

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: P528847

Luminaire Tested: **GALN-SA4A-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528847
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 10394 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

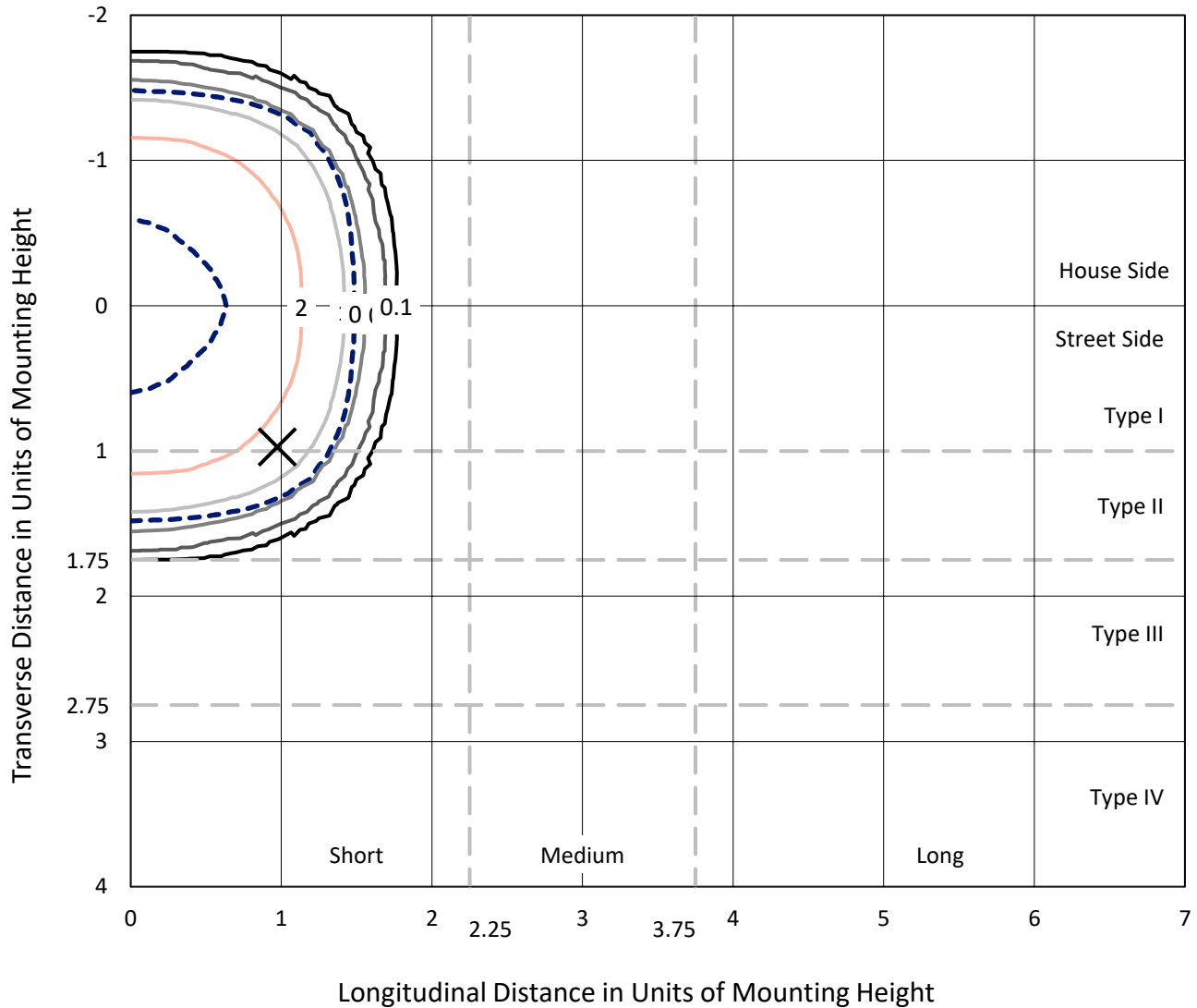
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

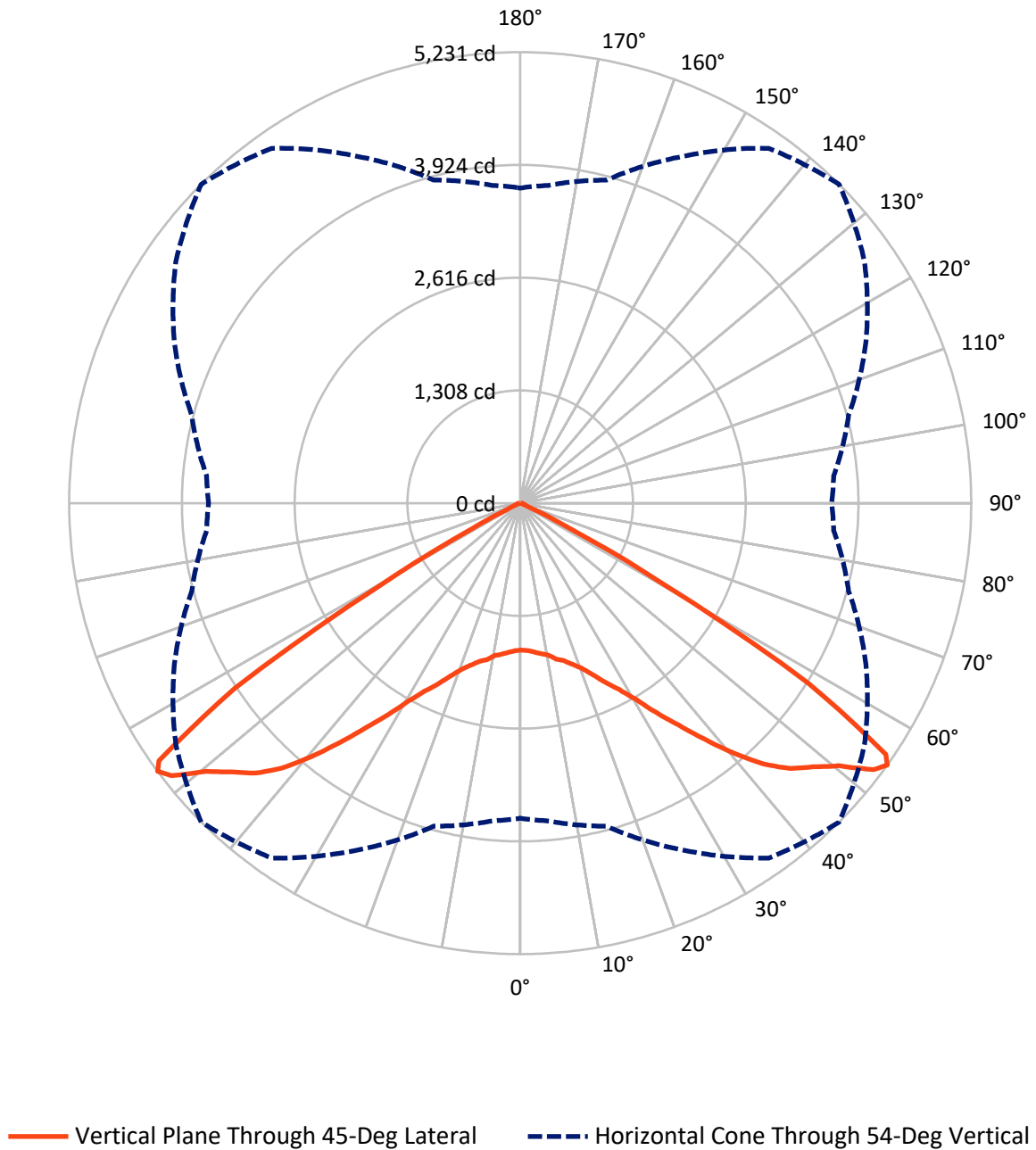
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	5197.0	0.0	5197.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5197.0	0.0	5197.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10394.0	0.0	10394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.6
10°-20°	540.2	5.2
20°-30°	1058.7	10.2
30°-40°	1903.8	18.3
40°-50°	3259.0	31.4
50°-60°	3153.4	30.3
60°-70°	269.9	2.6
70°-80°	32.0	0.3
80°-90°	10.0	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°	10394.0	100.0
0°-180°	10394.0	100.0

Coefficient of Utilization



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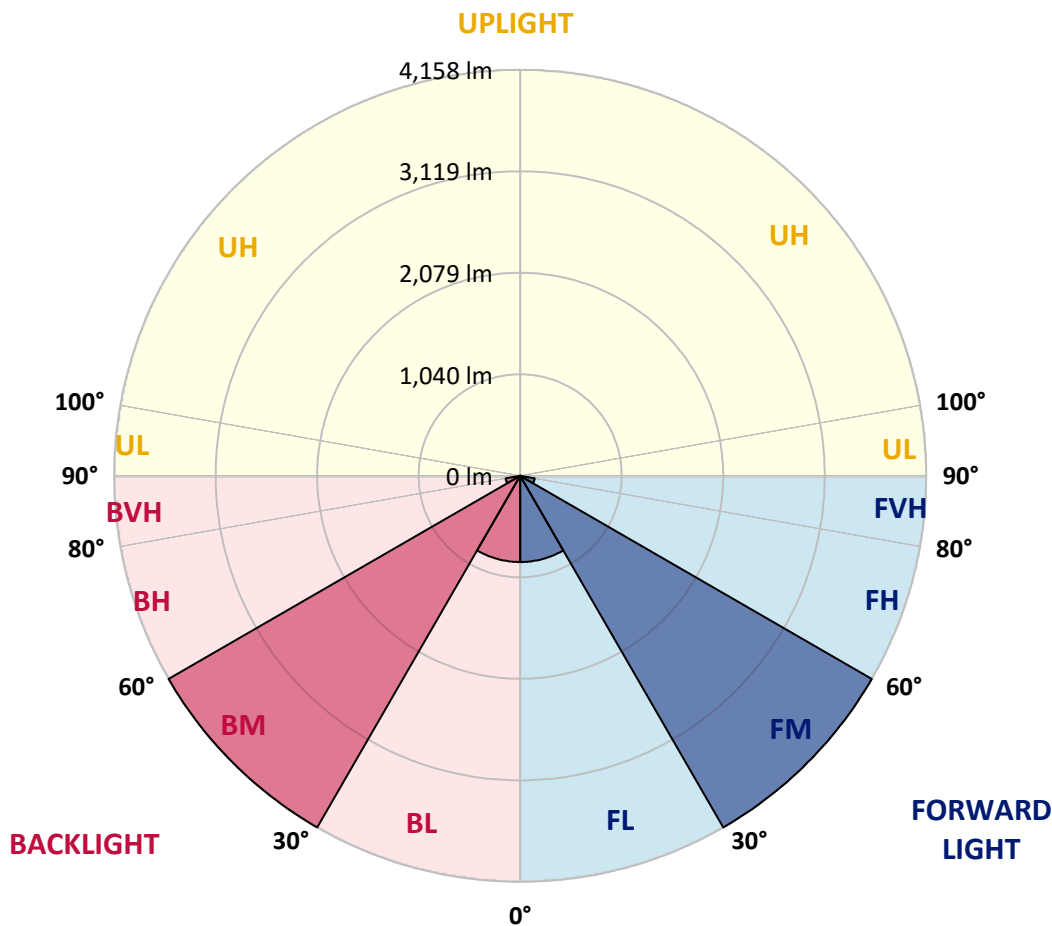
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.9	8.5			
FM (30°-60°)	4158.1	40.0			
FH (60°-80°)	151.0	1.5			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	882.9	8.5	B2/1000		
BM (30°-60°)	4158.1	40.0	B3/5000		
BH (60°-80°)	151.0	1.5	B1/500		G0/660
BVH (80°-90°)	5.0	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°	1704.3	1704.3	1704.3	1704.3	1704.3	1704.3	1704.3	1704.3	1704.3	1704.3	1704.3
2.5°	1712.5	1722.4	1715.8	1720.8	1720.8	1712.5	1717.5	1697.7	1710.9	1701.0	1702.6
5°	1738.9	1737.2	1737.2	1738.9	1732.3	1735.6	1729.0	1722.4	1717.5	1710.9	1730.6
7.5°	1771.8	1771.8	1760.3	1763.6	1760.3	1765.2	1752.0	1738.9	1733.9	1729.0	1725.7
10°	1803.1	1799.8	1794.9	1809.7	1798.2	1791.6	1785.0	1776.7	1758.6	1752.0	1745.5
12.5°	1849.2	1847.6	1841.0	1855.8	1849.2	1855.8	1831.1	1809.7	1806.4	1785.0	1796.5
15°	1903.5	1918.4	1906.8	1906.8	1903.5	1895.3	1885.4	1875.5	1845.9	1837.7	1839.3
17.5°	1974.3	1969.4	1971.1	1971.1	1987.5	1966.1	1946.4	1921.7	1906.8	1901.9	1885.4
20°	2041.9	2048.4	2046.8	2058.3	2068.2	2045.2	2023.7	2020.5	1979.3	1985.9	1962.8
22.5°	2160.4	2155.5	2163.7	2171.9	2165.4	2162.1	2142.3	2117.6	2081.4	2064.9	2061.6
25°	2285.6	2277.3	2262.5	2282.3	2292.1	2307.0	2269.1	2255.9	2199.9	2175.2	2176.9
27.5°	2392.6	2404.1	2420.6	2428.8	2453.5	2448.6	2422.2	2379.4	2336.6	2308.6	2290.5
30°	2539.1	2545.7	2573.7	2585.3	2628.1	2639.6	2598.4	2549.0	2473.3	2437.1	2415.6
32.5°	2674.2	2720.3	2718.6	2776.3	2845.4	2893.2	2819.1	2743.3	2667.6	2624.8	2586.9
35°	2893.2	2884.9	2932.7	2993.6	3105.6	3159.9	3079.3	2992.0	2876.7	2807.6	2777.9
37.5°	3097.4	3100.7	3164.9	3262.0	3390.5	3474.5	3403.6	3260.4	3141.8	3052.9	3011.7
40°	3393.8	3400.4	3466.2	3576.5	3721.4	3812.0	3729.7	3584.8	3426.7	3357.5	3357.5
42.5°	3741.2	3769.2	3812.0	3907.5	4037.6	4138.1	4064.0	3950.3	3790.6	3701.7	3714.9
45°	4098.5	4111.7	4139.7	4281.3	4342.2	4391.6	4322.5	4269.8	4162.8	4054.1	4036.0
47.5°	4432.8	4437.7	4520.1	4564.5	4612.3	4571.1	4615.6	4546.4	4426.2	4320.8	4299.4
50°	4581.0	4572.8	4689.7	4824.7	4860.9	4788.5	4750.6	4704.5	4521.7	4394.9	4338.9
52.5°	4149.6	4197.3	4414.7	4790.1	5073.4	5134.3	4913.6	4701.2	4360.4	4113.4	4075.5
54°	3655.6	3700.0	3879.5	4436.1	5025.6	5231.4	4875.8	4424.6	3943.7	3650.6	3612.8
55°	3166.5	3117.1	3443.2	4011.3	4801.7	5145.8	4725.9	4067.2	3517.3	3248.9	3196.2
57.5°	1714.2	1722.4	1997.4	2534.2	3374.0	3945.4	3484.3	2751.6	2078.1	1776.7	1750.4
60°	543.4	556.6	676.8	1024.2	1612.1	1924.9	1650.0	1104.9	764.0	612.6	587.9
62.5°	169.6	176.2	192.7	286.5	441.3	630.7	494.0	296.4	220.7	202.5	205.8
65°	103.7	103.7	105.4	112.0	131.7	153.1	148.2	130.1	125.1	121.9	120.2
67.5°	67.5	65.9	69.2	74.1	77.4	79.0	84.0	88.9	87.3	84.0	84.0
70°	41.2	39.5	42.8	49.4	51.0	54.3	59.3	65.9	64.2	60.9	62.6
72.5°	23.1	23.1	24.7	29.6	34.6	37.9	42.8	47.8	49.4	47.8	47.8
75°	8.2	9.9	13.2	18.1	21.4	26.3	31.3	36.2	41.2	37.9	36.2
77.5°	3.3	3.3	6.6	11.5	16.5	21.4	29.6	34.6	37.9	34.6	31.3
80°	1.6	1.6	4.9	9.9	14.8	19.8	24.7	29.6	31.3	28.0	24.7
82.5°	1.6	1.6	4.9	9.9	14.8	18.1	26.3	29.6	32.9	29.6	24.7
85°	0.0	1.6	4.9	9.9	13.2	14.8	14.8	9.9	8.2	4.9	4.9
87.5°	0.0	0.0	1.6	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)