

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: P529963

Luminaire Tested: **GALN-SA5A-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529963
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-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 10922 lumens
Efficiency: N/A
Efficacy: 70.9 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

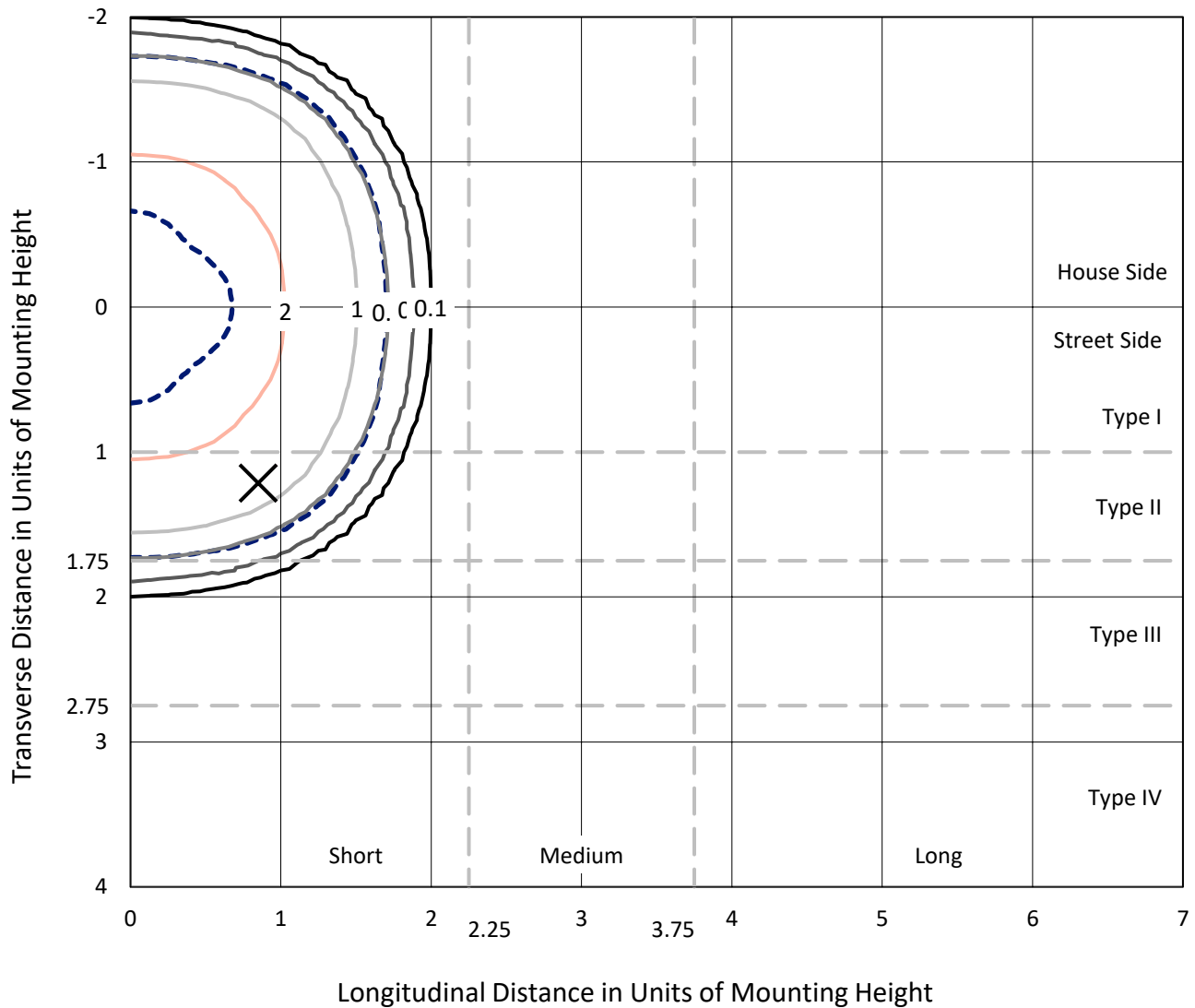


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Iso-Footcandle Lines of Horizontal Illumination

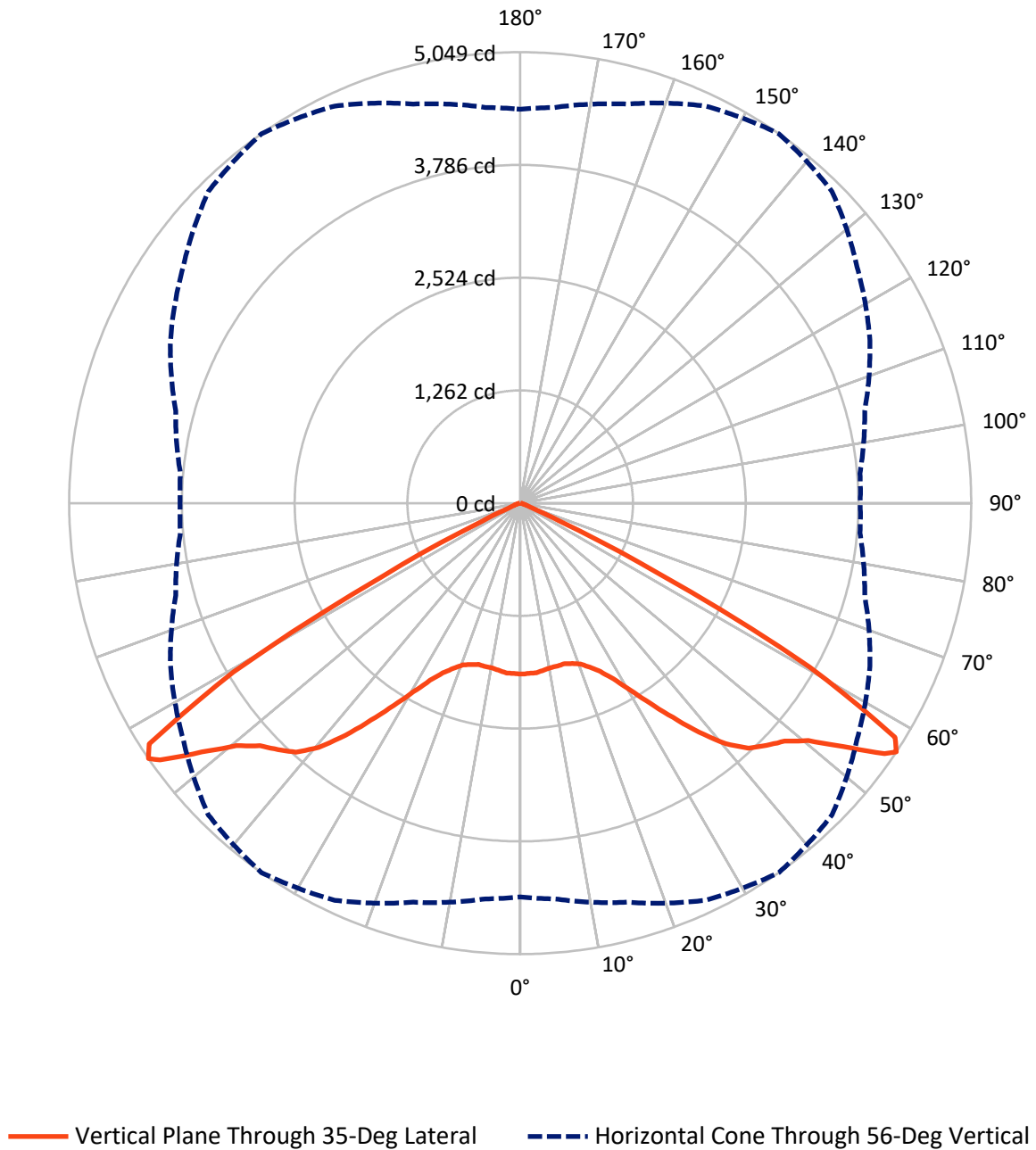
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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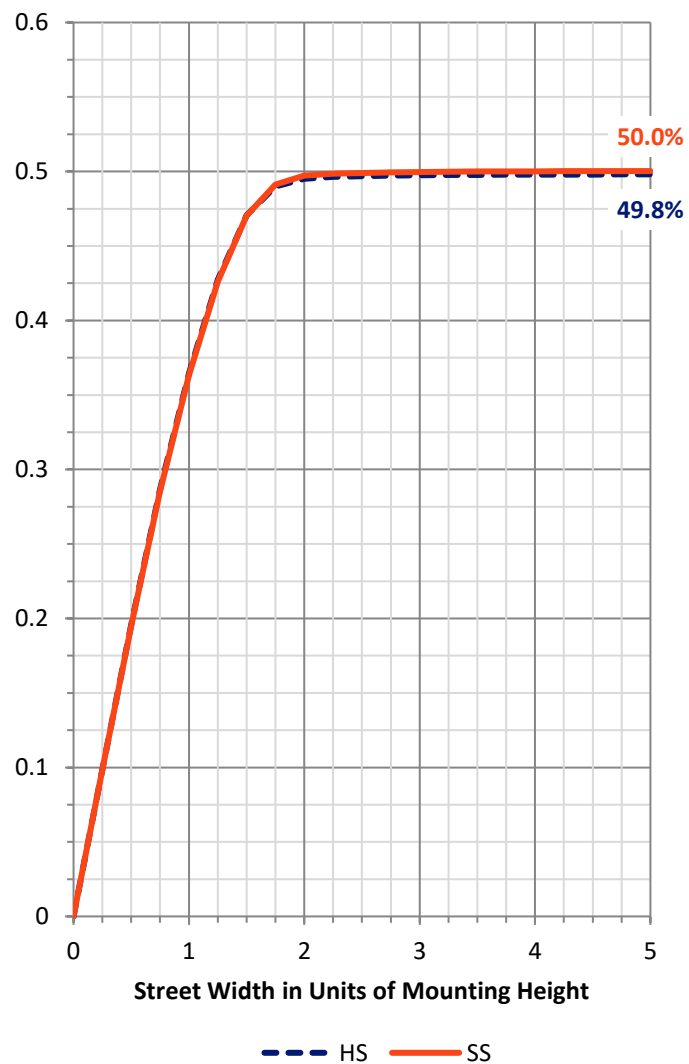
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5461.0	0.0	5461.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5461.0	0.0	5461.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10922.0	0.0	10922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.6
10°-20°	525.1	4.8
20°-30°	950.9	8.7
30°-40°	1763.3	16.1
40°-50°	2894.4	26.5
50°-60°	3728.8	34.1
60°-70°	821.8	7.5
70°-80°	47.7	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°	10922.0	100.0
0°-180°	10922.0	100.0

Coefficient of Utilization



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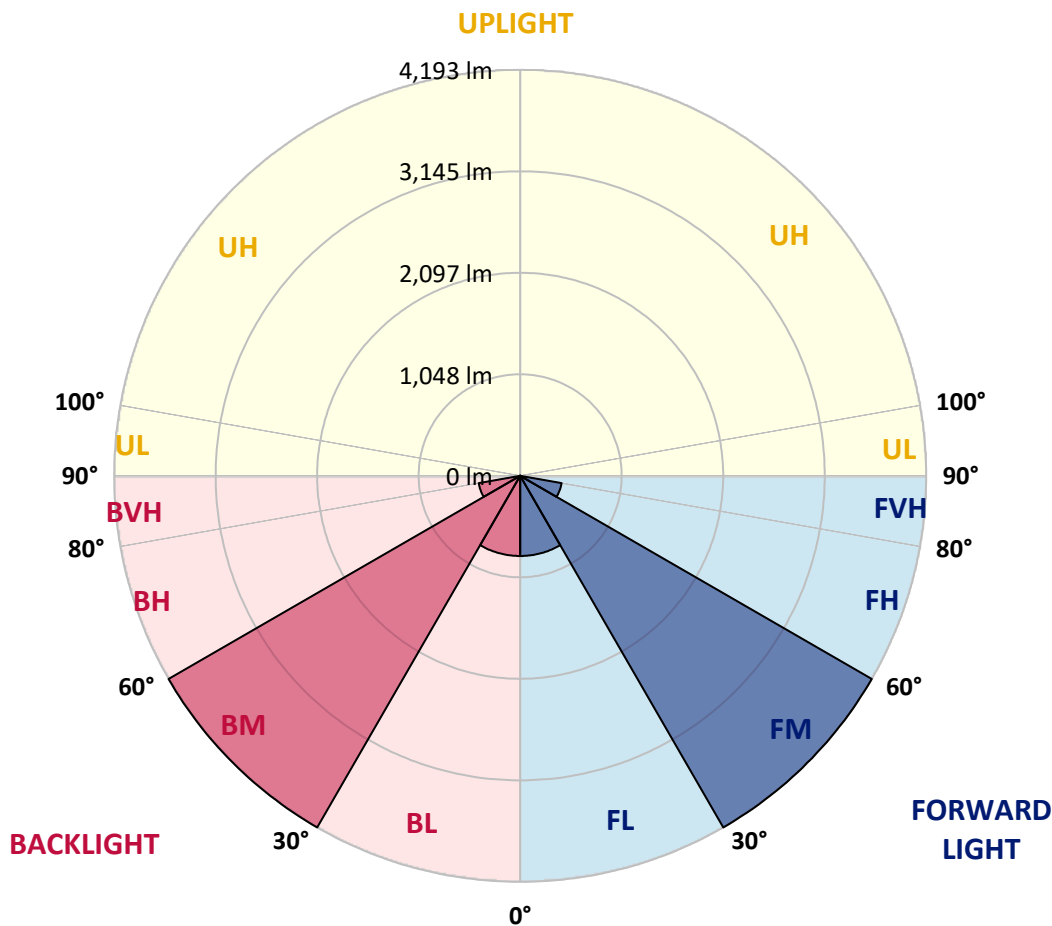
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.0	7.6			
FM	(30°-60°)	4193.3	38.4			
FH	(60°-80°)	434.7	4.0			G0/660
FVH	(80°-90°)	5.0	0.0			G0/10
BL	(0°-30°)	828.0	7.6	B2/1000		
BM	(30°-60°)	4193.3	38.4	B3/5000		
BH	(60°-80°)	434.7	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°	1913.8	1913.8	1913.8	1913.8	1913.8	1913.8	1913.8	1913.8	1913.8	1913.8	1913.8
2.5°	1917.7	1917.7	1919.7	1921.7	1907.8	1901.9	1903.9	1899.9	1897.9	1903.9	1903.9
5°	1911.8	1911.8	1905.9	1907.8	1907.8	1890.0	1890.0	1894.0	1894.0	1882.1	1878.1
7.5°	1896.0	1892.0	1884.1	1894.0	1888.0	1888.0	1874.2	1864.3	1860.3	1868.3	1860.3
10°	1862.3	1864.3	1872.2	1876.2	1872.2	1884.1	1860.3	1846.5	1832.6	1826.7	1826.7
12.5°	1846.5	1858.4	1846.5	1856.4	1870.2	1860.3	1846.5	1836.6	1816.8	1808.9	1808.9
15°	1844.5	1852.4	1856.4	1870.2	1864.3	1868.3	1840.5	1828.7	1799.0	1785.1	1779.2
17.5°	1842.5	1852.4	1858.4	1884.1	1888.0	1890.0	1868.3	1832.6	1806.9	1793.0	1779.2
20°	1864.3	1868.3	1880.1	1905.9	1921.7	1949.4	1909.8	1872.2	1816.8	1801.0	1795.0
22.5°	1892.0	1911.8	1923.7	1951.4	1992.9	2016.7	1965.2	1917.7	1860.3	1840.5	1816.8
25°	1981.1	1977.1	1996.9	2054.3	2087.9	2105.7	2064.2	1994.9	1919.7	1896.0	1899.9
27.5°	2091.9	2095.8	2113.7	2177.0	2226.5	2254.2	2204.7	2113.7	2040.4	2000.8	1996.9
30°	2236.4	2232.4	2252.2	2337.3	2426.4	2467.9	2380.8	2274.0	2202.7	2151.3	2163.1
32.5°	2388.7	2390.7	2446.1	2523.3	2667.8	2748.9	2608.4	2477.8	2370.9	2335.3	2317.5
35°	2614.4	2624.3	2667.8	2786.5	2946.8	3051.7	2897.4	2741.0	2618.3	2553.0	2560.9
37.5°	2893.4	2883.5	2956.7	3085.4	3253.6	3330.8	3200.2	3022.1	2897.4	2853.8	2881.5
40°	3190.3	3200.2	3237.8	3354.5	3542.6	3594.0	3400.1	3303.1	3194.2	3172.5	3206.1
42.5°	3487.1	3481.2	3508.9	3613.8	3750.4	3714.7	3599.9	3542.6	3465.4	3421.8	3467.3
45°	3704.8	3694.9	3746.4	3817.6	3867.1	3799.8	3748.4	3728.6	3689.0	3641.5	3683.1
47.5°	3916.6	3908.7	3958.2	3977.9	3981.9	3892.8	3902.7	3938.4	3839.4	3740.5	3788.0
50°	4096.7	4082.8	4144.2	4187.7	4177.8	4035.3	4071.0	4035.3	3881.0	3764.2	3746.4
52.5°	4397.5	4403.5	4468.8	4547.9	4524.2	4405.4	4354.0	4191.7	3993.8	3888.9	3827.5
55°	4587.5	4557.8	4670.6	4922.0	4949.7	4827.0	4599.4	4359.9	4063.0	3934.4	3918.6
56°	4409.4	4447.0	4625.1	4906.1	5048.6	4935.8	4605.3	4318.4	3991.8	3817.6	3805.8
57.5°	3956.2	3936.4	4177.8	4561.8	4949.7	4902.2	4443.0	4021.5	3641.5	3445.6	3421.8
60°	2462.0	2519.4	2731.1	3206.1	3724.6	3748.4	3293.2	2931.0	2487.7	2313.5	2355.1
62.5°	963.8	914.3	1046.9	1401.2	1757.4	1836.6	1664.4	1383.4	1136.0	963.8	951.9
65°	223.6	217.7	245.4	338.4	473.0	548.2	520.5	374.0	275.1	261.2	241.4
67.5°	126.7	126.7	120.7	120.7	132.6	140.5	134.6	132.6	138.5	144.5	142.5
70°	89.1	87.1	83.1	85.1	81.1	81.1	87.1	97.0	104.9	104.9	106.9
72.5°	53.4	53.4	53.4	59.4	59.4	59.4	65.3	73.2	75.2	73.2	71.2
75°	23.7	23.7	27.7	33.6	37.6	39.6	45.5	49.5	53.4	49.5	45.5
77.5°	5.9	5.9	9.9	13.9	17.8	21.8	29.7	35.6	37.6	35.6	29.7
80°	2.0	2.0	4.0	9.9	17.8	21.8	29.7	31.7	33.6	29.7	23.7
82.5°	2.0	2.0	4.0	9.9	13.9	17.8	23.7	27.7	29.7	25.7	23.7
85°	0.0	2.0	4.0	7.9	11.9	15.8	15.8	11.9	9.9	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)