

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: P316598

Luminaire Tested: **GLEON-SA4B-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17802 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

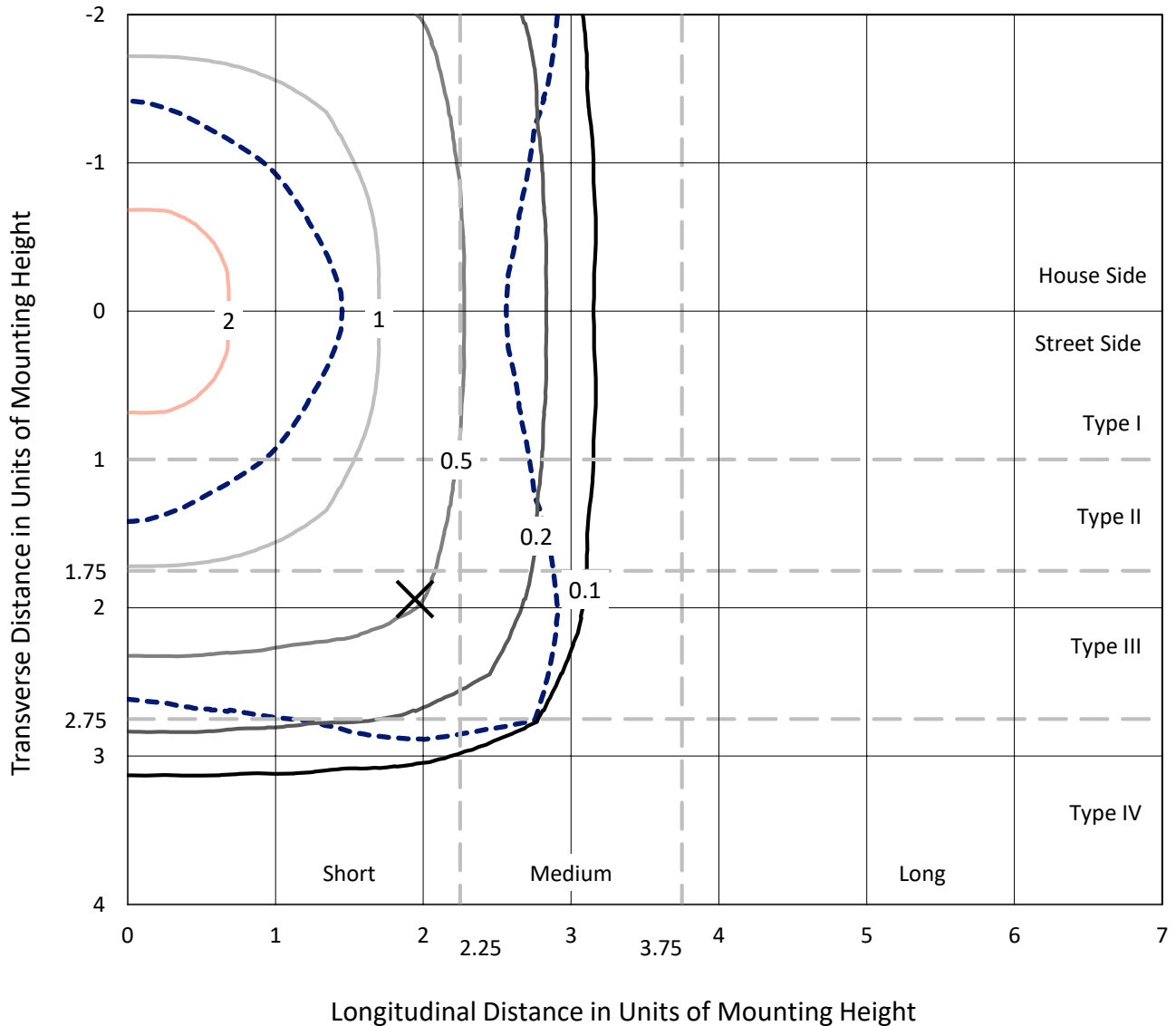
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

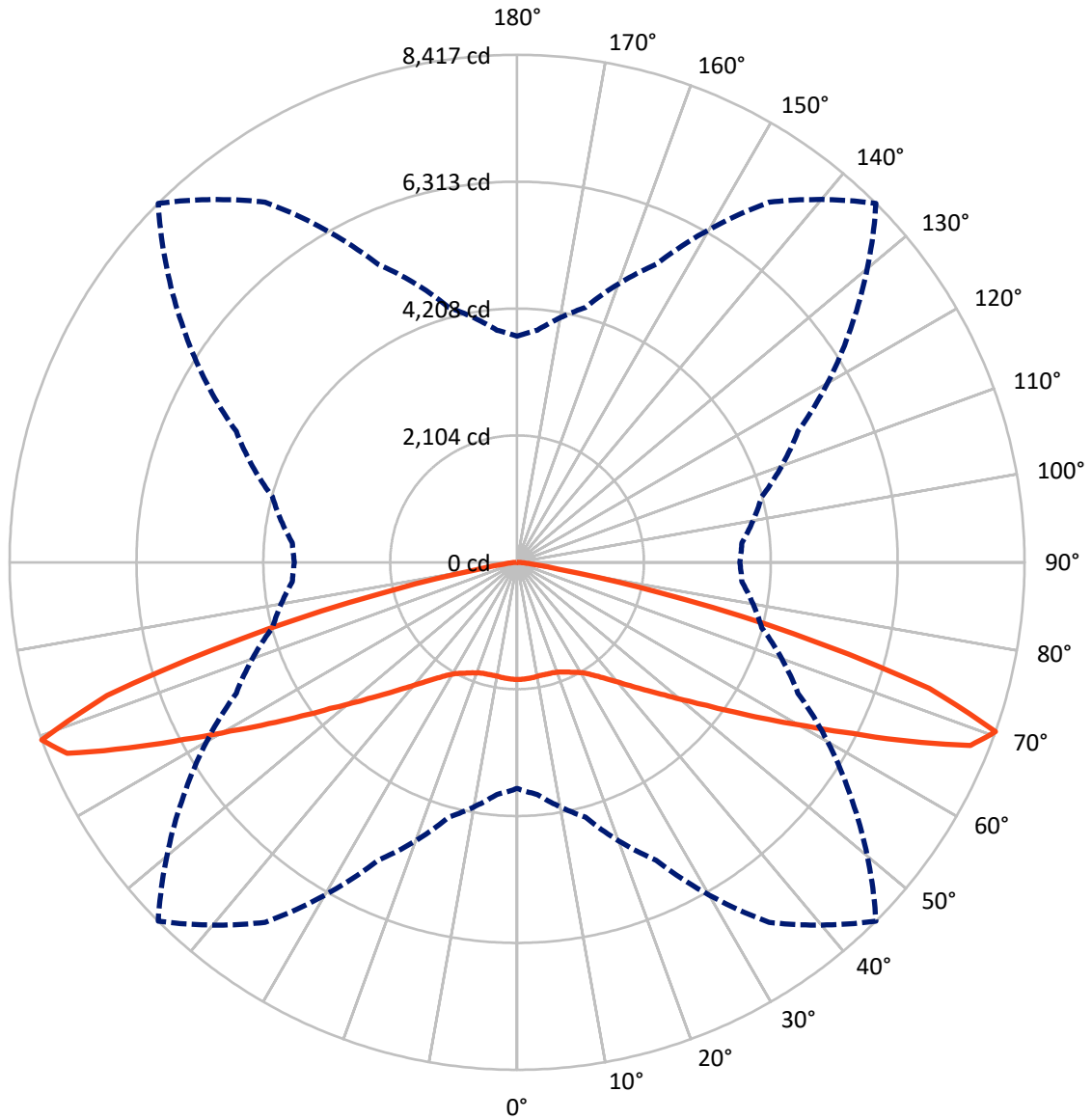
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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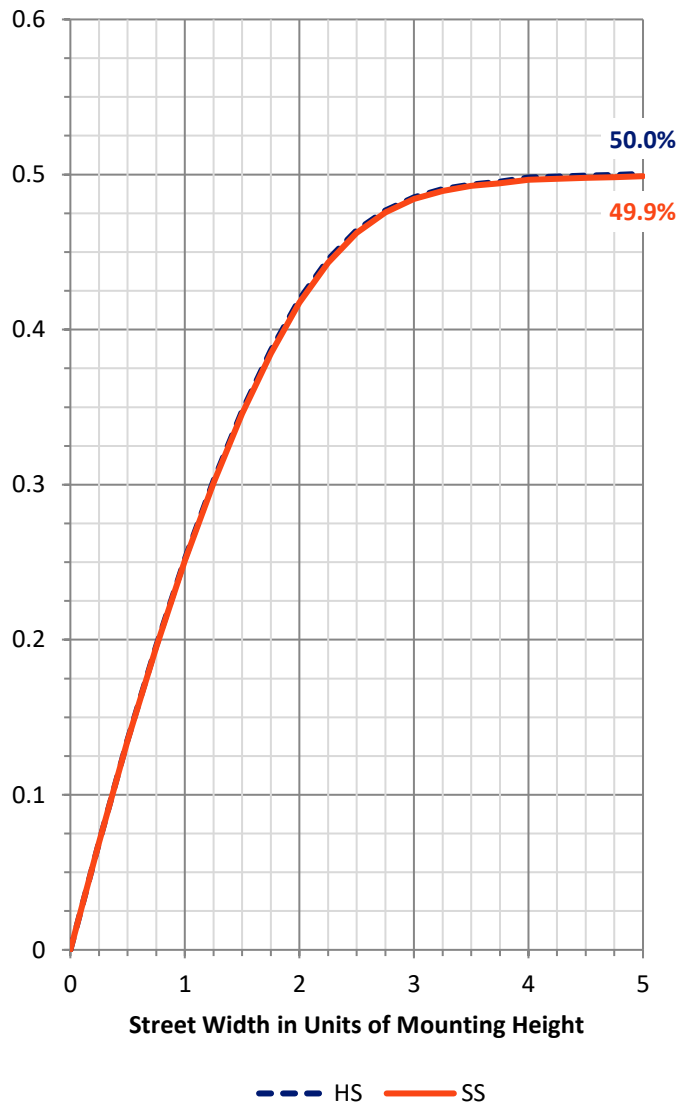
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8901.0	0.0	8901.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8901.0	0.0	8901.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17802.0	0.0	17802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.0
10°-20°	540.6	3.0
20°-30°	920.3	5.2
30°-40°	1459.5	8.2
40°-50°	2375.1	13.3
50°-60°	3916.1	22.0
60°-70°	5749.0	32.3
70°-80°	2542.2	14.3
80°-90°	115.1	0.6
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°	17802.0	100.0
0°-180°	17802.0	100.0

Coefficient of Utilization



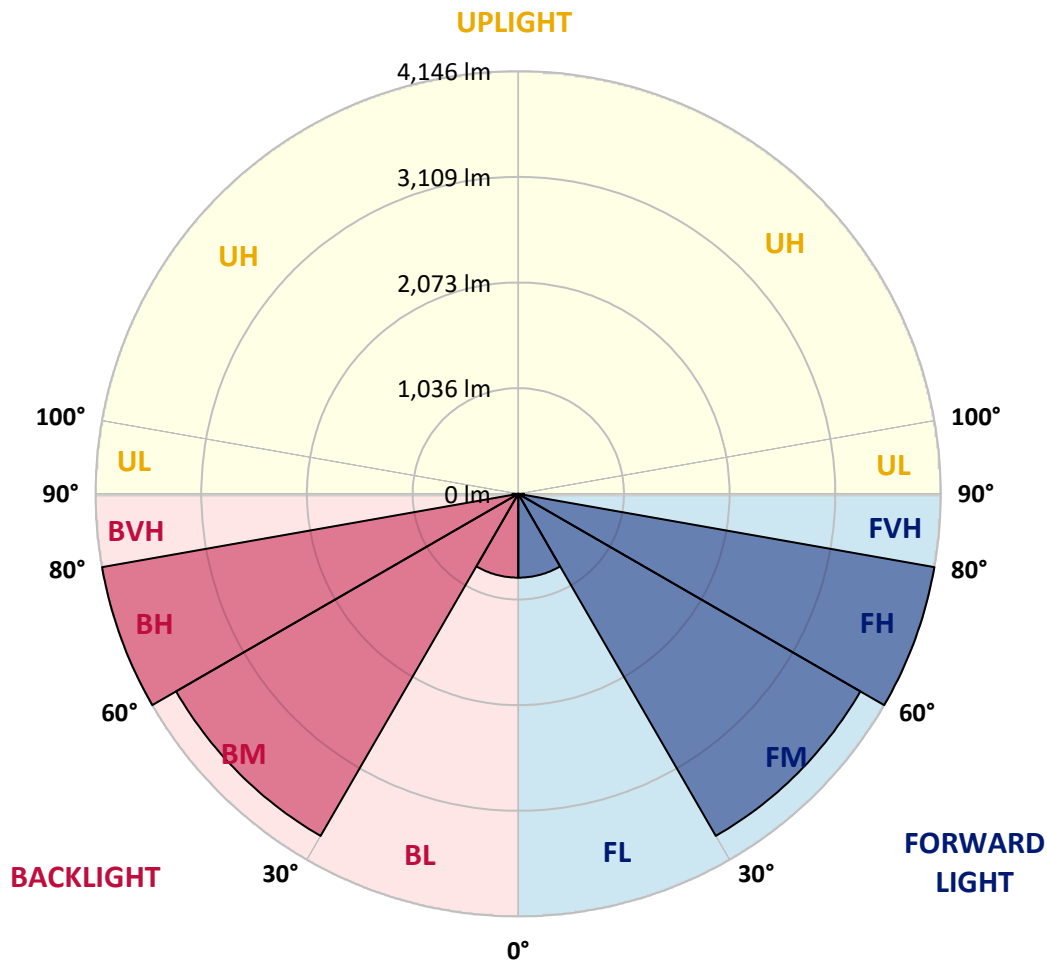
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.5	4.6			
FM (30°-60°)	3875.4	21.8			
FH (60°-80°)	4145.6	23.3			G2/5000
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	822.5	4.6	B2/1000		
BM (30°-60°)	3875.4	21.8	B3/5000		
BH (60°-80°)	4145.6	23.3	B4/5000		G2/5000
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3	1944.3
2.5°	1941.3	1939.5	1943.7	1943.1	1939.5	1940.1	1940.1	1941.9	1941.9	1940.7	1940.7
5°	1934.2	1933.1	1937.8	1937.8	1934.2	1935.4	1936.6	1938.4	1937.8	1936.6	1936.0
7.5°	1925.4	1924.8	1929.5	1929.5	1927.2	1928.3	1927.2	1927.8	1926.6	1925.4	1923.6
10°	1910.7	1911.9	1916.0	1917.2	1917.2	1917.7	1916.6	1913.6	1911.9	1910.1	1908.3
12.5°	1897.1	1896.5	1902.4	1905.4	1910.1	1915.4	1911.9	1903.6	1900.1	1896.5	1895.4
15°	1888.3	1888.9	1894.8	1900.1	1908.3	1919.5	1915.4	1902.4	1895.4	1891.2	1890.1
17.5°	1886.5	1887.7	1895.4	1904.8	1913.6	1926.0	1923.6	1910.7	1898.9	1891.2	1889.5
20°	1890.6	1891.2	1903.0	1916.6	1931.9	1943.7	1938.4	1924.2	1908.3	1896.5	1893.6
22.5°	1898.3	1900.7	1915.4	1936.6	1960.2	1976.1	1969.6	1945.4	1920.7	1906.0	1901.8
25°	1922.5	1923.0	1943.1	1971.9	2000.2	2018.5	2010.8	1976.7	1944.8	1928.3	1923.0
27.5°	1972.5	1974.3	1994.3	2027.9	2052.1	2063.9	2059.1	2031.5	2004.4	1986.7	1988.4
30°	2045.0	2047.4	2069.7	2106.9	2121.6	2124.5	2123.4	2110.4	2085.7	2062.1	2063.9
32.5°	2133.4	2134.6	2164.6	2198.2	2210.0	2212.3	2210.0	2198.2	2168.7	2136.9	2138.7
35°	2247.1	2250.6	2279.5	2311.9	2321.3	2326.0	2321.9	2306.6	2276.0	2244.7	2243.6
37.5°	2387.3	2387.9	2417.9	2451.5	2463.3	2464.5	2459.8	2449.8	2411.5	2383.2	2381.4
40°	2549.9	2552.3	2587.6	2623.6	2628.3	2623.0	2629.5	2623.6	2584.1	2551.7	2557.0
42.5°	2747.9	2753.2	2795.6	2831.0	2817.4	2814.5	2818.6	2820.3	2788.5	2749.1	2745.5
45°	2978.2	2983.0	3036.0	3064.3	3055.4	3036.0	3044.2	3058.4	3014.2	2965.3	2970.0
47.5°	3241.0	3252.8	3309.4	3335.9	3314.1	3287.6	3303.5	3324.7	3272.8	3212.1	3209.2
50°	3533.2	3548.0	3623.4	3660.5	3638.7	3589.8	3616.3	3630.5	3555.6	3477.3	3470.8
52.5°	3844.9	3859.6	3954.5	4031.1	4016.9	3940.9	3978.1	3963.3	3877.3	3771.9	3763.6
55°	4197.8	4203.7	4306.2	4430.0	4444.1	4388.1	4385.8	4361.6	4234.4	4112.4	4106.5
57.5°	4560.8	4564.9	4697.4	4843.6	4910.1	4910.1	4844.1	4792.9	4623.8	4482.4	4467.7
60°	4952.5	4967.3	5114.0	5312.5	5468.1	5514.0	5397.4	5257.7	5073.9	4901.3	4884.2
62.5°	5301.3	5318.4	5542.9	5838.7	6088.5	6255.8	5970.6	5743.2	5408.6	5131.7	5099.3
65°	5345.5	5391.5	5718.5	6254.0	6813.1	7147.2	6600.5	6040.2	5430.4	5045.6	5012.6
67.5°	4881.8	4959.6	5401.5	6235.2	7390.5	8107.5	7002.9	5870.5	5039.2	4613.8	4577.2
70°	3751.2	3864.4	4374.0	5453.9	7291.0	8416.9	6750.7	5139.3	4201.4	3743.6	3692.3
72.5°	2058.0	2104.5	2562.9	3734.7	5845.1	7152.5	5630.7	3800.1	2786.2	2267.1	2181.1
75°	652.8	669.3	902.6	1528.3	3306.4	4737.5	3576.8	1865.3	1026.9	757.1	748.2
77.5°	289.9	291.6	326.4	446.0	1138.9	2400.3	1368.0	507.9	350.0	305.8	315.8
80°	183.2	183.2	202.1	220.9	309.9	697.0	370.0	241.6	206.2	191.5	195.6
82.5°	87.8	97.2	131.4	141.4	170.3	234.5	189.7	157.9	137.9	102.5	95.4
85°	57.7	48.3	83.1	93.7	99.0	112.5	110.2	104.3	90.1	51.3	57.1
87.5°	25.9	24.7	43.0	39.5	37.1	28.3	42.4	52.4	50.7	25.3	25.3
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)