

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: P949996

Luminaire Tested: **GALN-SB4C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28244 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

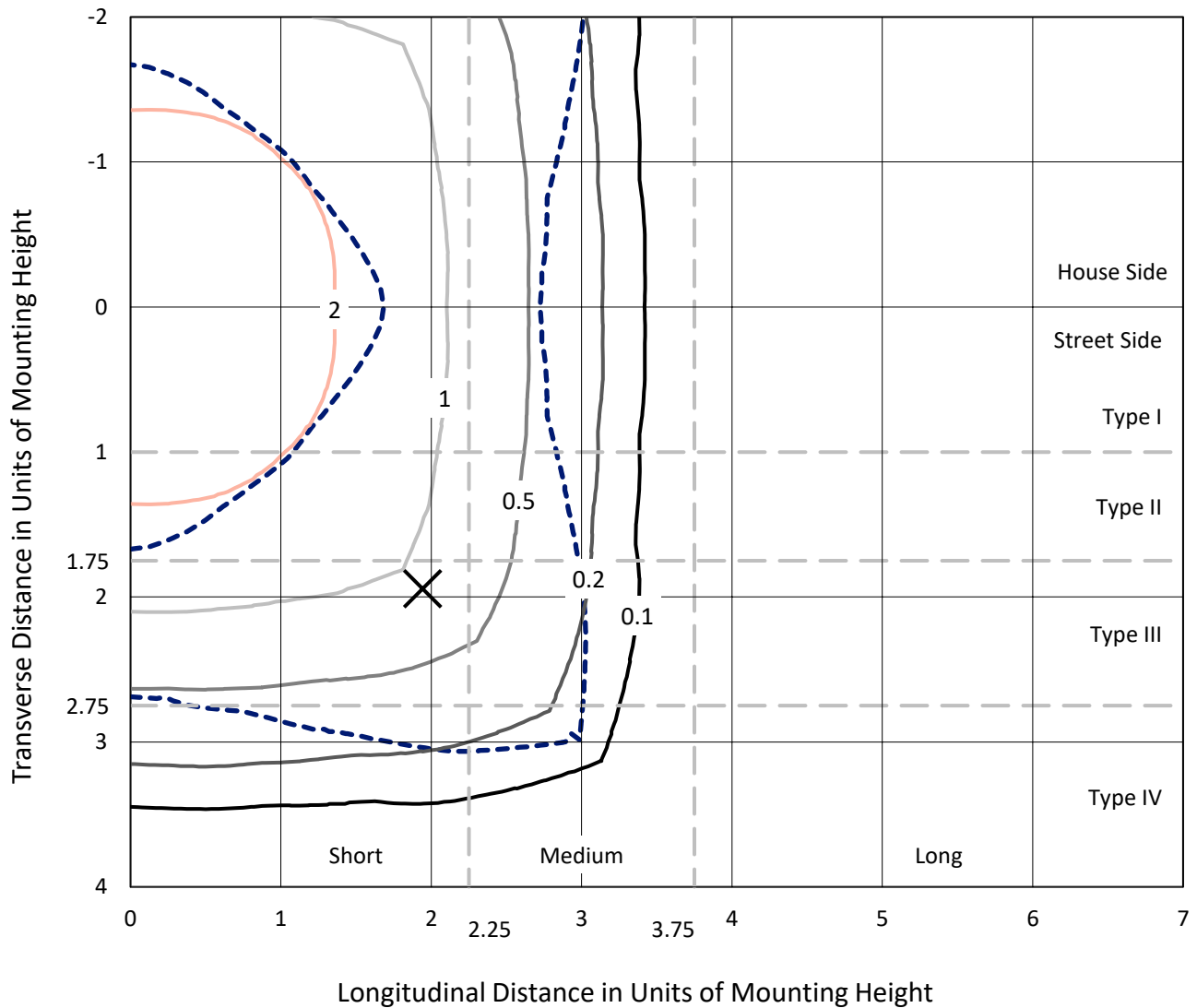
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

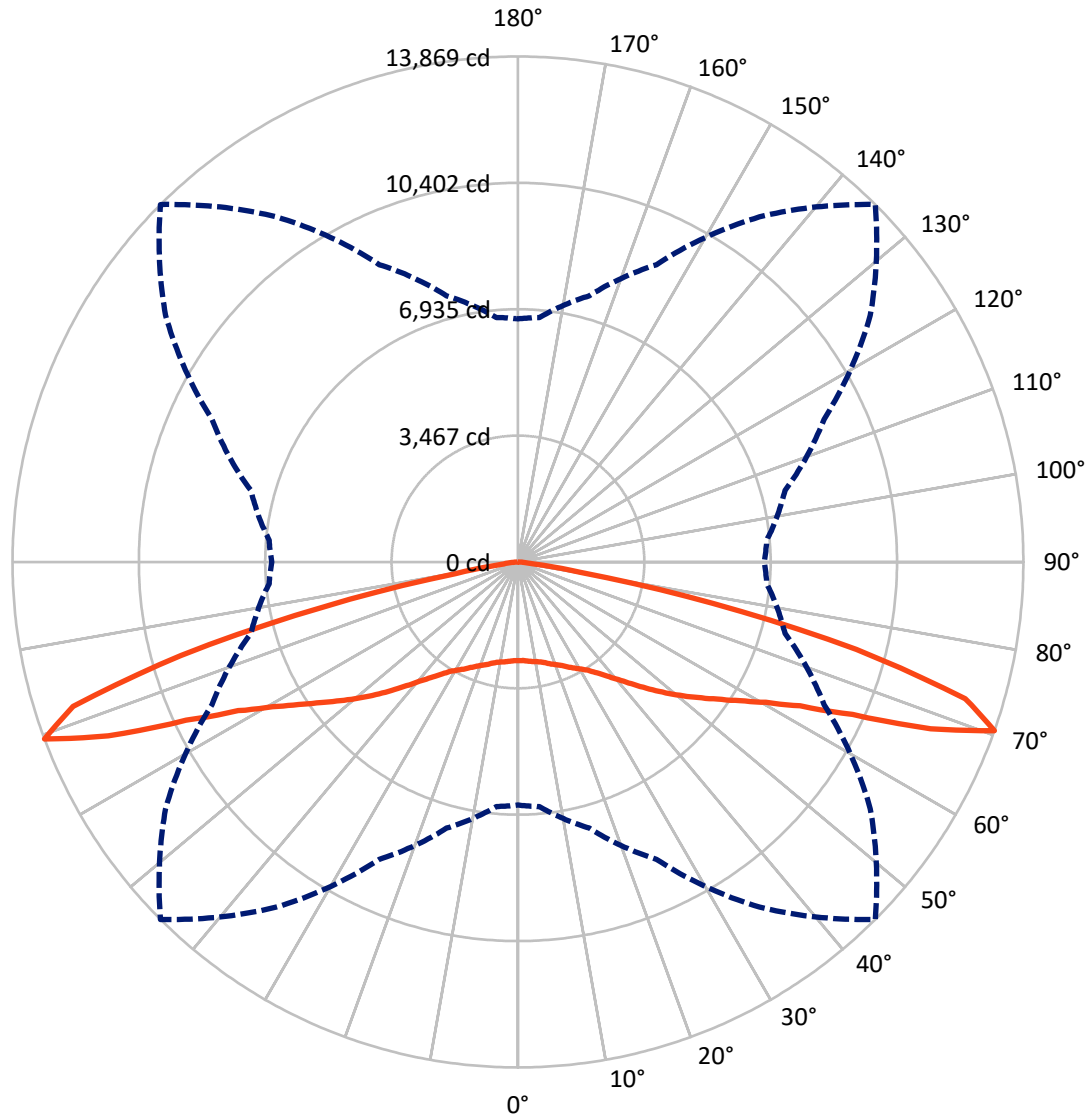
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	14122.0	0.0	14122.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14122.0	0.0	14122.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28244.0	0.0	28244.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	0.9
10°-20°	815.0	2.9
20°-30°	1456.6	5.2
30°-40°	2361.1	8.4
40°-50°	3845.8	13.6
50°-60°	5863.5	20.8
60°-70°	8723.0	30.9
70°-80°	4754.3	16.8
80°-90°	161.9	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°	28244.0	100.0
0°-180°	28244.0	100.0



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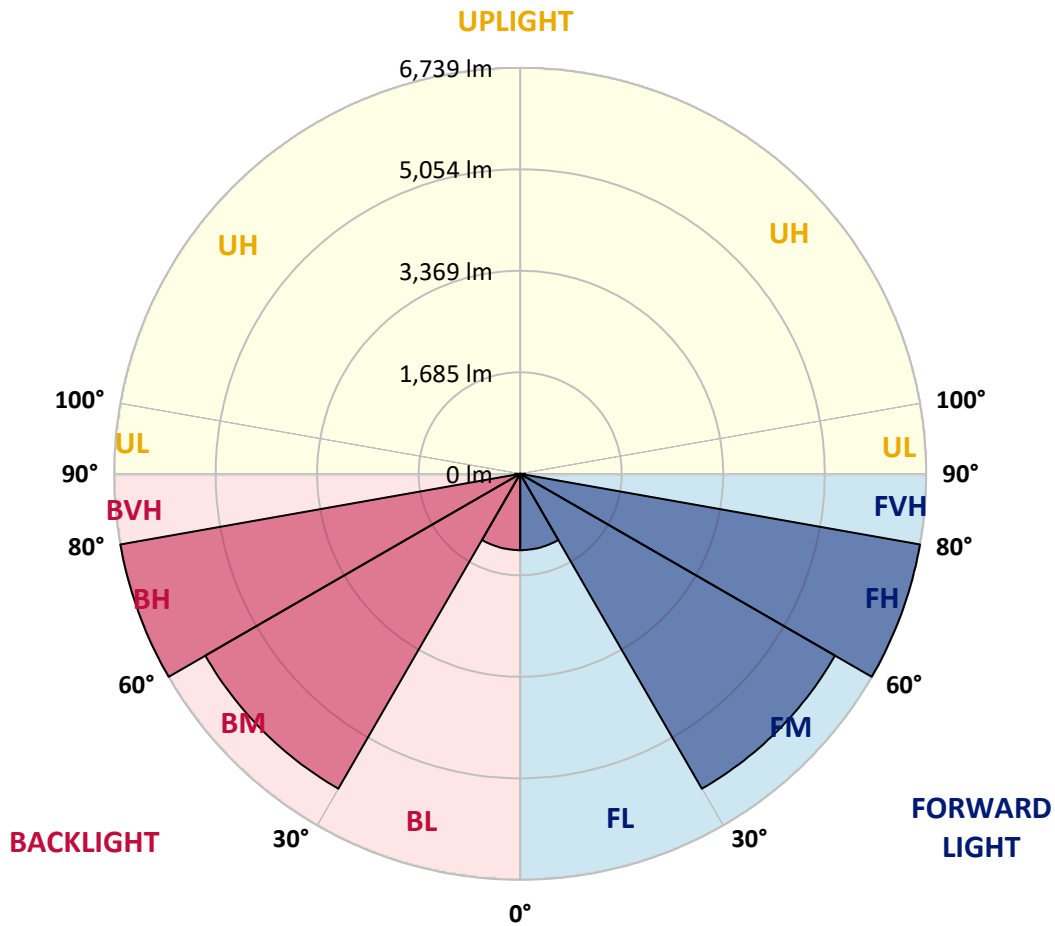
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.2	4.5			
FM (30°-60°)	6035.2	21.4			
FH (60°-80°)	6738.7	23.9			G3/7500
FVH (80°-90°)	81.0	0.3			G1/100
BL (0°-30°)	1267.2	4.5	B3/2500		
BM (30°-60°)	6035.2	21.4	B4/8500		
BH (60°-80°)	6738.7	23.9	B5		G3/7500
BVH (80°-90°)	81.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5
2.5°	2718.2	2721.1	2715.4	2712.6	2709.7	2705.5	2706.9	2714.0	2719.7	2718.2
5°	2740.9	2743.8	2739.5	2738.1	2732.4	2731.0	2731.0	2738.1	2742.4	2739.5
7.5°	2766.5	2770.7	2763.6	2762.2	2759.4	2756.5	2755.1	2762.2	2766.5	2766.5
10°	2790.6	2794.8	2789.1	2784.9	2782.1	2782.1	2779.2	2784.9	2792.0	2790.6
12.5°	2816.1	2818.9	2813.2	2810.4	2810.4	2814.7	2810.4	2813.2	2818.9	2816.1
15°	2847.3	2848.7	2847.3	2851.5	2858.6	2872.8	2860.0	2857.2	2860.0	2853.0
17.5°	2889.8	2892.7	2898.3	2908.3	2918.2	2943.7	2921.0	2913.9	2913.9	2899.7
20°	2942.3	2946.5	2955.0	2972.1	2984.8	3008.9	2986.2	2976.3	2972.1	2953.6
22.5°	2997.6	3004.7	3017.4	3040.1	3062.8	3085.5	3062.8	3045.8	3033.0	3008.9
25°	3061.4	3069.9	3089.8	3126.6	3157.8	3190.4	3163.5	3129.5	3103.9	3069.9
27.5°	3152.1	3162.1	3186.2	3231.5	3271.3	3299.6	3274.1	3230.1	3194.7	3153.6
30°	3279.8	3289.7	3318.0	3366.3	3393.2	3411.6	3394.6	3360.6	3318.0	3271.3
32.5°	3444.2	3457.0	3488.2	3533.6	3539.2	3542.1	3536.4	3519.4	3488.2	3431.5
35°	3652.7	3666.9	3702.3	3739.2	3733.5	3739.2	3730.7	3725.0	3702.3	3637.1
37.5°	3907.9	3924.9	3961.8	3990.2	3976.0	3968.9	3970.3	3971.7	3959.0	3886.7
40°	4204.3	4227.0	4253.9	4283.7	4259.6	4238.3	4252.5	4263.8	4252.5	4178.8
42.5°	4509.1	4541.8	4570.1	4612.6	4592.8	4565.9	4585.7	4598.5	4574.4	4495.0
45°	4848.0	4879.2	4916.1	4979.9	4965.7	4937.4	4965.7	4968.6	4927.4	4833.9
47.5°	5198.3	5230.9	5286.2	5371.3	5365.6	5334.4	5371.3	5351.4	5298.9	5186.9
50°	5530.1	5575.5	5660.5	5779.6	5791.0	5752.7	5802.3	5764.0	5676.1	5535.7
52.5°	5842.0	5890.2	6024.9	6186.6	6227.7	6178.1	6244.7	6178.1	6046.2	5866.1
55°	6169.6	6223.5	6383.7	6595.0	6677.2	6640.3	6702.7	6602.1	6414.9	6196.5
57.5°	6555.3	6587.9	6779.3	7030.3	7169.2	7177.8	7206.1	7036.0	6809.1	6560.9
60°	6973.6	7018.9	7227.4	7528.0	7747.8	7818.7	7788.9	7536.5	7272.8	6987.7
62.5°	7509.6	7559.2	7808.7	8168.9	8516.3	8692.1	8575.9	8210.0	7883.9	7542.2
65°	7953.4	8008.7	8459.6	9101.9	9734.4	10087.4	9795.3	9121.8	8534.7	8052.6
67.5°	7631.5	7699.6	8407.1	9586.9	11159.4	12213.0	11213.3	9731.5	8581.5	7927.9
70°	6670.1	6733.9	7559.2	9001.3	11560.7	13869.1	11801.7	9266.4	7586.1	6854.5
72.5°	4428.3	4633.9	5469.1	7199.0	10322.8	12834.0	10424.9	7053.0	5073.5	4418.4
75°	1469.0	1633.5	2203.5	3732.1	6914.0	9598.2	6582.2	3302.4	1745.5	1256.3
77.5°	370.1	426.8	588.5	1067.7	2757.9	5464.8	2482.9	872.1	475.0	331.8
80°	180.1	198.5	283.6	355.9	690.6	1737.0	648.0	334.6	224.0	173.0
82.5°	99.3	100.7	160.2	201.4	256.7	449.5	266.6	195.7	129.0	104.9
85°	61.0	59.6	85.1	107.8	107.8	160.2	127.6	107.8	73.7	65.2
87.5°	24.1	24.1	31.2	34.0	29.8	41.1	32.6	35.4	28.4	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2705.5
2719.7
2740.9
2766.5
2790.6
2814.7
2853.0
2899.7
2953.6
3007.5
3068.5
3152.1
3271.3
3432.9
3637.1
3886.7
4178.8
4500.6
4843.8
5179.8
5532.9
5849.1
6166.7
6526.9
6942.4
7482.6
7973.2
7830.0
6756.6
4275.2
1188.3
296.4
158.8
104.9
68.1
28.4
0.0

OF REPORT)