

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: P529833

Luminaire Tested: **GALN-SA5A-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529833
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-SA5A-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 12803 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

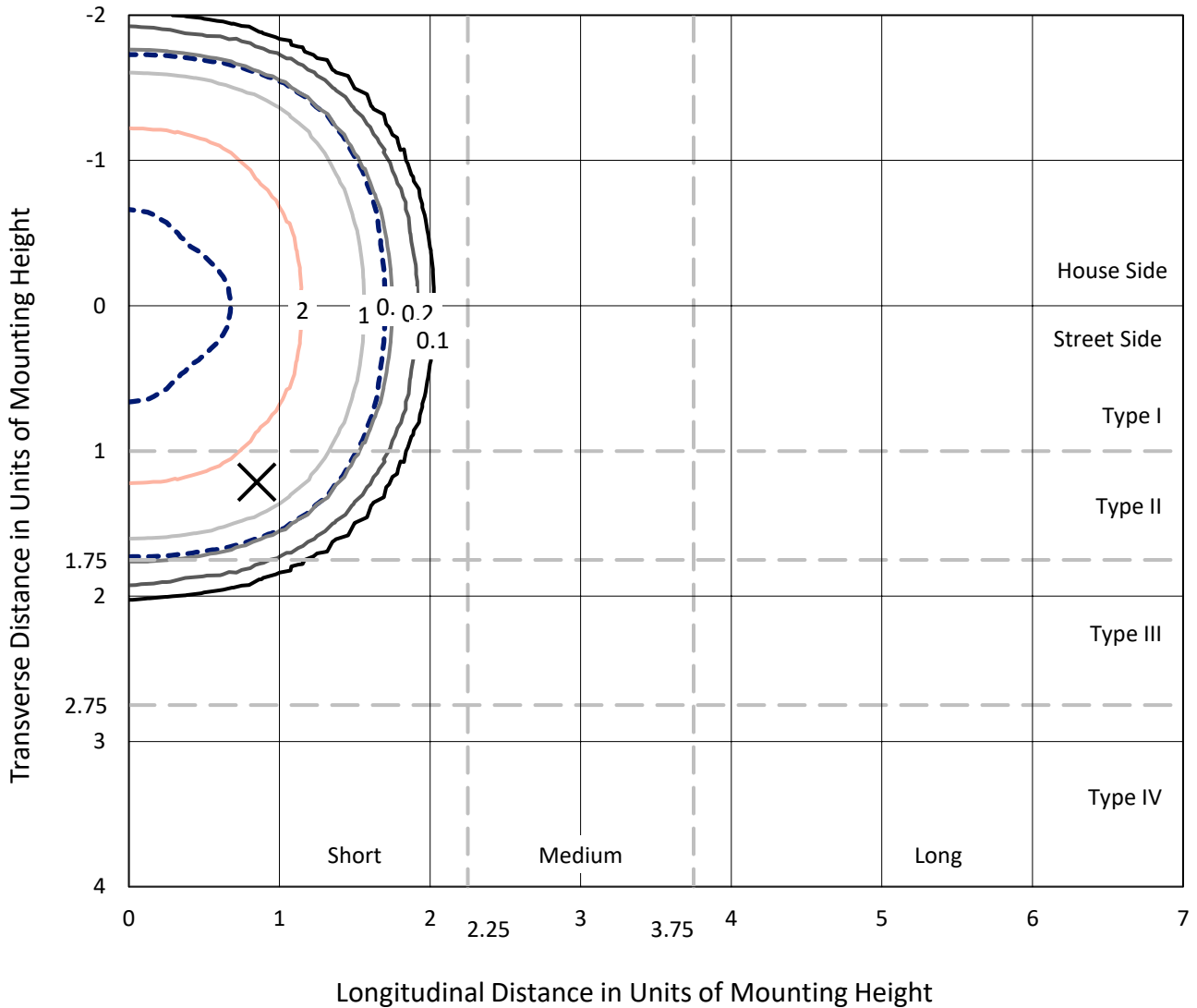
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

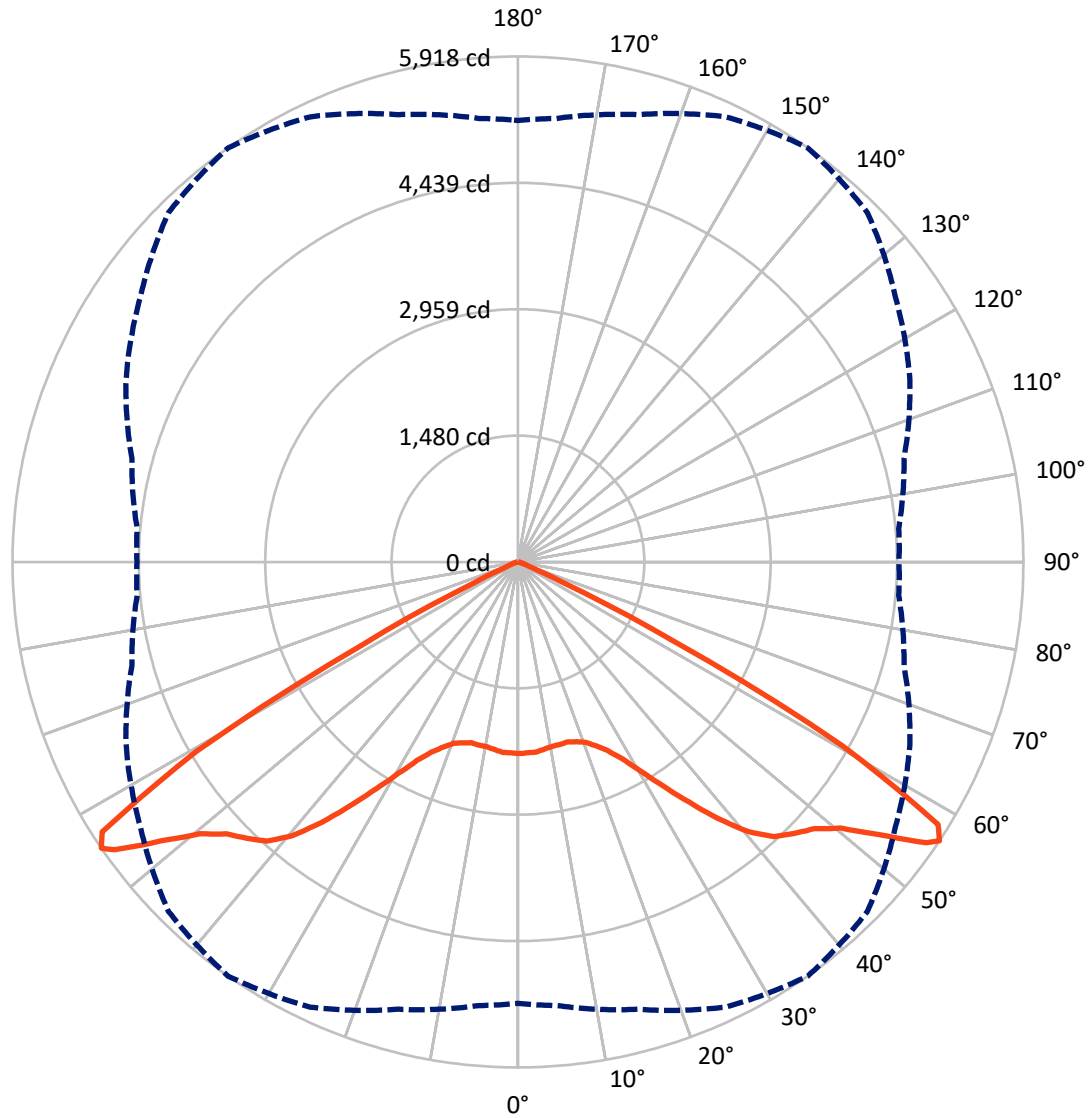
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	6401.5	0.0	6401.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6401.5	0.0	6401.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12803.0	0.0	12803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.6
10°-20°	615.6	4.8
20°-30°	1114.7	8.7
30°-40°	2067.0	16.1
40°-50°	3392.9	26.5
50°-60°	4371.0	34.1
60°-70°	963.3	7.5
70°-80°	55.9	0.4
80°-90°	11.8	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°	12803.0	100.0
0°-180°	12803.0	100.0

Coefficient of Utilization



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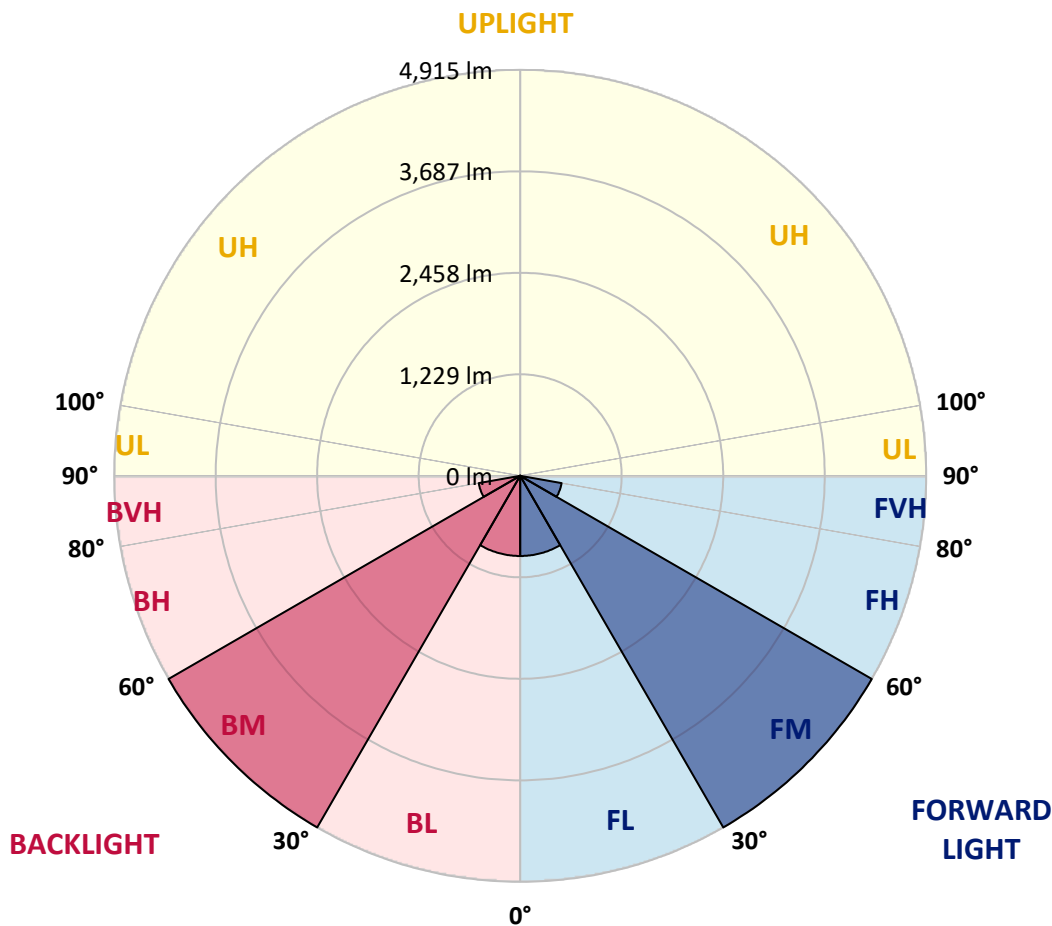
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.5	7.6			
FM (30°-60°)	4915.5	38.4			
FH (60°-80°)	509.6	4.0			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	970.5	7.6	B2/1000		
BM (30°-60°)	4915.5	38.4	B3/5000		
BH (60°-80°)	509.6	4.0	B2/1000		G0/660
BVH (80°-90°)	5.9	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°	2243.4	2243.4	2243.4	2243.4	2243.4	2243.4	2243.4	2243.4	2243.4	2243.4	2243.4
2.5°	2248.0	2248.0	2250.3	2252.6	2236.4	2229.4	2231.8	2227.1	2224.8	2231.8	2231.8
5°	2241.0	2241.0	2234.1	2236.4	2236.4	2215.5	2215.5	2220.2	2220.2	2206.2	2201.6
7.5°	2222.5	2217.8	2208.6	2220.2	2213.2	2213.2	2197.0	2185.4	2180.7	2190.0	2180.7
10°	2183.0	2185.4	2194.6	2199.3	2194.6	2208.6	2180.7	2164.5	2148.2	2141.3	2141.3
12.5°	2164.5	2178.4	2164.5	2176.1	2192.3	2180.7	2164.5	2152.9	2129.7	2120.4	2120.4
15°	2162.2	2171.4	2176.1	2192.3	2185.4	2190.0	2157.5	2143.6	2108.8	2092.6	2085.6
17.5°	2159.8	2171.4	2178.4	2208.6	2213.2	2215.5	2190.0	2148.2	2118.1	2101.8	2085.6
20°	2185.4	2190.0	2203.9	2234.1	2252.6	2285.1	2238.7	2194.6	2129.7	2111.1	2104.2
22.5°	2217.8	2241.0	2255.0	2287.4	2336.2	2364.0	2303.7	2248.0	2180.7	2157.5	2129.7
25°	2322.2	2317.6	2340.8	2408.1	2447.5	2468.4	2419.7	2338.5	2250.3	2222.5	2227.1
27.5°	2452.2	2456.8	2477.7	2551.9	2609.9	2642.4	2584.4	2477.7	2391.8	2345.4	2340.8
30°	2621.5	2616.9	2640.1	2739.8	2844.2	2892.9	2790.9	2665.6	2582.1	2521.8	2535.7
32.5°	2800.1	2802.5	2867.4	2957.9	3127.2	3222.4	3057.7	2904.5	2779.3	2737.5	2716.6
35°	3064.6	3076.2	3127.2	3266.4	3454.4	3577.3	3396.4	3213.1	3069.3	2992.7	3002.0
37.5°	3391.7	3380.1	3466.0	3616.8	3813.9	3904.4	3751.3	3542.5	3396.4	3345.3	3377.8
40°	3739.7	3751.3	3795.4	3932.3	4152.7	4213.0	3985.6	3871.9	3744.3	3718.8	3758.3
42.5°	4087.7	4080.7	4113.2	4236.2	4396.2	4354.5	4219.9	4152.7	4062.2	4011.1	4064.5
45°	4342.9	4331.3	4391.6	4475.1	4533.1	4454.2	4393.9	4370.7	4324.3	4268.6	4317.4
47.5°	4591.1	4581.8	4639.8	4663.0	4667.7	4563.3	4574.9	4616.6	4500.6	4384.6	4440.3
50°	4802.2	4786.0	4857.9	4908.9	4897.3	4730.3	4772.1	4730.3	4549.4	4412.5	4391.6
52.5°	5154.9	5161.8	5238.4	5331.2	5303.3	5164.1	5103.8	4913.6	4681.6	4558.6	4486.7
55°	5377.6	5342.8	5475.0	5769.6	5802.1	5658.3	5391.5	5110.8	4762.8	4612.0	4593.4
56°	5168.8	5212.9	5421.6	5751.1	5918.1	5785.9	5398.4	5062.1	4679.3	4475.1	4461.2
57.5°	4637.5	4614.3	4897.3	5347.4	5802.1	5746.4	5208.2	4714.1	4268.6	4039.0	4011.1
60°	2886.0	2953.3	3201.5	3758.3	4366.1	4393.9	3860.3	3435.8	2916.1	2712.0	2760.7
62.5°	1129.8	1071.8	1227.2	1642.5	2060.1	2152.9	1951.1	1621.6	1331.6	1129.8	1115.9
65°	262.2	255.2	287.7	396.7	554.5	642.6	610.1	438.5	322.5	306.2	283.0
67.5°	148.5	148.5	141.5	141.5	155.4	164.7	157.8	155.4	162.4	169.4	167.0
70°	104.4	102.1	97.4	99.8	95.1	95.1	102.1	113.7	123.0	123.0	125.3
72.5°	62.6	62.6	62.6	69.6	69.6	69.6	76.6	85.8	88.2	85.8	83.5
75°	27.8	27.8	32.5	39.4	44.1	46.4	53.4	58.0	62.6	58.0	53.4
77.5°	7.0	7.0	11.6	16.2	20.9	25.5	34.8	41.8	44.1	41.8	34.8
80°	2.3	2.3	4.6	11.6	20.9	25.5	34.8	37.1	39.4	34.8	27.8
82.5°	2.3	2.3	4.6	11.6	16.2	20.9	27.8	32.5	34.8	30.2	27.8
85°	0.0	2.3	4.6	9.3	13.9	18.6	18.6	13.9	11.6	7.0	9.3
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)