

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: P316271

Luminaire Tested: **GLEON-SA7A-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 25524 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

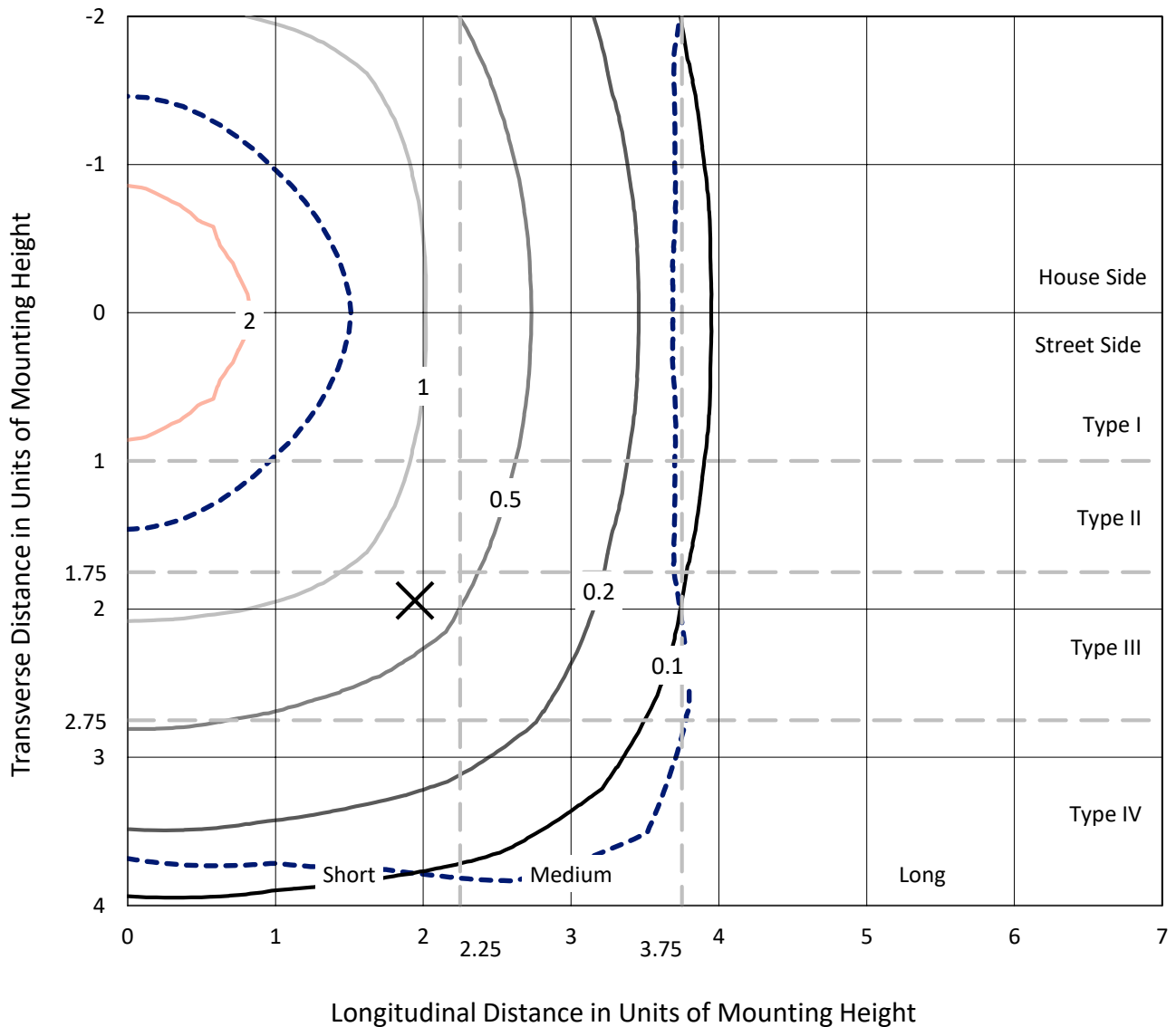
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

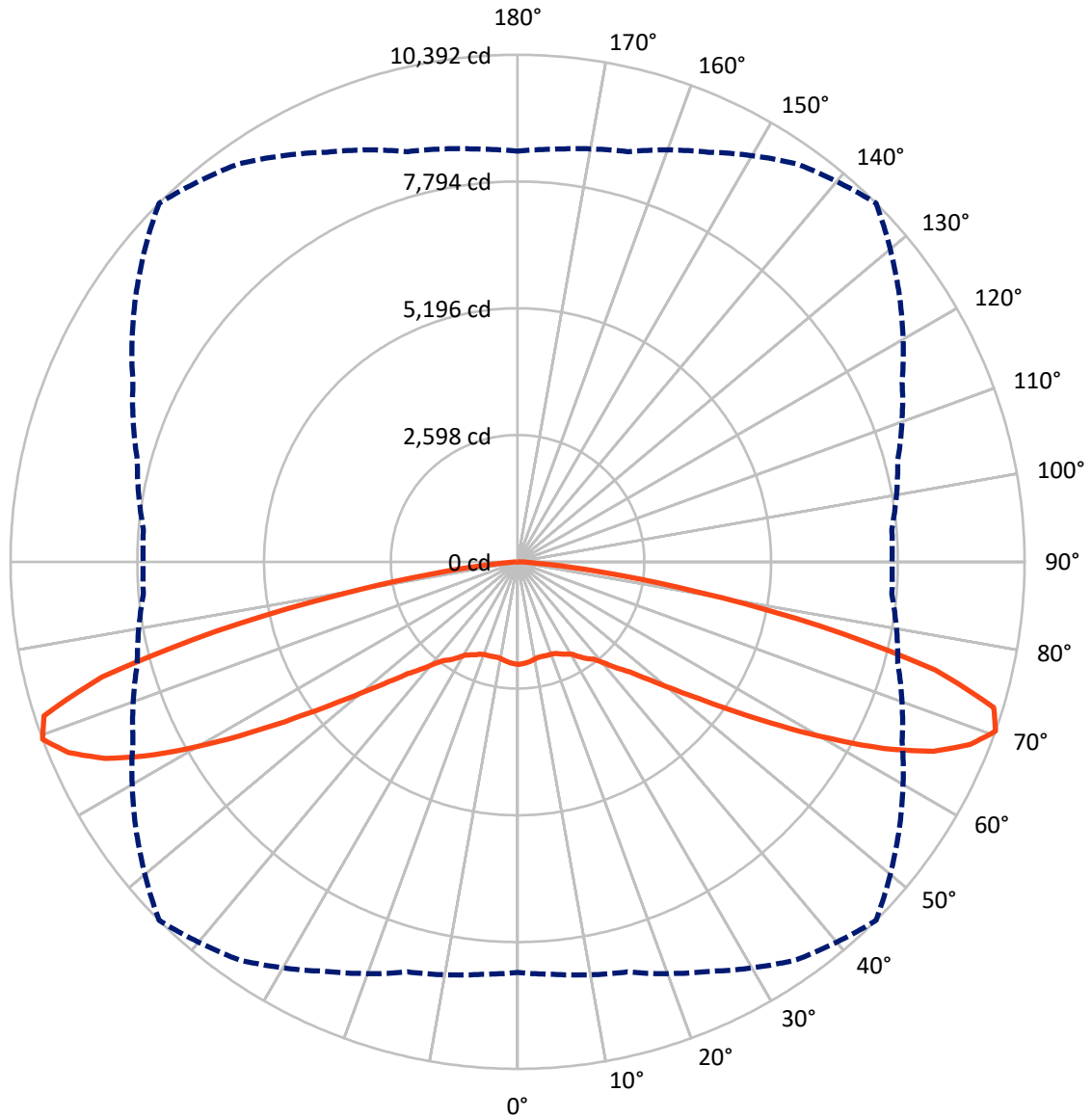
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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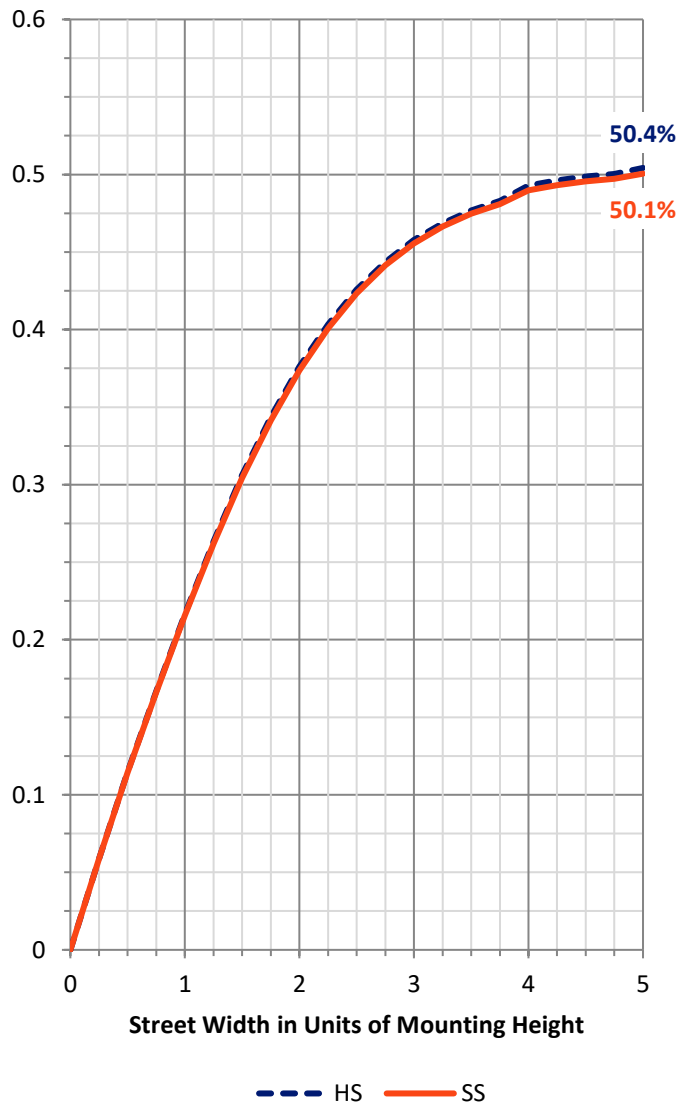
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12762.0	0.0	12762.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12762.0	0.0	12762.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25524.0	0.0	25524.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.1	0.8
10°-20°	572.7	2.2
20°-30°	976.4	3.8
30°-40°	1525.7	6.0
40°-50°	2585.7	10.1
50°-60°	4715.2	18.5
60°-70°	8117.6	31.8
70°-80°	6362.8	24.9
80°-90°	471.8	1.8
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°	25524.0	100.0
0°-180°	25524.0	100.0

**Coefficient of Utilization**



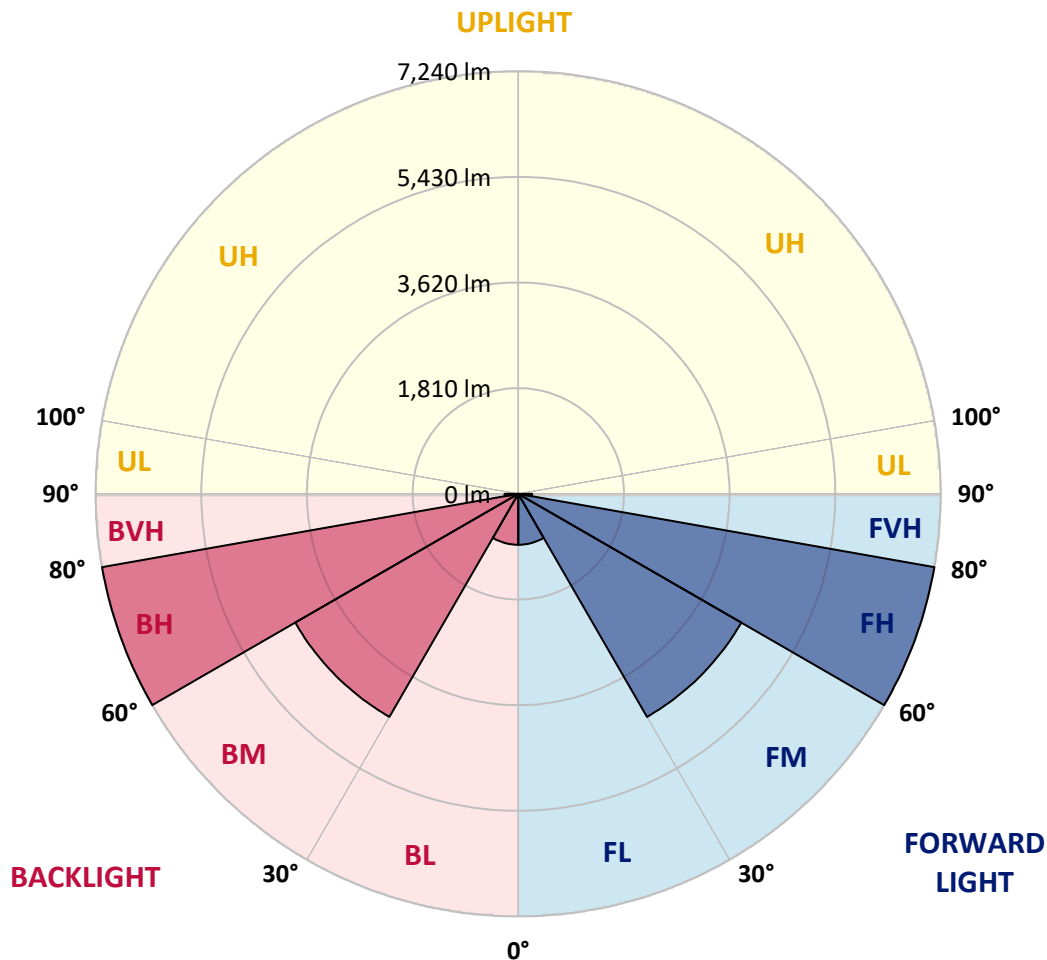
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.6	3.4			
FM (30°-60°)	4413.3	17.3			
FH (60°-80°)	7240.2	28.4			G3/7500
FVH (80°-90°)	235.9	0.9			G3/500
BL (0°-30°)	872.6	3.4	B2/1000		
BM (30°-60°)	4413.3	17.3	B3/5000		
BH (60°-80°)	7240.2	28.4	B5		G3/7500
BVH (80°-90°)	235.9	0.9			G3/500
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6
2.5°	2091.3	2093.9	2091.3	2093.0	2088.8	2090.5	2090.5	2090.5	2089.7	2090.5	2088.8
5°	2072.8	2074.5	2071.1	2072.8	2070.2	2072.8	2073.6	2072.8	2071.1	2071.9	2068.5
7.5°	2044.9	2046.6	2044.1	2046.6	2043.2	2047.4	2046.6	2044.1	2041.5	2041.5	2038.2
10°	2029.7	2030.6	2023.8	2021.3	2013.7	2015.4	2017.9	2020.4	2023.0	2028.0	2027.2
12.5°	2030.6	2030.6	2020.4	2009.4	1998.5	2001.0	2005.2	2014.5	2024.6	2033.9	2034.8
15°	2039.0	2038.2	2023.0	2005.2	1997.6	2005.2	2007.8	2013.7	2029.7	2045.7	2046.6
17.5°	2044.9	2044.9	2021.3	2001.0	2000.2	2012.0	2011.1	2013.7	2031.4	2055.0	2055.9
20°	2055.9	2055.9	2025.5	2003.5	2003.5	2016.2	2017.0	2021.3	2039.0	2065.2	2069.4
22.5°	2080.4	2081.2	2049.1	2031.4	2033.1	2040.7	2043.2	2050.0	2066.0	2094.7	2099.8
25°	2115.0	2116.7	2083.7	2073.6	2079.5	2093.9	2092.2	2097.3	2115.0	2142.8	2147.9
27.5°	2163.1	2158.9	2128.5	2124.3	2130.2	2140.3	2139.5	2140.3	2154.7	2180.0	2185.9
30°	2225.6	2223.9	2201.9	2204.5	2201.9	2198.6	2199.4	2206.2	2213.8	2234.0	2239.9
32.5°	2286.4	2288.1	2274.6	2287.2	2305.8	2318.5	2299.0	2280.5	2272.0	2283.0	2288.1
35°	2396.1	2400.4	2379.2	2370.8	2396.1	2433.3	2378.4	2348.0	2364.9	2379.2	2383.5
37.5°	2582.7	2585.3	2549.8	2516.0	2497.5	2532.9	2478.0	2480.6	2539.7	2566.7	2565.8
40°	2795.5	2796.3	2772.7	2743.1	2711.1	2719.5	2697.6	2704.3	2743.1	2767.6	2774.4
42.5°	3048.8	3046.2	3009.1	2966.9	2957.6	2966.0	2928.9	2923.8	2968.6	3012.5	3013.3
45°	3377.2	3371.3	3323.2	3276.7	3232.0	3213.4	3204.1	3228.6	3290.3	3330.8	3331.6
47.5°	3731.0	3714.9	3689.6	3652.5	3613.6	3595.0	3579.8	3591.7	3636.4	3652.5	3654.1
50°	4094.9	4098.3	4103.3	4089.0	4074.6	4068.7	4029.0	4006.2	4019.7	3990.2	3986.0
52.5°	4526.3	4533.1	4582.0	4623.4	4647.9	4660.6	4585.4	4506.9	4463.0	4405.6	4388.7
55°	5035.4	5046.4	5118.2	5233.0	5351.2	5413.7	5277.7	5130.8	4994.9	4887.7	4853.1
57.5°	5602.8	5622.2	5721.0	5941.4	6183.7	6331.4	6101.8	5835.0	5572.4	5417.9	5390.9
60°	6268.1	6286.7	6423.5	6739.2	7131.8	7353.9	7006.0	6569.5	6242.8	6095.0	6045.2
62.5°	7060.1	7061.8	7229.8	7598.7	8117.1	8426.2	7955.0	7371.6	7034.7	6856.6	6808.5
65°	7912.0	7916.2	8090.1	8488.6	9024.8	9360.8	8828.9	8221.0	7809.0	7546.4	7509.2
67.5°	8514.0	8531.7	8714.9	9194.5	9696.0	9999.1	9448.6	8761.3	8285.2	7971.9	7940.7
70°	8417.7	8486.9	8702.2	9262.0	9959.4	10391.7	9549.1	8697.2	8069.0	7699.2	7673.0
72.5°	7341.2	7473.8	7760.8	8495.4	9610.7	10205.9	9001.1	7789.6	7078.6	6763.7	6716.4
75°	4999.1	5214.4	5647.6	6707.2	8210.9	8836.5	7577.6	6210.7	5542.0	5106.4	5074.3
77.5°	2229.0	2277.9	2826.7	4046.7	5666.1	6345.8	5505.7	4062.8	3049.6	2432.4	2302.4
80°	621.4	629.0	839.2	1507.1	2836.0	3728.4	3044.6	1583.1	889.9	627.3	591.0
82.5°	197.6	214.5	261.7	390.9	953.2	1701.3	978.5	422.2	300.6	239.8	216.1
85°	96.3	95.4	132.6	158.7	243.2	376.6	259.2	195.9	171.4	114.0	103.0
87.5°	40.5	41.4	61.6	55.7	70.9	60.8	83.6	87.8	92.0	50.7	43.9
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)