

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: P530179

Luminaire Tested: **GALN-SA5B-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13538 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

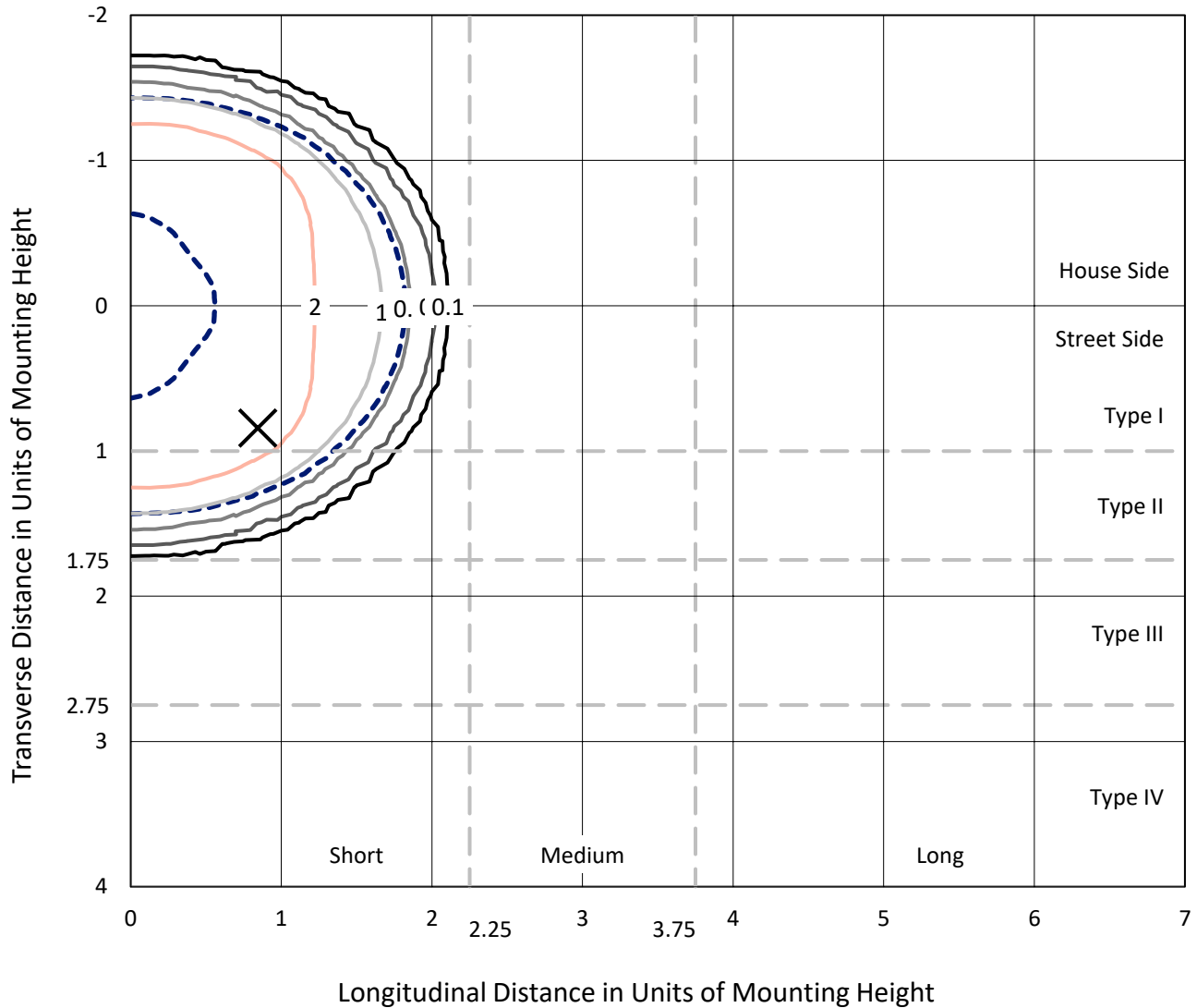
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

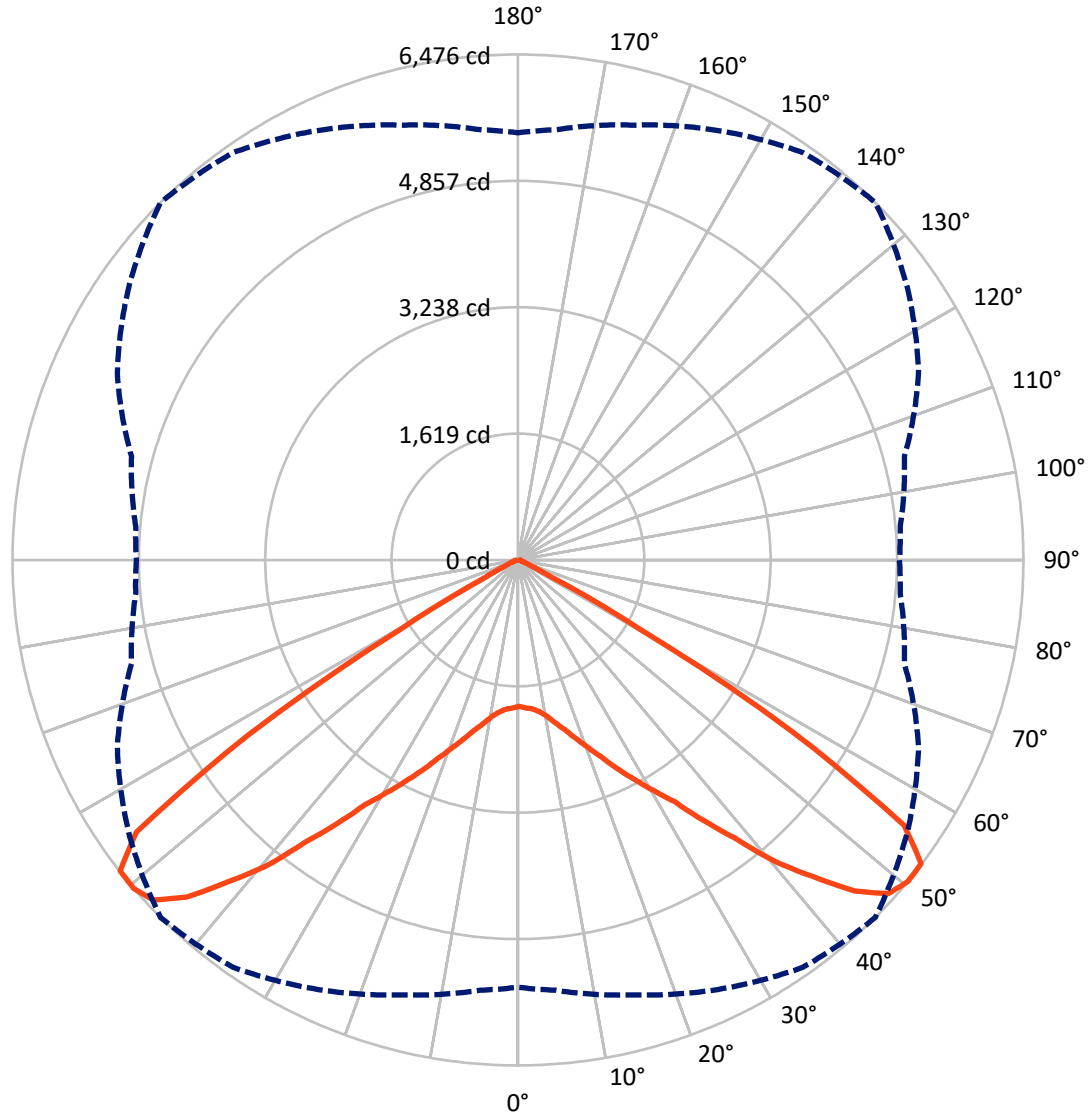
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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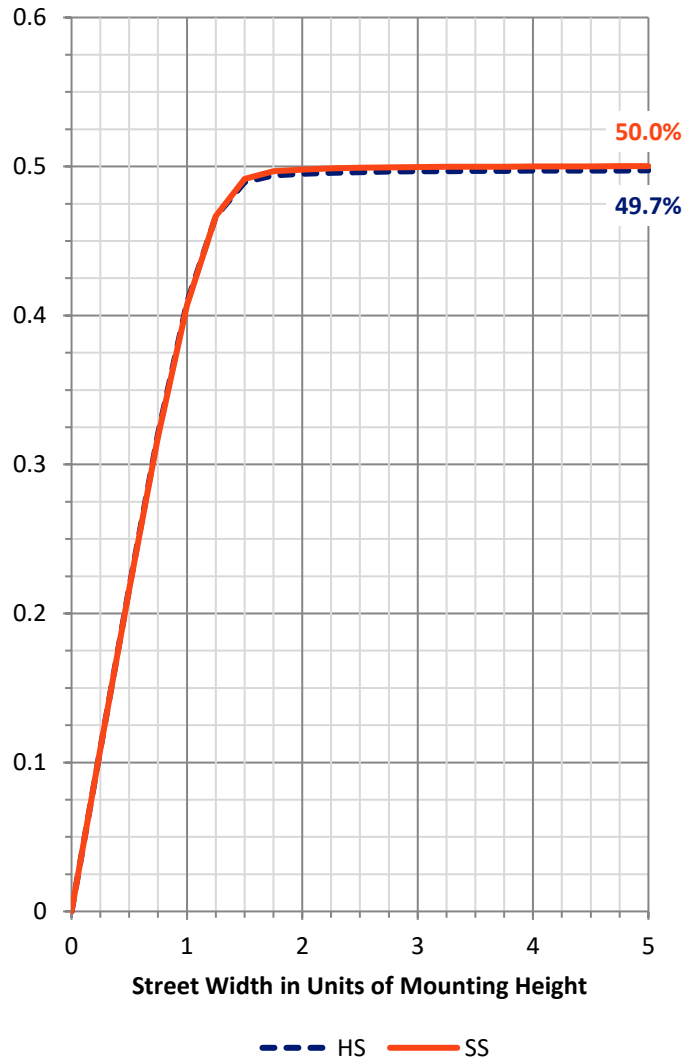
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6769.0	0.0	6769.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6769.0	0.0	6769.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13538.0	0.0	13538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.4
10°-20°	643.6	4.8
20°-30°	1314.4	9.7
30°-40°	2506.5	18.5
40°-50°	4223.9	31.2
50°-60°	4028.2	29.8
60°-70°	562.3	4.2
70°-80°	53.8	0.4
80°-90°	18.6	0.1
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°	13538.0	100.0
0°-180°	13538.0	100.0

Coefficient of Utilization



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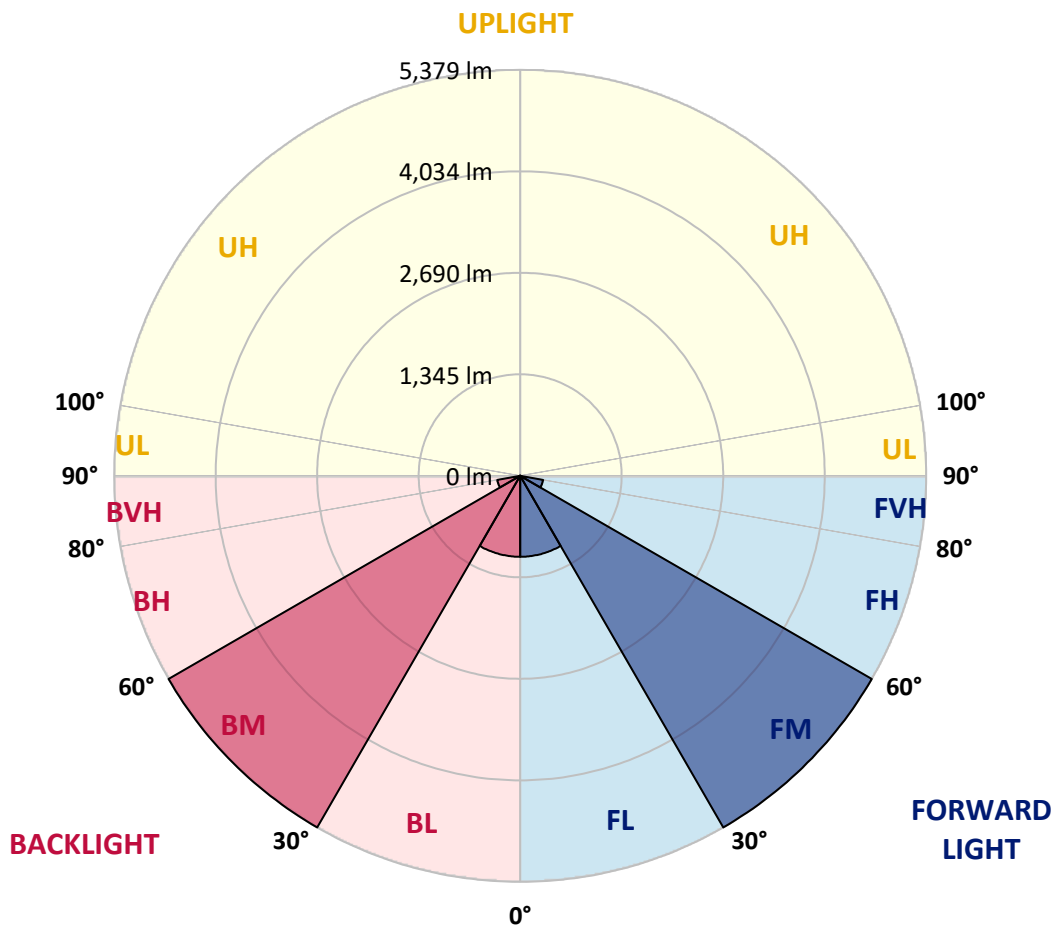
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.3	7.9			
FM (30°-60°)	5379.3	39.7			
FH (60°-80°)	308.0	2.3			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	1072.3	7.9	B3/2500		
BM (30°-60°)	5379.3	39.7	B4/8500		
BH (60°-80°)	308.0	2.3	B1/500		G0/660
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1876.9	1876.9	1876.9	1876.9	1876.9	1876.9	1876.9	1876.9	1876.9	1876.9	1876.9
2.5°	1870.1	1870.1	1867.8	1886.0	1876.9	1897.4	1895.1	1902.0	1908.8	1906.5	1924.7
5°	1854.1	1851.8	1851.8	1872.3	1892.8	1915.6	1936.1	1949.8	1972.6	1972.6	1995.3
7.5°	1870.1	1858.7	1874.6	1883.7	1922.5	1961.2	1995.3	2022.7	2075.1	2093.3	2086.5
10°	1874.6	1888.3	1899.7	1927.0	1974.8	2034.1	2063.7	2132.0	2191.2	2232.2	2241.3
12.5°	1904.2	1924.7	1956.6	2022.7	2066.0	2143.4	2184.4	2250.5	2332.5	2378.0	2409.9
15°	1961.2	1968.0	2009.0	2093.3	2186.7	2257.3	2321.1	2368.9	2448.6	2501.0	2503.3
17.5°	2034.1	2063.7	2120.6	2200.3	2298.3	2403.1	2453.2	2505.6	2535.2	2605.8	2621.7
20°	2179.8	2184.4	2239.1	2343.8	2466.8	2562.5	2599.0	2626.3	2614.9	2687.8	2701.5
22.5°	2316.5	2321.1	2389.4	2530.6	2662.7	2744.7	2760.7	2744.7	2710.6	2763.0	2767.5
25°	2455.5	2496.5	2546.6	2687.8	2851.8	2961.1	2963.4	2920.1	2849.5	2858.6	2881.4
27.5°	2671.8	2701.5	2753.8	2883.7	3063.6	3186.6	3166.1	3113.7	3022.6	3029.5	3022.6
30°	2924.7	2952.0	2995.3	3161.6	3293.7	3428.1	3457.7	3407.6	3270.9	3241.3	3275.5
32.5°	3229.9	3268.6	3348.3	3501.0	3612.6	3694.6	3715.1	3696.8	3569.3	3557.9	3580.7
35°	3601.2	3653.6	3726.5	3860.8	3952.0	4100.0	4100.0	4038.5	3922.3	3936.0	3933.7
37.5°	3993.0	4070.4	4184.3	4321.0	4444.0	4523.7	4498.6	4446.2	4330.1	4300.5	4330.1
40°	4485.0	4523.7	4667.2	4844.8	4995.2	5086.3	4979.2	4865.3	4587.5	4630.7	4710.5
42.5°	4933.7	4995.2	5104.5	5300.4	5471.2	5546.4	5418.9	5193.3	4858.5	4824.3	4883.6
45°	5316.3	5382.4	5525.9	5806.1	5986.0	6052.1	5769.6	5405.2	5022.5	4936.0	4961.0
47.5°	5571.5	5605.6	5806.1	6072.6	6236.6	6386.9	5981.5	5551.0	5100.0	4936.0	4926.8
50°	5473.5	5532.7	5767.4	6070.3	6368.7	6475.7	6088.5	5662.6	5125.0	4915.5	4888.1
52.5°	4860.8	4963.3	5225.2	5633.0	6084.0	6466.6	6236.6	5626.1	5115.9	4936.0	4977.0
55°	3382.5	3384.8	3703.7	4305.0	5102.2	6004.2	6020.2	5667.1	5175.1	5063.5	5065.8
57.5°	1359.8	1428.2	1671.9	2275.5	3011.2	4122.8	4901.8	5257.1	5182.0	5154.6	5225.2
60°	343.9	346.2	421.4	642.3	1059.2	1767.6	2567.1	3473.6	3999.8	4179.7	4204.8
62.5°	175.4	177.7	195.9	227.8	289.3	473.8	842.8	1337.1	1902.0	2189.0	2264.1
65°	143.5	143.5	154.9	170.8	173.1	182.2	218.7	312.1	453.3	514.8	521.6
67.5°	109.3	109.3	118.4	127.6	132.1	129.8	125.3	129.8	157.2	150.3	145.8
70°	68.3	70.6	75.2	84.3	88.8	91.1	93.4	97.9	111.6	116.2	111.6
72.5°	41.0	41.0	43.3	50.1	56.9	61.5	68.3	72.9	79.7	91.1	88.8
75°	18.2	18.2	22.8	29.6	36.4	43.3	50.1	56.9	61.5	68.3	70.6
77.5°	4.6	6.8	11.4	20.5	27.3	36.4	45.6	52.4	56.9	56.9	54.7
80°	2.3	2.3	9.1	15.9	29.6	38.7	50.1	54.7	61.5	56.9	50.1
82.5°	2.3	2.3	9.1	15.9	27.3	38.7	52.4	59.2	63.8	56.9	47.8
85°	0.0	2.3	6.8	13.7	22.8	27.3	22.8	15.9	9.1	9.1	6.8
87.5°	0.0	0.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)