

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: P949643

Luminaire Tested: **GALN-SB4B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20882 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

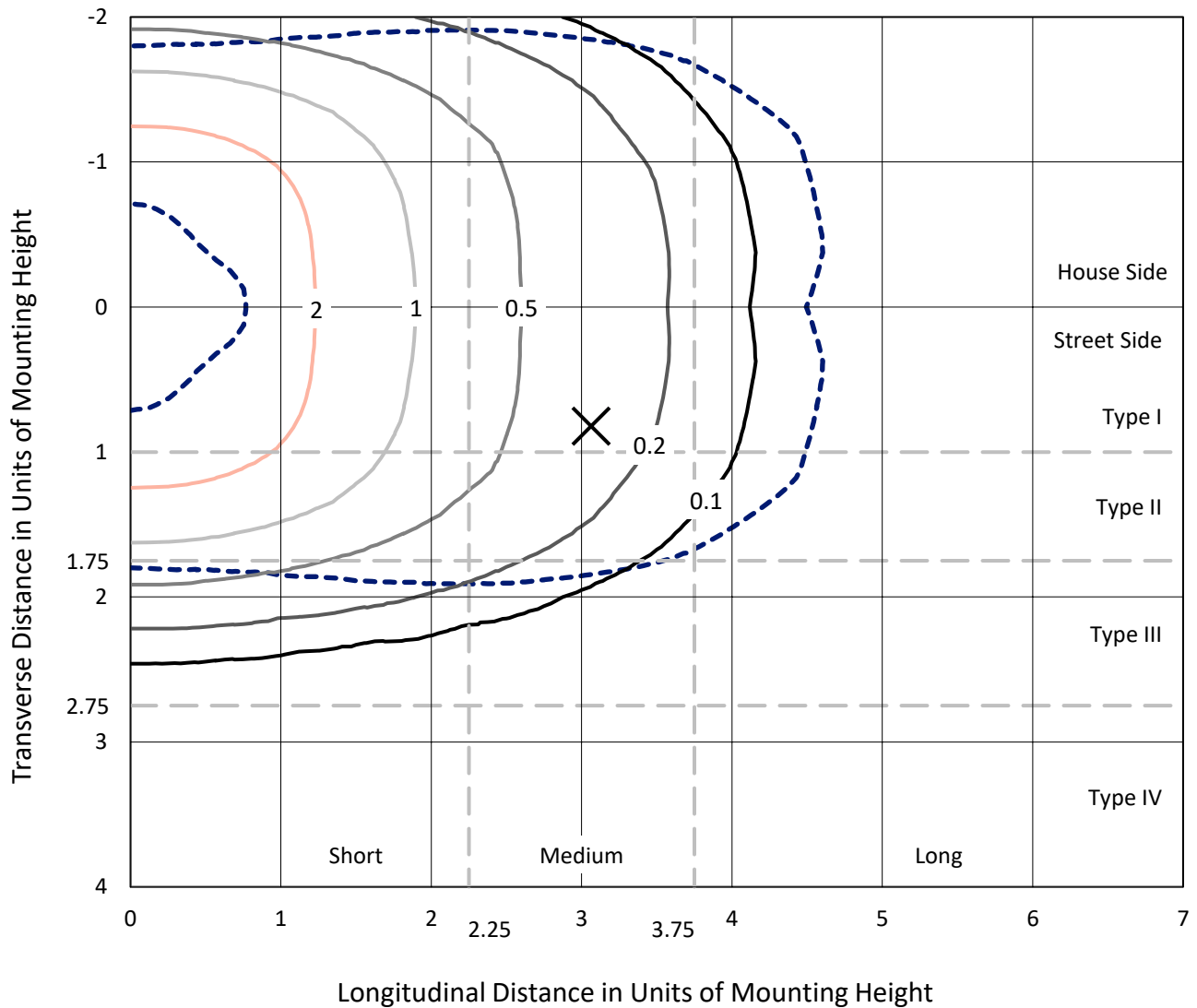
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

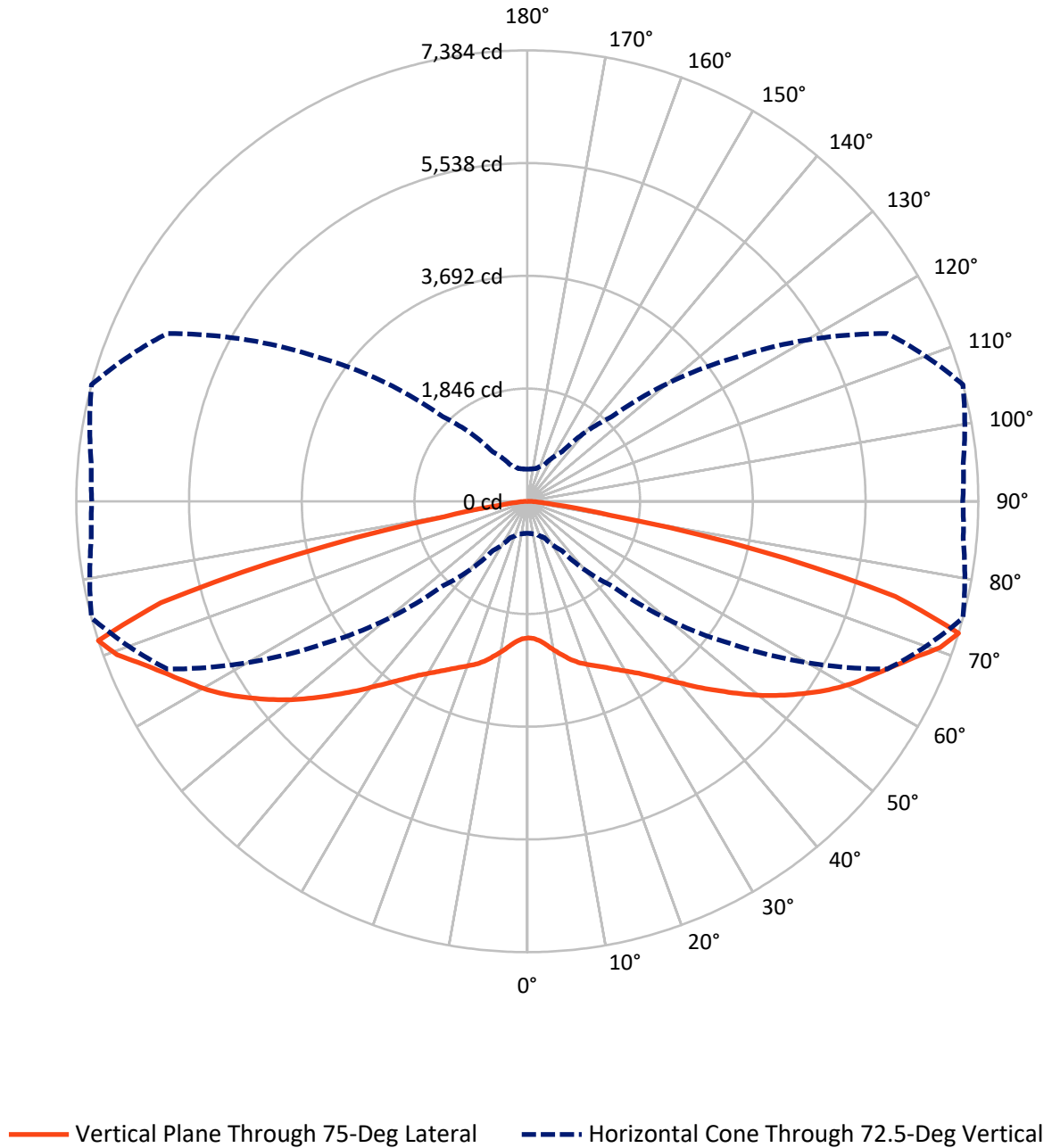
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10441.0	0.0	10441.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10441.0	0.0	10441.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20882.0	0.0	20882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	1.0
10°-20°	722.7	3.5
20°-30°	1396.5	6.7
30°-40°	2358.0	11.3
40°-50°	3739.5	17.9
50°-60°	5006.8	24.0
60°-70°	4764.8	22.8
70°-80°	2486.4	11.9
80°-90°	188.2	0.9
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°	20882.0	100.0
0°-180°	20882.0	100.0

Coefficient of Utilization



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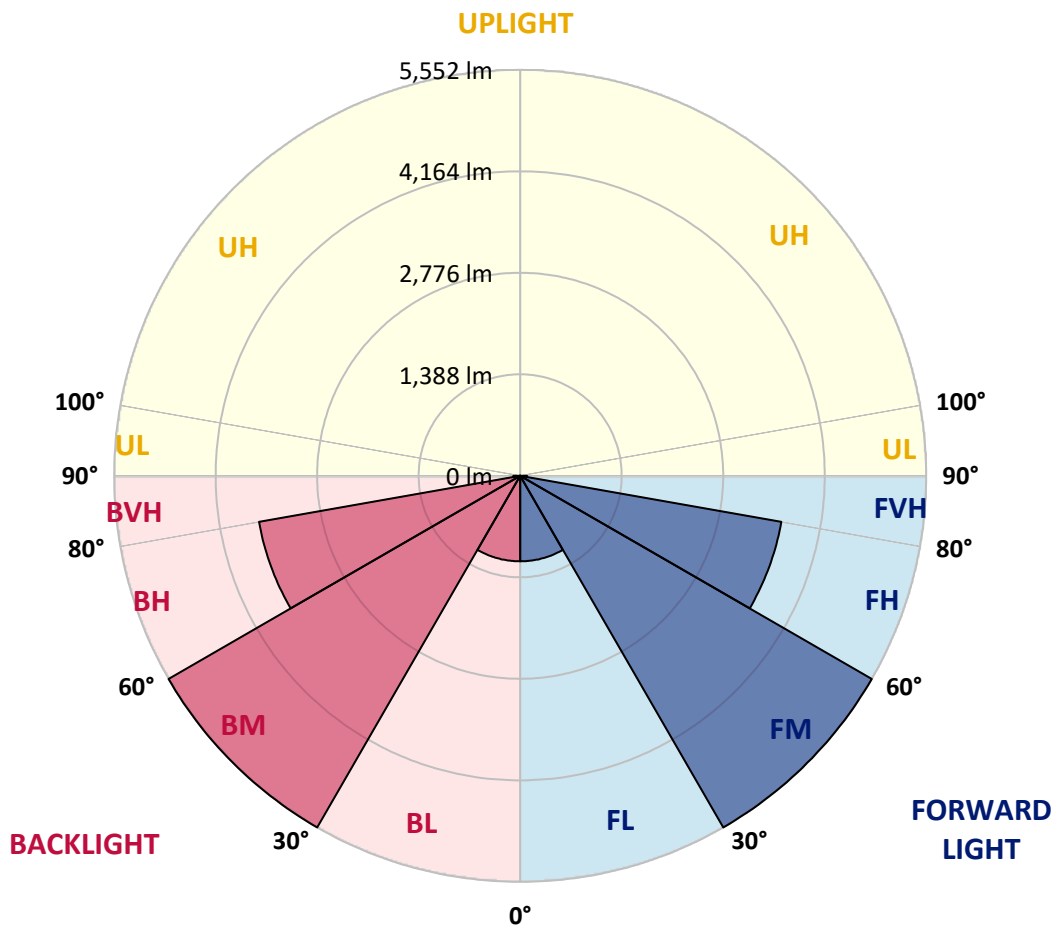
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.1	5.6			
FM (30°-60°)	5552.1	26.6			
FH (60°-80°)	3625.6	17.4			G2/5000
FVH (80°-90°)	94.1	0.5			G1/100
BL (0°-30°)	1169.1	5.6	B3/2500		
BM (30°-60°)	5552.1	26.6	B4/8500		
BH (60°-80°)	3625.6	17.4	B4/5000		G4/5000
BVH (80°-90°)	94.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2236.8	2236.8	2236.8	2236.8	2236.8	2236.8	2236.8	2236.8	2236.8	2236.8
2.5°	2236.8	2234.7	2236.8	2239.0	2237.9	2237.9	2243.2	2246.4	2252.8	2251.8
5°	2221.9	2220.8	2229.4	2239.0	2246.4	2259.2	2275.2	2286.9	2301.9	2305.1
7.5°	2214.4	2211.2	2226.2	2243.2	2266.7	2298.7	2329.6	2361.6	2387.2	2395.7
10°	2219.8	2220.8	2241.1	2273.1	2310.4	2355.2	2398.9	2453.3	2489.5	2498.0
12.5°	2244.3	2242.2	2276.3	2327.5	2378.6	2435.1	2486.3	2546.0	2585.5	2605.7
15°	2289.1	2284.8	2332.8	2408.5	2483.1	2549.2	2590.8	2647.3	2693.2	2718.7
17.5°	2342.4	2344.5	2407.4	2505.5	2603.6	2678.2	2717.7	2746.5	2781.7	2804.0
20°	2436.2	2440.5	2510.8	2627.1	2739.0	2824.3	2856.3	2845.6	2855.2	2872.3
22.5°	2562.0	2564.2	2643.0	2768.9	2886.1	2980.0	3001.3	2957.6	2930.9	2942.6
25°	2708.1	2721.9	2800.8	2929.9	3050.3	3139.9	3149.5	3083.4	3017.3	3020.5
27.5°	2886.1	2898.9	2978.9	3106.8	3229.4	3307.3	3306.2	3217.7	3120.7	3096.2
30°	3079.1	3093.0	3175.1	3307.3	3421.4	3489.6	3474.7	3369.1	3230.5	3184.7
32.5°	3308.3	3316.9	3400.0	3532.2	3637.8	3692.2	3661.2	3531.2	3358.5	3306.2
35°	3585.5	3598.3	3660.2	3784.9	3877.7	3922.5	3870.2	3716.7	3522.6	3464.0
37.5°	3902.2	3893.7	3964.0	4074.9	4151.7	4179.4	4108.0	3925.7	3710.3	3641.0
40°	4232.7	4228.5	4305.2	4411.8	4453.4	4470.5	4364.9	4165.5	3926.7	3852.1
42.5°	4532.3	4529.1	4632.5	4750.9	4801.0	4781.8	4648.5	4420.4	4177.3	4092.0
45°	4772.2	4767.9	4894.8	5061.1	5159.2	5127.2	4948.1	4701.8	4431.0	4342.5
47.5°	4956.6	4958.8	5095.3	5301.0	5472.7	5484.4	5254.1	4988.6	4710.4	4610.1
50°	5089.9	5096.3	5242.4	5470.5	5705.1	5808.5	5566.5	5282.9	4999.3	4886.3
52.5°	5123.0	5134.7	5310.6	5578.2	5854.4	6051.6	5884.2	5565.4	5273.3	5165.6
55°	4947.1	4970.5	5193.3	5569.7	5946.1	6211.5	6163.6	5852.2	5549.4	5438.6
57.5°	4543.0	4576.0	4836.2	5327.7	5925.8	6321.4	6380.0	6127.3	5825.6	5719.0
60°	3976.8	4016.3	4265.8	4802.1	5640.1	6361.9	6532.5	6394.9	6079.3	5975.9
62.5°	3122.8	3174.0	3472.5	4101.6	5036.6	6173.2	6662.5	6636.9	6307.5	6178.5
65°	2003.3	2057.7	2372.2	3115.4	4231.7	5595.3	6703.0	6872.6	6548.4	6368.3
67.5°	1208.0	1232.5	1388.2	1888.2	3093.0	4724.2	6359.7	7133.8	6829.9	6606.0
70°	773.0	786.8	879.6	1108.8	1748.5	3446.9	5508.9	7182.8	7171.1	6850.2
72.5°	524.6	528.8	553.3	656.8	989.4	1958.6	4063.2	6502.6	7384.3	7164.7
75°	383.8	407.3	446.7	464.9	561.9	978.7	2328.5	4568.6	6223.3	6319.2
77.5°	285.7	286.8	341.2	362.5	400.9	521.4	985.1	2550.3	3863.8	4056.8
80°	242.0	229.2	228.2	292.1	301.7	325.2	440.3	880.7	1383.9	839.1
82.5°	201.5	187.6	169.5	228.2	205.8	199.4	190.8	358.2	440.3	216.4
85°	140.7	134.3	127.9	149.3	117.3	100.2	91.7	167.4	185.5	91.7
87.5°	60.8	62.9	64.0	66.1	49.0	35.2	35.2	46.9	46.9	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2236.8
2250.7
2305.1
2397.8
2506.6
2614.3
2728.3
2814.7
2885.1
2951.2
3025.8
3103.6
3190.0
3319.0
3472.5
3653.8
3876.6
4113.3
4362.8
4640.0
4920.4
5193.3
5469.5
5743.5
5998.3
6193.4
6390.7
6623.1
6848.0
7130.6
6086.8
3618.6
634.4
184.4
81.0
26.7
0.0

OF REPORT)