

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: P957347

Luminaire Tested: **GALN-SB9D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957347
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-SB9D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 90088 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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

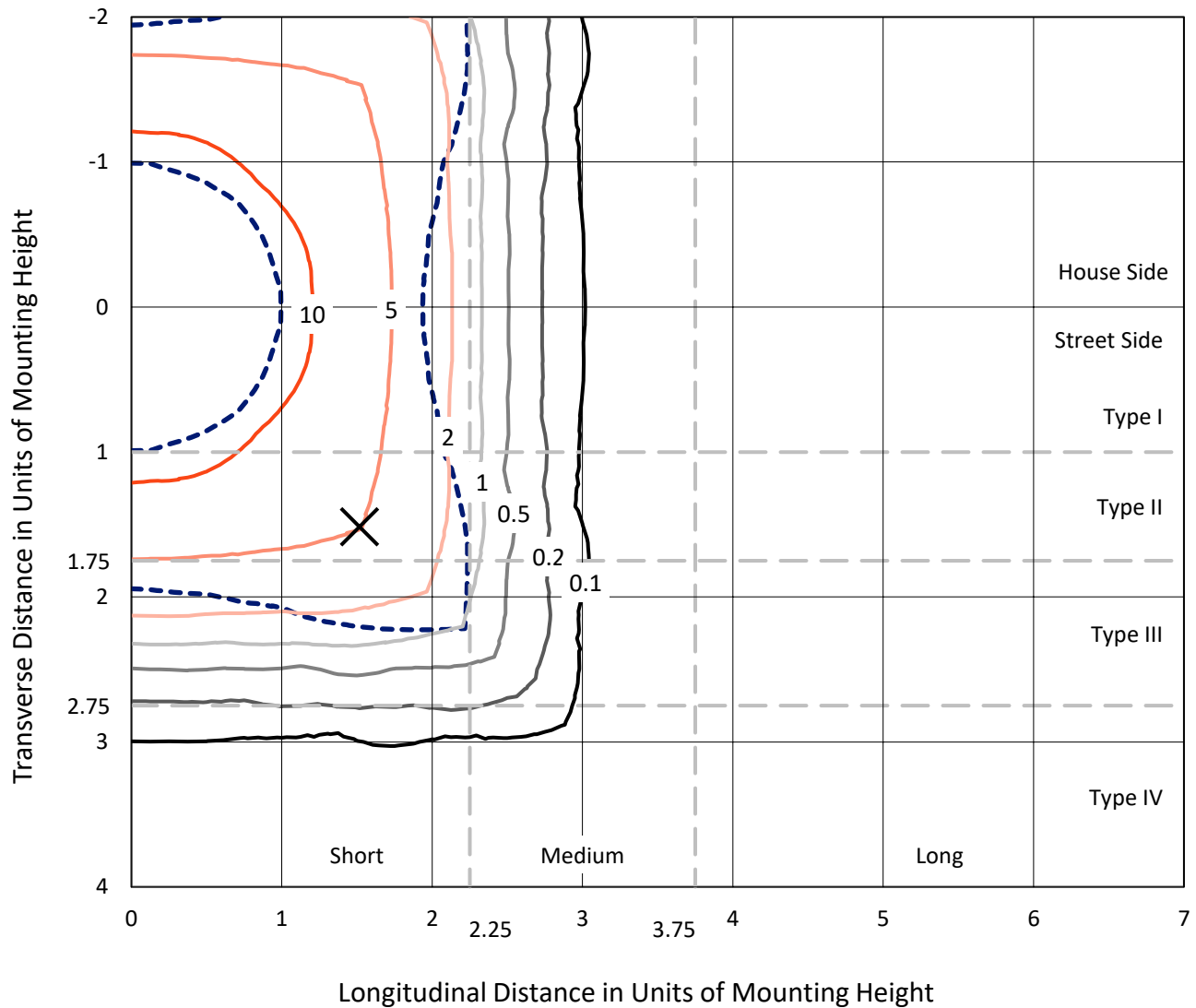


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

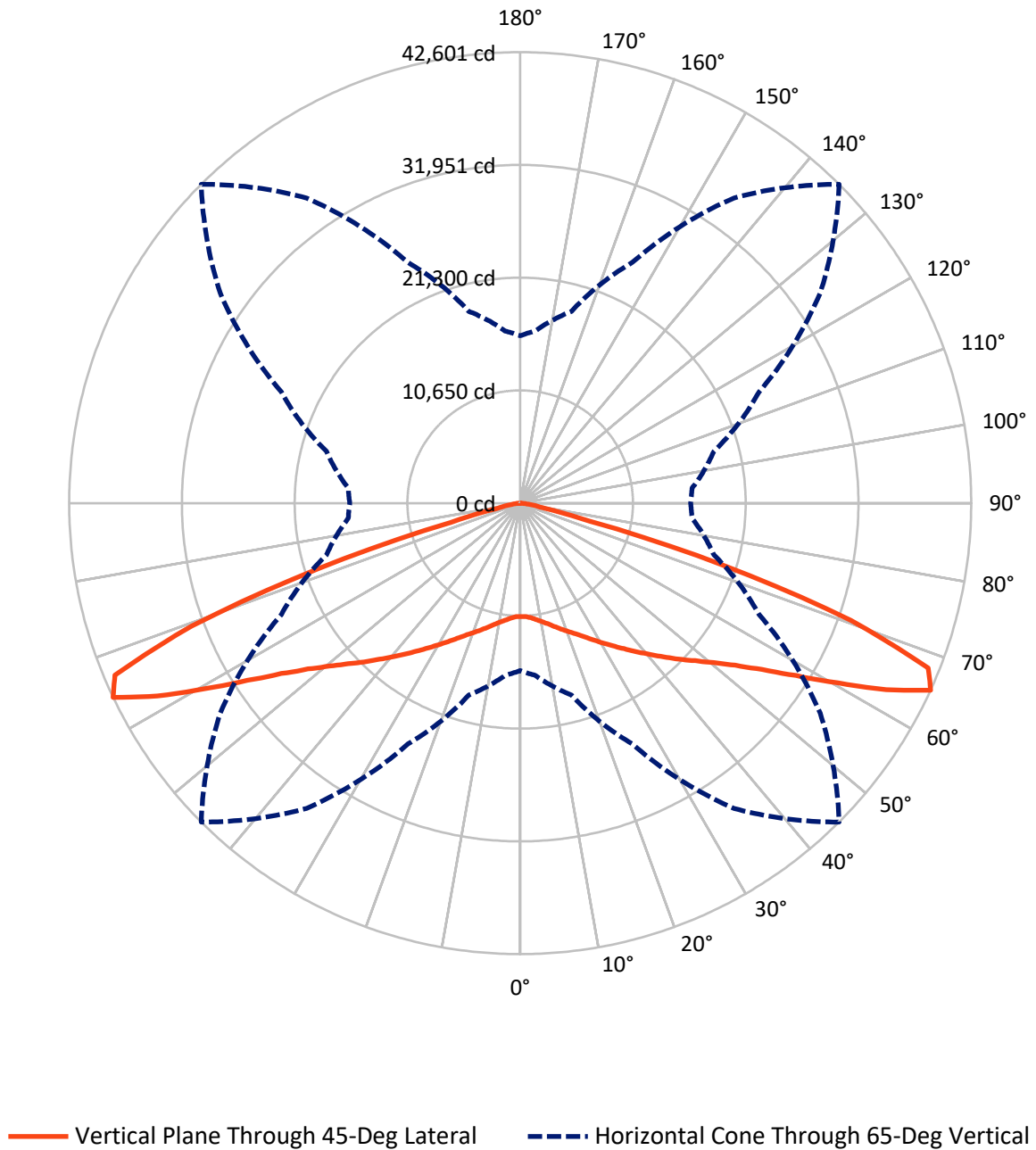


Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45044.0	0.0	45044.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45044.0	0.0	45044.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	90088.0	0.0	90088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.1	1.2
10°-20°	3452.7	3.8
20°-30°	6519.0	7.2
30°-40°	10674.6	11.8
40°-50°	16551.1	18.4
50°-60°	24449.4	27.1
60°-70°	23273.6	25.8
70°-80°	3755.5	4.2
80°-90°	354.0	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°	90088.0	100.0
0°-180°	90088.0	100.0

Coefficient of Utilization



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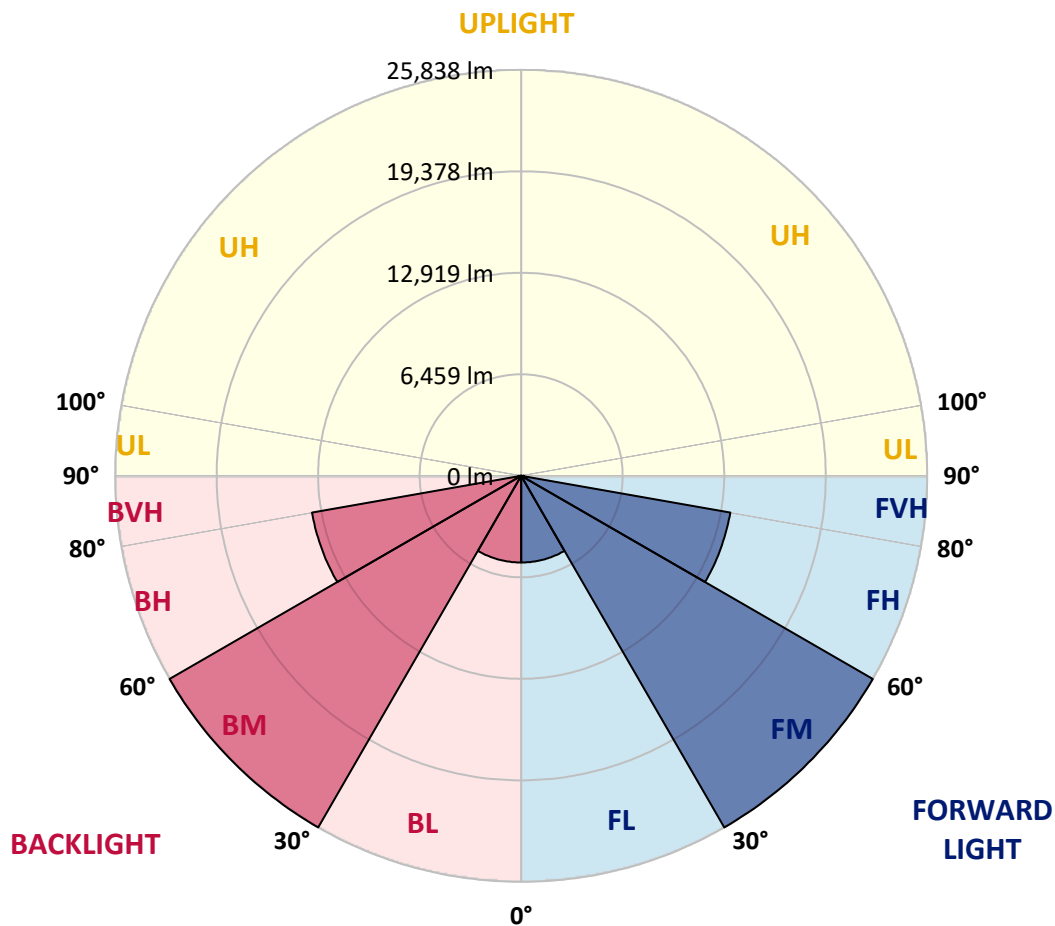
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5514.9	6.1			
FM	(30°-60°)	25837.6	28.7			
FH	(60°-80°)	13514.6	15.0			G5
FVH	(80°-90°)	177.0	0.2			G2/225
BL	(0°-30°)	5514.9	6.1	B5		
BM	(30°-60°)	25837.6	28.7	B5		
BH	(60°-80°)	13514.6	15.0	B5		G5
BVH	(80°-90°)	177.0	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10721.4	10721.4	10721.4	10721.4	10721.4	10721.4	10721.4	10721.4	10721.4	10721.4	10721.4
2.5°	10793.7	10757.5	10784.7	10762.1	10744.0	10725.9	10734.9	10766.6	10780.1	10784.7	10784.7
5°	10938.3	10906.7	10920.3	10920.3	10888.6	10879.6	10884.1	10906.7	10933.8	10933.8	10933.8
7.5°	11173.4	11141.7	11173.4	11155.3	11128.2	11119.1	11114.6	11132.7	11173.4	11173.4	11159.8
10°	11458.1	11422.0	11440.0	11431.0	11399.4	11385.8	11381.3	11408.4	11444.6	11440.0	11431.0
12.5°	11770.0	11729.3	11751.9	11724.8	11715.8	11702.2	11702.2	11697.7	11720.3	11702.2	11711.2
15°	12118.0	12090.9	12100.0	12081.9	12095.4	12086.4	12050.2	12032.2	12041.2	12014.1	12018.6
17.5°	12529.4	12466.1	12497.7	12488.7	12488.7	12506.8	12448.0	12425.4	12443.5	12416.4	12439.0
20°	13004.0	12940.7	12954.2	12936.2	12913.6	12931.6	12859.3	12877.4	12891.0	12872.9	12913.6
22.5°	13523.8	13442.4	13437.9	13446.9	13397.2	13401.7	13352.0	13397.2	13424.3	13374.6	13424.3
25°	14057.1	13971.2	14030.0	14007.4	13944.1	13957.7	13921.5	13966.7	13989.3	13926.0	13998.4
27.5°	14622.1	14563.3	14617.6	14631.1	14554.3	14608.5	14554.3	14595.0	14617.6	14522.7	14595.0
30°	15282.0	15223.3	15273.0	15309.1	15218.7	15304.6	15259.4	15286.5	15291.1	15178.1	15245.9
32.5°	16000.7	15910.3	16036.9	16054.9	15955.5	16059.5	16000.7	16036.9	16059.5	15905.8	16009.7
35°	16877.6	16764.6	16909.2	16886.6	16800.7	16886.6	16832.4	16886.6	16940.9	16755.5	16868.5
37.5°	17822.2	17704.7	17858.4	17817.7	17736.4	17795.1	17763.5	17799.6	17885.5	17686.6	17808.7
40°	18861.8	18717.2	18925.1	18852.8	18776.0	18766.9	18785.0	18807.6	18920.6	18699.1	18771.4
42.5°	19973.8	19820.1	20132.0	20019.0	19910.5	19838.2	19896.9	19942.1	20050.6	19802.0	19933.1
45°	21243.9	21067.6	21474.4	21338.8	21167.0	21017.9	21112.8	21180.6	21338.8	21040.5	21194.1
47.5°	22645.1	22446.2	22880.1	22839.4	22559.2	22233.7	22450.7	22645.1	22762.6	22401.0	22523.0
50°	24014.6	23860.9	24430.4	24480.2	24136.6	23680.1	23983.0	24276.8	24308.4	23833.8	23892.6
52.5°	25298.3	25144.6	25971.8	26283.6	25976.3	25433.9	25754.8	26053.1	25813.6	25198.8	25216.9
55°	26324.3	26197.8	27250.9	28055.5	28159.4	27711.9	27901.8	27892.7	27106.3	26161.6	26193.2
57.5°	26572.9	26554.8	27883.7	29587.7	30672.5	30726.8	30351.6	29393.4	27698.4	26428.3	26346.9
60°	25442.9	25555.9	27382.0	30387.8	33280.6	34482.9	32860.2	30125.6	27024.9	25262.1	25054.2
62.5°	22062.0	22360.3	24561.5	29411.5	35386.9	38804.0	34871.6	29013.7	24258.7	21958.0	21822.4
65°	15810.9	16330.7	18762.4	25099.4	35197.0	42600.7	34582.3	24896.0	18943.2	16290.0	16095.6
67.5°	7173.2	7702.0	9767.7	17184.9	30595.7	41570.2	30523.4	17365.7	10255.8	7729.2	7616.2
70°	2599.0	2689.4	3353.8	6879.4	19553.4	33122.4	20389.6	6929.1	3566.3	2865.7	2829.5
72.5°	1573.0	1586.5	1726.6	2463.4	6793.5	20109.4	7082.8	2544.7	1762.8	1563.9	1591.0
75°	998.9	989.9	1229.4	1505.2	2409.1	6784.5	2526.7	1505.2	1224.9	1116.4	1125.5
77.5°	718.7	741.3	881.4	1125.5	1518.7	2300.7	1491.6	1075.8	881.4	723.2	736.8
80°	537.9	551.4	641.8	876.9	1066.7	1432.8	949.2	795.5	664.4	452.0	465.6
82.5°	388.7	388.7	420.4	637.3	650.9	772.9	515.3	560.5	438.4	320.9	320.9
85°	230.5	226.0	262.2	379.7	339.0	284.8	235.0	343.5	275.7	198.9	194.4
87.5°	81.4	85.9	81.4	108.5	90.4	76.8	72.3	94.9	76.8	67.8	63.3
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)