

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: P947036

Luminaire Tested: **GALN-SB2C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947036
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-SB2C-735-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15694 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

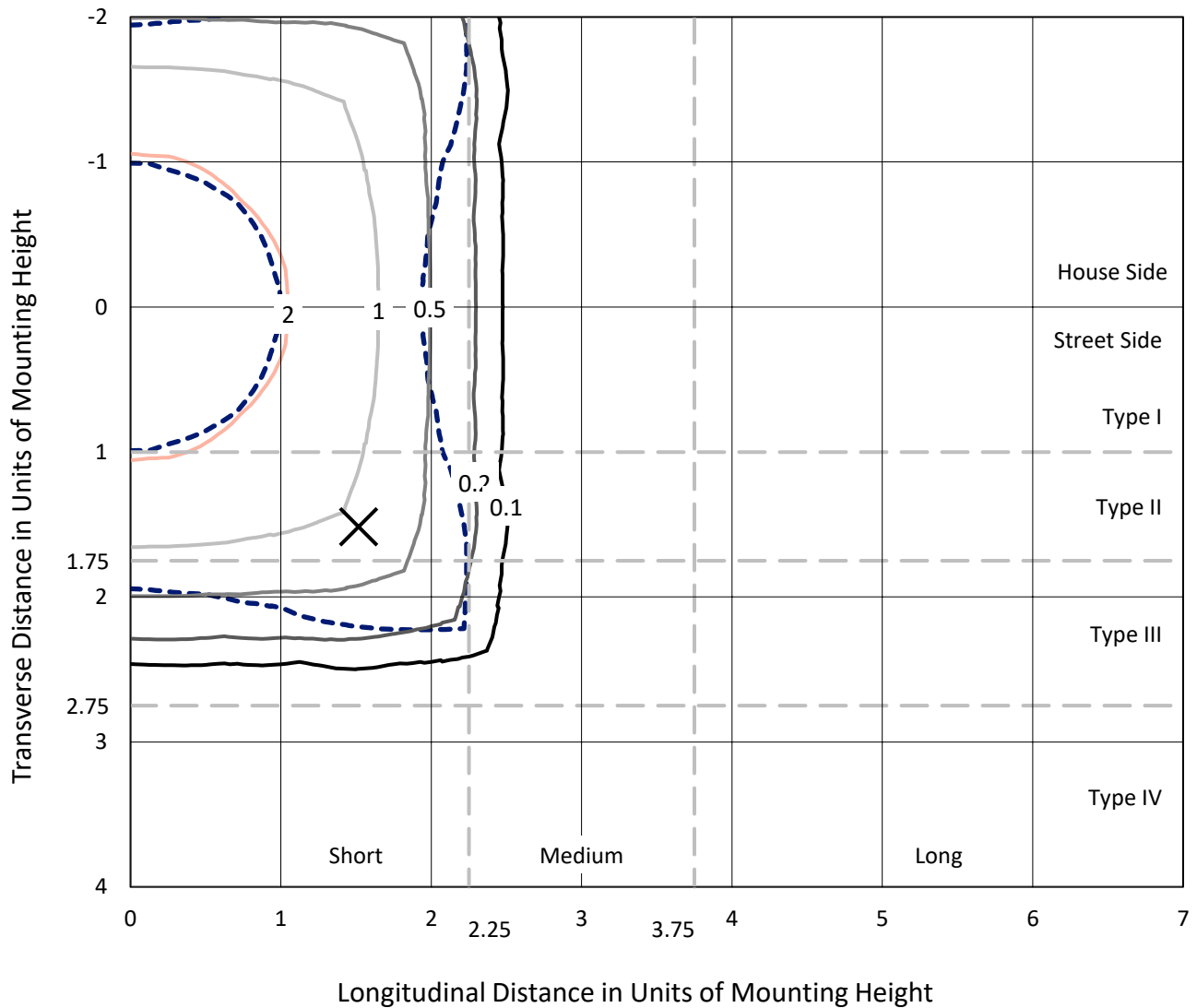
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

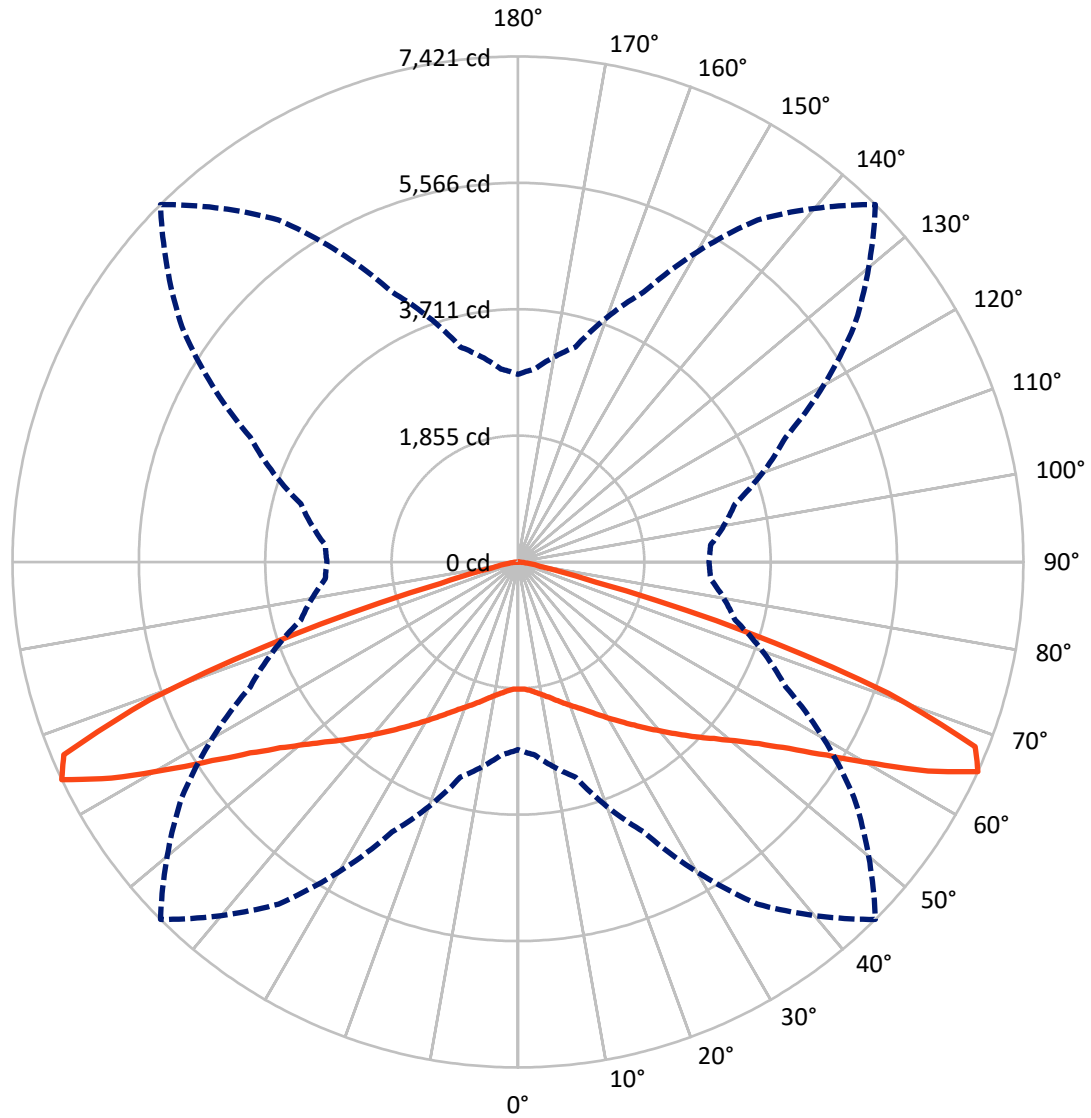
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	7847.0	0.0	7847.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7847.0	0.0	7847.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15694.0	0.0	15694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	1.2
10°-20°	601.5	3.8
20°-30°	1135.7	7.2
30°-40°	1859.6	11.8
40°-50°	2883.3	18.4
50°-60°	4259.3	27.1
60°-70°	4054.4	25.8
70°-80°	654.2	4.2
80°-90°	61.7	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°	15694.0	100.0
0°-180°	15694.0	100.0



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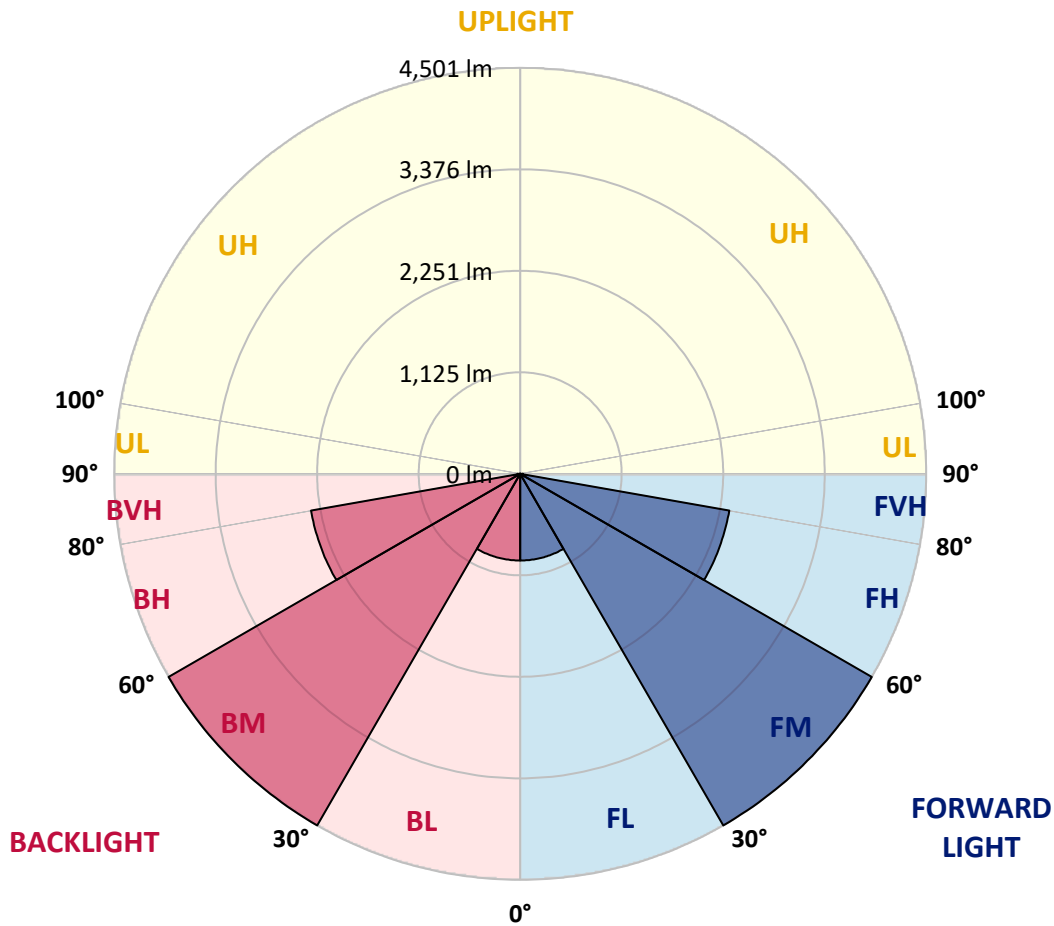
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.7	6.1			
FM (30°-60°)	4501.1	28.7			
FH (60°-80°)	2354.3	15.0			G2/5000
FVH (80°-90°)	30.8	0.2			G1/100
BL (0°-30°)	960.7	6.1	B2/1000		
BM (30°-60°)	4501.1	28.7	B3/5000		
BH (60°-80°)	2354.3	15.0	B3/2500		G2/5000
BVH (80°-90°)	30.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7
2.5°	1880.3	1874.0	1878.8	1874.8	1871.7	1868.5	1870.1	1875.6	1878.0	1878.8
5°	1905.5	1900.0	1902.4	1902.4	1896.9	1895.3	1896.1	1900.0	1904.8	1904.8
7.5°	1946.5	1941.0	1946.5	1943.3	1938.6	1937.0	1936.2	1939.4	1946.5	1946.5
10°	1996.1	1989.8	1992.9	1991.4	1985.9	1983.5	1982.7	1987.4	1993.7	1992.9
12.5°	2050.4	2043.3	2047.3	2042.5	2041.0	2038.6	2038.6	2037.8	2041.8	2038.6
15°	2111.1	2106.3	2107.9	2104.8	2107.1	2105.5	2099.2	2096.1	2097.7	2092.9
17.5°	2182.7	2171.7	2177.2	2175.6	2175.6	2178.8	2168.5	2164.6	2167.7	2163.0
20°	2265.4	2254.4	2256.7	2253.6	2249.6	2252.8	2240.2	2243.3	2245.7	2242.6
22.5°	2355.9	2341.8	2341.0	2342.6	2333.9	2334.7	2326.0	2333.9	2338.6	2330.0
25°	2448.9	2433.9	2444.1	2440.2	2429.2	2431.5	2425.2	2433.1	2437.0	2426.0
27.5°	2547.3	2537.0	2546.5	2548.9	2535.5	2544.9	2535.5	2542.6	2546.5	2530.0
30°	2662.2	2652.0	2660.7	2667.0	2651.2	2666.2	2658.3	2663.0	2663.8	2644.1
32.5°	2787.4	2771.7	2793.7	2796.9	2779.6	2797.7	2787.4	2793.7	2797.7	2770.9
35°	2940.2	2920.5	2945.7	2941.8	2926.8	2941.8	2932.3	2941.8	2951.2	2918.9
37.5°	3104.8	3084.3	3111.1	3104.0	3089.8	3100.0	3094.5	3100.8	3115.8	3081.1
40°	3285.9	3260.7	3296.9	3284.3	3270.9	3269.3	3272.5	3276.4	3296.1	3257.5
42.5°	3479.6	3452.8	3507.1	3487.5	3468.6	3456.0	3466.2	3474.1	3493.0	3449.7
45°	3700.8	3670.1	3741.0	3717.4	3687.5	3661.5	3678.0	3689.8	3717.4	3665.4
47.5°	3944.9	3910.3	3985.9	3978.8	3930.0	3873.3	3911.1	3944.9	3965.4	3902.4
50°	4183.5	4156.8	4256.0	4264.6	4204.8	4125.3	4178.0	4229.2	4234.7	4152.0
52.5°	4407.1	4380.4	4524.5	4578.8	4525.3	4430.8	4486.7	4538.6	4496.9	4389.8
55°	4585.9	4563.8	4747.3	4887.5	4905.6	4827.6	4860.7	4859.1	4722.1	4557.5
57.5°	4629.2	4626.0	4857.5	5154.4	5343.4	5352.8	5287.5	5120.5	4825.3	4604.0
60°	4432.3	4452.0	4770.1	5293.8	5797.7	6007.2	5724.5	5248.1	4707.9	4400.8
62.5°	3843.4	3895.3	4278.8	5123.7	6164.7	6759.9	6074.9	5054.4	4226.0	3825.3
65°	2754.4	2844.9	3268.6	4372.5	6131.6	7421.4	6024.5	4337.1	3300.0	2837.8
67.5°	1249.6	1341.8	1701.6	2993.7	5330.0	7241.8	5317.4	3025.2	1786.6	1346.5
70°	452.8	468.5	584.3	1198.4	3406.3	5770.2	3552.0	1207.1	621.3	499.2
72.5°	274.0	276.4	300.8	429.1	1183.5	3503.2	1233.9	443.3	307.1	272.4
75°	174.0	172.4	214.2	262.2	419.7	1181.9	440.2	262.2	213.4	194.5
77.5°	125.2	129.1	153.5	196.1	264.6	400.8	259.8	187.4	153.5	126.0
80°	93.7	96.1	111.8	152.8	185.8	249.6	165.4	138.6	115.7	78.7
82.5°	67.7	67.7	73.2	111.0	113.4	134.6	89.8	97.6	76.4	55.9
85°	40.2	39.4	45.7	66.1	59.1	49.6	40.9	59.8	48.0	34.6
87.5°	14.2	15.0	14.2	18.9	15.7	13.4	12.6	16.5	13.4	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
1867.7
1878.8
1904.8
1944.1
1991.4
2040.2
2093.7
2167.0
2249.6
2338.6
2438.6
2542.6
2655.9
2789.0
2938.6
3102.4
3270.1
3472.5
3692.2
3923.7
4162.3
4393.0
4563.1
4589.8
4364.6
3801.6
2804.0
1326.8
492.9
277.2
196.1
128.3
81.1
55.9
33.9
11.0
0.0

OF REPORT)