

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: P529113

Luminaire Tested: **GALN-SA4B-730-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529113
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-SA4B-730-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 13248 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

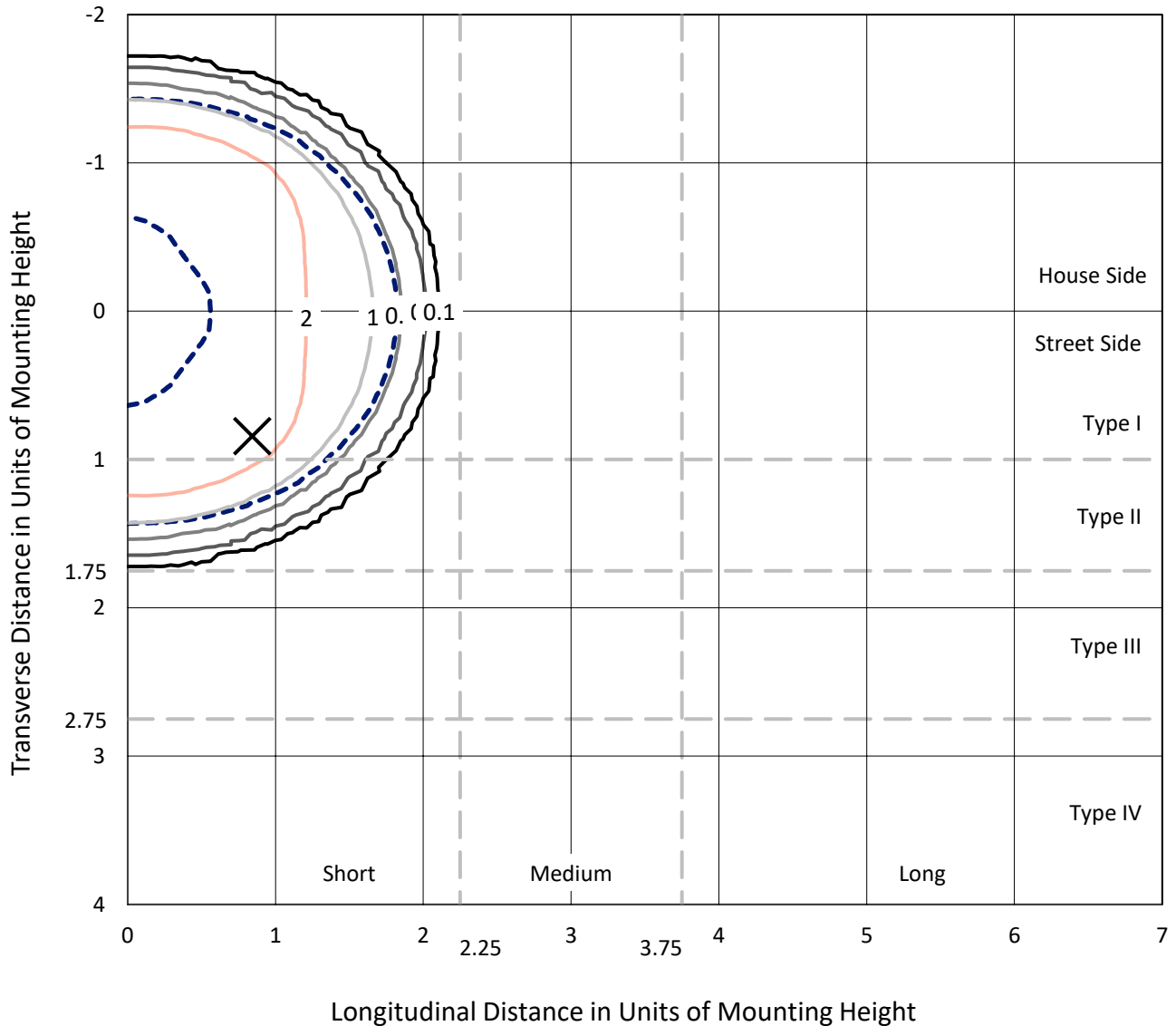
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

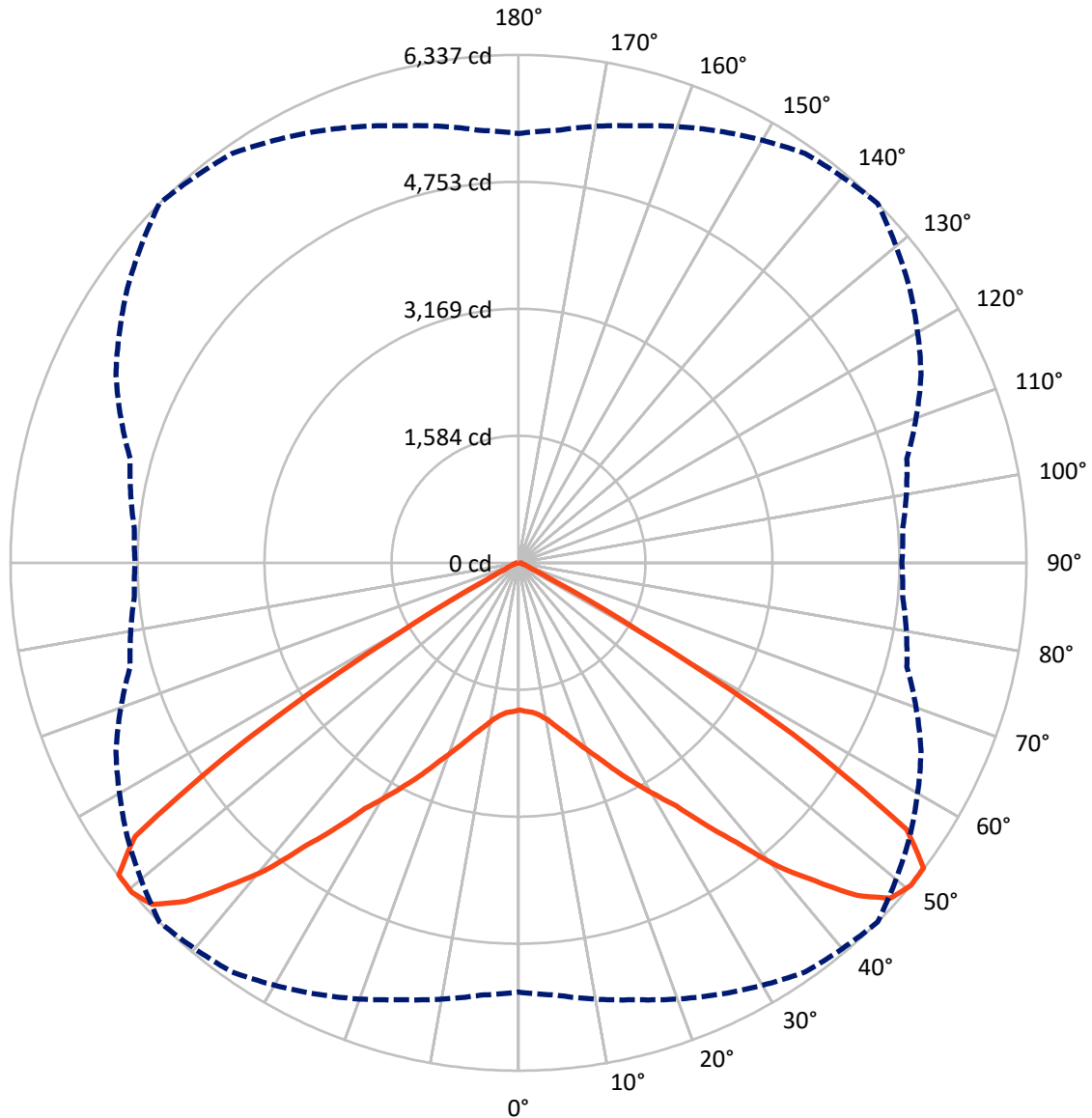
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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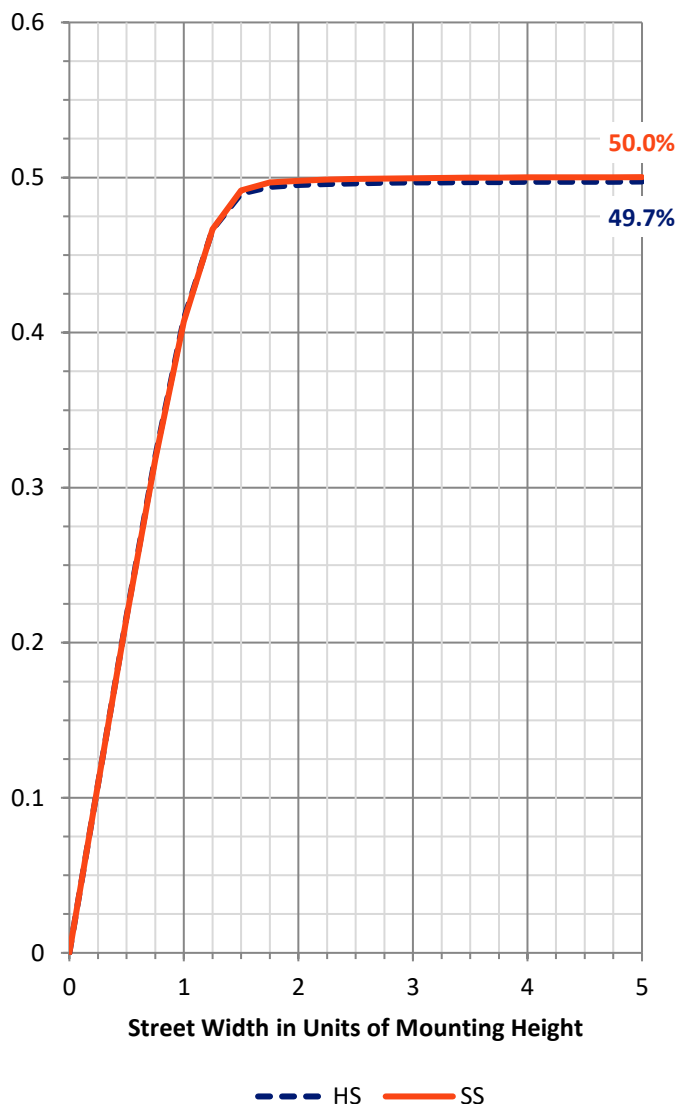
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6624.0	0.0	6624.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6624.0	0.0	6624.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13248.0	0.0	13248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.4
10°-20°	629.8	4.8
20°-30°	1286.2	9.7
30°-40°	2452.8	18.5
40°-50°	4133.4	31.2
50°-60°	3941.9	29.8
60°-70°	550.3	4.2
70°-80°	52.6	0.4
80°-90°	18.2	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°	13248.0	100.0
0°-180°	13248.0	100.0

Coefficient of Utilization

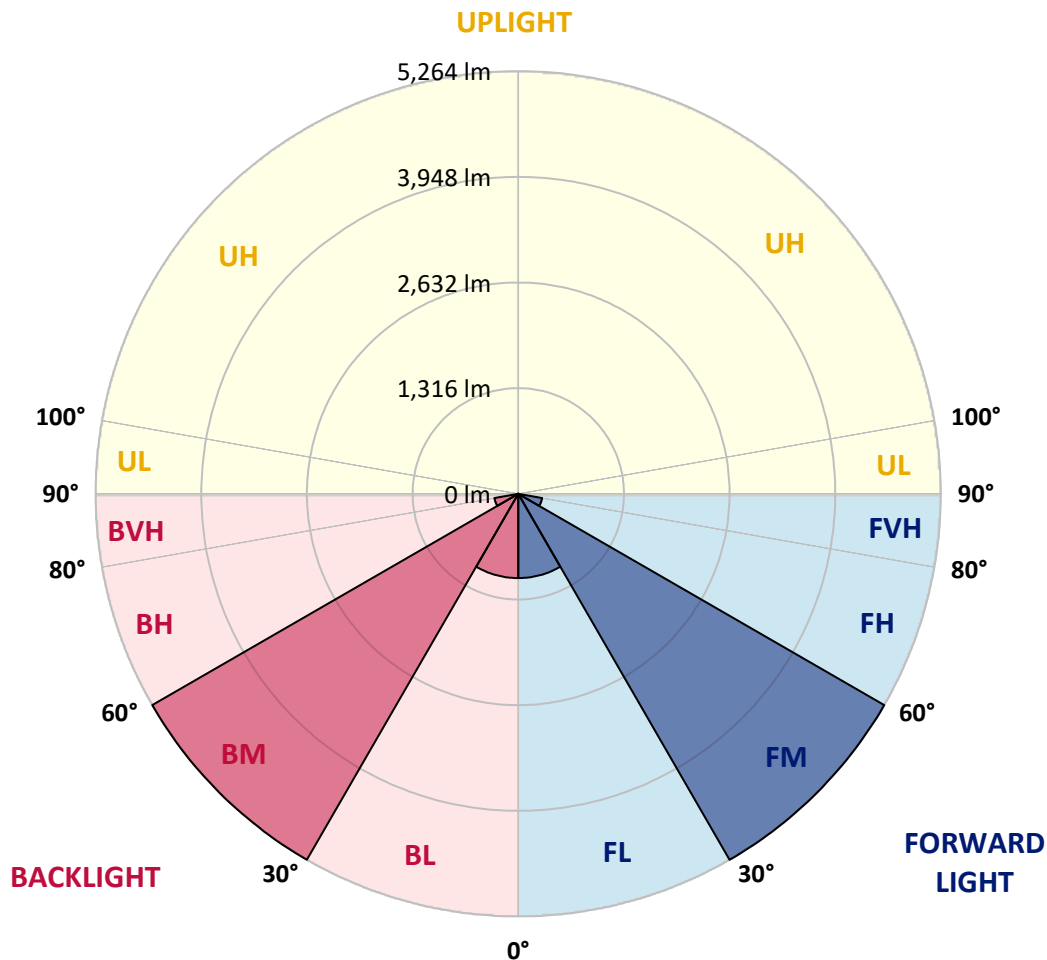


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.4	7.9			
FM (30°-60°)	5264.1	39.7			
FH (60°-80°)	301.5	2.3			G0/660
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	1049.4	7.9	B3/2500		
BM (30°-60°)	5264.1	39.7	B4/8500		
BH (60°-80°)	301.5	2.3	B1/500		G0/660
BVH (80°-90°)	9.1	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°	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1830.0	1830.0	1827.8	1845.6	1836.7	1856.8	1854.5	1861.2	1867.9	1865.7	1883.5
5°	1814.4	1812.2	1812.2	1832.2	1852.3	1874.6	1894.6	1908.0	1930.3	1930.3	1952.6
7.5°	1830.0	1818.9	1834.5	1843.4	1881.3	1919.2	1952.6	1979.3	2030.6	2048.4	2041.8
10°	1834.5	1847.8	1859.0	1885.7	1932.5	1990.5	2019.5	2086.3	2144.3	2184.4	2193.3
12.5°	1863.4	1883.5	1914.7	1979.3	2021.7	2097.5	2137.6	2202.2	2282.5	2327.1	2358.3
15°	1919.2	1925.8	1966.0	2048.4	2139.8	2208.9	2271.3	2318.2	2396.2	2447.4	2449.7
17.5°	1990.5	2019.5	2075.2	2153.2	2249.1	2351.6	2400.6	2451.9	2480.9	2550.0	2565.6
20°	2133.1	2137.6	2191.1	2293.6	2414.0	2507.6	2543.3	2570.0	2558.9	2630.2	2643.6
22.5°	2266.9	2271.3	2338.2	2476.4	2605.7	2685.9	2701.5	2685.9	2652.5	2703.8	2708.2
25°	2402.9	2443.0	2492.0	2630.2	2790.7	2897.7	2899.9	2857.6	2788.5	2797.4	2819.7
27.5°	2614.6	2643.6	2694.9	2821.9	2998.0	3118.4	3098.3	3047.0	2957.9	2964.6	2957.9
30°	2862.0	2888.8	2931.1	3093.8	3223.1	3354.6	3383.6	3334.6	3200.8	3171.9	3205.3
32.5°	3160.7	3198.6	3276.6	3426.0	3535.2	3615.4	3635.5	3617.7	3492.8	3481.7	3504.0
35°	3524.0	3575.3	3646.6	3778.1	3867.3	4012.2	4012.2	3952.0	3838.3	3851.7	3849.5
37.5°	3907.4	3983.2	4094.7	4228.4	4348.8	4426.8	4402.3	4351.0	4237.3	4208.3	4237.3
40°	4388.9	4426.8	4567.2	4741.1	4888.2	4977.3	4872.6	4761.1	4489.2	4531.5	4609.6
42.5°	4828.0	4888.2	4995.2	5186.9	5354.0	5427.6	5302.8	5082.1	4754.4	4721.0	4779.0
45°	5202.5	5267.1	5407.5	5681.7	5857.8	5922.4	5646.0	5289.4	4914.9	4830.2	4854.7
47.5°	5452.1	5485.5	5681.7	5942.5	6103.0	6250.1	5853.3	5432.1	4990.7	4830.2	4821.3
50°	5356.3	5414.2	5643.8	5940.3	6232.3	6337.0	5958.1	5541.3	5015.2	4810.2	4783.4
52.5°	4756.7	4857.0	5113.3	5512.3	5953.6	6328.1	6103.0	5505.6	5006.3	4830.2	4870.3
55°	3310.1	3312.3	3624.3	4212.8	4992.9	5875.6	5891.2	5545.7	5064.3	4955.0	4957.3
57.5°	1330.7	1397.6	1636.1	2226.8	2946.7	4034.5	4796.8	5144.5	5071.0	5044.2	5113.3
60°	336.6	338.8	412.4	628.6	1036.5	1729.7	2512.1	3399.2	3914.1	4090.2	4114.7
62.5°	171.6	173.9	191.7	222.9	283.1	463.6	824.7	1308.4	1861.2	2142.1	2215.6
65°	140.4	140.4	151.6	167.2	169.4	178.3	214.0	305.4	443.6	503.8	510.4
67.5°	107.0	107.0	115.9	124.8	129.3	127.1	122.6	127.1	153.8	147.1	142.7
70°	66.9	69.1	73.6	82.5	86.9	89.2	91.4	95.8	109.2	113.7	109.2
72.5°	40.1	40.1	42.4	49.0	55.7	60.2	66.9	71.3	78.0	89.2	86.9
75°	17.8	17.8	22.3	29.0	35.7	42.4	49.0	55.7	60.2	66.9	69.1
77.5°	4.5	6.7	11.1	20.1	26.7	35.7	44.6	51.3	55.7	55.7	53.5
80°	2.2	2.2	8.9	15.6	29.0	37.9	49.0	53.5	60.2	55.7	49.0
82.5°	2.2	2.2	8.9	15.6	26.7	37.9	51.3	58.0	62.4	55.7	46.8
85°	0.0	2.2	6.7	13.4	22.3	26.7	22.3	15.6	8.9	8.9	6.7
87.5°	0.0	0.0	2.2	2.2	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)