

P:\Clients\The Sod Guy\CAD\Development Plan\Lighting Plan.dwg ----- 9/12/2019 9:41 AM

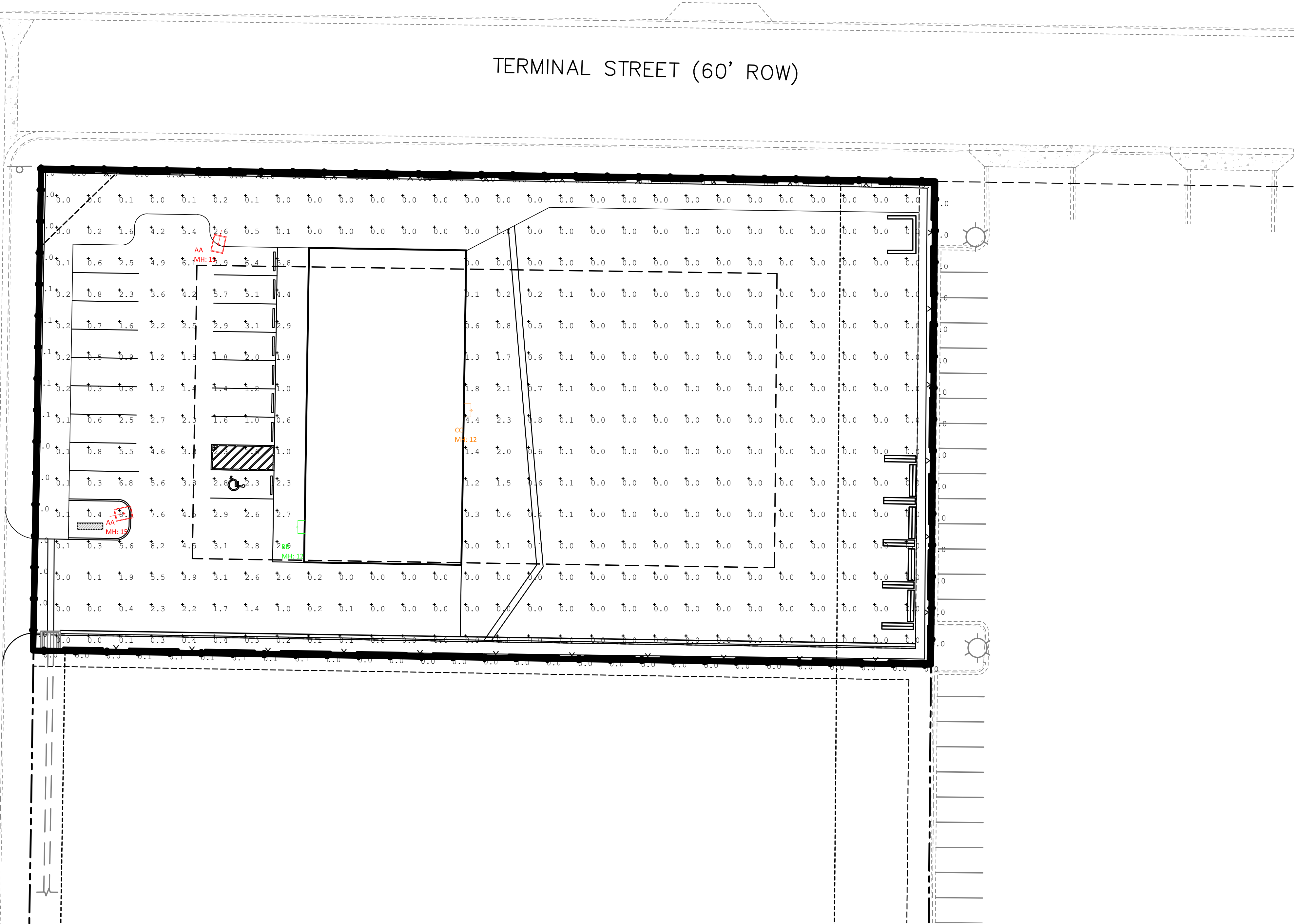
THE SOD GUY - SALES LOT
SITE DEVELOPMENT PLANS
LOT 1, APPALOOSA HIGHWAY 24 SUBDIVISION FILING NO 1A

GENERAL CONSTRUCTION NOTES:

1. ALL LIGHTING SHALL BE SHIELDED OR CONCEALED. SEE SHEET LP-02 FOR LIGHTING DETAILS

AMELIA STREET
(60' ROW)

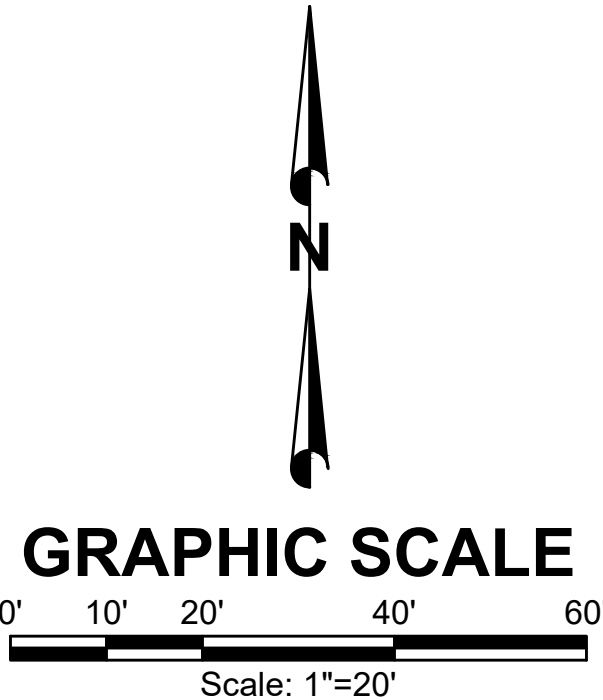
TERMINAL STREET (60' ROW)



Calculation Summary

Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Fc	0.01	0.1	0.0	N.A.	N.A.
Site	Fc	0.77	8.4	0.0	N.A.	N.A.

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	1	BB	SINGLE	N.A.	0.900	ISW-AF-450-LED-E1-SL4
	1	CC	SINGLE	N.A.	0.900	ISW-AF-450-LED-E1-SL3
	2	AA	SINGLE	N.A.	0.900	GLNA-AF-03-LED-E1-SL4-HSS



NO.		REVISIONS	BY	DATE

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PROJECT NO.	
DRAWN	
DESIGNED	
APPROVED	
QA/QC	

OWNER
THE SOD GUY
COLORADO SPRINGS, CO

SALES LOT - SPECIAL USE
LIGHTING PLAN

SHEET NO:
LP-01
DATE:
09/12/19
PAGE NO:
1 OF 2

THE SOD GUY - SALES LOT

SITE DEVELOPMENT PLANS

LOT 1, APPALOOSA HIGHWAY 24 SUBDIVISION FILING NO 1A

DESCRIPTION

The Galleonaire LED luminaire features advanced thermally conductive polymer heatsinks and open frame endcaps for a sleek aesthetic with significant weight reduction. 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 #	GLNA-AF-03-LED-E1-SL4-HSS	Type
Project	THE SOD GUYS LOT - EL PASO COUNTY	AA
Comments	COLORADO SPRINGS	Date
Prepared by	ILLUMINATION SYSTEMS	9/5/19

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Open frame die-cast aluminum end caps provide structural support for the housing and heatsinks. Thermally conductive polymer heatsinks offer significant weight reduction while fully maintaining thermal management of the Light Squares. 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 2700K, 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 Galleonaire LED luminaire is suitable for operation in -40°C to 40°C ambient environments. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA and 800mA 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 dark gray, non-paintable. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty
Five-year warranty.

GLNA GALLEONAIRE

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE

LumenSafe Technology **CLICK HERE**

DIMENSIONS

DIMENSION DATA

Number of Light Squares	*A* Width (mm)	*B* Standard Arm Length (mm)	*B* Optional Arm Length (mm)	Weight with Arm (lbs.)	EPA with Arm † (Sq. Ft.)
1-4	16-1/2" (419mm)	7" (178mm)	10" (254mm)	28 (12.7 kg)	0.72
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	38 (16.3 kg)	0.77
7-8	22-5/8" (578mm)	7" (178mm)	13" (330mm)	43 (19.5 kg)	0.95
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	49 (22.2 kg)	1.13

NOTES: 1. Optional arm length to be based when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"

CERTIFICATION DATA
3G Vibration Rated
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

TD500064EN
June 26, 2019 3:50 PM

LIGHTING DETAIL AA
SCALE: NTS

1
LP-02

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

McGraw-Edison

Catalog #	ISW-AF-450-LED-E1-SL4	Type
Project	THE SOD GUYS LOT - EL PASO COUNTY	BB
Comments	COLORADO SPRINGS	Date
Prepared by	ILLUMINATION SYSTEMS	9/5/19

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V/50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with black oxide coated allen head set screws concealed but accessible from bottom of fixture.

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

Warranty
Five-year warranty.

ISC/ISS/IST/ISW

IMPACT ELITE LED

1 LightSquare Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA
Electronic LED Driver
≥0.9 Power Factor
≤20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
16 lbs. (8 kgs.)

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July 23, 2019 4:13 PM

HOO-K-N-LOCK MOUNTING

DIMENSIONS

DIMENSION DATA

Number of Light Squares	*A* Width (mm)	*B* Standard Arm Length (mm)	*B* Optional Arm Length (mm)	Weight with Arm (lbs.)	EPA with Arm † (Sq. Ft.)
1-4	18" (457mm)	7" (178mm)	10" (254mm)	28 (12.7 kg)	0.72
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	38 (16.3 kg)	0.77
7-8	22-5/8" (578mm)	7" (178mm)	13" (330mm)	43 (19.5 kg)	0.95
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	49 (22.2 kg)	1.13

NOTES: 1. Optional arm length to be based when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"

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3G Vibration Rated
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

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June 26, 2019 3:50 PM

LIGHTING DETAIL BB
SCALE: NTS

1
LP-02

DESCRIPTION

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McGraw-Edison

Catalog #	ISW-AF-450-LED-E1-SL3	Type
Project	THE SOD GUYS LOT - EL PASO COUNTY	CC
Comments	COLORADO SPRINGS, COLORADO	Date
Prepared by	ILLUMINATION SYSTEMS	9/5/19

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V/50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

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Warranty
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ISC/ISS/IST/ISW

IMPACT ELITE LED

1 LightSquare Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA
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LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA
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40°C Ambient Temperature Rating

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HOO-K-N-LOCK MOUNTING

DIMENSIONS

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-40°C Min. Temperature
40°C Max. Temperature

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June 26, 2019 3:50 PM

LIGHTING DETAIL CC
SCALE: NTS

1
LP-02

NO. REVISIONS BY DATE

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PROJECT NO. 04-18-001.2

DRAWN C. BURBA

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APPROVED C. BURBA

QA/QC J. MOORE

OWNER
SEEGER HOMES

SALES OFFICE

SECTIONS AND DETAILS

SHEET NO:
LP-02

DATE:
09/12/19

PAGE NO:
2 OF 2

PCD FILE NO. PPR1831