

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: P454052

Luminaire Tested: **GALN-SA5A-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454052
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-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17370 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

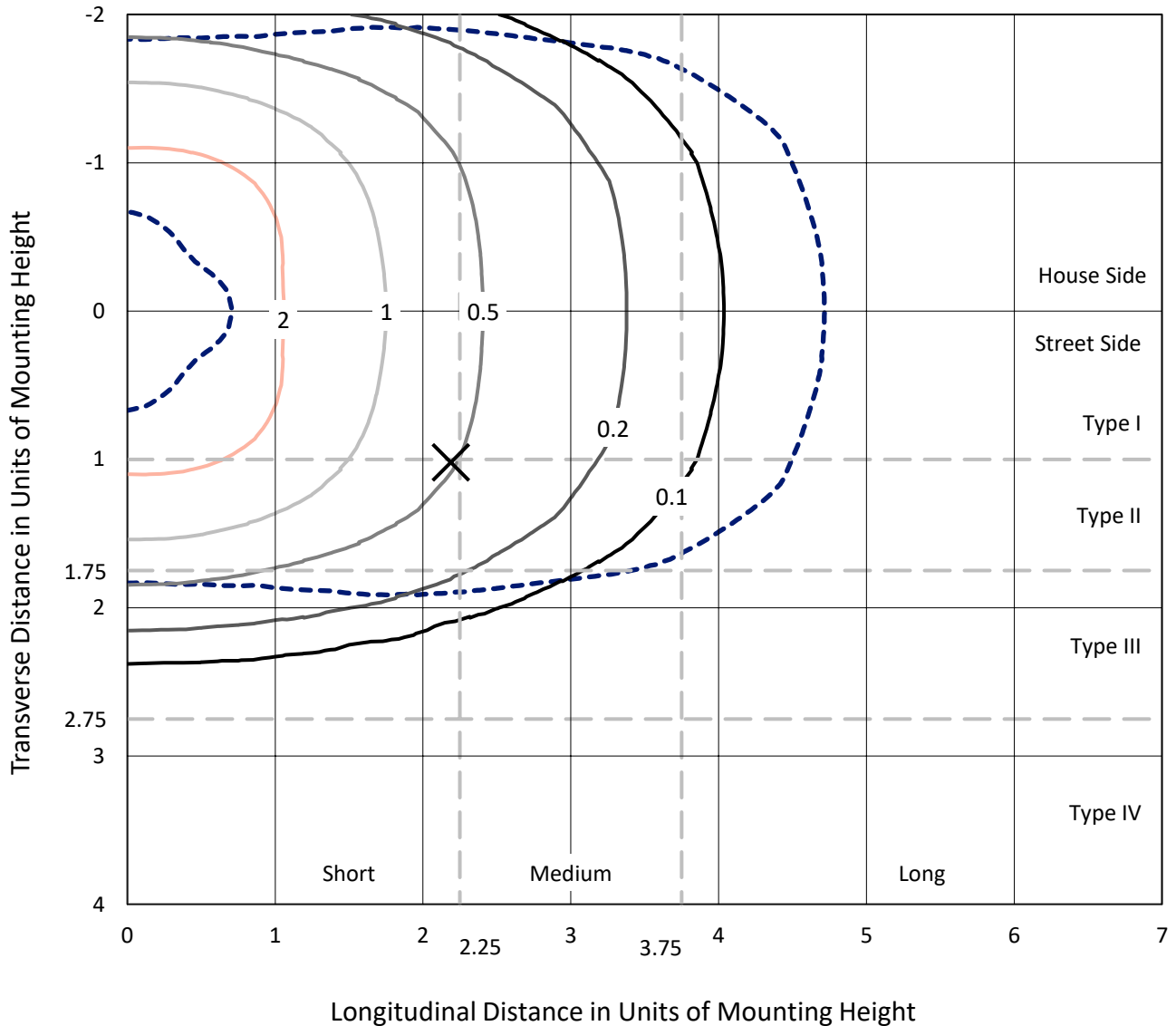
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

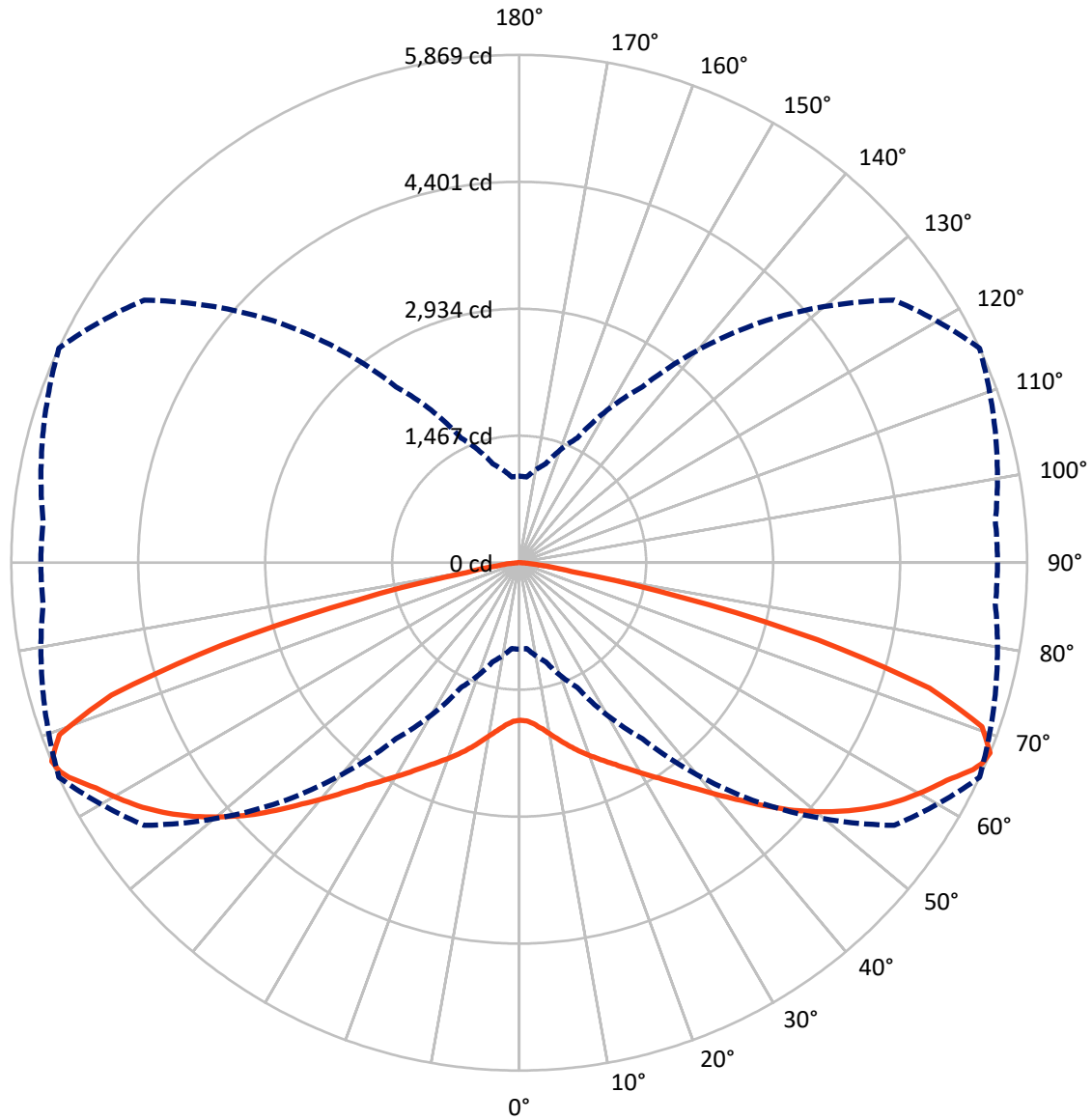
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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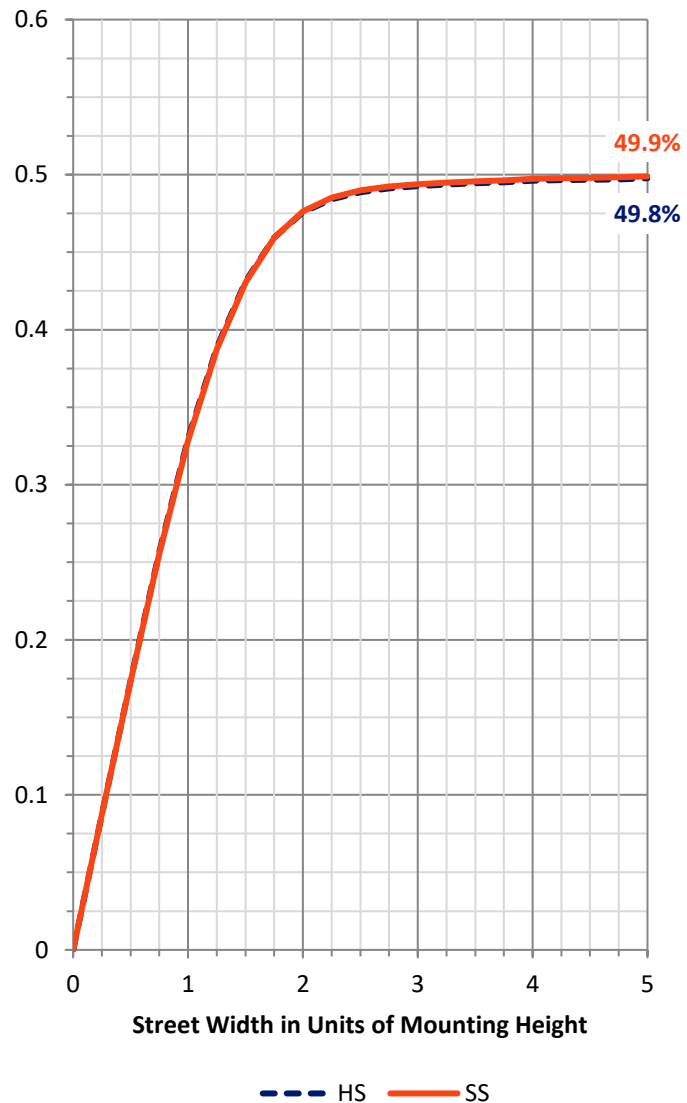
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8685.0	0.0	8685.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8685.0	0.0	8685.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17370.0	0.0	17370.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	1.0
10°-20°	600.6	3.5
20°-30°	1174.7	6.8
30°-40°	1998.1	11.5
40°-50°	3162.4	18.2
50°-60°	4193.2	24.1
60°-70°	3955.5	22.8
70°-80°	1955.4	11.3
80°-90°	150.7	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°	17370.0	100.0
0°-180°	17370.0	100.0



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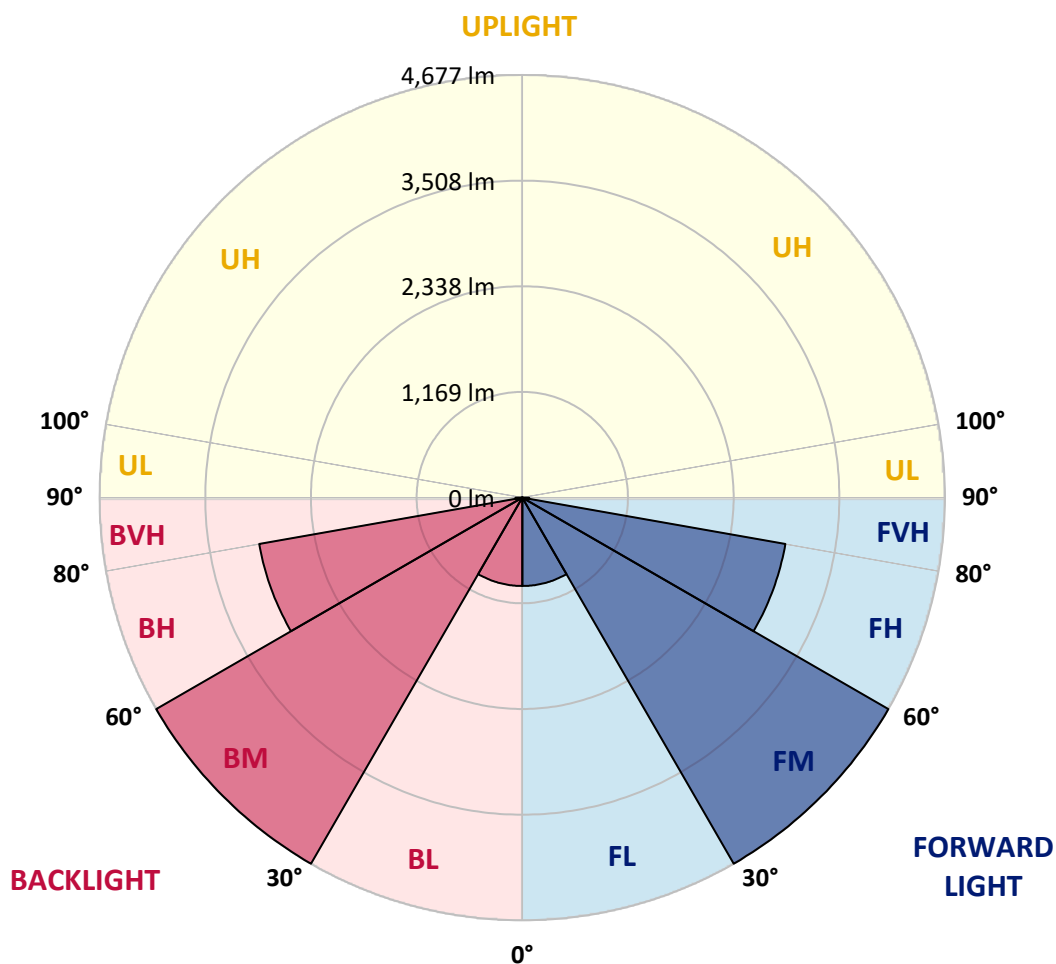
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	977.4	5.6			
FM	(30°-60°)	4676.8	26.9			
FH	(60°-80°)	2955.5	17.0			G2/5000
FVH	(80°-90°)	75.4	0.4			G1/100
BL	(0°-30°)	977.4	5.6	B2/1000		
BM	(30°-60°)	4676.8	26.9	B3/5000		
BH	(60°-80°)	2955.5	17.0	B4/5000		G4/5000
BVH	(80°-90°)	75.4	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°	1819.4	1819.4	1819.4	1819.4	1819.4	1819.4	1819.4	1819.4	1819.4	1819.4	1819.4
2.5°	1810.0	1811.9	1813.8	1816.6	1820.3	1825.9	1829.6	1832.4	1839.8	1840.8	1839.8
5°	1803.5	1805.4	1810.0	1818.4	1830.5	1847.3	1860.3	1876.1	1888.2	1896.6	1894.7
7.5°	1802.6	1806.3	1813.8	1831.5	1854.7	1883.6	1913.3	1940.3	1963.6	1982.2	1979.4
10°	1817.5	1822.1	1834.2	1860.3	1896.6	1938.5	1980.4	2020.4	2053.9	2078.1	2086.4
12.5°	1842.6	1846.3	1868.7	1907.8	1959.9	2012.0	2059.5	2108.8	2155.3	2196.3	2196.3
15°	1886.4	1892.9	1920.8	1977.6	2041.8	2102.3	2150.7	2202.8	2253.0	2299.6	2313.5
17.5°	1946.8	1956.2	1998.0	2070.6	2152.5	2208.4	2254.0	2296.8	2340.5	2385.2	2391.7
20°	2029.7	2039.0	2094.8	2182.3	2279.1	2346.1	2376.8	2387.0	2408.4	2451.2	2456.8
22.5°	2142.3	2151.6	2213.9	2312.6	2420.5	2493.1	2506.1	2482.0	2476.4	2509.9	2513.6
25°	2269.8	2278.1	2349.8	2455.9	2567.6	2646.7	2642.9	2583.4	2549.9	2570.4	2575.9
27.5°	2413.1	2425.2	2497.8	2607.6	2728.6	2798.4	2787.2	2700.6	2629.0	2625.3	2627.1
30°	2596.4	2609.4	2678.3	2783.5	2902.6	2966.8	2943.5	2827.2	2716.5	2679.2	2679.2
32.5°	2790.0	2822.6	2892.4	3002.2	3095.2	3141.8	3106.4	2966.8	2819.8	2767.7	2764.9
35°	3042.2	3059.9	3128.7	3235.8	3305.5	3341.8	3273.9	3124.1	2954.7	2893.3	2884.9
37.5°	3288.8	3303.7	3383.7	3486.1	3570.8	3568.9	3476.8	3311.1	3122.2	3053.4	3047.8
40°	3541.0	3556.8	3648.0	3742.0	3826.7	3819.2	3707.6	3522.4	3321.4	3244.1	3259.0
42.5°	3759.7	3777.4	3880.7	4014.7	4091.0	4089.1	3959.8	3751.3	3541.9	3473.1	3486.1
45°	3958.8	3974.7	4094.7	4248.3	4359.9	4373.9	4232.4	4011.9	3796.9	3708.5	3712.2
47.5°	4099.4	4129.1	4254.8	4430.7	4582.4	4631.7	4493.0	4277.1	4029.6	3937.4	3943.0
50°	4206.4	4225.0	4361.8	4561.9	4753.6	4856.0	4744.3	4522.8	4262.2	4164.5	4177.5
52.5°	4219.4	4241.7	4390.6	4621.4	4867.1	5022.5	4967.6	4762.9	4499.5	4399.0	4426.9
55°	4113.3	4126.4	4304.1	4584.2	4911.8	5146.3	5160.3	4986.2	4725.7	4649.4	4668.0
57.5°	3810.9	3844.4	4069.6	4410.2	4850.4	5212.4	5304.5	5189.1	4954.6	4879.2	4909.0
60°	3314.9	3348.4	3574.5	4006.3	4618.6	5181.7	5423.6	5368.7	5162.1	5101.6	5117.5
62.5°	2597.3	2594.6	2874.7	3404.2	4158.0	5030.9	5512.0	5541.8	5366.9	5290.6	5314.7
65°	1683.5	1691.9	1962.7	2533.1	3462.8	4647.5	5531.6	5762.4	5567.9	5452.5	5470.2
66°	1354.0	1379.2	1609.0	2134.8	3108.3	4396.2	5473.0	5827.5	5629.3	5489.7	5498.1
67.5°	999.5	994.8	1183.7	1589.5	2482.0	3918.8	5289.6	5868.5	5699.1	5523.2	5526.9
70°	570.5	569.5	636.5	872.9	1459.2	2759.3	4458.6	5672.1	5840.5	5644.2	5633.9
72.5°	416.9	414.1	423.4	482.1	711.9	1393.1	3075.7	4957.4	5768.0	5624.6	5595.8
75°	349.9	348.1	346.2	353.6	399.2	631.0	1632.3	3566.1	5004.9	5279.4	5249.6
77.5°	285.7	285.7	286.6	284.8	286.6	332.2	676.6	1911.5	3047.8	3402.3	3485.2
80°	223.3	222.4	238.2	231.7	216.8	213.1	299.7	615.1	1011.6	1006.0	830.1
82.5°	164.7	153.6	181.5	176.8	160.1	135.9	175.0	262.4	337.8	219.6	162.9
85°	104.2	103.3	128.4	117.3	97.7	64.2	83.8	112.6	139.6	84.7	68.9
87.5°	18.6	17.7	40.9	29.8	29.8	18.6	23.3	30.7	45.6	31.6	23.3
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)