

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: P947498

Luminaire Tested: **GALN-SB2D-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947498
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-SB2D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19161 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

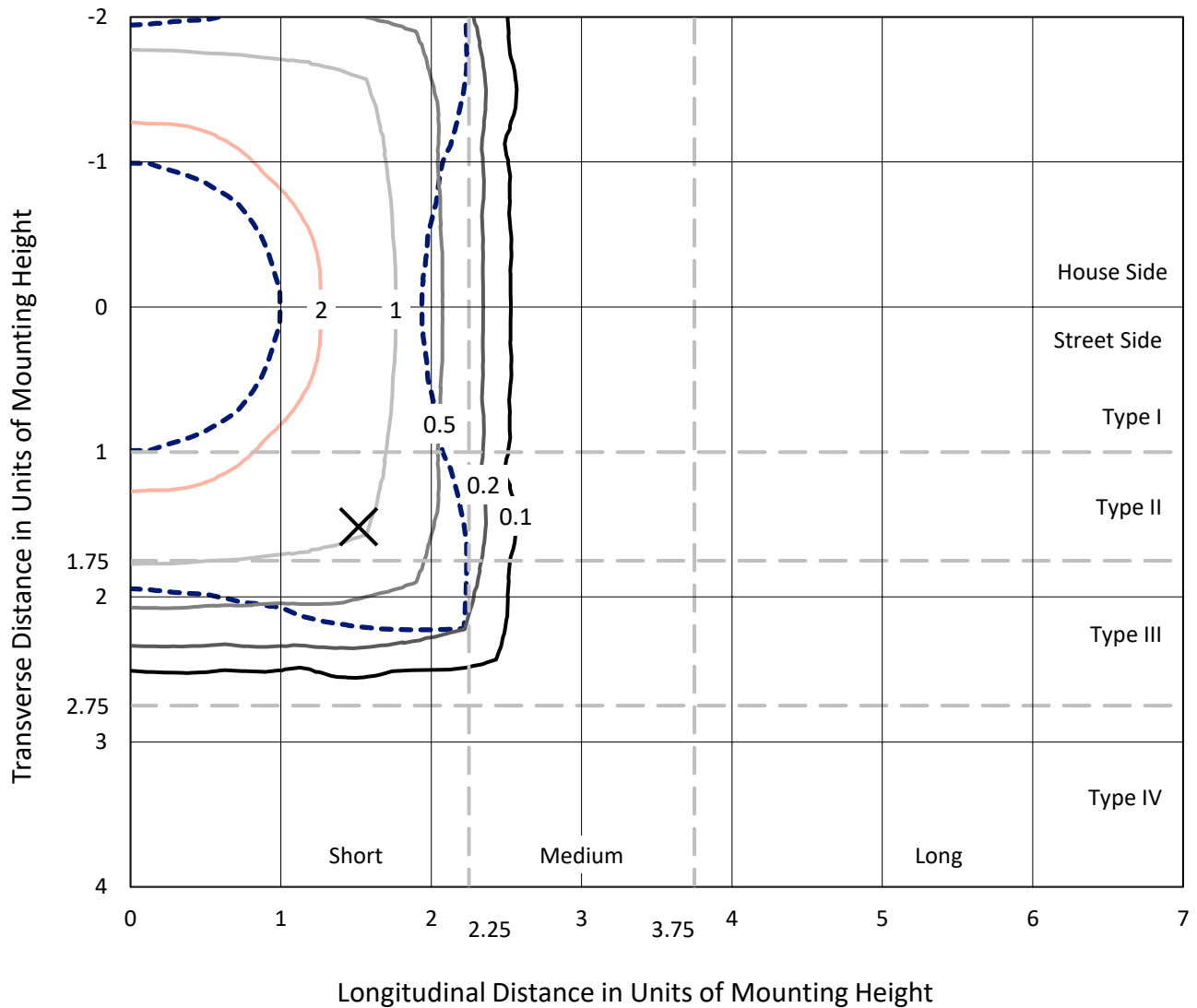
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

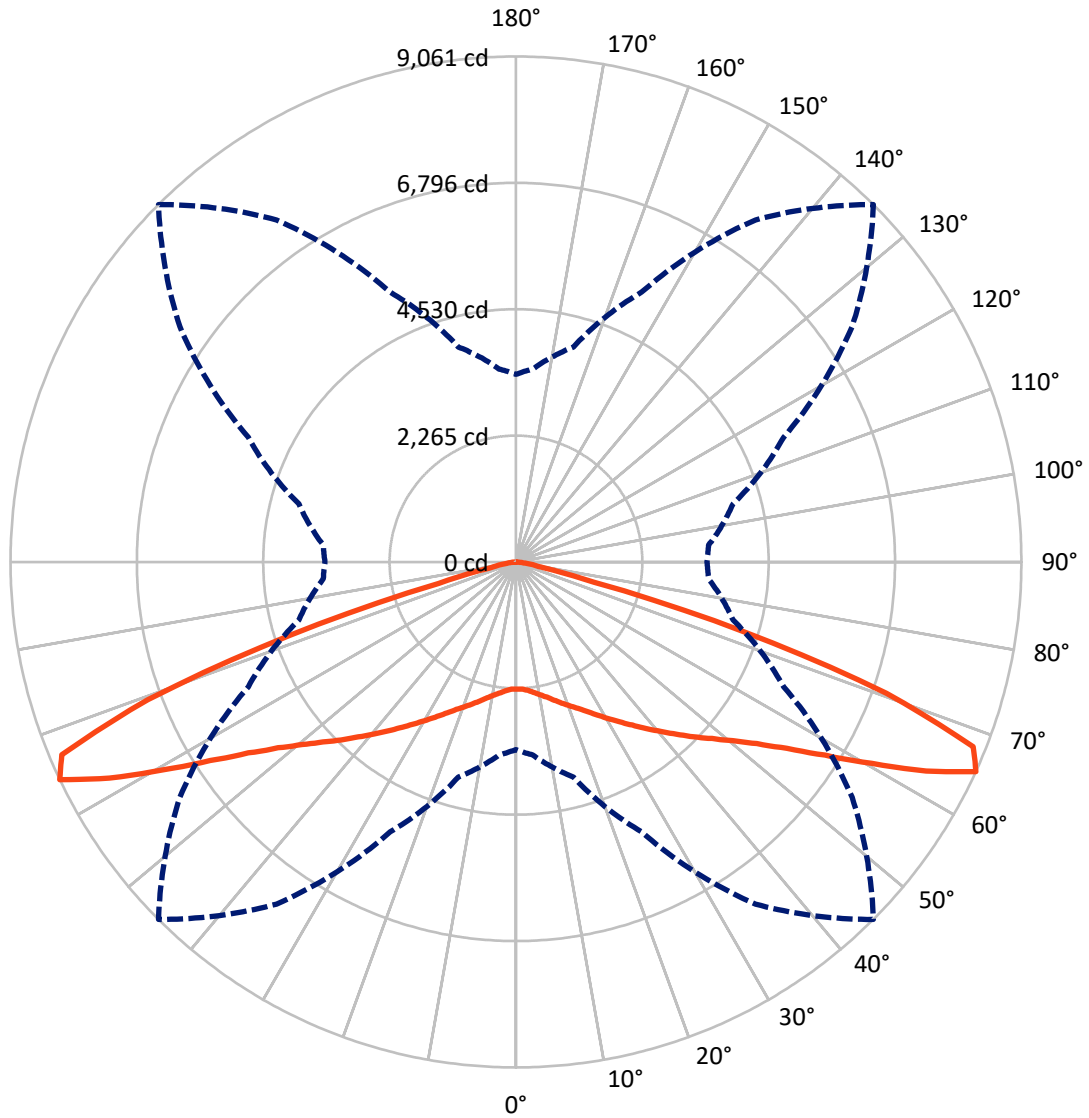
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	9580.5	0.0	9580.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9580.5	0.0	9580.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19161.0	0.0	19161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	1.2
10°-20°	734.4	3.8
20°-30°	1386.5	7.2
30°-40°	2270.4	11.8
40°-50°	3520.3	18.4
50°-60°	5200.2	27.1
60°-70°	4950.1	25.8
70°-80°	798.8	4.2
80°-90°	75.3	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°	19161.0	100.0
0°-180°	19161.0	100.0

Coefficient of Utilization



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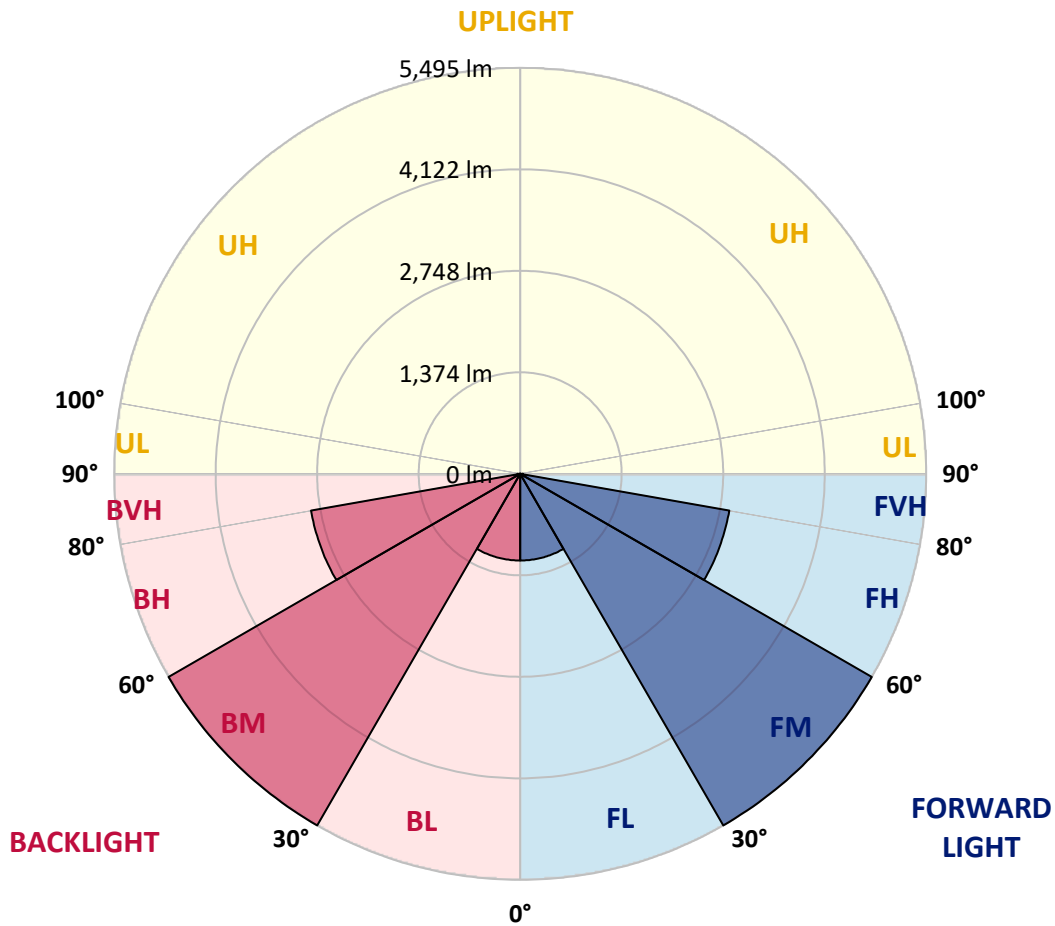
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.0	6.1			
FM (30°-60°)	5495.4	28.7			
FH (60°-80°)	2874.4	15.0			G2/5000
FVH (80°-90°)	37.7	0.2			G1/100
BL (0°-30°)	1173.0	6.1	B3/2500		
BM (30°-60°)	5495.4	28.7	B4/8500		
BH (60°-80°)	2874.4	15.0	B4/5000		G2/5000
BVH (80°-90°)	37.7	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°	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2295.7	2288.0	2293.8	2289.0	2285.2	2281.3	2283.2	2290.0	2292.8	2293.8
5°	2326.5	2319.8	2322.7	2322.7	2315.9	2314.0	2315.0	2319.8	2325.5	2325.5
7.5°	2376.5	2369.8	2376.5	2372.6	2366.9	2365.0	2364.0	2367.8	2376.5	2376.5
10°	2437.1	2429.4	2433.2	2431.3	2424.6	2421.7	2420.7	2426.5	2434.2	2433.2
12.5°	2503.4	2494.7	2499.5	2493.8	2491.9	2489.0	2489.0	2488.0	2492.8	2489.0
15°	2577.4	2571.6	2573.6	2569.7	2572.6	2570.7	2563.0	2559.1	2561.1	2555.3
17.5°	2664.9	2651.4	2658.2	2656.2	2656.2	2660.1	2647.6	2642.8	2646.6	2640.9
20°	2765.8	2752.4	2755.3	2751.4	2746.6	2750.5	2735.1	2738.9	2741.8	2738.0
22.5°	2876.4	2859.1	2858.1	2860.1	2849.5	2850.4	2839.9	2849.5	2855.2	2844.7
25°	2989.8	2971.6	2984.1	2979.3	2965.8	2968.7	2961.0	2970.6	2975.4	2962.0
27.5°	3110.0	3097.5	3109.0	3111.9	3095.6	3107.1	3095.6	3104.2	3109.0	3088.9
30°	3250.4	3237.9	3248.4	3256.1	3236.9	3255.2	3245.6	3251.3	3252.3	3228.3
32.5°	3403.2	3384.0	3410.9	3414.8	3393.6	3415.7	3403.2	3410.9	3415.7	3383.0
35°	3589.7	3565.7	3596.5	3591.6	3573.4	3591.6	3580.1	3591.6	3603.2	3563.8
37.5°	3790.7	3765.7	3798.3	3789.7	3772.4	3784.9	3778.2	3785.8	3804.1	3761.8
40°	4011.8	3981.0	4025.2	4009.8	3993.5	3991.6	3995.4	4000.2	4024.3	3977.2
42.5°	4248.3	4215.6	4281.9	4257.9	4234.8	4219.4	4231.9	4241.5	4264.6	4211.7
45°	4518.4	4480.9	4567.4	4538.6	4502.1	4470.3	4490.5	4504.9	4538.6	4475.1
47.5°	4816.4	4774.1	4866.4	4857.8	4798.2	4728.9	4775.1	4816.4	4841.4	4764.5
50°	5107.7	5075.0	5196.2	5206.7	5133.7	5036.6	5101.0	5163.5	5170.2	5069.3
52.5°	5380.7	5348.1	5524.0	5590.3	5524.9	5409.6	5477.8	5541.3	5490.3	5359.6
55°	5599.0	5572.1	5796.1	5967.2	5989.3	5894.1	5934.5	5932.6	5765.3	5564.4
57.5°	5651.8	5648.0	5930.6	6293.1	6523.8	6535.3	6455.5	6251.7	5891.2	5621.1
60°	5411.5	5435.5	5823.9	6463.2	7078.5	7334.2	6989.1	6407.5	5748.0	5373.1
62.5°	4692.4	4755.9	5224.0	6255.6	7526.5	8253.3	7416.9	6171.0	5159.6	4670.3
65°	3362.8	3473.4	3990.6	5338.4	7486.1	9060.8	7355.4	5295.2	4029.1	3464.7
67.5°	1525.7	1638.2	2077.5	3655.1	6507.5	8841.6	6492.1	3693.6	2181.3	1643.9
70°	552.8	572.0	713.3	1463.2	4158.9	7044.9	4336.7	1473.8	758.5	609.5
72.5°	334.6	337.4	367.2	523.9	1444.9	4277.1	1506.5	541.2	374.9	332.6
75°	212.5	210.5	261.5	320.1	512.4	1443.0	537.4	320.1	260.5	237.5
77.5°	152.9	157.7	187.5	239.4	323.0	489.3	317.2	228.8	187.5	153.8
80°	114.4	117.3	136.5	186.5	226.9	304.8	201.9	169.2	141.3	96.1
82.5°	82.7	82.7	89.4	135.6	138.4	164.4	109.6	119.2	93.3	68.3
85°	49.0	48.1	55.8	80.8	72.1	60.6	50.0	73.1	58.6	42.3
87.5°	17.3	18.3	17.3	23.1	19.2	16.3	15.4	20.2	16.3	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2280.4
2293.8
2325.5
2373.6
2431.3
2490.9
2556.3
2645.7
2746.6
2855.2
2977.3
3104.2
3242.7
3405.1
3587.8
3787.8
3992.5
4239.6
4507.8
4790.5
5081.8
5363.4
5571.1
5603.8
5328.8
4641.5
3423.4
1619.9
601.8
338.4
239.4
156.7
99.0
68.3
41.3
13.5
0.0

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