

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: P941273

Luminaire Tested: **GALN-SB4D-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37422 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 293.6
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



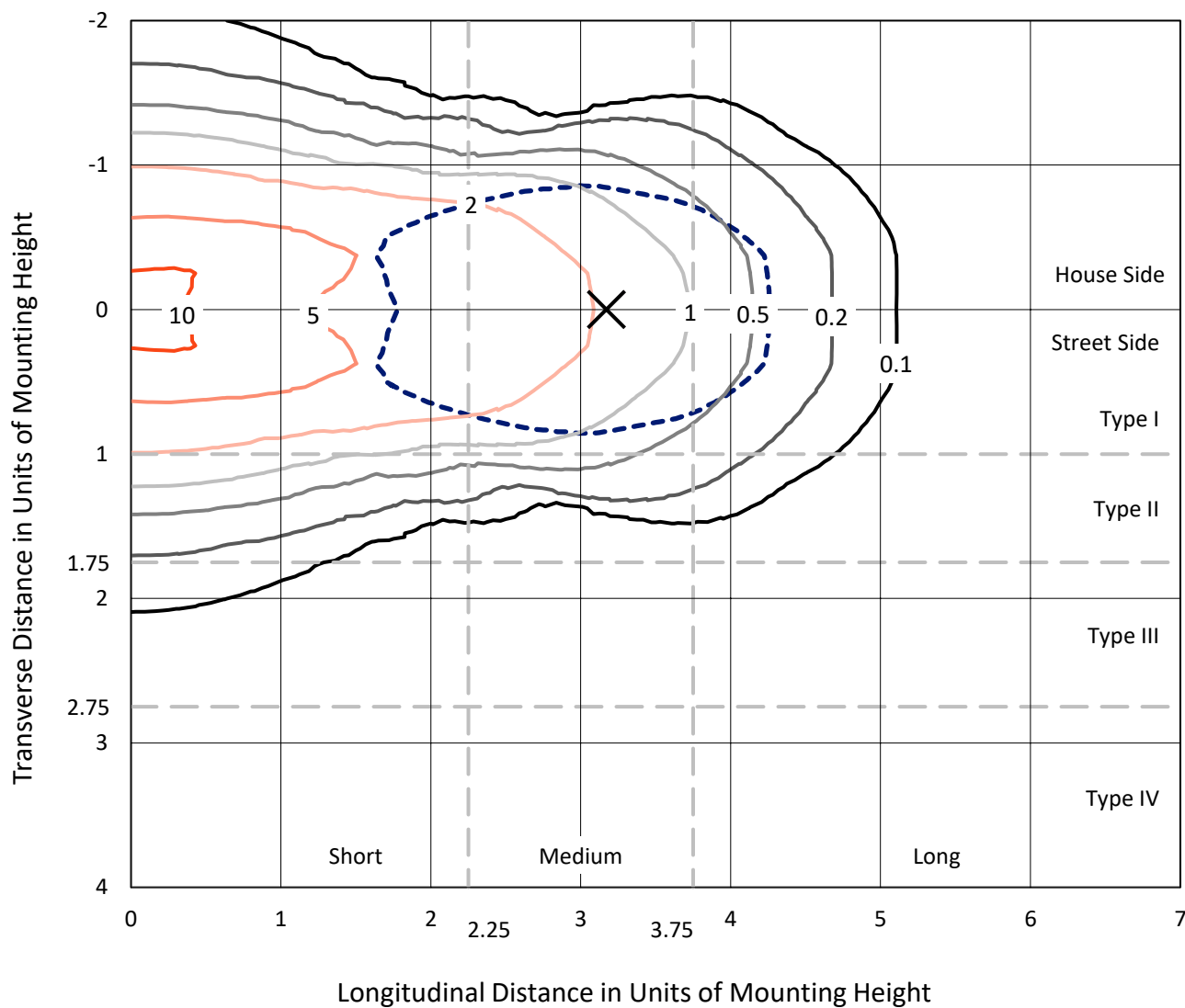
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Iso-Footcandle Lines of Horizontal Illumination

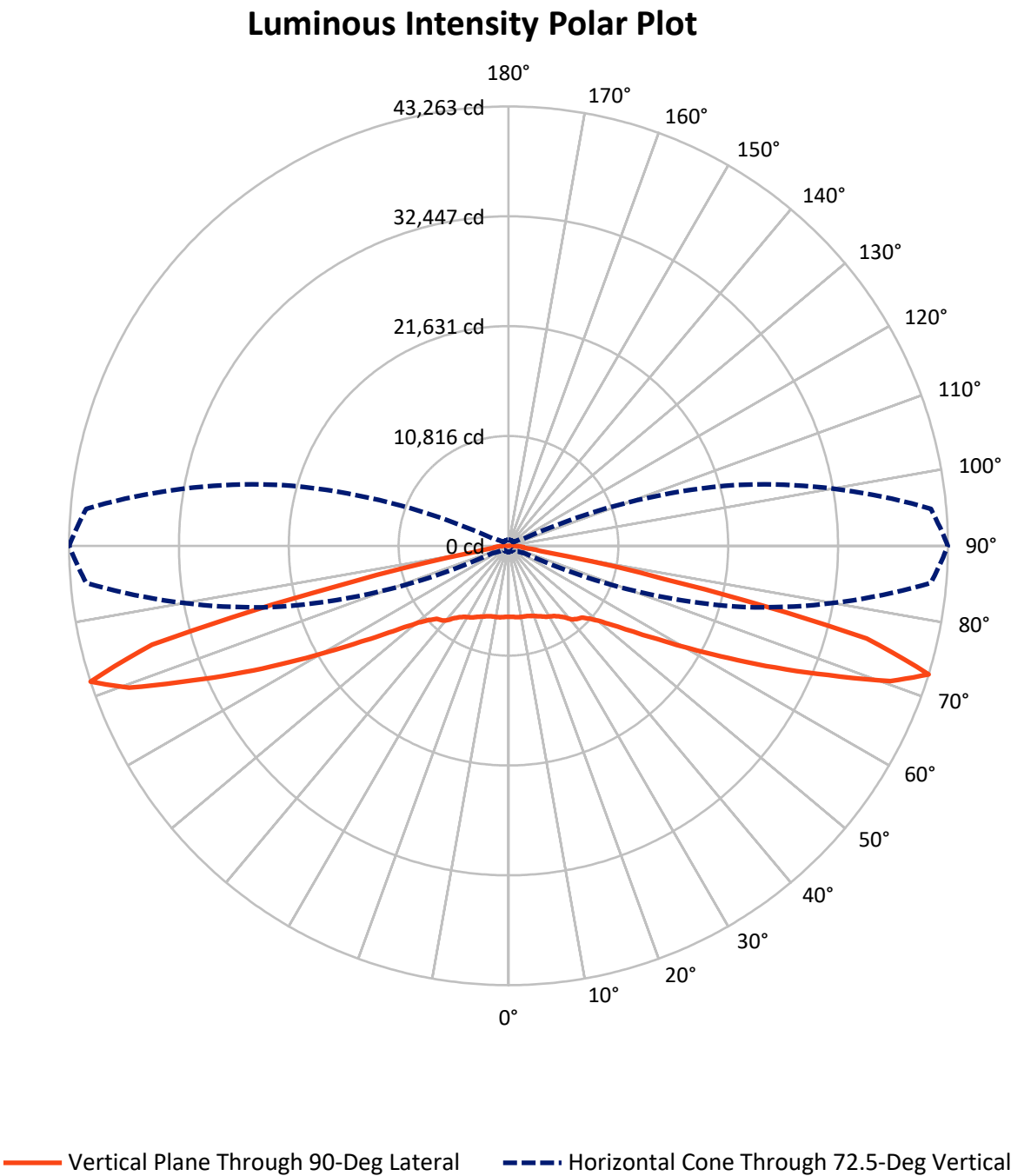
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type I - Short - N/A

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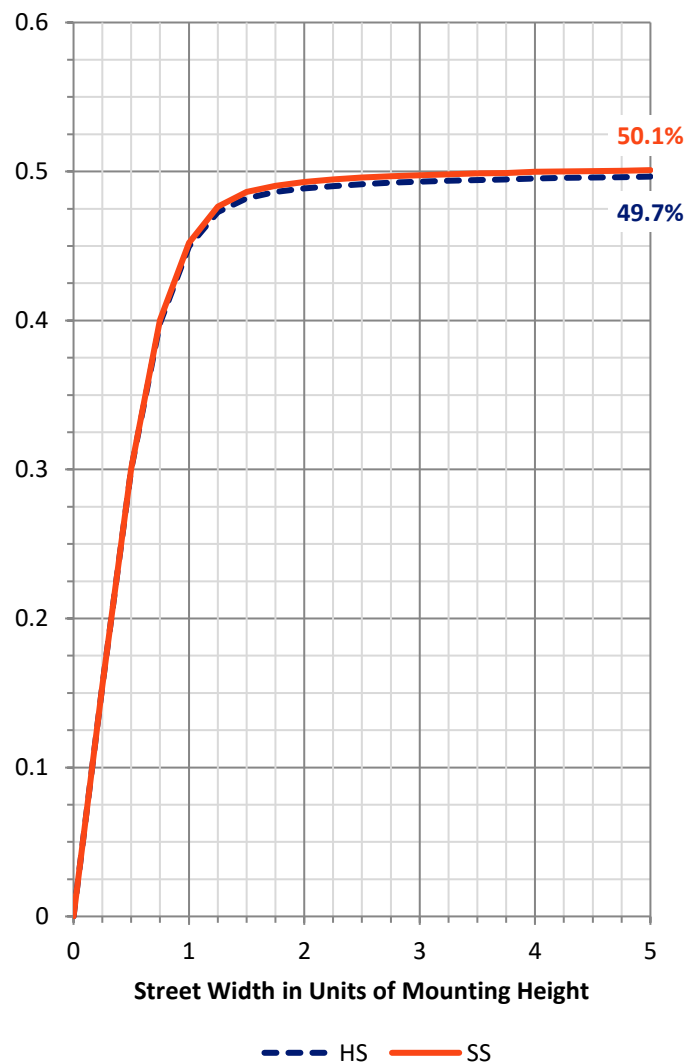
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18711.0	0.0	18711.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18711.0	0.0	18711.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37422.0	0.0	37422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.0	1.8
10°-20°	2073.1	5.5
20°-30°	3456.8	9.2
30°-40°	4754.1	12.7
40°-50°	5806.1	15.5
50°-60°	6715.3	17.9
60°-70°	8007.0	21.4
70°-80°	5588.3	14.9
80°-90°	343.2	0.9
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°	37422.0	100.0
0°-180°	37422.0	100.0

Coefficient of Utilization



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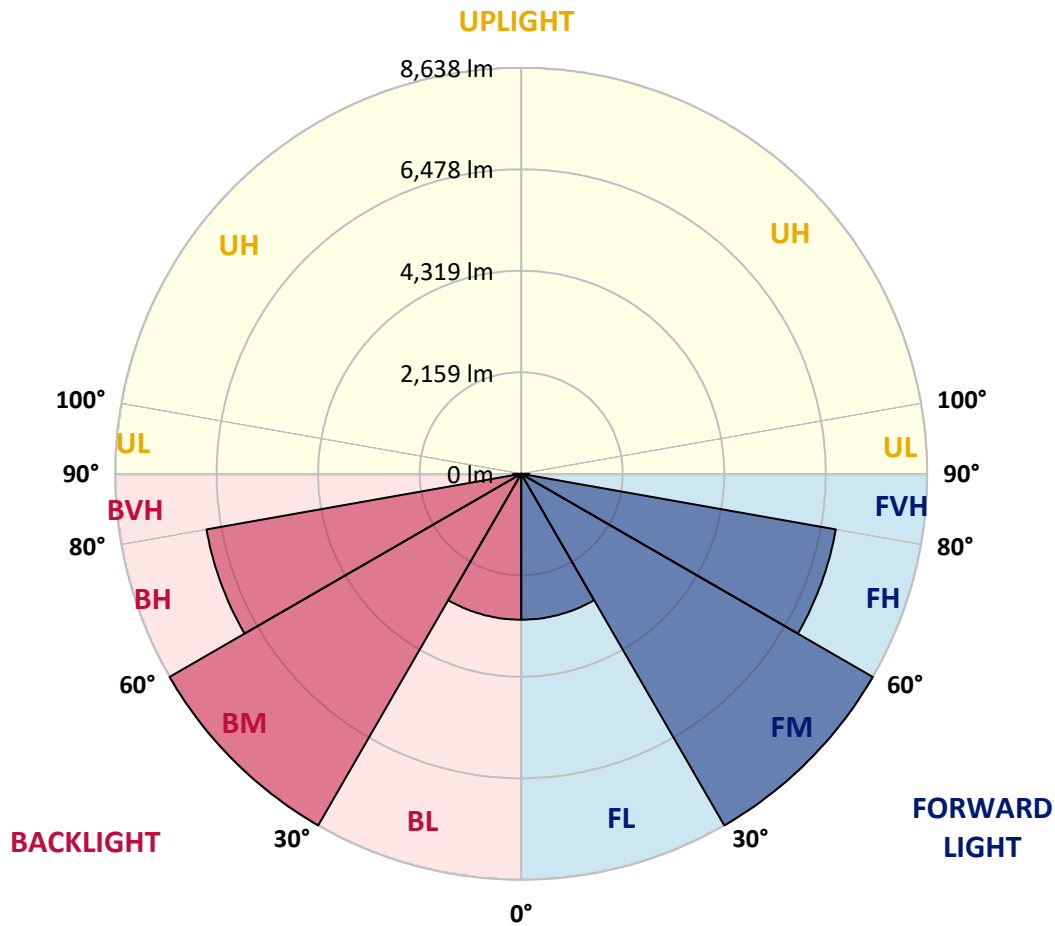
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3104.0	8.3			
FM	(30°-60°)	8637.8	23.1			
FH	(60°-80°)	6797.6	18.2			G3/7500
FVH	(80°-90°)	171.6	0.5			G2/225
BL	(0°-30°)	3104.0	8.3	B4/5000		
BM	(30°-60°)	8637.8	23.1	B5		
BH	(60°-80°)	6797.6	18.2	B5		G5
BVH	(80°-90°)	171.6	0.5			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7
2.5°	6998.7	7006.6	7006.6	7000.7	7014.6	7002.6	7002.6	6996.7	7002.6	6996.7	6996.7
5°	7034.5	7044.4	7048.4	7046.4	7064.3	7054.3	7054.3	7046.4	7048.4	7042.4	7042.4
7.5°	7102.1	7116.0	7124.0	7133.9	7159.8	7147.8	7139.9	7116.0	7106.1	7090.1	7090.1
10°	7124.0	7139.9	7165.7	7217.4	7277.1	7279.1	7255.2	7195.6	7149.8	7114.0	7108.0
12.5°	7056.3	7078.2	7131.9	7237.3	7370.6	7424.3	7386.5	7287.0	7197.5	7133.9	7124.0
15°	6970.8	6994.7	7076.2	7235.3	7432.2	7557.5	7553.5	7422.3	7279.1	7179.6	7163.7
17.5°	6837.6	6861.4	6978.8	7201.5	7480.0	7686.8	7742.5	7607.2	7406.4	7273.1	7251.2
20°	6596.9	6618.8	6781.9	7094.1	7495.9	7824.0	7969.2	7849.9	7599.3	7418.3	7384.5
22.5°	6284.7	6318.5	6509.4	6909.2	7458.1	7967.2	8227.8	8146.2	7824.0	7573.4	7527.7
25°	5950.6	5986.4	6209.1	6682.4	7360.6	8070.6	8534.0	8482.3	8078.6	7766.3	7702.7
27.5°	5662.2	5700.0	5942.6	6457.7	7209.5	8110.4	8836.3	8862.2	8386.9	7979.2	7911.5
30°	5435.4	5471.2	5729.8	6276.7	7014.6	8070.6	9100.8	9279.8	8701.1	8164.1	8066.7
32.5°	5186.8	5232.6	5505.1	6056.0	6783.9	7975.2	9331.5	9731.3	9065.0	8363.0	8239.7
35°	4872.6	4914.4	5200.8	5753.7	6481.6	7822.0	9524.5	10232.5	9586.1	8665.3	8528.1
37.5°	4490.8	4530.5	4814.9	5375.8	6181.3	7607.2	9671.6	10797.3	10206.6	9100.8	8917.9
40°	4106.9	4144.7	4411.2	4954.2	5821.3	7332.8	9723.3	11350.2	10918.6	9699.5	9504.6
42.5°	3754.9	3788.7	4033.3	4538.5	5417.5	6982.8	9655.7	11831.5	11557.0	10117.1	9866.5
45°	3430.7	3460.5	3677.3	4148.7	4997.9	6557.1	9452.9	12348.6	12316.8	10415.5	10077.4
47.5°	3060.8	3090.6	3315.4	3770.8	4578.3	6057.9	9108.8	12857.7	13372.8	11091.7	10701.8
50°	2609.3	2635.2	2865.9	3335.3	4142.7	5526.9	8631.5	13257.5	14705.3	12115.9	11626.6
52.5°	2074.3	2102.2	2326.9	2796.3	3625.6	4956.1	8003.0	13518.0	16244.7	13611.5	13008.9
55°	1543.3	1563.2	1758.1	2179.7	2985.2	4305.8	7215.4	13591.6	17990.9	15656.0	14902.2
57.5°	1119.7	1131.6	1256.9	1571.2	2263.3	3492.4	6258.8	13400.7	20069.2	18277.3	17328.6
60°	906.9	910.9	948.7	1087.9	1573.2	2573.5	5103.3	12744.4	22324.5	21656.3	20461.0
62.5°	823.4	823.4	833.3	871.1	1064.0	1698.5	3705.2	11384.0	24742.9	25926.3	24325.3
65°	765.7	765.7	769.7	787.6	839.3	1081.9	2338.9	9168.5	26781.5	30928.2	28903.5
67.5°	714.0	716.0	714.0	720.0	749.8	799.5	1356.4	6332.4	27879.3	36111.0	33925.3
70°	660.3	664.3	654.3	654.3	678.2	680.2	849.2	3472.5	26968.4	40454.6	39879.8
72.5°	596.6	602.6	586.7	582.7	600.6	592.7	638.4	1666.6	23153.9	41751.3	43262.8
75°	541.0	548.9	513.1	503.2	503.2	497.2	519.1	855.2	15027.5	34058.6	36429.2
77.5°	491.2	507.1	449.5	417.7	409.7	391.8	423.6	523.1	6573.1	15990.1	15658.0
80°	405.7	427.6	369.9	332.1	318.2	298.3	334.1	365.9	1955.0	3713.1	3556.0
82.5°	302.3	312.2	262.5	236.7	224.7	210.8	250.6	254.6	636.4	1314.6	1485.6
85°	192.9	196.9	161.1	139.2	133.3	127.3	159.1	139.2	242.6	966.6	1404.1
87.5°	67.6	77.6	61.7	55.7	59.7	49.7	73.6	41.8	67.6	682.2	845.2
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)