

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: P955919

Luminaire Tested: **GALN-SB8D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955919
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-SB8D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 79977 lumens
Efficiency: N/A
Efficacy: 136.7 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): 584.9
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

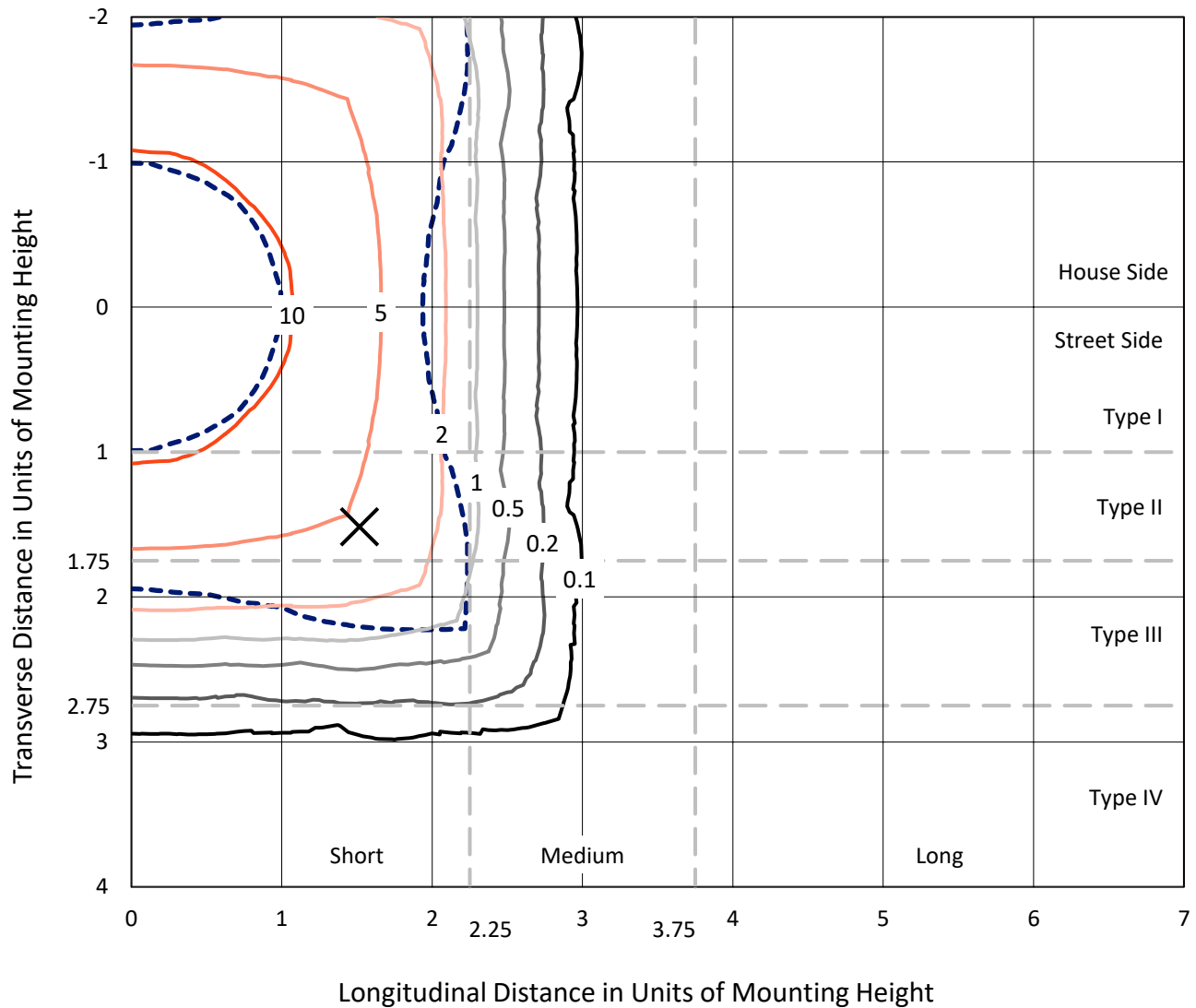


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

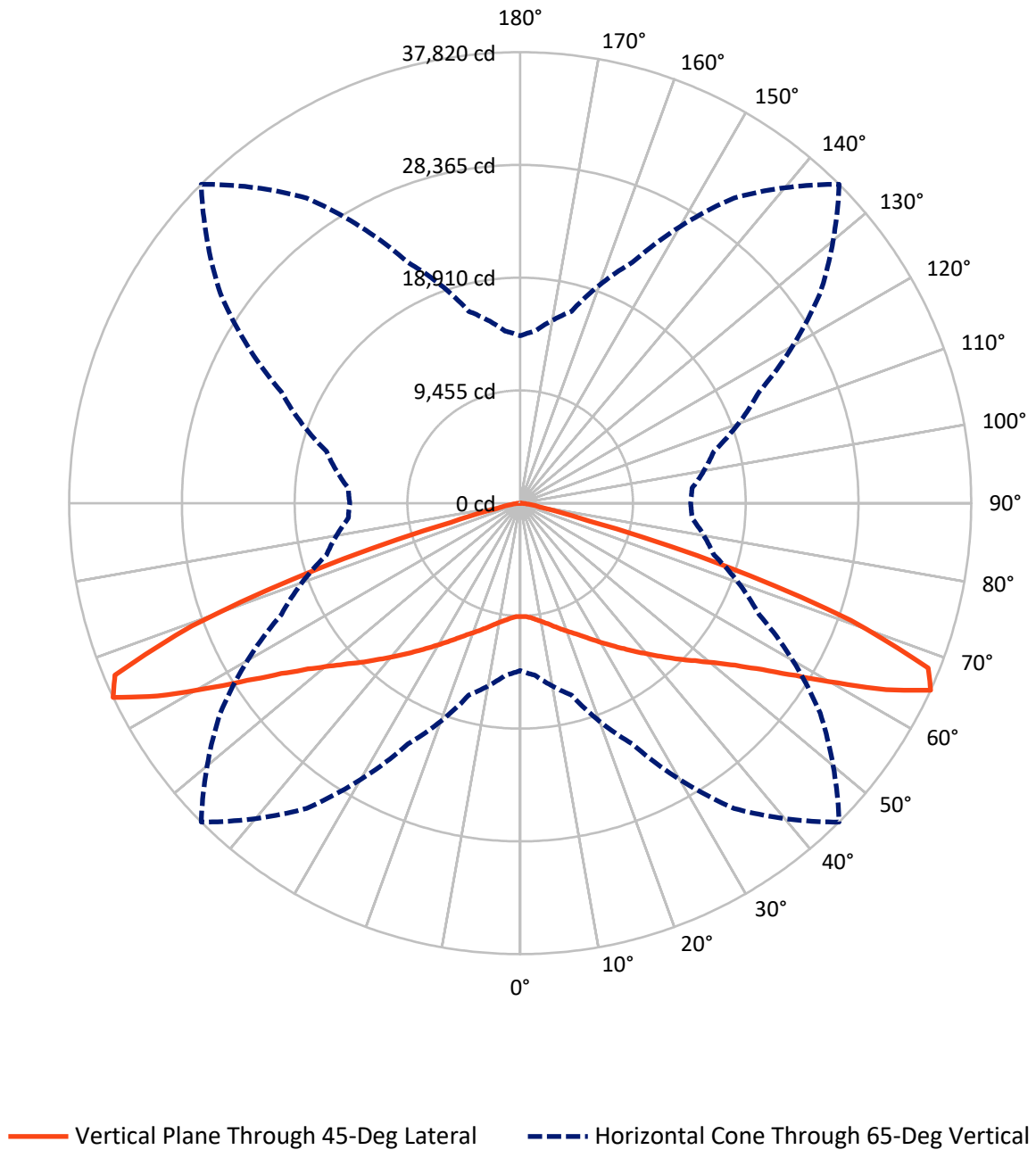


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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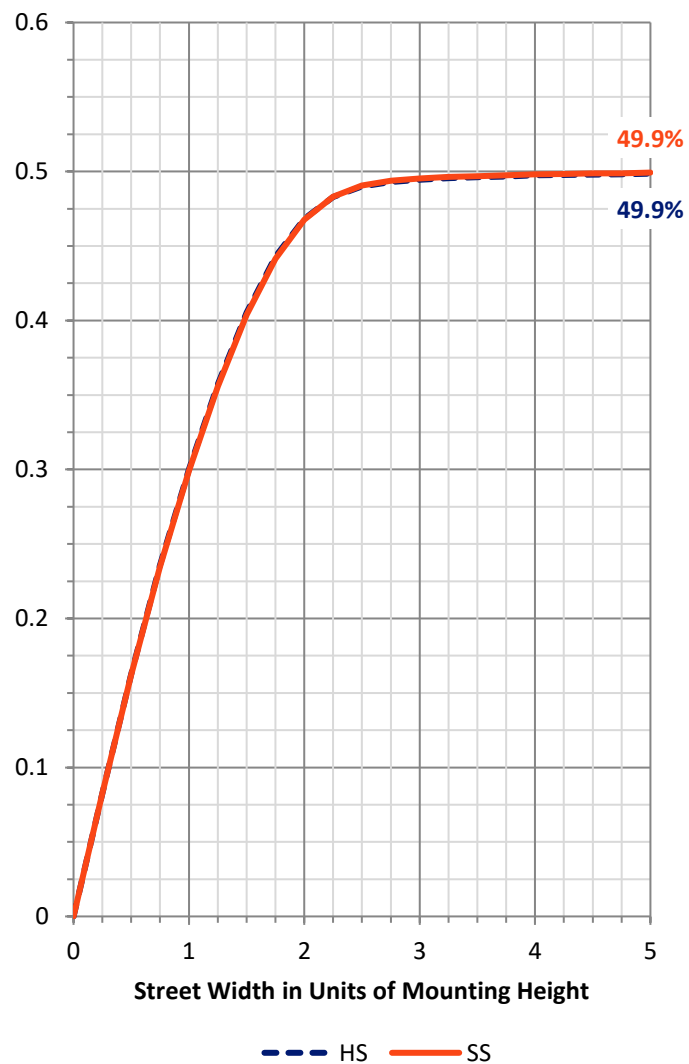
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39988.5	0.0	39988.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	39988.5	0.0	39988.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	79977.0	0.0	79977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.3	1.2
10°-20°	3065.1	3.8
20°-30°	5787.3	7.2
30°-40°	9476.6	11.8
40°-50°	14693.5	18.4
50°-60°	21705.4	27.1
60°-70°	20661.5	25.8
70°-80°	3334.0	4.2
80°-90°	314.3	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°	79977.0	100.0
0°-180°	79977.0	100.0

Coefficient of Utilization



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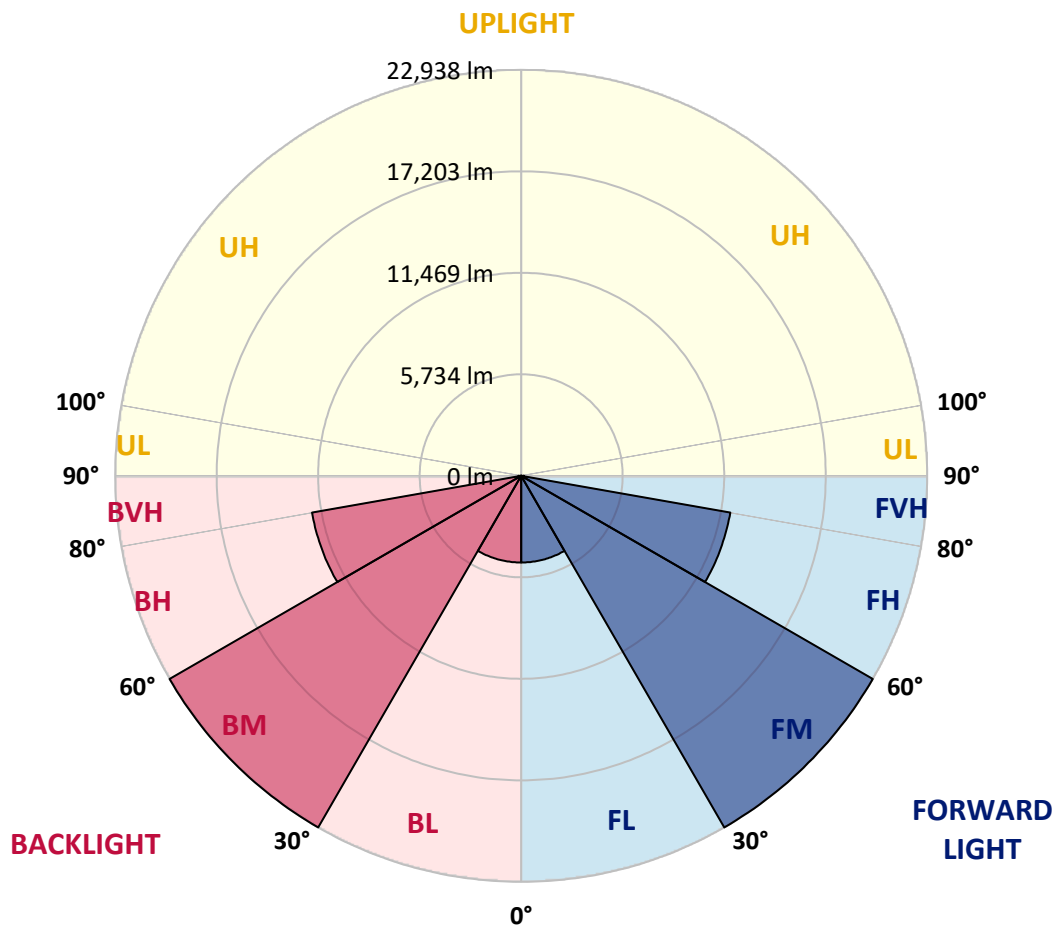
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4895.9	6.1			
FM	(30°-60°)	22937.7	28.7			
FH	(60°-80°)	11997.8	15.0			G4/12000
FVH	(80°-90°)	157.1	0.2			G2/225
BL	(0°-30°)	4895.9	6.1	B4/5000		
BM	(30°-60°)	22937.7	28.7	B5		
BH	(60°-80°)	11997.8	15.0	B5		G4/12000
BVH	(80°-90°)	157.1	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°	9518.1	9518.1	9518.1	9518.1	9518.1	9518.1	9518.1	9518.1	9518.1	9518.1	9518.1
2.5°	9582.3	9550.2	9574.2	9554.2	9538.1	9522.1	9530.1	9558.2	9570.2	9574.2	9574.2
5°	9710.7	9682.6	9694.6	9694.6	9666.5	9658.5	9662.5	9682.6	9706.7	9706.7	9706.7
7.5°	9919.3	9891.2	9919.3	9903.3	9879.2	9871.2	9867.2	9883.2	9919.3	9919.3	9907.3
10°	10172.1	10140.0	10156.1	10148.1	10120.0	10107.9	10103.9	10128.0	10160.1	10156.1	10148.1
12.5°	10449.0	10412.9	10433.0	10408.9	10400.9	10388.8	10388.8	10384.8	10404.9	10388.8	10396.8
15°	10758.0	10733.9	10741.9	10725.9	10737.9	10729.9	10697.8	10681.7	10689.8	10665.7	10669.7
17.5°	11123.1	11067.0	11095.0	11087.0	11087.0	11103.1	11050.9	11030.8	11046.9	11022.8	11042.9
20°	11544.5	11488.3	11500.3	11484.3	11464.2	11480.3	11416.1	11432.1	11444.1	11428.1	11464.2
22.5°	12005.9	11933.7	11929.7	11937.7	11893.6	11897.6	11853.4	11893.6	11917.6	11873.5	11917.6
25°	12479.4	12403.2	12455.3	12435.3	12379.1	12391.1	12359.0	12399.2	12419.2	12363.0	12427.3
27.5°	12981.0	12928.8	12977.0	12989.0	12920.8	12969.0	12920.8	12956.9	12977.0	12892.7	12956.9
30°	13566.9	13514.7	13558.8	13590.9	13510.7	13586.9	13546.8	13570.9	13574.9	13474.6	13534.7
32.5°	14204.9	14124.6	14237.0	14253.0	14164.7	14257.0	14204.9	14237.0	14257.0	14120.6	14212.9
35°	14983.3	14883.0	15011.4	14991.4	14915.1	14991.4	14943.2	14991.4	15039.5	14875.0	14975.3
37.5°	15822.0	15717.6	15854.1	15818.0	15745.7	15797.9	15769.8	15801.9	15878.2	15701.6	15809.9
40°	16744.9	16616.5	16801.1	16736.9	16668.6	16660.6	16676.7	16696.7	16797.1	16600.4	16664.6
42.5°	17732.0	17595.6	17872.5	17772.1	17675.8	17611.6	17663.8	17703.9	17800.2	17579.5	17695.9
45°	18859.6	18703.1	19064.2	18943.8	18791.4	18658.9	18743.2	18803.4	18943.8	18679.0	18815.4
47.5°	20103.5	19926.9	20312.2	20276.0	20027.3	19738.3	19931.0	20103.5	20207.8	19886.8	19995.2
50°	21319.3	21182.9	21688.5	21732.6	21427.7	21022.4	21291.2	21552.1	21580.2	21158.8	21211.0
52.5°	22458.9	22322.5	23056.8	23333.7	23060.8	22579.3	22864.2	23129.1	22916.4	22370.7	22386.7
55°	23369.8	23257.5	24192.4	24906.7	24999.0	24601.7	24770.2	24762.2	24064.0	23225.4	23253.4
57.5°	23590.5	23574.5	24754.2	26267.0	27230.0	27278.2	26945.1	26094.4	24589.7	23462.1	23389.9
60°	22587.3	22687.7	24308.8	26977.2	29545.3	30612.7	29172.1	26744.5	23991.8	22426.8	22242.3
62.5°	19585.9	19850.7	21804.9	26110.5	31415.2	34448.8	30957.8	25757.4	21536.0	19493.6	19373.2
65°	14036.3	14497.8	16656.6	22282.4	31246.7	37819.5	30701.0	22101.8	16817.1	14461.7	14289.1
67.5°	6368.1	6837.6	8671.4	15256.2	27161.8	36904.6	27097.6	15416.7	9104.8	6861.7	6761.4
70°	2307.3	2387.5	2977.4	6107.3	17358.8	29404.9	18101.2	6151.4	3166.0	2544.0	2511.9
72.5°	1396.4	1408.4	1532.8	2186.9	6031.0	17852.4	6287.9	2259.1	1564.9	1388.4	1412.5
75°	886.8	878.8	1091.4	1336.2	2138.8	6023.0	2243.1	1336.2	1087.4	991.1	999.2
77.5°	638.0	658.1	782.5	999.2	1348.3	2042.5	1324.2	955.0	782.5	642.0	654.1
80°	477.5	489.5	569.8	778.5	947.0	1272.0	842.7	706.2	589.9	401.3	413.3
82.5°	345.1	345.1	373.2	565.8	577.8	686.2	457.4	497.6	389.2	284.9	284.9
85°	204.6	200.6	232.7	337.1	301.0	252.8	208.7	305.0	244.8	176.6	172.5
87.5°	72.2	76.2	72.2	96.3	80.3	68.2	64.2	84.3	68.2	60.2	56.2
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)