

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: P949682

Luminaire Tested: **GALN-SB4B-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22621 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

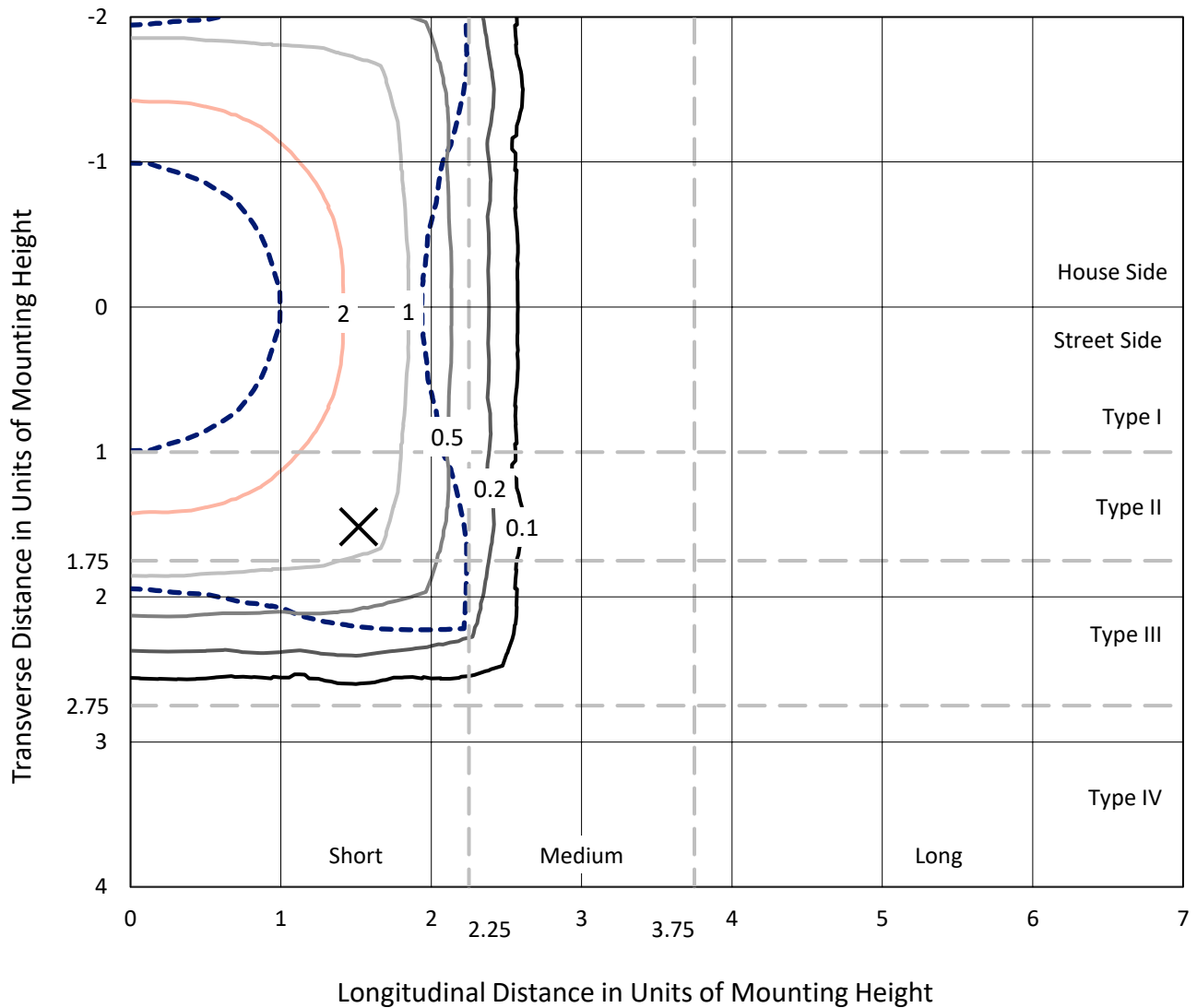
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

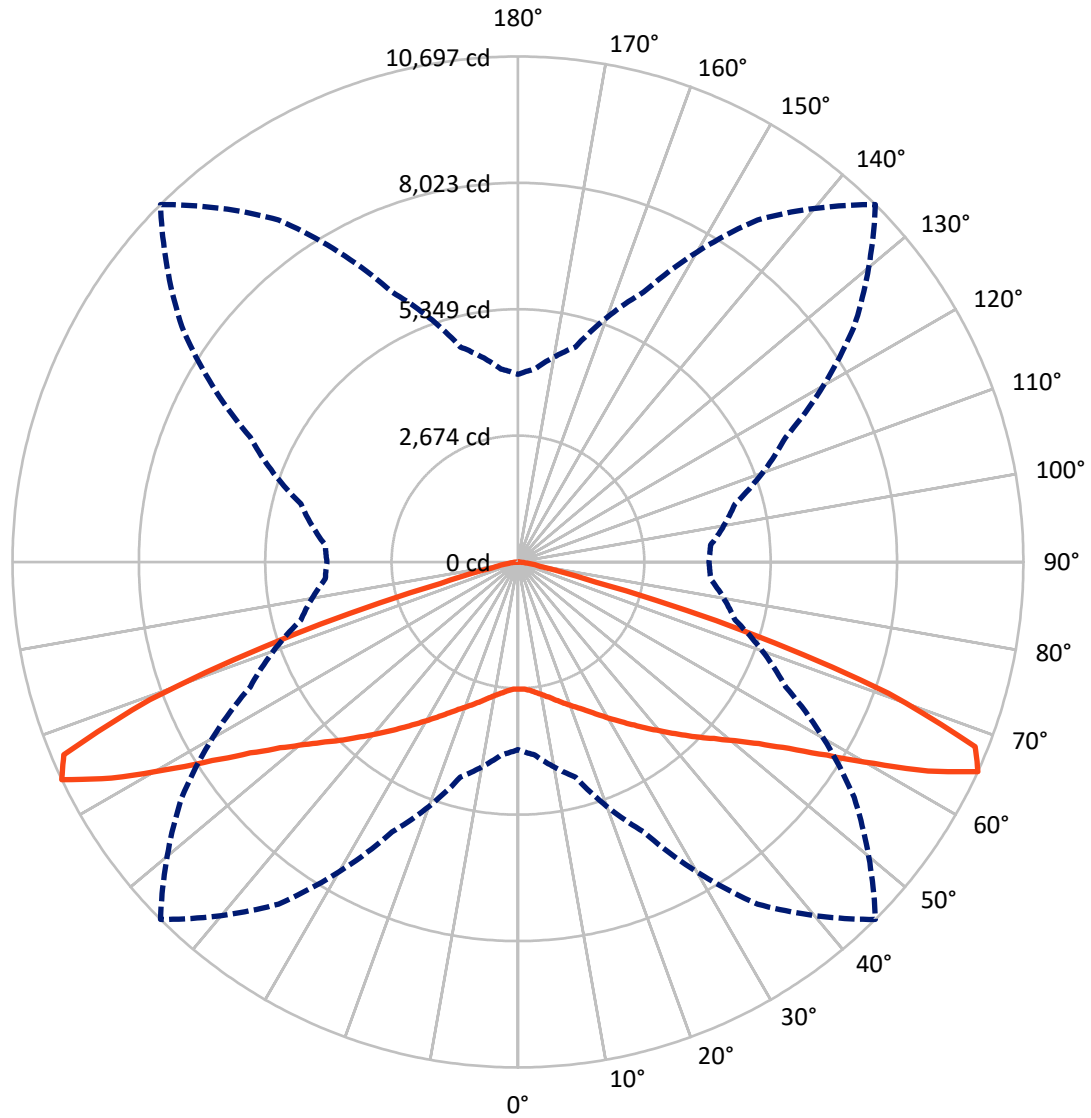
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11310.5	0.0	11310.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11310.5	0.0	11310.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22621.0	0.0	22621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	1.2
10°-20°	867.0	3.8
20°-30°	1636.9	7.2
30°-40°	2680.4	11.8
40°-50°	4156.0	18.4
50°-60°	6139.2	27.1
60°-70°	5844.0	25.8
70°-80°	943.0	4.2
80°-90°	88.9	0.4
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°	22621.0	100.0
0°-180°	22621.0	100.0

Coefficient of Utilization



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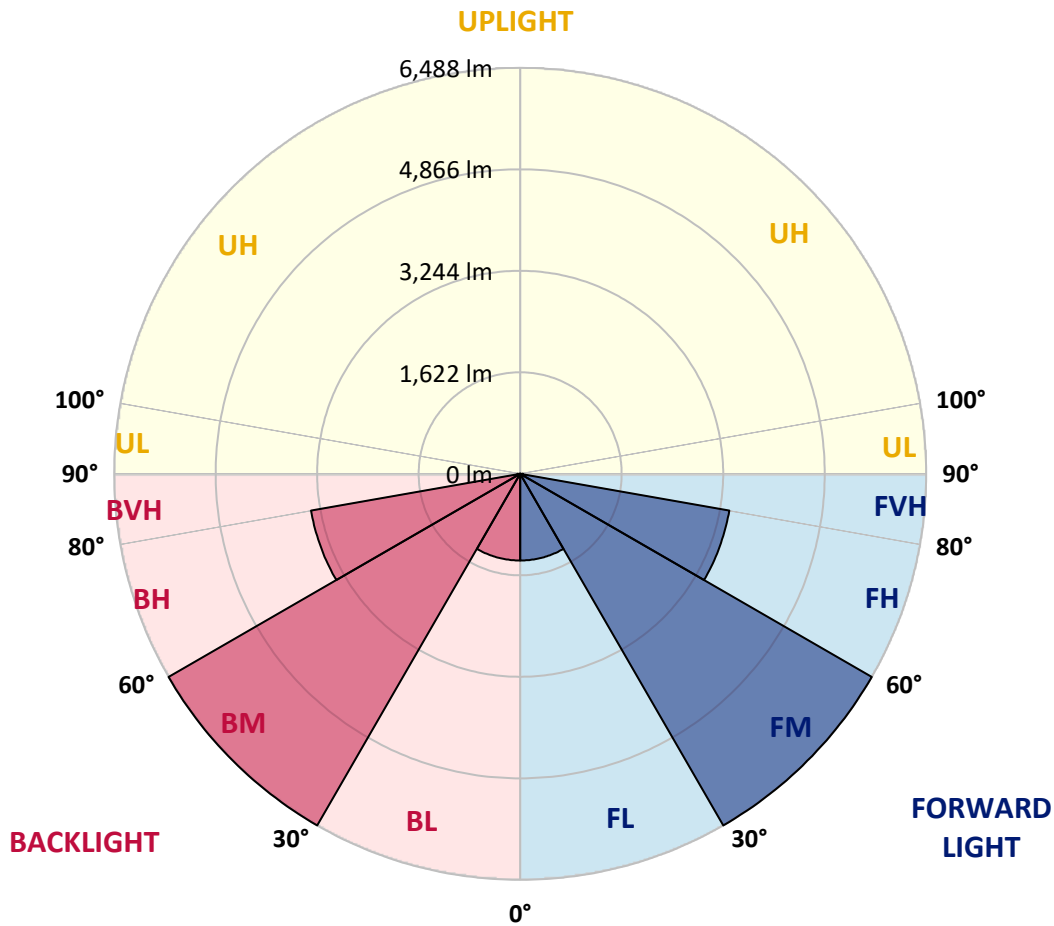
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.8	6.1			
FM (30°-60°)	6487.8	28.7			
FH (60°-80°)	3393.5	15.0			G2/5000
FVH (80°-90°)	44.4	0.2			G1/100
BL (0°-30°)	1384.8	6.1	B3/2500		
BM (30°-60°)	6487.8	28.7	B4/8500		
BH (60°-80°)	3393.5	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.4	0.2			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°
0°	2692.1	2692.1	2692.1	2692.1	2692.1	2692.1	2692.1	2692.1	2692.1	2692.1
2.5°	2710.3	2701.2	2708.0	2702.3	2697.8	2693.3	2695.5	2703.5	2706.9	2708.0
5°	2746.6	2738.7	2742.1	2742.1	2734.1	2731.8	2733.0	2738.7	2745.5	2745.5
7.5°	2805.6	2797.7	2805.6	2801.1	2794.3	2792.0	2790.9	2795.4	2805.6	2805.6
10°	2877.1	2868.0	2872.6	2870.3	2862.4	2859.0	2857.8	2864.6	2873.7	2872.6
12.5°	2955.4	2945.2	2950.9	2944.1	2941.8	2938.4	2938.4	2937.3	2943.0	2938.4
15°	3042.8	3036.0	3038.3	3033.7	3037.2	3034.9	3025.8	3021.3	3023.5	3016.7
17.5°	3146.1	3130.2	3138.2	3135.9	3135.9	3140.4	3125.7	3120.0	3124.5	3117.7
20°	3265.3	3249.4	3252.8	3248.3	3242.6	3247.1	3229.0	3233.5	3236.9	3232.4
22.5°	3395.8	3375.4	3374.2	3376.5	3364.0	3365.2	3352.7	3364.0	3370.8	3358.3
25°	3529.7	3508.2	3522.9	3517.2	3501.4	3504.8	3495.7	3507.0	3512.7	3496.8
27.5°	3671.6	3656.8	3670.5	3673.9	3654.6	3668.2	3654.6	3664.8	3670.5	3646.6
30°	3837.3	3822.5	3835.0	3844.1	3821.4	3843.0	3831.6	3838.4	3839.6	3811.2
32.5°	4017.8	3995.1	4026.8	4031.4	4006.4	4032.5	4017.8	4026.8	4032.5	3993.9
35°	4237.9	4209.6	4245.9	4240.2	4218.6	4240.2	4226.6	4240.2	4253.8	4207.3
37.5°	4475.1	4445.6	4484.2	4474.0	4453.6	4468.3	4460.4	4469.5	4491.0	4441.1
40°	4736.2	4699.9	4752.1	4733.9	4714.6	4712.4	4716.9	4722.6	4750.9	4695.3
42.5°	5015.4	4976.8	5055.1	5026.7	4999.5	4981.3	4996.1	5007.4	5034.7	4972.3
45°	5334.3	5290.0	5392.2	5358.1	5315.0	5277.6	5301.4	5318.4	5358.1	5283.2
47.5°	5686.1	5636.2	5745.2	5735.0	5664.6	5582.9	5637.3	5686.1	5715.7	5624.9
50°	6030.0	5991.5	6134.5	6146.9	6060.7	5946.1	6022.1	6095.9	6103.8	5984.6
52.5°	6352.4	6313.8	6521.5	6599.8	6522.6	6386.4	6467.0	6541.9	6481.8	6327.4
55°	6610.0	6578.2	6842.7	7044.7	7070.8	6958.4	7006.1	7003.8	6806.4	6569.1
57.5°	6672.4	6667.9	7001.6	7429.4	7701.8	7715.5	7621.3	7380.6	6955.0	6636.1
60°	6388.7	6417.1	6875.6	7630.3	8356.7	8658.6	8251.2	7564.5	6785.9	6343.3
62.5°	5539.7	5614.6	6167.4	7385.2	8885.6	9743.6	8756.2	7285.3	6091.3	5513.6
65°	3970.1	4100.6	4711.2	6302.4	8837.9	10697.0	8683.6	6251.4	4756.6	4090.4
67.5°	1801.2	1934.0	2452.6	4315.1	7682.5	10438.2	7664.4	4360.5	2575.2	1940.8
70°	652.6	675.3	842.1	1727.4	4909.8	8317.0	5119.8	1739.9	895.5	719.6
72.5°	395.0	398.4	433.6	618.6	1705.8	5049.4	1778.5	639.0	442.6	392.7
75°	250.8	248.6	308.7	377.9	604.9	1703.6	634.4	377.9	307.6	280.3
77.5°	180.5	186.1	221.3	282.6	381.3	577.7	374.5	270.1	221.3	181.6
80°	135.1	138.5	161.2	220.2	267.9	359.8	238.3	199.8	166.8	113.5
82.5°	97.6	97.6	105.6	160.0	163.4	194.1	129.4	140.7	110.1	80.6
85°	57.9	56.7	65.8	95.3	85.1	71.5	59.0	86.3	69.2	49.9
87.5°	20.4	21.6	20.4	27.2	22.7	19.3	18.2	23.8	19.3	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2692.1
2708.0
2745.5
2802.2
2870.3
2940.7
3017.9
3123.4
3242.6
3370.8
3515.0
3664.8
3828.2
4020.0
4235.7
4471.7
4713.5
5005.2
5321.8
5655.5
5999.4
6331.9
6577.1
6615.7
6291.1
5479.6
4041.6
1912.4
710.5
399.5
282.6
185.0
116.9
80.6
48.8
15.9
0.0

OF REPORT)