

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: P528923

Luminaire Tested: **GALN-SA4A-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10857 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

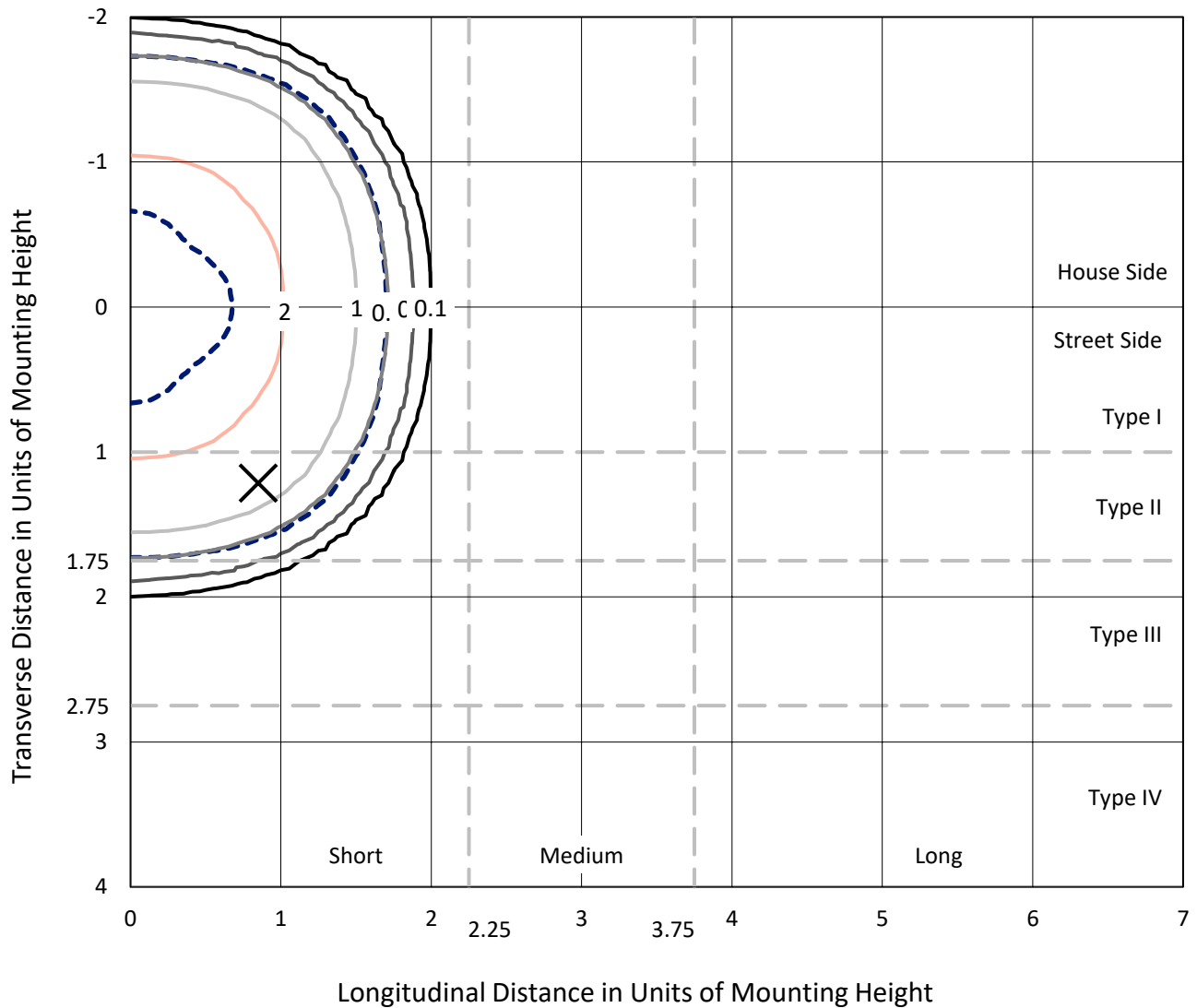
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

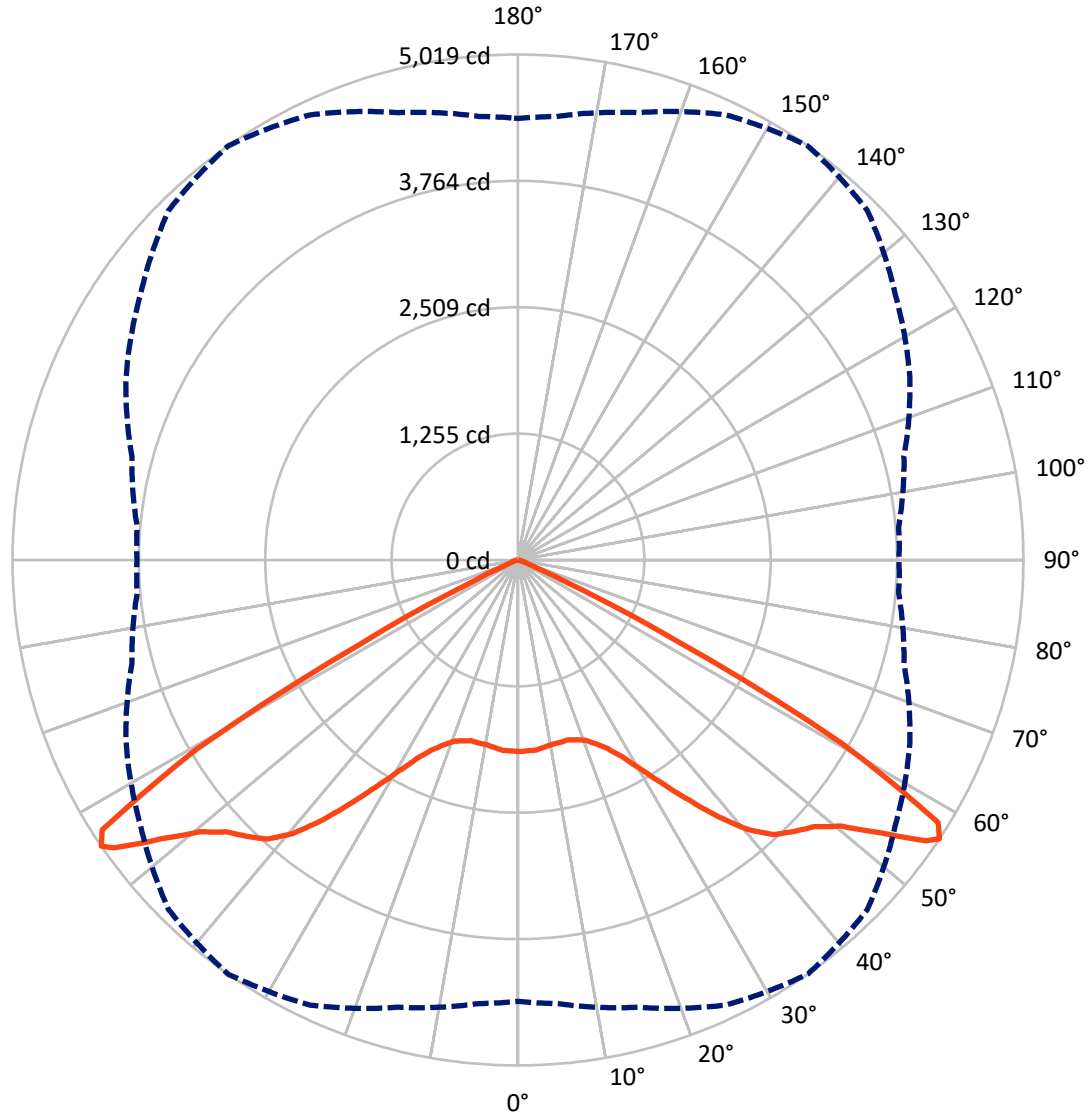
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5428.5	0.0	5428.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5428.5	0.0	5428.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10857.0	0.0	10857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.6
10°-20°	522.0	4.8
20°-30°	945.3	8.7
30°-40°	1752.8	16.1
40°-50°	2877.2	26.5
50°-60°	3706.7	34.1
60°-70°	816.9	7.5
70°-80°	47.4	0.4
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°	10857.0	100.0
0°-180°	10857.0	100.0

Coefficient of Utilization



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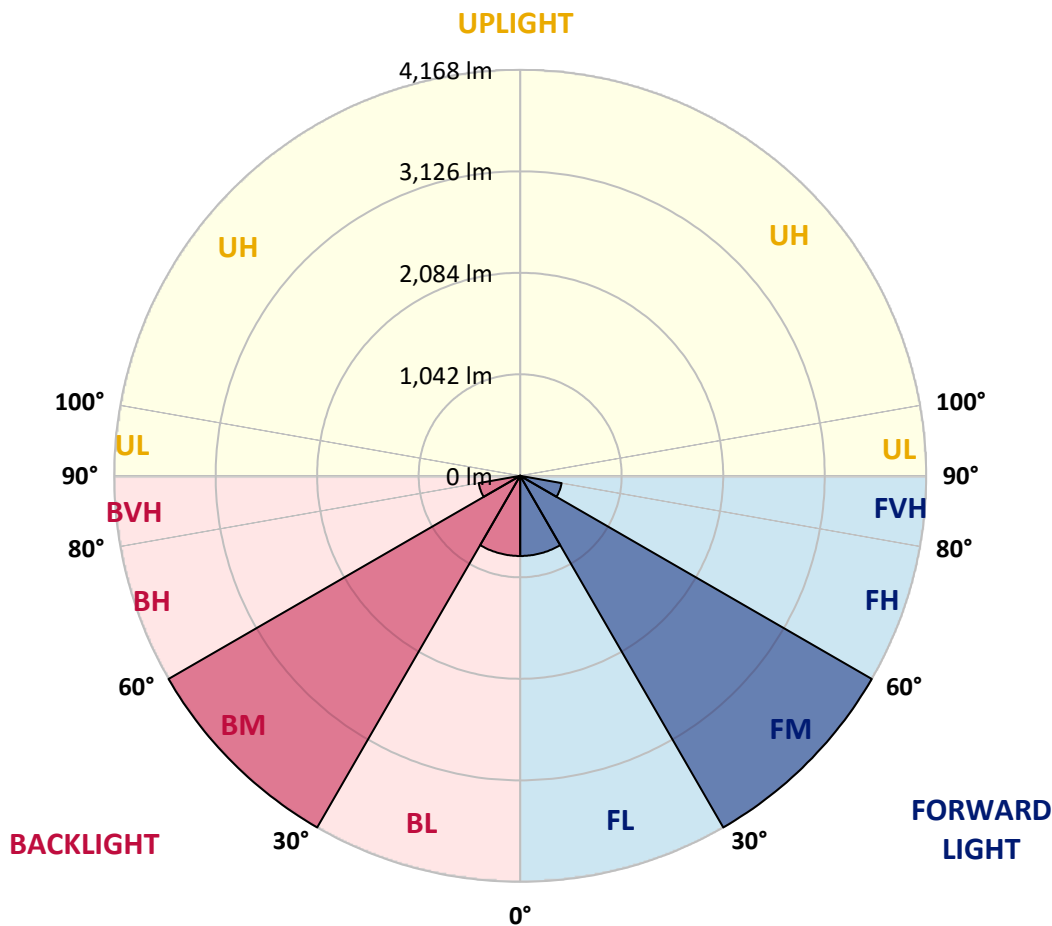
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.0	7.6			
FM (30°-60°)	4168.3	38.4			
FH (60°-80°)	432.1	4.0			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	823.0	7.6	B2/1000		
BM (30°-60°)	4168.3	38.4	B3/5000		
BH (60°-80°)	432.1	4.0	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°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1906.3	1906.3	1908.3	1910.2	1896.5	1890.6	1892.5	1888.6	1886.6	1892.5	1892.5
5°	1900.4	1900.4	1894.5	1896.5	1896.5	1878.8	1878.8	1882.7	1882.7	1870.9	1867.0
7.5°	1884.7	1880.7	1872.9	1882.7	1876.8	1876.8	1863.0	1853.2	1849.3	1857.1	1849.3
10°	1851.2	1853.2	1861.1	1865.0	1861.1	1872.9	1849.3	1835.5	1821.7	1815.8	1815.8
12.5°	1835.5	1847.3	1835.5	1845.3	1859.1	1849.3	1835.5	1825.7	1806.0	1798.1	1798.1
15°	1833.5	1841.4	1845.3	1859.1	1853.2	1857.1	1829.6	1817.8	1788.3	1774.5	1768.6
17.5°	1831.6	1841.4	1847.3	1872.9	1876.8	1878.8	1857.1	1821.7	1796.1	1782.4	1768.6
20°	1853.2	1857.1	1868.9	1894.5	1910.2	1937.8	1898.4	1861.1	1806.0	1790.2	1784.3
22.5°	1880.7	1900.4	1912.2	1939.8	1981.1	2004.7	1953.5	1906.3	1849.3	1829.6	1806.0
25°	1969.3	1965.3	1985.0	2042.1	2075.5	2093.2	2051.9	1983.0	1908.3	1884.7	1888.6
27.5°	2079.4	2083.4	2101.1	2164.0	2213.2	2240.8	2191.6	2101.1	2028.3	1988.9	1985.0
30°	2223.0	2219.1	2238.8	2323.4	2411.9	2453.2	2366.7	2260.4	2189.6	2138.5	2150.3
32.5°	2374.5	2376.5	2431.6	2508.3	2651.9	2732.6	2592.9	2463.1	2356.8	2321.4	2303.7
35°	2598.8	2608.6	2651.9	2770.0	2929.3	3033.6	2880.1	2724.7	2602.7	2537.8	2545.7
37.5°	2876.2	2866.4	2939.1	3067.0	3234.2	3311.0	3181.1	3004.1	2880.1	2836.8	2864.4
40°	3171.3	3181.1	3218.5	3334.6	3521.5	3572.6	3379.8	3283.4	3175.2	3153.6	3187.0
42.5°	3466.4	3460.5	3488.0	3592.3	3728.0	3692.6	3578.5	3521.5	3444.7	3401.5	3446.7
45°	3682.8	3673.0	3724.1	3794.9	3844.1	3777.2	3726.1	3706.4	3667.0	3619.8	3661.1
47.5°	3893.3	3885.4	3934.6	3954.3	3958.2	3869.7	3879.5	3914.9	3816.6	3718.2	3765.4
50°	4072.3	4058.5	4119.5	4162.8	4153.0	4011.3	4046.7	4011.3	3857.9	3741.8	3724.1
52.5°	4371.3	4377.2	4442.2	4520.9	4497.2	4379.2	4328.1	4166.7	3970.0	3865.7	3804.8
55°	4560.2	4530.7	4642.8	4892.7	4920.2	4798.2	4572.0	4334.0	4038.9	3911.0	3895.3
56°	4383.1	4420.5	4597.6	4876.9	5018.6	4906.4	4577.9	4292.7	3968.0	3794.9	3783.1
57.5°	3932.6	3913.0	4153.0	4534.6	4920.2	4873.0	4416.6	3997.6	3619.8	3425.1	3401.5
60°	2447.3	2504.4	2714.9	3187.0	3702.5	3726.1	3273.6	2913.6	2472.9	2299.8	2341.1
62.5°	958.1	908.9	1040.7	1392.8	1747.0	1825.7	1654.5	1375.1	1129.2	958.1	946.3
65°	222.3	216.4	243.9	336.4	470.2	544.9	517.4	371.8	273.5	259.7	240.0
67.5°	125.9	125.9	120.0	120.0	131.8	139.7	133.8	131.8	137.7	143.6	141.6
70°	88.5	86.6	82.6	84.6	80.7	80.7	86.6	96.4	104.3	104.3	106.2
72.5°	53.1	53.1	53.1	59.0	59.0	59.0	64.9	72.8	74.8	72.8	70.8
75°	23.6	23.6	27.5	33.4	37.4	39.3	45.2	49.2	53.1	49.2	45.2
77.5°	5.9	5.9	9.8	13.8	17.7	21.6	29.5	35.4	37.4	35.4	29.5
80°	2.0	2.0	3.9	9.8	17.7	21.6	29.5	31.5	33.4	29.5	23.6
82.5°	2.0	2.0	3.9	9.8	13.8	17.7	23.6	27.5	29.5	25.6	23.6
85°	0.0	2.0	3.9	7.9	11.8	15.7	15.7	11.8	9.8	5.9	7.9
87.5°	0.0	0.0	2.0	2.0	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)