

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: P950774

Luminaire Tested: **GALN-SB5A-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950774
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-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22712 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

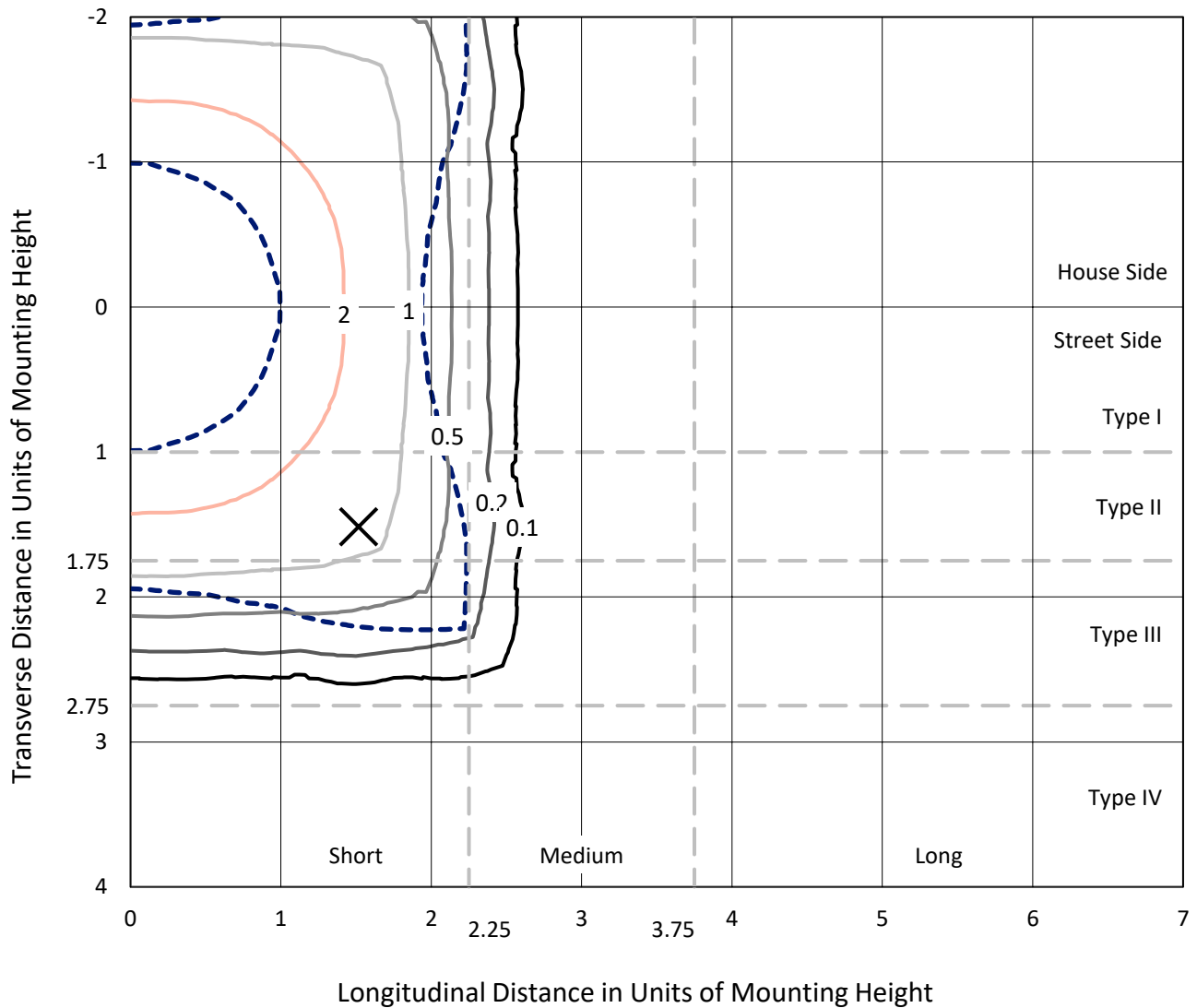
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

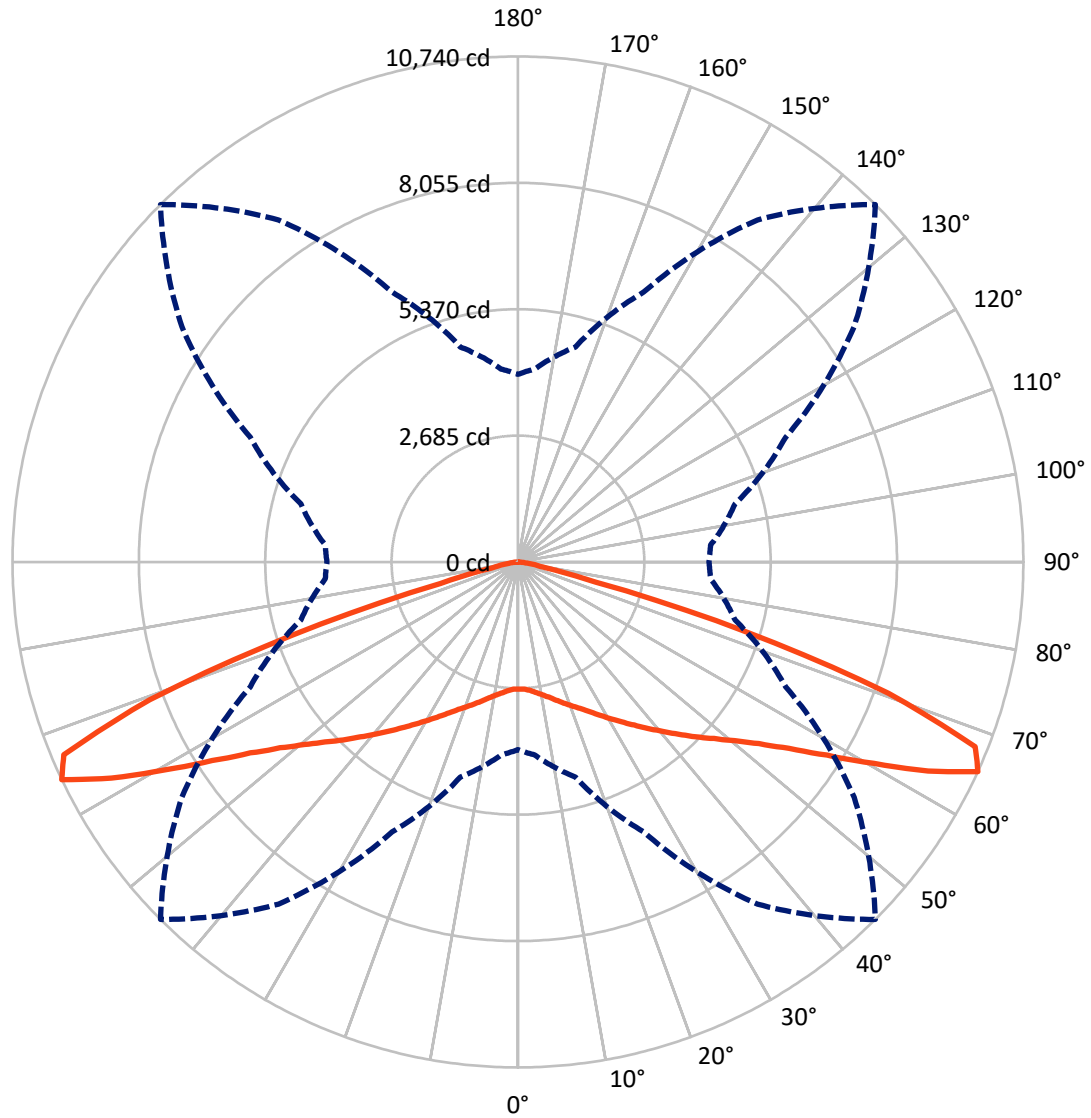
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	11356.0	0.0	11356.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11356.0	0.0	11356.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22712.0	0.0	22712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.2
10°-20°	870.4	3.8
20°-30°	1643.5	7.2
30°-40°	2691.2	11.8
40°-50°	4172.7	18.4
50°-60°	6163.9	27.1
60°-70°	5867.5	25.8
70°-80°	946.8	4.2
80°-90°	89.3	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°	22712.0	100.0
0°-180°	22712.0	100.0

Coefficient of Utilization



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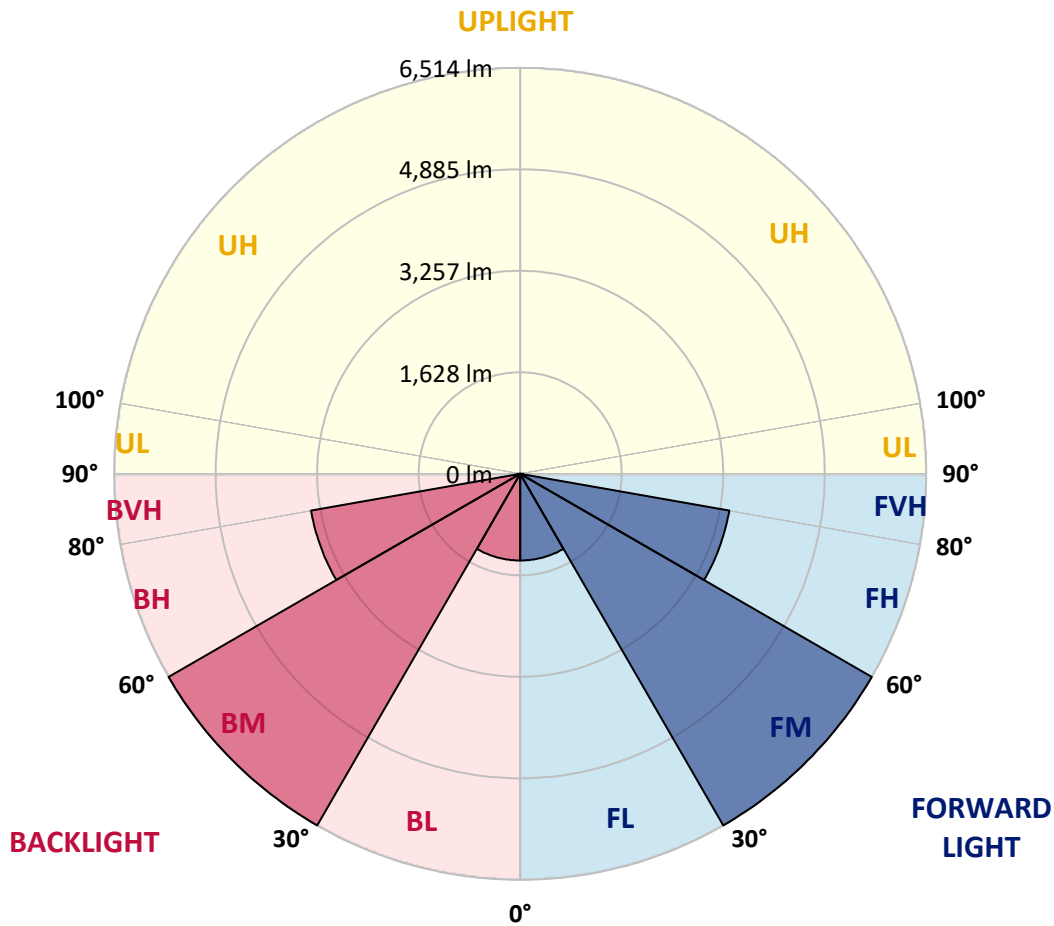
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.3	6.1			
FM (30°-60°)	6513.9	28.7			
FH (60°-80°)	3407.1	15.0			G2/5000
FVH (80°-90°)	44.6	0.2			G1/100
BL (0°-30°)	1390.3	6.1	B3/2500		
BM (30°-60°)	6513.9	28.7	B4/8500		
BH (60°-80°)	3407.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.6	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°	2703.0	2703.0	2703.0	2703.0	2703.0	2703.0	2703.0	2703.0	2703.0	2703.0
2.5°	2721.2	2712.1	2718.9	2713.2	2708.7	2704.1	2706.4	2714.4	2717.8	2718.9
5°	2757.7	2749.7	2753.1	2753.1	2745.1	2742.8	2744.0	2749.7	2756.5	2756.5
7.5°	2816.9	2808.9	2816.9	2812.3	2805.5	2803.2	2802.1	2806.7	2816.9	2816.9
10°	2888.7	2879.6	2884.1	2881.9	2873.9	2870.5	2869.3	2876.2	2885.3	2884.1
12.5°	2967.3	2957.1	2962.8	2955.9	2953.7	2950.2	2950.2	2949.1	2954.8	2950.2
15°	3055.1	3048.2	3050.5	3046.0	3049.4	3047.1	3038.0	3033.4	3035.7	3028.9
17.5°	3158.8	3142.8	3150.8	3148.5	3148.5	3153.1	3138.3	3132.6	3137.1	3130.3
20°	3278.4	3262.5	3265.9	3261.3	3255.6	3260.2	3242.0	3246.5	3249.9	3245.4
22.5°	3409.5	3388.9	3387.8	3390.1	3377.6	3378.7	3366.2	3377.6	3384.4	3371.9
25°	3543.9	3522.3	3537.1	3531.4	3515.4	3518.9	3509.7	3521.1	3526.8	3510.9
27.5°	3686.4	3671.6	3685.2	3688.6	3669.3	3682.9	3669.3	3679.5	3685.2	3661.3
30°	3852.7	3837.9	3850.5	3859.6	3836.8	3858.4	3847.0	3853.9	3855.0	3826.5
32.5°	4033.9	4011.1	4043.0	4047.6	4022.5	4048.7	4033.9	4043.0	4048.7	4010.0
35°	4255.0	4226.5	4263.0	4257.3	4235.6	4257.3	4243.6	4257.3	4270.9	4224.2
37.5°	4493.2	4463.5	4502.3	4492.0	4471.5	4486.3	4478.3	4487.5	4509.1	4459.0
40°	4755.2	4718.8	4771.2	4753.0	4733.6	4731.3	4735.9	4741.6	4770.1	4714.2
42.5°	5035.6	4996.8	5075.4	5047.0	5019.6	5001.4	5016.2	5027.6	5054.9	4992.3
45°	5355.8	5311.3	5413.9	5379.7	5336.4	5298.8	5322.7	5339.8	5379.7	5304.5
47.5°	5709.0	5658.9	5768.3	5758.0	5687.4	5605.3	5660.0	5709.0	5738.7	5647.5
50°	6054.3	6015.6	6159.1	6171.7	6085.1	5970.0	6046.3	6120.4	6128.4	6008.7
52.5°	6377.9	6339.2	6547.7	6626.3	6548.9	6412.1	6493.0	6568.2	6507.8	6352.9
55°	6636.6	6604.7	6870.2	7073.0	7099.2	6986.4	7034.3	7032.0	6833.7	6595.6
57.5°	6699.3	6694.7	7029.7	7459.3	7732.8	7746.5	7651.9	7410.3	6983.0	6662.8
60°	6414.4	6442.9	6903.2	7661.0	8390.3	8693.4	8284.4	7594.9	6813.2	6368.8
62.5°	5562.0	5637.2	6192.2	7414.9	8921.3	9782.8	8791.4	7314.6	6115.8	5535.8
65°	3986.1	4117.1	4730.2	6327.8	8873.5	10740.0	8718.5	6276.5	4775.8	4106.9
67.5°	1808.4	1941.8	2462.5	4332.5	7713.5	10480.2	7695.2	4378.1	2585.6	1948.6
70°	655.2	678.0	845.5	1734.4	4929.6	8350.4	5140.4	1746.9	899.1	722.5
72.5°	396.6	400.0	435.3	621.0	1712.7	5069.8	1785.6	641.6	444.4	394.3
75°	251.8	249.6	310.0	379.5	607.4	1710.4	637.0	379.5	308.8	281.5
77.5°	181.2	186.9	222.2	283.7	382.9	580.0	376.0	271.2	222.2	182.3
80°	135.6	139.0	161.8	221.1	268.9	361.2	239.3	200.6	167.5	114.0
82.5°	98.0	98.0	106.0	160.7	164.1	194.9	129.9	141.3	110.5	80.9
85°	58.1	57.0	66.1	95.7	85.5	71.8	59.3	86.6	69.5	50.1
87.5°	20.5	21.7	20.5	27.3	22.8	19.4	18.2	23.9	19.4	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2703.0
2718.9
2756.5
2813.5
2881.9
2952.5
3030.0
3136.0
3255.6
3384.4
3529.1
3679.5
3843.6
4036.2
4252.7
4489.7
4732.5
5025.3
5343.2
5678.3
6023.5
6357.4
6603.6
6642.3
6316.4
5501.6
4057.9
1920.1
713.3
401.1
283.7
185.7
117.4
80.9
49.0
16.0
0.0

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