

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: P647913

Luminaire Tested: **GALN-SA5A-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647913
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-SA5A-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 10762.4 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

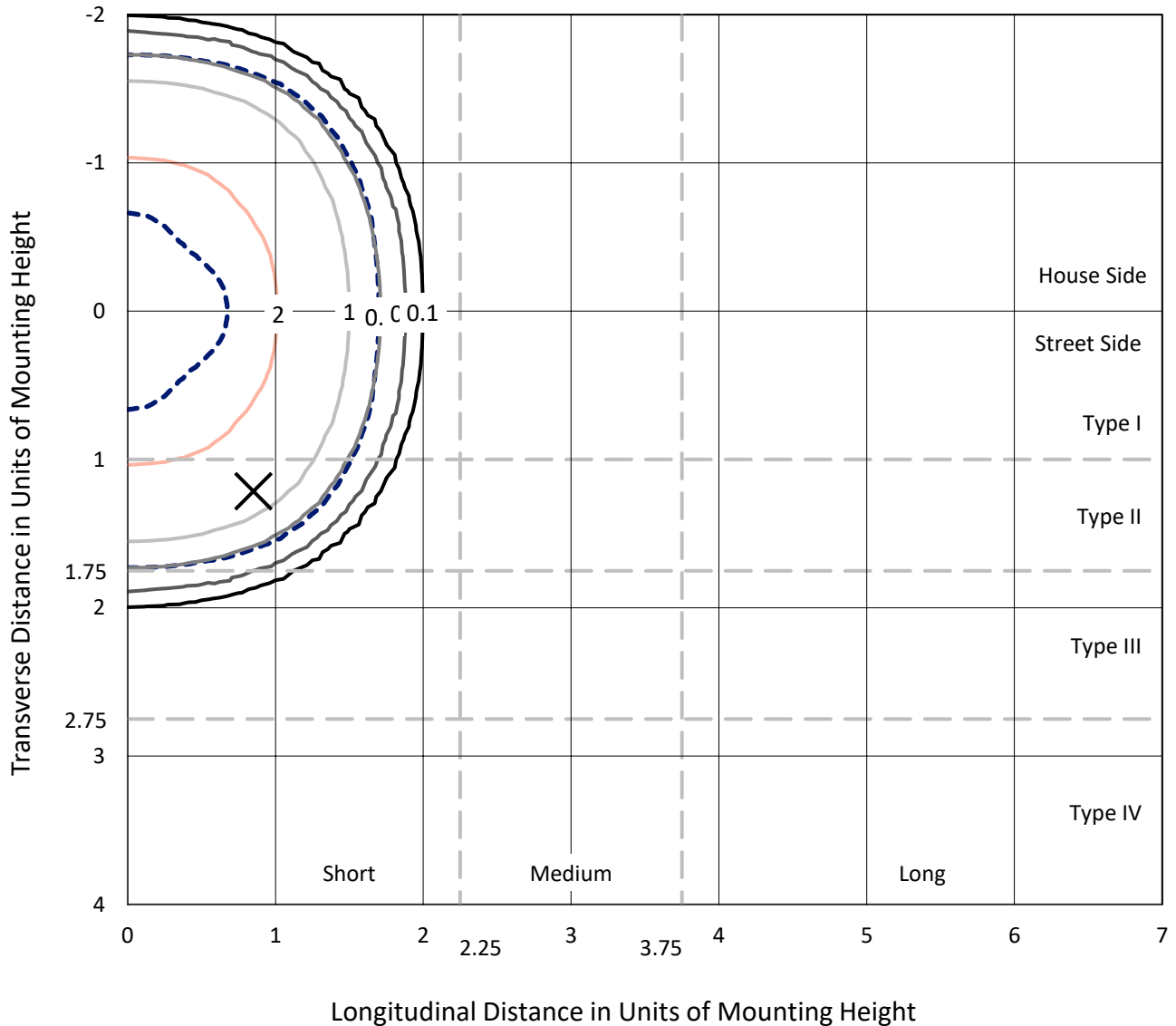
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

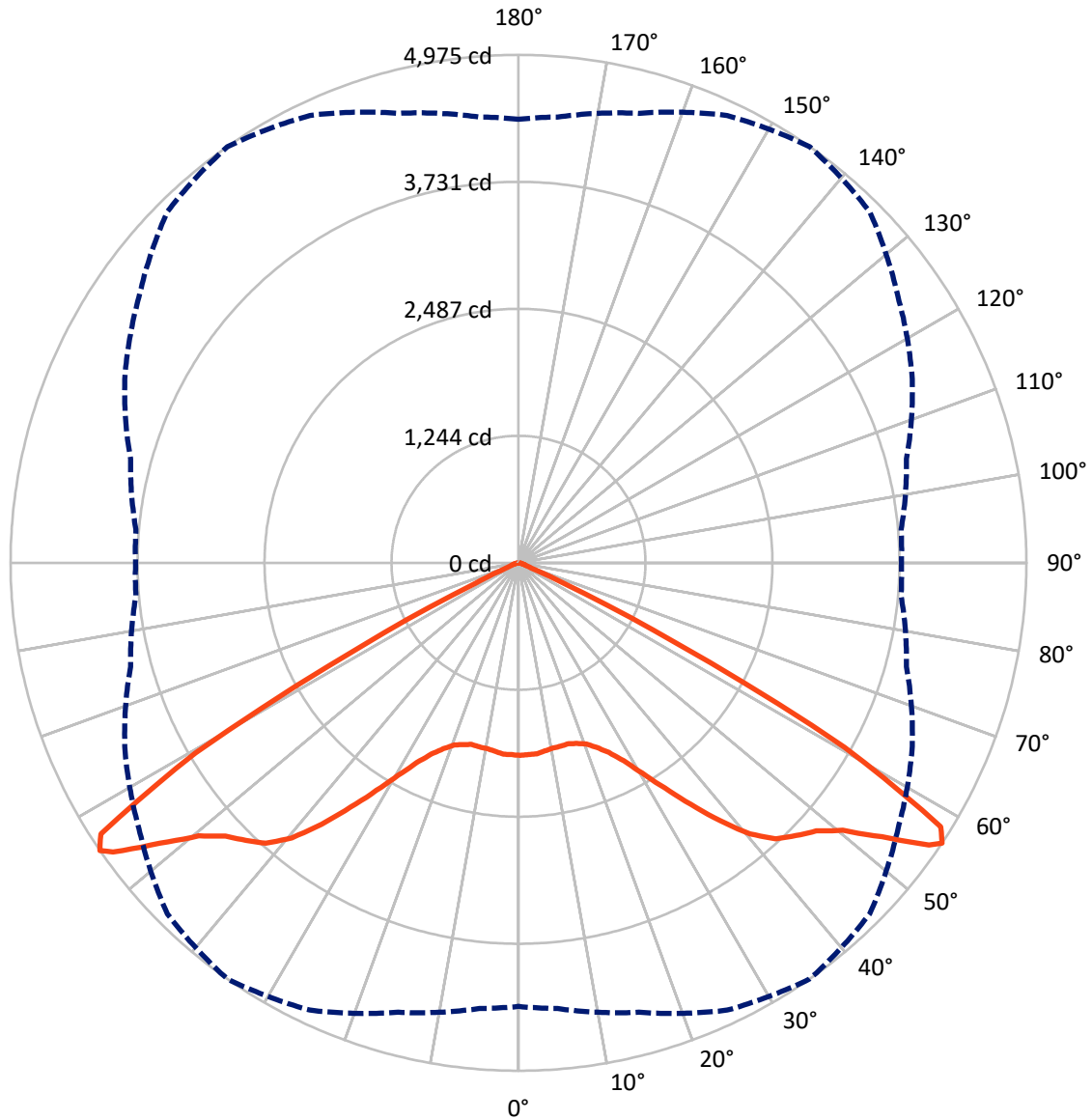
× Max cd
 - - - 1/2 Max cd



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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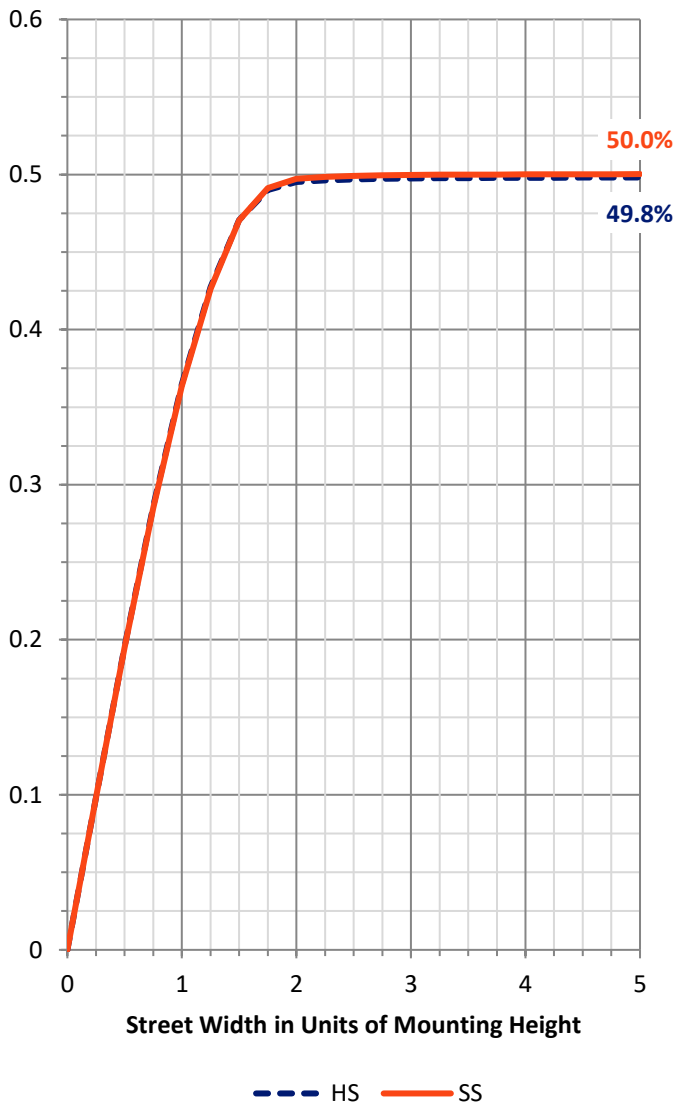
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5381.2	0.0	5381.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5381.2	0.0	5381.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10762.4	0.0	10762.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	1.6
10°-20°	517.4	4.8
20°-30°	937.0	8.7
30°-40°	1737.6	16.1
40°-50°	2852.1	26.5
50°-60°	3674.3	34.1
60°-70°	809.8	7.5
70°-80°	47.0	0.4
80°-90°	9.9	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°	10762.4	100.0
0°-180°	10762.4	100.0

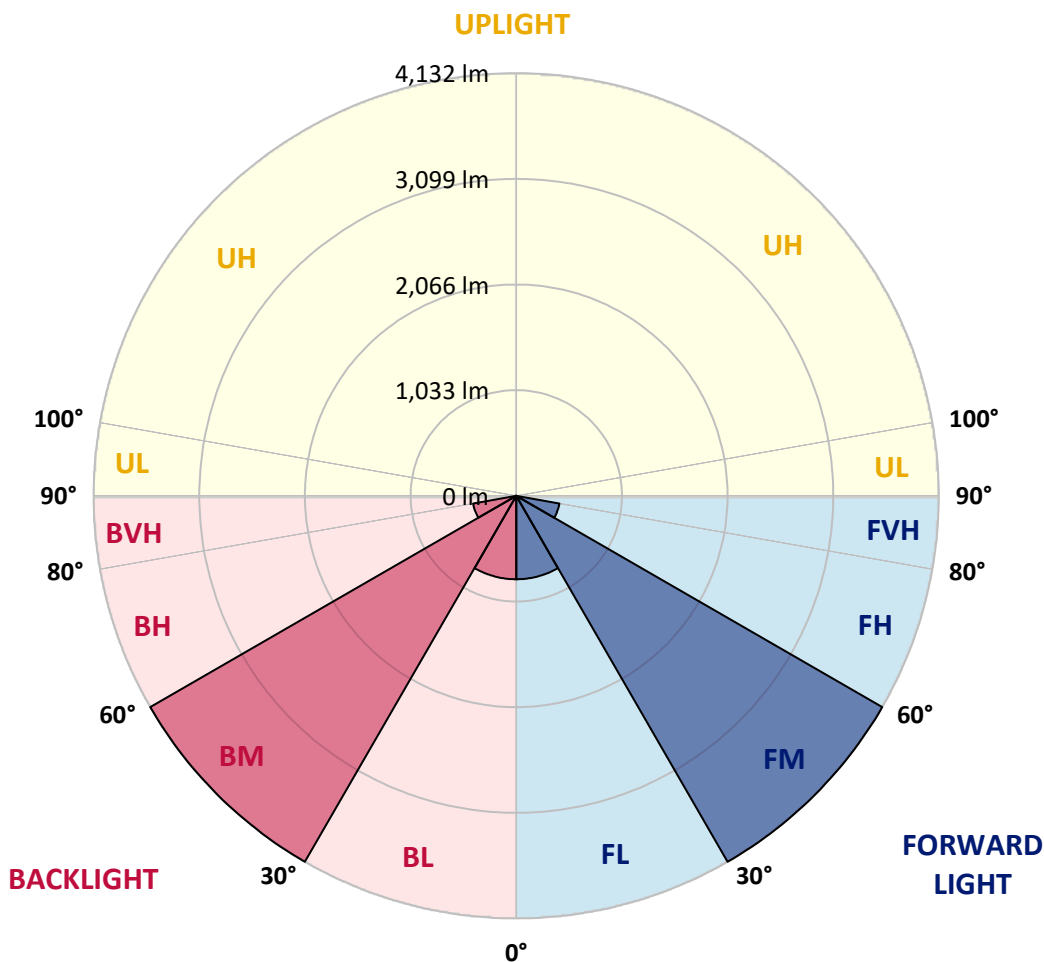


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.8	7.6			
FM (30°-60°)	4132.0	38.4			
FH (60°-80°)	428.4	4.0			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	815.8	7.6	B2/1000		
BM (30°-60°)	4132.0	38.4	B3/5000		
BH (60°-80°)	428.4	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°	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1889.7	1889.7	1891.6	1893.6	1879.9	1874.1	1876.1	1872.2	1870.2	1876.1	1876.1
5°	1883.8	1883.8	1878.0	1879.9	1879.9	1862.4	1862.4	1866.3	1866.3	1854.6	1850.7
7.5°	1868.2	1864.3	1856.6	1866.3	1860.4	1860.4	1846.8	1837.1	1833.2	1840.9	1833.2
10°	1835.1	1837.1	1844.8	1848.7	1844.8	1856.6	1833.2	1819.5	1805.8	1800.0	1800.0
12.5°	1819.5	1831.2	1819.5	1829.2	1842.9	1833.2	1819.5	1809.7	1790.3	1782.4	1782.4
15°	1817.5	1825.3	1829.2	1842.9	1837.1	1840.9	1813.7	1801.9	1772.7	1759.0	1753.2
17.5°	1815.6	1825.3	1831.2	1856.6	1860.4	1862.4	1840.9	1805.8	1780.5	1766.8	1753.2
20°	1837.1	1840.9	1852.7	1878.0	1893.6	1920.9	1881.9	1844.8	1790.3	1774.7	1768.8
22.5°	1864.3	1883.8	1895.6	1922.8	1963.8	1987.2	1936.5	1889.7	1833.2	1813.7	1790.3
25°	1952.1	1948.2	1967.7	2024.3	2057.4	2075.0	2034.0	1965.7	1891.6	1868.2	1872.2
27.5°	2061.3	2065.2	2082.8	2145.2	2193.9	2221.2	2172.4	2082.8	2010.6	1971.6	1967.7
30°	2203.7	2199.8	2219.3	2303.1	2390.9	2431.8	2346.0	2240.7	2170.5	2119.8	2131.5
32.5°	2353.9	2355.8	2410.4	2486.4	2628.8	2708.8	2570.3	2441.6	2336.3	2301.2	2283.6
35°	2576.1	2585.9	2628.8	2745.8	2903.8	3007.1	2855.1	2701.0	2580.1	2515.7	2523.5
37.5°	2851.1	2841.4	2913.5	3040.3	3206.1	3282.1	3153.4	2977.9	2855.1	2812.1	2839.4
40°	3143.7	3153.4	3190.4	3305.5	3490.8	3541.4	3350.4	3254.8	3147.5	3126.0	3159.2
42.5°	3436.2	3430.3	3457.6	3561.0	3695.5	3660.4	3547.3	3490.8	3414.7	3371.8	3416.6
45°	3650.7	3641.0	3691.6	3761.8	3810.6	3744.3	3693.6	3674.1	3635.1	3588.3	3629.2
47.5°	3859.3	3851.6	3900.3	3919.8	3923.7	3835.9	3845.7	3880.8	3783.3	3685.8	3732.6
50°	4036.8	4023.1	4083.6	4126.5	4116.8	3976.4	4011.5	3976.4	3824.3	3709.1	3691.6
52.5°	4333.2	4339.1	4403.4	4481.4	4458.0	4341.0	4290.3	4130.4	3935.4	3832.0	3771.6
55°	4520.4	4491.2	4602.3	4850.0	4877.3	4756.4	4532.2	4296.2	4003.6	3876.9	3861.3
56°	4344.9	4382.0	4557.5	4834.4	4974.8	4863.7	4538.0	4255.2	3933.5	3761.8	3750.1
57.5°	3898.3	3878.8	4116.8	4495.1	4877.3	4830.5	4378.1	3962.7	3588.3	3395.2	3371.8
60°	2426.0	2482.5	2691.2	3159.2	3670.2	3693.6	3245.1	2888.2	2451.3	2279.7	2320.7
62.5°	949.7	901.0	1031.6	1380.7	1731.8	1809.7	1640.1	1363.1	1119.4	949.7	938.0
65°	220.3	214.5	241.8	333.5	466.1	540.2	512.9	368.6	271.1	257.5	238.0
67.5°	124.8	124.8	118.9	118.9	130.7	138.4	132.6	130.7	136.5	142.3	140.4
70°	87.8	85.8	81.9	83.9	79.9	79.9	85.8	95.5	103.4	103.4	105.3
72.5°	52.6	52.6	52.6	58.5	58.5	58.5	64.4	72.2	74.1	72.2	70.2
75°	23.4	23.4	27.3	33.1	37.0	39.0	44.9	48.8	52.6	48.8	44.9
77.5°	5.9	5.9	9.8	13.6	17.5	21.5	29.3	35.1	37.0	35.1	29.3
80°	2.0	2.0	3.9	9.8	17.5	21.5	29.3	31.2	33.1	29.3	23.4
82.5°	2.0	2.0	3.9	9.8	13.6	17.5	23.4	27.3	29.3	25.4	23.4
85°	0.0	2.0	3.9	7.8	11.7	15.6	15.6	11.7	9.8	5.9	7.8
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)