

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: P647915

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18807.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

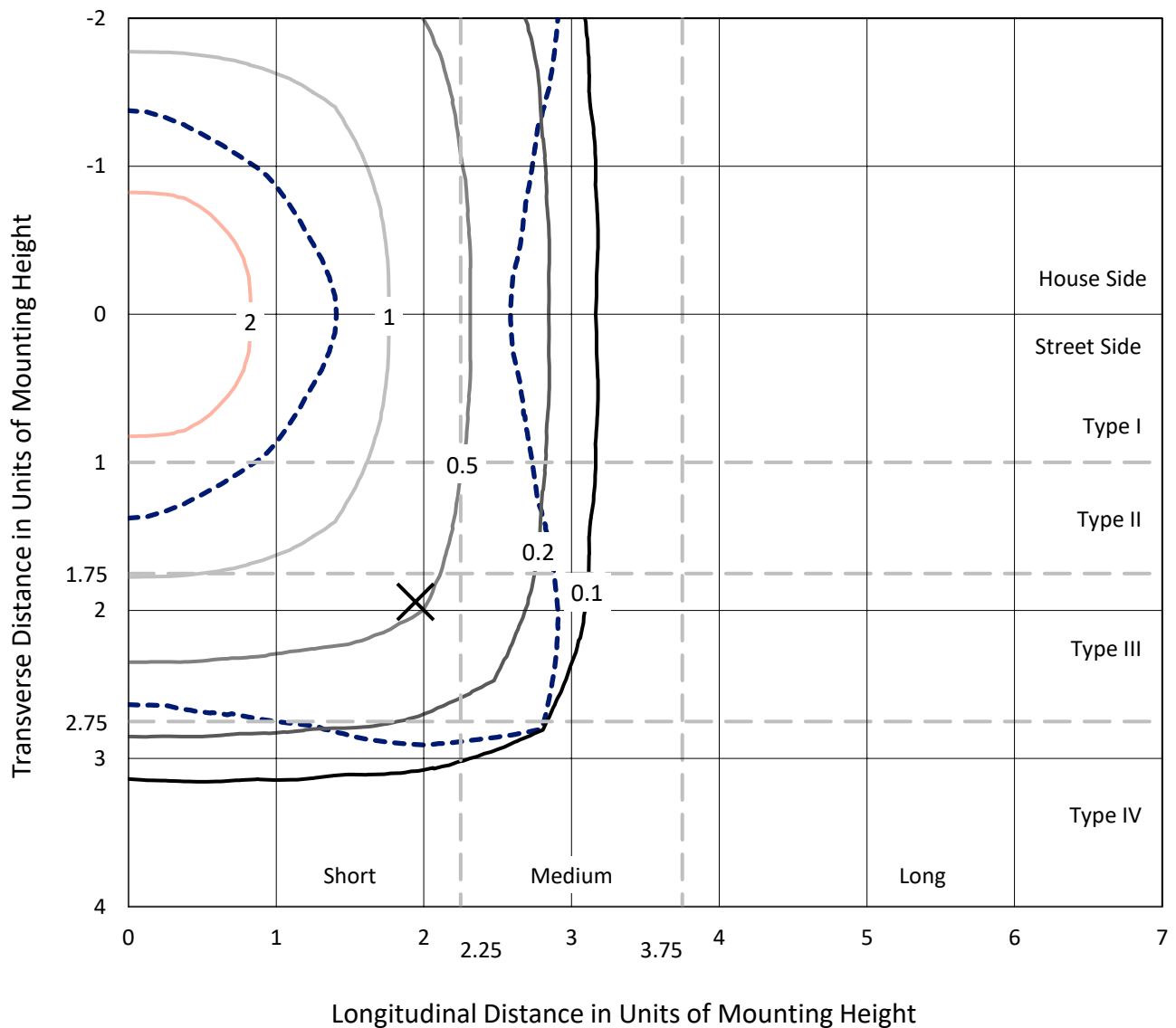
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

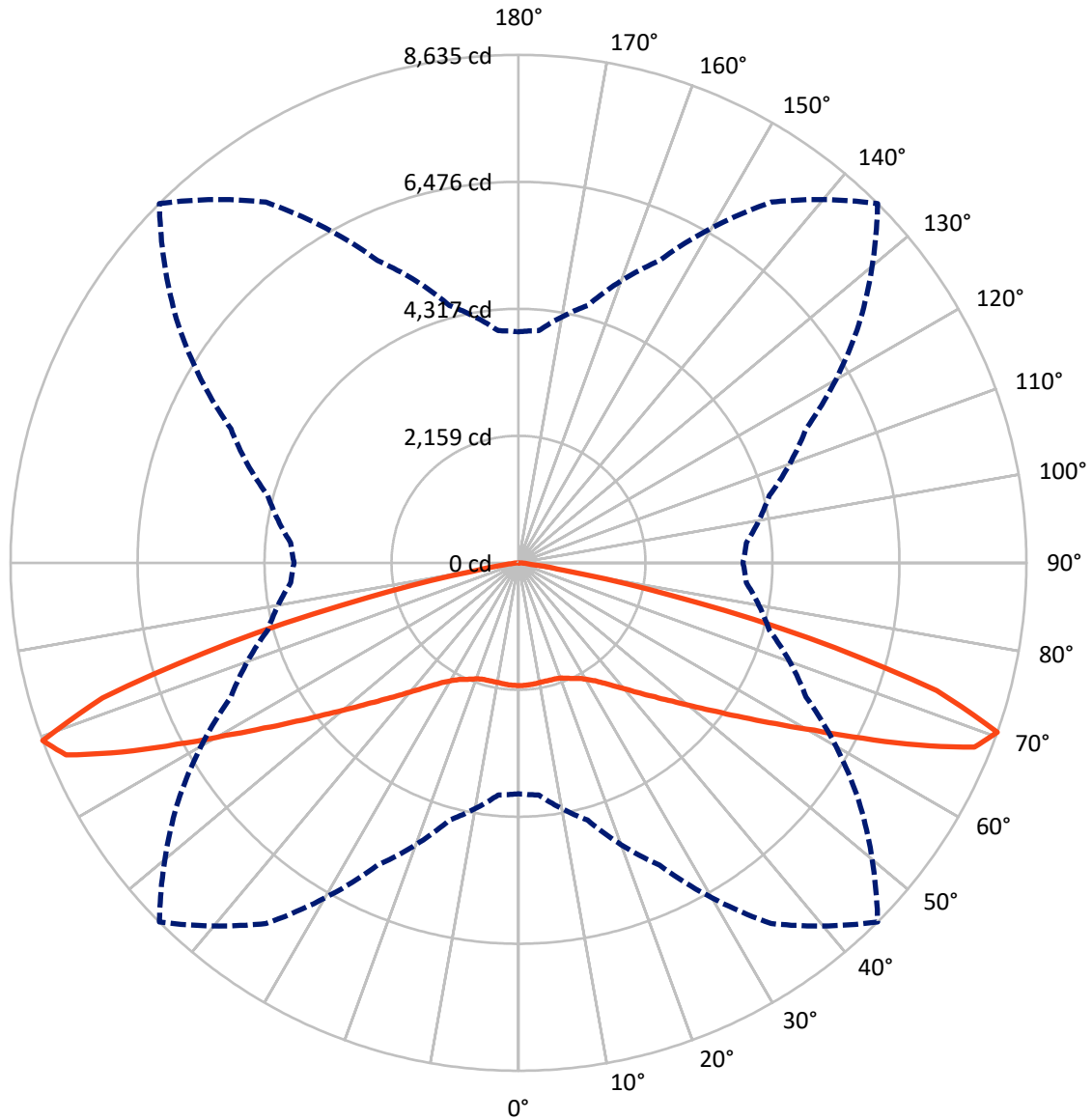
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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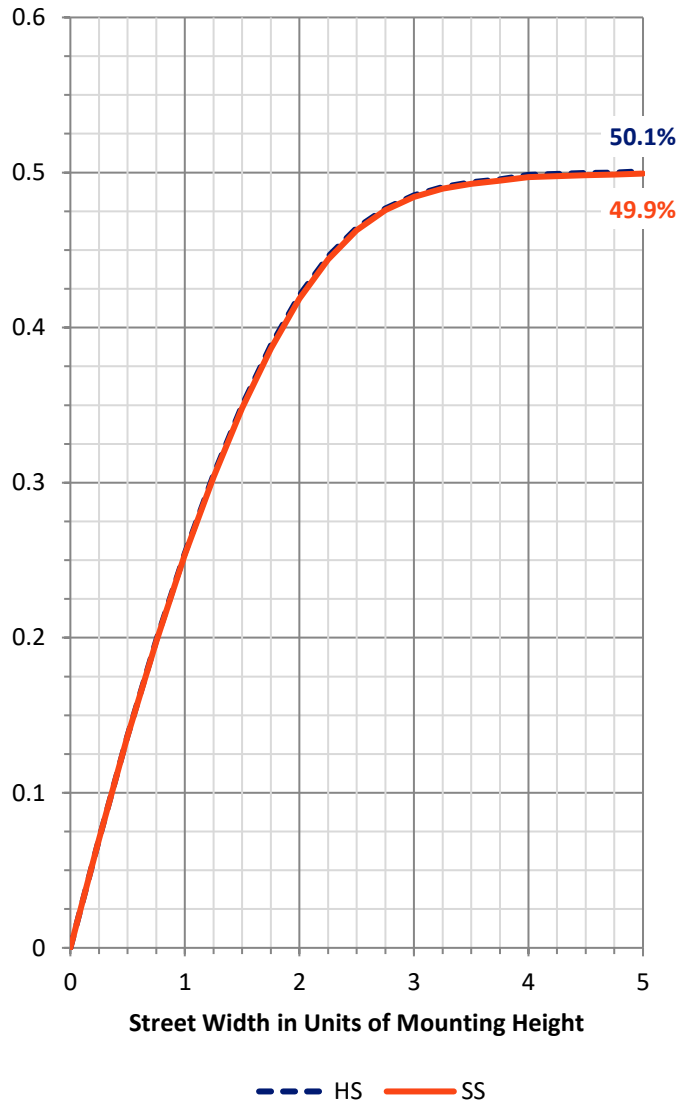
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9403.8	0.0	9403.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9403.8	0.0	9403.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	18807.7	0.0	18807.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.1
10°-20°	581.2	3.1
20°-30°	994.0	5.3
30°-40°	1577.6	8.4
40°-50°	2545.1	13.5
50°-60°	4141.0	22.0
60°-70°	6003.0	31.9
70°-80°	2662.7	14.2
80°-90°	105.0	0.6
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°	18807.7	100.0
0°-180°	18807.7	100.0

Coefficient of Utilization

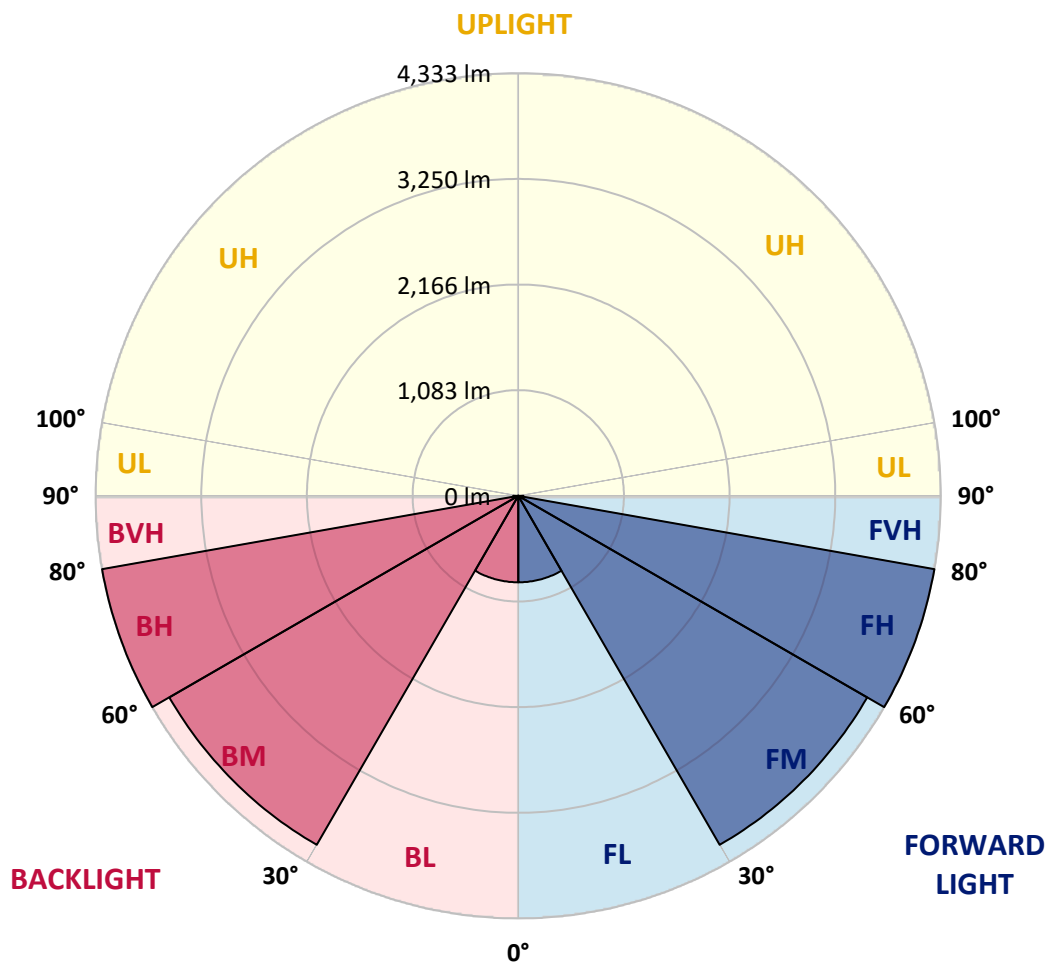


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.6	4.7			
FM (30°-60°)	4131.9	22.0			
FH (60°-80°)	4332.8	23.0			G2/5000
FVH (80°-90°)	52.5	0.3			G1/100
BL (0°-30°)	886.6	4.7	B2/1000		
BM (30°-60°)	4131.9	22.0	B3/5000		
BH (60°-80°)	4332.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	52.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2088.5	2090.5	2087.5	2085.5	2084.5	2084.5	2083.6	2084.5	2090.5	2091.5	2088.5
5°	2082.5	2084.5	2083.6	2081.5	2080.6	2080.6	2079.6	2078.6	2083.6	2085.5	2084.5
7.5°	2074.6	2075.7	2074.6	2073.6	2074.6	2073.6	2070.6	2068.7	2072.7	2072.7	2071.7
10°	2060.8	2062.7	2061.7	2062.7	2064.7	2064.7	2060.8	2056.8	2057.8	2055.8	2055.8
12.5°	2043.9	2046.8	2047.9	2051.9	2056.8	2062.7	2053.8	2044.9	2042.9	2041.9	2040.9
15°	2033.0	2036.0	2039.9	2043.9	2052.8	2065.7	2052.8	2038.9	2034.9	2031.0	2029.1
17.5°	2030.0	2034.0	2039.9	2045.9	2057.8	2070.6	2059.8	2045.9	2036.0	2030.0	2028.0
20°	2037.9	2040.9	2049.8	2060.8	2077.6	2090.5	2079.6	2064.7	2049.8	2040.9	2037.9
22.5°	2053.8	2058.7	2069.7	2089.5	2113.3	2132.1	2117.2	2092.5	2068.7	2056.8	2052.8
25°	2088.5	2092.5	2105.3	2132.1	2159.9	2177.7	2161.9	2133.1	2100.4	2084.5	2079.6
27.5°	2141.0	2147.0	2160.8	2192.6	2215.3	2225.3	2214.4	2194.6	2170.8	2154.0	2150.0
30°	2215.3	2222.3	2243.1	2276.8	2291.7	2297.6	2292.7	2279.8	2262.9	2245.1	2241.2
32.5°	2315.5	2319.5	2343.3	2375.0	2388.9	2390.8	2384.9	2378.9	2351.2	2321.4	2319.5
35°	2427.5	2434.4	2463.2	2500.8	2513.7	2514.8	2502.9	2493.9	2461.2	2437.4	2437.4
37.5°	2576.1	2579.1	2606.9	2649.5	2663.4	2659.5	2653.5	2645.6	2610.9	2580.1	2581.2
40°	2750.6	2756.6	2780.4	2829.9	2829.9	2825.0	2829.0	2823.0	2788.3	2758.6	2759.5
42.5°	2957.8	2960.8	2989.5	3042.0	3038.1	3028.2	3032.2	3024.2	3002.4	2968.7	2956.8
45°	3178.8	3190.7	3240.3	3290.9	3282.9	3251.2	3267.1	3265.1	3245.2	3194.7	3197.7
47.5°	3445.5	3465.3	3512.9	3573.4	3564.5	3514.9	3532.7	3544.6	3516.8	3461.3	3451.5
50°	3745.8	3758.7	3829.1	3885.6	3877.7	3825.1	3865.7	3867.7	3798.3	3720.0	3720.0
52.5°	4066.0	4078.9	4174.0	4262.3	4267.2	4190.9	4223.6	4221.6	4108.6	4005.5	3985.7
55°	4424.8	4430.8	4553.7	4683.5	4711.3	4636.9	4640.9	4601.2	4454.6	4334.6	4323.7
57.5°	4795.6	4817.3	4953.1	5121.6	5203.9	5158.3	5137.5	5031.4	4889.7	4751.9	4745.0
60°	5205.9	5206.9	5383.3	5582.6	5749.1	5779.8	5694.5	5552.8	5369.4	5187.1	5179.2
62.5°	5490.4	5533.0	5756.0	6093.1	6391.4	6563.9	6338.9	6041.5	5680.7	5386.3	5356.6
65°	5548.9	5577.6	5917.6	6488.6	7098.1	7469.8	6949.4	6317.1	5701.5	5309.0	5289.2
67.5°	5076.0	5106.8	5564.7	6441.0	7593.8	8356.0	7345.9	6184.2	5348.6	4862.9	4824.3
70°	3926.2	3960.9	4526.9	5669.8	7483.7	8634.5	7063.4	5394.2	4411.0	3886.6	3816.2
72.5°	2087.5	2215.3	2699.1	3891.5	6074.2	7434.2	5791.7	3936.1	2844.8	2325.4	2232.3
75°	762.3	778.1	1047.7	1725.7	3533.7	5097.9	3669.5	1877.4	1079.4	833.6	791.0
77.5°	315.2	314.2	344.9	521.4	1283.7	2610.9	1432.3	551.2	344.0	318.2	314.2
80°	186.4	186.4	205.1	217.0	338.0	788.0	377.6	245.8	206.2	188.3	191.3
82.5°	83.2	88.2	129.8	136.8	163.6	216.1	182.4	156.6	134.8	93.2	84.3
85°	45.6	39.6	68.4	71.3	78.3	80.3	86.2	85.3	78.3	45.6	46.6
87.5°	8.9	10.9	19.8	14.9	16.8	14.9	19.8	27.7	28.7	15.9	12.9
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)