

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: P529131

Luminaire Tested: **GALN-SA4B-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529131
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-SA4B-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 12585 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

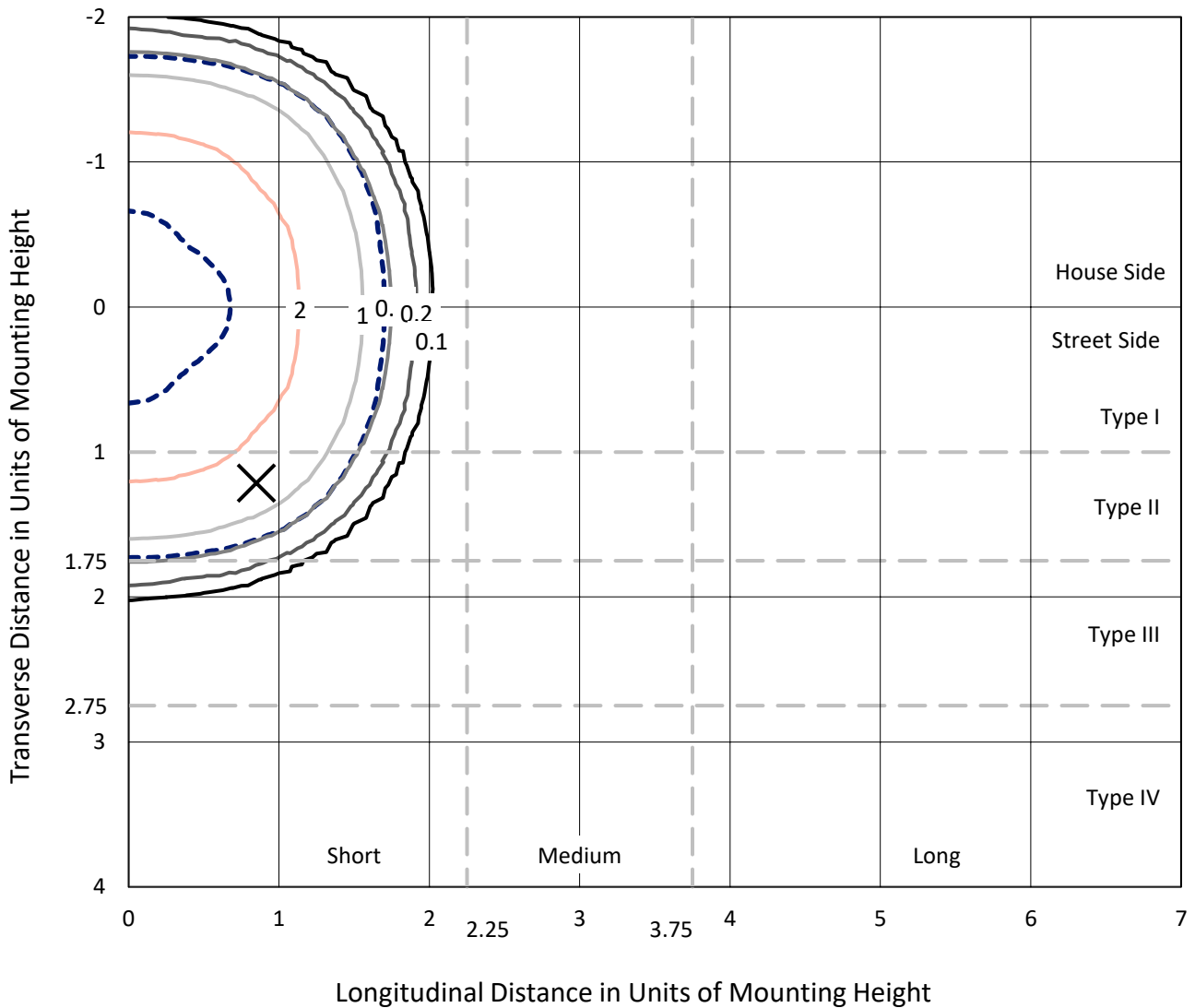
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

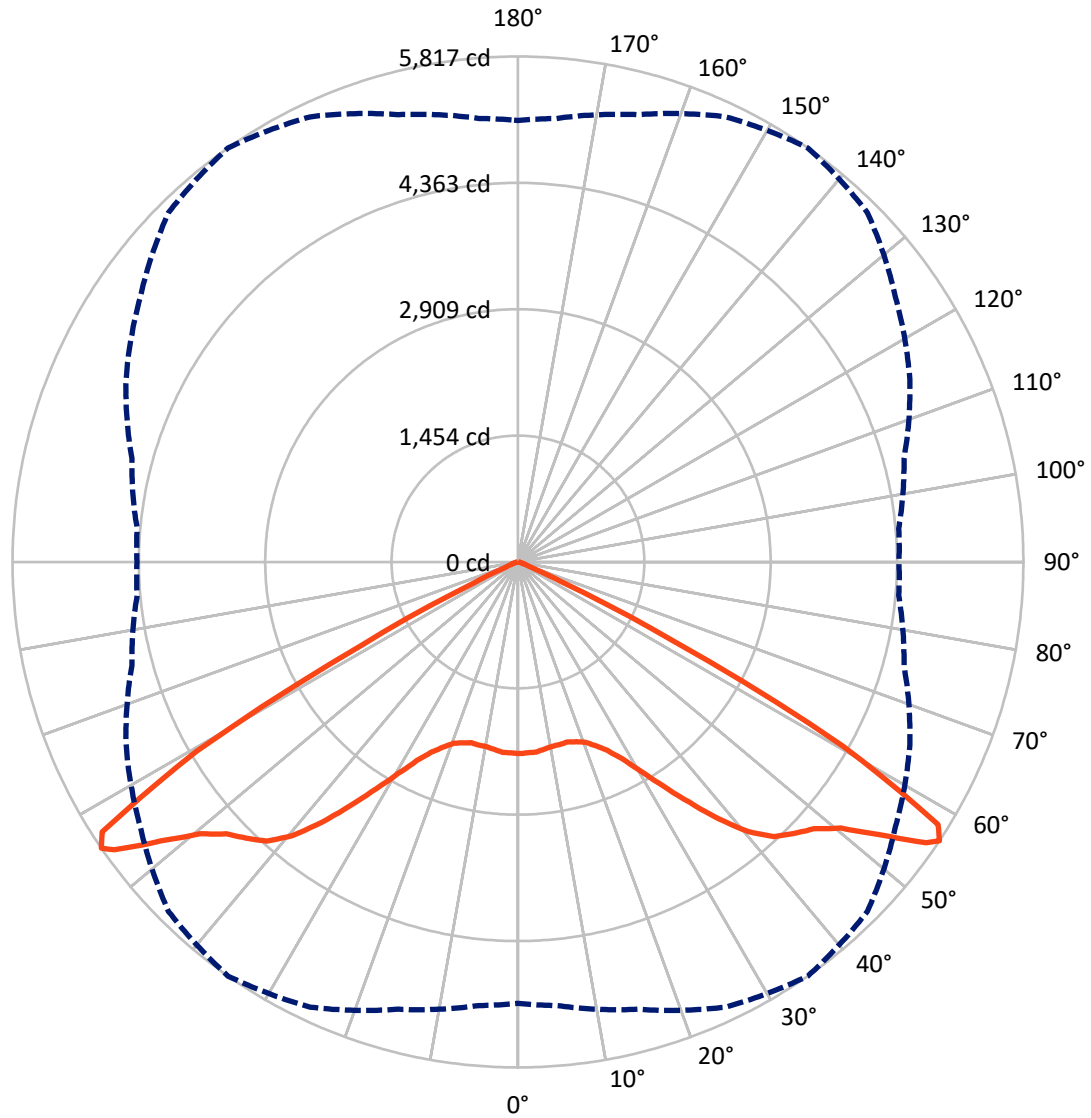
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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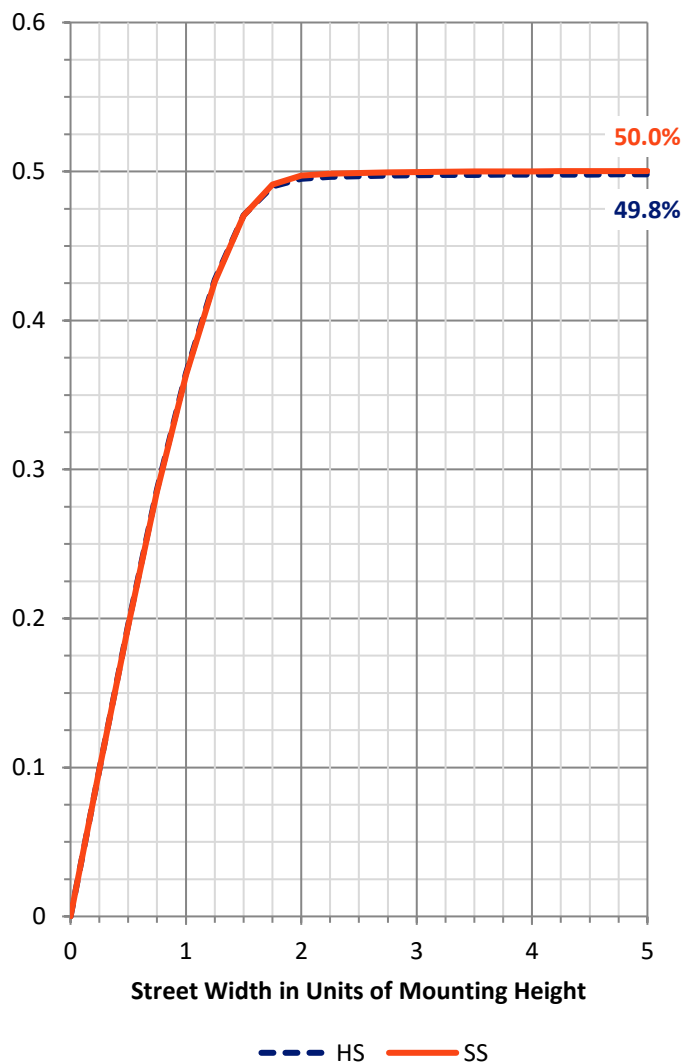
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6292.5	0.0	6292.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6292.5	0.0	6292.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12585.0	0.0	12585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.6
10°-20°	605.1	4.8
20°-30°	1095.7	8.7
30°-40°	2031.8	16.1
40°-50°	3335.1	26.5
50°-60°	4296.6	34.1
60°-70°	946.9	7.5
70°-80°	54.9	0.4
80°-90°	11.6	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°	12585.0	100.0
0°-180°	12585.0	100.0

Coefficient of Utilization

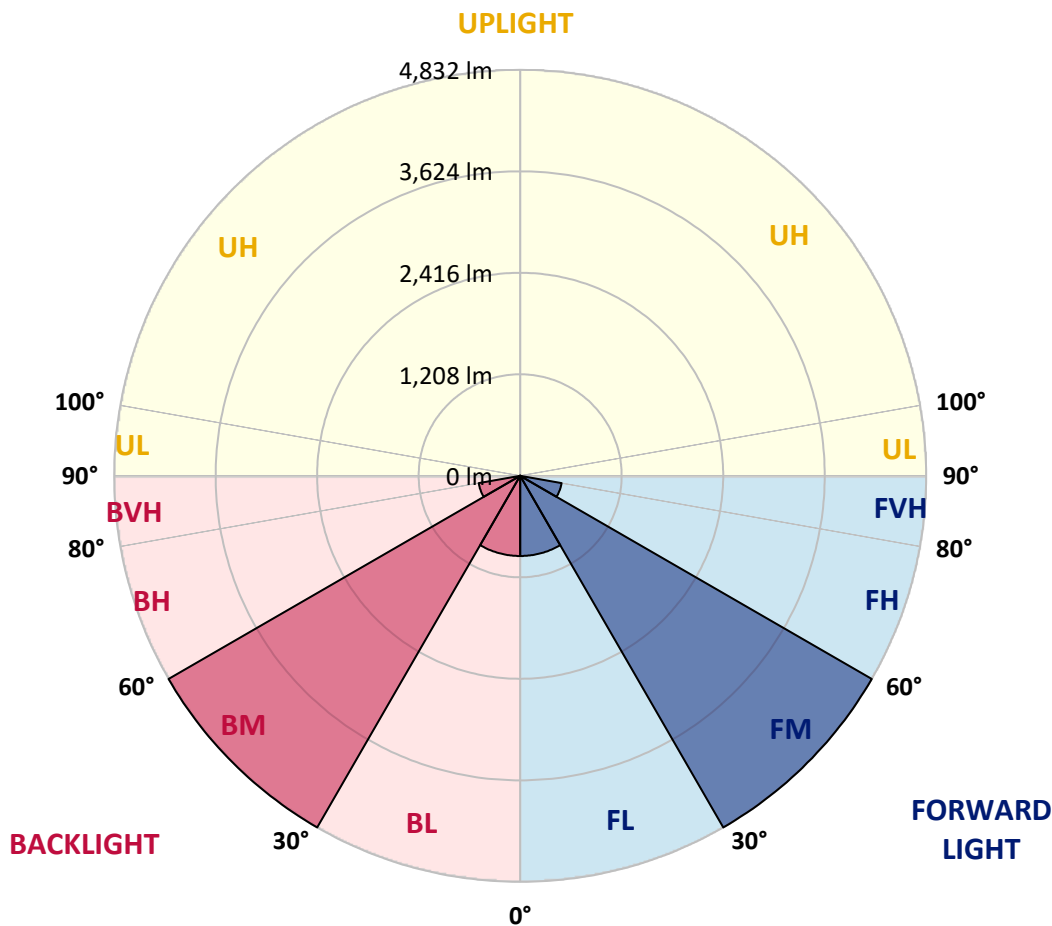


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.0	7.6			
FM (30°-60°)	4831.8	38.4			
FH (60°-80°)	500.9	4.0			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	954.0	7.6	B2/1000		
BM (30°-60°)	4831.8	38.4	B3/5000		
BH (60°-80°)	500.9	4.0	B2/1000		G0/660
BVH (80°-90°)	5.8	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°	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2	2205.2
2.5°	2209.7	2209.7	2212.0	2214.3	2198.3	2191.5	2193.8	2189.2	2186.9	2193.8	2193.8
5°	2202.9	2202.9	2196.0	2198.3	2198.3	2177.8	2177.8	2182.4	2182.4	2168.7	2164.1
7.5°	2184.6	2180.1	2171.0	2182.4	2175.5	2175.5	2159.6	2148.2	2143.6	2152.7	2143.6
10°	2145.9	2148.2	2157.3	2161.8	2157.3	2171.0	2143.6	2127.6	2111.7	2104.8	2104.8
12.5°	2127.6	2141.3	2127.6	2139.0	2155.0	2143.6	2127.6	2116.2	2093.4	2084.3	2084.3
15°	2125.3	2134.5	2139.0	2155.0	2148.2	2152.7	2120.8	2107.1	2072.9	2056.9	2050.1
17.5°	2123.1	2134.5	2141.3	2171.0	2175.5	2177.8	2152.7	2111.7	2082.0	2066.1	2050.1
20°	2148.2	2152.7	2166.4	2196.0	2214.3	2246.2	2200.6	2157.3	2093.4	2075.2	2068.3
22.5°	2180.1	2202.9	2216.6	2248.5	2296.4	2323.7	2264.5	2209.7	2143.6	2120.8	2093.4
25°	2282.7	2278.1	2300.9	2367.1	2405.8	2426.4	2378.5	2298.7	2212.0	2184.6	2189.2
27.5°	2410.4	2415.0	2435.5	2508.5	2565.5	2597.4	2540.4	2435.5	2351.1	2305.5	2300.9
30°	2576.9	2572.3	2595.1	2693.2	2795.8	2843.7	2743.3	2620.2	2538.1	2478.8	2492.5
32.5°	2752.5	2754.7	2818.6	2907.5	3074.0	3167.5	3005.6	2855.1	2731.9	2690.9	2670.4
35°	3012.4	3023.8	3074.0	3210.8	3395.5	3516.4	3338.5	3158.4	3017.0	2941.7	2950.9
37.5°	3334.0	3322.6	3406.9	3555.2	3749.0	3837.9	3687.4	3482.2	3338.5	3288.4	3320.3
40°	3676.0	3687.4	3730.8	3865.3	4081.9	4141.2	3917.8	3806.0	3680.6	3655.5	3694.3
42.5°	4018.1	4011.3	4043.2	4164.0	4321.4	4280.3	4148.1	4081.9	3993.0	3942.8	3995.3
45°	4268.9	4257.5	4316.8	4398.9	4455.9	4378.4	4319.1	4296.3	4250.7	4196.0	4243.9
47.5°	4512.9	4503.8	4560.8	4583.6	4588.2	4485.6	4497.0	4538.0	4424.0	4310.0	4364.7
50°	4720.5	4704.5	4775.2	4825.4	4814.0	4649.8	4690.8	4649.8	4471.9	4337.4	4316.8
52.5°	5067.1	5073.9	5149.2	5240.4	5213.0	5076.2	5016.9	4829.9	4601.9	4481.0	4410.3
55°	5286.0	5251.8	5381.8	5671.4	5703.3	5561.9	5299.7	5023.8	4681.7	4533.5	4515.2
56°	5080.8	5124.1	5329.3	5653.2	5817.3	5687.4	5306.5	4975.9	4599.6	4398.9	4385.2
57.5°	4558.6	4535.7	4814.0	5256.4	5703.3	5648.6	5119.5	4633.8	4196.0	3970.2	3942.8
60°	2836.8	2903.0	3147.0	3694.3	4291.7	4319.1	3794.6	3377.3	2866.5	2665.8	2713.7
62.5°	1110.6	1053.6	1206.3	1614.5	2025.0	2116.2	1917.8	1594.0	1309.0	1110.6	1096.9
65°	257.7	250.8	282.8	390.0	545.0	631.7	599.7	431.0	317.0	301.0	278.2
67.5°	145.9	145.9	139.1	139.1	152.8	161.9	155.1	152.8	159.6	166.5	164.2
70°	102.6	100.3	95.8	98.1	93.5	93.5	100.3	111.7	120.9	120.9	123.1
72.5°	61.6	61.6	61.6	68.4	68.4	68.4	75.3	84.4	86.7	84.4	82.1
75°	27.4	27.4	31.9	38.8	43.3	45.6	52.4	57.0	61.6	57.0	52.4
77.5°	6.8	6.8	11.4	16.0	20.5	25.1	34.2	41.0	43.3	41.0	34.2
80°	2.3	2.3	4.6	11.4	20.5	25.1	34.2	36.5	38.8	34.2	27.4
82.5°	2.3	2.3	4.6	11.4	16.0	20.5	27.4	31.9	34.2	29.6	27.4
85°	0.0	2.3	4.6	9.1	13.7	18.2	18.2	13.7	11.4	6.8	9.1
87.5°	0.0	0.0	2.3	2.3	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)