

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: P949660

Luminaire Tested: **GALN-SB4B-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21922 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

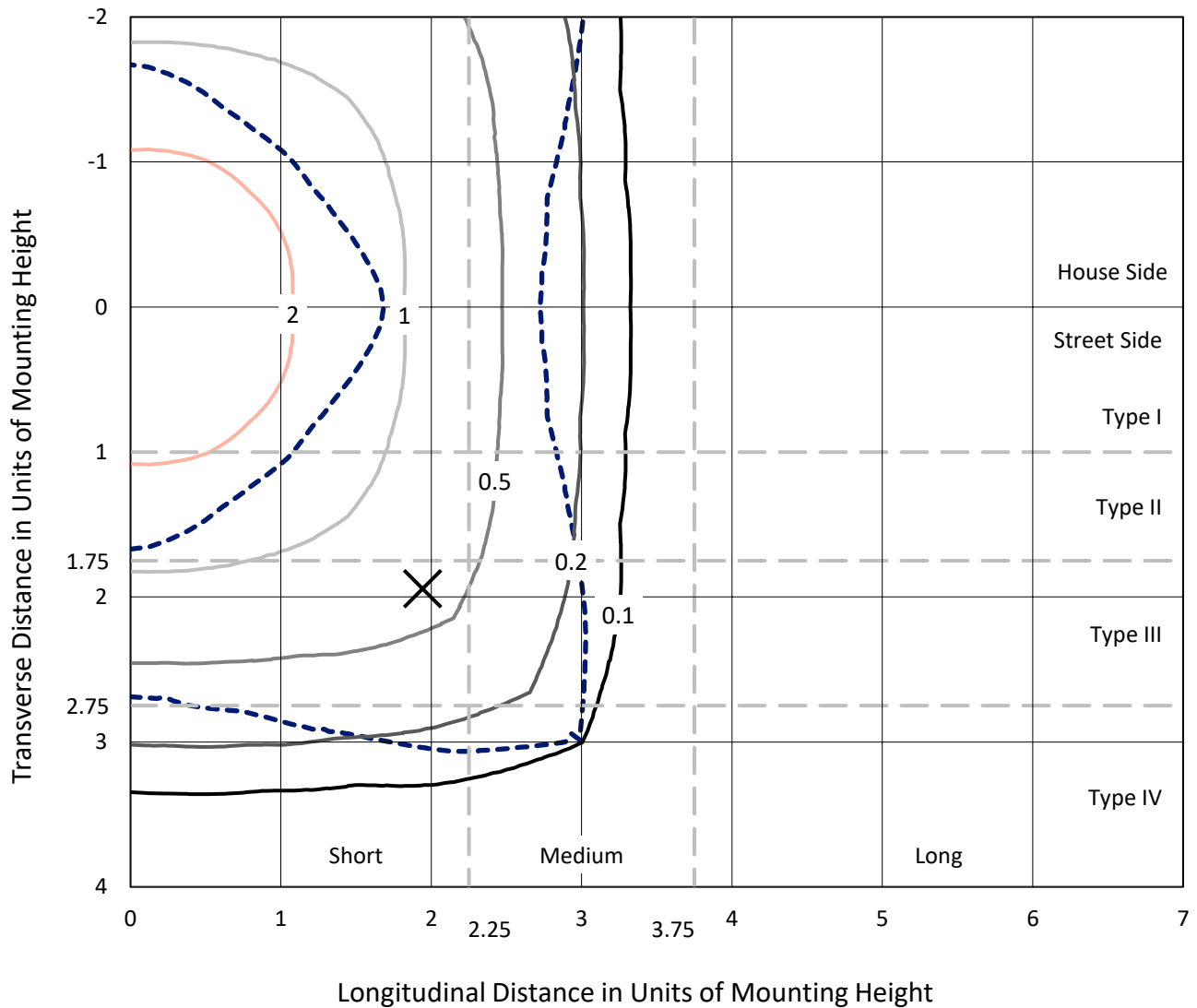
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

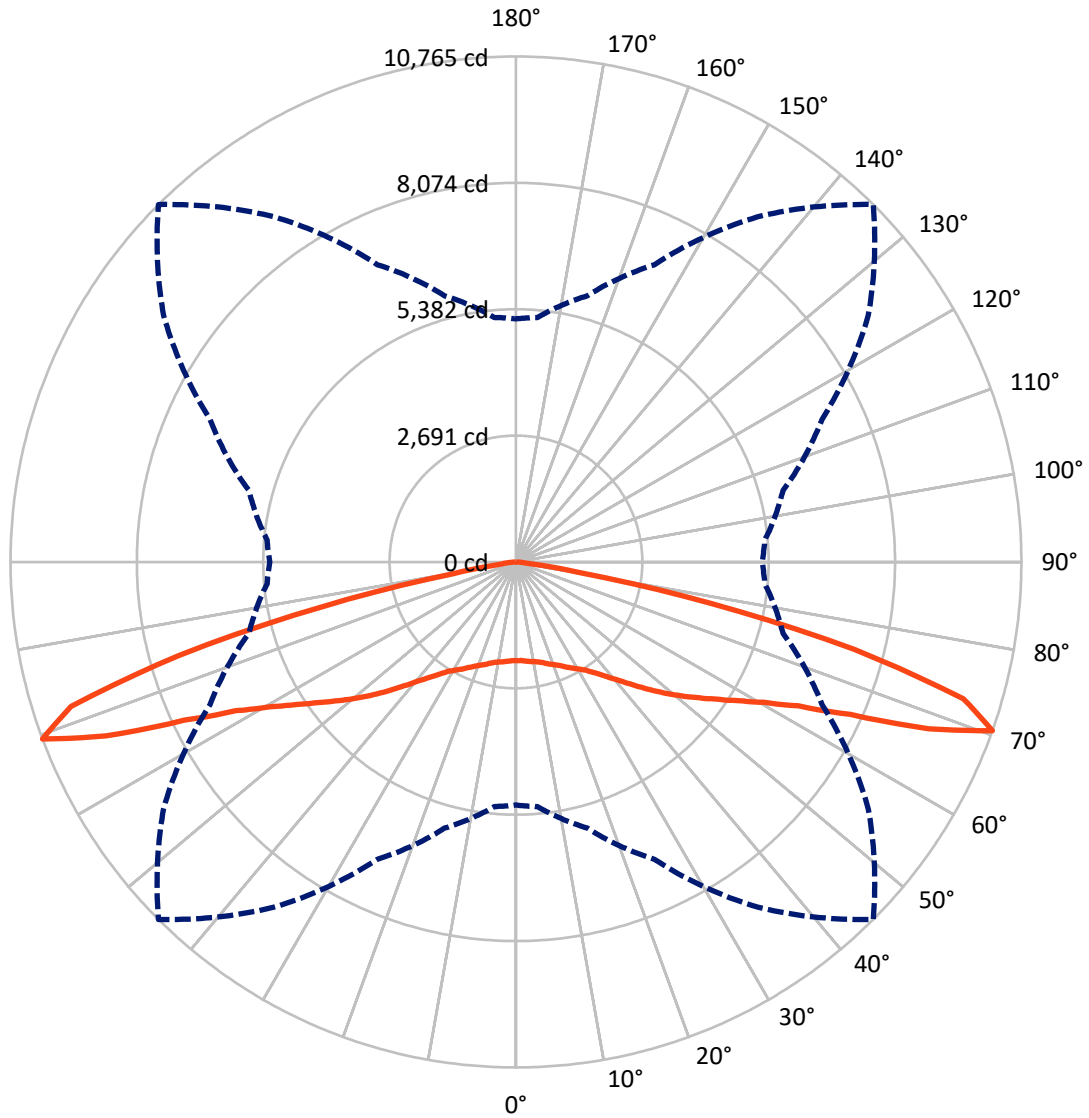
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
House Side	Lumens	10961.0	0.0	10961.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10961.0	0.0	10961.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21922.0	0.0	21922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	0.9
10°-20°	632.6	2.9
20°-30°	1130.5	5.2
30°-40°	1832.6	8.4
40°-50°	2985.0	13.6
50°-60°	4551.0	20.8
60°-70°	6770.5	30.9
70°-80°	3690.1	16.8
80°-90°	125.7	0.6
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°	21922.0	100.0
0°-180°	21922.0	100.0

Coefficient of Utilization



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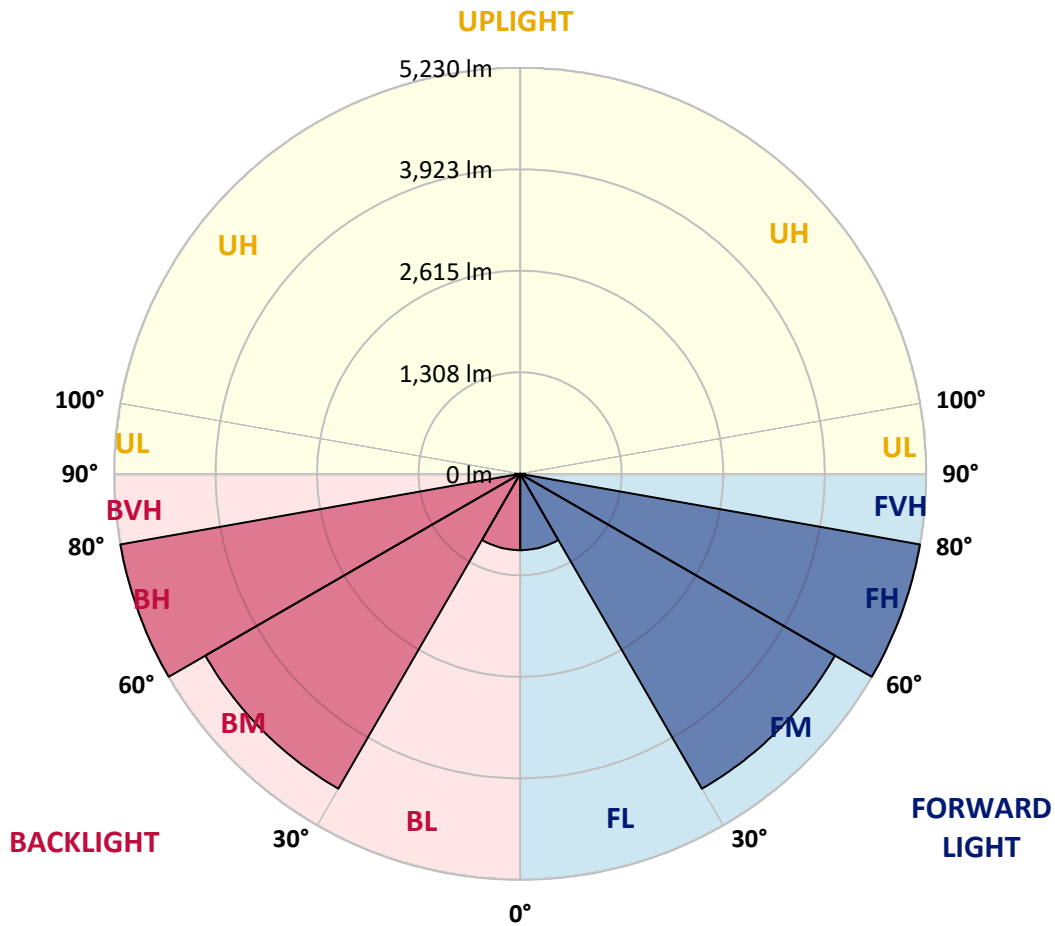
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.6	4.5			
FM (30°-60°)	4684.3	21.4			
FH (60°-80°)	5230.3	23.9			G3/7500
FVH (80°-90°)	62.8	0.3			G1/100
BL (0°-30°)	983.6	4.5	B2/1000		
BM (30°-60°)	4684.3	21.4	B3/5000		
BH (60°-80°)	5230.3	23.9	B5		G3/7500
BVH (80°-90°)	62.8	0.3			G1/100
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°	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9
2.5°	2109.8	2112.0	2107.6	2105.4	2103.2	2099.9	2101.0	2106.5	2110.9	2109.8
5°	2127.4	2129.6	2126.3	2125.2	2120.8	2119.7	2119.7	2125.2	2128.5	2126.3
7.5°	2147.2	2150.5	2145.0	2143.9	2141.7	2139.5	2138.4	2143.9	2147.2	2147.2
10°	2165.9	2169.2	2164.8	2161.5	2159.3	2159.3	2157.1	2161.5	2167.0	2165.9
12.5°	2185.7	2187.9	2183.5	2181.3	2181.3	2184.6	2181.3	2183.5	2187.9	2185.7
15°	2210.0	2211.1	2210.0	2213.3	2218.8	2229.8	2219.9	2217.7	2219.9	2214.4
17.5°	2243.0	2245.2	2249.6	2257.3	2265.0	2284.8	2267.2	2261.7	2261.7	2250.7
20°	2283.7	2287.0	2293.6	2306.8	2316.7	2335.4	2317.8	2310.1	2306.8	2292.5
22.5°	2326.6	2332.1	2342.0	2359.6	2377.2	2394.9	2377.2	2364.0	2354.1	2335.4
25°	2376.1	2382.7	2398.2	2426.8	2451.0	2476.3	2455.4	2429.0	2409.2	2382.7
27.5°	2446.6	2454.3	2473.0	2508.2	2539.0	2561.0	2541.2	2507.1	2479.6	2447.7
30°	2545.6	2553.3	2575.3	2612.8	2633.7	2648.0	2634.8	2608.4	2575.3	2539.0
32.5°	2673.3	2683.2	2707.4	2742.6	2747.0	2749.2	2744.8	2731.6	2707.4	2663.4
35°	2835.1	2846.1	2873.6	2902.2	2897.8	2902.2	2895.6	2891.2	2873.6	2823.0
37.5°	3033.2	3046.4	3075.0	3097.0	3086.0	3080.5	3081.6	3082.7	3072.8	3016.7
40°	3263.2	3280.8	3301.7	3324.8	3306.1	3289.6	3300.6	3309.4	3300.6	3243.4
42.5°	3499.8	3525.1	3547.2	3580.2	3564.8	3543.9	3559.3	3569.2	3550.5	3488.8
45°	3762.9	3787.1	3815.7	3865.2	3854.2	3832.2	3854.2	3856.4	3824.5	3751.9
47.5°	4034.7	4060.0	4103.0	4169.0	4164.6	4140.4	4169.0	4153.6	4112.9	4025.9
50°	4292.2	4327.5	4393.5	4486.0	4494.8	4465.0	4503.6	4473.8	4405.6	4296.7
52.5°	4534.4	4571.8	4676.4	4801.8	4833.7	4795.2	4846.9	4795.2	4692.9	4553.1
55°	4788.6	4830.4	4954.8	5118.8	5182.6	5154.0	5202.4	5124.3	4979.0	4809.5
57.5°	5088.0	5113.3	5261.9	5456.7	5564.5	5571.1	5593.1	5461.1	5285.0	5092.4
60°	5412.6	5447.9	5609.6	5843.0	6013.6	6068.6	6045.5	5849.6	5644.9	5423.6
62.5°	5828.7	5867.2	6060.9	6340.4	6610.1	6746.5	6656.3	6372.3	6119.2	5854.0
65°	6173.1	6216.1	6566.0	7064.6	7555.5	7829.5	7602.8	7080.0	6624.4	6250.2
67.5°	5923.3	5976.1	6525.3	7441.0	8661.5	9479.3	8703.4	7553.3	6660.7	6153.3
70°	5177.1	5226.6	5867.2	6986.5	8973.0	10764.7	9160.1	7192.3	5888.1	5320.2
72.5°	3437.1	3596.7	4244.9	5587.6	8012.2	9961.3	8091.4	5474.3	3937.9	3429.4
75°	1140.2	1267.9	1710.3	2896.7	5366.4	7449.8	5108.9	2563.2	1354.8	975.1
77.5°	287.3	331.3	456.7	828.7	2140.6	4241.6	1927.1	676.9	368.7	257.5
80°	139.8	154.1	220.1	276.2	536.0	1348.2	503.0	259.7	173.9	134.3
82.5°	77.0	78.1	124.4	156.3	199.2	348.9	206.9	151.9	100.2	81.4
85°	47.3	46.2	66.0	83.6	83.6	124.4	99.1	83.6	57.2	50.6
87.5°	18.7	18.7	24.2	26.4	23.1	31.9	25.3	27.5	22.0	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2099.9
2110.9
2127.4
2147.2
2165.9
2184.6
2214.4
2250.7
2292.5
2334.3
2381.6
2446.6
2539.0
2664.5
2823.0
3016.7
3243.4
3493.2
3759.6
4020.4
4294.5
4539.9
4786.4
5066.0
5388.4
5807.7
6188.5
6077.4
5244.2
3318.2
922.3
230.0
123.3
81.4
52.8
22.0
0.0

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