

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: P947350

Luminaire Tested: **GALN-SB2D-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947350
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-SB2D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19768 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 147.6
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

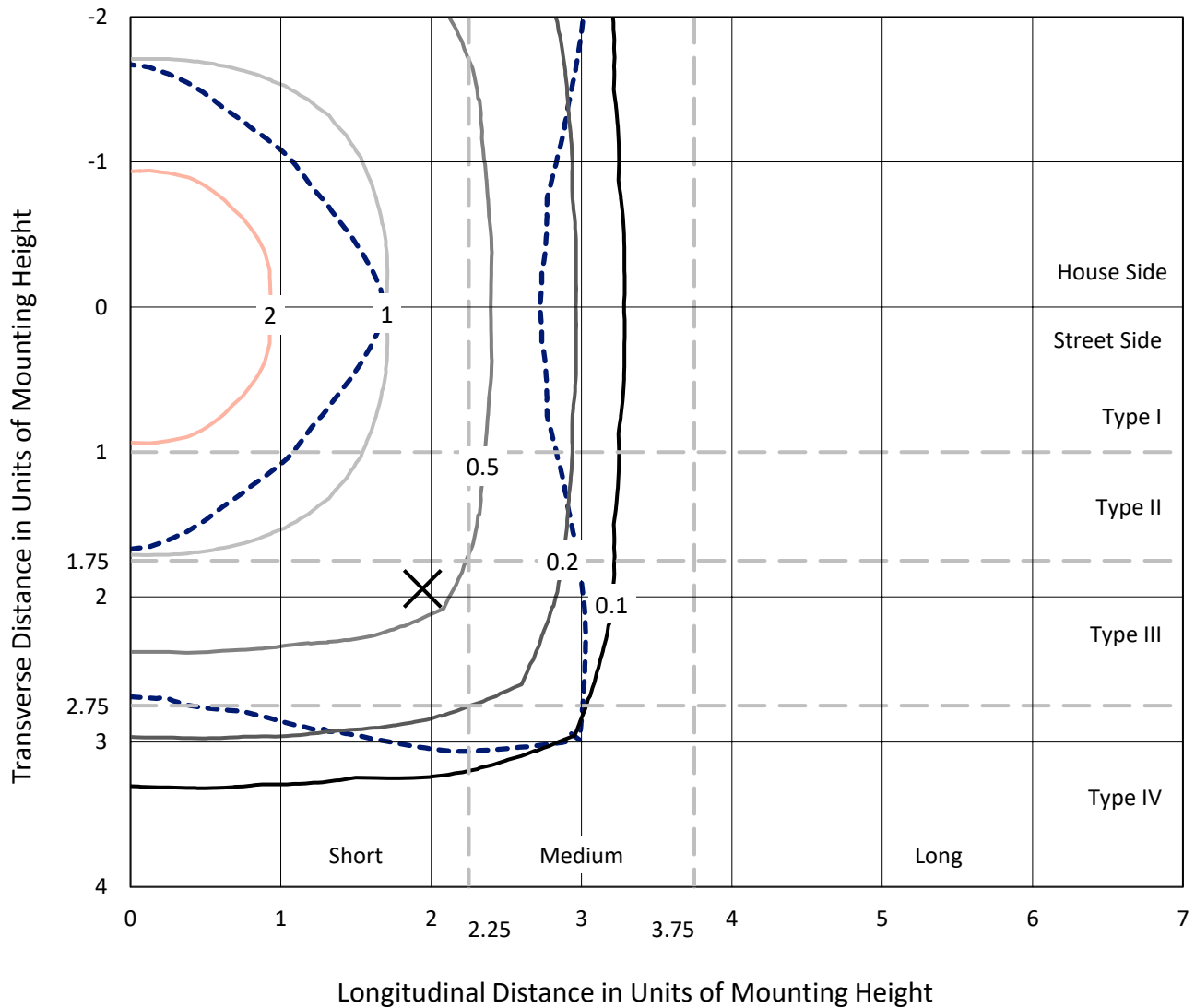


REPORT NUMBER: P947350

CATALOG NUMBER: GALN-SB2D-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

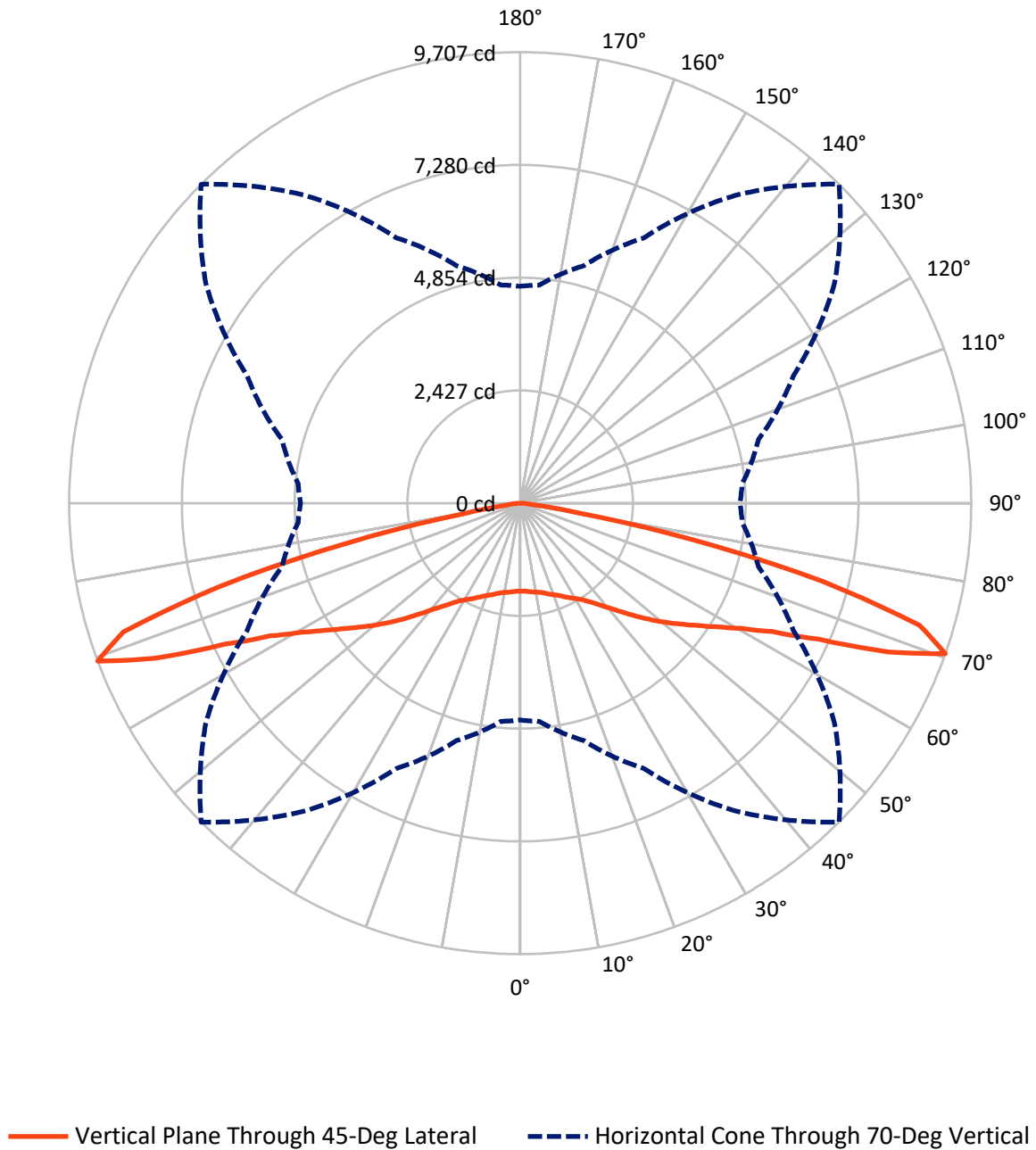


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type V - Short - N/A

REPORT NUMBER: P947350

CATALOG NUMBER: GALN-SB2D-727-U-5MQ

Luminous Intensity Polar Plot



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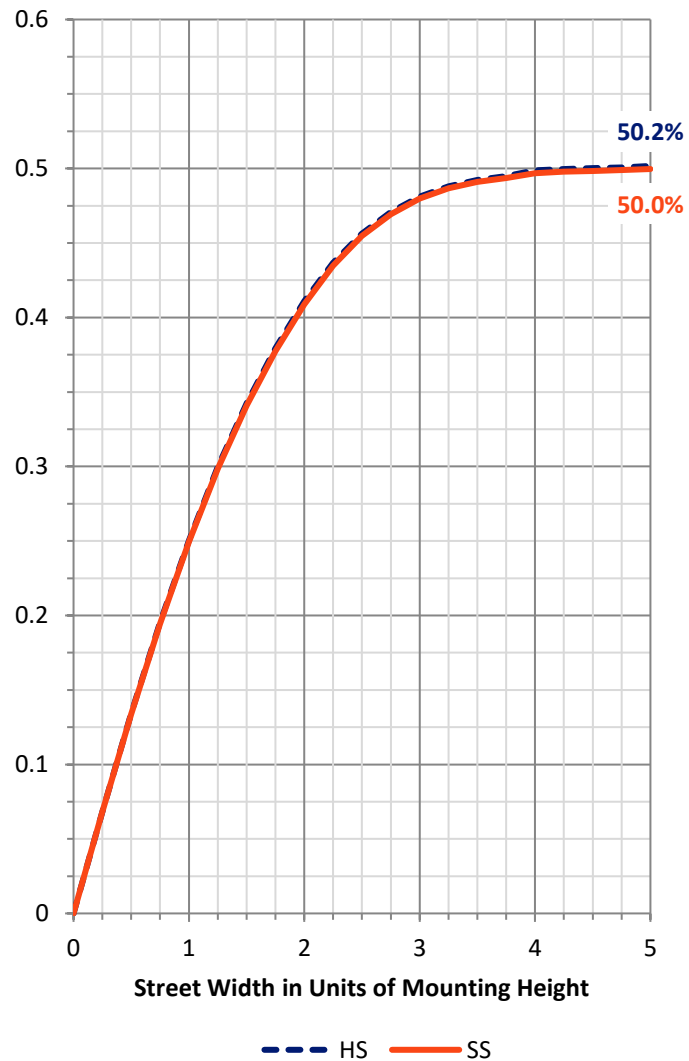
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9884.0	0.0	9884.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9884.0	0.0	9884.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19768.0	0.0	19768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	0.9
10°-20°	570.4	2.9
20°-30°	1019.4	5.2
30°-40°	1652.5	8.4
40°-50°	2691.7	13.6
50°-60°	4103.9	20.8
60°-70°	6105.3	30.9
70°-80°	3327.6	16.8
80°-90°	113.3	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°	19768.0	100.0
0°-180°	19768.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947350

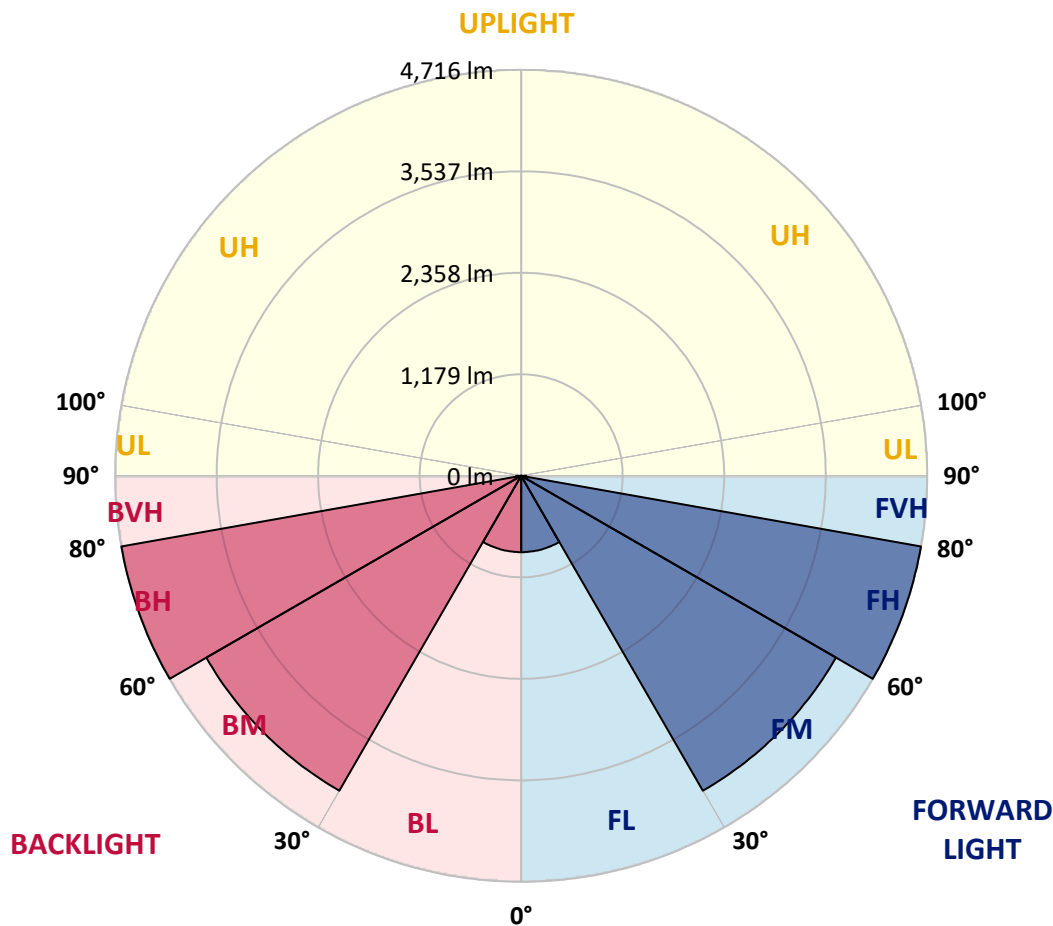
CATALOG NUMBER: GALN-SB2D-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	886.9	4.5			
FM	(30°-60°)	4224.0	21.4			
FH	(60°-80°)	4716.4	23.9			G2/5000
FVH	(80°-90°)	56.7	0.3			G1/100
BL	(0°-30°)	886.9	4.5	B2/1000		
BM	(30°-60°)	4224.0	21.4	B3/5000		
BH	(60°-80°)	4716.4	23.9	B4/5000		G2/5000
BVH	(80°-90°)	56.7	0.3			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°	90°
0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
2.5°	1902.5	1904.5	1900.5	1898.5	1896.5	1893.6	1894.6	1899.5	1903.5	1902.5	1903.5
5°	1918.4	1920.4	1917.4	1916.4	1912.4	1911.4	1911.4	1916.4	1919.4	1917.4	1918.4
7.5°	1936.2	1939.2	1934.3	1933.3	1931.3	1929.3	1928.3	1933.3	1936.2	1936.2	1936.2
10°	1953.1	1956.1	1952.1	1949.1	1947.2	1947.2	1945.2	1949.1	1954.1	1953.1	1953.1
12.5°	1971.0	1973.0	1969.0	1967.0	1967.0	1970.0	1967.0	1969.0	1973.0	1971.0	1970.0
15°	1992.8	1993.8	1992.8	1995.8	2000.8	2010.7	2001.7	1999.8	2001.7	1996.8	1996.8
17.5°	2022.6	2024.6	2028.5	2035.5	2042.4	2060.3	2044.4	2039.5	2039.5	2029.5	2029.5
20°	2059.3	2062.3	2068.2	2080.1	2089.1	2106.0	2090.1	2083.1	2080.1	2067.2	2067.2
22.5°	2098.0	2103.0	2111.9	2127.8	2143.7	2159.5	2143.7	2131.8	2122.8	2106.0	2105.0
25°	2142.7	2148.6	2162.5	2188.3	2210.2	2233.0	2214.1	2190.3	2172.4	2148.6	2147.6
27.5°	2206.2	2213.1	2230.0	2261.8	2289.6	2309.4	2291.5	2260.8	2236.0	2207.2	2206.2
30°	2295.5	2302.5	2322.3	2356.0	2374.9	2387.8	2375.9	2352.1	2322.3	2289.6	2289.6
32.5°	2410.6	2419.6	2441.4	2473.2	2477.1	2479.1	2475.1	2463.2	2441.4	2401.7	2402.7
35°	2556.5	2566.4	2591.3	2617.1	2613.1	2617.1	2611.1	2607.1	2591.3	2545.6	2545.6
37.5°	2735.2	2747.1	2772.9	2792.7	2782.8	2777.8	2778.8	2779.8	2770.9	2720.3	2720.3
40°	2942.6	2958.5	2977.3	2998.2	2981.3	2966.4	2976.3	2984.3	2976.3	2924.7	2924.7
42.5°	3155.9	3178.8	3198.6	3228.4	3214.5	3195.6	3209.5	3218.5	3201.6	3146.0	3150.0
45°	3393.1	3415.0	3440.8	3485.4	3475.5	3455.7	3475.5	3477.5	3448.7	3383.2	3390.2
47.5°	3638.3	3661.1	3699.8	3759.4	3755.4	3733.5	3759.4	3745.5	3708.7	3630.3	3625.4
50°	3870.5	3902.3	3961.8	4045.2	4053.1	4026.3	4061.1	4034.3	3972.7	3874.5	3872.5
52.5°	4088.8	4122.6	4216.9	4330.0	4358.8	4324.0	4370.7	4324.0	4231.8	4105.7	4093.8
55°	4318.1	4355.8	4468.0	4615.8	4673.4	4647.6	4691.2	4620.8	4489.8	4336.9	4316.1
57.5°	4588.0	4610.9	4744.8	4920.5	5017.8	5023.7	5043.6	4924.5	4765.7	4592.0	4568.2
60°	4880.8	4912.6	5058.5	5268.8	5422.7	5472.3	5451.5	5274.8	5090.2	4890.7	4859.0
62.5°	5255.9	5290.7	5465.4	5717.4	5960.6	6083.6	6002.3	5746.2	5517.9	5278.8	5237.1
65°	5566.6	5605.3	5920.9	6370.5	6813.1	7060.2	6855.8	6384.3	5973.5	5636.0	5580.5
67.5°	5341.3	5388.9	5884.2	6709.9	7810.5	8547.9	7848.2	6811.1	6006.2	5548.7	5480.2
70°	4668.4	4713.1	5290.7	6300.0	8091.3	9707.0	8260.1	6485.6	5309.5	4797.4	4729.0
72.5°	3099.4	3243.3	3827.8	5038.6	7224.9	8982.5	7296.4	4936.4	3550.9	3092.4	2992.2
75°	1028.2	1143.3	1542.2	2612.1	4839.1	6717.8	4606.9	2311.4	1221.7	879.3	831.7
77.5°	259.0	298.7	411.9	747.3	1930.3	3824.9	1737.8	610.3	332.5	232.2	207.4
80°	126.0	138.9	198.5	249.1	483.3	1215.7	453.5	234.2	156.8	121.1	111.2
82.5°	69.5	70.5	112.1	140.9	179.6	314.6	186.6	137.0	90.3	73.4	73.4
85°	42.7	41.7	59.5	75.4	75.4	112.1	89.3	75.4	51.6	45.7	47.6
87.5°	16.9	16.9	21.8	23.8	20.8	28.8	22.8	24.8	19.8	18.9	19.8
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)