

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: P648368

Luminaire Tested: **GALN-SA4B-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648368
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-SA4B-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18184.4 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

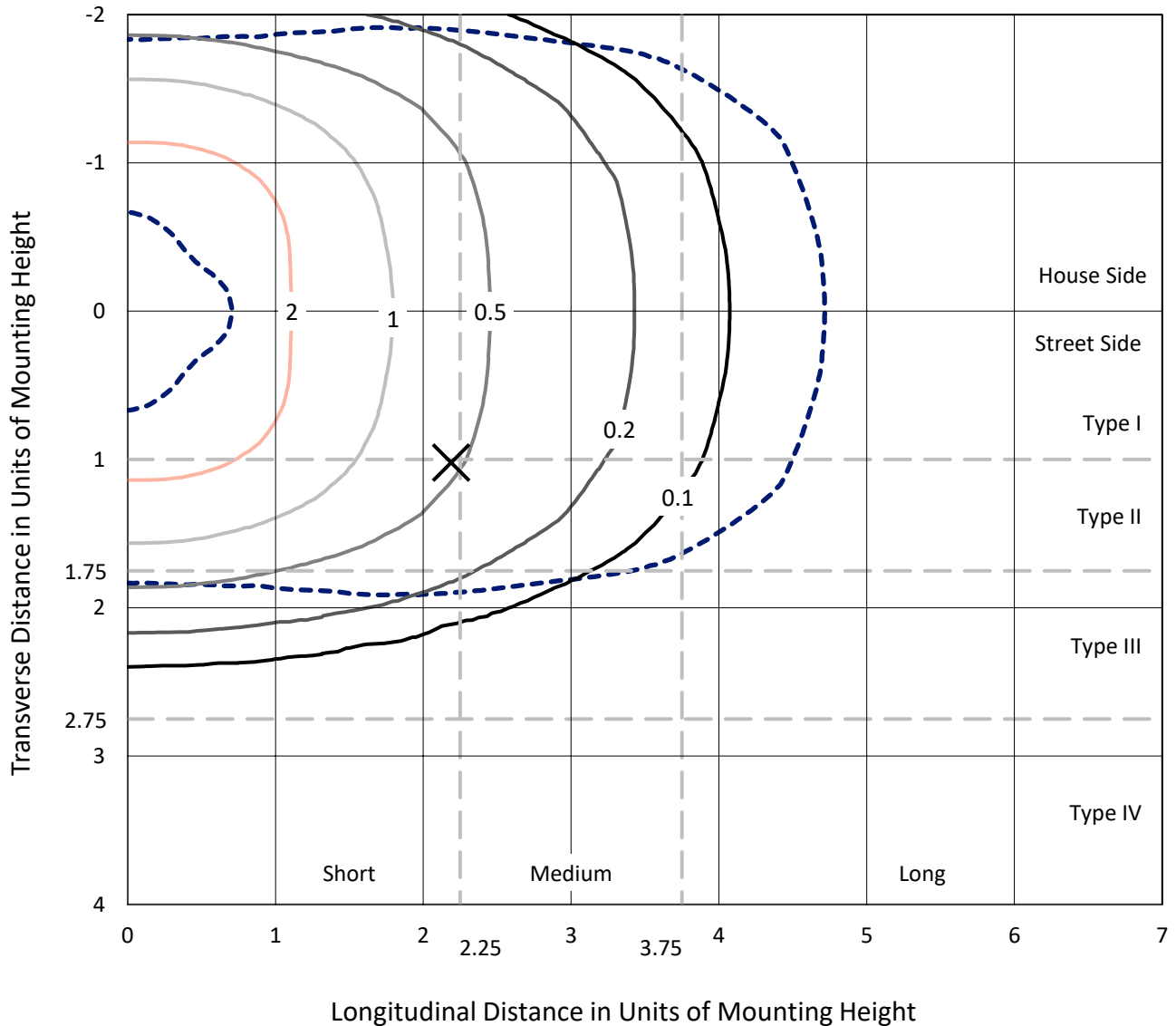
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

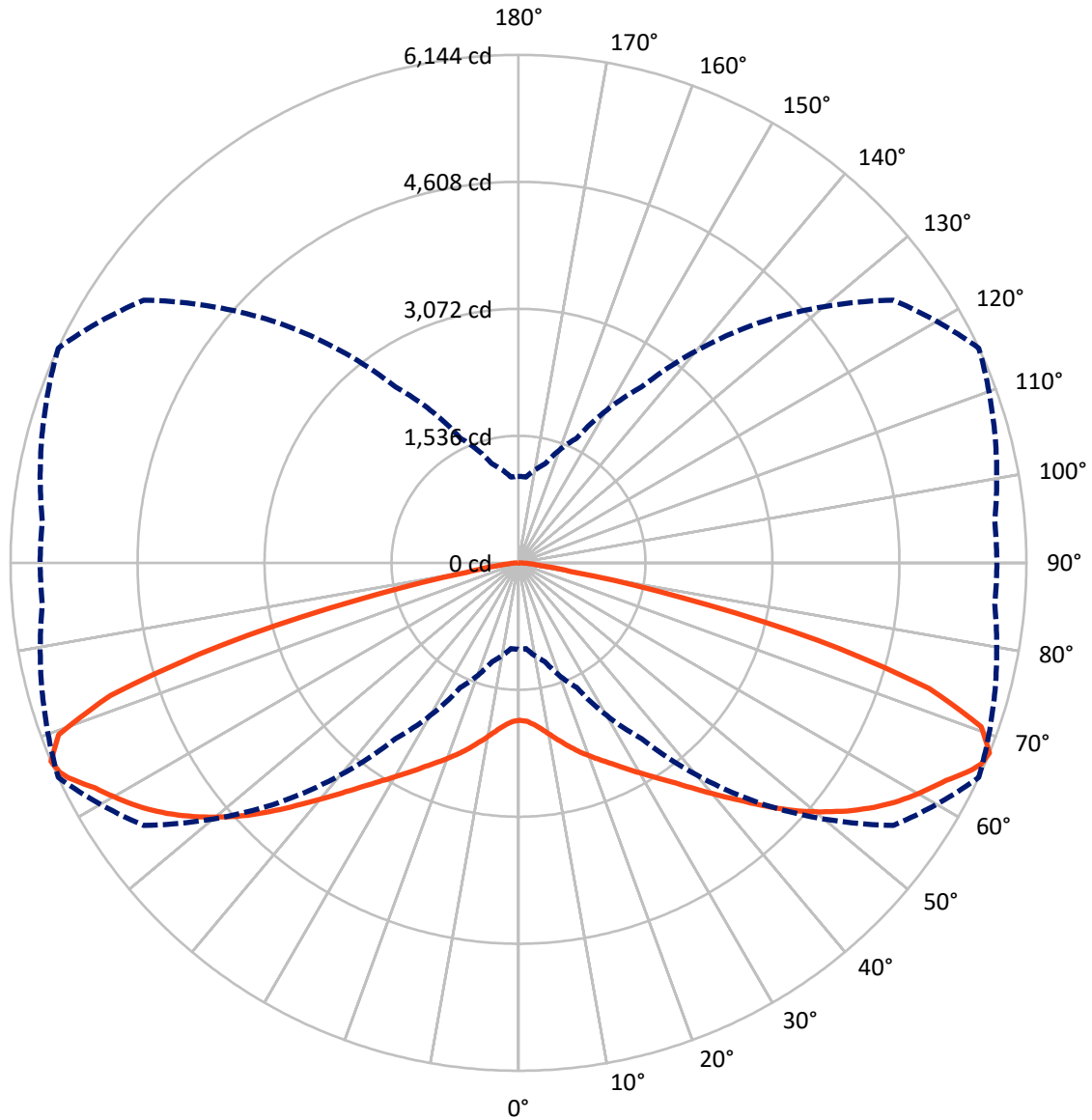
× Max cd
 - - - 1/2 Max cd



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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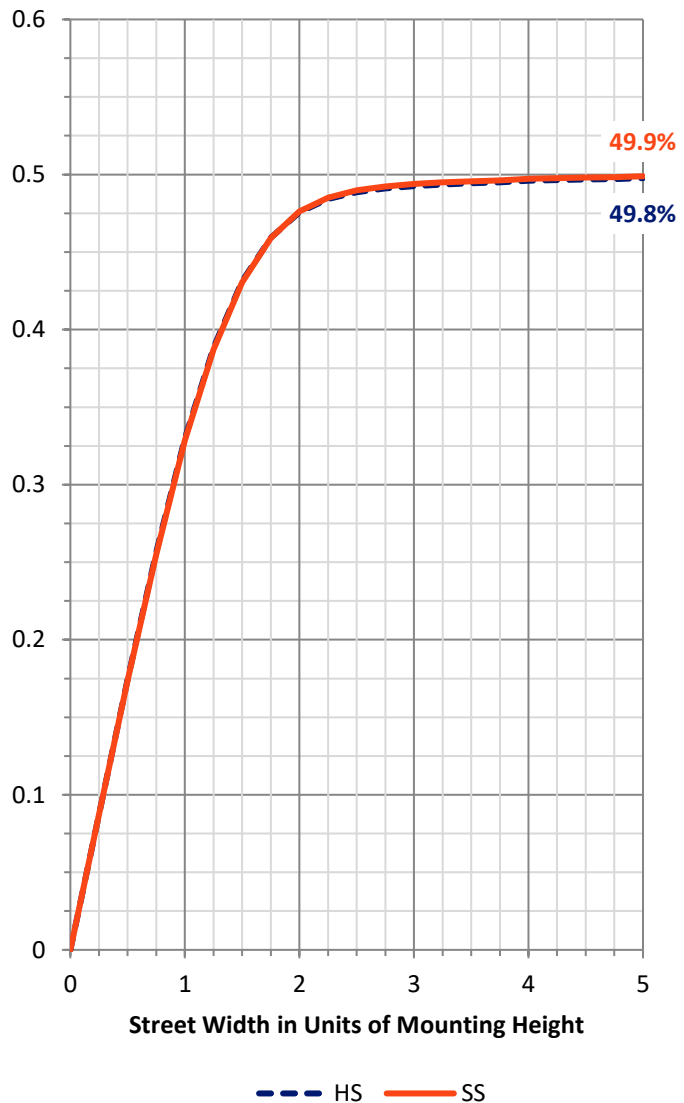
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9092.2	0.0	9092.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9092.2	0.0	9092.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18184.4	0.0	18184.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.0
10°-20°	628.7	3.5
20°-30°	1229.8	6.8
30°-40°	2091.8	11.5
40°-50°	3310.6	18.2
50°-60°	4389.8	24.1
60°-70°	4140.9	22.8
70°-80°	2047.1	11.3
80°-90°	157.8	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°	18184.4	100.0
0°-180°	18184.4	100.0

Coefficient of Utilization

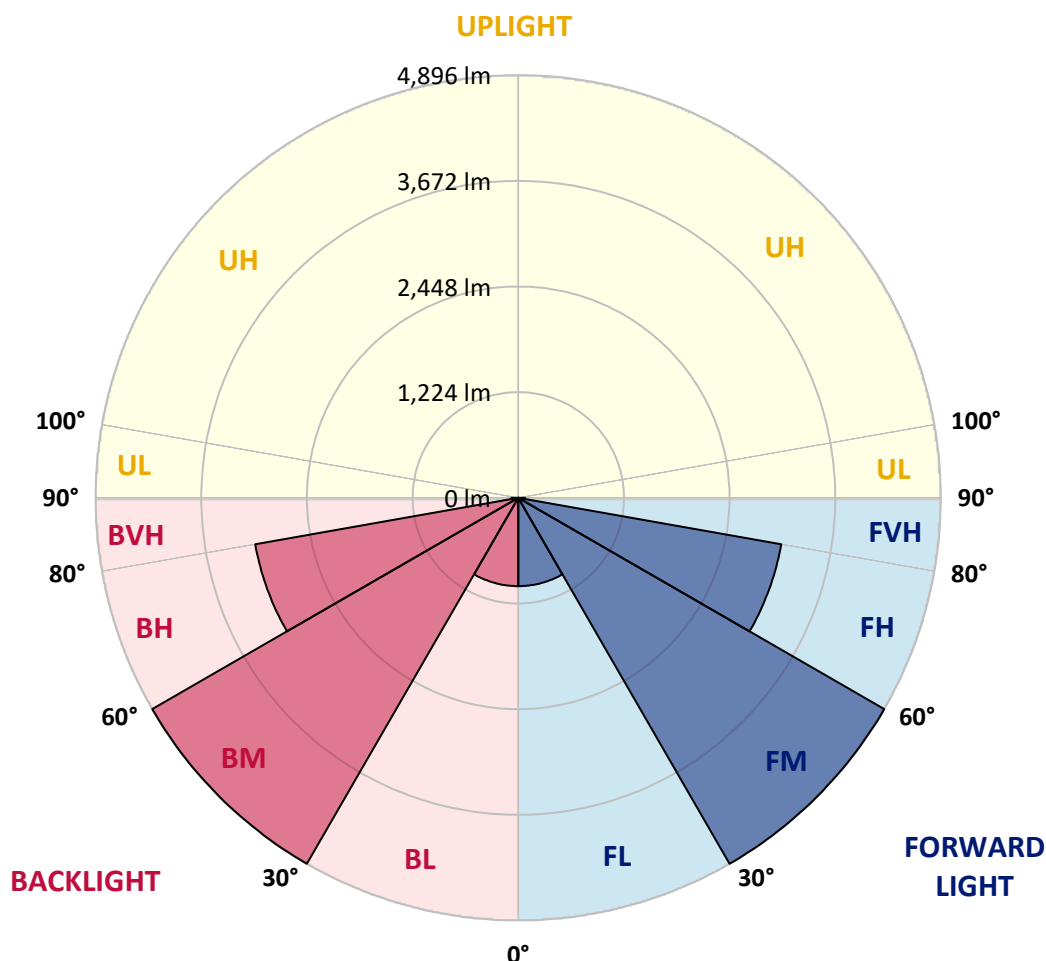


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1023.2	5.6			
FM	(30°-60°)	4896.1	26.9			
FH	(60°-80°)	3094.0	17.0			G2/5000
FVH	(80°-90°)	78.9	0.4			G1/100
BL	(0°-30°)	1023.2	5.6	B3/2500		
BM	(30°-60°)	4896.1	26.9	B3/5000		
BH	(60°-80°)	3094.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	78.9	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°	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6	1904.6
2.5°	1894.9	1896.9	1898.8	1901.8	1905.7	1911.5	1915.4	1918.3	1926.1	1927.0	1926.1
5°	1888.1	1890.0	1894.9	1903.7	1916.3	1933.9	1947.6	1964.1	1976.8	1985.5	1983.6
7.5°	1887.1	1891.0	1898.8	1917.3	1941.7	1971.9	2003.1	2031.3	2055.7	2075.2	2072.2
10°	1902.7	1907.5	1920.2	1947.6	1985.5	2029.4	2073.2	2115.1	2150.2	2175.5	2184.3
12.5°	1929.0	1932.9	1956.3	1997.2	2051.8	2106.3	2156.0	2207.7	2256.4	2299.2	2299.2
15°	1974.8	1981.6	2010.8	2070.3	2137.5	2200.9	2251.5	2306.0	2358.6	2407.3	2422.0
17.5°	2038.1	2047.9	2091.7	2167.7	2253.5	2311.9	2359.6	2404.4	2450.2	2497.0	2503.8
20°	2124.8	2134.6	2193.0	2284.6	2386.0	2456.1	2488.2	2498.9	2521.3	2566.2	2572.0
22.5°	2242.7	2252.5	2317.8	2421.0	2534.0	2610.0	2623.7	2598.3	2592.4	2627.5	2631.4
25°	2376.2	2384.9	2460.0	2571.1	2688.0	2770.7	2766.9	2704.5	2669.4	2690.9	2696.7
27.5°	2526.2	2538.9	2614.9	2729.9	2856.5	2929.6	2917.8	2827.3	2752.2	2748.3	2750.3
30°	2718.2	2731.8	2803.9	2914.0	3038.7	3105.9	3081.6	2959.7	2843.9	2804.9	2804.9
32.5°	2920.8	2954.9	3027.9	3143.0	3240.4	3289.1	3252.0	3105.9	2952.0	2897.4	2894.5
35°	3184.9	3203.3	3275.4	3387.5	3460.5	3498.5	3427.4	3270.5	3093.2	3029.0	3020.2
37.5°	3443.0	3458.6	3542.4	3649.6	3738.2	3736.2	3639.8	3466.3	3268.6	3196.5	3190.6
40°	3707.0	3723.6	3819.1	3917.4	4006.1	3998.3	3881.4	3687.5	3477.1	3396.3	3411.8
42.5°	3936.0	3954.5	4062.6	4202.9	4282.8	4280.8	4145.4	3927.2	3708.0	3635.9	3649.6
45°	4144.4	4161.0	4286.7	4447.4	4564.3	4579.0	4430.8	4200.0	3974.9	3882.3	3886.3
47.5°	4291.5	4322.7	4454.3	4638.4	4797.2	4848.8	4703.6	4477.7	4218.5	4122.0	4127.9
50°	4403.6	4423.1	4566.3	4775.8	4976.4	5083.6	4966.7	4734.9	4462.1	4359.7	4373.4
52.5°	4417.2	4440.6	4596.5	4838.1	5095.3	5258.0	5200.5	4986.2	4710.4	4605.3	4634.5
55°	4306.2	4319.8	4505.9	4799.2	5142.1	5387.6	5402.2	5220.0	4947.2	4867.4	4886.9
57.5°	3989.5	4024.6	4260.4	4617.0	5077.8	5456.7	5553.2	5432.4	5186.9	5108.0	5139.1
60°	3470.3	3505.3	3742.1	4194.1	4835.2	5424.6	5677.9	5620.5	5404.2	5340.8	5357.4
62.5°	2719.1	2716.2	3009.5	3563.8	4352.9	5266.8	5770.5	5801.6	5618.5	5538.6	5563.9
65°	1762.4	1771.1	2054.7	2651.9	3625.2	4865.4	5790.9	6032.5	5828.9	5708.1	5726.6
66°	1417.5	1443.9	1684.5	2234.9	3254.0	4602.3	5729.5	6100.7	5893.2	5747.1	5755.8
67.5°	1046.3	1041.5	1239.3	1664.0	2598.3	4102.5	5537.6	6143.6	5966.3	5782.1	5786.1
70°	597.2	596.3	666.4	913.8	1527.6	2888.6	4667.6	5938.0	6114.4	5908.8	5898.1
72.5°	436.4	433.5	443.3	504.6	745.3	1458.4	3219.9	5189.8	6038.4	5888.3	5858.2
75°	366.3	364.3	362.5	370.2	418.0	660.5	1708.8	3733.3	5239.5	5526.9	5495.7
77.5°	299.1	299.1	300.0	298.1	300.0	347.8	708.3	2001.1	3190.6	3561.9	3648.5
80°	233.8	232.9	249.4	242.6	227.0	223.1	313.7	643.9	1059.0	1053.1	869.1
82.5°	172.4	160.7	190.0	185.1	167.6	142.3	183.1	274.8	353.7	229.9	170.5
85°	109.2	108.1	134.4	122.8	102.3	67.3	87.7	117.9	146.1	88.6	72.1
87.5°	19.5	18.5	42.8	31.2	31.2	19.5	24.4	32.2	47.8	33.1	24.4
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)