

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: P317247

Luminaire Tested: **GLEON-SA3C-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16226 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

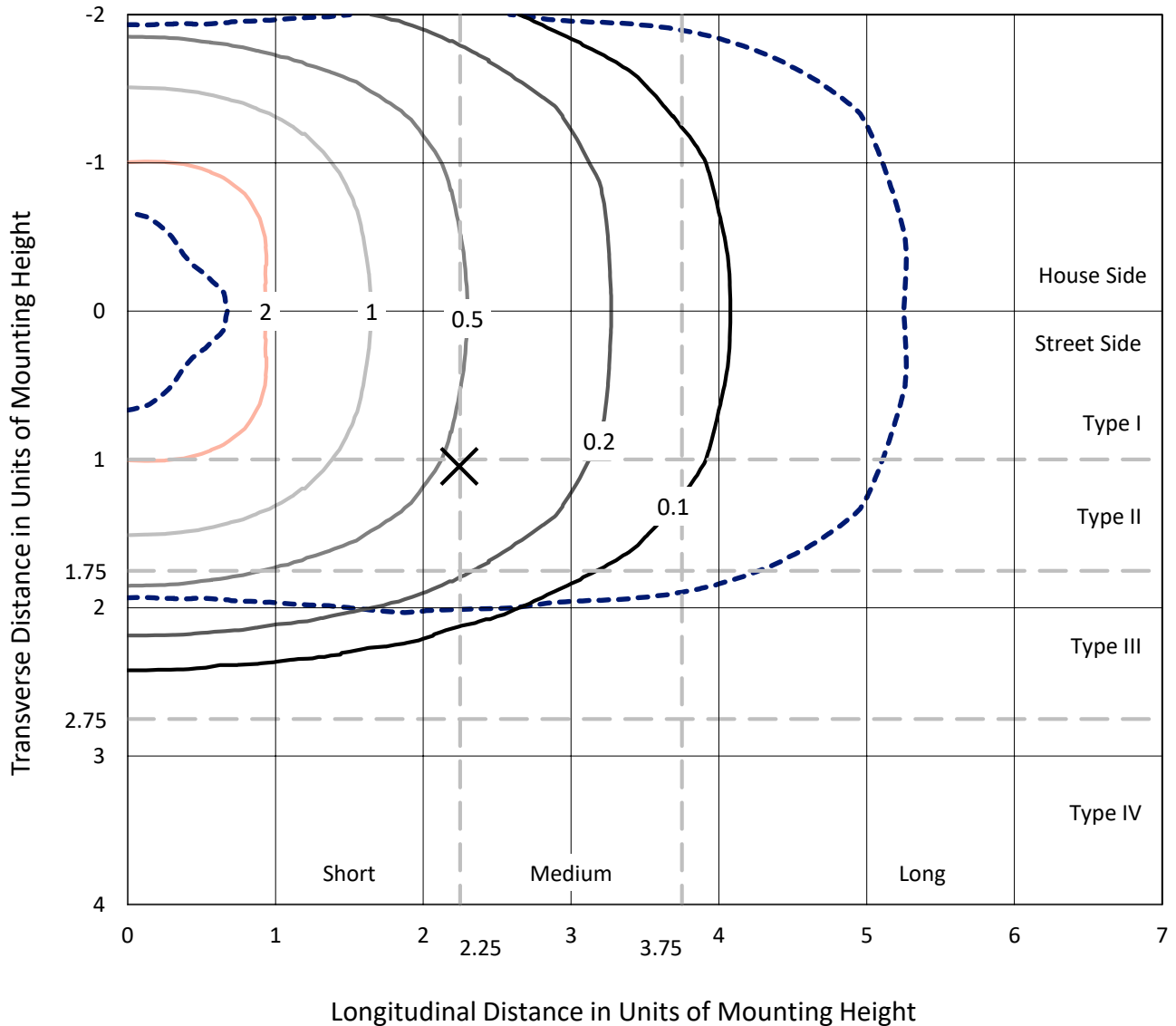
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P317247  
 CATALOG NUMBER: GLEON-SA3C-827-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

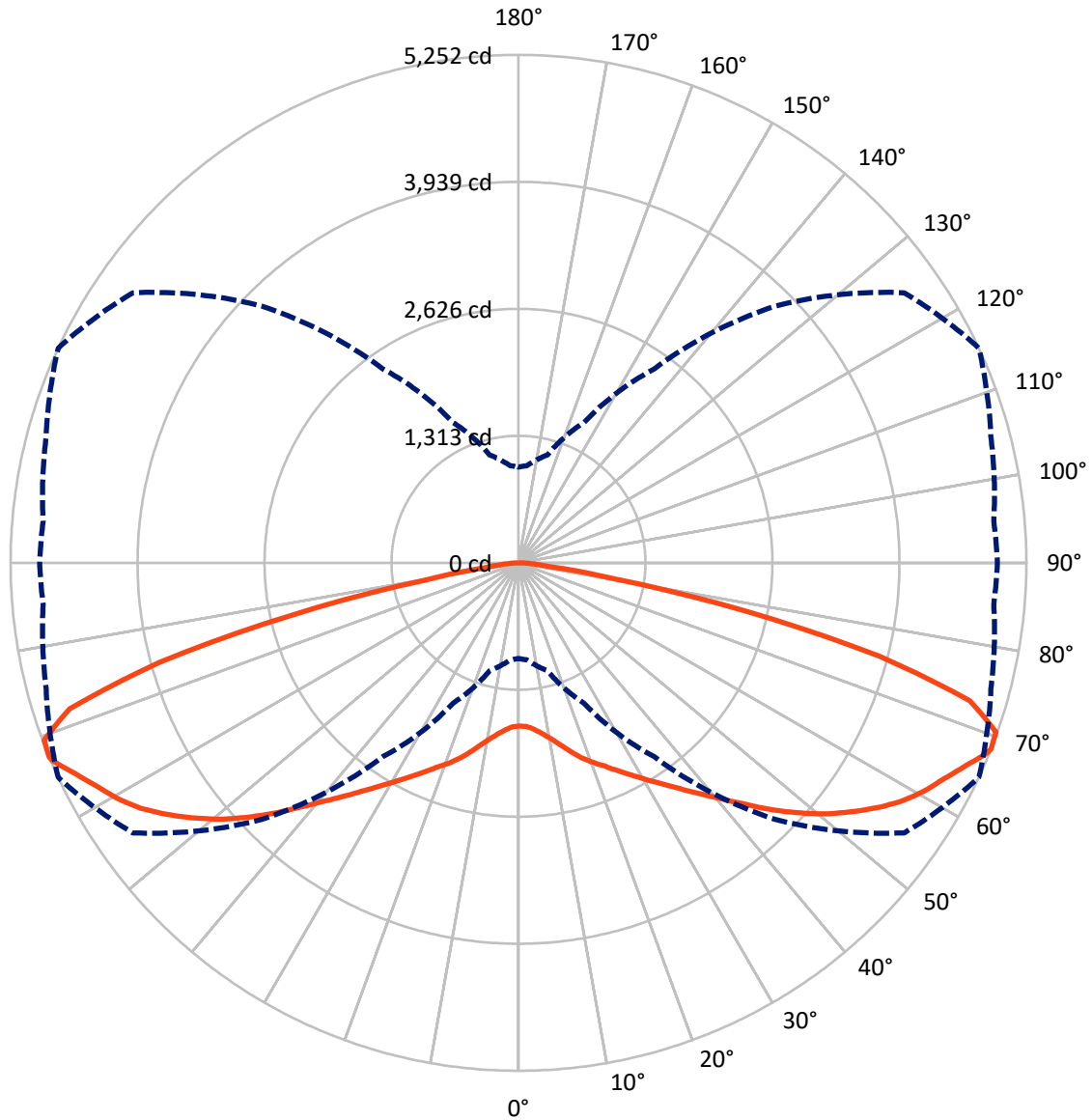
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P317247  
CATALOG NUMBER: GLEON-SA3C-827-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P317247  
 CATALOG NUMBER: GLEON-SA3C-827-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8113.0	0.0	8113.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8113.0	0.0	8113.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16226.0	0.0	16226.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	1.0
10°-20°	553.1	3.4
20°-30°	1078.4	6.6
30°-40°	1811.6	11.2
40°-50°	2854.5	17.6
50°-60°	3817.4	23.5
60°-70°	3711.0	22.9
70°-80°	2028.6	12.5
80°-90°	206.3	1.3
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°	16226.0	100.0
0°-180°	16226.0	100.0

**Coefficient of Utilization**

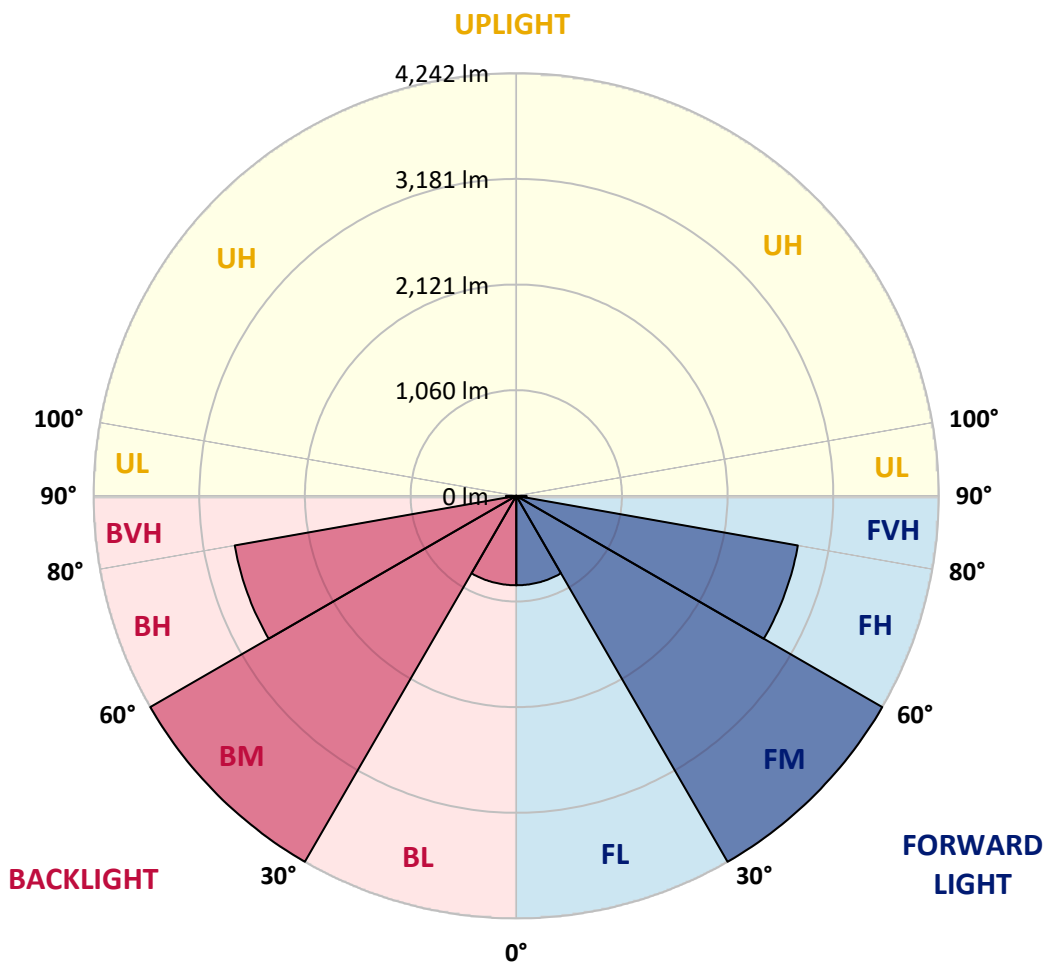


REPORT NUMBER: P317247  
 CATALOG NUMBER: GLEON-SA3C-827-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.3	5.5			
FM (30°-60°)	4241.7	26.1			
FH (60°-80°)	2869.8	17.7			G2/5000
FVH (80°-90°)	103.2	0.6			G2/225
BL (0°-30°)	898.3	5.5	B2/1000		
BM (30°-60°)	4241.7	26.1	B3/5000		
BH (60°-80°)	2869.8	17.7	B4/5000		G4/5000
BVH (80°-90°)	103.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type III Short





REPORT NUMBER: P317247  
 CATALOG NUMBER: GLEON-SA3C-827-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1687.1	1687.1	1687.1	1687.1	1687.1	1687.1	1687.1	1687.1	1687.1	1687.1	1687.1
2.5°	1675.2	1675.7	1678.4	1681.7	1684.4	1691.5	1693.1	1695.8	1696.9	1699.6	1699.6
5°	1660.5	1661.6	1668.1	1676.8	1686.6	1704.0	1716.5	1730.6	1737.7	1745.3	1744.8
7.5°	1658.8	1661.6	1670.8	1684.9	1701.3	1730.1	1756.2	1784.5	1803.6	1821.0	1819.9
10°	1675.7	1680.0	1693.1	1714.3	1738.8	1774.7	1813.3	1851.4	1884.6	1911.3	1912.4
12.5°	1701.3	1706.7	1727.4	1759.5	1796.5	1842.7	1888.4	1931.4	1977.1	2016.8	2020.1
15°	1735.0	1742.1	1773.1	1821.0	1877.5	1932.5	1981.5	2025.5	2078.3	2133.2	2138.7
17.5°	1785.1	1794.8	1835.6	1900.4	1974.9	2035.3	2086.5	2119.6	2163.7	2220.3	2230.6
20°	1861.2	1873.7	1925.4	2002.7	2093.5	2156.6	2195.8	2202.9	2224.7	2275.2	2287.2
22.5°	1960.2	1971.1	2028.8	2120.7	2222.5	2291.0	2311.7	2283.4	2281.2	2322.0	2333.5
25°	2070.7	2080.5	2147.4	2250.8	2360.1	2435.7	2435.2	2380.3	2342.2	2373.7	2385.7
27.5°	2194.7	2210.0	2274.2	2383.0	2499.9	2574.5	2570.1	2485.3	2412.9	2421.1	2431.4
30°	2337.3	2354.1	2416.7	2527.1	2644.1	2717.0	2711.6	2599.5	2490.7	2468.9	2476.5
32.5°	2514.1	2534.2	2593.5	2702.3	2805.7	2871.5	2855.8	2723.6	2584.3	2536.9	2544.0
35°	2726.8	2738.8	2801.4	2908.5	2992.3	3037.5	3004.3	2867.2	2702.9	2645.8	2645.8
37.5°	2942.3	2951.5	3021.7	3125.6	3206.7	3230.6	3165.9	3024.4	2857.9	2776.9	2778.5
40°	3149.0	3174.0	3252.9	3359.6	3439.5	3446.1	3360.1	3204.0	3030.4	2946.6	2956.4
42.5°	3365.0	3389.5	3483.6	3604.4	3675.1	3686.0	3585.3	3405.3	3225.2	3157.2	3168.0
45°	3557.6	3577.2	3686.0	3826.4	3914.5	3942.8	3823.6	3635.9	3435.7	3369.3	3372.1
47.5°	3692.0	3717.5	3837.2	4002.6	4131.0	4174.6	4057.6	3860.6	3643.0	3562.5	3569.6
50°	3813.8	3827.4	3948.8	4129.4	4292.6	4382.4	4282.3	4082.6	3852.5	3767.1	3774.7
52.5°	3881.9	3899.3	4016.8	4205.0	4398.2	4542.9	4481.9	4282.3	4054.9	3971.6	3980.9
55°	3834.5	3847.6	3988.5	4221.9	4463.4	4641.9	4651.1	4477.6	4253.4	4180.5	4206.7
57.5°	3619.1	3635.4	3807.3	4113.1	4471.6	4708.8	4778.5	4658.8	4439.0	4379.7	4394.9
60°	3282.3	3292.6	3476.0	3819.8	4312.7	4736.6	4859.5	4806.7	4620.7	4561.4	4582.1
62.5°	2682.2	2697.4	2916.7	3377.5	3977.1	4654.4	4937.9	4929.2	4789.9	4735.5	4754.0
65°	1833.5	1860.1	2102.8	2685.5	3459.7	4403.1	5009.1	5071.7	4939.5	4870.9	4895.4
67.5°	1107.2	1126.7	1302.5	1773.1	2647.4	3896.0	4935.7	5233.8	5045.0	4934.6	4954.7
68°	989.6	1007.6	1154.5	1600.1	2448.8	3752.9	4868.8	5252.3	5056.5	4933.5	4951.5
70°	597.9	609.9	708.4	989.1	1632.7	2977.1	4412.3	5237.1	5129.4	4948.7	4959.1
72.5°	389.5	393.4	409.7	507.6	834.0	1664.8	3311.7	4880.2	5238.7	5037.4	5035.8
75°	323.7	321.5	323.2	334.6	411.3	730.1	1935.2	3855.2	4993.9	4897.6	4863.3
77.5°	273.7	272.0	271.5	272.0	275.3	352.5	840.0	2401.5	3821.5	4332.3	4362.8
80°	221.4	219.3	226.3	223.1	213.3	219.3	352.0	998.9	1801.4	1937.9	1816.1
82.5°	161.0	152.9	183.3	174.6	166.5	154.5	194.2	322.6	429.8	294.9	207.3
85°	124.0	115.3	139.3	133.8	114.3	78.9	115.3	157.8	174.1	99.6	78.3
87.5°	50.6	53.3	100.7	79.4	66.9	38.1	47.3	63.1	84.9	42.4	32.6
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)