1461	BUC Rating	0,002	12,999 P2 U0 C2	19,397 P2 U0 C4	20,029	31,754 P3 UA CE	37,999 P3 U0 CE	44,930 P2 U0 CE	50,917 B2 U0 CE	50,797	02,000 BA UO CE
	A000K/E000K Lumens	B1-00-G2	12.571	20.240	26.756	22.152	20.671	63-00-G5	53.160	E0 200	B4-00-G5
Taw	4000K/S000K Lumens	0,945	13,571	20,249	20,750	33,152	39,071	40,917	53,160	59,298	60,000
14W	3000K Lumens	0,500	12,831	19,146	25,297	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	B4-00-G5	B4-00-G5	B4-00-G5	B4-00-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-U0-G3	B3-00-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	84-00-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	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
	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	B4-U0-G5
	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
	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
	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	B3-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	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	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	B3-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	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-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)

Number o	f Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal P	ower (Watts)	59	113	166	225	279	333	391	445	501	558
Input Curr	rent @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Curr	rent @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Curr	rent @ 240V (A)	0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Curr	rent @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0,14	0.24	0,37	0,48	0.61	0,75	0,91	0,99	1,12	1,28
Optics											
	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
T2	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
T2R	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	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
	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
тз	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
T3R	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
T4FT	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
T4W	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	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
	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
SL2	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	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
	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
SL3	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	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
	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
SL4	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
<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
	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
5NQ	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	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
	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
5MQ	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
5WQ	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
SLL/SLR	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
L	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
	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
<u> </u>	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
	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-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 F	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	rent @ 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
	BUG Rating	B1-U0-G1	B2-LI0-G2	B2-LI0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	R4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	5.366	10 486	15 647	20.675	25.616	30.654	36 252	41.076	45.819	50 730
T2B	3000K Lumens	5.074	9.914	14 794	19 548	24.218	28 982	34 276	38,835	43 320	47 964
	BLIG Bating	B1-U0-G1	B1-110-62	B2-110-G2	B2-110-G2	B3-110-G3	B3-110-G3	B3-U0-G4	B3-110-G4	B3-110-G4	B3-110-G5
	4000K/E000K Lumons	E 152	10.069	15.022	10.040	24 692	29.420	24.005	20.426	42.000	49 705
72	2000K Lumans	4 972	9,619	14 202	19,049	29,033	23,430	22 007	27 205	43,330	46,705
13	BLIC Rating	4,072 B1.U0.C1	3,513 R0.110.C0	14,203 R2.110.C2	10,700 Ro. 110, Co.	23,251 B2.110.C4	27,025 Ro.110.C4	32,307 Ro.Lio.C4	37,205 R2.110.CE	41,591	40,040
	BOG Rating	B1-00-G1	82-00-G2	62-00-G2	B3-00-G3	83-00-G4	83-00-64	B3-00-G4	B3-00-G5	B4-00-G5	40 300
	4000K/5000K Lumens	5,200	10,292	15,350	20,290	25,140	30,084	35,578	40,312	44,968	49,786
138	3000K Lumens	4,979	9,731	14,518	19,184	23,769	28,443	33,638	38,114	42,516	47,071
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	5,182	10,126	15,109	19,964	24,736	29,600	35,006	39,664	44,245	48,987
T4FT	3000K Lumens	4,899	9,574	14,285	18,876	23,387	27,986	33,097	37,501	41,832	46,315
L	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	5,115	9,995	14,914	19,706	24,417	29,218	34,554	39,152	43,674	48,354
T4W	3000K Lumens	4,836	9,450	14,100	18,631	23,085	27,624	32,670	37,017	41,292	45,717
ļ	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	5,046	9,860	14,713	19,441	24,087	28,825	34,089	38,625	43,085	47,702
SL2	3000K Lumens	4,771	9,322	13,911	18,381	22,774	27,253	32,229	36,518	40,735	45,101
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	4000K/5000K Lumens	5,152	10,067	15,020	19,846	24,591	29,426	34,800	39,431	43,984	48,698
SL3	3000K Lumens	4,871	9,518	14,200	18,764	23,249	27,822	32,902	37,280	41,585	46,042
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	4,894	9,565	14,271	18,857	23,364	27,959	33,065	37,465	41,792	46,270
SL4	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-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
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	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
	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	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
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	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
	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 F	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	rent @ 208V (A)	0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Curr	rent @ 240V (A)	0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Curr	rent @ 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	rent @ 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
Т2	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	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
-	4000K/5000K Lumens	4,376	8,552	12,760	16,860	20,890	24,998	29,563	33,497	37,365	41,369
T2R	3000K Lumens	4,138	8,085	12,064	15,941	19,751	23,635	27,951	31,670	35,328	39,113
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	4,201	8,210	12,251	16,187	20,055	23,999	28,383	32,159	35,873	39,718
тз	3000K Lumens	3,973	7,763	11,583	15,304	18,961	22,691	26,835	30,406	33,916	37,552
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	4,294	8,393	12,523	16,546	20,501	24,532	29,014	32,875	36,671	40,600
T3R	3000K Lumens	4,060	7,936	11,840	15,644	19,383	23,195	27,432	31,082	34,671	38,386
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	4,226	8,257	12,321	16,280	20,172	24,139	28,547	32,346	36,082	39,948
T4FT	3000K Lumens	3,996	7,807	11,649	15,392	19,071	22,822	26,990	30,582	34,114	37,770
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	4,171	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	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-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
	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	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	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
	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
	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	B2-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.

Eaton 1121 Highway 74 South Peachtree City, GA 30269

P: 770-496-4800

eaton.com/lighting

Specifications and dimensions subject to change without notice Sample Number: GLEON-AE-04-LED-E1-T3-GM-OM

oumpie number.	decontra of eeb i							
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* 06=6 07=7* 06=8* 09=9* 10=10*	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ¹⁸	T2=Type II T2=Type II Roadway T3=Type II Roadway T3F=Type II Roadway T4FT=Type IV Forward Throw T4FT=Type IV Wide SNQ=Type V Narrow SMQ=Type V Square Medium SWQ=Type V Square Wide SL2=Type II wSpill Control SL3=Type II wSpill Control SL4=Type IV wSpill Control SL4=Sype IV Spill Light Eliminator Right RW=Rectangular Wide Type I AR=Automotive Frontline		AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QME_Cuick Mount Arm (Standard Length) ¹¹ QMEA=Cuick Mount Arm (Extended Length) ¹²
Options (Add a	s Suffix)		Accessorie	es (Order Separately)				
Options (Add as Suffix) 7027=70 CRI 2700K ¹³ 7030=70 CRI 3000K ¹³ 9030=80 CRI 3000K ¹³ 7060=70 CRI 6000K ¹³ 7060=70 CRI 6000K ¹³ 7060=70 CRI 6000K ¹³ 900=Drive Current Set to Nominal 800mA ¹⁹ 1200=Drive Current Set to Nominal 1200mA ^{14, 10} MH245=After Hours Dim, 5 Hours ²² AHD245=After Hours Dim, 6 Hours ²² AHD245=After Hours Dim, 8 Hours ²² HA=50°C High Ambient ²³				,240 or 277V. Must Sj aptaole ²¹ Dperation, Maximum Operation, 9' - 20' Moo F Operation, 9' - Imming Operation, Ma mming Operation, Ma mming Operation, Ma mming Operation, Ma mming Operation, Ma resort, 9' - 20' Mounting Heigl 21' - 40' Mounting Heigl 21' - 40' Mounting Heigl sor, Narrow Lens for 8' sor, Narrow Lens for 8' sor, Narrow Lens for 8' sor, 7' – 15' Mounti smsor, 15' – 40' Mounti	secify Voltage) ²³ 8' Mounting Height ²⁴ Junting Height ²⁴ Mounting Height ²⁴ 20' Mounting Height ²⁴ 20' Mounting Height ²⁴ 20' Mounting Height ²⁴ 4 Height ^{24,25} 16' 40' Mounting Height ²⁸ 16' - 40' Mounting Height ²⁸ 16' - 40' Mounting Height ²⁸ 16' Height ^{13,33,34}	OA/RA1016= OA/RA1023= OA/RA1013= OA/RA1013= OA/RA1013= OA/RA1014= MA1252=10k MA1036-XX= MA1037-XX= MA1037-XX= MA1037-XX= MA1197-XX=	NEMA Photocontrol Multi-Ta NEMA Photocontrol - 480V NEMA Photocontrol - 480V Photocontrol Shorting Cap 120V Photocontrol V Surge Module Replaceme Single Tenon Adapter for 2-3 2/2 180°Tenon Adapter for 2-3 3/2 100°Tenon Adapter for 2-3 3/2 100°Tenon Adapter for 3-3 3/2 100°Tenon Adapter for 3-1 3/2 100°Tenon Adapter for 3-1 3/2 100°Tenon Adapter for 3-1 3/2 100°Tenon Adapter for 3-1 1/2 100°Tenon 4/2 100°Tenon for 3/2	p - 105-285V nt 8° O.D.Tenon 38° O.D.Tenon 38° O.D.Tenon 18° O.D.Tenon 18° O.D.Tenon 18° O.D.Tenon 18° O.D.Tenon 19° O.D.Tenon 12° O.D.Tenon 13° O.D.Tenon 14°

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 400K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or comer grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 13 Extended lead times sensor is 16 lise for 27000K, 3000K, 5000K and 6000K when performing layouts. 14 Available in 800mA only. 15 1 Amp standard. Use decidated IES files for 600mA, 800mA and 1200mA when performing layouts. 16 Not available with HA option. 17 2 Lis 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-06 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table, 18 Not available with LumaWatt FPo wiseless sensors. 19 Cannot the uses 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 pho

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:	<u>NT</u> -								
		P	ole Order	Code:	 Series -		 Finish	Options	
	Series	NT Notch Bollard	LED		Jenes	Height	rinisn	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	ım Color	
	Voltage	120* 120V	208 208V	240* 240V	277* 277V	347 ¹ 347∨	480 ¹ 480V		'Equipped with internal stepdown transformer *Specify for HL option
	Options	DM Dimming (0-10V) REC3 USB & Duplex Receptacle	HLXX ^{2,3} Hi-Lo Switching REC4 USB & Duplex	PC Photocell (consult factory)	REC GFCI Receptacle w/ weather- proof cover	REC2 GFCI Receptacle w padlockable in-use cover	d		² 120V, 240V & 277 only. ³ DM or HL only. Cannot be combined
		w/ weather- proof cover	Receptacle w/weather- proof padlockable in-use						

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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.

0-10V Dimming Option (DM) Wiring LG4700 at 120-277V.

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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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