

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: P647928

Luminaire Tested: **GALN-SA5A-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18500.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

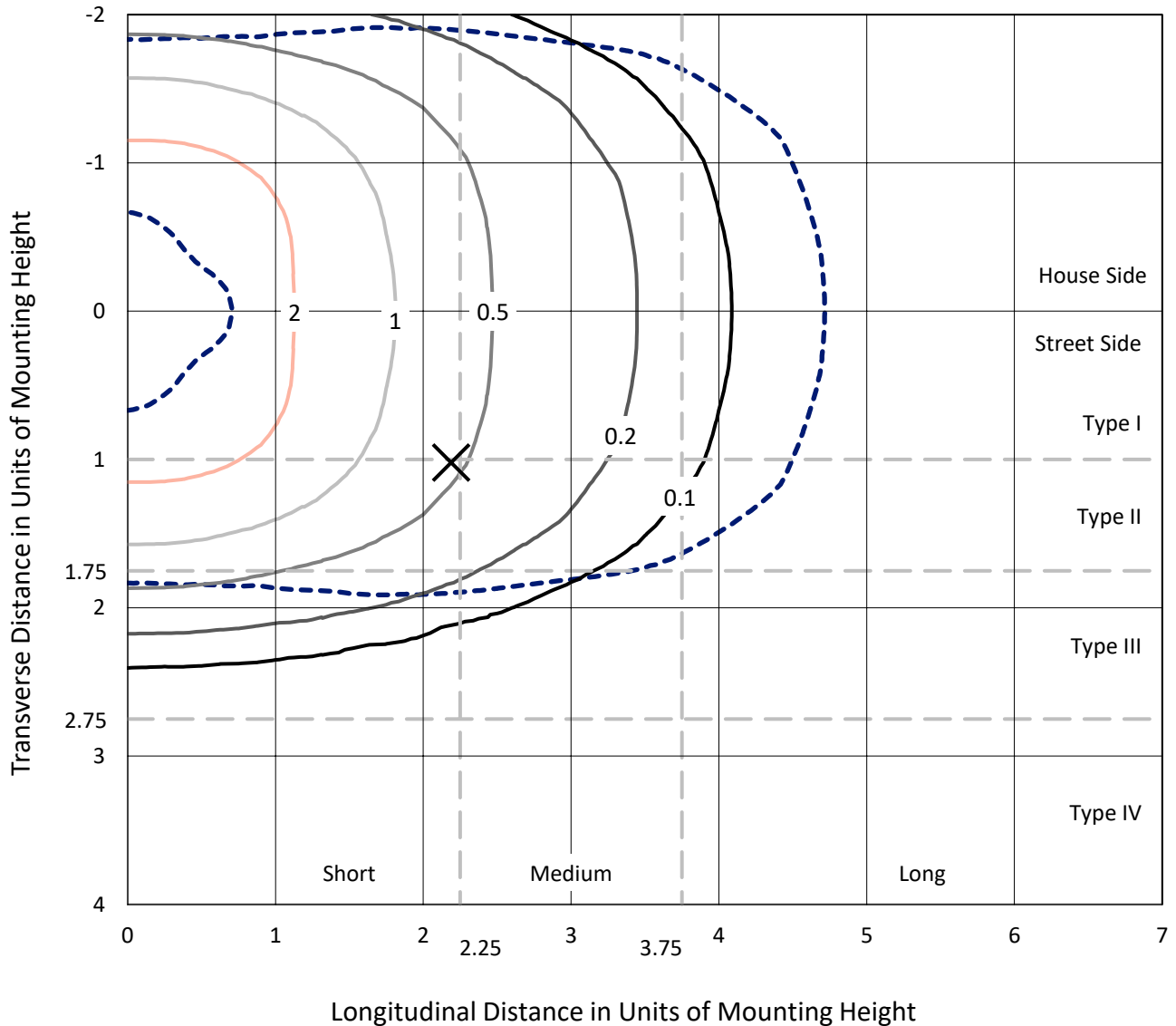
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

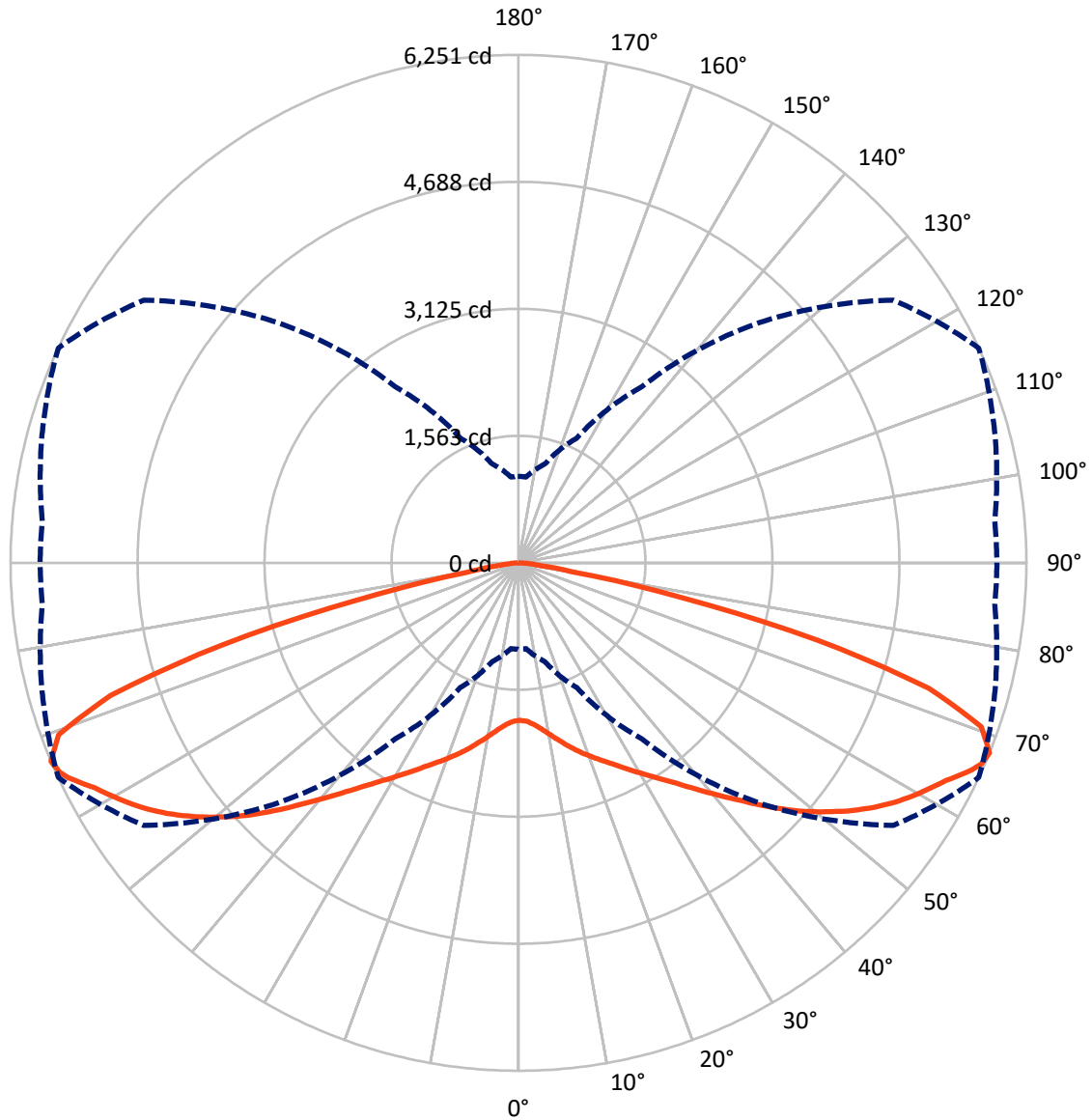
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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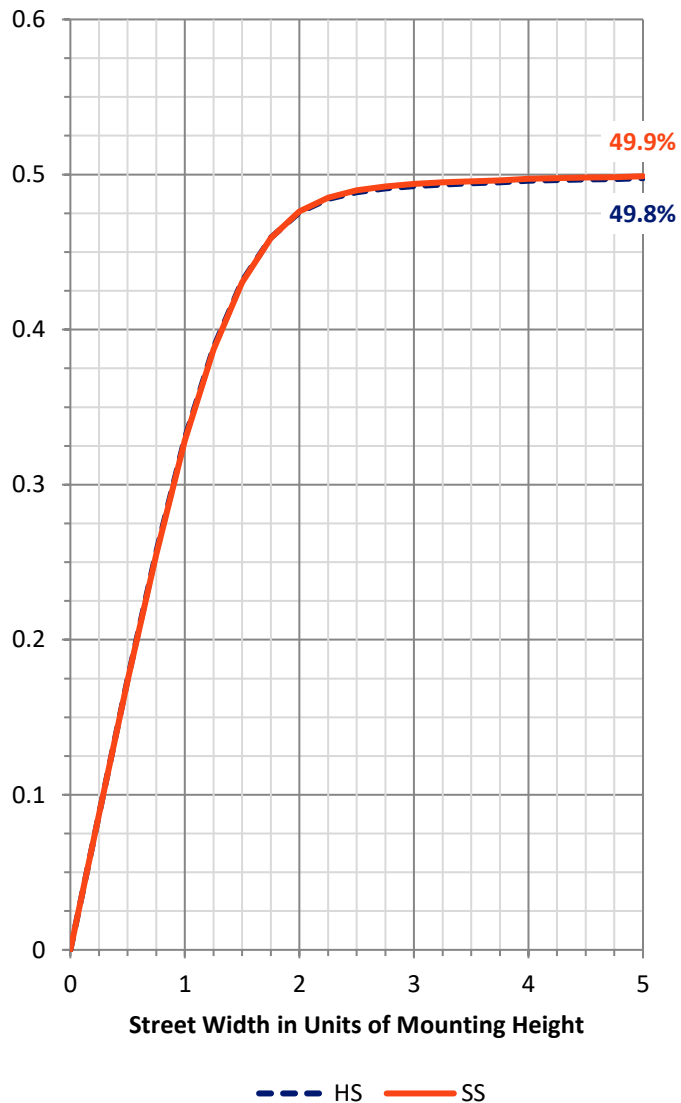
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9250.4	0.0	9250.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9250.4	0.0	9250.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18500.7	0.0	18500.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	1.0
10°-20°	639.7	3.5
20°-30°	1251.2	6.8
30°-40°	2128.1	11.5
40°-50°	3368.2	18.2
50°-60°	4466.2	24.1
60°-70°	4213.0	22.8
70°-80°	2082.7	11.3
80°-90°	160.5	0.9
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°	18500.7	100.0
0°-180°	18500.7	100.0

Coefficient of Utilization

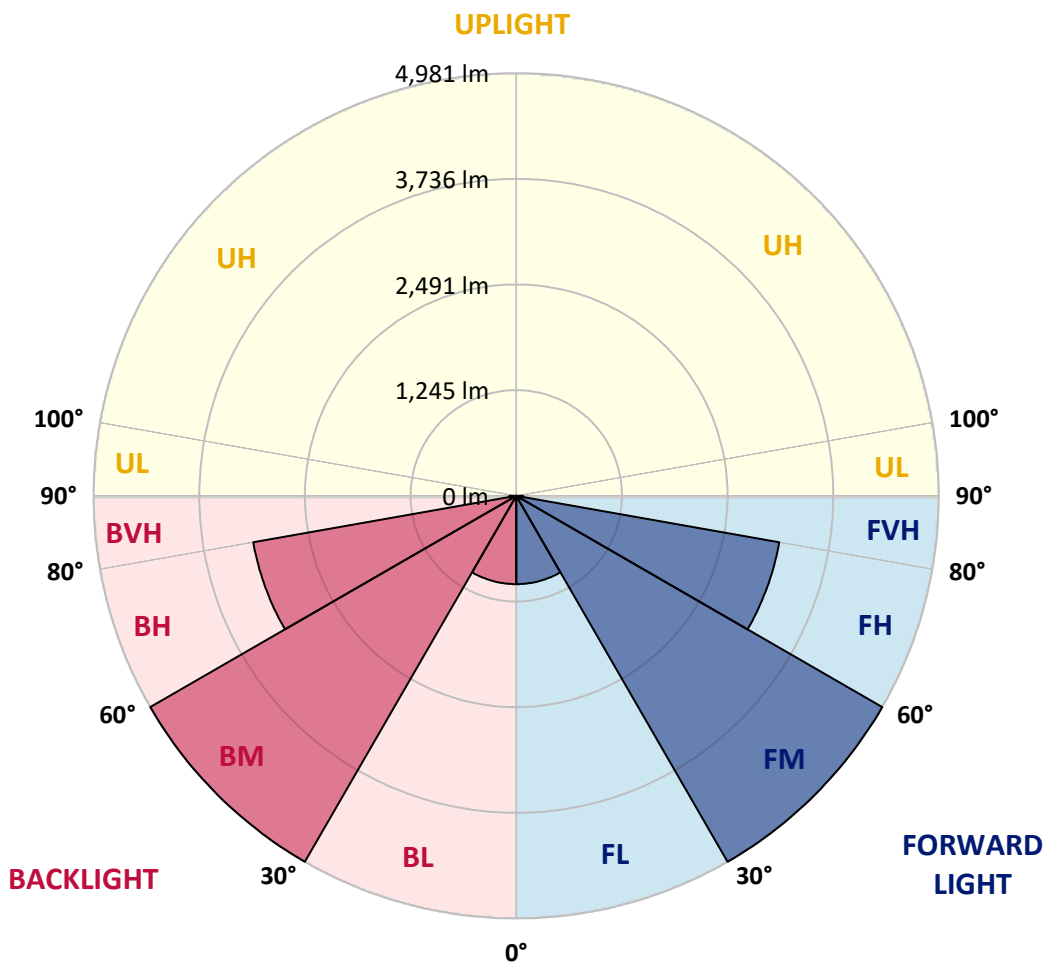


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.0	5.6			
FM (30°-60°)	4981.3	26.9			
FH (60°-80°)	3147.8	17.0			G2/5000
FVH (80°-90°)	80.3	0.4			G1/100
BL (0°-30°)	1041.0	5.6	B3/2500		
BM (30°-60°)	4981.3	26.9	B3/5000		
BH (60°-80°)	3147.8	17.0	B4/5000		G4/5000
BVH (80°-90°)	80.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1937.8	1937.8	1937.8	1937.8	1937.8	1937.8	1937.8	1937.8	1937.8	1937.8	1937.8
2.5°	1927.9	1929.9	1931.8	1934.8	1938.8	1944.7	1948.7	1951.6	1959.6	1960.6	1959.6
5°	1920.9	1922.9	1927.9	1936.8	1949.7	1967.5	1981.4	1998.2	2011.1	2020.1	2018.1
7.5°	1919.9	1923.9	1931.8	1950.7	1975.4	2006.2	2037.9	2066.7	2091.4	2111.3	2108.3
10°	1935.8	1940.7	1953.7	1981.4	2020.1	2064.7	2109.2	2151.9	2187.5	2213.3	2222.2
12.5°	1962.6	1966.5	1990.3	2032.0	2087.5	2143.0	2193.5	2246.0	2295.6	2339.2	2339.2
15°	2009.2	2016.1	2045.8	2106.3	2174.7	2239.1	2290.7	2346.2	2399.7	2449.2	2464.1
17.5°	2073.6	2083.5	2128.1	2205.4	2292.6	2352.1	2400.7	2446.2	2492.8	2540.4	2547.3
20°	2161.8	2171.7	2231.2	2324.3	2427.5	2498.8	2531.5	2542.4	2565.2	2610.8	2616.8
22.5°	2281.7	2291.6	2358.1	2463.1	2578.1	2655.4	2669.3	2643.5	2637.5	2673.2	2677.2
25°	2417.5	2426.4	2502.8	2615.8	2734.7	2819.0	2815.0	2751.5	2715.9	2737.7	2743.6
27.5°	2570.2	2583.0	2660.4	2777.3	2906.2	2980.5	2968.7	2876.4	2800.2	2796.2	2798.1
30°	2765.4	2779.3	2852.6	2964.7	3091.5	3160.0	3135.1	3011.3	2893.3	2853.6	2853.6
32.5°	2971.6	3006.3	3080.6	3197.6	3296.7	3346.3	3308.6	3160.0	3003.4	2947.8	2944.9
35°	3240.2	3259.1	3332.4	3446.4	3520.8	3559.4	3487.0	3327.4	3147.0	3081.7	3072.7
37.5°	3502.9	3518.7	3604.0	3713.0	3803.2	3801.2	3703.1	3526.7	3325.5	3252.1	3246.2
40°	3771.5	3788.4	3885.5	3985.6	4075.8	4067.8	3948.9	3751.7	3537.6	3455.3	3471.2
42.5°	4004.4	4023.3	4133.3	4276.0	4357.3	4355.3	4217.6	3995.5	3772.5	3699.1	3713.0
45°	4216.5	4233.4	4361.2	4524.8	4643.7	4658.6	4508.0	4273.1	4044.1	3949.9	3953.9
47.5°	4366.2	4398.0	4531.8	4719.1	4880.7	4933.2	4785.5	4555.6	4291.9	4193.7	4199.7
50°	4480.2	4500.1	4645.7	4858.8	5063.0	5172.0	5053.1	4817.2	4539.7	4435.6	4449.5
52.5°	4494.1	4517.8	4676.5	4922.3	5183.9	5349.5	5291.0	5073.0	4792.4	4685.4	4715.1
55°	4381.1	4395.0	4584.3	4882.6	5231.5	5481.3	5496.2	5310.9	5033.3	4952.0	4971.8
57.5°	4058.9	4094.6	4334.5	4697.3	5166.1	5551.7	5649.8	5526.9	5277.1	5196.8	5228.6
60°	3530.6	3566.3	3807.2	4267.1	4919.3	5519.0	5776.7	5718.2	5498.1	5433.7	5450.6
62.5°	2766.4	2763.4	3061.8	3625.8	4428.6	5358.4	5870.9	5902.6	5716.2	5634.9	5660.7
65°	1793.1	1802.0	2090.5	2698.1	3688.2	4950.0	5891.7	6137.5	5930.3	5807.4	5826.2
66°	1442.2	1469.0	1713.8	2273.8	3310.6	4682.4	5829.2	6206.8	5995.7	5847.1	5856.0
67.5°	1064.6	1059.6	1260.8	1692.9	2643.5	4173.9	5633.9	6250.5	6070.1	5882.8	5886.7
70°	607.6	606.6	678.0	929.7	1554.2	2938.9	4748.8	6041.3	6220.8	6011.6	6000.7
72.5°	444.0	441.1	451.0	513.4	758.3	1483.8	3275.9	5280.1	6143.4	5990.8	5960.0
75°	372.7	370.7	368.7	376.6	425.2	672.0	1738.6	3798.3	5330.7	5623.0	5591.3
77.5°	304.3	304.3	305.3	303.3	305.3	353.8	720.6	2035.9	3246.2	3623.8	3712.0
80°	237.9	236.9	253.8	246.8	231.0	227.0	319.2	655.2	1077.4	1071.5	884.2
82.5°	175.5	163.6	193.2	188.3	170.5	144.7	186.4	279.5	359.8	234.0	173.4
85°	111.0	110.0	136.8	124.9	104.1	68.4	89.2	120.0	148.7	90.2	73.4
87.5°	19.8	18.9	43.6	31.7	31.7	19.8	24.7	32.7	48.5	33.7	24.7
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)