

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: P950711

Luminaire Tested: **GALN-SB5A-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950711
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-SB5A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 21336 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

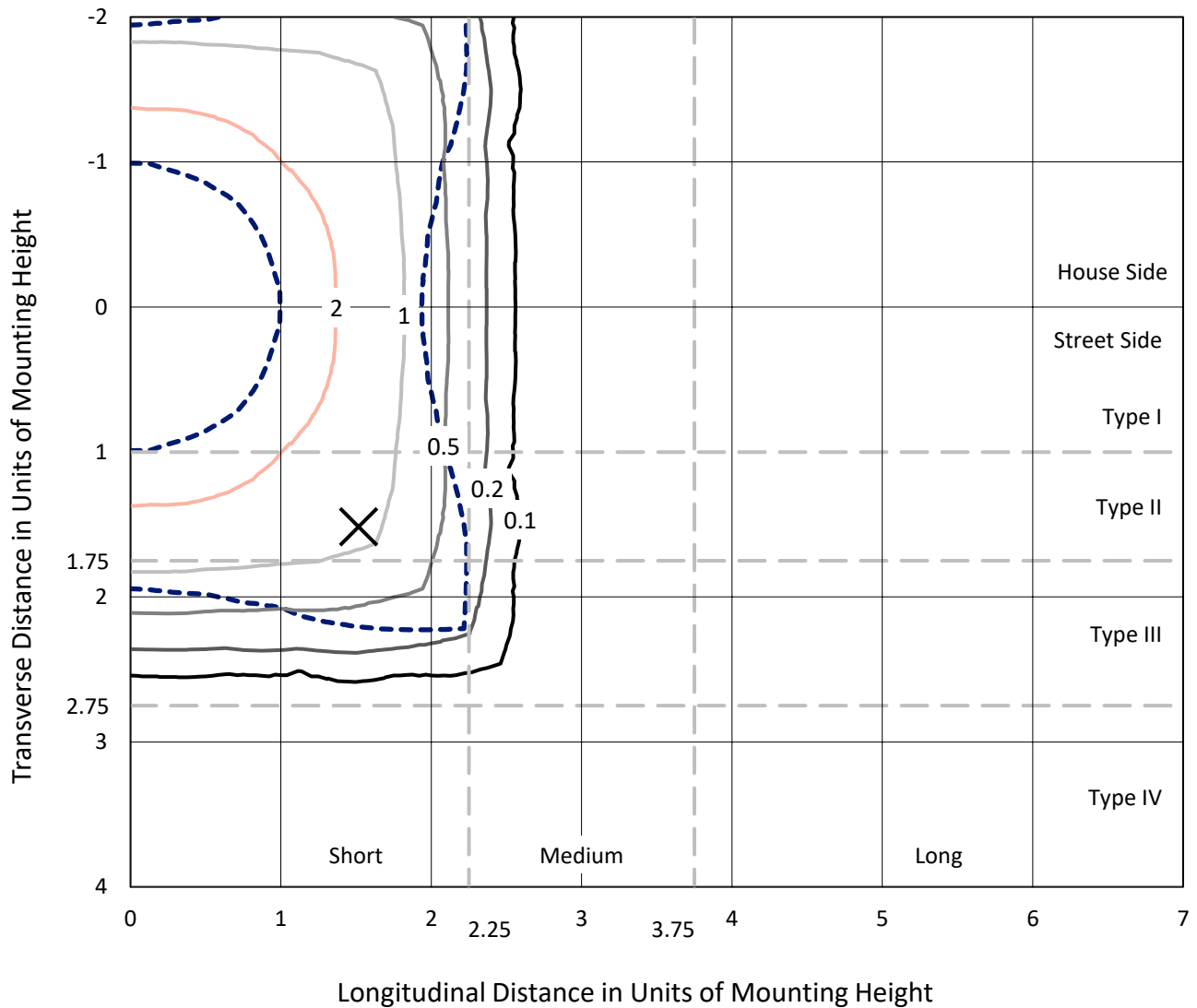
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

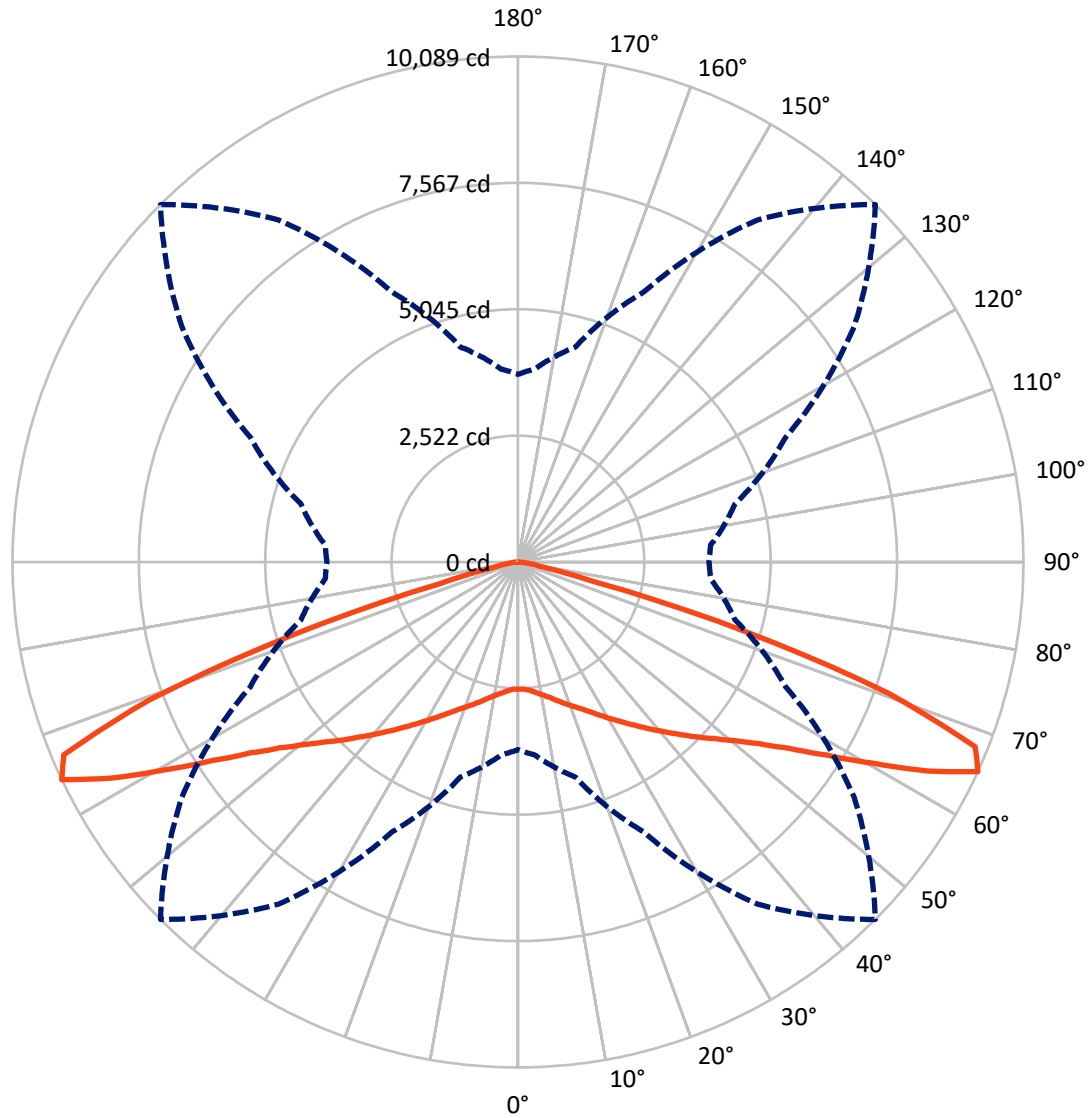
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10668.0	0.0	10668.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10668.0	0.0	10668.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21336.0	0.0	21336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	1.2
10°-20°	817.7	3.8
20°-30°	1543.9	7.2
30°-40°	2528.1	11.8
40°-50°	3919.9	18.4
50°-60°	5790.5	27.1
60°-70°	5512.0	25.8
70°-80°	889.4	4.2
80°-90°	83.8	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°	21336.0	100.0
0°-180°	21336.0	100.0

Coefficient of Utilization



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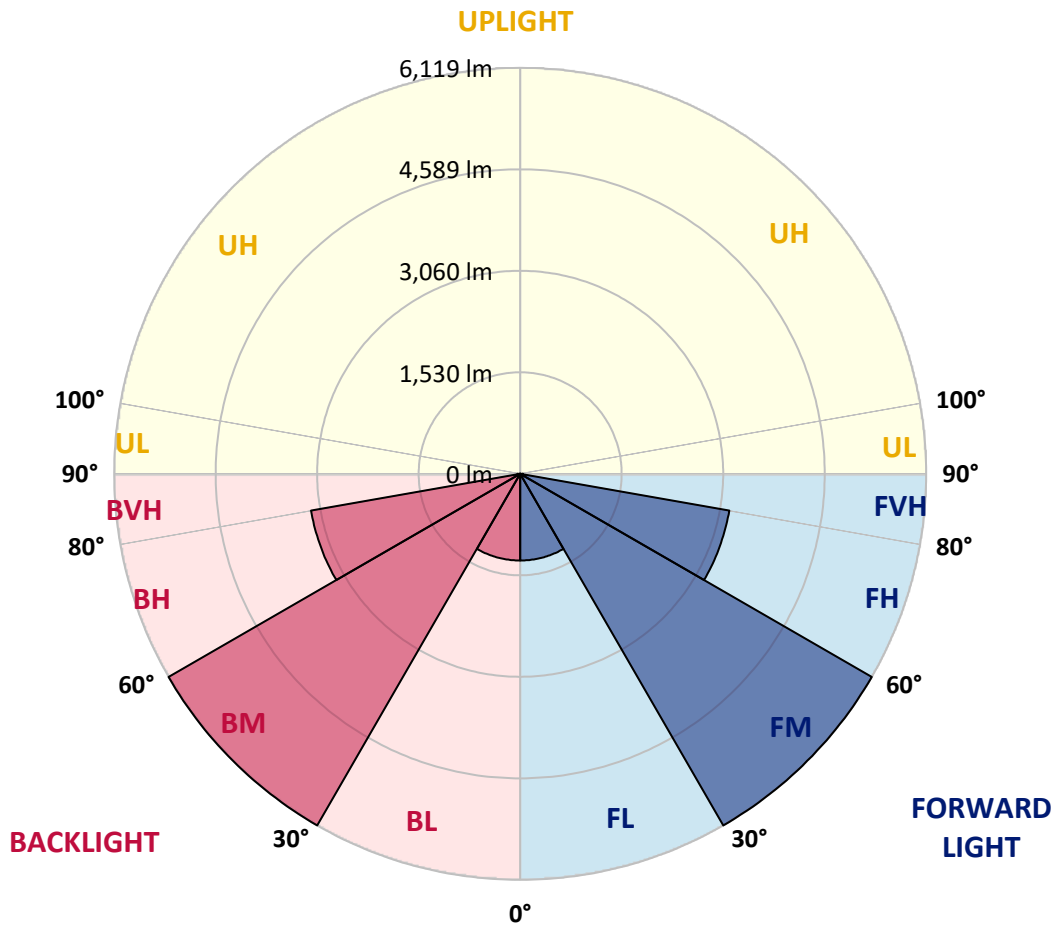
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.1	6.1			
FM (30°-60°)	6119.2	28.7			
FH (60°-80°)	3200.7	15.0			G2/5000
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1306.1	6.1	B3/2500		
BM (30°-60°)	6119.2	28.7	B4/8500		
BH (60°-80°)	3200.7	15.0	B4/5000		G2/5000
BVH (80°-90°)	41.9	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°	2539.2	2539.2	2539.2	2539.2	2539.2	2539.2	2539.2	2539.2	2539.2	2539.2
2.5°	2556.3	2547.8	2554.2	2548.8	2544.5	2540.3	2542.4	2549.9	2553.1	2554.2
5°	2590.6	2583.1	2586.3	2586.3	2578.8	2576.7	2577.7	2583.1	2589.5	2589.5
7.5°	2646.2	2638.8	2646.2	2642.0	2635.5	2633.4	2632.3	2636.6	2646.2	2646.2
10°	2713.7	2705.1	2709.4	2707.3	2699.8	2696.6	2695.5	2701.9	2710.5	2709.4
12.5°	2787.6	2777.9	2783.3	2776.8	2774.7	2771.5	2771.5	2770.4	2775.8	2771.5
15°	2870.0	2863.6	2865.7	2861.4	2864.6	2862.5	2853.9	2849.6	2851.8	2845.4
17.5°	2967.4	2952.4	2959.9	2957.8	2957.8	2962.0	2948.1	2942.8	2947.1	2940.6
20°	3079.8	3064.8	3068.0	3063.7	3058.4	3062.7	3045.5	3049.8	3053.0	3048.7
22.5°	3202.9	3183.6	3182.6	3184.7	3172.9	3174.0	3162.2	3172.9	3179.3	3167.6
25°	3329.2	3308.9	3322.8	3317.4	3302.5	3305.7	3297.1	3307.8	3313.2	3298.2
27.5°	3463.0	3449.1	3462.0	3465.2	3447.0	3459.8	3447.0	3456.6	3462.0	3439.5
30°	3619.3	3605.4	3617.2	3625.7	3604.3	3624.7	3614.0	3620.4	3621.5	3594.7
32.5°	3789.5	3768.1	3798.1	3802.4	3778.8	3803.4	3789.5	3798.1	3803.4	3767.0
35°	3997.2	3970.4	4004.7	3999.3	3979.0	3999.3	3986.5	3999.3	4012.2	3968.3
37.5°	4220.9	4193.1	4229.5	4219.9	4200.6	4214.5	4207.0	4215.6	4235.9	4188.8
40°	4467.1	4432.9	4482.1	4465.0	4446.8	4444.7	4448.9	4454.3	4481.1	4428.6
42.5°	4730.5	4694.1	4768.0	4741.2	4715.5	4698.4	4712.3	4723.0	4748.7	4689.8
45°	5031.3	4989.5	5085.9	5053.8	5013.1	4977.8	5000.2	5016.3	5053.8	4983.1
47.5°	5363.1	5316.0	5418.8	5409.2	5342.8	5265.7	5317.1	5363.1	5391.0	5305.3
50°	5687.5	5651.1	5786.0	5797.8	5716.4	5608.3	5680.0	5749.6	5757.1	5644.7
52.5°	5991.5	5955.1	6151.0	6224.9	6152.1	6023.6	6099.6	6170.3	6113.6	5968.0
55°	6234.5	6204.5	6454.0	6644.5	6669.1	6563.2	6608.1	6606.0	6419.7	6196.0
57.5°	6293.4	6289.1	6603.8	7007.4	7264.3	7277.2	7188.3	6961.4	6560.0	6259.1
60°	6025.8	6052.5	6485.0	7196.9	7882.0	8166.8	7782.4	7134.8	6400.4	5983.0
62.5°	5225.1	5295.7	5817.0	6965.7	8380.9	9190.1	8258.8	6871.5	5745.3	5200.4
65°	3744.6	3867.7	4443.6	5944.4	8335.9	10089.3	8190.3	5896.2	4486.4	3858.0
67.5°	1698.9	1824.1	2313.3	4070.0	7246.1	9845.3	7229.0	4112.8	2428.9	1830.5
70°	615.5	636.9	794.3	1629.3	4630.9	7844.5	4829.0	1641.1	844.6	678.7
72.5°	372.5	375.7	408.9	583.4	1608.9	4762.6	1677.5	602.7	417.5	370.4
75°	236.6	234.4	291.2	356.5	570.6	1606.8	598.4	356.5	290.1	264.4
77.5°	170.2	175.6	208.7	266.6	359.7	544.9	353.3	254.8	208.7	171.3
80°	127.4	130.6	152.0	207.7	252.6	339.3	224.8	188.4	157.4	107.0
82.5°	92.1	92.1	99.6	150.9	154.2	183.1	122.0	132.7	103.8	76.0
85°	54.6	53.5	62.1	89.9	80.3	67.4	55.7	81.4	65.3	47.1
87.5°	19.3	20.3	19.3	25.7	21.4	18.2	17.1	22.5	18.2	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2539.2
2554.2
2589.5
2643.0
2707.3
2773.6
2846.4
2946.0
3058.4
3179.3
3315.3
3456.6
3610.8
3791.7
3995.1
4217.7
4445.7
4720.9
5019.5
5334.2
5658.6
5972.3
6203.5
6239.9
5933.7
5168.3
3812.0
1803.8
670.1
376.8
266.6
174.5
110.3
76.0
46.0
15.0
0.0

OF REPORT)