

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: P946637

Luminaire Tested: **GALN-SB2B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946637
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-SB2B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10945 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 73.9
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

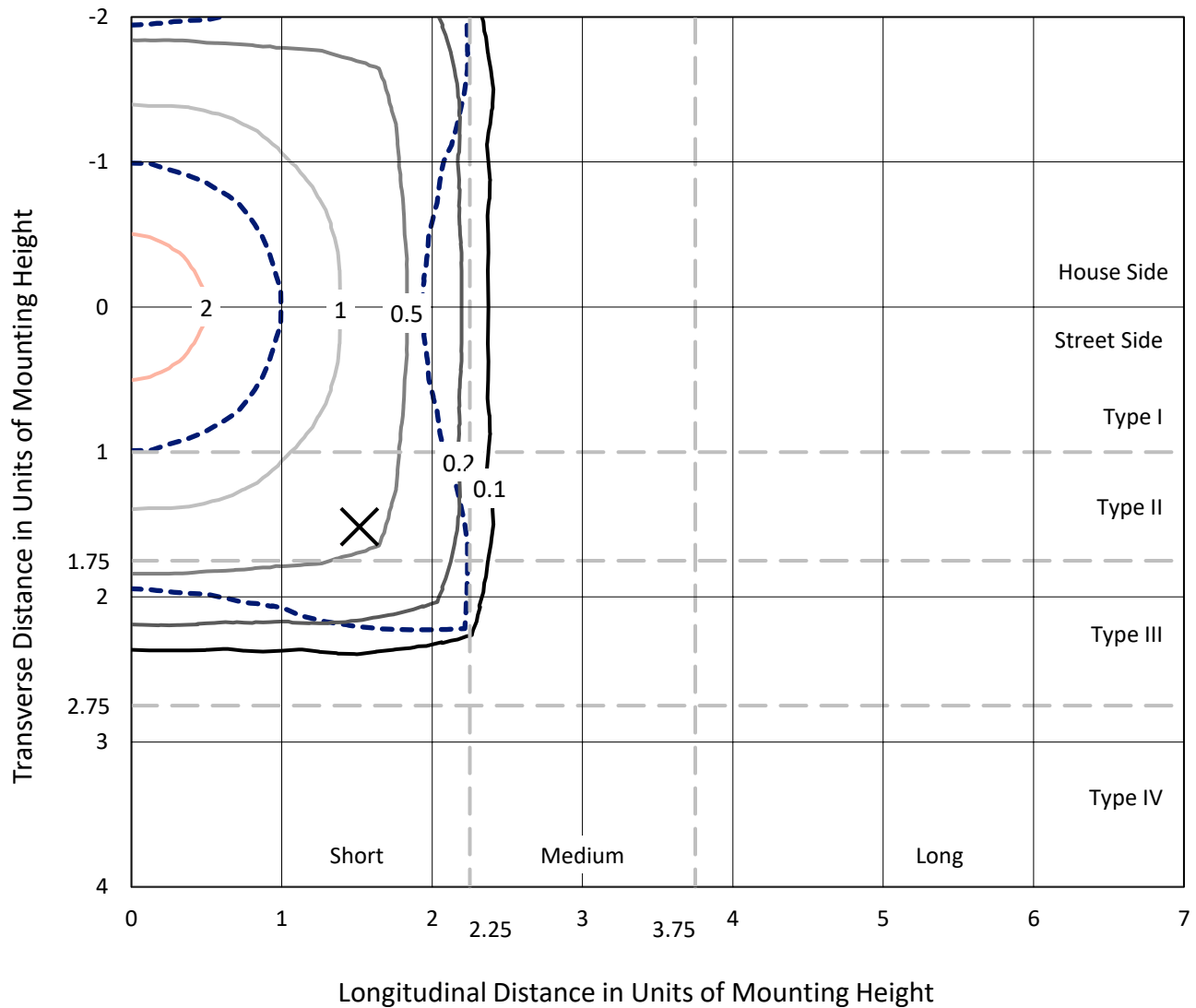


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

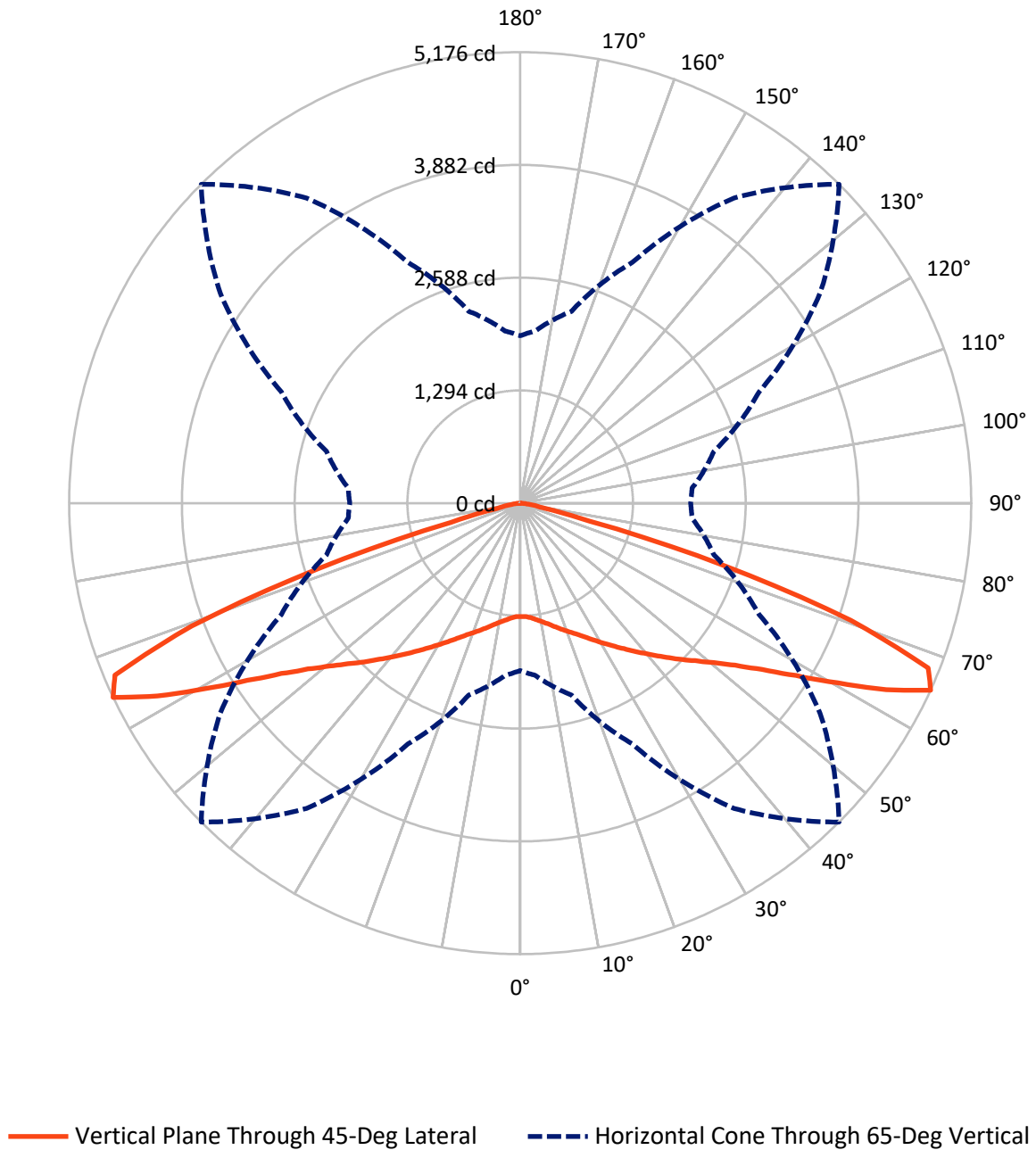


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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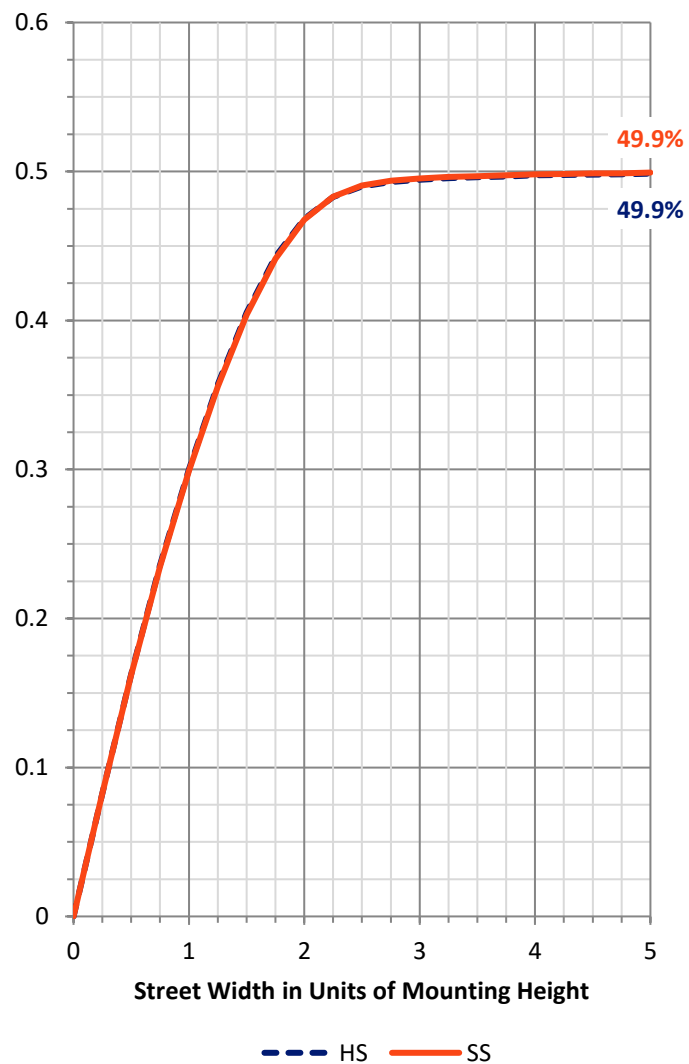
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5472.5	0.0	5472.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5472.5	0.0	5472.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10945.0	0.0	10945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	1.2
10°-20°	419.5	3.8
20°-30°	792.0	7.2
30°-40°	1296.9	11.8
40°-50°	2010.8	18.4
50°-60°	2970.4	27.1
60°-70°	2827.6	25.8
70°-80°	456.3	4.2
80°-90°	43.0	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°	10945.0	100.0
0°-180°	10945.0	100.0

Coefficient of Utilization



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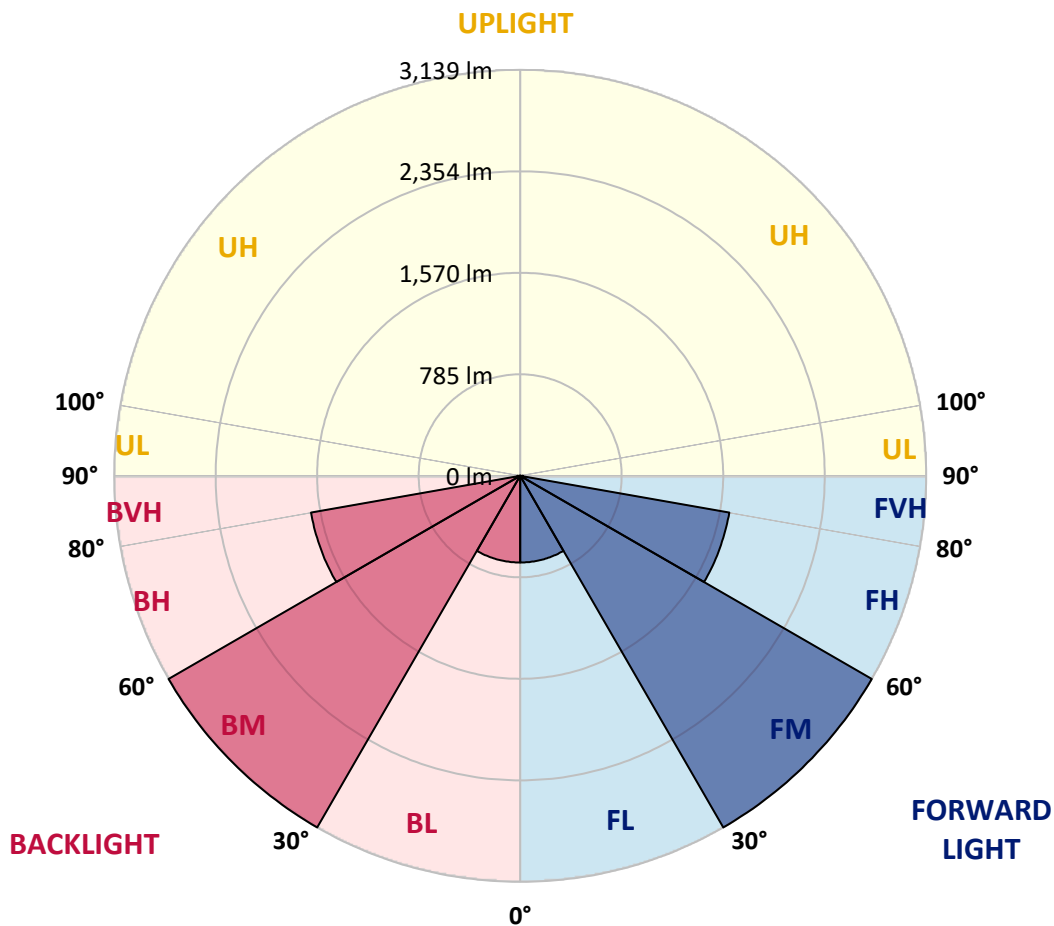
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	670.0	6.1			
FM	(30°-60°)	3139.1	28.7			
FH	(60°-80°)	1641.9	15.0			G1/1800
FVH	(80°-90°)	21.5	0.2			G1/100
BL	(0°-30°)	670.0	6.1	B2/1000		
BM	(30°-60°)	3139.1	28.7	B3/5000		
BH	(60°-80°)	1641.9	15.0	B3/2500		G1/1800
BVH	(80°-90°)	21.5	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6
2.5°	1311.4	1307.0	1310.3	1307.5	1305.3	1303.1	1304.2	1308.1	1309.7	1310.3	1310.3
5°	1328.9	1325.1	1326.7	1326.7	1322.9	1321.8	1322.3	1325.1	1328.4	1328.4	1328.4
7.5°	1357.5	1353.6	1357.5	1355.3	1352.0	1350.9	1350.3	1352.5	1357.5	1357.5	1355.8
10°	1392.1	1387.7	1389.9	1388.8	1384.9	1383.3	1382.7	1386.0	1390.4	1389.9	1388.8
12.5°	1430.0	1425.0	1427.8	1424.5	1423.4	1421.7	1421.7	1421.2	1423.9	1421.7	1422.8
15°	1472.2	1469.0	1470.1	1467.9	1469.5	1468.4	1464.0	1461.8	1462.9	1459.6	1460.2
17.5°	1522.2	1514.5	1518.4	1517.3	1517.3	1519.5	1512.3	1509.6	1511.8	1508.5	1511.2
20°	1579.9	1572.2	1573.8	1571.6	1568.9	1571.1	1562.3	1564.5	1566.2	1564.0	1568.9
22.5°	1643.0	1633.1	1632.6	1633.7	1627.7	1628.2	1622.2	1627.7	1631.0	1624.9	1631.0
25°	1707.8	1697.4	1704.5	1701.8	1694.1	1695.8	1691.4	1696.8	1699.6	1691.9	1700.7
27.5°	1776.5	1769.3	1775.9	1777.6	1768.2	1774.8	1768.2	1773.2	1775.9	1764.4	1773.2
30°	1856.6	1849.5	1855.6	1859.9	1849.0	1859.4	1853.9	1857.2	1857.7	1844.0	1852.3
32.5°	1944.0	1933.0	1948.4	1950.6	1938.5	1951.1	1944.0	1948.4	1951.1	1932.4	1945.1
35°	2050.5	2036.8	2054.3	2051.6	2041.2	2051.6	2045.0	2051.6	2058.2	2035.7	2049.4
37.5°	2165.3	2151.0	2169.7	2164.7	2154.8	2162.0	2158.1	2162.5	2173.0	2148.8	2163.6
40°	2291.6	2274.0	2299.3	2290.5	2281.1	2280.0	2282.2	2285.0	2298.7	2271.8	2280.6
42.5°	2426.7	2408.0	2445.9	2432.1	2419.0	2410.2	2417.3	2422.8	2436.0	2405.8	2421.7
45°	2581.0	2559.6	2609.0	2592.5	2571.6	2553.5	2565.0	2573.3	2592.5	2556.3	2574.9
47.5°	2751.2	2727.0	2779.8	2774.8	2740.8	2701.2	2727.6	2751.2	2765.5	2721.5	2736.4
50°	2917.6	2898.9	2968.1	2974.2	2932.4	2877.0	2913.7	2949.4	2953.3	2895.6	2902.8
52.5°	3073.5	3054.9	3155.4	3193.3	3155.9	3090.0	3129.0	3165.3	3136.1	3061.5	3063.7
55°	3198.2	3182.8	3310.8	3408.5	3421.2	3366.8	3389.9	3388.8	3293.2	3178.4	3182.3
57.5°	3228.4	3226.2	3387.7	3594.7	3726.5	3733.1	3687.5	3571.1	3365.1	3210.8	3200.9
60°	3091.1	3104.8	3326.7	3691.9	4043.3	4189.4	3992.3	3660.0	3283.3	3069.2	3043.9
62.5°	2680.4	2716.6	2984.0	3573.3	4299.2	4714.4	4236.6	3524.9	2947.2	2667.7	2651.3
65°	1920.9	1984.0	2279.5	3049.4	4276.2	5175.7	4201.5	3024.7	2301.5	1979.1	1955.5
67.5°	871.5	935.7	1186.7	2087.8	3717.1	5050.5	3708.4	2109.8	1246.0	939.0	925.3
70°	315.8	326.7	407.5	835.8	2375.6	4024.1	2477.2	841.8	433.3	348.2	343.8
72.5°	191.1	192.7	209.8	299.3	825.4	2443.1	860.5	309.2	214.2	190.0	193.3
75°	121.4	120.3	149.4	182.9	292.7	824.3	307.0	182.9	148.8	135.6	136.7
77.5°	87.3	90.1	107.1	136.7	184.5	279.5	181.2	130.7	107.1	87.9	89.5
80°	65.3	67.0	78.0	106.5	129.6	174.1	115.3	96.6	80.7	54.9	56.6
82.5°	47.2	47.2	51.1	77.4	79.1	93.9	62.6	68.1	53.3	39.0	39.0
85°	28.0	27.5	31.9	46.1	41.2	34.6	28.6	41.7	33.5	24.2	23.6
87.5°	9.9	10.4	9.9	13.2	11.0	9.3	8.8	11.5	9.3	8.2	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)