

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: P316917

Luminaire Tested: **GLEON-SA3B-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316917  
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-SA3B-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13230 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

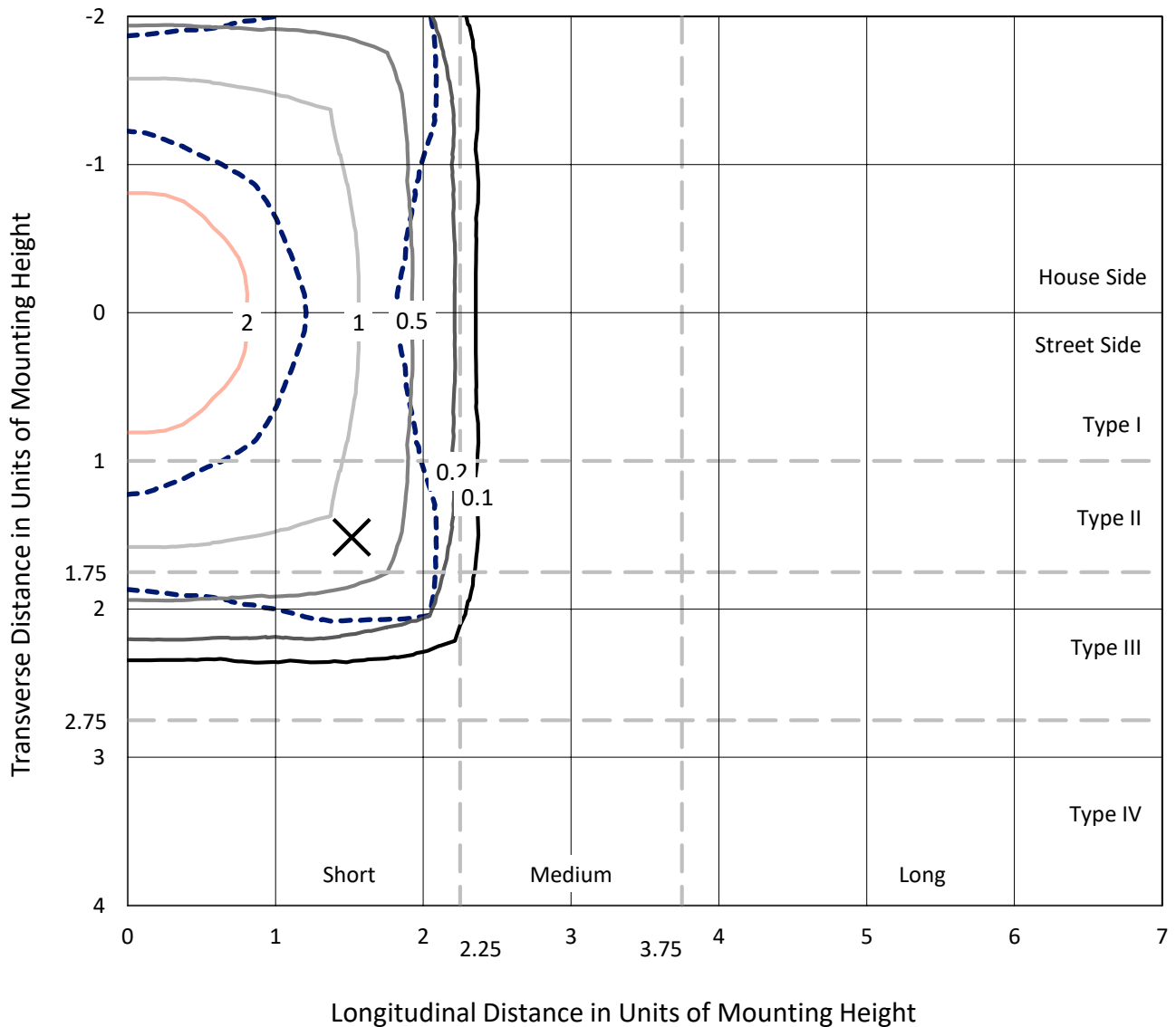
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

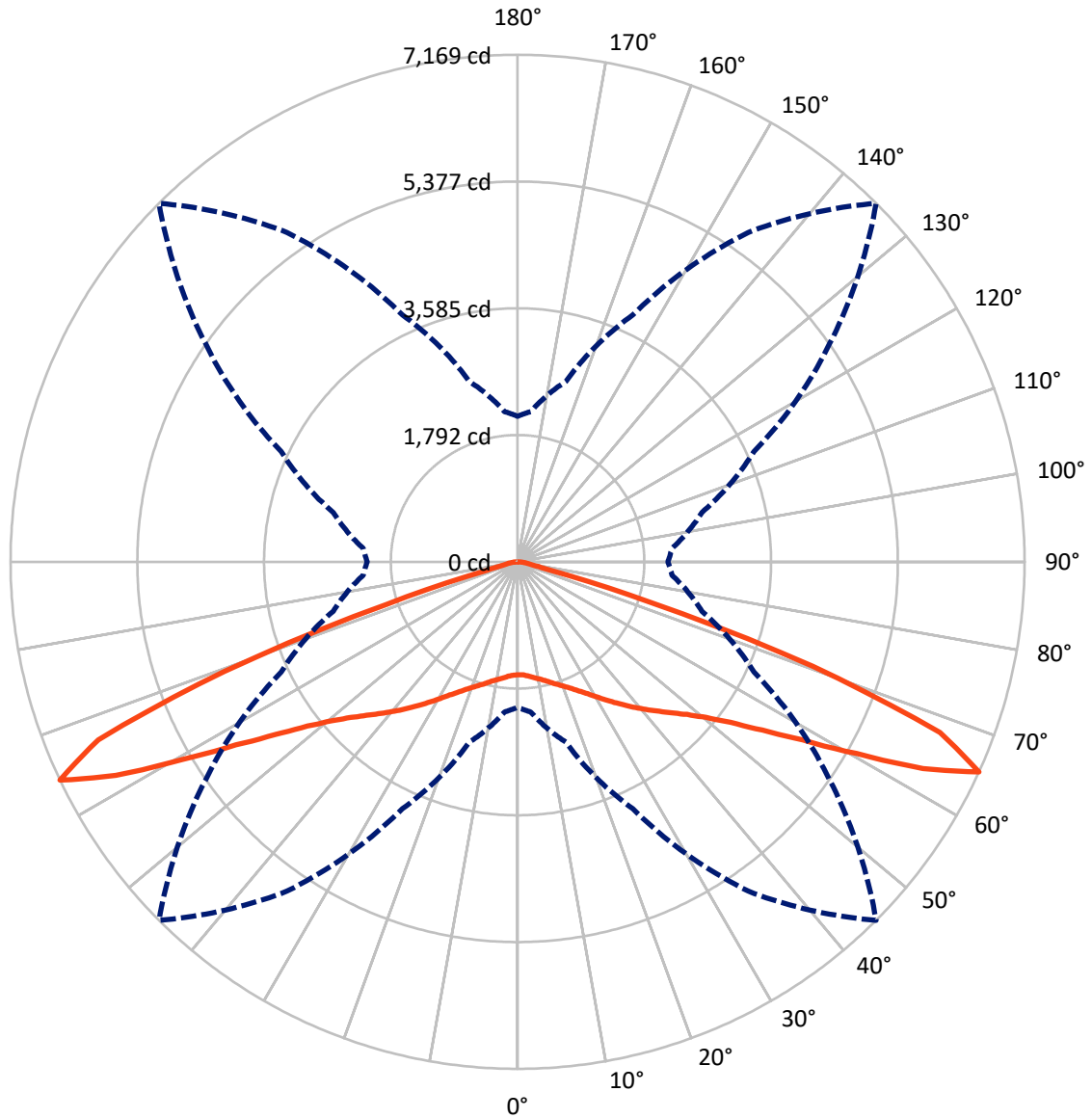
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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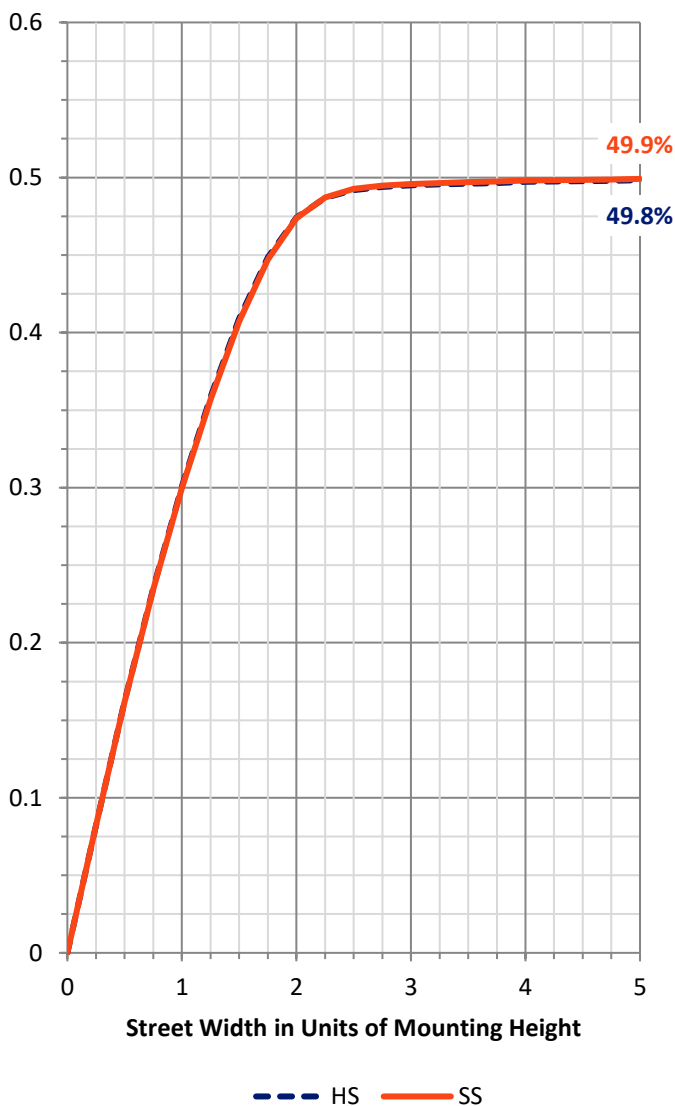
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6615.0	0.0	6615.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6615.0	0.0	6615.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13230.0	0.0	13230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.7	1.2
10°-20°	503.9	3.8
20°-30°	945.3	7.1
30°-40°	1563.4	11.8
40°-50°	2421.5	18.3
50°-60°	3713.8	28.1
60°-70°	3465.4	26.2
70°-80°	403.3	3.0
80°-90°	56.7	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°	13230.0	100.0
0°-180°	13230.0	100.0

**Coefficient of Utilization**



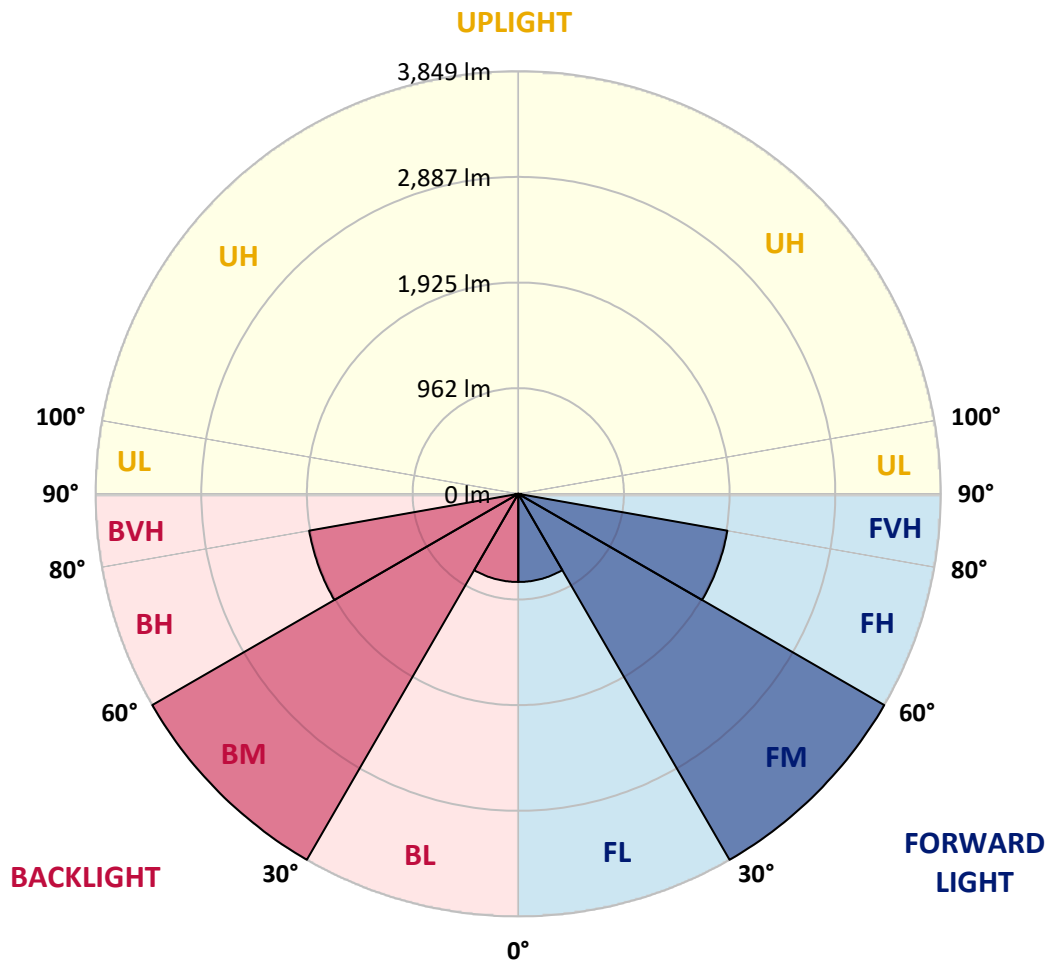
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.0	6.1			
FM (30°-60°)	3849.3	29.1			
FH (60°-80°)	1934.4	14.6			G2/5000
FVH (80°-90°)	28.3	0.2			G1/100
BL (0°-30°)	803.0	6.1	B2/1000		
BM (30°-60°)	3849.3	29.1	B3/5000		
BH (60°-80°)	1934.4	14.6	B3/2500		G2/5000
BVH (80°-90°)	28.3	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7
2.5°	1603.0	1602.1	1603.0	1603.4	1600.8	1602.1	1601.6	1603.8	1604.7	1603.8	1603.8
5°	1621.4	1620.1	1621.8	1624.0	1620.5	1621.4	1620.1	1622.7	1623.6	1621.8	1623.2
7.5°	1646.9	1647.3	1649.1	1653.0	1650.8	1652.6	1650.0	1650.4	1650.0	1647.3	1647.8
10°	1674.5	1675.0	1678.1	1683.3	1684.2	1684.2	1682.4	1681.1	1679.4	1677.6	1678.1
12.5°	1707.9	1710.1	1712.3	1718.9	1718.9	1722.4	1721.5	1718.0	1714.9	1712.3	1712.3
15°	1753.2	1752.7	1755.4	1761.9	1765.0	1770.7	1770.7	1765.9	1761.9	1759.3	1758.4
17.5°	1800.6	1801.9	1803.7	1811.6	1816.4	1823.0	1823.9	1819.9	1817.3	1813.8	1811.6
20°	1855.9	1858.1	1865.1	1868.2	1872.6	1878.8	1881.0	1880.1	1877.4	1875.7	1876.1
22.5°	1920.5	1926.2	1930.6	1935.0	1940.2	1944.6	1946.8	1949.9	1947.3	1945.9	1945.1
25°	1998.6	2002.6	2011.4	2019.3	2022.8	2024.1	2026.8	2031.1	2030.7	2027.6	2027.6
27.5°	2087.4	2094.8	2105.8	2117.2	2117.2	2112.8	2121.6	2129.1	2126.4	2122.5	2117.2
30°	2195.0	2202.0	2214.7	2230.5	2222.6	2219.6	2231.4	2245.0	2241.1	2234.5	2233.6
32.5°	2310.9	2317.5	2334.2	2351.3	2341.2	2336.8	2349.5	2369.3	2362.3	2349.1	2341.2
35°	2436.5	2443.1	2466.8	2487.4	2470.3	2462.8	2473.4	2494.9	2482.6	2458.0	2451.9
37.5°	2573.1	2576.6	2607.3	2628.4	2616.6	2596.8	2610.0	2625.8	2615.2	2585.4	2573.5
40°	2714.9	2727.7	2763.2	2787.8	2767.2	2736.0	2758.0	2779.9	2764.1	2725.9	2705.7
42.5°	2880.5	2890.2	2937.6	2959.5	2926.2	2882.3	2912.1	2942.0	2926.2	2889.3	2871.7
45°	3052.7	3067.6	3124.2	3146.2	3097.9	3042.1	3078.6	3130.8	3129.5	3076.4	3057.9
47.5°	3240.2	3255.1	3322.7	3351.7	3299.5	3224.8	3276.2	3350.0	3344.7	3286.3	3271.4
50°	3456.7	3472.5	3556.8	3593.3	3544.5	3457.6	3534.9	3599.9	3590.2	3518.2	3519.5
52.5°	3728.5	3727.7	3832.6	3895.9	3845.8	3768.9	3840.1	3903.3	3863.4	3763.7	3760.6
55°	3966.6	3981.1	4111.0	4230.9	4227.9	4198.4	4227.0	4229.6	4115.4	3982.8	3966.6
57.5°	4122.9	4150.6	4333.7	4550.6	4713.1	4752.2	4696.9	4529.1	4261.7	4049.6	4023.6
60°	4026.7	4068.9	4356.5	4798.8	5277.5	5507.2	5194.9	4674.5	4147.9	3852.4	3817.2
62.5°	3377.6	3448.8	3869.9	4678.9	5763.2	6434.7	5555.9	4441.3	3695.6	3288.5	3228.3
65°	2057.1	2132.2	2639.8	3851.1	5684.6	7169.0	5391.2	3686.4	2697.4	2191.0	2126.0
67.5°	685.5	707.5	1006.6	2128.6	4467.6	6441.3	4475.1	2206.8	1173.9	778.2	755.4
70°	268.3	270.5	319.3	617.0	2109.8	4424.2	2328.0	628.0	333.8	263.9	269.6
72.5°	197.2	198.1	211.7	257.8	549.8	1949.0	569.6	259.1	206.0	184.9	184.9
75°	158.5	158.5	168.2	188.0	246.4	447.1	249.9	185.8	161.2	147.6	145.8
77.5°	125.2	127.8	135.3	148.0	166.9	215.2	173.0	147.1	130.0	117.3	114.6
80°	93.1	95.7	108.0	114.2	119.9	149.3	127.8	115.1	102.8	87.8	85.2
82.5°	61.0	63.7	79.1	82.6	81.2	97.5	86.1	84.8	75.5	56.7	54.0
85°	40.0	40.8	52.7	54.9	50.5	44.4	54.9	58.0	52.7	36.9	35.6
87.5°	18.9	18.9	26.8	25.0	22.8	18.4	25.0	29.4	29.9	18.0	17.6
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)