

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: P939400

Luminaire Tested: **GALN-SB2A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939400
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-SB2A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8416 lumens
Efficiency: N/A
Efficacy: 146.9 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): 57.3
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

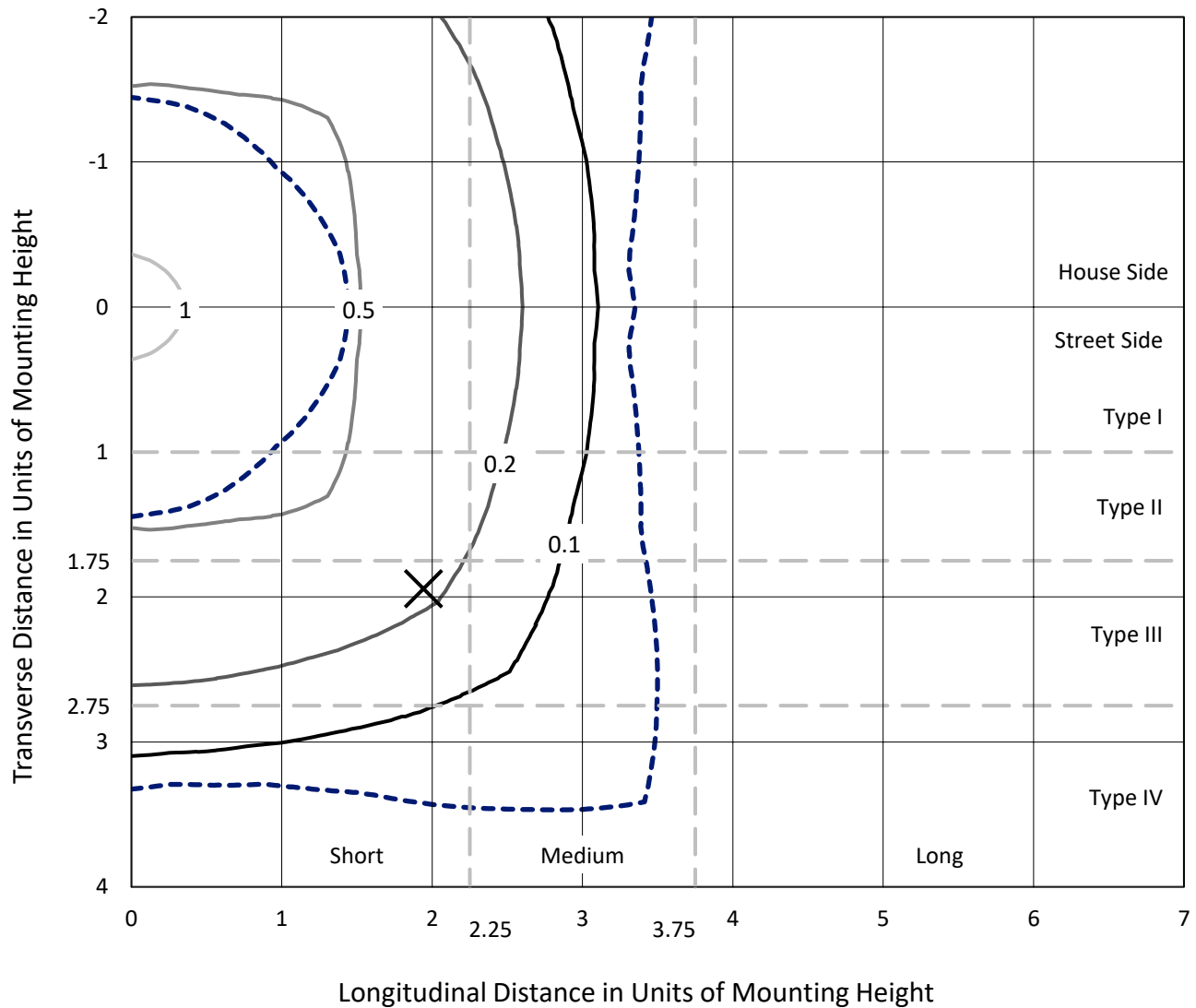


REPORT NUMBER: P939400

CATALOG NUMBER: GALN-SB2A-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

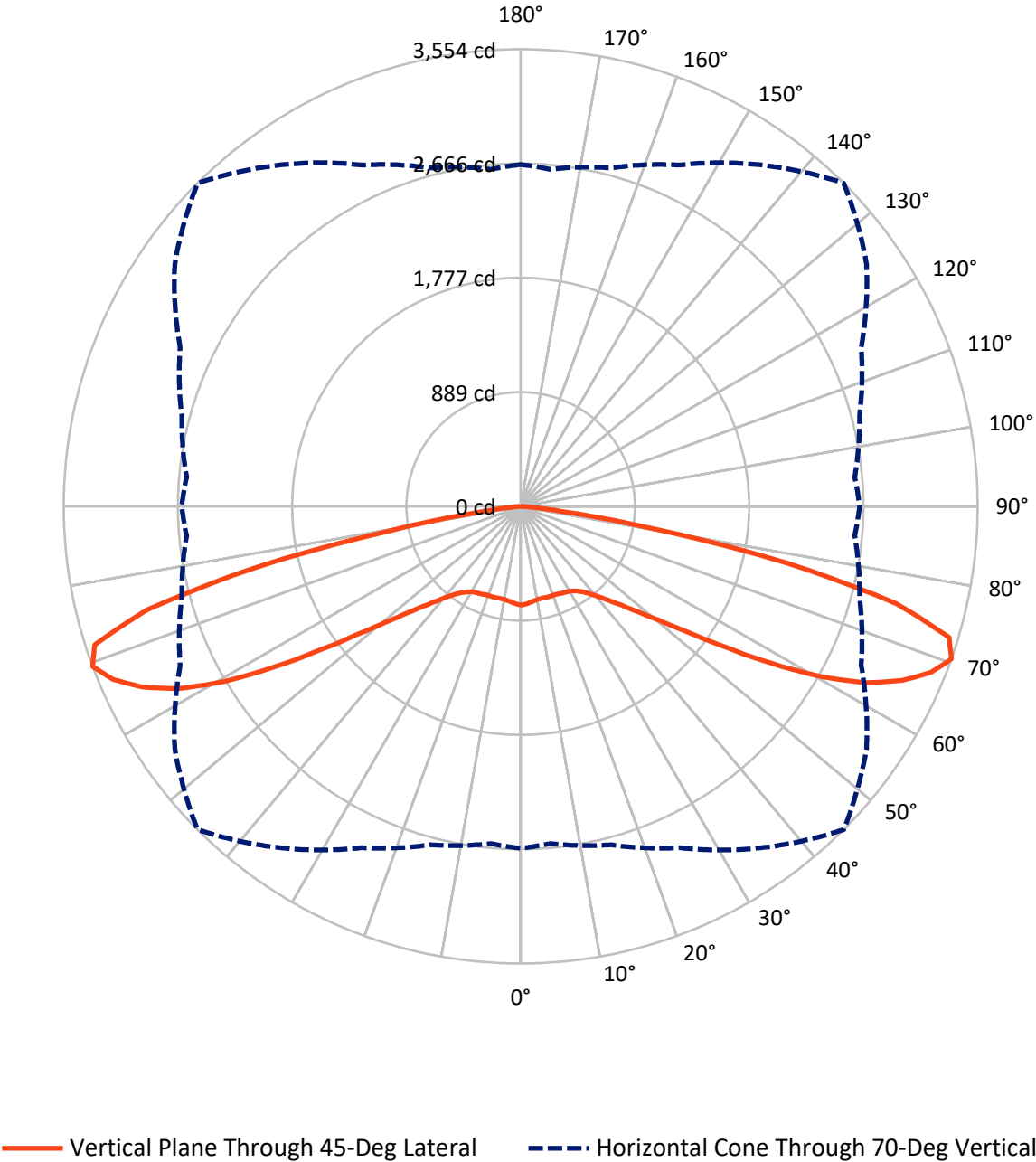
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Short - N/A

REPORT NUMBER: P939400
CATALOG NUMBER: GALN-SB2A-727-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4208.0	0.0	4208.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4208.0	0.0	4208.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8416.0	0.0	8416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	0.8
10°-20°	209.7	2.5
20°-30°	349.0	4.1
30°-40°	527.7	6.3
40°-50°	877.0	10.4
50°-60°	1654.8	19.7
60°-70°	2794.2	33.2
70°-80°	1836.1	21.8
80°-90°	96.2	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°	8416.0	100.0
0°-180°	8416.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939400

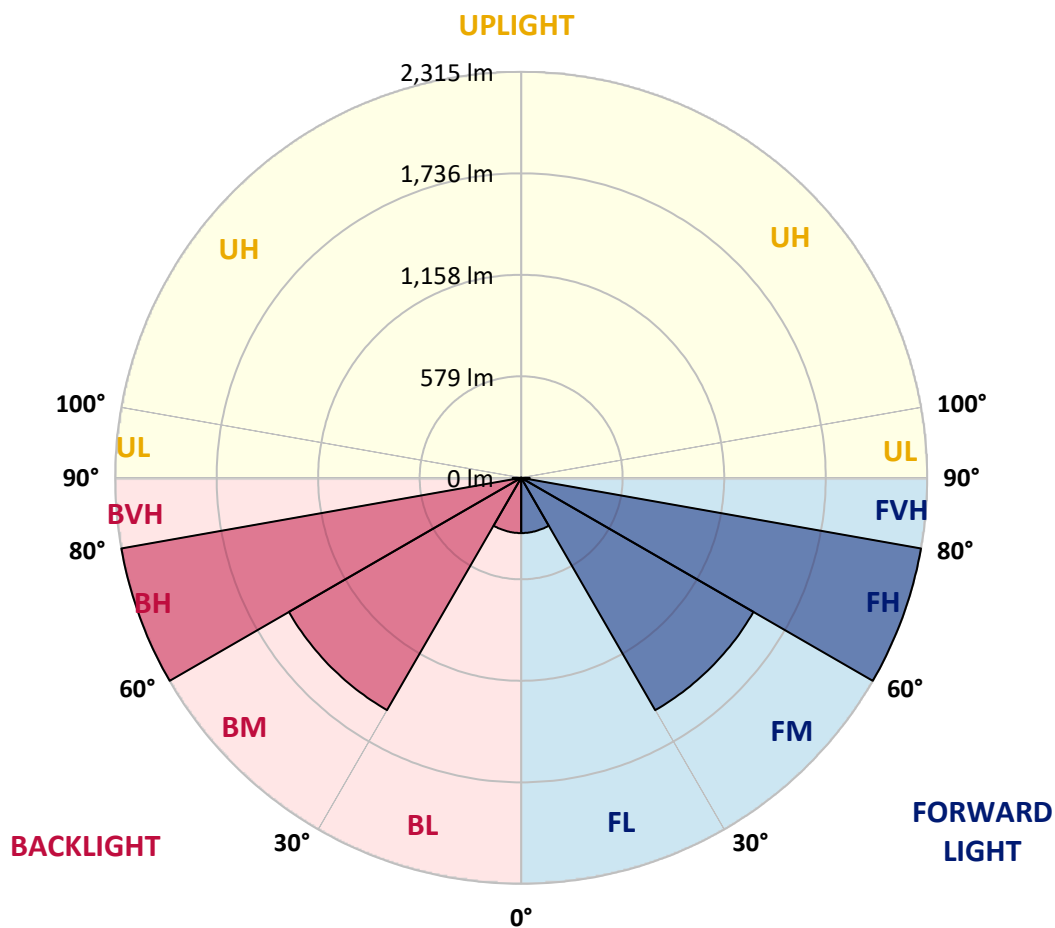
CATALOG NUMBER: GALN-SB2A-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.0	3.7			
FM	(30°-60°)	1529.7	18.2			
FH	(60°-80°)	2315.1	27.5			G2/5000
FVH	(80°-90°)	48.1	0.6			G1/100
BL	(0°-30°)	315.0	3.7	B1/500		
BM	(30°-60°)	1529.7	18.2	B2/2500		
BH	(60°-80°)	2315.1	27.5	B3/2500		G2/5000
BVH	(80°-90°)	48.1	0.6			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°	90°
0°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7
2.5°	762.9	765.1	764.2	762.5	762.5	761.1	762.5	763.3	764.6	765.5	765.1
5°	752.8	754.6	754.1	752.8	753.3	752.0	752.8	754.1	755.0	755.5	755.5
7.5°	744.1	745.8	745.0	742.8	742.8	741.5	741.9	743.2	744.5	745.0	745.0
10°	741.9	743.6	741.0	737.5	736.2	734.5	734.9	736.2	738.8	740.1	740.1
12.5°	742.8	744.1	741.5	736.2	734.9	733.2	733.2	734.5	738.0	739.7	740.1
15°	745.4	746.7	742.8	737.1	735.8	734.5	734.0	735.8	739.7	742.8	743.2
17.5°	750.2	751.5	745.4	737.5	735.8	736.2	735.8	737.1	743.2	748.9	748.9
20°	754.6	755.5	747.1	737.5	735.8	736.2	735.8	738.4	746.3	754.1	754.6
22.5°	755.9	756.8	748.9	740.6	739.3	739.7	739.3	741.9	749.3	757.2	757.2
25°	756.3	757.6	751.5	745.0	747.1	748.0	747.1	747.6	753.3	760.3	759.8
27.5°	762.9	764.6	759.0	753.3	754.6	754.1	755.5	756.8	761.1	768.1	766.4
30°	776.5	777.8	773.0	767.3	766.4	763.3	767.3	771.6	776.5	782.6	781.3
32.5°	798.8	801.4	795.3	789.1	785.2	783.5	786.5	794.0	800.5	807.1	804.5
35°	835.9	837.7	832.0	820.6	813.6	813.6	816.3	825.9	836.4	844.7	841.6
37.5°	888.4	890.6	880.6	867.0	856.5	856.5	860.0	870.1	885.8	897.6	893.3
40°	952.3	955.4	942.7	928.7	918.6	916.9	921.3	932.6	947.5	962.4	957.6
42.5°	1029.3	1032.8	1016.2	1003.9	996.1	996.1	998.2	1008.7	1022.3	1040.7	1039.4
45°	1127.7	1133.8	1111.1	1098.9	1091.4	1093.2	1094.5	1103.7	1115.9	1136.9	1136.0
47.5°	1245.0	1251.1	1227.0	1214.3	1213.0	1221.3	1216.1	1222.6	1229.2	1253.3	1246.3
50°	1377.9	1388.4	1371.8	1370.9	1373.6	1388.9	1376.6	1380.1	1372.7	1388.0	1378.8
52.5°	1540.7	1556.0	1552.9	1558.2	1587.5	1619.0	1591.0	1578.7	1550.7	1555.5	1539.4
55°	1738.0	1761.1	1765.5	1797.0	1863.5	1927.8	1868.3	1818.9	1759.4	1748.5	1731.4
57.5°	1962.4	1980.7	2001.7	2066.0	2190.3	2304.4	2190.3	2080.9	1987.3	1965.0	1949.2
60°	2203.8	2226.6	2246.7	2341.6	2526.2	2686.8	2522.7	2349.1	2225.3	2195.1	2168.8
62.5°	2463.2	2492.5	2506.5	2612.0	2827.2	3018.8	2830.2	2619.8	2482.5	2450.1	2423.9
65°	2712.1	2736.2	2751.9	2864.4	3070.0	3262.0	3084.0	2876.6	2735.3	2692.9	2671.9
67.5°	2828.1	2841.2	2879.7	3007.0	3223.9	3443.1	3260.7	3020.5	2862.6	2788.2	2789.1
70°	2658.3	2631.6	2724.4	2928.2	3242.3	3554.2	3284.3	2922.1	2728.8	2608.0	2636.9
72.5°	2054.2	2008.3	2169.3	2517.9	3032.3	3483.3	3053.3	2537.6	2269.4	2024.5	2085.3
75°	1117.7	1065.6	1287.8	1728.8	2418.2	3019.2	2473.7	1778.2	1433.9	1109.3	1181.5
77.5°	315.4	295.7	475.1	836.4	1454.5	2119.8	1510.5	854.8	563.4	334.2	371.4
80°	96.7	93.6	126.9	252.0	617.7	1015.3	593.6	255.0	161.4	101.9	107.6
82.5°	57.3	52.5	63.0	91.9	157.5	318.9	153.1	95.8	77.0	51.6	56.0
85°	32.8	30.6	37.2	44.6	52.9	67.8	44.2	45.5	41.1	27.6	28.9
87.5°	13.6	12.2	14.4	14.0	12.2	15.7	11.8	14.0	16.6	10.9	10.1
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)