

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: P941680

Luminaire Tested: **GALN-SB5B-830-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

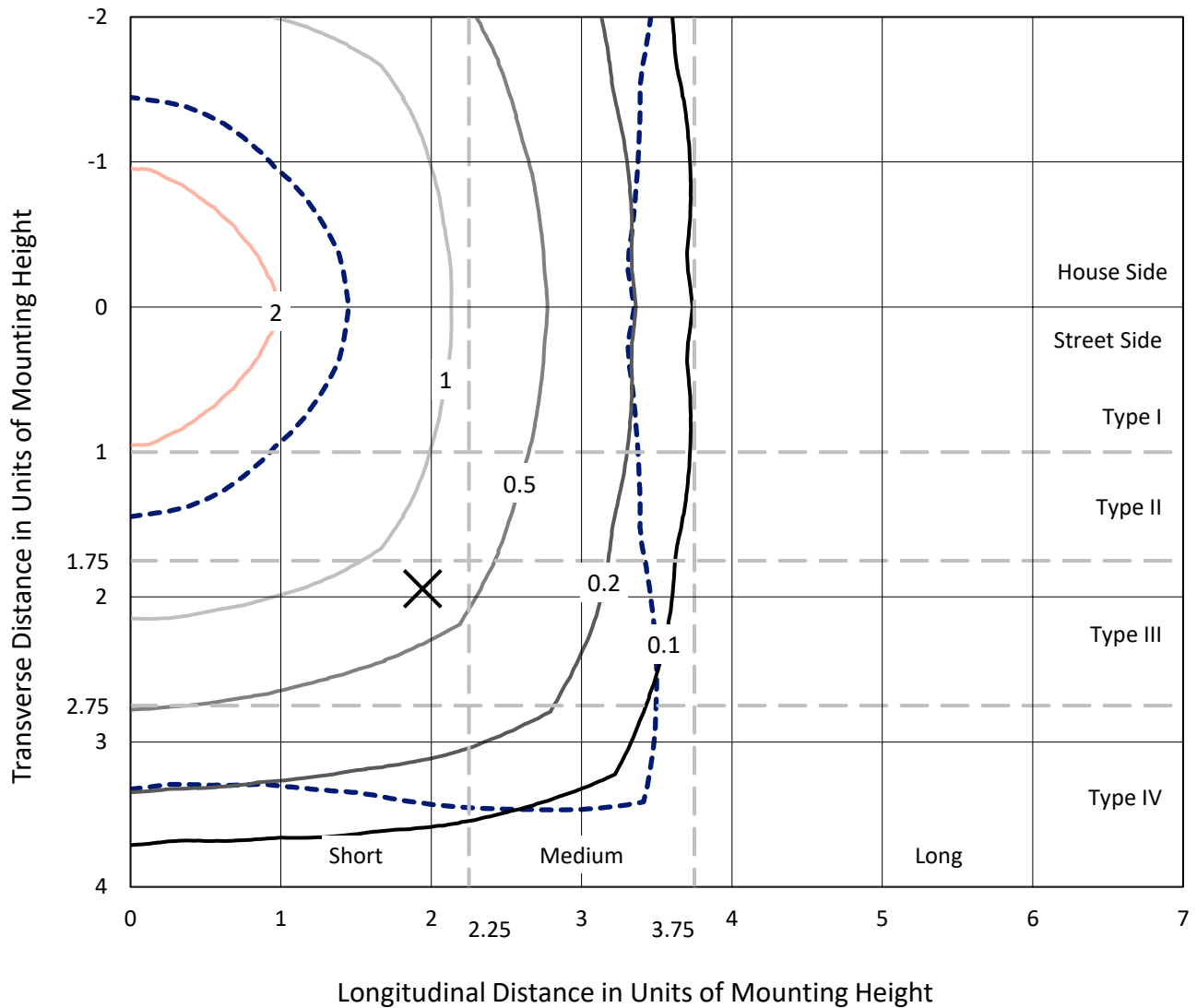
Lumens per Lamp: N/A  
Luminaire Lumens: 25853 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

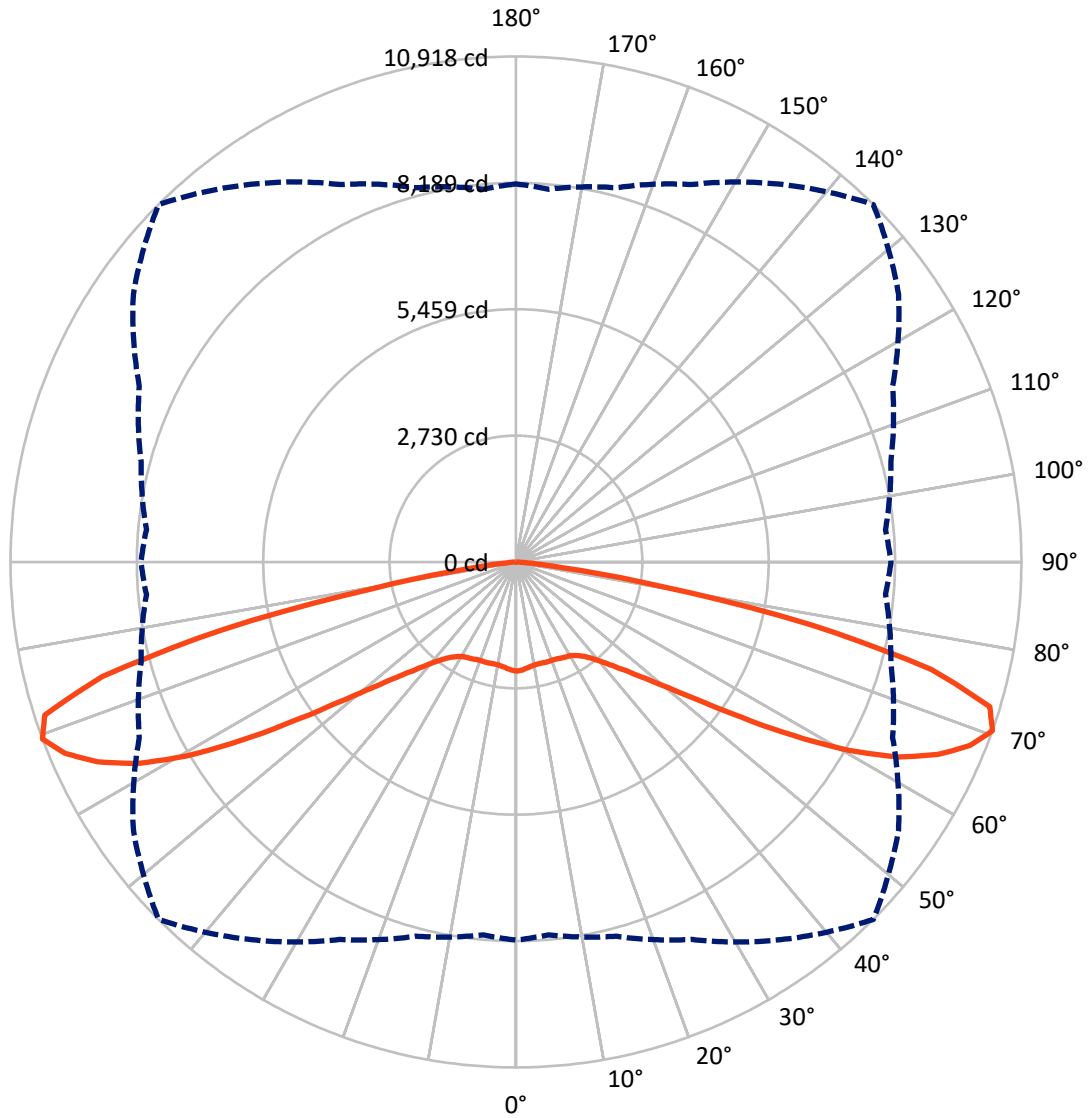
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
<b>House Side</b>	Lumens	12926.5	0.0	12926.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12926.5	0.0	12926.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25853.0	0.0	25853.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	0.8
10°-20°	644.2	2.5
20°-30°	1072.0	4.1
30°-40°	1621.1	6.3
40°-50°	2693.9	10.4
50°-60°	5083.3	19.7
60°-70°	8583.4	33.2
70°-80°	5640.2	21.8
80°-90°	295.5	1.1
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°	25853.0	100.0
0°-180°	25853.0	100.0

**Coefficient of Utilization**



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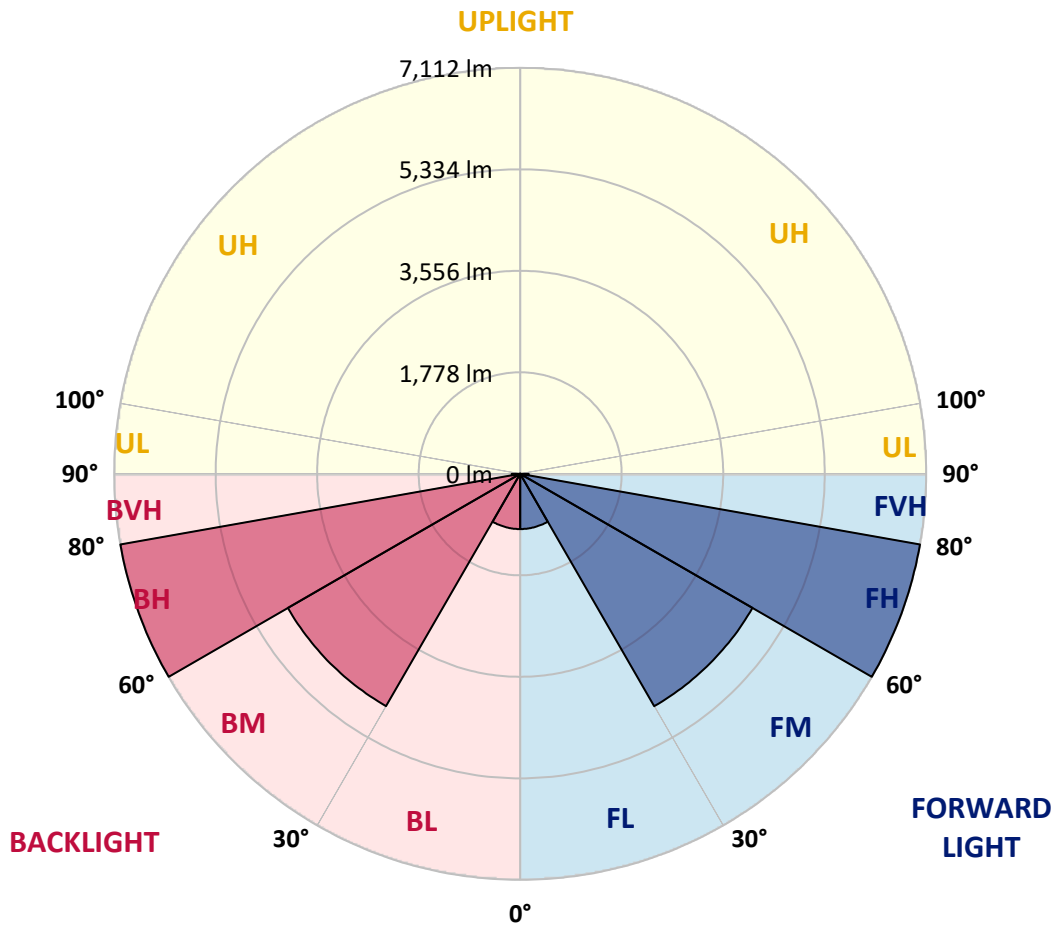
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.7	3.7			
FM (30°-60°)	4699.2	18.2			
FH (60°-80°)	7111.8	27.5			G3/7500
FVH (80°-90°)	147.7	0.6			G2/225
BL (0°-30°)	967.7	3.7	B2/1000		
BM (30°-60°)	4699.2	18.2	B3/5000		
BH (60°-80°)	7111.8	27.5	B5		G3/7500
BVH (80°-90°)	147.7	0.6			G2/225
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°	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3
2.5°	2343.5	2350.3	2347.6	2342.2	2342.2	2338.2	2342.2	2344.9	2348.9	2351.6
5°	2312.6	2318.0	2316.7	2312.6	2314.0	2309.9	2312.6	2316.7	2319.3	2320.7
7.5°	2285.8	2291.1	2288.4	2281.7	2281.7	2277.7	2279.0	2283.1	2287.1	2288.4
10°	2279.0	2284.4	2276.3	2265.6	2261.6	2256.2	2257.5	2261.6	2269.6	2273.7
12.5°	2281.7	2285.8	2277.7	2261.6	2257.5	2252.2	2252.2	2256.2	2266.9	2272.3
15°	2289.8	2293.8	2281.7	2264.3	2260.2	2256.2	2254.8	2260.2	2272.3	2281.7
17.5°	2304.6	2308.6	2289.8	2265.6	2260.2	2261.6	2260.2	2264.3	2283.1	2300.5
20°	2318.0	2320.7	2295.2	2265.6	2260.2	2261.6	2260.2	2268.3	2292.5	2316.7
22.5°	2322.0	2324.7	2300.5	2275.0	2271.0	2272.3	2271.0	2279.0	2301.9	2326.1
25°	2323.4	2327.4	2308.6	2288.4	2295.2	2297.8	2295.2	2296.5	2314.0	2335.5
27.5°	2343.5	2348.9	2331.4	2314.0	2318.0	2316.7	2320.7	2324.7	2338.2	2359.7
30°	2385.2	2389.2	2374.4	2357.0	2354.3	2344.9	2357.0	2370.4	2385.2	2404.0
32.5°	2453.7	2461.8	2443.0	2424.2	2412.1	2406.7	2416.1	2438.9	2459.1	2479.3
35°	2567.9	2573.3	2555.8	2520.9	2499.4	2499.4	2507.5	2537.0	2569.3	2594.8
37.5°	2729.2	2735.9	2705.0	2663.3	2631.1	2631.1	2641.8	2672.8	2721.1	2757.4
40°	2925.4	2934.8	2895.8	2852.8	2821.9	2816.5	2830.0	2864.9	2910.6	2956.3
42.5°	3161.9	3172.6	3121.6	3083.9	3059.8	3059.8	3066.5	3098.7	3140.4	3196.8
45°	3464.2	3483.0	3413.2	3375.5	3352.7	3358.1	3362.1	3390.3	3428.0	3492.5
47.5°	3824.4	3843.2	3769.3	3730.3	3726.3	3751.8	3735.7	3755.8	3776.0	3849.9
50°	4232.9	4265.1	4214.1	4211.4	4219.4	4266.5	4228.8	4239.6	4216.7	4263.8
52.5°	4732.8	4779.8	4770.4	4786.5	4876.5	4973.3	4887.3	4849.7	4763.7	4778.4
55°	5338.8	5410.0	5423.5	5520.2	5724.5	5922.0	5739.2	5587.4	5404.6	5371.0
57.5°	6028.1	6084.6	6149.1	6346.6	6728.3	7079.0	6728.3	6392.3	6104.7	6036.2
60°	6769.9	6839.8	6901.6	7193.2	7760.3	8253.4	7749.5	7216.0	6835.8	6743.0
62.5°	7566.8	7656.8	7699.8	8023.6	8684.8	9273.3	8694.2	8047.8	7625.9	7526.4
65°	8331.4	8405.3	8453.6	8799.0	9430.6	10020.5	9473.6	8836.6	8402.6	8272.2
67.5°	8687.5	8727.8	8846.0	9237.1	9903.6	10576.8	10016.5	9278.7	8793.6	8565.2
70°	8166.1	8084.1	8369.0	8995.2	9960.0	10918.1	10089.0	8976.4	8382.4	8011.5
72.5°	6310.3	6169.2	6663.7	7734.7	9315.0	10700.4	9379.5	7795.2	6971.5	6219.0
75°	3433.3	3273.4	3956.1	5310.6	7428.4	9274.7	7599.0	5462.4	4404.9	3407.8
77.5°	968.9	908.4	1459.3	2569.3	4468.0	6511.9	4640.0	2625.7	1730.8	1026.6
80°	297.0	287.6	389.7	774.0	1897.4	3118.9	1823.5	783.4	495.9	313.1
82.5°	176.0	161.3	193.5	282.2	483.8	979.6	470.3	294.3	236.5	158.6
85°	100.8	94.1	114.2	137.1	162.6	208.3	135.7	139.8	126.3	84.7
87.5°	41.7	37.6	44.3	43.0	37.6	48.4	36.3	43.0	51.1	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2358.3
2350.3
2320.7
2288.4
2273.7
2273.7
2283.1
2300.5
2318.0
2326.1
2334.1
2354.3
2400.0
2471.2
2585.4
2744.0
2941.5
3192.8
3489.8
3828.4
4235.6
4728.7
5318.6
5987.8
6662.4
7445.8
8207.7
8567.9
8100.2
6405.7
3629.5
1140.9
330.6
172.0
88.7
30.9
0.0

OF REPORT)