

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: P949283

Luminaire Tested: **GALN-SB4A-830-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949283  
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-SB4A-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

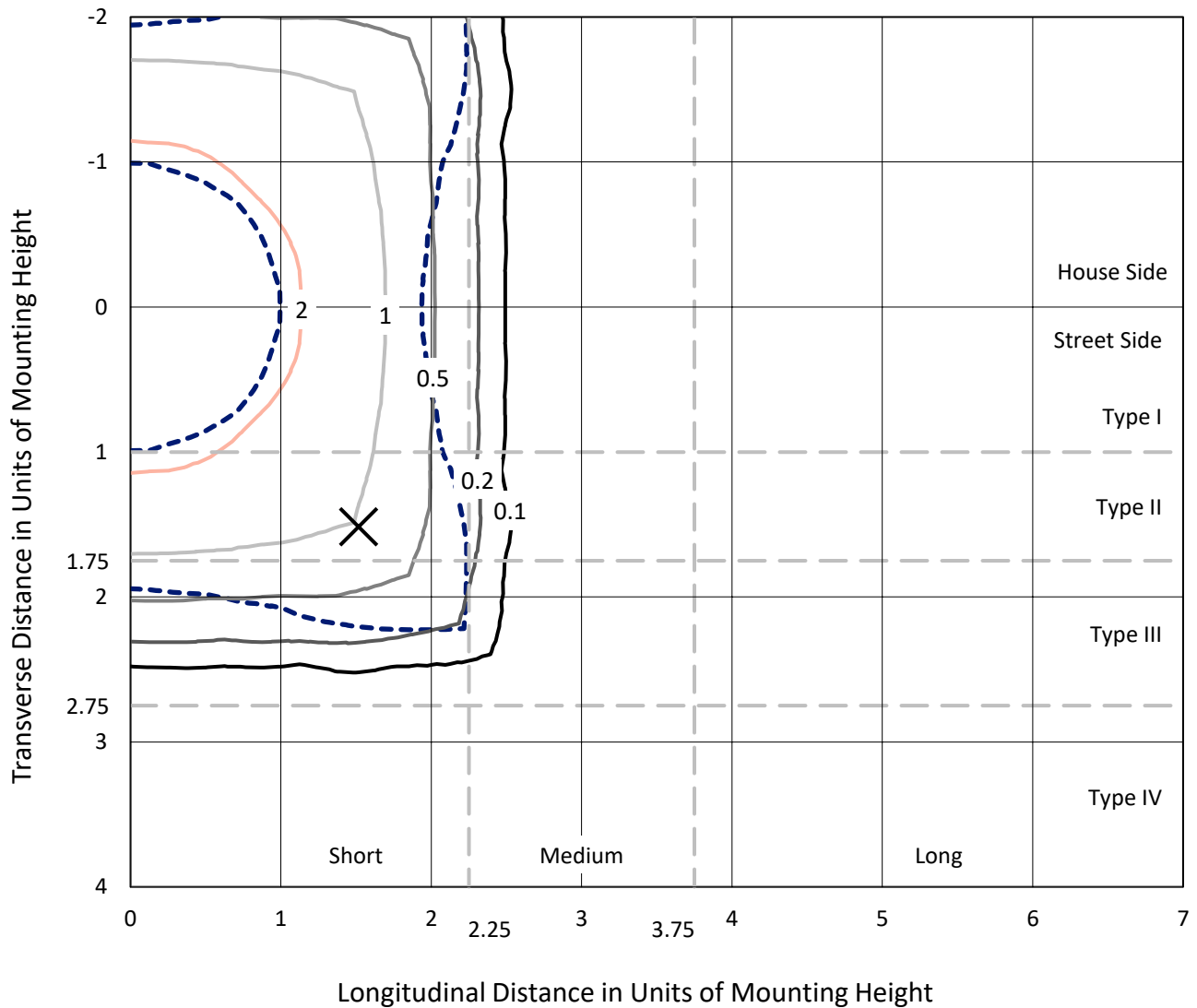
Lumens per Lamp: N/A  
Luminaire Lumens: 16928 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

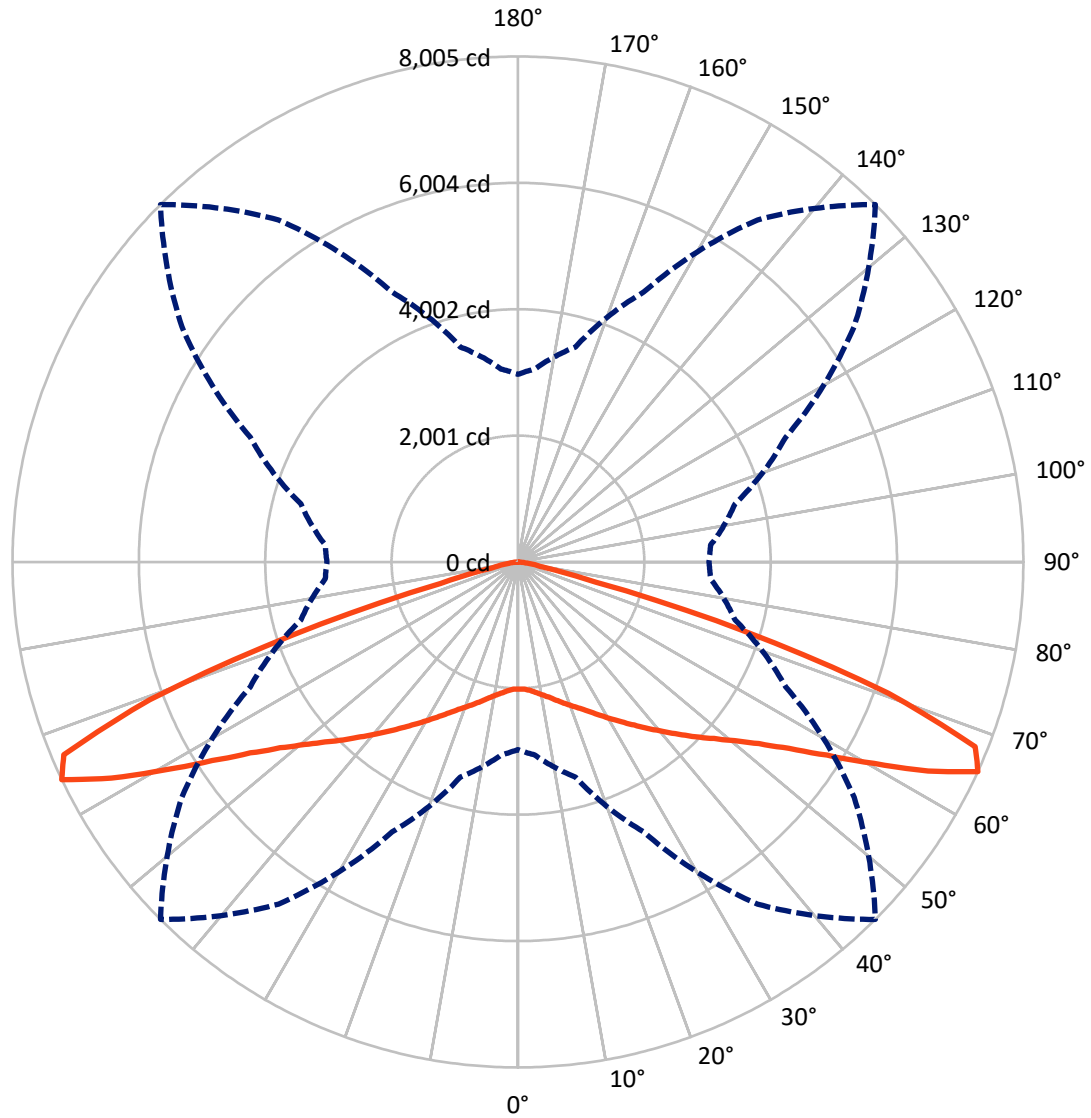
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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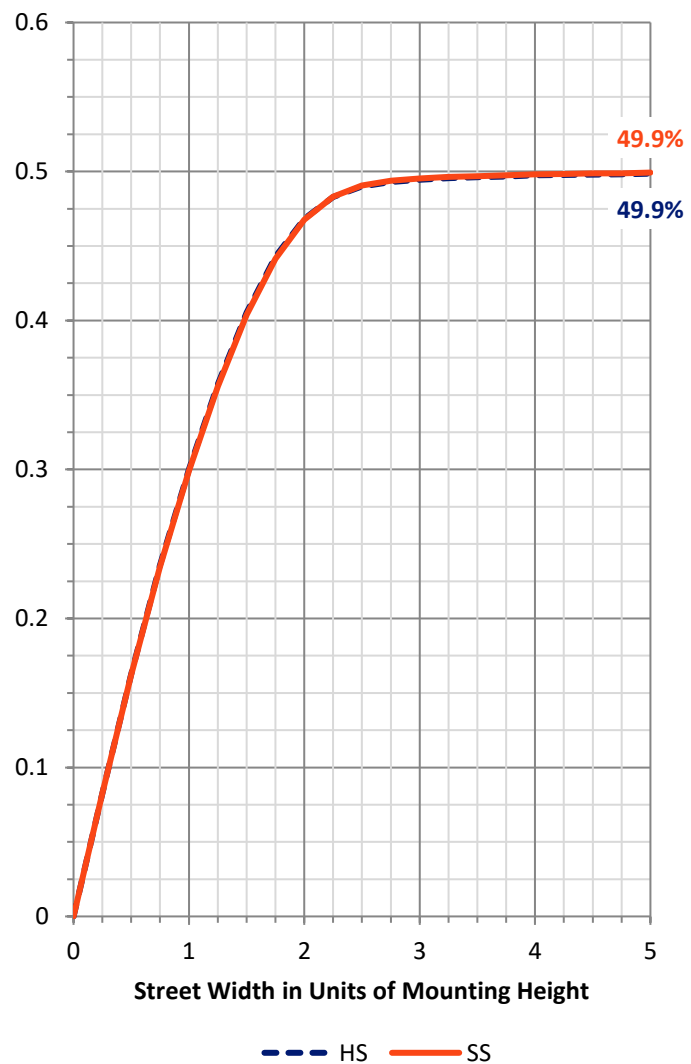
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8464.0	0.0	8464.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8464.0	0.0	8464.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16928.0	0.0	16928.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.8	1.2
10°-20°	648.8	3.8
20°-30°	1225.0	7.2
30°-40°	2005.8	11.8
40°-50°	3110.0	18.4
50°-60°	4594.2	27.1
60°-70°	4373.2	25.8
70°-80°	705.7	4.2
80°-90°	66.5	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°	16928.0	100.0
0°-180°	16928.0	100.0



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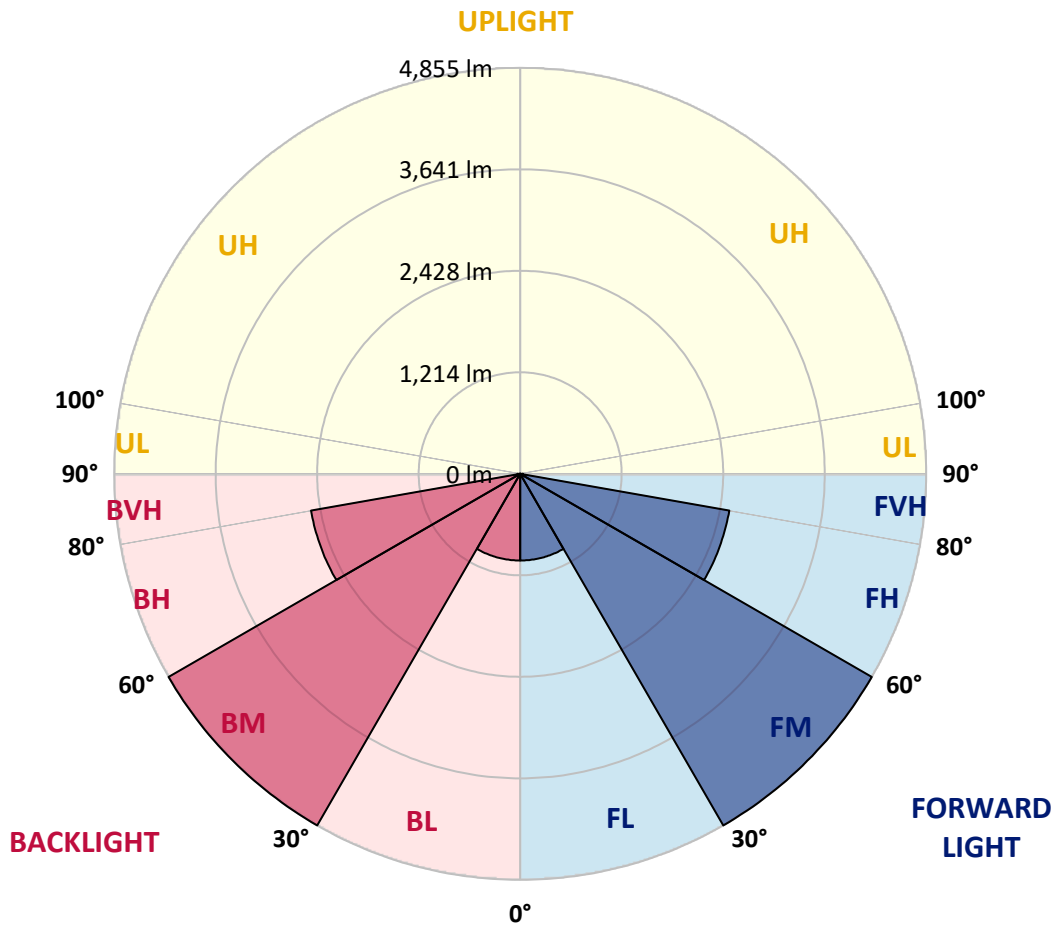
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.3	6.1			
FM (30°-60°)	4855.0	28.7			
FH (60°-80°)	2539.5	15.0			G2/5000
FVH (80°-90°)	33.3	0.2			G1/100
BL (0°-30°)	1036.3	6.1	B3/2500		
BM (30°-60°)	4855.0	28.7	B3/5000		
BH (60°-80°)	2539.5	15.0	B4/5000		G2/5000
BVH (80°-90°)	33.3	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°	2014.6	2014.6	2014.6	2014.6	2014.6	2014.6	2014.6	2014.6	2014.6	2014.6
2.5°	2028.2	2021.4	2026.5	2022.2	2018.8	2015.5	2017.1	2023.1	2025.6	2026.5
5°	2055.4	2049.4	2052.0	2052.0	2046.0	2044.3	2045.2	2049.4	2054.5	2054.5
7.5°	2099.5	2093.6	2099.5	2096.1	2091.0	2089.3	2088.5	2091.9	2099.5	2099.5
10°	2153.0	2146.2	2149.6	2147.9	2142.0	2139.5	2138.6	2143.7	2150.5	2149.6
12.5°	2211.6	2204.0	2208.2	2203.2	2201.5	2198.9	2198.9	2198.1	2202.3	2198.9
15°	2277.0	2271.9	2273.6	2270.2	2272.8	2271.1	2264.3	2260.9	2262.6	2257.5
17.5°	2354.3	2342.4	2348.4	2346.7	2346.7	2350.1	2339.0	2334.8	2338.2	2333.1
20°	2443.5	2431.6	2434.2	2430.8	2426.5	2429.9	2416.3	2419.7	2422.3	2418.9
22.5°	2541.2	2525.9	2525.0	2526.7	2517.4	2518.3	2508.9	2517.4	2522.5	2513.2
25°	2641.4	2625.3	2636.3	2632.1	2620.2	2622.7	2615.9	2624.4	2628.7	2616.8
27.5°	2747.6	2736.5	2746.7	2749.3	2734.8	2745.0	2734.8	2742.5	2746.7	2728.9
30°	2871.6	2860.5	2869.9	2876.7	2859.7	2875.8	2867.3	2872.4	2873.3	2852.0
32.5°	3006.6	2989.6	3013.4	3016.8	2998.1	3017.7	3006.6	3013.4	3017.7	2988.8
35°	3171.4	3150.2	3177.3	3173.1	3156.9	3173.1	3162.9	3173.1	3183.3	3148.5
37.5°	3348.9	3326.8	3355.7	3348.0	3332.8	3343.8	3337.9	3344.6	3360.8	3323.4
40°	3544.2	3517.1	3556.1	3542.5	3528.1	3526.4	3529.8	3534.0	3555.3	3513.7
42.5°	3753.2	3724.3	3782.9	3761.7	3741.3	3727.7	3738.7	3747.2	3767.6	3720.9
45°	3991.8	3958.7	4035.1	4009.7	3977.4	3949.4	3967.2	3979.9	4009.7	3953.6
47.5°	4255.1	4217.8	4299.3	4291.6	4239.0	4177.8	4218.6	4255.1	4277.2	4209.3
50°	4512.5	4483.6	4590.6	4599.9	4535.4	4449.6	4506.5	4561.7	4567.7	4478.5
52.5°	4753.7	4724.8	4880.2	4938.8	4881.1	4779.2	4839.5	4895.5	4850.5	4735.0
55°	4946.5	4922.7	5120.6	5271.8	5291.3	5207.2	5242.9	5241.2	5093.4	4915.9
57.5°	4993.2	4989.8	5239.5	5559.7	5763.5	5773.7	5703.2	5523.2	5204.7	4966.0
60°	4780.9	4802.1	5145.2	5710.0	6253.6	6479.5	6174.6	5660.8	5078.1	4746.9
62.5°	4145.6	4201.6	4615.2	5526.6	6649.4	7291.5	6552.6	5451.8	4558.3	4126.0
65°	2970.9	3068.6	3525.6	4716.3	6613.7	8004.9	6498.2	4678.1	3559.5	3061.0
67.5°	1347.9	1447.3	1835.4	3229.1	5749.1	7811.3	5735.5	3263.1	1927.1	1452.3
70°	488.4	505.3	630.2	1292.7	3674.2	6223.9	3831.3	1302.0	670.1	538.5
72.5°	295.6	298.1	324.4	462.9	1276.5	3778.7	1330.9	478.2	331.2	293.9
75°	187.7	186.0	231.0	282.8	452.7	1274.8	474.8	282.8	230.2	209.8
77.5°	135.0	139.3	165.6	211.5	285.4	432.3	280.3	202.1	165.6	135.9
80°	101.1	103.6	120.6	164.8	200.4	269.2	178.4	149.5	124.9	84.9
82.5°	73.0	73.0	79.0	119.8	122.3	145.2	96.8	105.3	82.4	60.3
85°	43.3	42.5	49.3	71.3	63.7	53.5	44.2	64.5	51.8	37.4
87.5°	15.3	16.1	15.3	20.4	17.0	14.4	13.6	17.8	14.4	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2014.6
2026.5
2054.5
2097.0
2147.9
2200.6
2258.4
2337.3
2426.5
2522.5
2630.4
2742.5
2864.8
3008.3
3169.7
3346.3
3527.3
3745.5
3982.5
4232.2
4489.5
4738.4
4921.8
4950.7
4707.8
4100.5
3024.4
1431.1
531.7
299.0
211.5
138.4
87.5
60.3
36.5
11.9
0.0

OF REPORT)