

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: P940950

Luminaire Tested: **GALN-SB4B-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22828 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

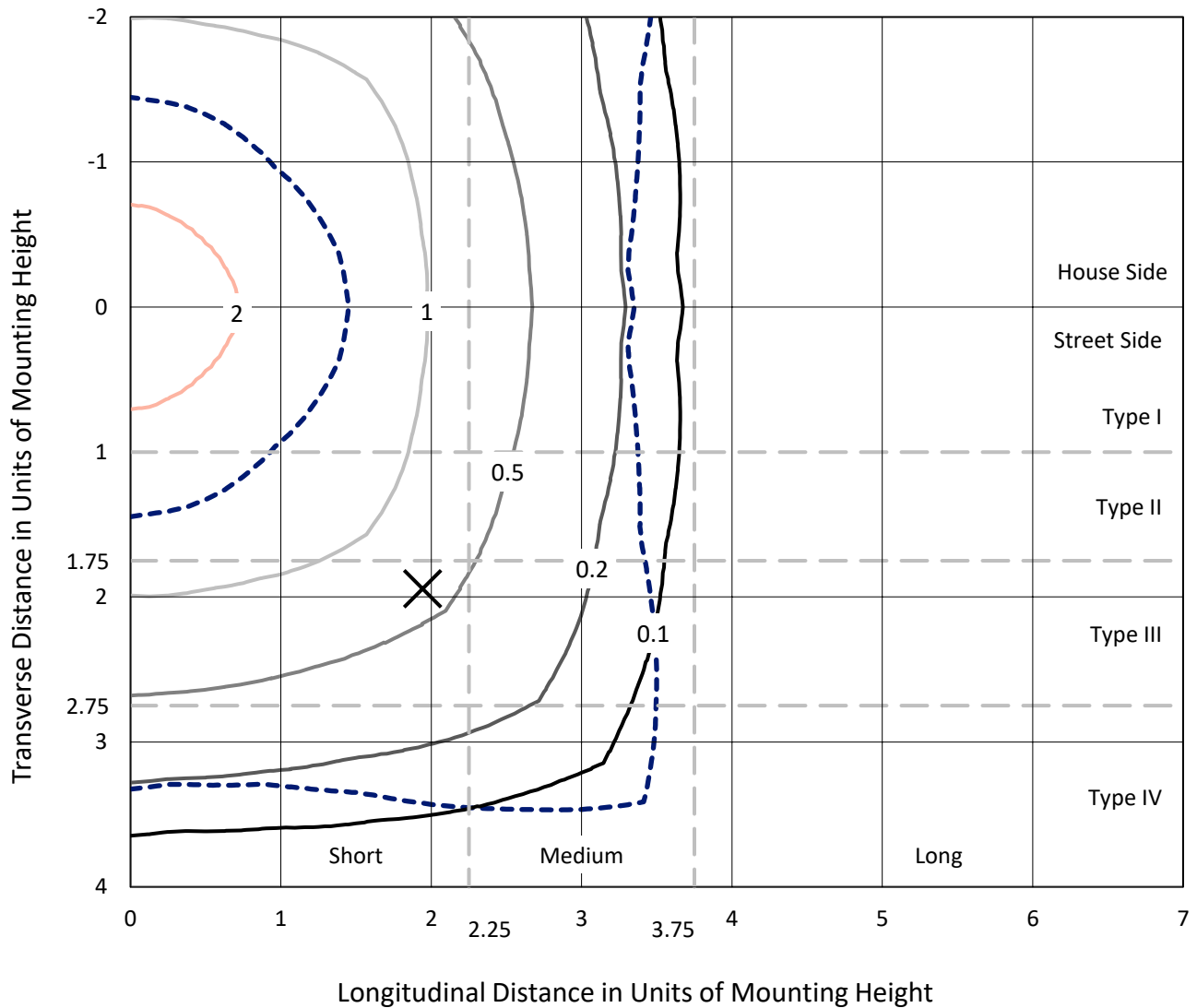
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

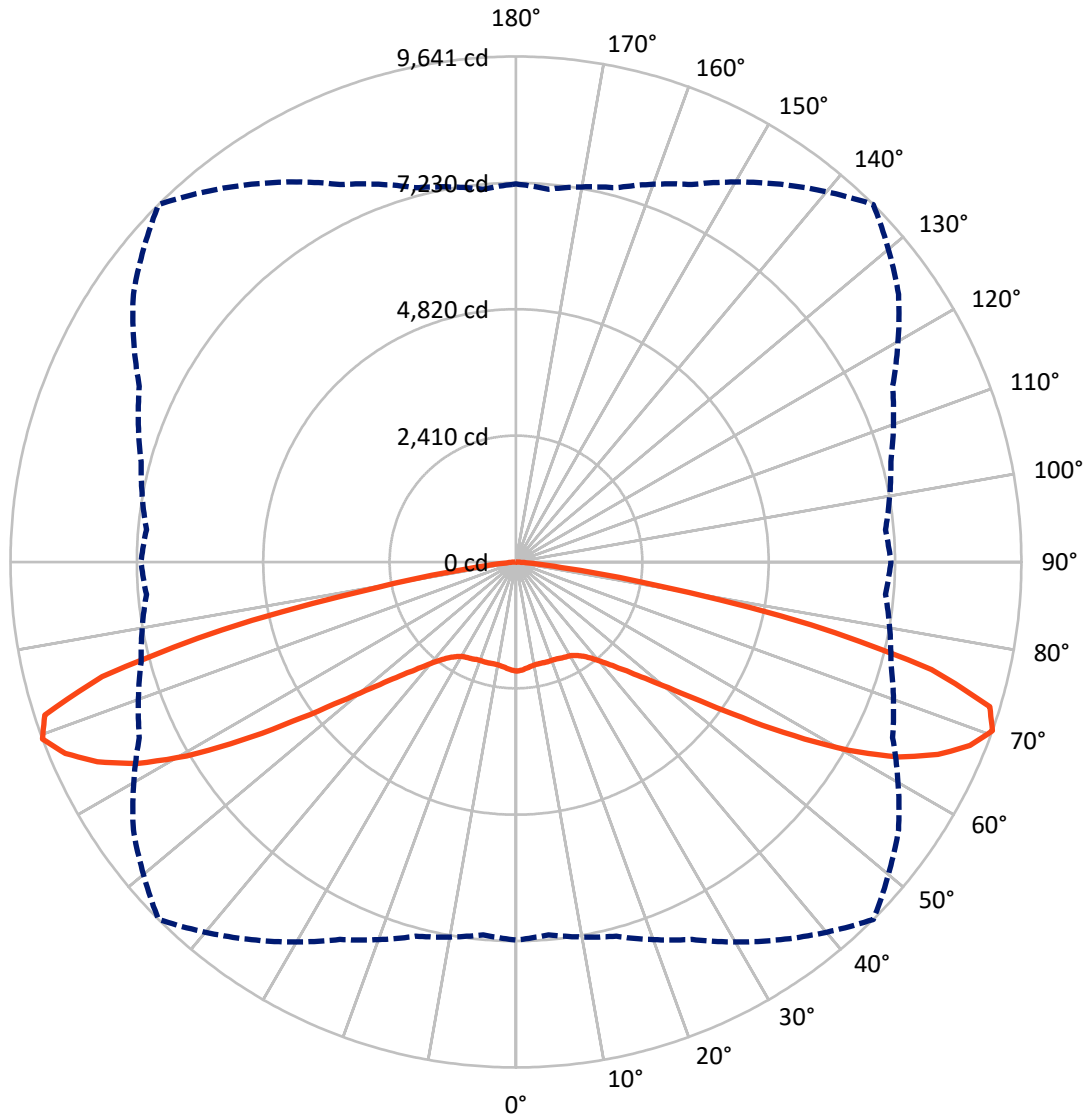
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	11414.0	0.0	11414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11414.0	0.0	11414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22828.0	0.0	22828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	0.8
10°-20°	568.8	2.5
20°-30°	946.5	4.1
30°-40°	1431.4	6.3
40°-50°	2378.7	10.4
50°-60°	4488.6	19.7
60°-70°	7579.1	33.2
70°-80°	4980.3	21.8
80°-90°	260.9	1.1
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°	22828.0	100.0
0°-180°	22828.0	100.0

Coefficient of Utilization



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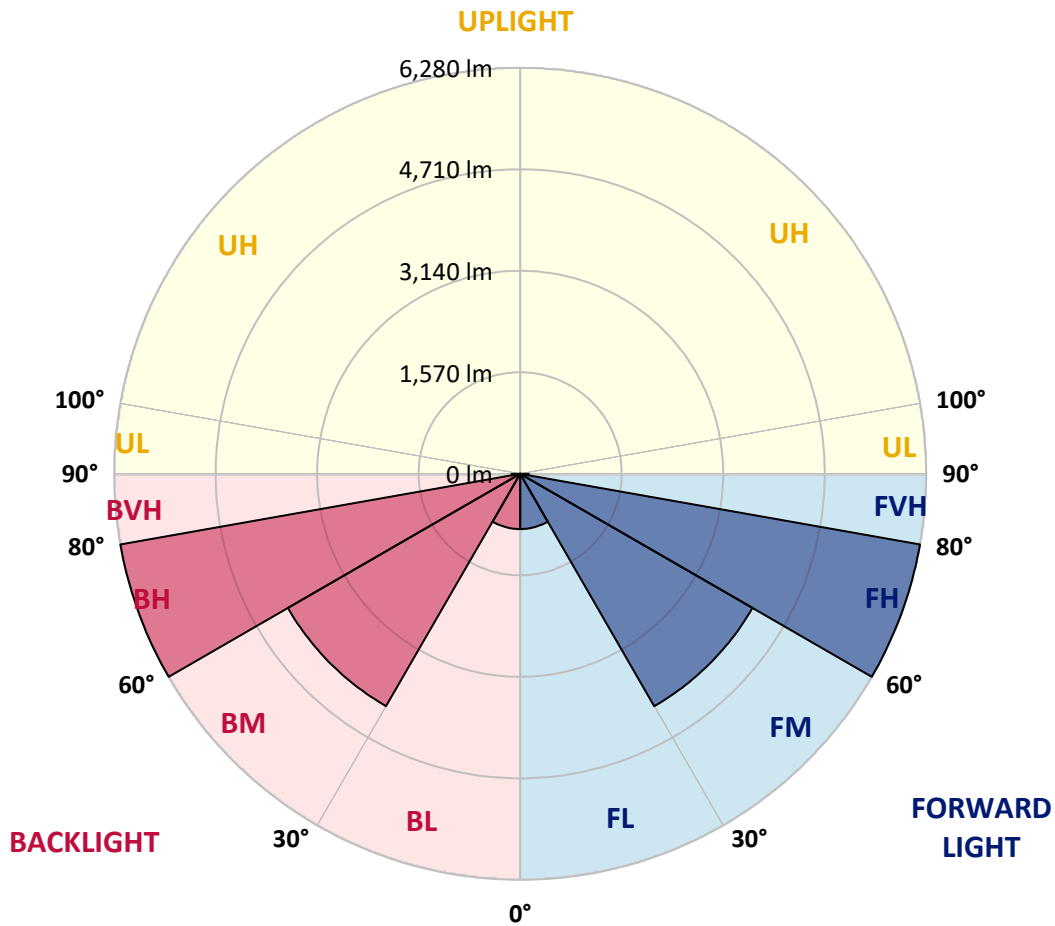
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.5	3.7			
FM (30°-60°)	4149.4	18.2			
FH (60°-80°)	6279.7	27.5			G3/7500
FVH (80°-90°)	130.5	0.6			G2/225
BL (0°-30°)	854.5	3.7	B2/1000		
BM (30°-60°)	4149.4	18.2	B3/5000		
BH (60°-80°)	6279.7	27.5	B5		G3/7500
BVH (80°-90°)	130.5	0.6			G2/225
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°	2082.4	2082.4	2082.4	2082.4	2082.4	2082.4	2082.4	2082.4	2082.4	2082.4
2.5°	2069.3	2075.3	2072.9	2068.1	2068.1	2064.6	2068.1	2070.5	2074.1	2076.4
5°	2042.0	2046.8	2045.6	2042.0	2043.2	2039.7	2042.0	2045.6	2048.0	2049.2
7.5°	2018.3	2023.0	2020.7	2014.7	2014.7	2011.2	2012.4	2015.9	2019.5	2020.7
10°	2012.4	2017.1	2010.0	2000.5	1996.9	1992.2	1993.4	1996.9	2004.1	2007.6
12.5°	2014.7	2018.3	2011.2	1996.9	1993.4	1988.6	1988.6	1992.2	2001.7	2006.4
15°	2021.9	2025.4	2014.7	1999.3	1995.8	1992.2	1991.0	1995.8	2006.4	2014.7
17.5°	2034.9	2038.5	2021.9	2000.5	1995.8	1996.9	1995.8	1999.3	2015.9	2031.4
20°	2046.8	2049.2	2026.6	2000.5	1995.8	1996.9	1995.8	2002.9	2024.2	2045.6
22.5°	2050.3	2052.7	2031.4	2008.8	2005.2	2006.4	2005.2	2012.4	2032.5	2053.9
25°	2051.5	2055.1	2038.5	2020.7	2026.6	2029.0	2026.6	2027.8	2043.2	2062.2
27.5°	2069.3	2074.1	2058.6	2043.2	2046.8	2045.6	2049.2	2052.7	2064.6	2083.6
30°	2106.1	2109.7	2096.6	2081.2	2078.8	2070.5	2081.2	2093.1	2106.1	2122.7
32.5°	2166.6	2173.7	2157.1	2140.5	2129.8	2125.1	2133.4	2153.6	2171.4	2189.2
35°	2267.5	2272.2	2256.8	2225.9	2207.0	2207.0	2214.1	2240.2	2268.7	2291.2
37.5°	2409.9	2415.8	2388.5	2351.7	2323.2	2323.2	2332.7	2360.0	2402.7	2434.8
40°	2583.1	2591.4	2557.0	2519.0	2491.7	2487.0	2498.8	2529.7	2570.0	2610.4
42.5°	2791.9	2801.4	2756.3	2723.1	2701.7	2701.7	2707.7	2736.2	2772.9	2822.8
45°	3058.9	3075.5	3013.8	2980.6	2960.4	2965.2	2968.7	2993.6	3026.9	3083.8
47.5°	3376.9	3393.5	3328.2	3293.8	3290.3	3312.8	3298.6	3316.4	3334.2	3399.4
50°	3737.6	3766.1	3721.0	3718.6	3725.7	3767.3	3734.0	3743.5	3723.4	3764.9
52.5°	4179.0	4220.5	4212.2	4226.4	4305.9	4391.4	4315.4	4282.2	4206.3	4219.3
55°	4714.1	4777.0	4788.9	4874.3	5054.6	5229.1	5067.7	4933.6	4772.3	4742.6
57.5°	5322.8	5372.6	5429.6	5604.0	5941.0	6250.7	5941.0	5644.4	5390.4	5329.9
60°	5977.8	6039.5	6094.1	6351.5	6852.3	7287.7	6842.8	6371.7	6035.9	5954.0
62.5°	6681.4	6760.9	6798.9	7084.8	7668.6	8188.3	7676.9	7106.2	6733.6	6645.8
65°	7356.5	7421.8	7464.5	7769.4	8327.1	8848.0	8365.1	7802.7	7419.4	7304.3
67.5°	7671.0	7706.6	7811.0	8156.3	8744.8	9339.2	8844.5	8193.0	7764.7	7563.0
70°	7210.6	7138.2	7389.8	7942.7	8794.6	9640.6	8908.5	7926.1	7401.6	7074.1
72.5°	5572.0	5447.4	5884.0	6829.7	8225.1	9448.4	8282.0	6883.1	6155.8	5491.3
75°	3031.6	2890.4	3493.2	4689.2	6559.2	8189.5	6709.9	4823.3	3889.5	3009.1
77.5°	855.5	802.1	1288.6	2268.7	3945.2	5750.0	4097.1	2318.5	1528.3	906.5
80°	262.2	253.9	344.1	683.4	1675.4	2754.0	1610.1	691.8	437.8	276.5
82.5°	155.4	142.4	170.9	249.2	427.2	865.0	415.3	259.9	208.8	140.0
85°	89.0	83.1	100.9	121.0	143.6	183.9	119.8	123.4	111.5	74.8
87.5°	36.8	33.2	39.2	38.0	33.2	42.7	32.0	38.0	45.1	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2082.4
2075.3
2049.2
2020.7
2007.6
2007.6
2015.9
2031.4
2046.8
2053.9
2061.0
2078.8
2119.2
2182.0
2282.9
2422.9
2597.3
2819.2
3081.4
3380.4
3740.0
4175.4
4696.3
5287.2
5882.9
6574.6
7247.4
7565.4
7152.4
5656.2
3204.8
1007.4
291.9
151.9
78.3
27.3
0.0

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