

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: P528899

Luminaire Tested: **GALN-SA4A-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528899
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-SA4A-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 11577 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

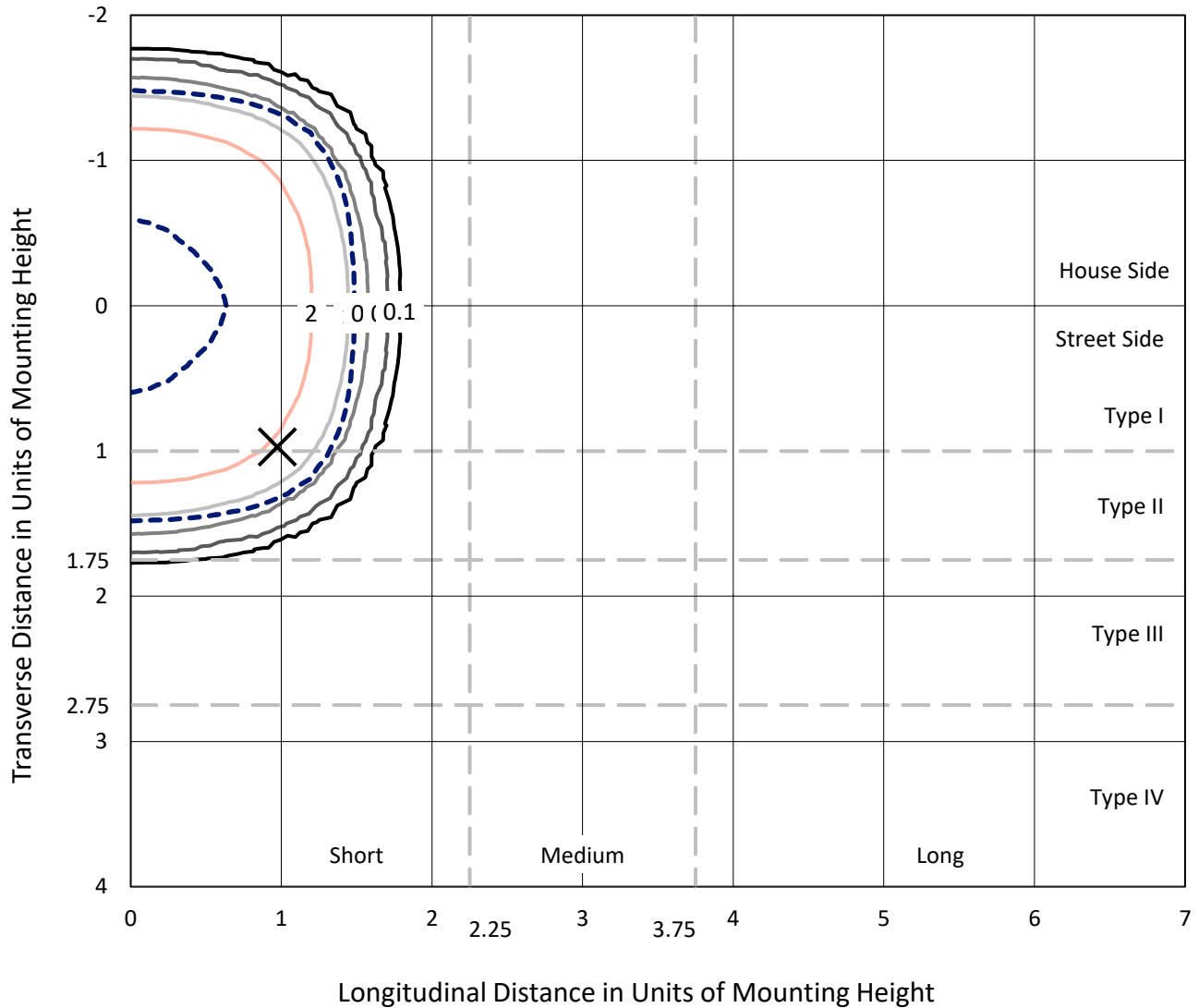
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

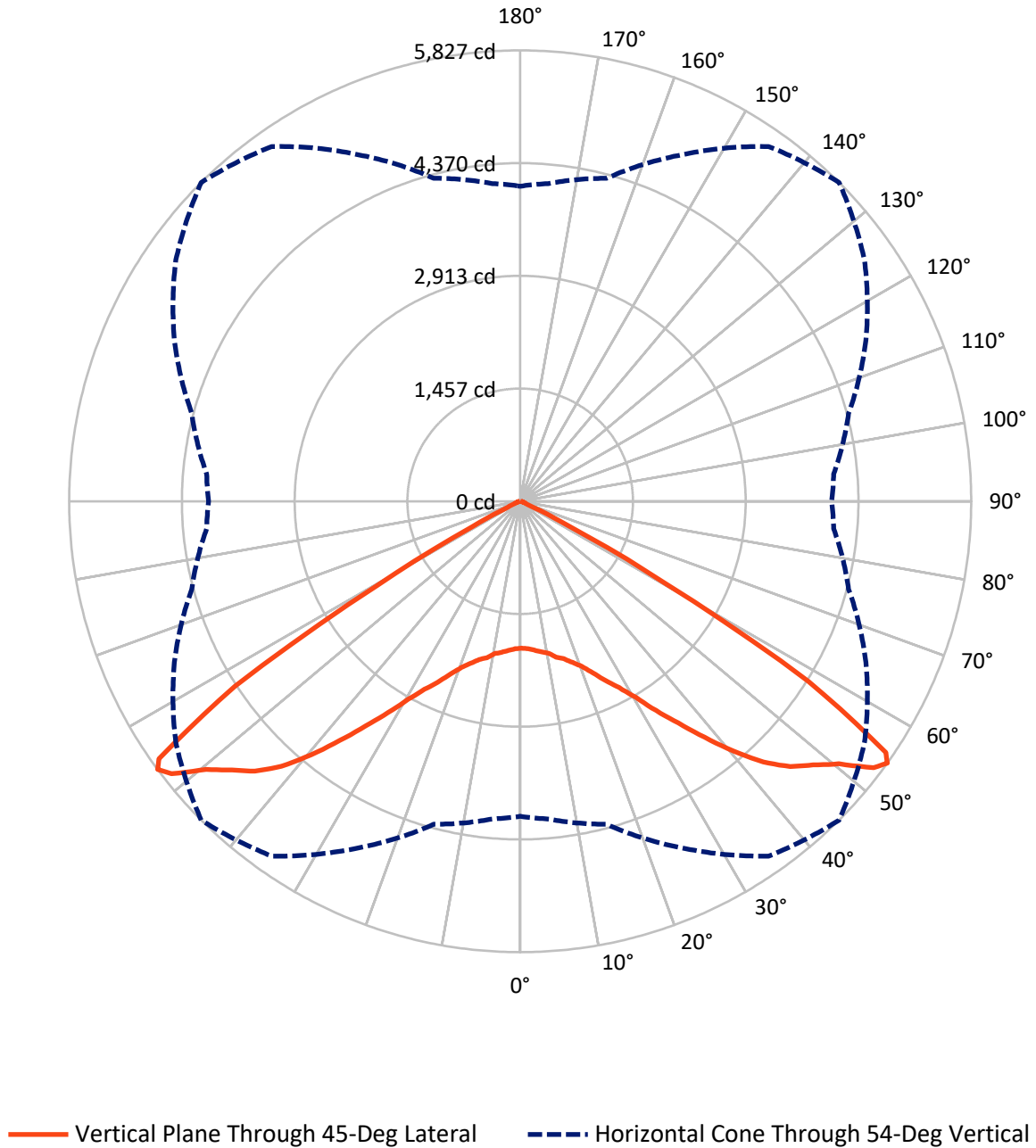
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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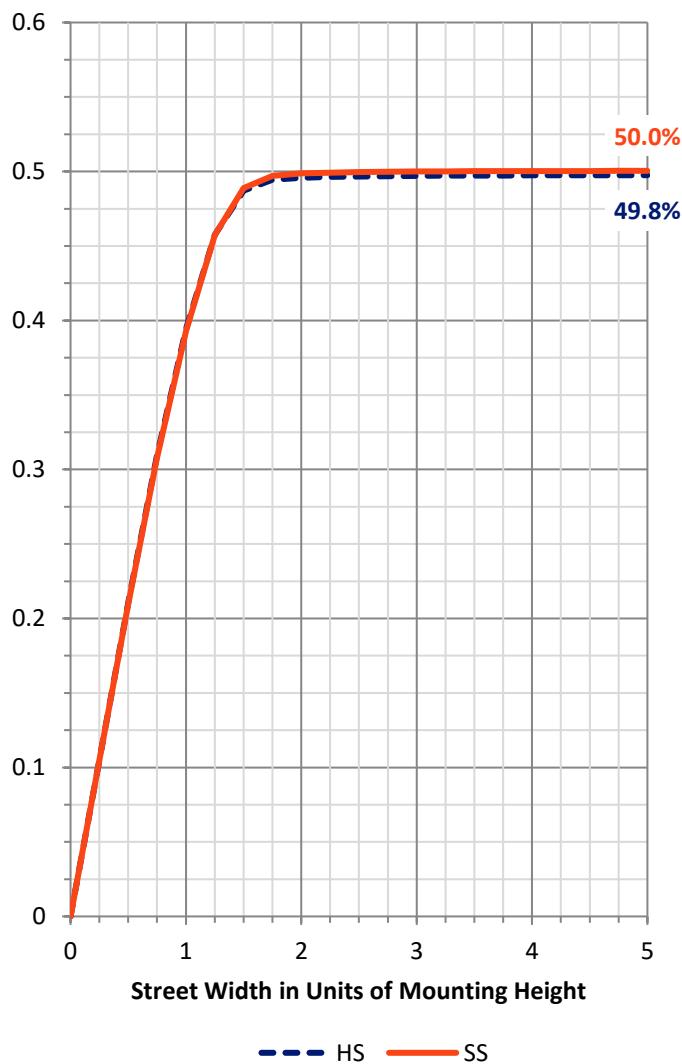
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5788.5	0.0	5788.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5788.5	0.0	5788.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11577.0	0.0	11577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.6
10°-20°	601.7	5.2
20°-30°	1179.2	10.2
30°-40°	2120.5	18.3
40°-50°	3629.9	31.4
50°-60°	3512.3	30.3
60°-70°	300.7	2.6
70°-80°	35.6	0.3
80°-90°	11.2	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°	11577.0	100.0
0°-180°	11577.0	100.0

Coefficient of Utilization



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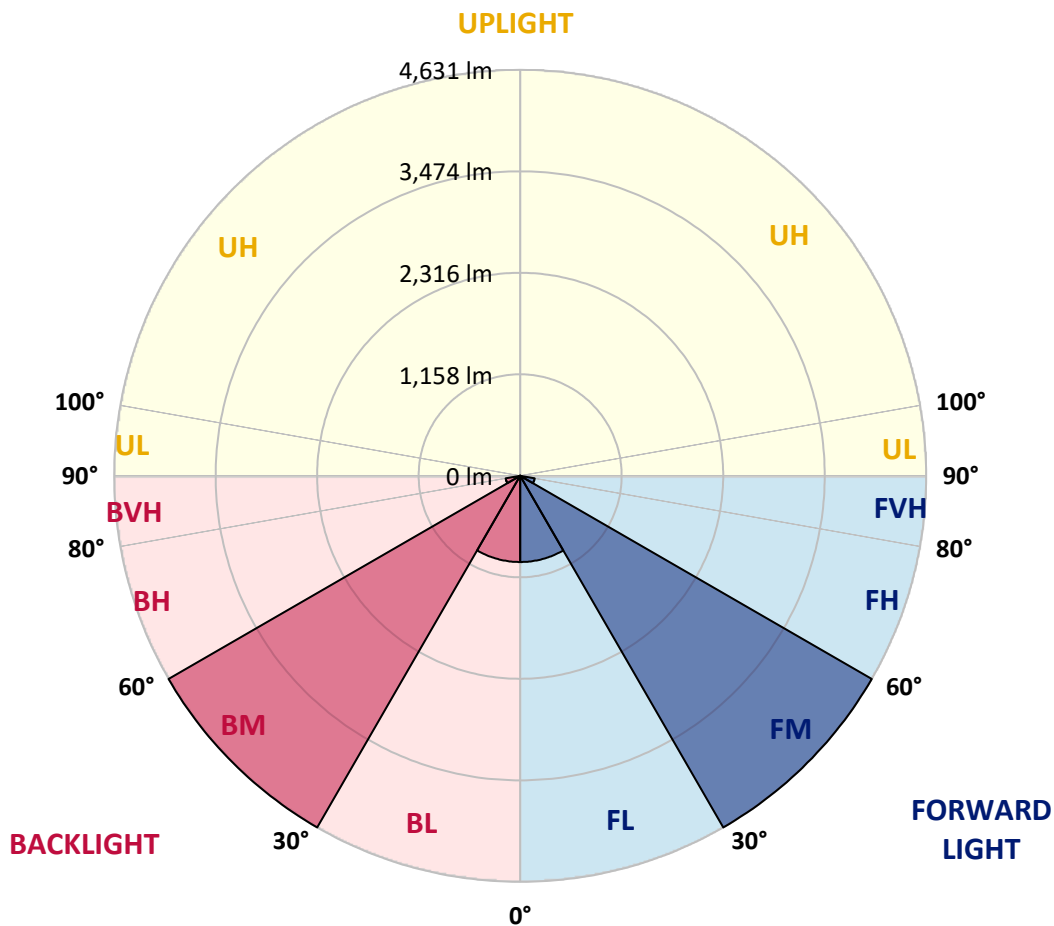
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.4	8.5			
FM (30°-60°)	4631.4	40.0			
FH (60°-80°)	168.1	1.5			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	983.4	8.5	B2/1000		
BM (30°-60°)	4631.4	40.0	B3/5000		
BH (60°-80°)	168.1	1.5	B1/500		G0/660
BVH (80°-90°)	5.6	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°	1898.3	1898.3	1898.3	1898.3	1898.3	1898.3	1898.3	1898.3	1898.3	1898.3	1898.3
2.5°	1907.4	1918.4	1911.1	1916.6	1916.6	1907.4	1912.9	1890.9	1905.6	1894.6	1896.4
5°	1936.8	1934.9	1934.9	1936.8	1929.4	1933.1	1925.8	1918.4	1912.9	1905.6	1927.6
7.5°	1973.5	1973.5	1960.6	1964.3	1960.6	1966.1	1951.5	1936.8	1931.3	1925.8	1922.1
10°	2008.3	2004.6	1999.1	2015.6	2002.8	1995.5	1988.1	1979.0	1958.8	1951.5	1944.1
12.5°	2059.7	2057.8	2050.5	2067.0	2059.7	2067.0	2039.5	2015.6	2012.0	1988.1	2001.0
15°	2120.2	2136.7	2123.9	2123.9	2120.2	2111.0	2100.0	2089.0	2056.0	2046.8	2048.7
17.5°	2199.1	2193.6	2195.4	2195.4	2213.7	2189.9	2167.9	2140.4	2123.9	2118.4	2100.0
20°	2274.3	2281.6	2279.8	2292.6	2303.6	2277.9	2254.1	2250.4	2204.6	2211.9	2186.2
22.5°	2406.3	2400.8	2410.0	2419.1	2411.8	2408.1	2386.1	2358.6	2318.3	2299.9	2296.3
25°	2545.7	2536.5	2520.0	2542.0	2553.0	2569.5	2527.4	2512.7	2450.3	2422.8	2424.6
27.5°	2664.9	2677.7	2696.1	2705.3	2732.8	2727.3	2697.9	2650.2	2602.6	2571.4	2551.2
30°	2828.1	2835.5	2866.7	2879.5	2927.2	2940.0	2894.2	2839.1	2754.8	2714.4	2690.6
32.5°	2978.5	3029.9	3028.1	3092.2	3169.3	3222.5	3139.9	3055.6	2971.2	2923.5	2881.3
35°	3222.5	3213.3	3266.5	3334.3	3459.1	3519.6	3429.7	3332.5	3204.1	3127.1	3094.1
37.5°	3449.9	3453.6	3525.1	3633.3	3776.4	3869.9	3791.0	3631.5	3499.4	3400.4	3354.5
40°	3780.0	3787.4	3860.7	3983.6	4145.0	4245.9	4154.2	3992.8	3816.7	3739.7	3739.7
42.5°	4167.0	4198.2	4245.9	4352.3	4497.2	4609.0	4526.5	4399.9	4222.0	4123.0	4137.7
45°	4565.0	4579.7	4610.9	4768.6	4836.5	4891.5	4814.4	4755.8	4636.5	4515.5	4495.3
47.5°	4937.3	4942.8	5034.5	5084.1	5137.2	5091.4	5140.9	5063.9	4930.0	4812.6	4788.8
50°	5102.4	5093.2	5223.4	5373.8	5414.2	5333.5	5291.3	5240.0	5036.4	4895.1	4832.8
52.5°	4621.9	4675.1	4917.2	5335.3	5650.8	5718.6	5472.9	5236.3	4856.6	4581.5	4539.3
54°	4071.6	4121.2	4321.1	4941.0	5597.6	5826.9	5430.7	4928.2	4392.6	4066.1	4024.0
55°	3526.9	3471.9	3835.1	4467.8	5348.2	5731.5	5263.8	4530.2	3917.6	3618.6	3559.9
57.5°	1909.3	1918.4	2224.7	2822.6	3758.0	4394.4	3880.9	3064.7	2314.6	1979.0	1949.6
60°	605.2	619.9	753.8	1140.8	1795.6	2144.0	1837.7	1230.7	851.0	682.3	654.8
62.5°	188.9	196.2	214.6	319.1	491.5	702.5	550.2	330.1	245.8	225.6	229.3
65°	115.5	115.5	117.4	124.7	146.7	170.6	165.1	144.9	139.4	135.7	133.9
67.5°	75.2	73.4	77.0	82.5	86.2	88.0	93.5	99.0	97.2	93.5	93.5
70°	45.9	44.0	47.7	55.0	56.9	60.5	66.0	73.4	71.5	67.9	69.7
72.5°	25.7	25.7	27.5	33.0	38.5	42.2	47.7	53.2	55.0	53.2	53.2
75°	9.2	11.0	14.7	20.2	23.8	29.3	34.8	40.3	45.9	42.2	40.3
77.5°	3.7	3.7	7.3	12.8	18.3	23.8	33.0	38.5	42.2	38.5	34.8
80°	1.8	1.8	5.5	11.0	16.5	22.0	27.5	33.0	34.8	31.2	27.5
82.5°	1.8	1.8	5.5	11.0	16.5	20.2	29.3	33.0	36.7	33.0	27.5
85°	0.0	1.8	5.5	11.0	14.7	16.5	16.5	11.0	9.2	5.5	5.5
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)