

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: P953777

Luminaire Tested: **GALN-SB7B-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953777
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-SB7B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38923 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 256.7
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

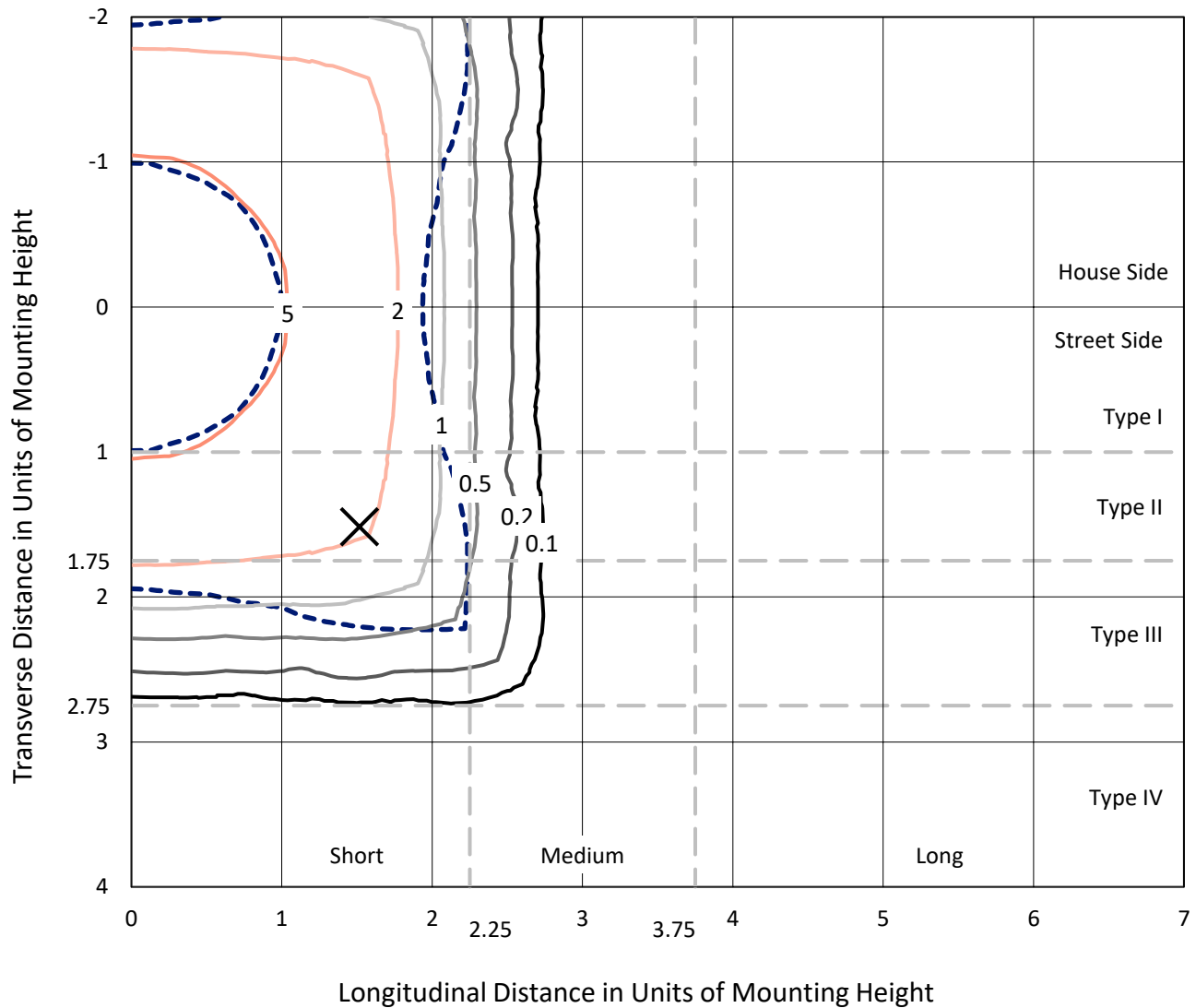


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

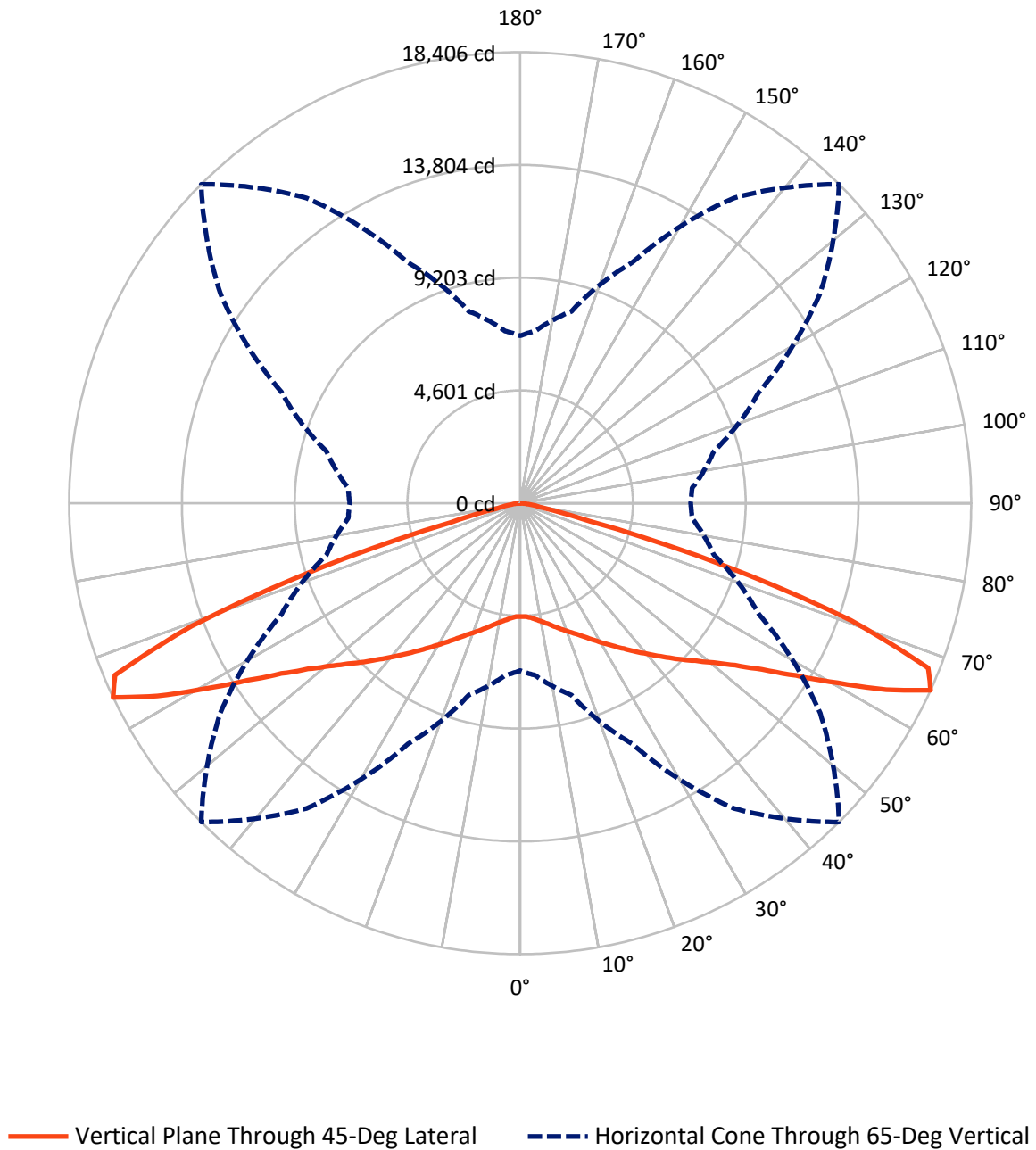


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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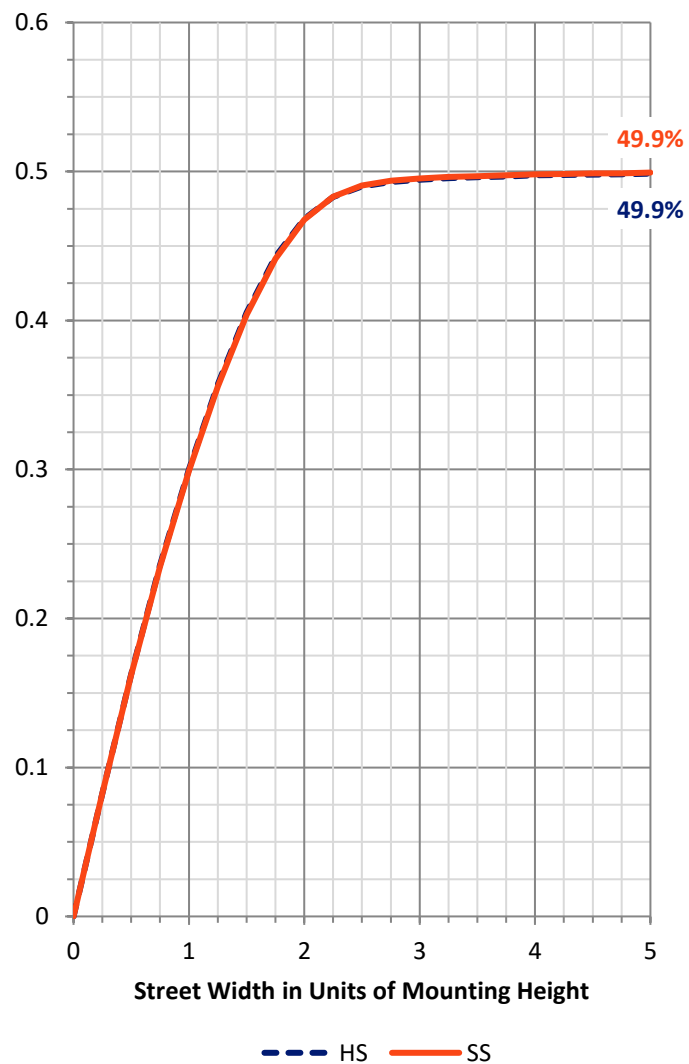
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19461.5	0.0	19461.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19461.5	0.0	19461.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38923.0	0.0	38923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.2	1.2
10°-20°	1491.7	3.8
20°-30°	2816.6	7.2
30°-40°	4612.0	11.8
40°-50°	7151.0	18.4
50°-60°	10563.5	27.1
60°-70°	10055.5	25.8
70°-80°	1622.6	4.2
80°-90°	152.9	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°	38923.0	100.0
0°-180°	38923.0	100.0

Coefficient of Utilization



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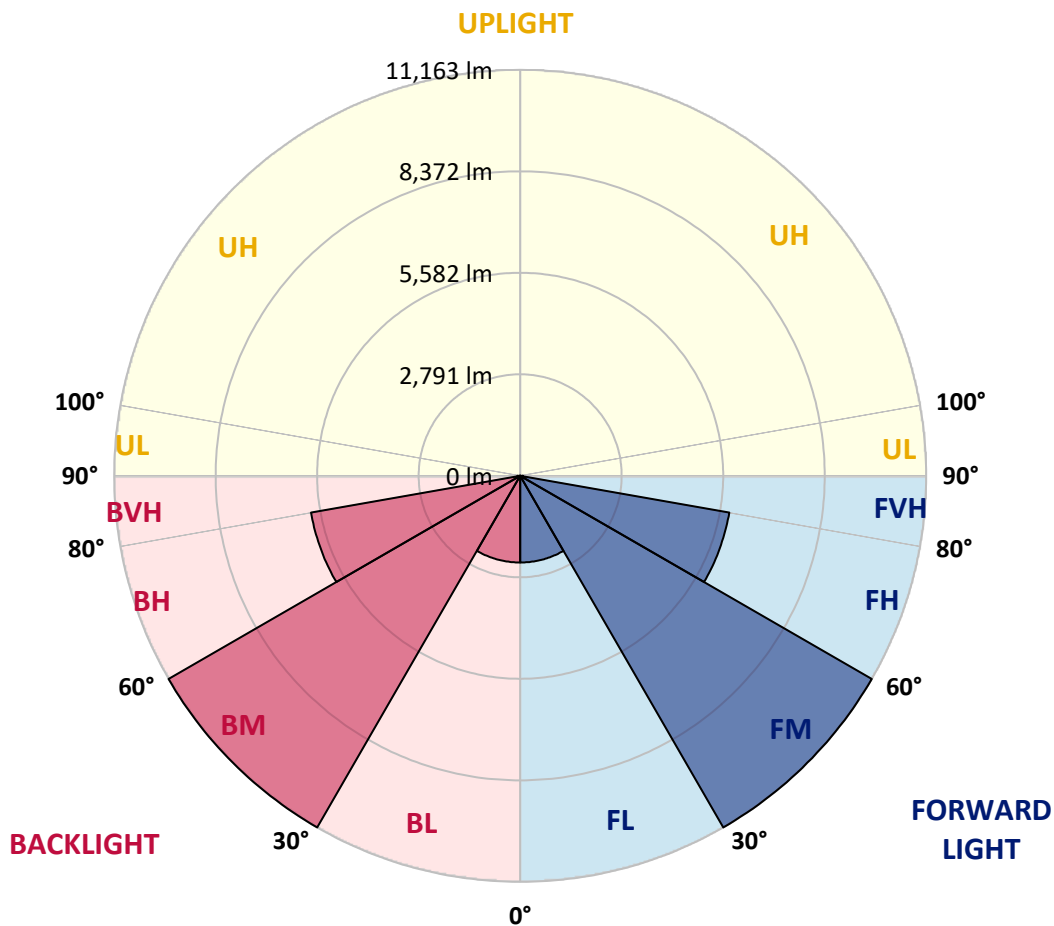
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2382.7	6.1			
FM	(30°-60°)	11163.3	28.7			
FH	(60°-80°)	5839.0	15.0			G3/7500
FVH	(80°-90°)	76.5	0.2			G1/100
BL	(0°-30°)	2382.7	6.1	B3/2500		
BM	(30°-60°)	11163.3	28.7	B5		
BH	(60°-80°)	5839.0	15.0	B5		G3/7500
BVH	(80°-90°)	76.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4632.2	4632.2	4632.2	4632.2	4632.2	4632.2	4632.2	4632.2	4632.2	4632.2	4632.2
2.5°	4663.5	4647.8	4659.6	4649.8	4642.0	4634.2	4638.1	4651.8	4657.6	4659.6	4659.6
5°	4726.0	4712.3	4718.2	4718.2	4704.5	4700.6	4702.5	4712.3	4724.0	4724.0	4724.0
7.5°	4827.5	4813.8	4827.5	4819.7	4808.0	4804.1	4802.1	4809.9	4827.5	4827.5	4821.7
10°	4950.5	4934.9	4942.7	4938.8	4925.2	4919.3	4917.3	4929.1	4944.7	4942.7	4938.8
12.5°	5085.3	5067.7	5077.5	5065.8	5061.9	5056.0	5056.0	5054.0	5063.8	5056.0	5059.9
15°	5235.7	5223.9	5227.9	5220.0	5225.9	5222.0	5206.4	5198.6	5202.5	5190.7	5192.7
17.5°	5413.4	5386.0	5399.7	5395.8	5395.8	5403.6	5378.2	5368.5	5376.3	5364.6	5374.3
20°	5618.4	5591.1	5596.9	5589.1	5579.4	5587.2	5555.9	5563.7	5569.6	5561.8	5579.4
22.5°	5843.0	5807.9	5805.9	5809.8	5788.3	5790.3	5768.8	5788.3	5800.0	5778.6	5800.0
25°	6073.5	6036.3	6061.7	6052.0	6024.6	6030.5	6014.9	6034.4	6044.2	6016.8	6048.1
27.5°	6317.6	6292.2	6315.6	6321.5	6288.3	6311.7	6288.3	6305.8	6315.6	6274.6	6305.8
30°	6602.7	6577.3	6598.8	6614.4	6575.3	6612.4	6592.9	6604.6	6606.6	6557.8	6587.1
32.5°	6913.2	6874.1	6928.8	6936.6	6893.7	6938.6	6913.2	6928.8	6938.6	6872.2	6917.1
35°	7292.0	7243.2	7305.7	7296.0	7258.8	7296.0	7272.5	7296.0	7319.4	7239.3	7288.1
37.5°	7700.2	7649.4	7715.8	7698.2	7663.1	7688.5	7674.8	7690.4	7727.5	7641.6	7694.3
40°	8149.4	8086.9	8176.7	8145.5	8112.3	8108.3	8116.2	8125.9	8174.7	8079.1	8110.3
42.5°	8629.8	8563.4	8698.1	8649.3	8602.4	8571.2	8596.6	8616.1	8663.0	8555.6	8612.2
45°	9178.5	9102.4	9278.1	9219.5	9145.3	9080.9	9121.9	9151.2	9219.5	9090.6	9157.0
47.5°	9783.9	9698.0	9885.5	9867.9	9746.8	9606.2	9699.9	9783.9	9834.7	9678.5	9731.2
50°	10375.6	10309.2	10555.3	10576.8	10428.4	10231.1	10362.0	10488.9	10502.6	10297.5	10322.9
52.5°	10930.3	10863.9	11221.2	11356.0	11223.2	10988.8	11127.5	11256.4	11152.9	10887.3	10895.1
55°	11373.6	11318.9	11773.9	12121.5	12166.4	11973.1	12055.1	12051.2	11711.4	11303.3	11316.9
57.5°	11481.0	11473.2	12047.3	12783.5	13252.2	13275.7	13113.6	12699.6	11967.2	11418.5	11383.3
60°	10992.7	11041.6	11830.5	13129.2	14379.0	14898.5	14197.4	13015.9	11676.3	10914.6	10824.8
62.5°	9532.0	9660.9	10611.9	12707.4	15289.1	16765.5	15066.5	12535.5	10481.1	9487.1	9428.5
65°	6831.2	7055.7	8106.4	10844.3	15207.1	18405.9	14941.5	10756.5	8184.5	7038.2	6954.2
67.5°	3099.2	3327.7	4220.2	7424.8	13219.0	17960.6	13187.8	7503.0	4431.1	3339.4	3290.6
70°	1122.9	1162.0	1449.0	2972.3	8448.1	14310.7	8809.4	2993.8	1540.8	1238.1	1222.5
72.5°	679.6	685.5	746.0	1064.3	2935.2	8688.4	3060.2	1099.5	761.6	675.7	687.4
75°	431.6	427.7	531.2	650.3	1040.9	2931.3	1091.7	650.3	529.2	482.4	486.3
77.5°	310.5	320.3	380.8	486.3	656.2	994.0	644.4	464.8	380.8	312.5	318.3
80°	232.4	238.3	277.3	378.9	460.9	619.1	410.1	343.7	287.1	195.3	201.1
82.5°	167.9	167.9	181.6	275.4	281.2	333.9	222.6	242.2	189.4	138.7	138.7
85°	99.6	97.6	113.3	164.0	146.5	123.0	101.5	148.4	119.1	85.9	84.0
87.5°	35.2	37.1	35.2	46.9	39.1	33.2	31.2	41.0	33.2	29.3	27.3
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)