

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: P956990

Luminaire Tested: **GALN-SB9C-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956990
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-SB9C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66300 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 449.8
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

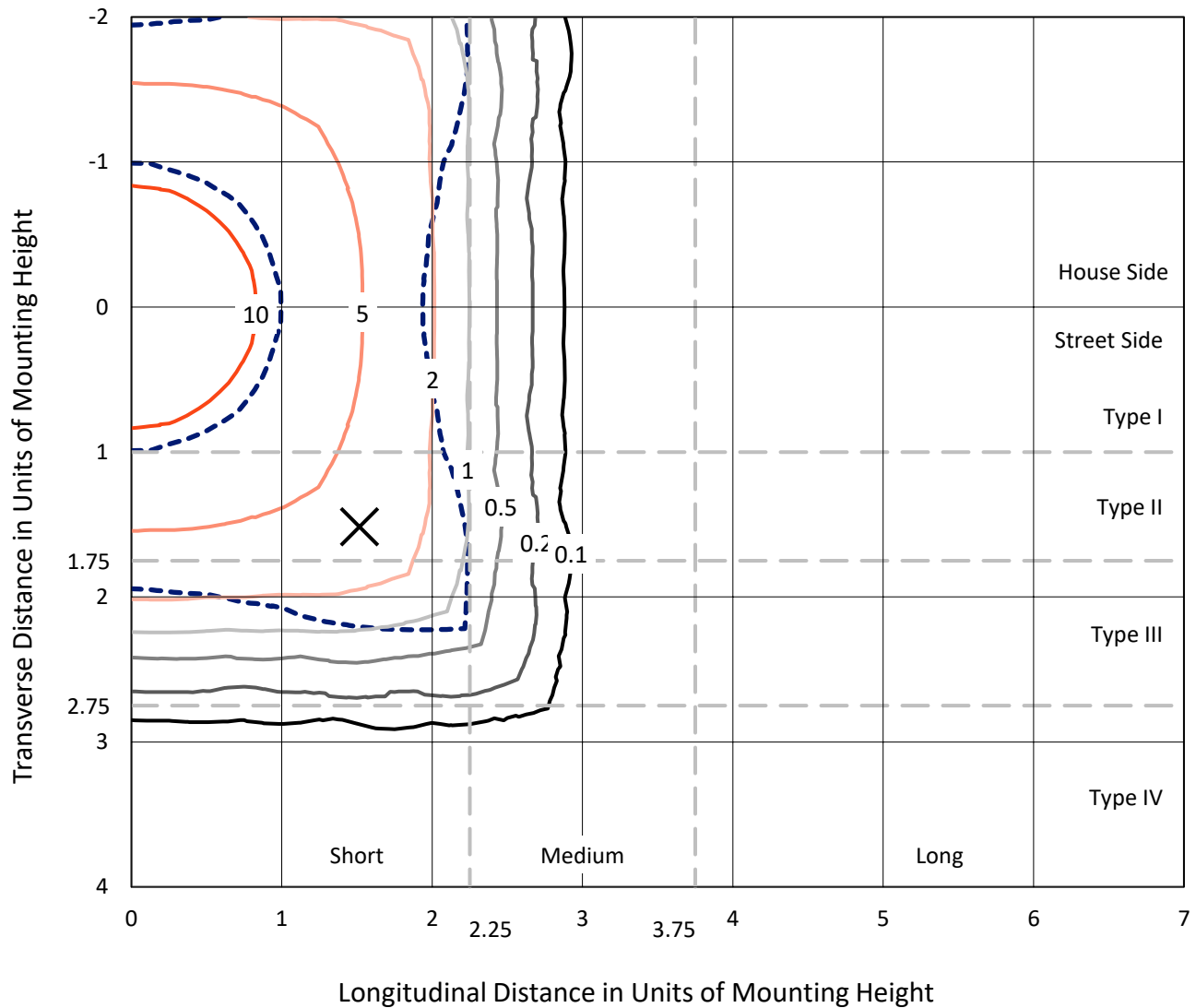


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

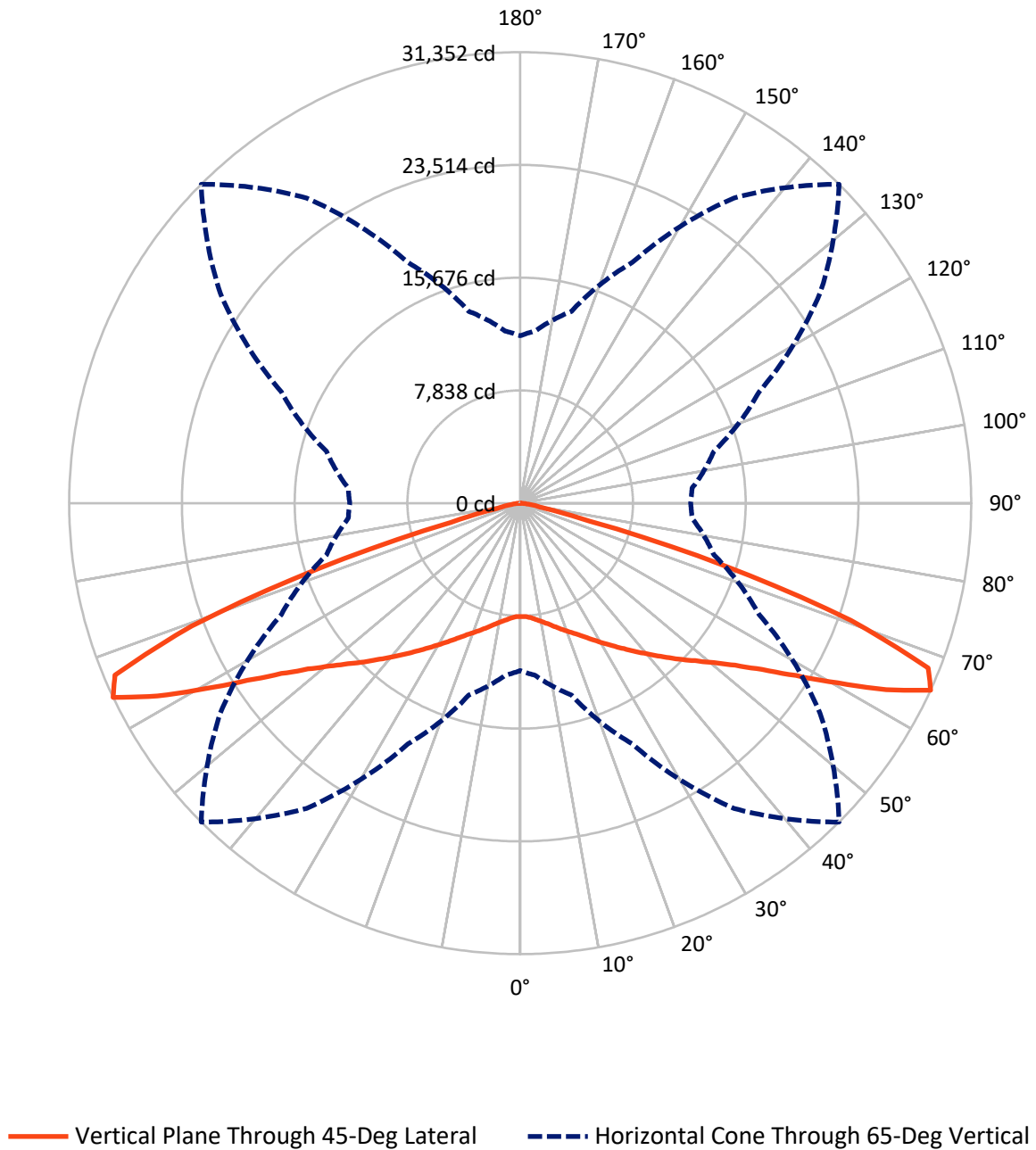


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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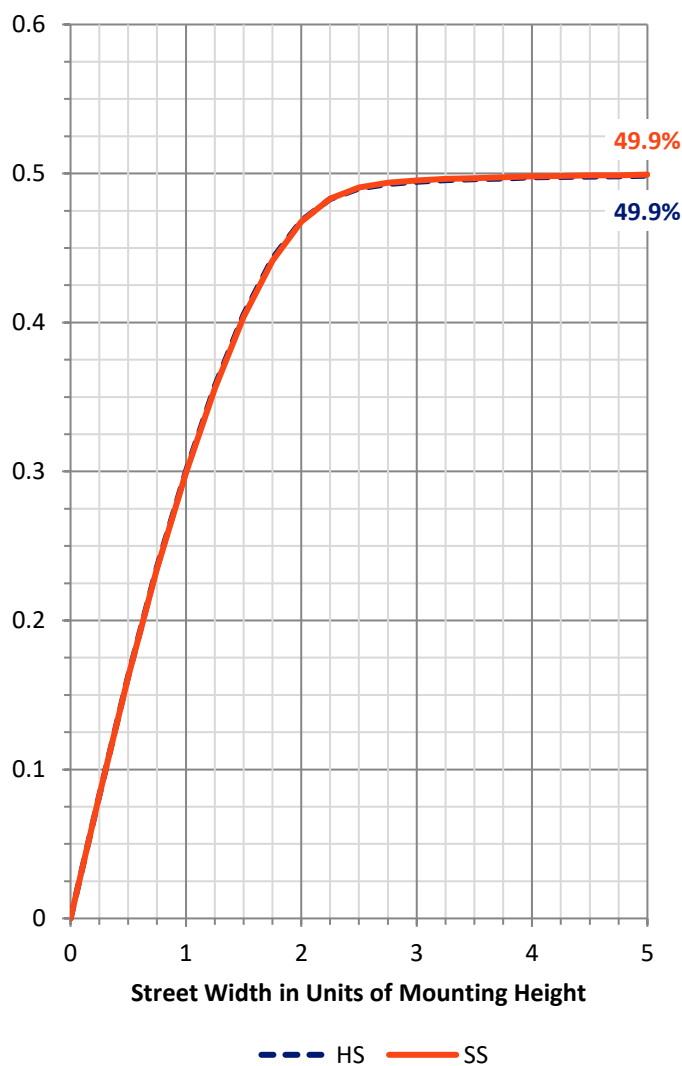
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33150.0	0.0	33150.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33150.0	0.0	33150.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66300.0	0.0	66300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.7	1.2
10°-20°	2541.0	3.8
20°-30°	4797.6	7.2
30°-40°	7856.0	11.8
40°-50°	12180.7	18.4
50°-60°	17993.5	27.1
60°-70°	17128.1	25.8
70°-80°	2763.9	4.2
80°-90°	260.5	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°	66300.0	100.0
0°-180°	66300.0	100.0

Coefficient of Utilization



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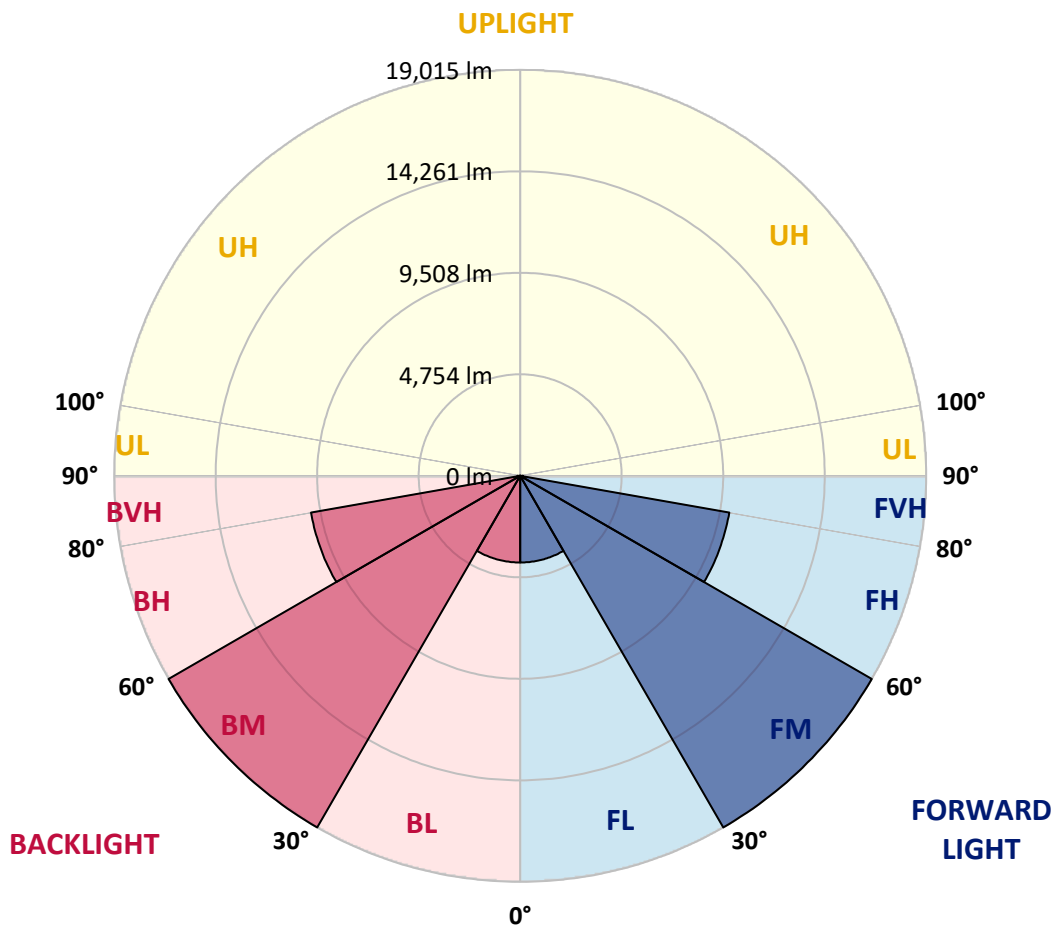
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4058.7	6.1			
FM	(30°-60°)	19015.1	28.7			
FH	(60°-80°)	9946.0	15.0			G4/12000
FVH	(80°-90°)	130.3	0.2			G2/225
BL	(0°-30°)	4058.7	6.1	B4/5000		
BM	(30°-60°)	19015.1	28.7	B5		
BH	(60°-80°)	9946.0	15.0	B5		G4/12000
BVH	(80°-90°)	130.3	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7890.4	7890.4	7890.4	7890.4	7890.4	7890.4	7890.4	7890.4	7890.4	7890.4	7890.4
2.5°	7943.6	7917.0	7936.9	7920.3	7907.0	7893.7	7900.3	7923.6	7933.6	7936.9	7936.9
5°	8050.0	8026.7	8036.7	8036.7	8013.4	8006.8	8010.1	8026.7	8046.7	8046.7	8046.7
7.5°	8223.0	8199.7	8223.0	8209.7	8189.7	8183.1	8179.8	8193.1	8223.0	8223.0	8213.0
10°	8432.6	8406.0	8419.3	8412.6	8389.3	8379.4	8376.0	8396.0	8422.6	8419.3	8412.6
12.5°	8662.1	8632.2	8648.8	8628.8	8622.2	8612.2	8612.2	8608.9	8625.5	8612.2	8618.9
15°	8918.2	8898.3	8904.9	8891.6	8901.6	8895.0	8868.3	8855.0	8861.7	8841.7	8845.1
17.5°	9220.9	9174.4	9197.7	9191.0	9191.0	9204.3	9161.1	9144.4	9157.7	9137.8	9154.4
20°	9570.2	9523.7	9533.6	9520.3	9503.7	9517.0	9463.8	9477.1	9487.1	9473.8	9503.7
22.5°	9952.8	9892.9	9889.6	9896.2	9859.6	9863.0	9826.4	9859.6	9879.6	9843.0	9879.6
25°	10345.3	10282.1	10325.3	10308.7	10262.1	10272.1	10245.5	10278.8	10295.4	10248.8	10302.0
27.5°	10761.1	10717.9	10757.8	10767.8	10711.2	10751.1	10711.2	10741.1	10757.8	10687.9	10741.1
30°	11246.8	11203.5	11240.1	11266.7	11200.2	11263.4	11230.1	11250.1	11253.4	11170.3	11220.1
32.5°	11775.7	11709.1	11802.3	11815.6	11742.4	11818.9	11775.7	11802.3	11818.9	11705.8	11782.3
35°	12421.0	12337.8	12444.3	12427.7	12364.5	12427.7	12387.7	12427.7	12467.6	12331.2	12414.3
37.5°	13116.2	13029.7	13142.8	13112.9	13053.0	13096.3	13073.0	13099.6	13162.8	13016.4	13106.3
40°	13881.3	13774.9	13927.9	13874.7	13818.1	13811.5	13824.8	13841.4	13924.6	13761.6	13814.8
42.5°	14699.6	14586.5	14816.1	14732.9	14653.1	14599.8	14643.1	14676.3	14756.2	14573.2	14669.7
45°	15634.4	15504.6	15804.0	15704.2	15577.8	15468.0	15537.9	15587.8	15704.2	15484.7	15597.8
47.5°	16665.6	16519.2	16838.5	16808.6	16602.4	16362.9	16522.5	16665.6	16752.1	16485.9	16575.8
50°	17673.5	17560.4	17979.5	18016.1	17763.3	17427.3	17650.2	17866.4	17889.7	17540.4	17583.7
52.5°	18618.2	18505.1	19113.8	19343.4	19117.2	18718.0	18954.2	19173.7	18997.4	18545.0	18558.3
55°	19373.3	19280.2	20055.2	20647.3	20723.8	20394.5	20534.2	20527.6	19948.8	19253.6	19276.8
57.5°	19556.3	19543.0	20520.9	21775.0	22573.4	22613.3	22337.2	21632.0	20384.5	19449.8	19389.9
60°	18724.6	18807.8	20151.7	22363.8	24492.7	25377.6	24183.4	22170.9	19888.9	18591.6	18438.6
62.5°	16236.5	16456.0	18076.0	21645.3	26042.9	28557.7	25663.6	21352.5	17853.1	16159.9	16060.1
65°	11636.0	12018.5	13808.1	18471.8	25903.1	31351.9	25450.7	18322.1	13941.2	11988.6	11845.5
67.5°	5279.1	5668.3	7188.5	12647.2	22516.8	30593.5	22463.6	12780.3	7547.7	5688.2	5605.1
70°	1912.7	1979.2	2468.2	5062.9	14390.3	24376.3	15005.7	5099.5	2624.6	2109.0	2082.4
72.5°	1157.6	1167.6	1270.7	1812.9	4999.7	14799.4	5212.6	1872.8	1297.3	1151.0	1170.9
75°	735.1	728.5	904.8	1107.7	1773.0	4993.0	1859.5	1107.7	901.5	821.6	828.3
77.5°	528.9	545.5	648.7	828.3	1117.7	1693.2	1097.7	791.7	648.7	532.2	542.2
80°	395.8	405.8	472.4	645.3	785.0	1054.5	698.6	585.5	489.0	332.6	342.6
82.5°	286.1	286.1	309.4	469.0	479.0	568.8	379.2	412.5	322.7	236.2	236.2
85°	169.6	166.3	192.9	279.4	249.5	209.6	173.0	252.8	202.9	146.4	143.0
87.5°	59.9	63.2	59.9	79.8	66.5	56.5	53.2	69.9	56.5	49.9	46.6
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)