

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: P943310

Luminaire Tested: **GALN-SB7D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943310
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-SB7D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67897 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 512.8
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



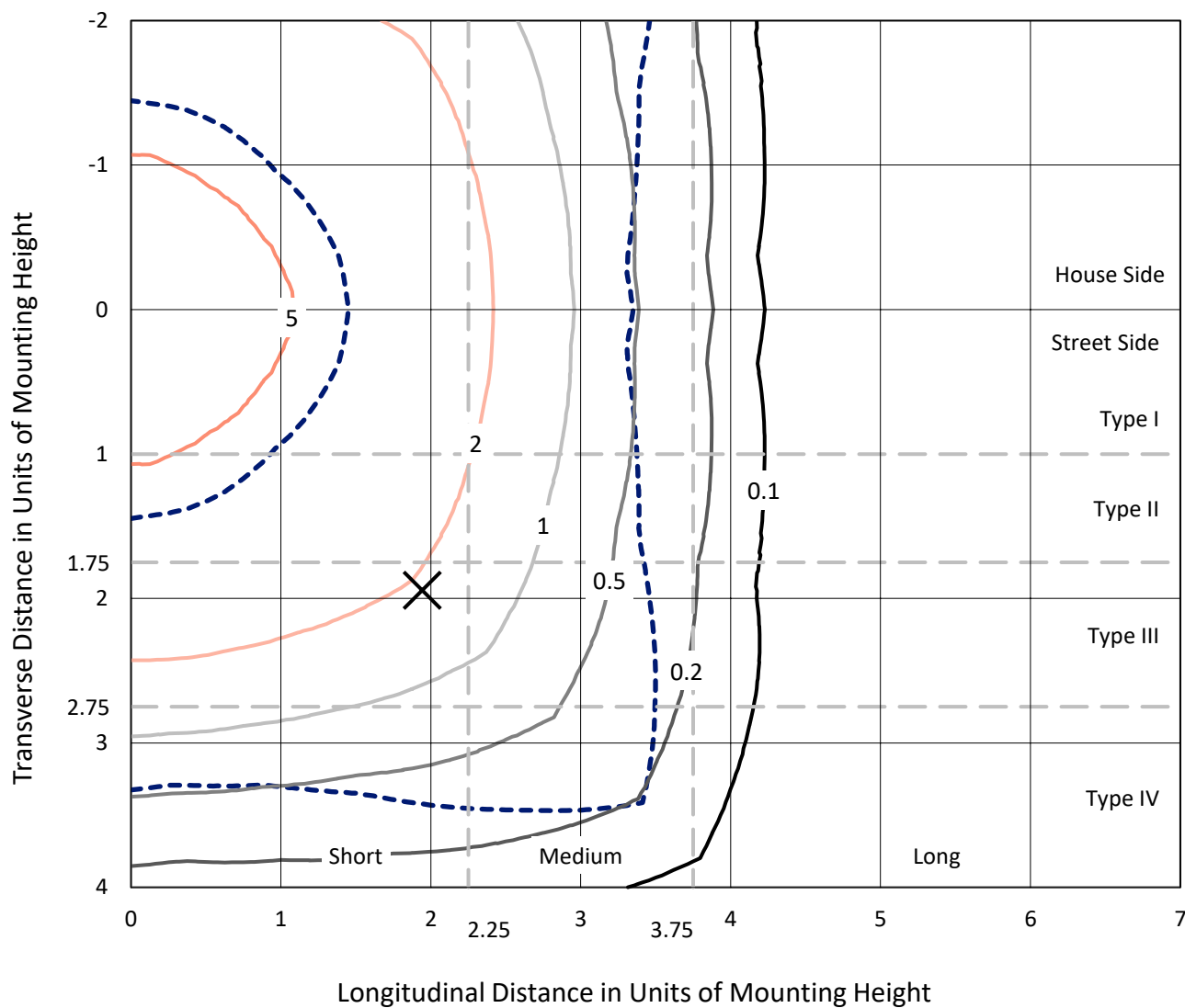
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Iso-Footcandle Lines of Horizontal Illumination

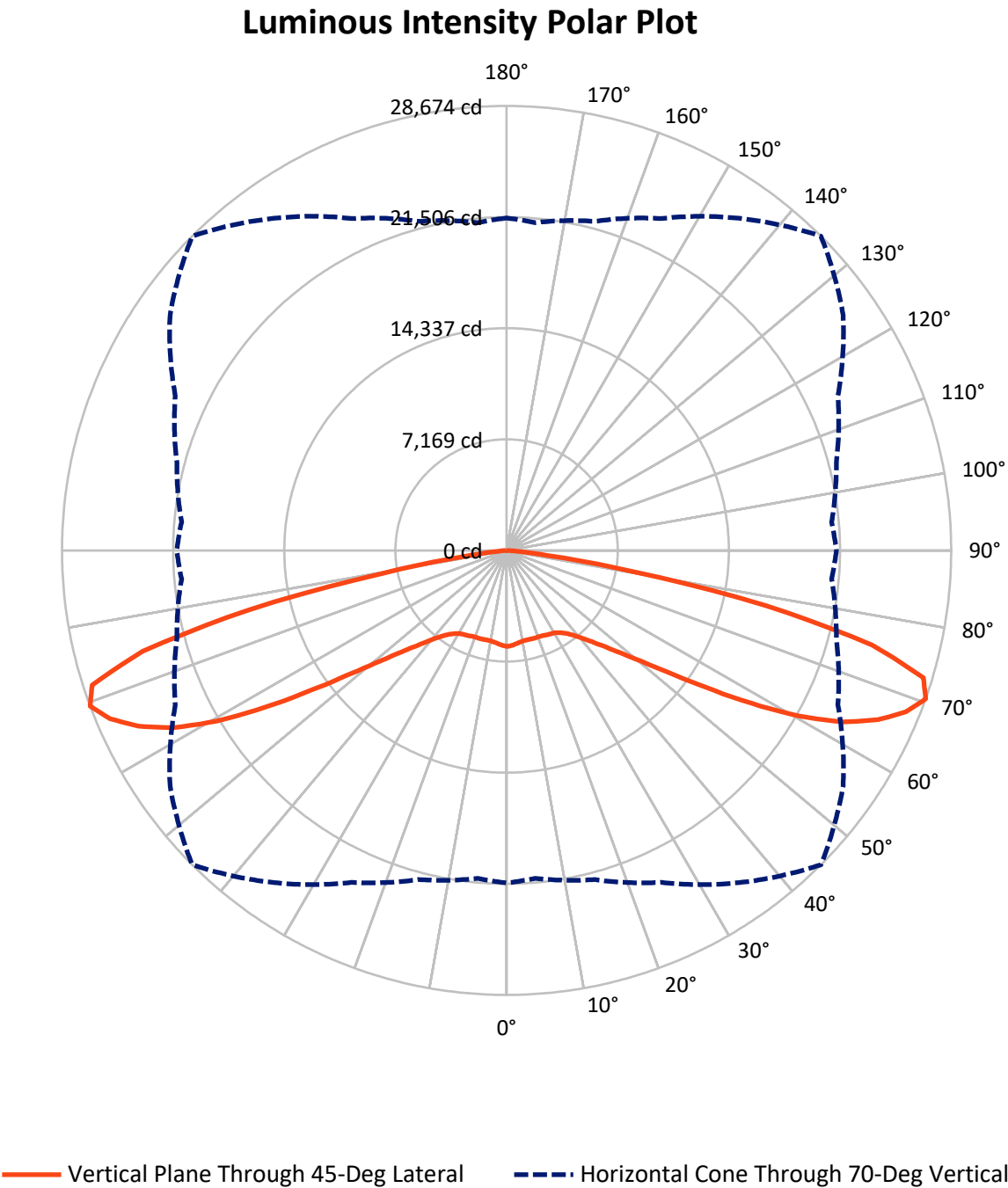
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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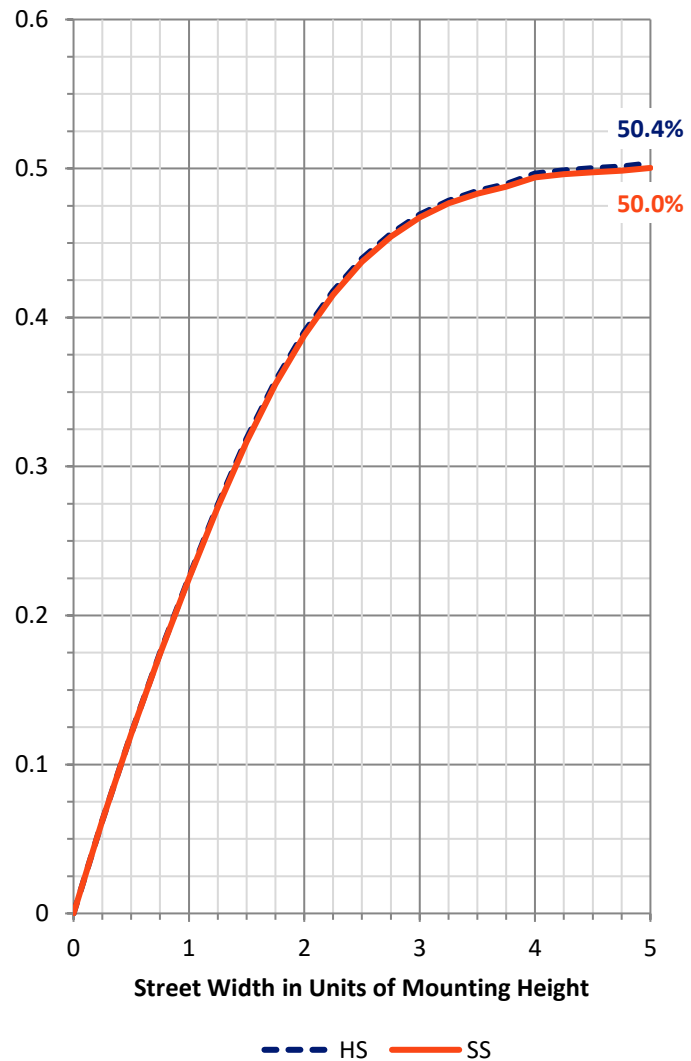
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33948.5	0.0	33948.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33948.5	0.0	33948.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67897.0	0.0	67897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.2	0.8
10°-20°	1691.7	2.5
20°-30°	2815.3	4.1
30°-40°	4257.5	6.3
40°-50°	7075.0	10.4
50°-60°	13350.2	19.7
60°-70°	22542.4	33.2
70°-80°	14812.7	21.8
80°-90°	776.0	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°	67897.0	100.0
0°-180°	67897.0	100.0

Coefficient of Utilization



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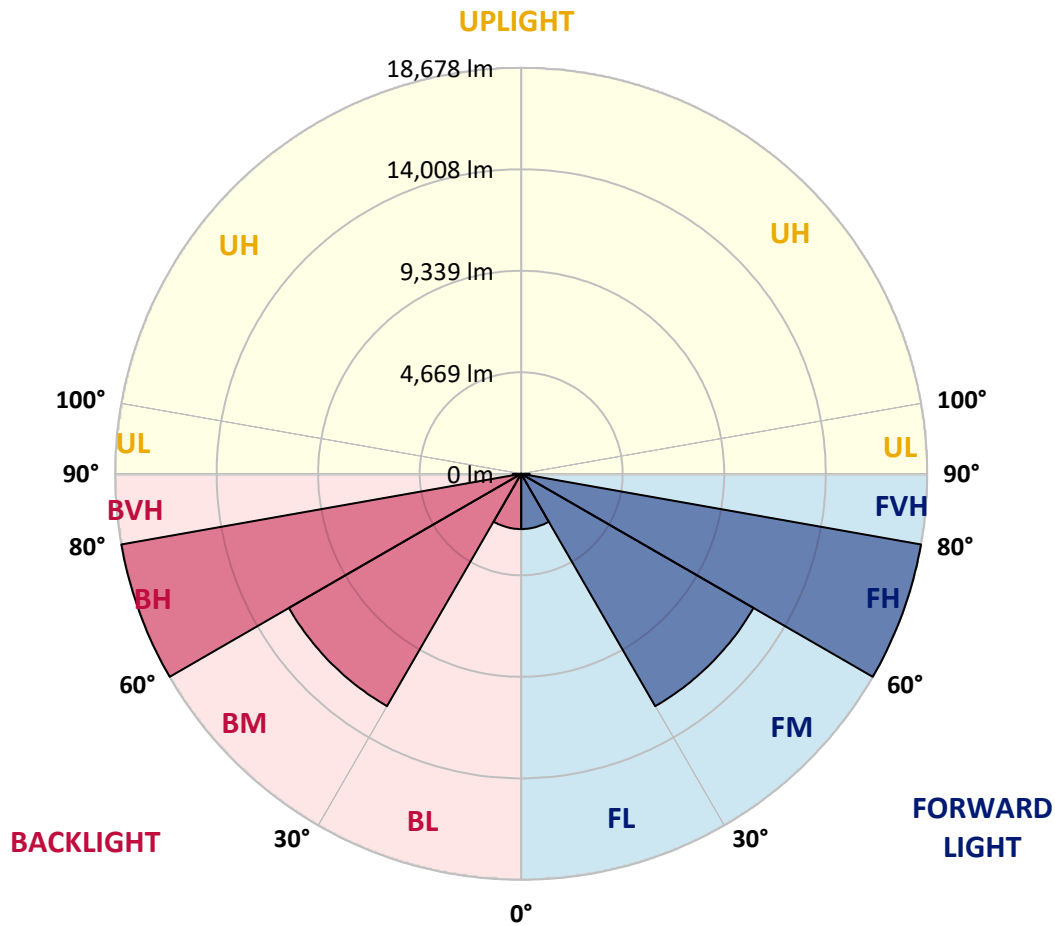
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2541.6	3.7			
FM	(30°-60°)	12341.4	18.2			
FH	(60°-80°)	18677.6	27.5			G5
FVH	(80°-90°)	388.0	0.6			G3/500
BL	(0°-30°)	2541.6	3.7	B4/5000		
BM	(30°-60°)	12341.4	18.2	B5		
BH	(60°-80°)	18677.6	27.5	B5		G5
BVH	(80°-90°)	388.0	0.6			G3/500
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°	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6
2.5°	6154.8	6172.4	6165.3	6151.2	6151.2	6140.6	6151.2	6158.3	6168.9	6175.9	6172.4
5°	6073.6	6087.7	6084.2	6073.6	6077.1	6066.5	6073.6	6084.2	6091.2	6094.8	6094.8
7.5°	6003.0	6017.1	6010.1	5992.4	5992.4	5981.8	5985.4	5995.9	6006.5	6010.1	6010.1
10°	5985.4	5999.5	5978.3	5950.1	5939.5	5925.4	5928.9	5939.5	5960.7	5971.2	5971.2
12.5°	5992.4	6003.0	5981.8	5939.5	5928.9	5914.8	5914.8	5925.4	5953.6	5967.7	5971.2
15°	6013.6	6024.2	5992.4	5946.5	5935.9	5925.4	5921.8	5935.9	5967.7	5992.4	5995.9
17.5°	6052.4	6063.0	6013.6	5950.1	5935.9	5939.5	5935.9	5946.5	5995.9	6041.8	6041.8
20°	6087.7	6094.8	6027.7	5950.1	5935.9	5939.5	5935.9	5957.1	6020.6	6084.2	6087.7
22.5°	6098.3	6105.3	6041.8	5974.8	5964.2	5967.7	5964.2	5985.4	6045.4	6108.9	6108.9
25°	6101.8	6112.4	6063.0	6010.1	6027.7	6034.8	6027.7	6031.2	6077.1	6133.6	6130.0
27.5°	6154.8	6168.9	6123.0	6077.1	6087.7	6084.2	6094.8	6105.3	6140.6	6197.1	6183.0
30°	6264.2	6274.7	6235.9	6190.0	6183.0	6158.3	6190.0	6225.3	6264.2	6313.6	6303.0
32.5°	6444.1	6465.3	6415.9	6366.5	6334.7	6320.6	6345.3	6405.3	6458.3	6511.2	6490.0
35°	6744.1	6758.2	6712.4	6620.6	6564.1	6564.1	6585.3	6662.9	6747.6	6814.7	6790.0
37.5°	7167.6	7185.3	7104.1	6994.7	6910.0	6910.0	6938.2	7019.4	7146.4	7241.7	7206.4
40°	7682.9	7707.6	7605.2	7492.3	7411.1	7397.0	7432.3	7524.0	7644.0	7764.0	7725.2
42.5°	8304.0	8332.2	8198.1	8099.3	8035.8	8035.8	8053.4	8138.1	8247.5	8395.7	8385.1
45°	9098.0	9147.4	8963.9	8865.1	8805.1	8819.2	8829.8	8903.9	9002.7	9172.1	9165.1
47.5°	10043.8	10093.2	9899.1	9796.8	9786.2	9853.3	9810.9	9863.8	9916.8	10110.9	10054.4
50°	11116.7	11201.4	11067.3	11060.2	11081.4	11204.9	11106.1	11134.3	11074.3	11197.8	11123.7
52.5°	12429.5	12553.0	12528.3	12570.7	12807.1	13061.2	12835.3	12736.5	12510.7	12549.5	12418.9
55°	14021.1	14208.2	14243.5	14497.5	15034.0	15552.8	15072.8	14674.0	14194.0	14105.8	13968.2
57.5°	15831.6	15979.8	16149.2	16667.9	17670.2	18591.3	17670.2	16787.9	16032.7	15852.7	15725.7
60°	17779.6	17963.1	18125.5	18891.3	20380.6	21675.7	20352.3	18951.3	17952.5	17709.0	17497.3
62.5°	19872.4	20108.8	20221.8	21072.3	22808.6	24354.3	22833.3	21135.8	20027.7	19766.5	19554.8
65°	21880.4	22074.5	22201.6	23108.6	24767.2	26316.5	24880.2	23207.4	22067.5	21725.1	21555.8
67.5°	22815.6	22921.5	23232.1	24259.0	26009.5	27777.6	26305.9	24368.4	23094.4	22494.5	22501.6
70°	21446.4	21231.1	21979.2	23623.8	26157.7	28674.0	26496.5	23574.4	22014.5	21040.5	21273.4
72.5°	16572.7	16202.1	17500.8	20313.5	24463.7	28102.2	24633.1	20472.3	18309.0	16332.7	16823.2
75°	9016.9	8596.9	10389.7	13947.0	19508.9	24357.9	19957.1	14345.8	11568.4	8949.8	9532.1
77.5°	2544.5	2385.7	3832.6	6747.6	11734.3	17102.0	12186.0	6895.9	4545.5	2696.2	2996.2
80°	779.9	755.2	1023.4	2032.8	4983.1	8191.0	4789.0	2057.5	1302.2	822.3	868.2
82.5°	462.3	423.5	508.2	741.1	1270.5	2572.7	1235.2	772.9	621.1	416.4	451.7
85°	264.7	247.0	300.0	360.0	427.0	547.0	356.4	367.0	331.7	222.3	232.9
87.5°	109.4	98.8	116.5	112.9	98.8	127.0	95.3	112.9	134.1	88.2	81.2
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)