

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: P316936

Luminaire Tested: **GLEON-SA2D-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12038 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

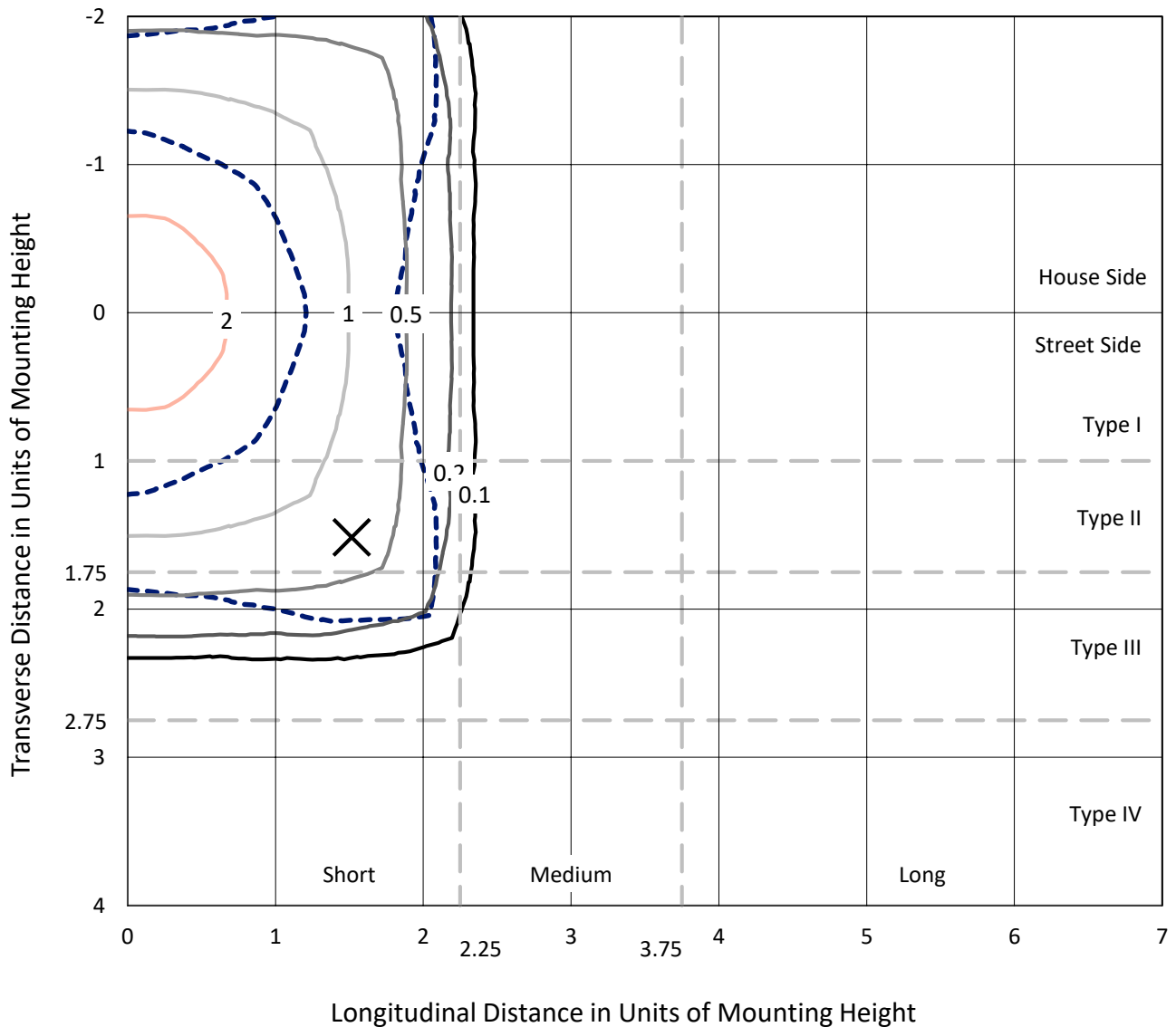
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

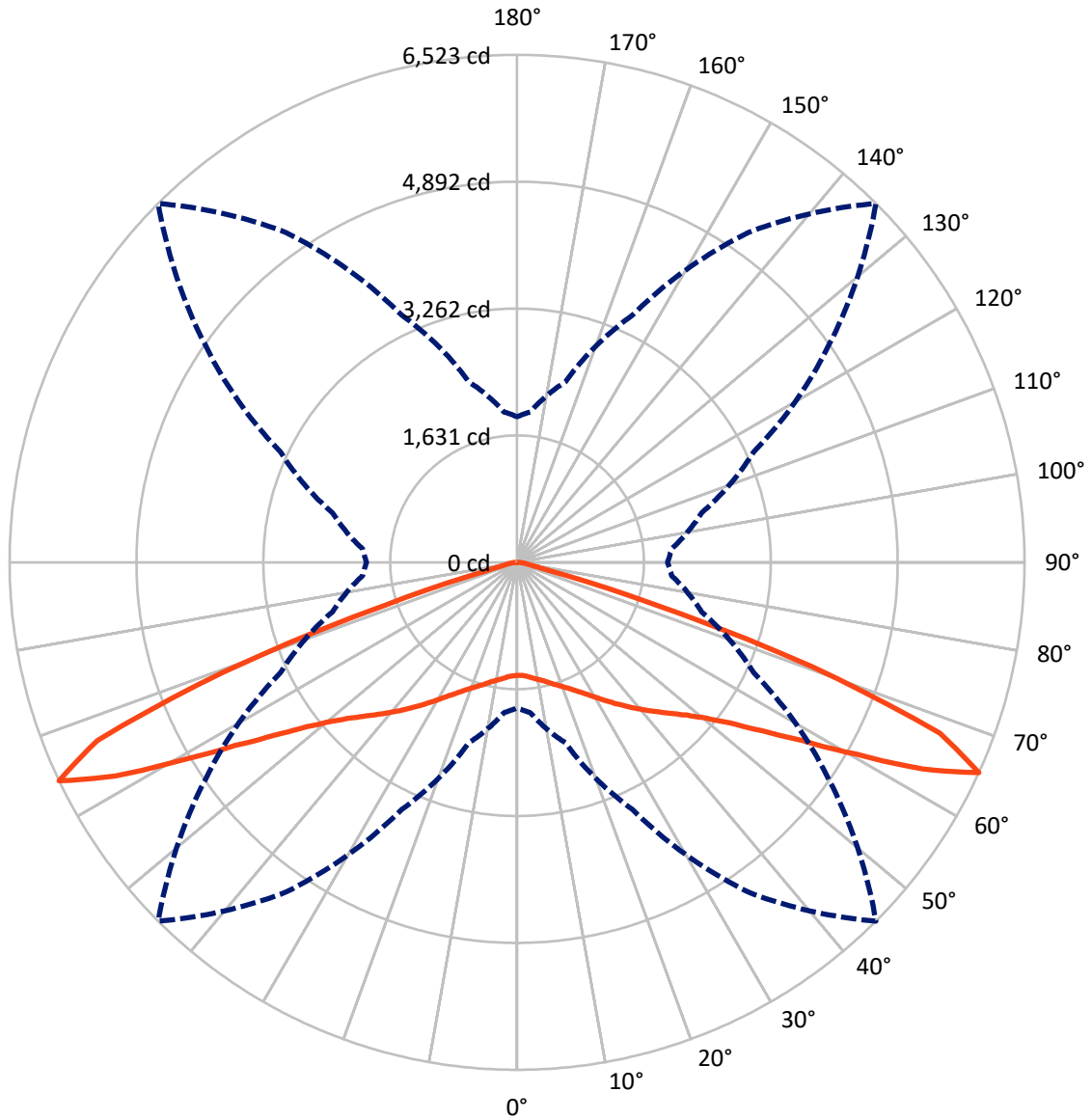
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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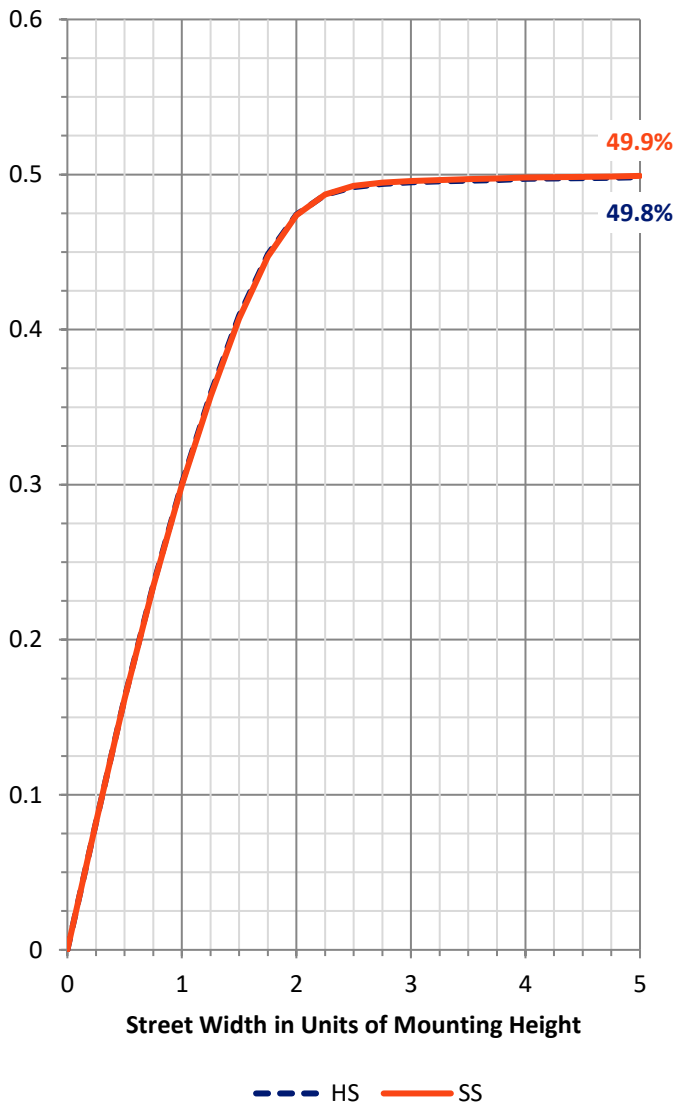
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6019.0	0.0	6019.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6019.0	0.0	6019.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12038.0	0.0	12038.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	1.2
10°-20°	458.5	3.8
20°-30°	860.2	7.1
30°-40°	1422.5	11.8
40°-50°	2203.3	18.3
50°-60°	3379.2	28.1
60°-70°	3153.2	26.2
70°-80°	367.0	3.0
80°-90°	51.6	0.4
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°	12038.0	100.0
0°-180°	12038.0	100.0

**Coefficient of Utilization**



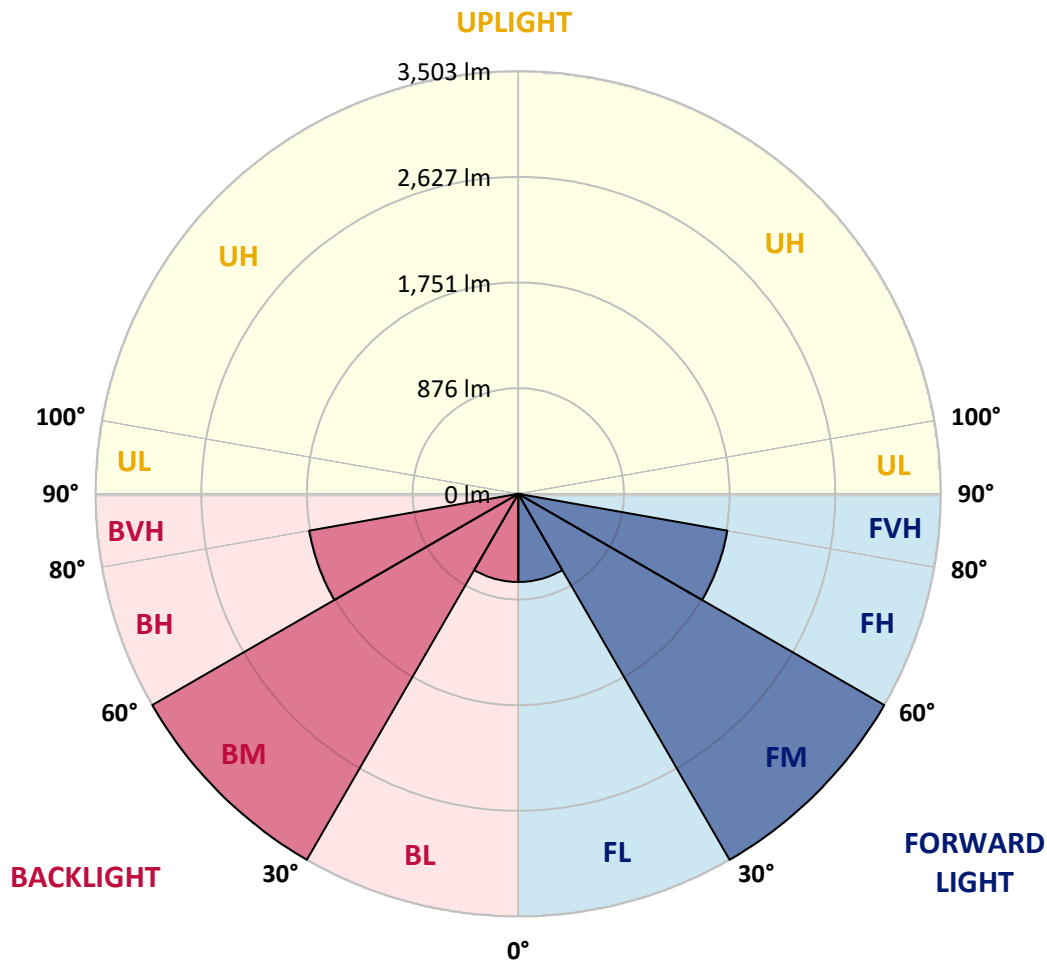
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.6	6.1			
FM (30°-60°)	3502.5	29.1			
FH (60°-80°)	1760.1	14.6			G1/1800
FVH (80°-90°)	25.8	0.2			G1/100
BL (0°-30°)	730.6	6.1	B2/1000		
BM (30°-60°)	3502.5	29.1	B3/5000		
BH (60°-80°)	1760.1	14.6	B3/2500		G1/1800
BVH (80°-90°)	25.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7	1453.7
2.5°	1458.5	1457.7	1458.5	1458.9	1456.5	1457.7	1457.3	1459.3	1460.1	1459.3	1459.3
5°	1475.3	1474.1	1475.7	1477.7	1474.5	1475.3	1474.1	1476.5	1477.3	1475.7	1476.9
7.5°	1498.5	1498.9	1500.5	1504.1	1502.1	1503.7	1501.3	1501.7	1501.3	1498.9	1499.3
10°	1523.7	1524.1	1526.9	1531.7	1532.5	1532.5	1530.9	1529.7	1528.1	1526.5	1526.9
12.5°	1554.0	1556.0	1558.0	1564.0	1564.0	1567.2	1566.4	1563.2	1560.4	1558.0	1558.0
15°	1595.2	1594.8	1597.2	1603.2	1606.0	1611.2	1611.2	1606.8	1603.2	1600.8	1600.0
17.5°	1638.4	1639.6	1641.2	1648.3	1652.7	1658.7	1659.5	1655.9	1653.5	1650.3	1648.3
20°	1688.7	1690.7	1697.1	1699.9	1703.9	1709.5	1711.5	1710.7	1708.3	1706.7	1707.1
22.5°	1747.4	1752.6	1756.6	1760.6	1765.4	1769.4	1771.4	1774.2	1771.8	1770.6	1769.8
25°	1818.6	1822.2	1830.2	1837.4	1840.6	1841.8	1844.1	1848.1	1847.7	1844.9	1844.9
27.5°	1899.3	1906.1	1916.1	1926.5	1926.5	1922.5	1930.5	1937.3	1934.9	1931.3	1926.5
30°	1997.2	2003.6	2015.2	2029.6	2022.4	2019.6	2030.4	2042.7	2039.2	2033.2	2032.4
32.5°	2102.7	2108.7	2123.9	2139.5	2130.3	2126.3	2137.9	2155.8	2149.4	2137.5	2130.3
35°	2217.0	2223.0	2244.5	2263.3	2247.7	2241.0	2250.5	2270.1	2258.9	2236.6	2231.0
37.5°	2341.3	2344.4	2372.4	2391.6	2380.8	2362.8	2374.8	2389.2	2379.6	2352.4	2341.6
40°	2470.3	2481.9	2514.3	2536.7	2517.9	2489.5	2509.5	2529.5	2515.1	2480.3	2461.9
42.5°	2621.0	2629.8	2672.9	2692.9	2662.5	2622.6	2649.7	2676.9	2662.5	2629.0	2613.0
45°	2777.6	2791.2	2842.7	2862.7	2818.8	2768.0	2801.2	2848.7	2847.5	2799.2	2782.4
47.5°	2948.2	2961.8	3023.4	3049.7	3002.2	2934.3	2981.0	3048.1	3043.3	2990.2	2976.6
50°	3145.2	3159.6	3236.4	3269.5	3225.2	3146.0	3216.4	3275.5	3266.7	3201.2	3202.4
52.5°	3392.6	3391.8	3487.3	3544.8	3499.3	3429.4	3494.1	3551.6	3515.3	3424.6	3421.8
55°	3609.2	3622.4	3740.6	3849.7	3846.9	3820.2	3846.1	3848.5	3744.6	3624.0	3609.2
57.5°	3751.4	3776.6	3943.2	4140.6	4288.5	4324.1	4273.7	4121.1	3877.7	3684.7	3661.1
60°	3663.9	3702.3	3964.0	4366.4	4802.0	5011.0	4726.9	4253.3	3774.2	3505.3	3473.3
62.5°	3073.3	3138.1	3521.3	4257.3	5243.9	5854.9	5055.3	4041.1	3362.6	2992.2	2937.5
65°	1871.7	1940.1	2402.0	3504.1	5172.4	6523.1	4905.5	3354.2	2454.3	1993.6	1934.5
67.5°	623.8	643.8	915.9	1936.9	4065.1	5860.9	4071.9	2008.0	1068.1	708.1	687.3
70°	244.2	246.2	290.5	561.4	1919.7	4025.6	2118.3	571.4	303.7	240.2	245.4
72.5°	179.4	180.2	192.6	234.6	500.3	1773.4	518.3	235.8	187.4	168.2	168.2
75°	144.3	144.3	153.0	171.0	224.2	406.8	227.4	169.0	146.7	134.3	132.7
77.5°	113.9	116.3	123.1	134.7	151.8	195.8	157.4	133.9	118.3	106.7	104.3
80°	84.7	87.1	98.3	103.9	109.1	135.9	116.3	104.7	93.5	79.9	77.5
82.5°	55.5	57.9	71.9	75.1	73.9	88.7	78.3	77.1	68.7	51.5	49.2
85°	36.4	37.2	48.0	49.9	46.0	40.4	49.9	52.7	48.0	33.6	32.4
87.5°	17.2	17.2	24.4	22.8	20.8	16.8	22.8	26.8	27.2	16.4	16.0
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)