

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: P950606

Luminaire Tested: **GALN-SB5A-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950606
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-735-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23745 lumens
Efficiency: N/A
Efficacy: 167.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

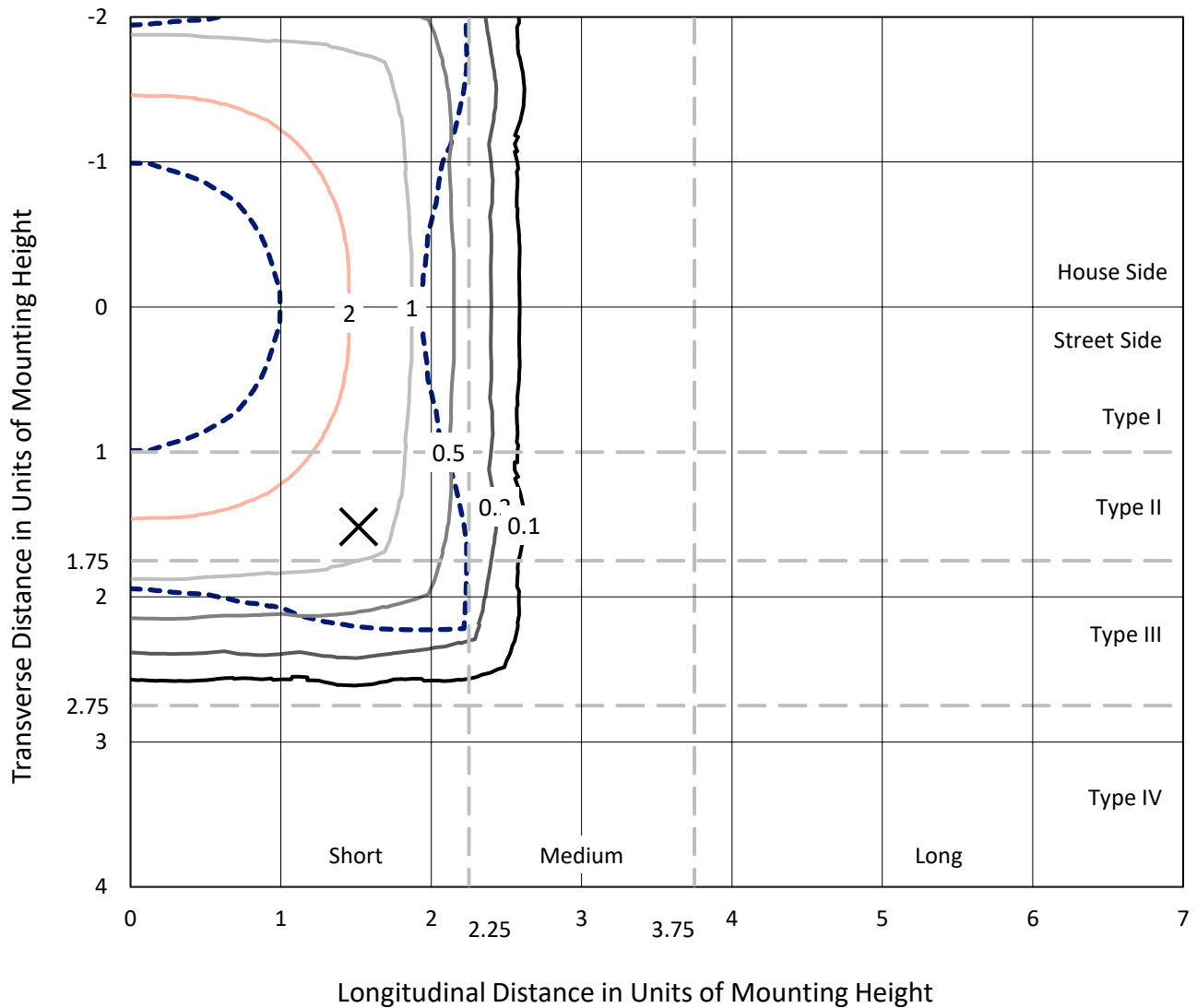
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

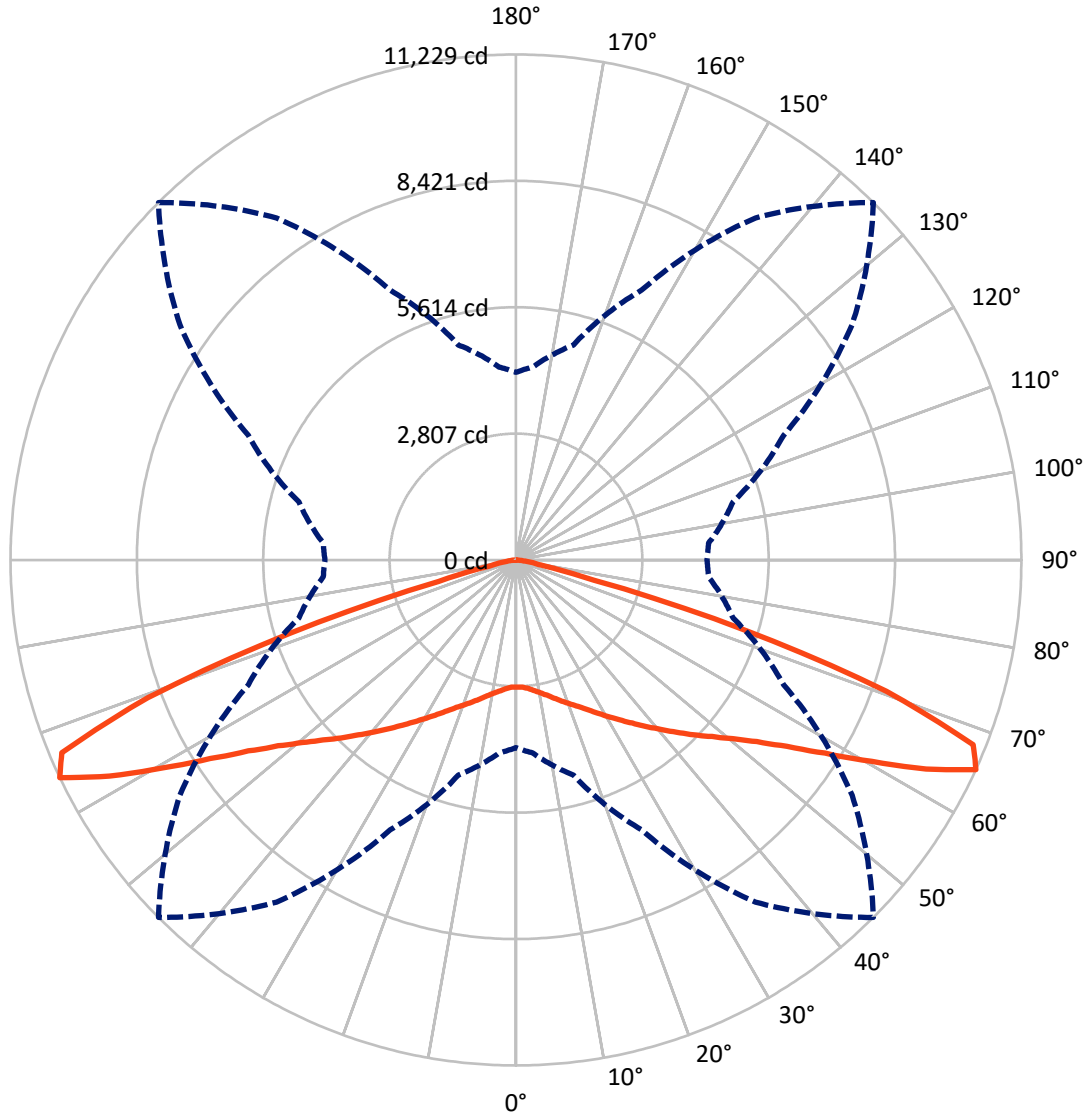
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	11872.5	0.0	11872.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11872.5	0.0	11872.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23745.0	0.0	23745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.2
10°-20°	910.0	3.8
20°-30°	1718.2	7.2
30°-40°	2813.6	11.8
40°-50°	4362.5	18.4
50°-60°	6444.3	27.1
60°-70°	6134.4	25.8
70°-80°	989.9	4.2
80°-90°	93.3	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°	23745.0	100.0
0°-180°	23745.0	100.0



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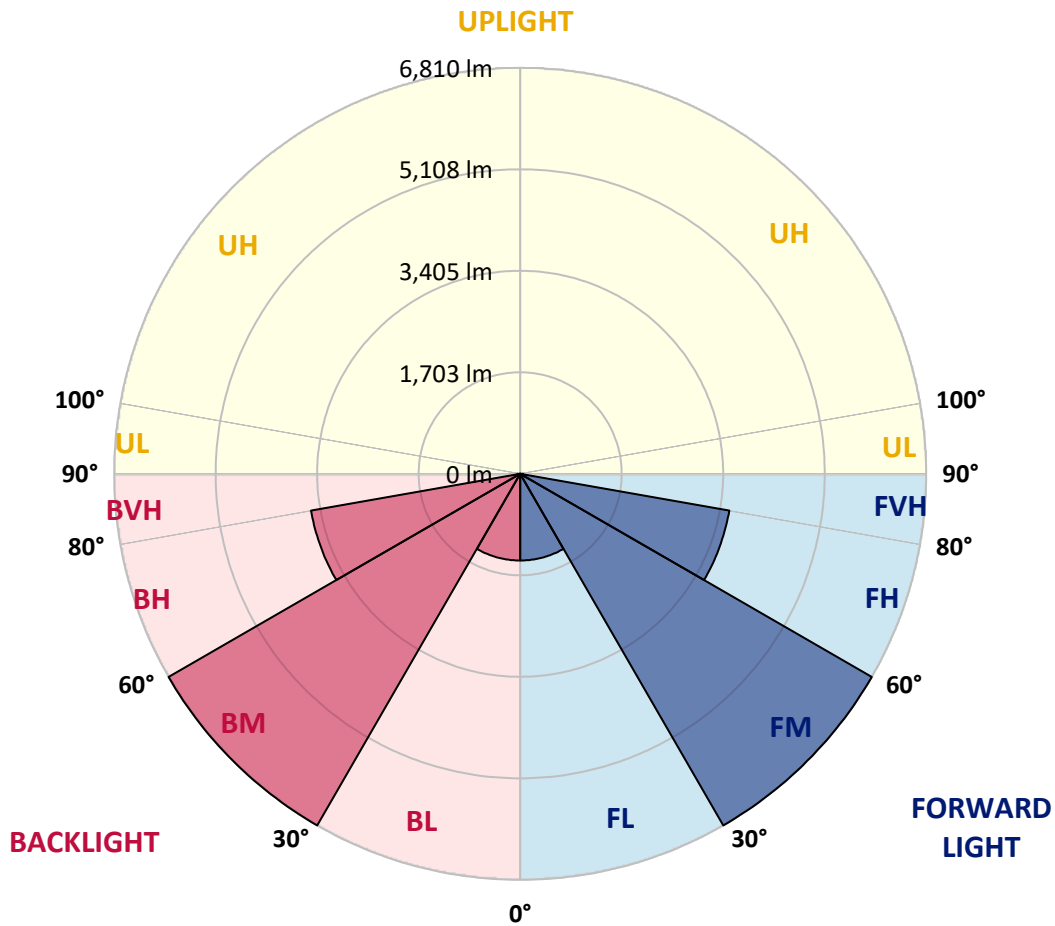
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.6	6.1			
FM (30°-60°)	6810.2	28.7			
FH (60°-80°)	3562.1	15.0			G2/5000
FVH (80°-90°)	46.7	0.2			G1/100
BL (0°-30°)	1453.6	6.1	B3/2500		
BM (30°-60°)	6810.2	28.7	B4/8500		
BH (60°-80°)	3562.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	46.7	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°	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9	2825.9
2.5°	2845.0	2835.4	2842.6	2836.6	2831.8	2827.1	2829.5	2837.8	2841.4	2842.6
5°	2883.1	2874.7	2878.3	2878.3	2870.0	2867.6	2868.8	2874.7	2881.9	2881.9
7.5°	2945.0	2936.7	2945.0	2940.3	2933.1	2930.7	2929.5	2934.3	2945.0	2945.0
10°	3020.1	3010.6	3015.3	3012.9	3004.6	3001.0	2999.8	3007.0	3016.5	3015.3
12.5°	3102.3	3091.6	3097.5	3090.4	3088.0	3084.4	3084.4	3083.2	3089.2	3084.4
15°	3194.0	3186.9	3189.3	3184.5	3188.1	3185.7	3176.2	3171.4	3173.8	3166.6
17.5°	3302.4	3285.8	3294.1	3291.7	3291.7	3296.5	3281.0	3275.0	3279.8	3272.7
20°	3427.5	3410.8	3414.4	3409.7	3403.7	3408.5	3389.4	3394.2	3397.7	3393.0
22.5°	3564.5	3543.1	3541.9	3544.3	3531.2	3532.4	3519.3	3531.2	3538.3	3525.2
25°	3705.1	3682.5	3698.0	3692.0	3675.3	3678.9	3669.4	3681.3	3687.2	3670.6
27.5°	3854.0	3838.5	3852.8	3856.4	3836.2	3850.5	3836.2	3846.9	3852.8	3827.8
30°	4028.0	4012.5	4025.6	4035.1	4011.3	4033.9	4022.0	4029.2	4030.4	4000.6
32.5°	4217.4	4193.6	4226.9	4231.7	4205.5	4232.9	4217.4	4226.9	4232.9	4192.4
35°	4448.5	4418.7	4456.9	4450.9	4428.3	4450.9	4436.6	4450.9	4465.2	4416.4
37.5°	4697.5	4666.5	4707.0	4696.3	4674.9	4690.4	4682.0	4691.6	4714.2	4661.8
40°	4971.5	4933.4	4988.2	4969.1	4948.9	4946.5	4951.3	4957.2	4987.0	4928.6
42.5°	5264.6	5224.1	5306.3	5276.5	5247.9	5228.9	5244.3	5256.3	5284.8	5219.3
45°	5599.4	5552.9	5660.1	5624.4	5579.1	5539.8	5564.8	5582.7	5624.4	5545.8
47.5°	5968.7	5916.3	6030.6	6019.9	5946.0	5860.3	5917.5	5968.7	5999.7	5904.4
50°	6329.7	6289.2	6439.3	6452.4	6361.8	6241.5	6321.3	6398.8	6407.1	6282.0
52.5°	6668.0	6627.5	6845.5	6927.7	6846.7	6703.8	6788.3	6867.0	6803.8	6641.8
55°	6938.4	6905.1	7182.7	7394.7	7422.1	7304.2	7354.2	7351.8	7144.6	6895.6
57.5°	7004.0	6999.2	7349.5	7798.6	8084.5	8098.8	7999.9	7747.4	7300.6	6965.8
60°	6706.1	6735.9	7217.2	8009.5	8771.9	9088.8	8661.1	7940.4	7123.1	6658.5
62.5°	5815.0	5893.6	6473.8	7752.1	9327.1	10227.8	9191.3	7647.3	6394.0	5787.6
65°	4167.4	4304.4	4945.3	6615.6	9277.1	11228.5	9115.1	6562.0	4993.0	4293.6
67.5°	1890.7	2030.1	2574.5	4529.5	8064.3	10956.9	8045.2	4577.2	2703.2	2037.2
70°	685.0	708.9	884.0	1813.2	5153.8	8730.2	5374.2	1826.3	940.0	755.3
72.5°	414.6	418.2	455.1	649.3	1790.6	5300.3	1866.9	670.7	464.6	412.2
75°	263.3	260.9	324.0	396.7	635.0	1788.2	666.0	396.7	322.9	294.3
77.5°	189.4	195.4	232.3	296.6	400.3	606.4	393.1	283.5	232.3	190.6
80°	141.8	145.3	169.2	231.1	281.2	377.7	250.2	209.7	175.1	119.1
82.5°	102.5	102.5	110.8	168.0	171.6	203.7	135.8	147.7	115.6	84.6
85°	60.8	59.6	69.1	100.1	89.4	75.1	62.0	90.5	72.7	52.4
87.5°	21.4	22.6	21.4	28.6	23.8	20.3	19.1	25.0	20.3	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2825.9
2842.6
2881.9
2941.5
3012.9
3086.8
3167.8
3278.6
3403.7
3538.3
3689.6
3846.9
4018.4
4219.8
4446.1
4693.9
4947.7
5253.9
5586.3
5936.5
6297.5
6646.6
6903.9
6944.4
6603.7
5751.9
4242.4
2007.4
745.8
419.4
296.6
194.2
122.7
84.6
51.2
16.7
0.0

OF REPORT)