

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: P950210

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
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-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38953 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
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



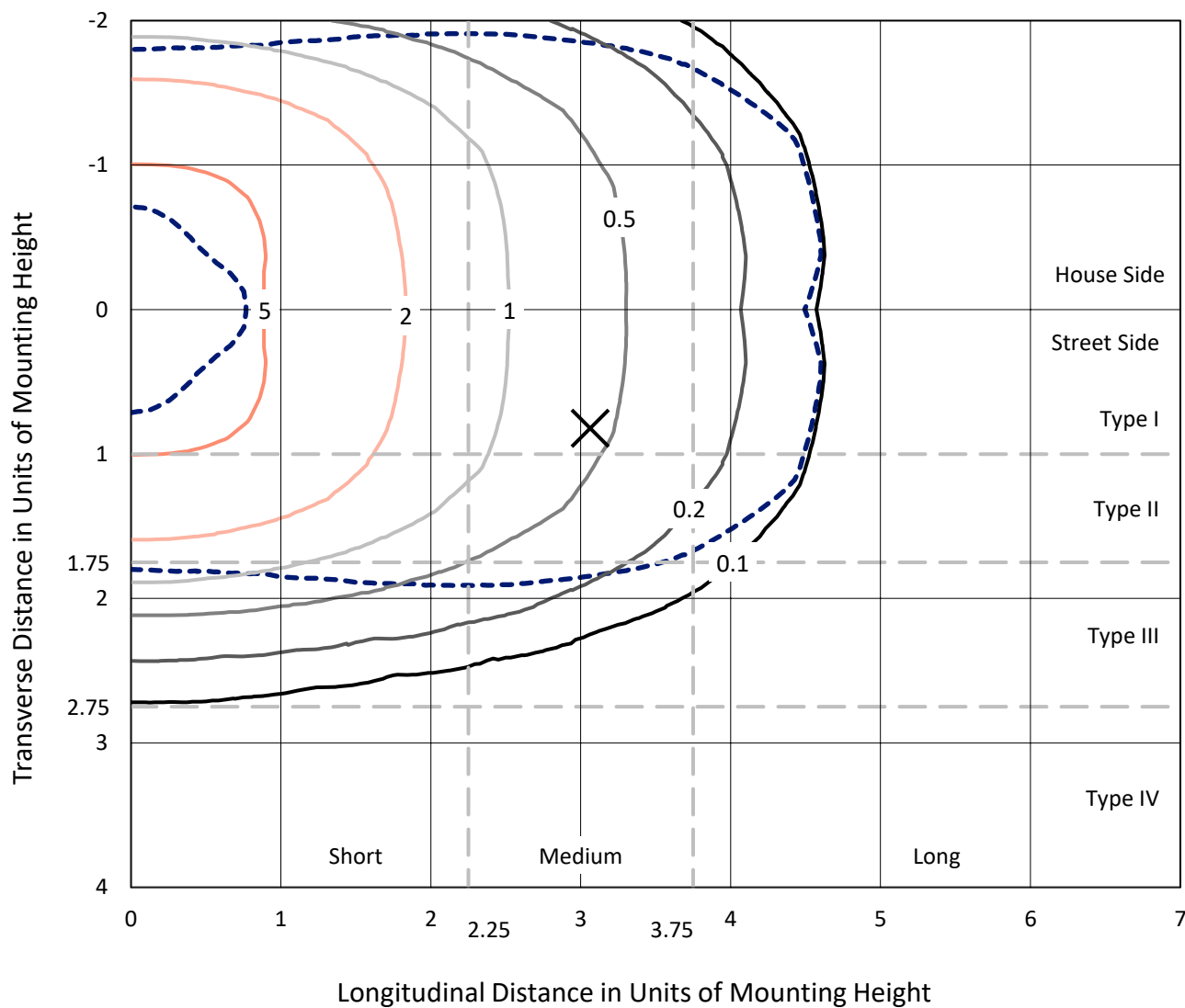
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Iso-Footcandle Lines of Horizontal Illumination

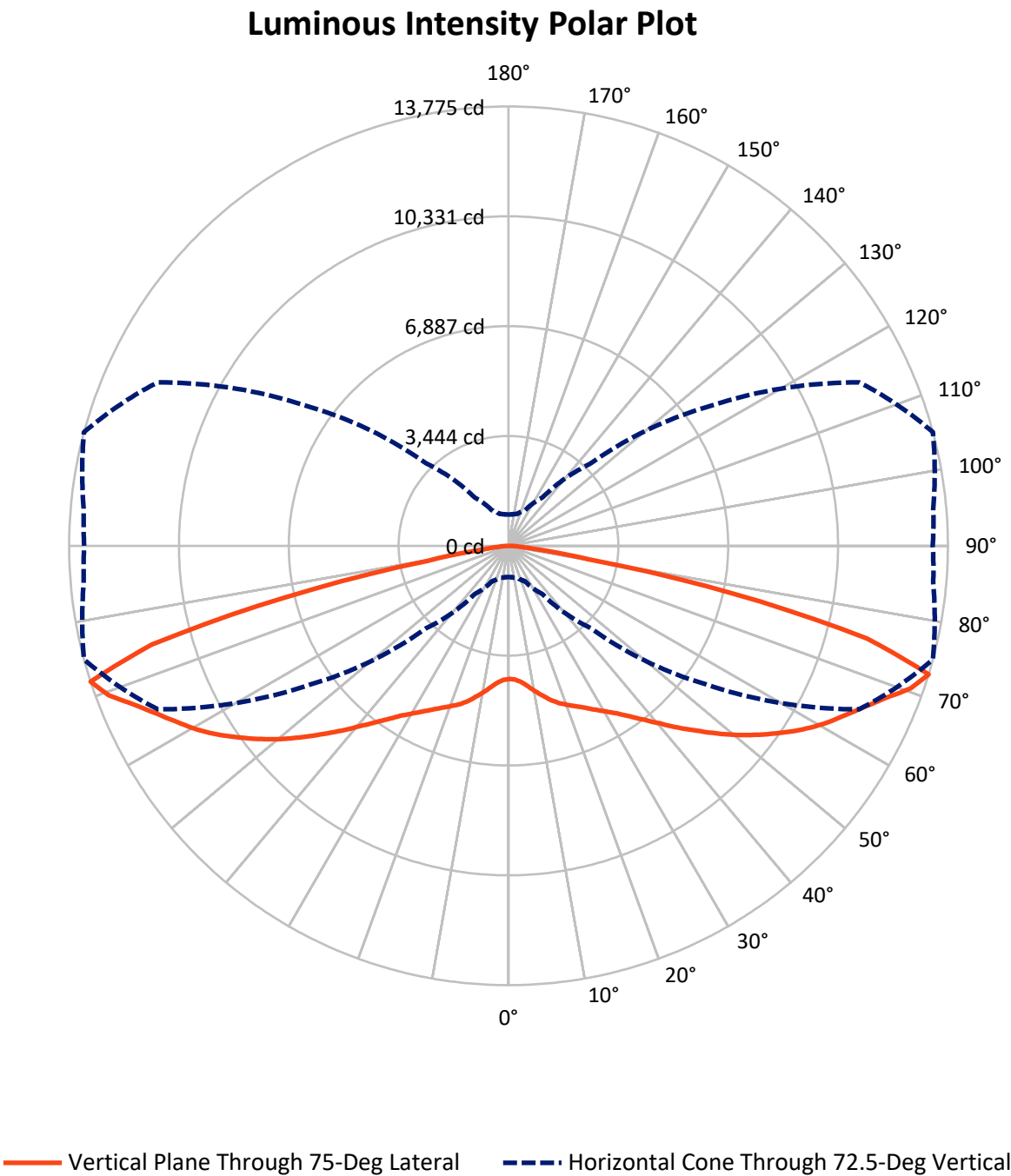
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

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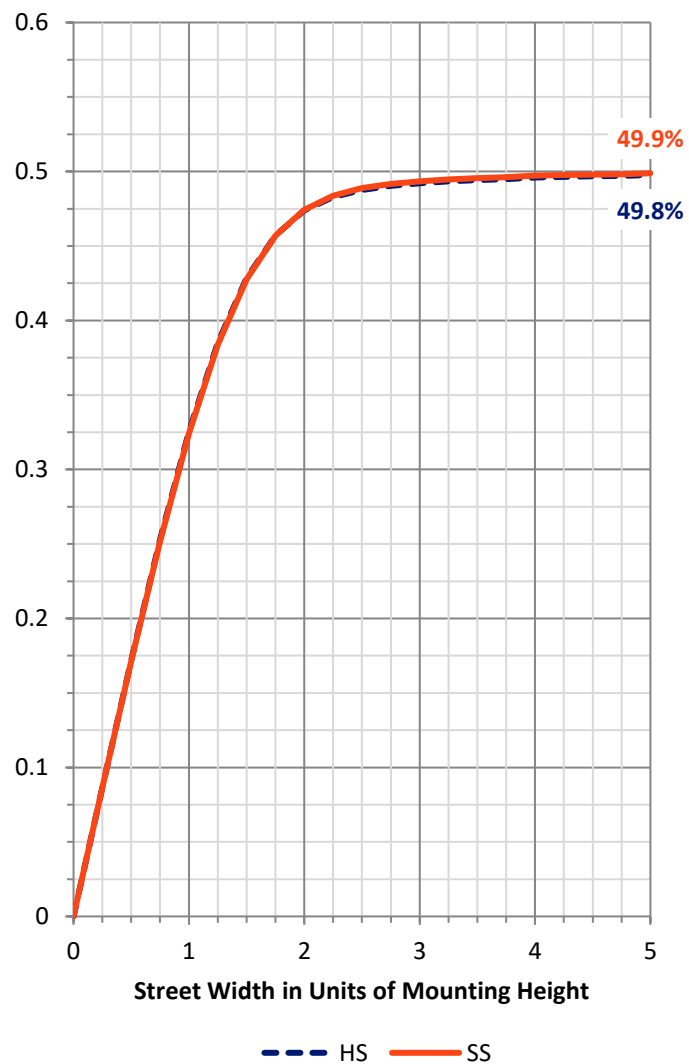
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19476.5	0.0	19476.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19476.5	0.0	19476.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38953.0	0.0	38953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	1.0
10°-20°	1348.1	3.5
20°-30°	2604.9	6.7
30°-40°	4398.6	11.3
40°-50°	6975.6	17.9
50°-60°	9339.6	24.0
60°-70°	8888.3	22.8
70°-80°	4638.1	11.9
80°-90°	351.1	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°	38953.0	100.0
0°-180°	38953.0	100.0

Coefficient of Utilization



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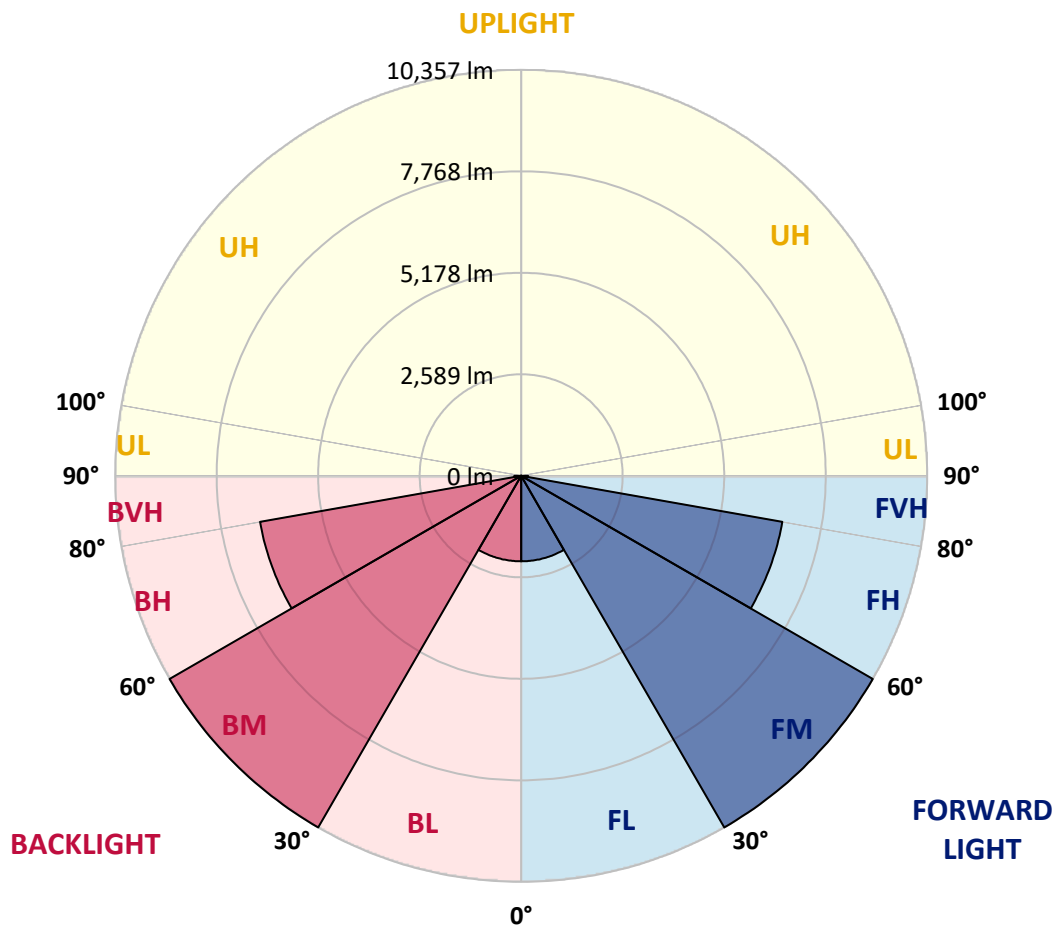
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.9	5.6			
FM	(30°-60°)	10356.9	26.6			
FH	(60°-80°)	6763.2	17.4			G3/7500
FVH	(80°-90°)	175.5	0.5			G2/225
BL	(0°-30°)	2180.9	5.6	B3/2500		
BM	(30°-60°)	10356.9	26.6	B5		
BH	(60°-80°)	6763.2	17.4	B5		G5
BVH	(80°-90°)	175.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4172.6	4172.6	4172.6	4172.6	4172.6	4172.6	4172.6	4172.6	4172.6	4172.6	4172.6
2.5°	4172.6	4168.6	4172.6	4176.5	4174.6	4174.6	4184.5	4190.5	4202.4	4200.4	4198.4
5°	4144.7	4142.7	4158.6	4176.5	4190.5	4214.3	4244.2	4266.0	4293.9	4299.8	4299.8
7.5°	4130.8	4124.8	4152.7	4184.5	4228.3	4287.9	4345.6	4405.3	4453.0	4468.9	4472.9
10°	4140.7	4142.7	4180.5	4240.2	4309.8	4393.3	4474.9	4576.3	4643.9	4659.8	4675.7
12.5°	4186.5	4182.5	4246.2	4341.6	4437.1	4542.5	4637.9	4749.3	4822.9	4860.7	4876.6
15°	4270.0	4262.1	4351.6	4492.8	4632.0	4755.3	4832.9	4938.3	5023.8	5071.5	5089.4
17.5°	4369.5	4373.4	4490.8	4673.7	4856.7	4995.9	5069.5	5123.2	5188.9	5230.6	5250.5
20°	4544.5	4552.4	4683.7	4900.5	5109.3	5268.4	5328.1	5308.2	5326.1	5357.9	5381.8
22.5°	4779.2	4783.1	4930.3	5165.0	5383.8	5558.8	5598.6	5517.0	5467.3	5489.2	5505.1
25°	5051.6	5077.5	5224.7	5465.3	5690.0	5857.1	5875.0	5751.7	5628.4	5634.4	5644.3
27.5°	5383.8	5407.6	5556.8	5795.4	6024.2	6169.3	6167.4	6002.3	5821.3	5775.6	5789.5
30°	5743.7	5769.6	5922.7	6169.3	6382.2	6509.4	6481.6	6284.7	6026.2	5940.6	5950.6
32.5°	6171.3	6187.2	6342.4	6589.0	6785.9	6887.3	6829.6	6587.0	6264.8	6167.4	6191.2
35°	6688.4	6712.3	6827.7	7060.3	7233.4	7316.9	7219.4	6933.1	6571.1	6461.7	6477.6
37.5°	7279.1	7263.2	7394.5	7601.3	7744.5	7796.2	7663.0	7322.9	6921.1	6791.9	6815.7
40°	7895.7	7887.7	8030.9	8229.8	8307.3	8339.2	8142.3	7770.4	7324.9	7185.6	7231.4
42.5°	8454.5	8448.5	8641.5	8862.2	8955.7	8919.9	8671.3	8245.7	7792.2	7633.1	7672.9
45°	8902.0	8894.0	9130.7	9441.0	9623.9	9564.3	9230.2	8770.7	8265.6	8100.5	8138.3
47.5°	9246.1	9250.0	9504.6	9888.5	10208.7	10230.5	9801.0	9305.7	8786.6	8599.7	8655.4
50°	9494.7	9506.6	9779.1	10204.7	10642.2	10835.1	10383.7	9854.6	9325.6	9114.8	9178.4
52.5°	9556.3	9578.2	9906.4	10405.6	10920.7	11288.6	10976.3	10381.7	9836.7	9635.9	9687.6
55°	9228.2	9271.9	9687.6	10389.6	11091.7	11586.9	11497.4	10916.7	10351.9	10145.0	10202.7
57.5°	8474.4	8536.1	9021.3	9938.2	11053.9	11791.8	11901.2	11429.8	10867.0	10668.1	10713.8
60°	7418.3	7491.9	7957.3	8957.7	10520.9	11867.3	12185.6	11929.0	11340.3	11147.4	11189.2
62.5°	5825.3	5920.7	6477.6	7651.0	9395.2	11515.3	12428.2	12380.5	11765.9	11525.3	11553.1
65°	3737.0	3838.4	4425.1	5811.4	7893.7	10437.4	12503.8	12820.0	12215.4	11879.3	11921.0
67.5°	2253.3	2299.1	2589.5	3522.2	5769.6	8812.5	11863.4	13307.3	12740.4	12322.8	12354.6
70°	1441.9	1467.8	1640.8	2068.4	3261.7	6429.9	10276.3	13398.7	13376.9	12778.2	12774.2
72.5°	978.5	986.5	1032.2	1225.1	1845.6	3653.5	7579.4	12129.9	13774.6	13364.9	13301.3
75°	716.0	759.7	833.3	867.1	1048.1	1825.7	4343.6	8522.1	11608.8	11787.8	11354.2
77.5°	533.0	535.0	636.4	676.2	747.8	972.5	1837.7	4757.3	7207.5	7567.5	6750.1
80°	451.5	427.6	425.6	544.9	562.8	606.6	821.4	1642.8	2581.5	1565.2	1183.4
82.5°	375.9	350.0	316.2	425.6	383.8	371.9	356.0	668.2	821.4	403.7	344.1
85°	262.5	250.6	238.7	278.4	218.8	186.9	171.0	312.2	346.1	171.0	151.2
87.5°	113.4	117.3	119.3	123.3	91.5	65.6	65.6	87.5	87.5	67.6	49.7
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)