

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: P529237

Luminaire Tested: **GALN-SA4B-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11367 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

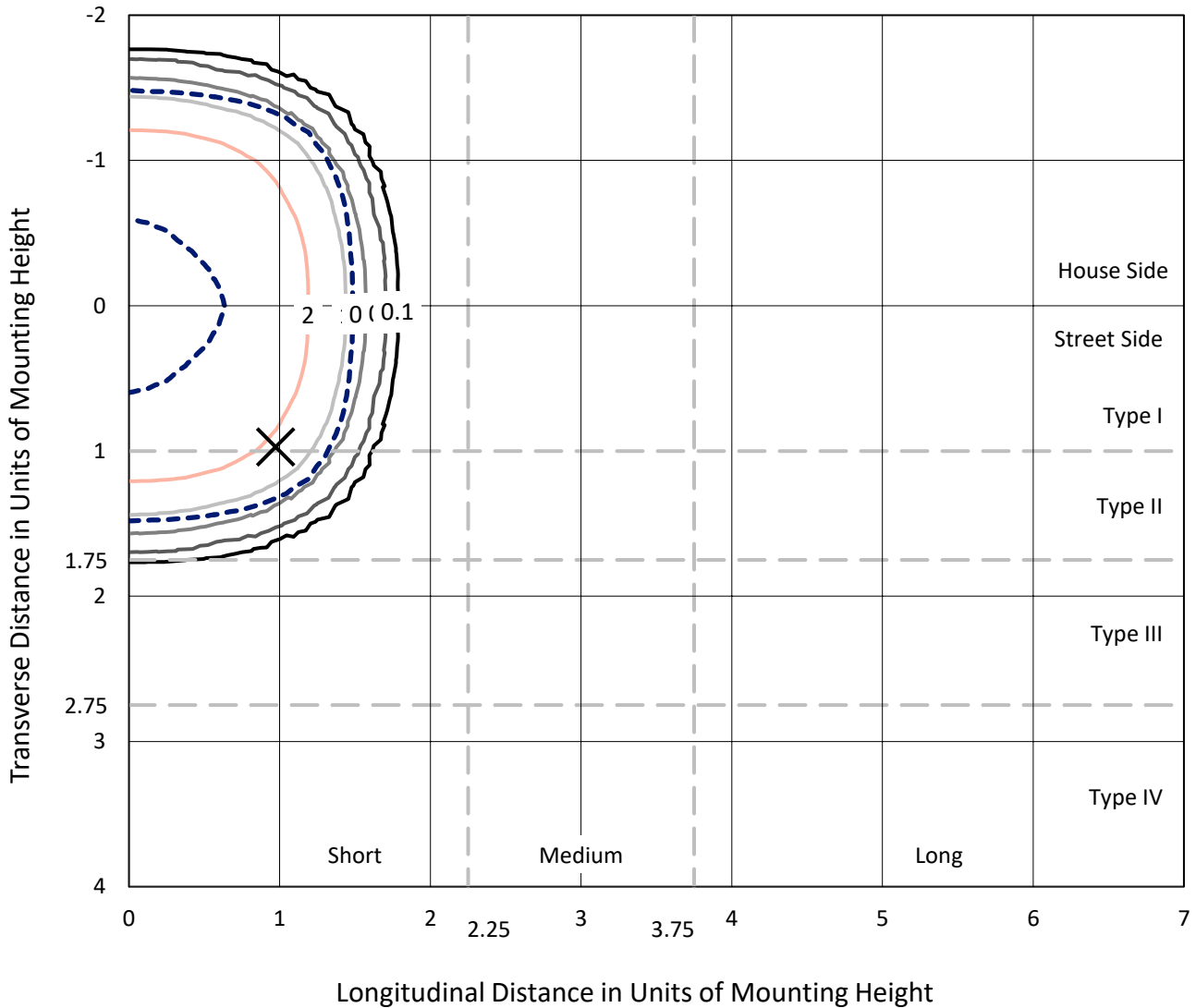
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

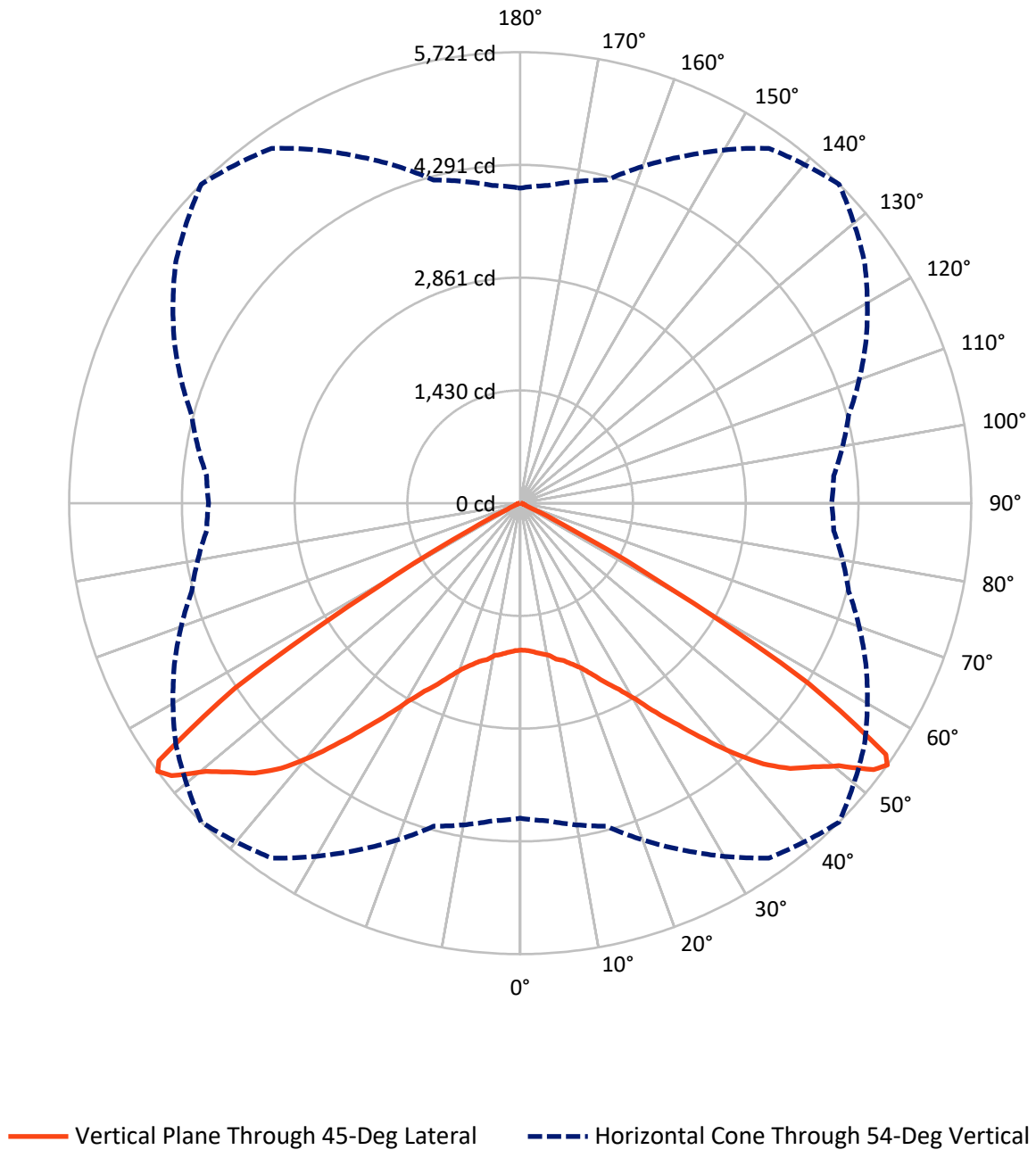
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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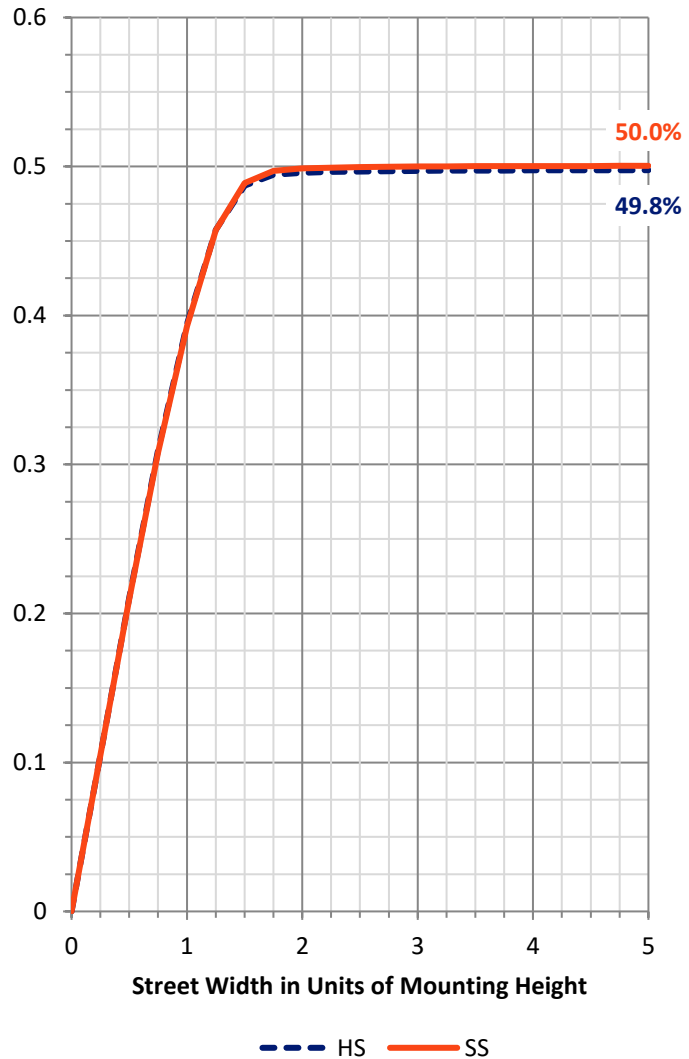
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5683.5	0.0	5683.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5683.5	0.0	5683.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11367.0	0.0	11367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	1.6
10°-20°	590.8	5.2
20°-30°	1157.9	10.2
30°-40°	2082.1	18.3
40°-50°	3564.1	31.4
50°-60°	3448.6	30.3
60°-70°	295.2	2.6
70°-80°	35.0	0.3
80°-90°	11.0	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°	11367.0	100.0
0°-180°	11367.0	100.0

Coefficient of Utilization

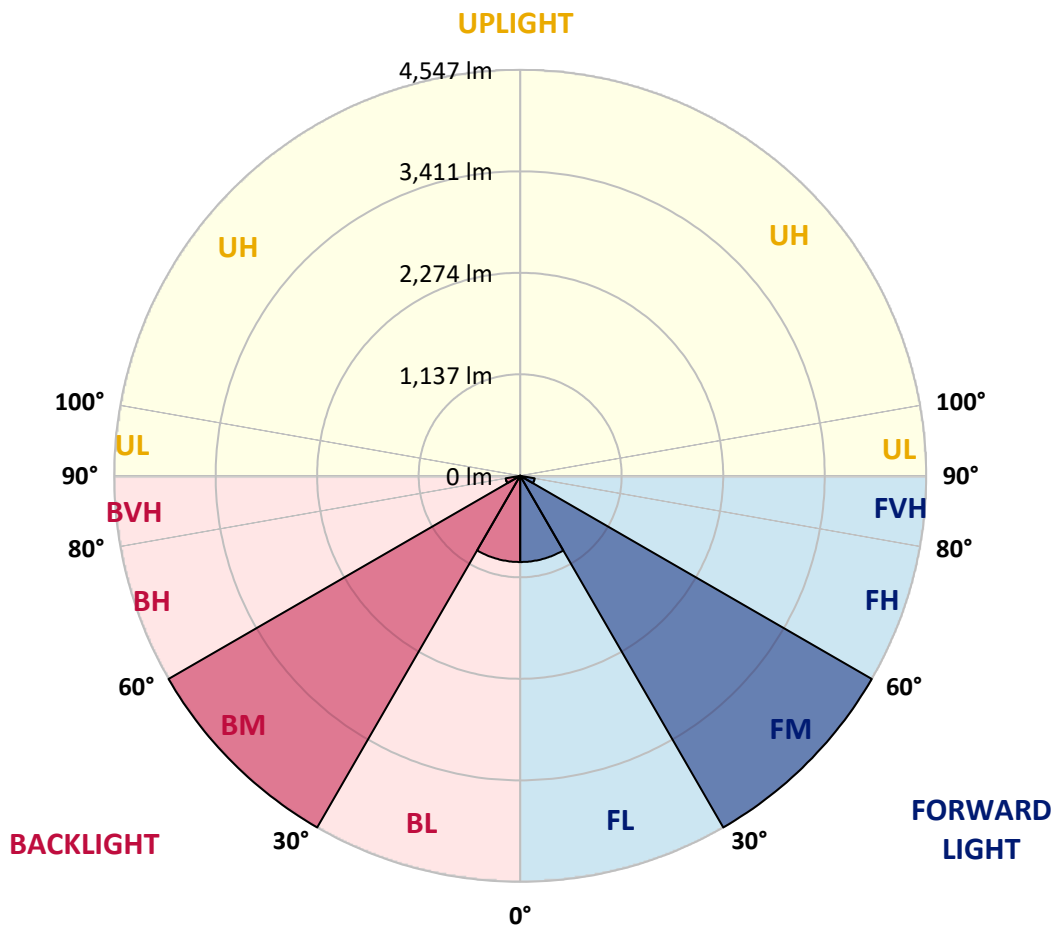


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.5	8.5			
FM (30°-60°)	4547.4	40.0			
FH (60°-80°)	165.1	1.5			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	965.5	8.5	B2/1000		
BM (30°-60°)	4547.4	40.0	B3/5000		
BH (60°-80°)	165.1	1.5	B1/500		G0/660
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8
2.5°	1872.8	1883.6	1876.4	1881.8	1881.8	1872.8	1878.2	1856.6	1871.0	1860.2	1862.0
5°	1901.7	1899.8	1899.8	1901.7	1894.4	1898.0	1890.8	1883.6	1878.2	1871.0	1892.6
7.5°	1937.7	1937.7	1925.1	1928.7	1925.1	1930.5	1916.1	1901.7	1896.2	1890.8	1887.2
10°	1971.9	1968.3	1962.9	1979.1	1966.5	1959.3	1952.1	1943.1	1923.3	1916.1	1908.9
12.5°	2022.3	2020.5	2013.3	2029.5	2022.3	2029.5	2002.5	1979.1	1975.5	1952.1	1964.7
15°	2081.7	2097.9	2085.3	2085.3	2081.7	2072.7	2061.9	2051.1	2018.7	2009.7	2011.5
17.5°	2159.2	2153.8	2155.6	2155.6	2173.6	2150.2	2128.6	2101.5	2085.3	2079.9	2061.9
20°	2233.0	2240.2	2238.4	2251.0	2261.8	2236.6	2213.2	2209.6	2164.6	2171.8	2146.6
22.5°	2362.7	2357.3	2366.3	2375.3	2368.1	2364.5	2342.8	2315.8	2276.2	2258.2	2254.6
25°	2499.5	2490.5	2474.3	2495.9	2506.7	2522.9	2481.5	2467.1	2405.9	2378.9	2380.7
27.5°	2616.6	2629.2	2647.2	2656.2	2683.2	2677.8	2649.0	2602.2	2555.3	2524.7	2504.9
30°	2776.8	2784.0	2814.7	2827.3	2874.1	2886.7	2841.7	2787.6	2704.8	2665.2	2641.8
32.5°	2924.5	2974.9	2973.1	3036.2	3111.8	3164.0	3083.0	3000.1	2917.3	2870.5	2829.1
35°	3164.0	3155.0	3207.2	3273.9	3396.3	3455.7	3367.5	3272.1	3146.0	3070.4	3038.0
37.5°	3387.3	3390.9	3461.1	3567.4	3707.9	3799.7	3722.3	3565.6	3435.9	3338.7	3293.7
40°	3711.5	3718.7	3790.7	3911.3	4069.8	4168.9	4078.8	3920.4	3747.5	3671.8	3671.8
42.5°	4091.4	4122.0	4168.9	4273.3	4415.6	4525.4	4444.4	4320.1	4145.5	4048.2	4062.6
45°	4482.2	4496.6	4527.2	4682.1	4748.7	4802.7	4727.1	4669.5	4552.4	4433.6	4413.8
47.5°	4847.8	4853.2	4943.2	4991.8	5044.1	4999.0	5047.7	4972.0	4840.6	4725.3	4701.9
50°	5009.8	5000.8	5128.7	5276.4	5316.0	5236.7	5195.3	5144.9	4945.0	4806.4	4745.1
52.5°	4538.0	4590.3	4828.0	5238.5	5548.3	5614.9	5373.6	5141.3	4768.5	4498.4	4457.0
54°	3997.8	4046.4	4242.7	4851.4	5496.1	5721.2	5332.2	4838.8	4312.9	3992.4	3951.0
55°	3462.9	3408.9	3765.5	4386.8	5251.1	5627.5	5168.3	4448.0	3846.5	3553.0	3495.4
57.5°	1874.6	1883.6	2184.4	2771.4	3689.9	4314.7	3810.5	3009.1	2272.6	1943.1	1914.3
60°	594.3	608.7	740.1	1120.1	1763.0	2105.1	1804.4	1208.3	835.6	669.9	642.9
62.5°	185.5	192.7	210.7	313.3	482.6	689.7	540.2	324.1	241.3	221.5	225.1
65°	113.5	113.5	115.3	122.5	144.1	167.5	162.1	142.3	136.9	133.3	131.5
67.5°	73.8	72.0	75.6	81.0	84.6	86.4	91.8	97.2	95.4	91.8	91.8
70°	45.0	43.2	46.8	54.0	55.8	59.4	64.8	72.0	70.2	66.6	68.4
72.5°	25.2	25.2	27.0	32.4	37.8	41.4	46.8	52.2	54.0	52.2	52.2
75°	9.0	10.8	14.4	19.8	23.4	28.8	34.2	39.6	45.0	41.4	39.6
77.5°	3.6	3.6	7.2	12.6	18.0	23.4	32.4	37.8	41.4	37.8	34.2
80°	1.8	1.8	5.4	10.8	16.2	21.6	27.0	32.4	34.2	30.6	27.0
82.5°	1.8	1.8	5.4	10.8	16.2	19.8	28.8	32.4	36.0	32.4	27.0
85°	0.0	1.8	5.4	10.8	14.4	16.2	16.2	10.8	9.0	5.4	5.4
87.5°	0.0	0.0	1.8	0.0	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)