

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: P530197

Luminaire Tested: **GALN-SA5B-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530197
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-SA5B-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 13590 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 204
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



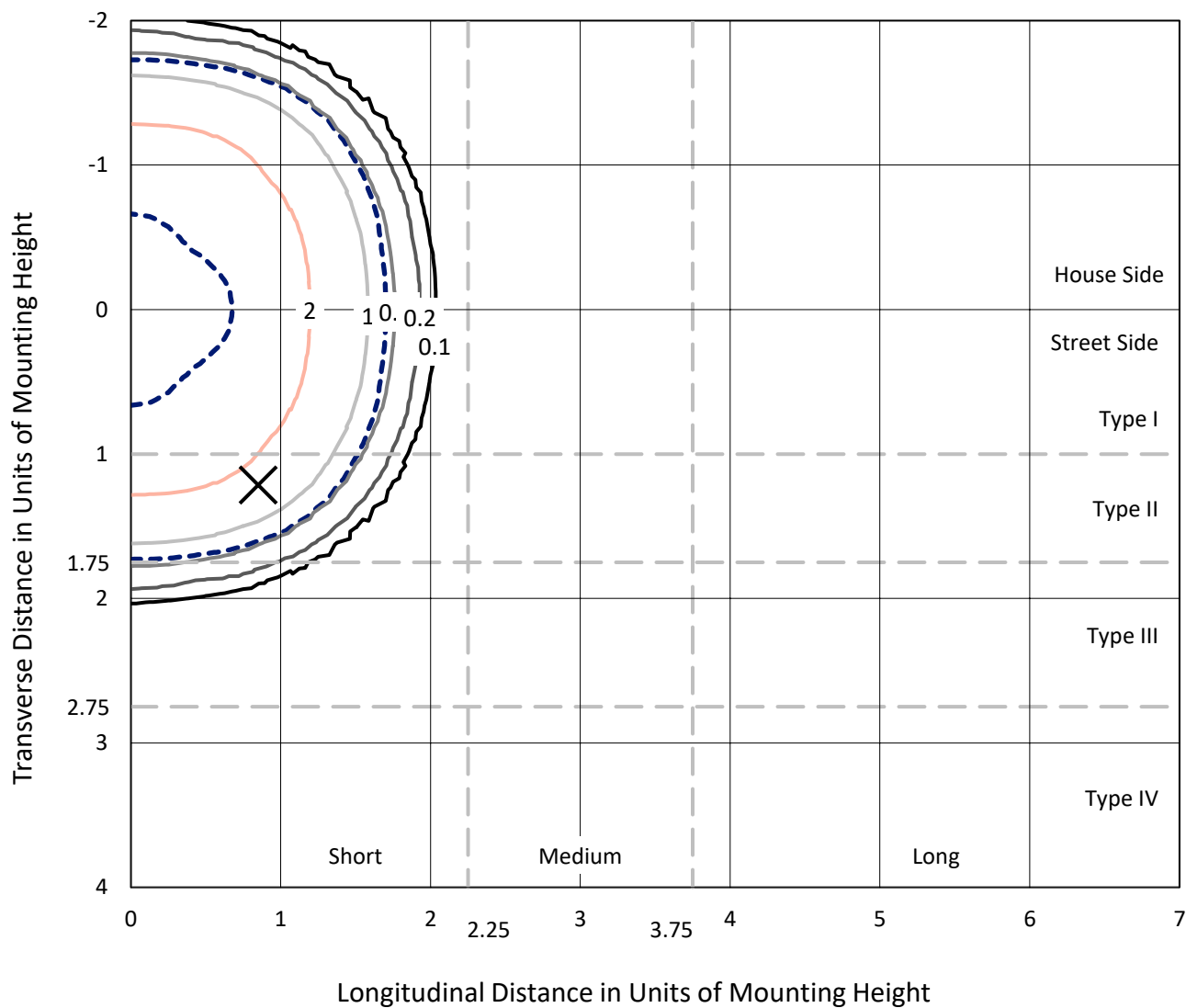
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

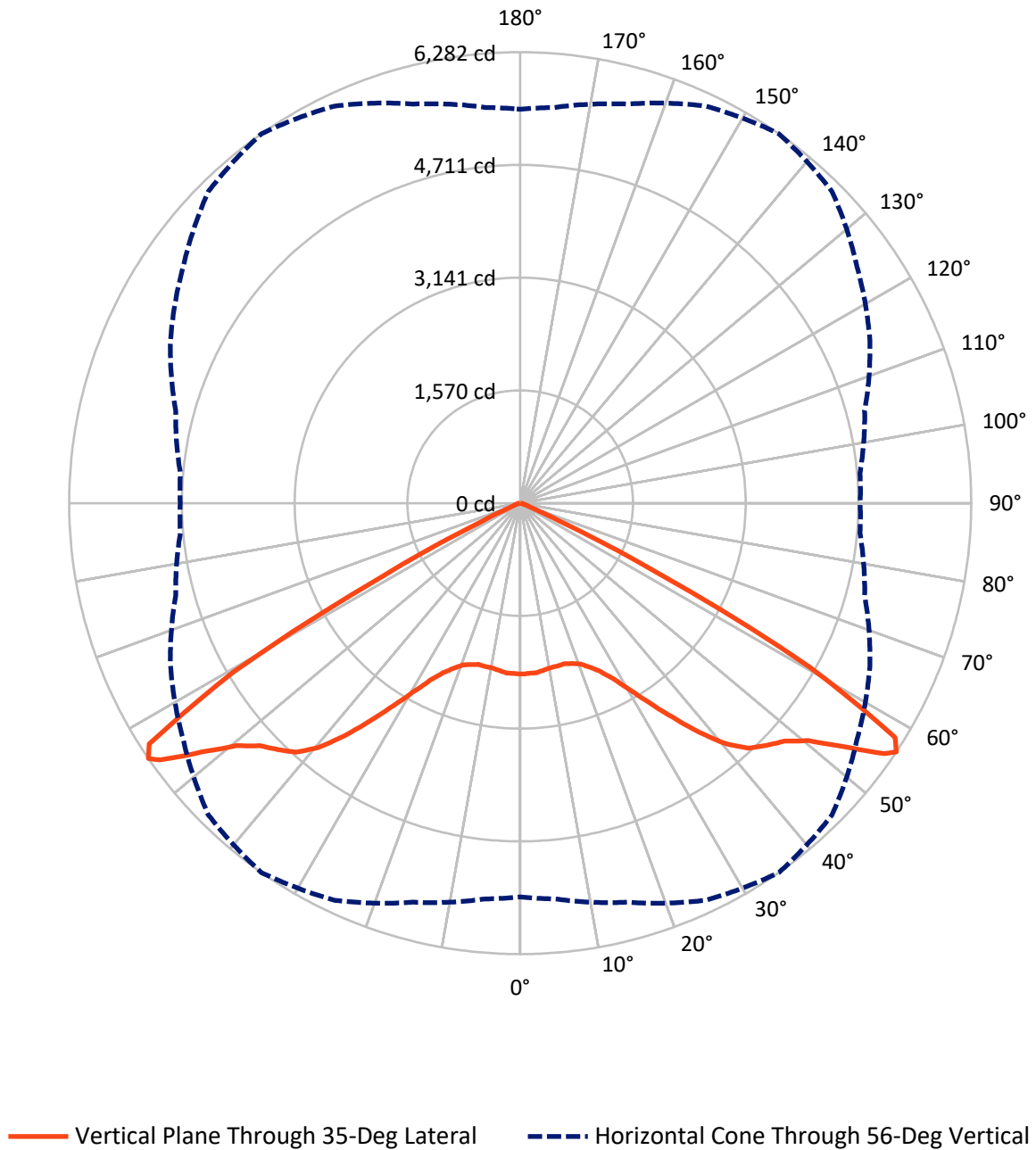
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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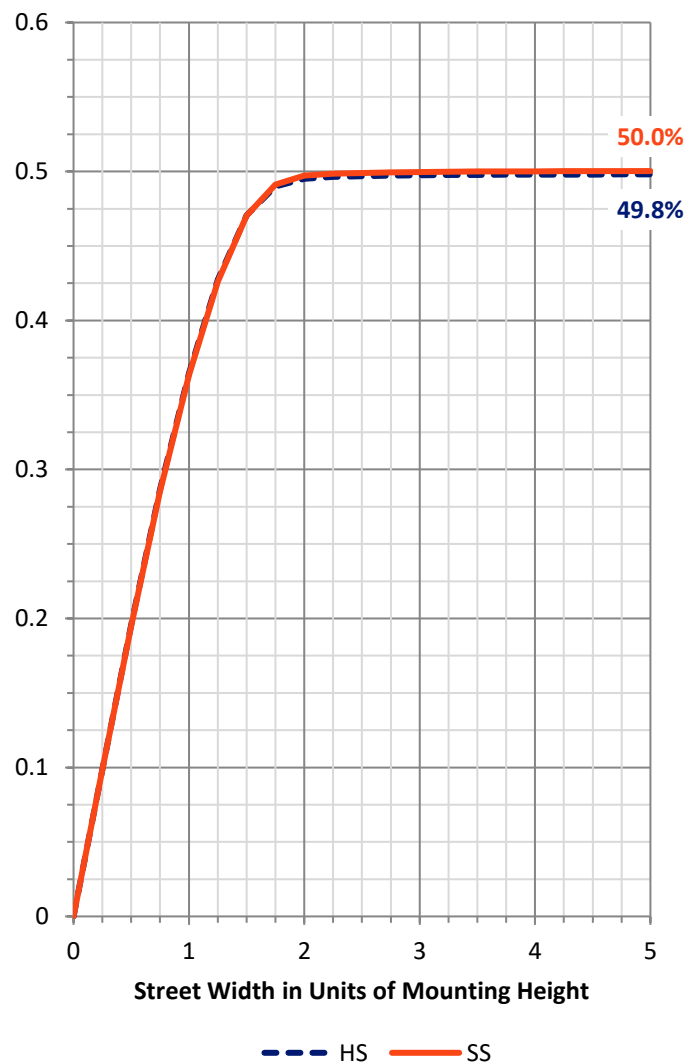
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6795.0	0.0	6795.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6795.0	0.0	6795.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13590.0	0.0	13590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.6
10°-20°	653.4	4.8
20°-30°	1183.2	8.7
30°-40°	2194.1	16.1
40°-50°	3601.4	26.5
50°-60°	4639.7	34.1
60°-70°	1022.5	7.5
70°-80°	59.3	0.4
80°-90°	12.5	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°	13590.0	100.0
0°-180°	13590.0	100.0

Coefficient of Utilization



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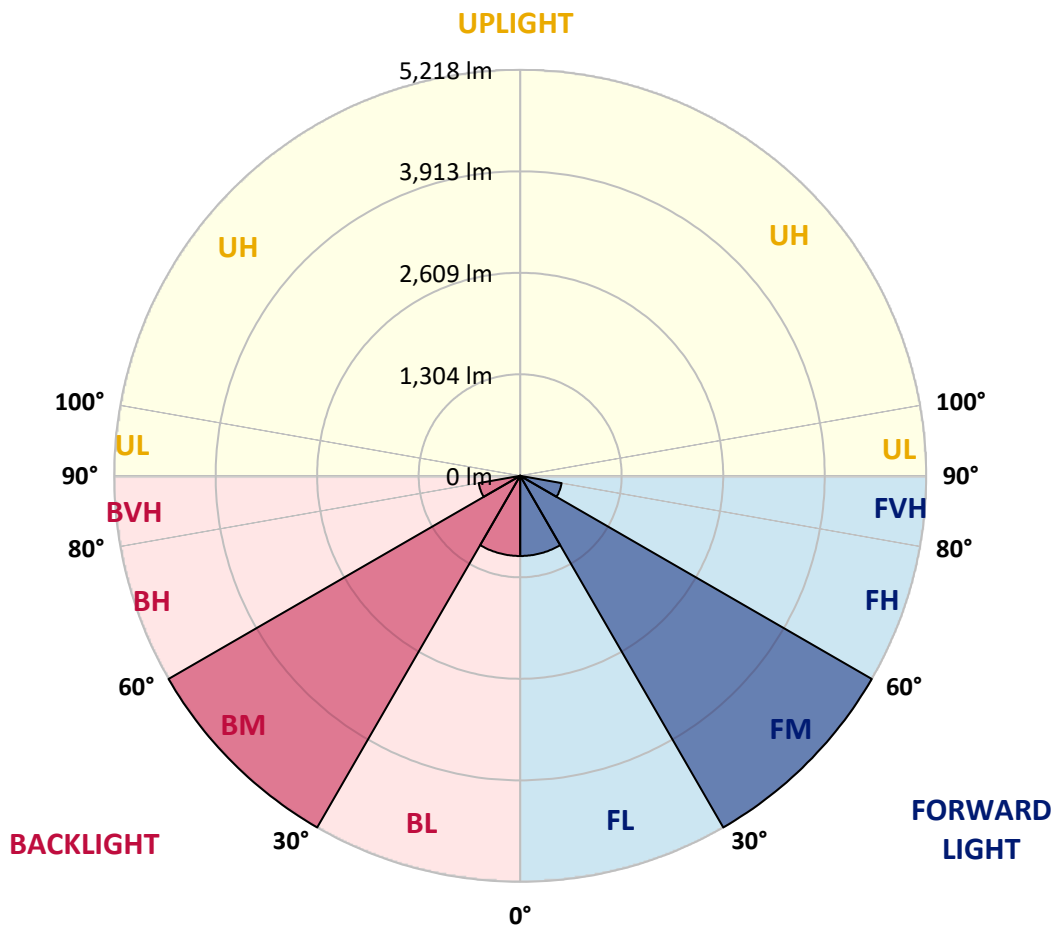
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.2	7.6			
FM	(30°-60°)	5217.6	38.4			
FH	(60°-80°)	540.9	4.0			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	1030.2	7.6	B3/2500		
BM	(30°-60°)	5217.6	38.4	B4/8500		
BH	(60°-80°)	540.9	4.0	B2/1000		G0/660
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2381.3	2381.3	2381.3	2381.3	2381.3	2381.3	2381.3	2381.3	2381.3	2381.3	2381.3
2.5°	2386.2	2386.2	2388.6	2391.1	2373.9	2366.5	2368.9	2364.0	2361.6	2368.9	2368.9
5°	2378.8	2378.8	2371.4	2373.9	2373.9	2351.7	2351.7	2356.6	2356.6	2341.9	2336.9
7.5°	2359.1	2354.2	2344.3	2356.6	2349.2	2349.2	2332.0	2319.7	2314.8	2324.6	2314.8
10°	2317.2	2319.7	2329.5	2334.5	2329.5	2344.3	2314.8	2297.5	2280.3	2272.9	2272.9
12.5°	2297.5	2312.3	2297.5	2309.8	2327.1	2314.8	2297.5	2285.2	2260.6	2250.7	2250.7
15°	2295.1	2304.9	2309.8	2327.1	2319.7	2324.6	2290.1	2275.4	2238.4	2221.2	2213.8
17.5°	2292.6	2304.9	2312.3	2344.3	2349.2	2351.7	2324.6	2280.3	2248.3	2231.0	2213.8
20°	2319.7	2324.6	2339.4	2371.4	2391.1	2425.6	2376.3	2329.5	2260.6	2240.9	2233.5
22.5°	2354.2	2378.8	2393.6	2428.0	2479.8	2509.3	2445.3	2386.2	2314.8	2290.1	2260.6
25°	2465.0	2460.1	2484.7	2556.1	2598.0	2620.1	2568.4	2482.2	2388.6	2359.1	2364.0
27.5°	2602.9	2607.8	2630.0	2708.8	2770.3	2804.8	2743.3	2630.0	2538.9	2489.6	2484.7
30°	2782.7	2777.7	2802.4	2908.2	3019.1	3070.8	2962.4	2829.4	2740.8	2676.8	2691.5
32.5°	2972.3	2974.7	3043.7	3139.7	3319.5	3420.4	3245.6	3083.1	2950.1	2905.8	2883.6
35°	3253.0	3265.3	3319.5	3467.2	3666.7	3797.2	3605.1	3410.6	3257.9	3176.7	3186.5
37.5°	3600.2	3587.9	3679.0	3839.1	4048.4	4144.4	3981.9	3760.3	3605.1	3551.0	3585.4
40°	3969.6	3981.9	4028.7	4174.0	4407.9	4471.9	4230.6	4110.0	3974.5	3947.4	3989.3
42.5°	4339.0	4331.6	4366.1	4496.6	4666.5	4622.2	4479.3	4407.9	4311.9	4257.7	4314.3
45°	4609.8	4597.5	4661.6	4750.2	4811.8	4728.0	4664.0	4639.4	4590.1	4531.0	4582.8
47.5°	4873.3	4863.5	4925.0	4949.7	4954.6	4843.8	4856.1	4900.4	4777.3	4654.2	4713.3
50°	5097.4	5080.2	5156.5	5210.7	5198.4	5021.1	5065.4	5021.1	4829.0	4683.7	4661.6
52.5°	5471.7	5479.1	5560.4	5658.9	5629.3	5481.6	5417.6	5215.6	4969.4	4838.9	4762.5
55°	5708.1	5671.2	5811.6	6124.3	6158.8	6006.1	5722.9	5424.9	5055.6	4895.5	4875.8
56°	5486.5	5533.3	5754.9	6104.6	6281.9	6141.5	5730.3	5373.2	4966.9	4750.2	4735.4
57.5°	4922.6	4898.0	5198.4	5676.1	6158.8	6099.7	5528.4	5003.8	4531.0	4287.3	4257.7
60°	3063.4	3134.8	3398.3	3989.3	4634.5	4664.0	4097.6	3647.0	3095.4	2878.7	2930.4
62.5°	1199.2	1137.7	1302.7	1743.5	2186.7	2285.2	2071.0	1721.3	1413.5	1199.2	1184.5
65°	278.3	270.9	305.4	421.1	588.5	682.1	647.6	465.4	342.3	325.1	300.4
67.5°	157.6	157.6	150.2	150.2	165.0	174.8	167.5	165.0	172.4	179.8	177.3
70°	110.8	108.4	103.4	105.9	101.0	101.0	108.4	120.7	130.5	130.5	133.0
72.5°	66.5	66.5	66.5	73.9	73.9	73.9	81.3	91.1	93.6	91.1	88.7
75°	29.6	29.6	34.5	41.9	46.8	49.3	56.6	61.6	66.5	61.6	56.6
77.5°	7.4	7.4	12.3	17.2	22.2	27.1	36.9	44.3	46.8	44.3	36.9
80°	2.5	2.5	4.9	12.3	22.2	27.1	36.9	39.4	41.9	36.9	29.6
82.5°	2.5	2.5	4.9	12.3	17.2	22.2	29.6	34.5	36.9	32.0	29.6
85°	0.0	2.5	4.9	9.9	14.8	19.7	19.7	14.8	12.3	7.4	9.9
87.5°	0.0	0.0	2.5	2.5	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)