



# DOUGLAS STATION APARTMENTS

## LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

**smith&boucher**  
ENGINEERS  
2501 west valley parkway, suite 200  
Lee's Summit, MO 64063  
phone 913.345.9277 fax 913.345.9577  
project number 2117700

COPYRIGHT © 2021  
1ST ISSUE  
28 JUN 2021

ISSUE/REVISIONS  
07.02.21

SHEET NO. **ME2.2P**  
JOB NO. **E21-305**

PROJECT NAME: Douglas Station Apartments - Lee's Summit, MO  
AUTOCAD FILE LOCATION: X:\21\117700\Drawings\01-2117700\_ME2.2P.dwg  
LAST MODIFICATION: Thursday, August 5, 2021 8:05:05 AM  
DRAWN BY: Kuzmingo  
CHECKED BY: Muzingo  
DATE: Thursday, August 5, 2021 8:15:07 AM

D  
C  
B  
A

### McGraw-Edison

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

**CONSTRUCTION**  
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patented 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 (L+), 2750K 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 Cooper Lighting Solutions 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).

**FINISH**  
Housing finished in super durable, DLP 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.

**CEILING MOUNT ARM MOUNT**  
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mount. Max Temperature 40°C. 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 1.12" to 4.75". 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.

**STANDARD WALL MOUNT**  
1-10 Light Squares Solid State LED AREA/SITE LUMINAIRE

**GLEON GALLEON LED**

**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)

**QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)**

**QUICK MOUNT ARM DATA**

Number of Light Squares	1A	Weight with GM Arm (lbs.)	Weight with OMEA Arm (lbs.)	EMA (ft. L)
1-4	16-1/2" (394mm)	35 (16.91 kg.)	38 (17.27 kg.)	
5-6*	21-5/8" (548mm)	48 (20.91 kg.)	49 (22.27 kg.)	1.11
7-8	21-5/8" (548mm)	56 (25.4 kg.)	N/A	

**CERTIFICATION DATA**  
3G Vibration Rated  
DesignLight Consortium™ Qualified™  
Dark Sky Approved (3000K CCT and warmer only)  
IP66 Rated  
IEC 60598  
LMV/LAMB Compliant  
ULULU Wet Location Listed

**ENERGY DATA**  
Electrical LED Driver  
3.0 Power Factor  
<20% Total Harmonic Distortion  
120/277V 50/60Hz  
347V, 480V 60Hz  
40°C Max Temperature  
60°C Max Temperature  
90°C Max Temperature (HA Option)

**COOPER Lighting Solutions**

**GLEON GALLEON LED**

**ARM MOUNTING REQUIREMENTS**

**STANDARD WALL MOUNT**

**MAST ARM MOUNT**

**QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)**

**QUICK MOUNT ARM DATA**

**COOPER Lighting Solutions**

**GLEON GALLEON LED**

**OPTIC ORIENTATION**

**OPTICAL DISTRIBUTIONS**

**LUMEN MAINTENANCE**

**LUMEN MULTIPLIER**

**COOPER Lighting Solutions**

### TYPE "SL3, SL3H, SL4, SL4H, SL5, SL5-2" FULL CUT-OFF NOT TO SCALE

**McGraw-Edison GLEON Galleon Lumen Tables**

**Performance Data**  
4000K, 5000K and 5700K CCT, 70 CRI

Drive Current	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA
Lumens	7267	14,261	21,390	28,500	34,992	41,515	46,996	55,627	62,953
lumens per Watt	123	126	128	124	124	126	126	125	124
BUG Rating	83-U0-02	83-U0-03	83-U0-03	83-U0-04	83-U0-05	83-U0-05	84-U0-05	84-U0-05	84-U0-05

**COOPER Lighting Solutions**

### TYPE "SL3, SL3H, SL4, SL4H, SL5, SL5-2" FULL CUT-OFF NOT TO SCALE

**McGraw-Edison GLEON Galleon Lumen Tables**

**Performance Data**  
4000K, 5000K and 5700K CCT, 70 CRI

Drive Current	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA	1000mA
Lumens	7267	14,261	21,390	28,500	34,992	41,515	46,996	55,627	62,953
lumens per Watt	123	126	128	124	124	126	126	125	124
BUG Rating	83-U0-02	83-U0-03	83-U0-03	83-U0-04	83-U0-05	83-U0-05	84-U0-05	84-U0-05	84-U0-05

**COOPER Lighting Solutions**

**SITE LIGHT FIXTURE SCHEDULE**

TYPE	DESCRIPTION	MOUNTING	SOURCE	VOLTS	MANUFACTURER	V-A
SL3	LED SINGLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE SL3 DISTRIBUTION WITH GLARE REDUCING SHIELD. POLE TO MATCH FIXTURE FINISH, BLACK FINISH. LISTED FOR WET LOCATION. 15'-0" X 0'-4" SQUARE STEEL POLE. MAXIMUM DRIVE CURRENT OF 1050mA.	CONCRETE POLE BASE 15'-0" SQUARE STEEL POLE	LED 7,406 LUMENS 4000K 70 CRI	UNV	MCGRW-EDISON SERIES GALLEON OR APPROVED EQUAL	126
SL3H	LED SINGLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE SL3 DISTRIBUTION WITH HOUSE SIDE SHIELD. POLE TO MATCH FIXTURE FINISH, BLACK FINISH. LISTED FOR WET LOCATION. 15'-0" X 0'-4" SQUARE STEEL POLE. MAXIMUM DRIVE CURRENT OF 1050mA.	CONCRETE POLE BASE 15'-0" SQUARE STEEL POLE	LED 6,326 LUMENS 4000K 70 CRI	UNV	MCGRW-EDISON SERIES GALLEON OR APPROVED EQUAL	126
SL4	LED SINGLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE SL4 DISTRIBUTION WITH GLARE REDUCING SHIELD. POLE TO MATCH FIXTURE FINISH, BLACK FINISH. LISTED FOR WET LOCATION. 15'-0" X 0'-4" SQUARE STEEL POLE. MAXIMUM DRIVE CURRENT OF 1050mA.	CONCRETE POLE BASE 15'-0" SQUARE STEEL POLE	LED 7,073 LUMENS 4000K 70 CRI	UNV	MCGRW-EDISON SERIES GALLEON OR APPROVED EQUAL	119
SL4H	LED SINGLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE SL4 DISTRIBUTION WITH HOUSE SIDE SHIELD. POLE TO MATCH FIXTURE FINISH, BLACK FINISH. LISTED FOR WET LOCATION. 15'-0" X 0'-4" SQUARE STEEL POLE. MAXIMUM DRIVE CURRENT OF 1050mA.	CONCRETE POLE BASE 15'-0" SQUARE STEEL POLE	LED 6,011 LUMENS 4000K 70 CRI	UNV	MCGRW-EDISON SERIES GALLEON OR APPROVED EQUAL	119
SL5	LED SINGLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE 5WQ DISTRIBUTION, FULL CUTOFF. POLE TO MATCH FIXTURE FINISH, BLACK FINISH. LISTED FOR WET LOCATION. 15'-0" X 0'-4" SQUARE STEEL POLE. MAXIMUM DRIVE CURRENT OF 1050mA.	CONCRETE POLE BASE 15'-0" SQUARE STEEL POLE	LED 7,800 LUMENS 4000K 70 CRI	UNV	MCGRW-EDISON SERIES GALLEON OR APPROVED EQUAL	132
SL5-2	LED DOUBLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE 5WQ DISTRIBUTION, FULL CUTOFF. POLE TO MATCH FIXTURE FINISH, BLACK FINISH. LISTED FOR WET LOCATION. 15'-0" X 0'-4" SQUARE STEEL POLE. MAXIMUM DRIVE CURRENT OF 1050mA.	CONCRETE POLE BASE 15'-0" SQUARE STEEL POLE	LED 7,800 LUMENS PER HEAD 4000K 70 CRI	UNV	MCGRW-EDISON SERIES GALLEON OR APPROVED EQUAL	132 PER HEAD

**COOPER Lighting Solutions**

**COOPER Lighting Solutions**

**TYPE "SL3, SL3H, SL4, SL4H, SL5, SL5-2" FULL CUT-OFF NOT TO SCALE**

**COOPER Lighting Solutions**

**COOPER Lighting Solutions**

**TYPE "SL3, SL3H, SL4, SL4H, SL5, SL5-2" FULL CUT-OFF NOT TO SCALE**

**COOPER Lighting Solutions**