

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P454977

Luminaire Tested: **GALN-SA6A-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20864 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

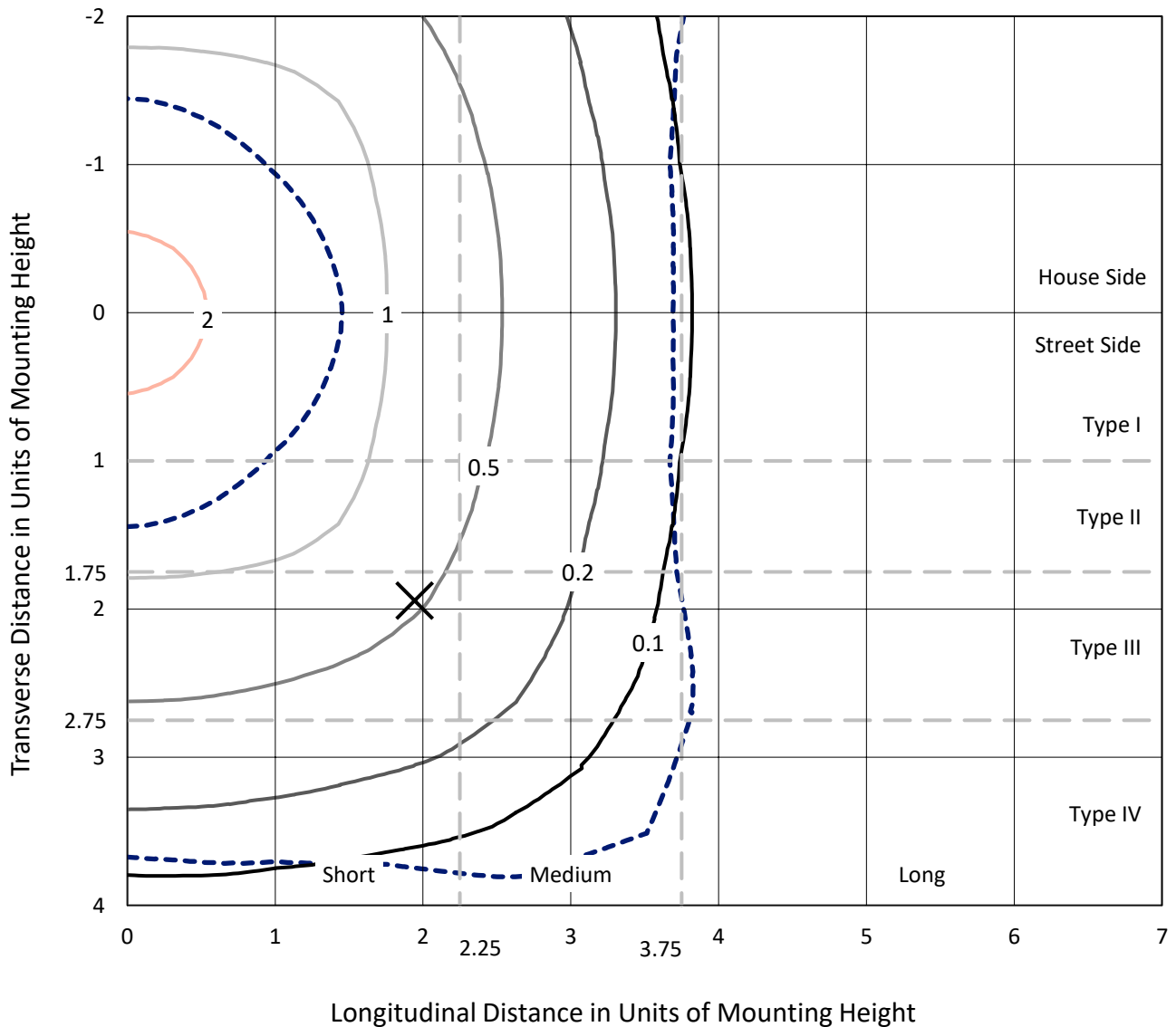
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454977  
 CATALOG NUMBER: GALN-SA6A-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

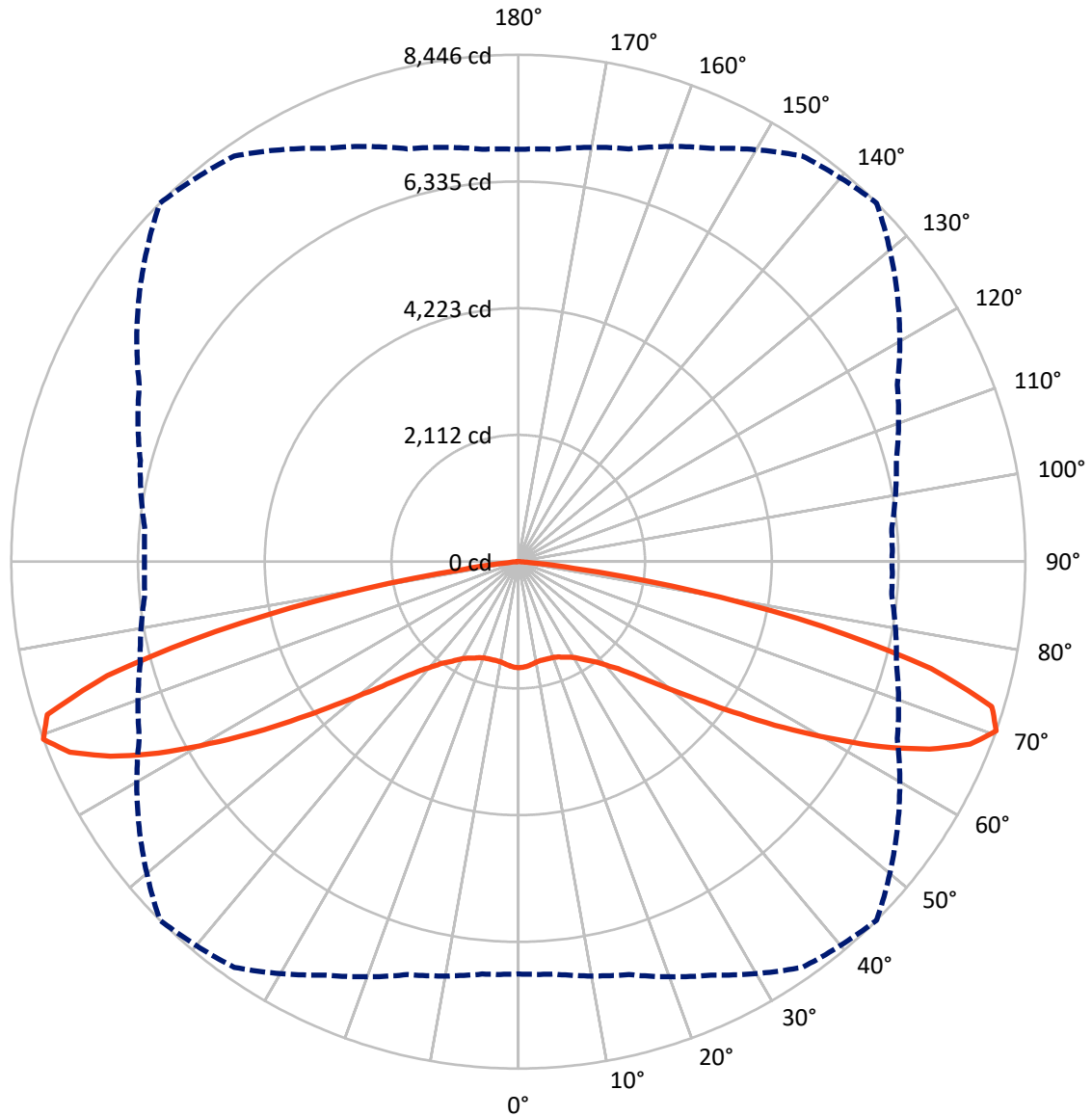
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P454977  
CATALOG NUMBER: GALN-SA6A-827-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P454977

CATALOG NUMBER: GALN-SA6A-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10432.0	0.0	10432.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10432.0	0.0	10432.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20864.0	0.0	20864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	0.8
10°-20°	483.6	2.3
20°-30°	824.0	3.9
30°-40°	1277.1	6.1
40°-50°	2149.6	10.3
50°-60°	3911.0	18.7
60°-70°	6621.3	31.7
70°-80°	5125.1	24.6
80°-90°	307.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20864.0	100.0
0°-180°	20864.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454977

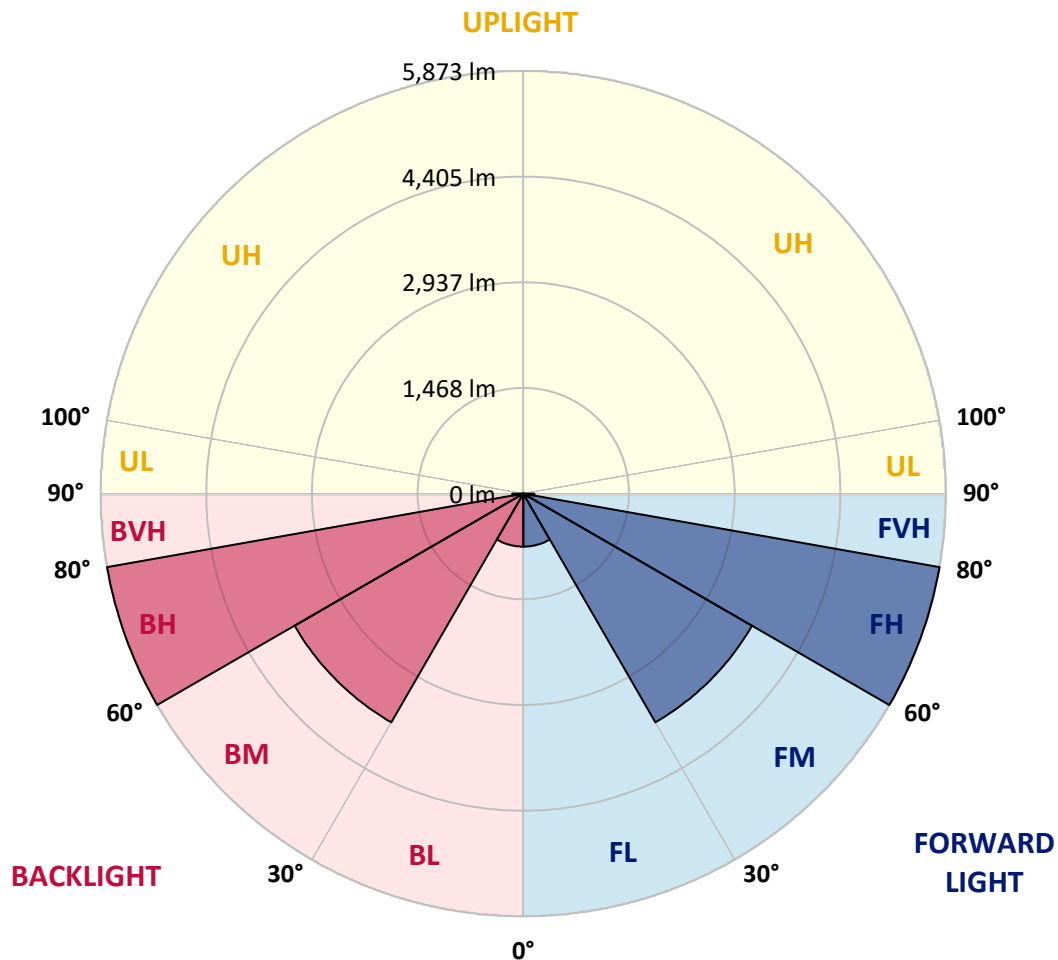
CATALOG NUMBER: GALN-SA6A-827-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.4	3.5			
FM (30°-60°)	3668.9	17.6			
FH (60°-80°)	5873.2	28.1			G3/7500
FVH (80°-90°)	153.6	0.7			G2/225
BL (0°-30°)	736.4	3.5	B2/1000		
BM (30°-60°)	3668.9	17.6	B3/5000		
BH (60°-80°)	5873.2	28.1	B5		G3/7500
BVH (80°-90°)	153.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P454977  
 CATALOG NUMBER: GALN-SA6A-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4	1766.4
2.5°	1762.0	1763.1	1763.1	1760.9	1759.8	1759.8	1758.7	1758.7	1762.0	1763.1	1764.2
5°	1746.6	1746.6	1746.6	1745.5	1743.3	1743.3	1741.0	1741.0	1742.2	1745.5	1743.3
7.5°	1725.6	1727.8	1727.8	1723.4	1720.1	1720.1	1719.0	1720.1	1721.2	1724.5	1723.4
10°	1719.0	1720.1	1714.6	1706.9	1701.4	1698.1	1699.2	1701.4	1706.9	1709.1	1710.2
12.5°	1723.4	1723.4	1713.5	1702.5	1692.6	1688.2	1687.1	1694.8	1704.7	1711.3	1713.5
15°	1728.9	1726.7	1714.6	1700.3	1690.4	1689.3	1688.2	1693.7	1708.0	1721.2	1722.3
17.5°	1732.2	1731.1	1715.7	1698.1	1692.6	1692.6	1691.5	1695.9	1711.3	1727.8	1728.9
20°	1743.3	1739.9	1722.3	1703.6	1699.2	1701.4	1698.1	1703.6	1720.1	1739.9	1744.4
22.5°	1765.3	1762.0	1744.4	1725.6	1723.4	1723.4	1722.3	1727.8	1745.5	1766.4	1769.7
25°	1791.7	1788.4	1771.9	1758.7	1760.9	1765.3	1763.1	1764.2	1778.5	1796.1	1801.7
27.5°	1827.0	1821.5	1807.2	1796.1	1802.8	1802.8	1802.8	1801.7	1810.5	1827.0	1832.5
30°	1870.0	1867.8	1852.3	1851.2	1856.8	1851.2	1851.2	1852.3	1853.4	1868.9	1874.4
32.5°	1926.2	1921.8	1914.1	1911.8	1927.3	1931.7	1916.3	1901.9	1909.6	1925.1	1928.4
35°	2018.7	2012.1	2001.1	1989.0	2001.1	2022.0	1989.0	1978.0	1997.8	2018.7	2020.9
37.5°	2144.4	2141.0	2123.4	2101.4	2100.3	2122.3	2088.2	2087.1	2124.5	2149.9	2153.2
40°	2301.9	2305.2	2283.2	2262.3	2251.2	2268.9	2242.4	2252.3	2288.7	2317.4	2315.2
42.5°	2523.4	2511.3	2477.1	2457.3	2445.2	2438.6	2432.0	2447.4	2488.2	2519.0	2543.3
45°	2782.4	2778.0	2735.0	2710.7	2684.3	2674.4	2672.2	2699.7	2749.3	2786.8	2790.1
47.5°	3075.5	3065.6	3038.0	3012.7	3002.8	2990.6	2979.6	3000.6	3050.1	3076.6	3084.3
50°	3377.4	3379.6	3379.6	3375.2	3385.1	3387.3	3357.6	3365.3	3392.8	3390.6	3388.4
52.5°	3722.3	3734.4	3791.7	3797.2	3844.6	3876.6	3822.6	3790.6	3780.7	3721.2	3725.6
55°	4127.8	4138.8	4224.8	4310.7	4438.6	4492.6	4379.1	4279.9	4209.4	4119.0	4123.4
57.5°	4633.6	4639.1	4720.7	4886.0	5088.7	5215.4	5016.0	4819.8	4676.6	4590.6	4556.5
60°	5178.0	5183.5	5302.5	5504.1	5819.3	5973.6	5726.7	5406.1	5225.4	5094.2	5103.0
62.5°	5831.4	5853.4	5960.3	6238.0	6620.4	6793.4	6466.1	6037.5	5792.8	5629.8	5636.4
65°	6531.1	6568.6	6685.4	6990.6	7343.3	7529.5	7128.4	6633.6	6329.5	6130.0	6151.0
67.5°	6985.1	7018.2	7186.8	7524.0	7963.6	8117.9	7600.0	7023.7	6643.5	6405.5	6361.4
70°	6869.4	6897.0	7121.8	7600.0	8251.2	8446.3	7712.4	6966.4	6519.0	6244.6	6227.0
72.5°	6063.9	6006.6	6335.0	7021.5	7922.9	8250.1	7358.7	6362.5	5799.5	5517.4	5484.3
75°	4018.7	4143.3	4628.1	5436.9	6703.0	7108.5	6281.0	5108.5	4400.0	4165.3	4128.9
77.5°	1343.3	1439.1	1870.0	3082.1	4569.7	5179.1	4576.3	3341.1	2363.6	1904.1	1912.9
80°	355.9	351.5	455.1	847.4	1974.7	2999.5	2298.6	1131.7	619.3	448.5	425.3
82.5°	127.8	143.3	184.0	234.7	523.4	932.2	657.9	317.4	232.5	171.9	166.4
85°	56.2	55.1	79.3	93.7	131.1	174.1	154.3	134.4	117.9	78.2	72.7
87.5°	12.1	12.1	18.7	14.3	23.1	23.1	28.7	34.2	35.3	23.1	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)