

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: P652263

Luminaire Tested: **GALN-SA3B-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14908.4 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

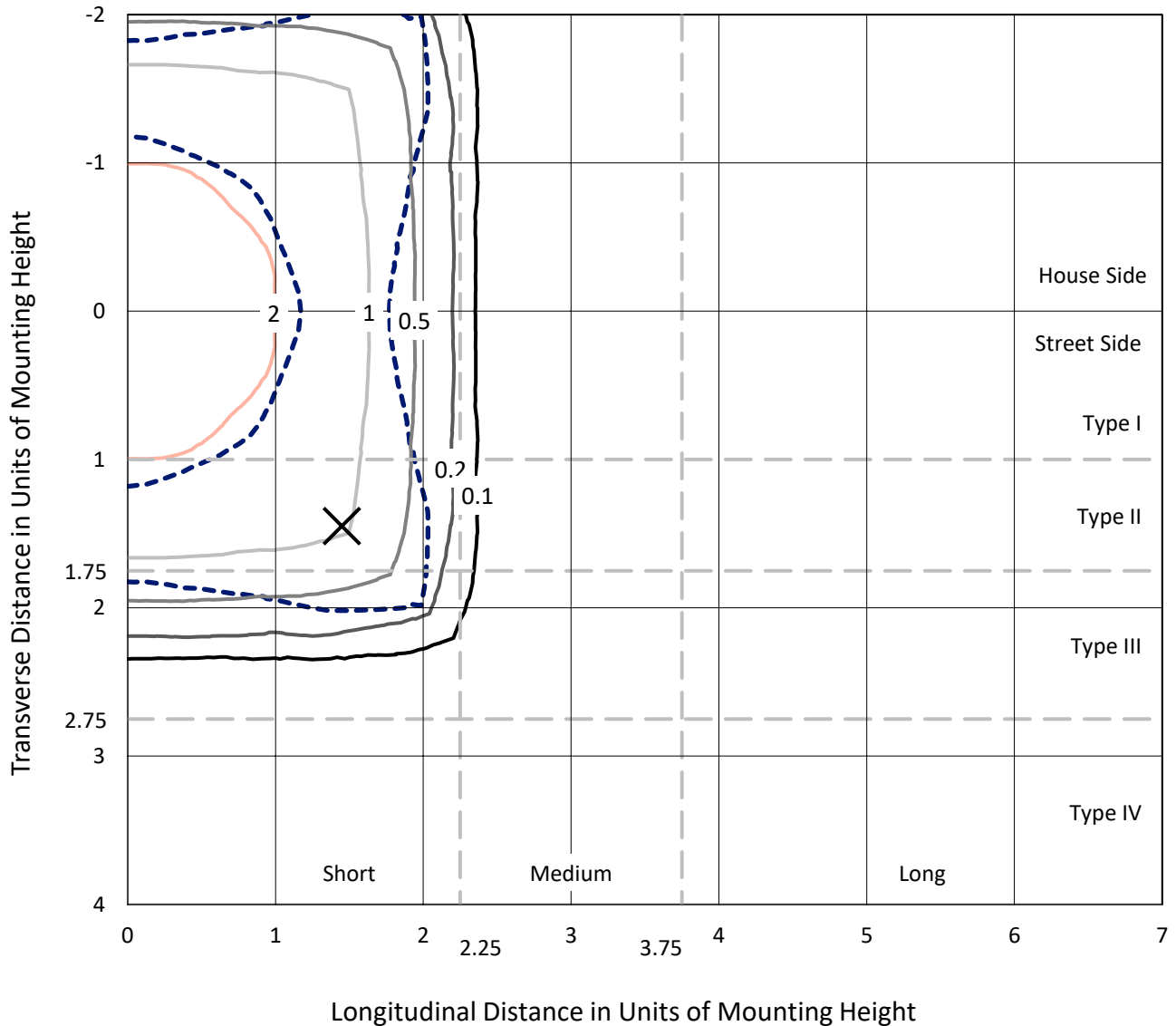
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

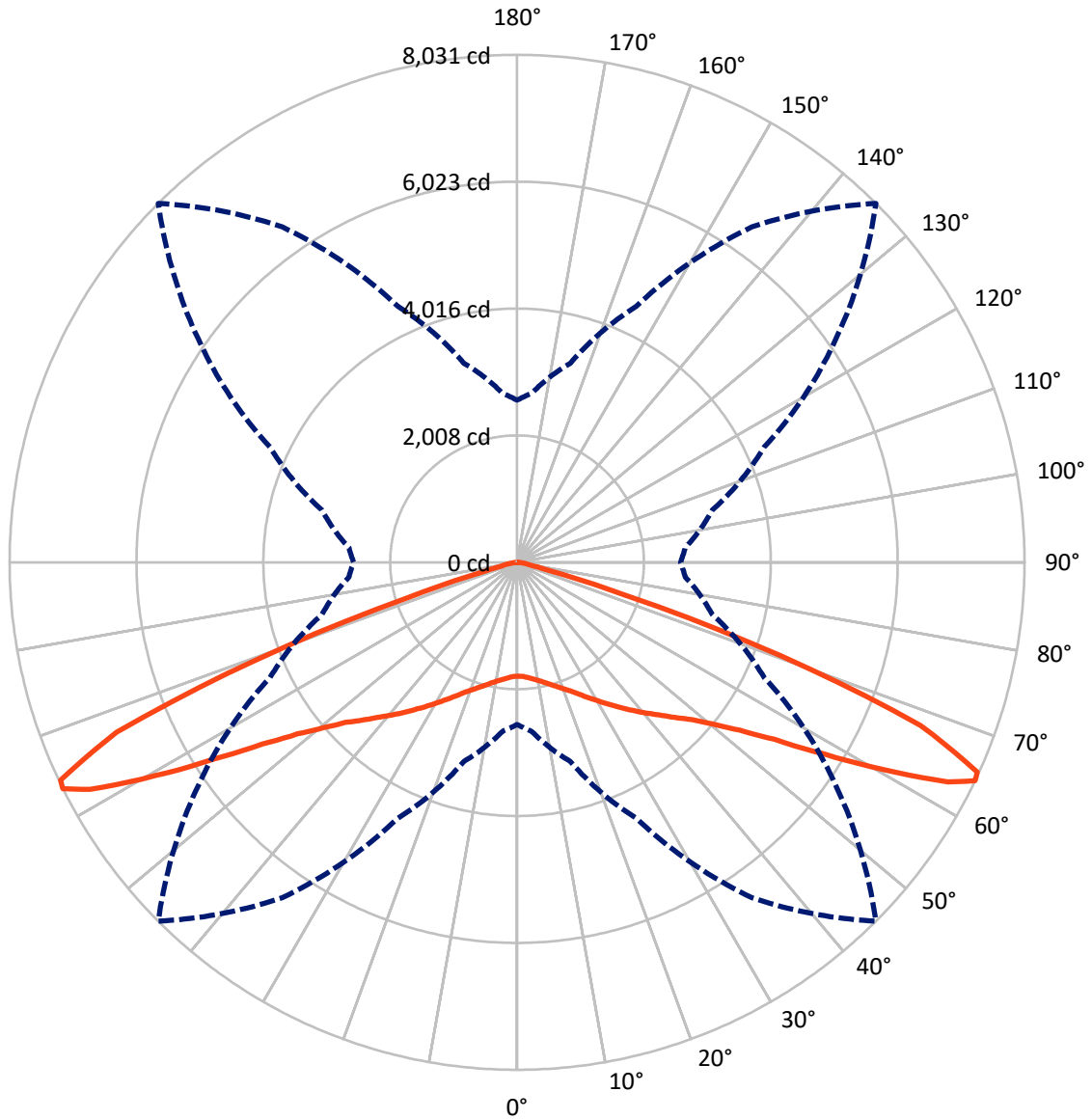
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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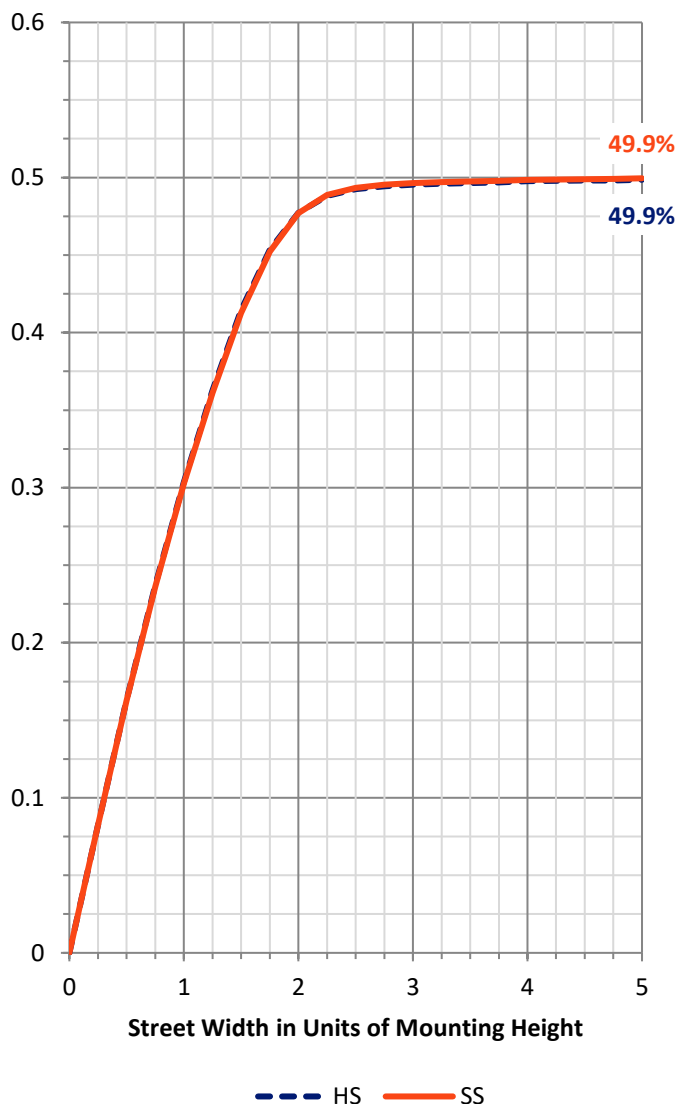
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7454.2	0.0	7454.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7454.2	0.0	7454.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	14908.4	0.0	14908.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.2
10°-20°	571.0	3.8
20°-30°	1079.1	7.2
30°-40°	1787.1	12.0
40°-50°	2789.9	18.7
50°-60°	4313.1	28.9
60°-70°	3719.2	24.9
70°-80°	421.5	2.8
80°-90°	50.5	0.3
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°	14908.4	100.0
0°-180°	14908.4	100.0

Coefficient of Utilization



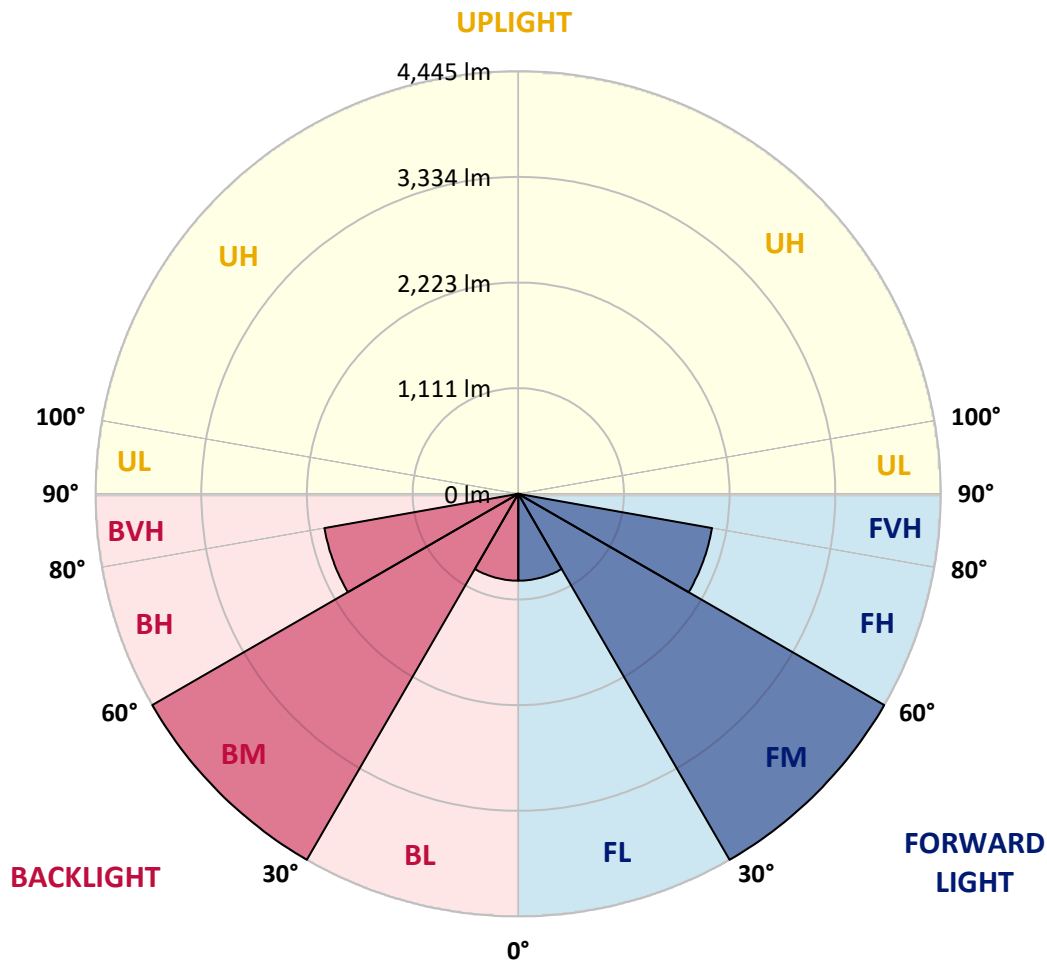
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.6	6.1			
FM (30°-60°)	4445.1	29.8			
FH (60°-80°)	2070.3	13.9			G2/5000
FVH (80°-90°)	25.2	0.2			G1/100
BL (0°-30°)	913.6	6.1	B2/1000		
BM (30°-60°)	4445.1	29.8	B3/5000		
BH (60°-80°)	2070.3	13.9	B3/2500		G2/5000
BVH (80°-90°)	25.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9
2.5°	1809.1	1813.0	1809.8	1809.1	1808.2	1808.2	1808.2	1809.1	1812.2	1814.5	1813.0
5°	1832.0	1835.1	1833.5	1832.7	1832.0	1832.7	1831.1	1830.4	1832.7	1832.7	1832.0
7.5°	1860.4	1864.3	1862.7	1864.3	1865.1	1865.9	1862.0	1858.8	1858.0	1860.4	1858.8
10°	1899.1	1902.2	1903.0	1903.8	1905.4	1904.6	1899.8	1894.4	1893.5	1892.8	1891.9
12.5°	1942.5	1944.8	1945.7	1948.8	1951.2	1952.0	1946.4	1941.7	1933.8	1935.4	1932.2
15°	1991.4	1996.2	1995.4	2000.2	2006.5	2008.1	2002.5	1994.6	1987.5	1983.6	1981.1
17.5°	2051.5	2054.6	2053.0	2057.8	2065.7	2069.6	2064.9	2054.6	2047.5	2038.8	2034.0
20°	2122.5	2128.1	2129.7	2129.7	2136.7	2140.7	2133.6	2130.4	2119.4	2113.0	2109.1
22.5°	2203.1	2205.4	2210.1	2214.9	2222.0	2220.4	2218.1	2213.3	2203.1	2197.5	2191.2
25°	2293.9	2296.3	2308.1	2318.4	2320.7	2319.1	2315.9	2313.6	2304.2	2291.5	2286.8
27.5°	2399.7	2404.4	2420.2	2429.6	2429.6	2430.5	2424.2	2432.1	2411.5	2396.5	2394.9
30°	2532.3	2535.5	2548.9	2558.4	2553.7	2549.7	2548.1	2556.1	2533.9	2507.1	2500.7
32.5°	2663.4	2674.5	2686.3	2706.8	2690.3	2683.1	2681.6	2687.1	2661.8	2631.8	2623.2
35°	2804.0	2811.9	2834.0	2851.3	2836.4	2819.8	2826.9	2844.3	2814.2	2774.0	2772.4
37.5°	2959.6	2966.6	2995.1	3013.2	3002.2	2973.8	2985.5	3006.2	2976.1	2926.3	2916.1
40°	3121.4	3136.4	3171.9	3190.9	3172.8	3134.8	3156.9	3179.1	3152.2	3094.5	3071.7
42.5°	3303.0	3326.7	3378.0	3387.5	3352.7	3301.4	3340.1	3375.7	3356.7	3290.4	3281.7
45°	3515.5	3529.7	3592.8	3613.4	3565.2	3501.3	3549.4	3614.1	3599.9	3523.3	3506.7
47.5°	3753.1	3766.5	3832.1	3862.9	3802.1	3716.0	3802.8	3887.4	3878.7	3796.5	3788.6
50°	4034.2	4037.4	4128.2	4163.0	4102.1	4027.9	4105.3	4210.3	4175.6	4070.5	4068.9
52.5°	4342.2	4346.1	4460.6	4527.7	4493.8	4410.0	4501.7	4565.6	4477.2	4339.8	4329.6
55°	4609.1	4628.8	4785.1	4963.6	5010.2	4949.4	4977.0	4947.0	4729.1	4536.4	4506.4
57.5°	4718.0	4756.7	4994.4	5327.7	5630.8	5720.8	5507.6	5221.9	4829.4	4557.0	4527.7
60°	4451.9	4493.8	4862.5	5495.0	6268.9	6659.7	6060.4	5268.4	4601.2	4218.2	4172.4
62.5°	3565.2	3577.0	4119.5	5101.0	6640.8	7653.1	6293.4	4871.2	3937.1	3416.7	3398.6
64°	2565.5	2687.1	3262.0	4472.4	6478.1	8031.3	6159.1	4314.5	3198.0	2671.4	2586.0
65°	1918.8	1952.0	2629.5	3819.4	6191.4	8002.9	5898.5	3782.3	2648.4	2044.4	1949.6
67.5°	724.9	728.8	970.4	1903.8	4407.7	6885.5	4501.7	2057.8	1115.8	807.0	777.8
70°	300.8	306.4	356.2	640.4	1894.4	4421.1	2170.7	742.3	408.2	330.8	326.1
72.5°	220.3	223.5	238.5	284.3	582.7	1815.4	713.8	315.0	239.3	214.0	211.6
75°	172.9	174.5	185.5	209.2	271.6	503.0	296.9	216.4	182.4	164.2	162.6
77.5°	131.9	135.8	143.7	159.5	182.4	238.5	196.6	161.9	140.5	125.6	123.2
80°	90.8	95.5	110.5	116.9	122.4	154.7	134.2	122.4	109.8	91.6	86.0
82.5°	56.1	59.2	74.3	79.7	77.4	86.9	86.0	87.6	78.2	56.9	52.9
85°	29.2	30.8	40.3	41.9	38.7	35.6	44.2	51.3	48.2	32.4	31.6
87.5°	6.3	7.1	8.7	7.9	8.7	8.7	11.0	16.6	17.4	11.0	10.3
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)