

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: P957346

Luminaire Tested: **GALN-SB9D-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 90033 lumens
Efficiency: N/A
Efficacy: 136.8 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): 658
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

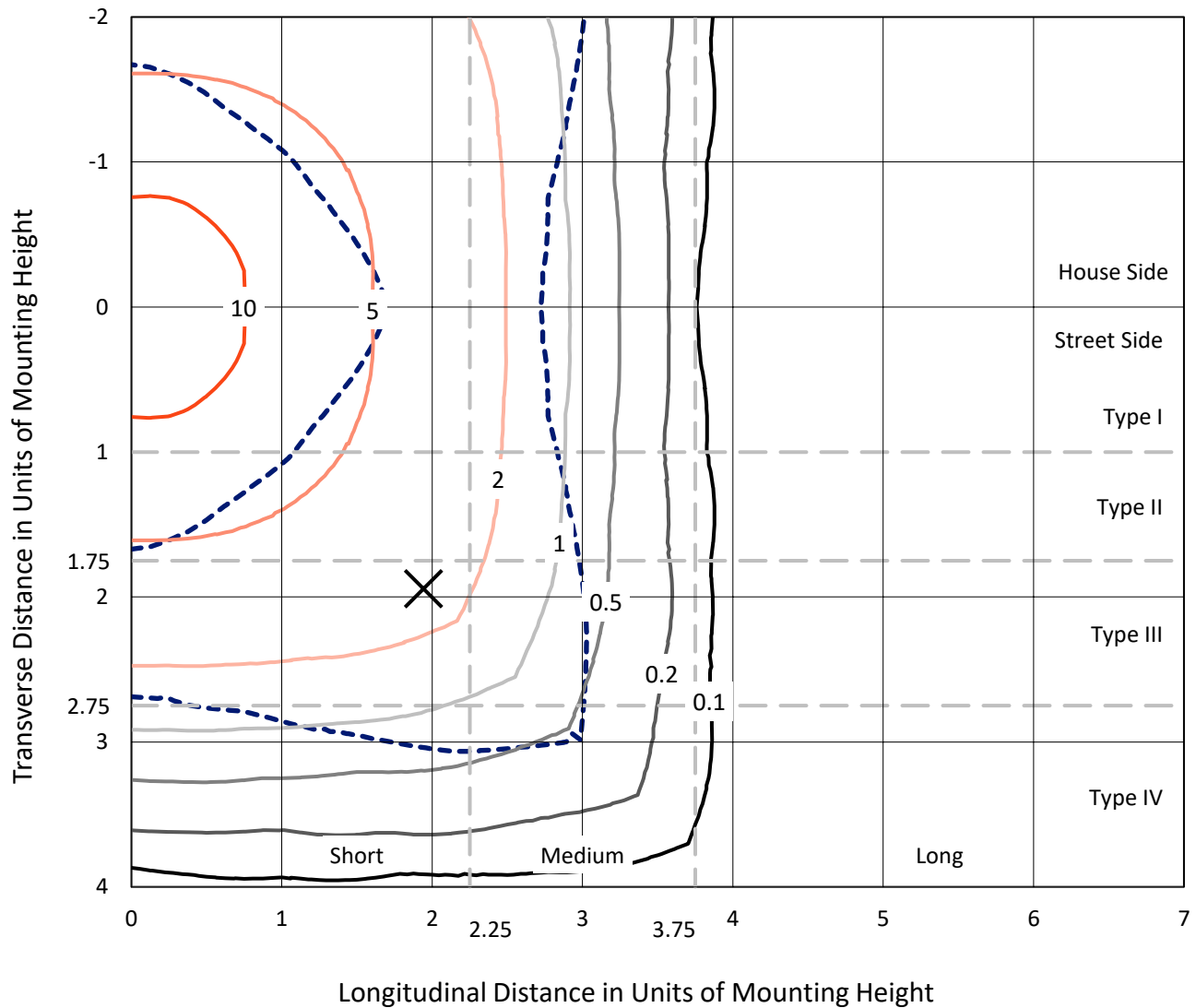


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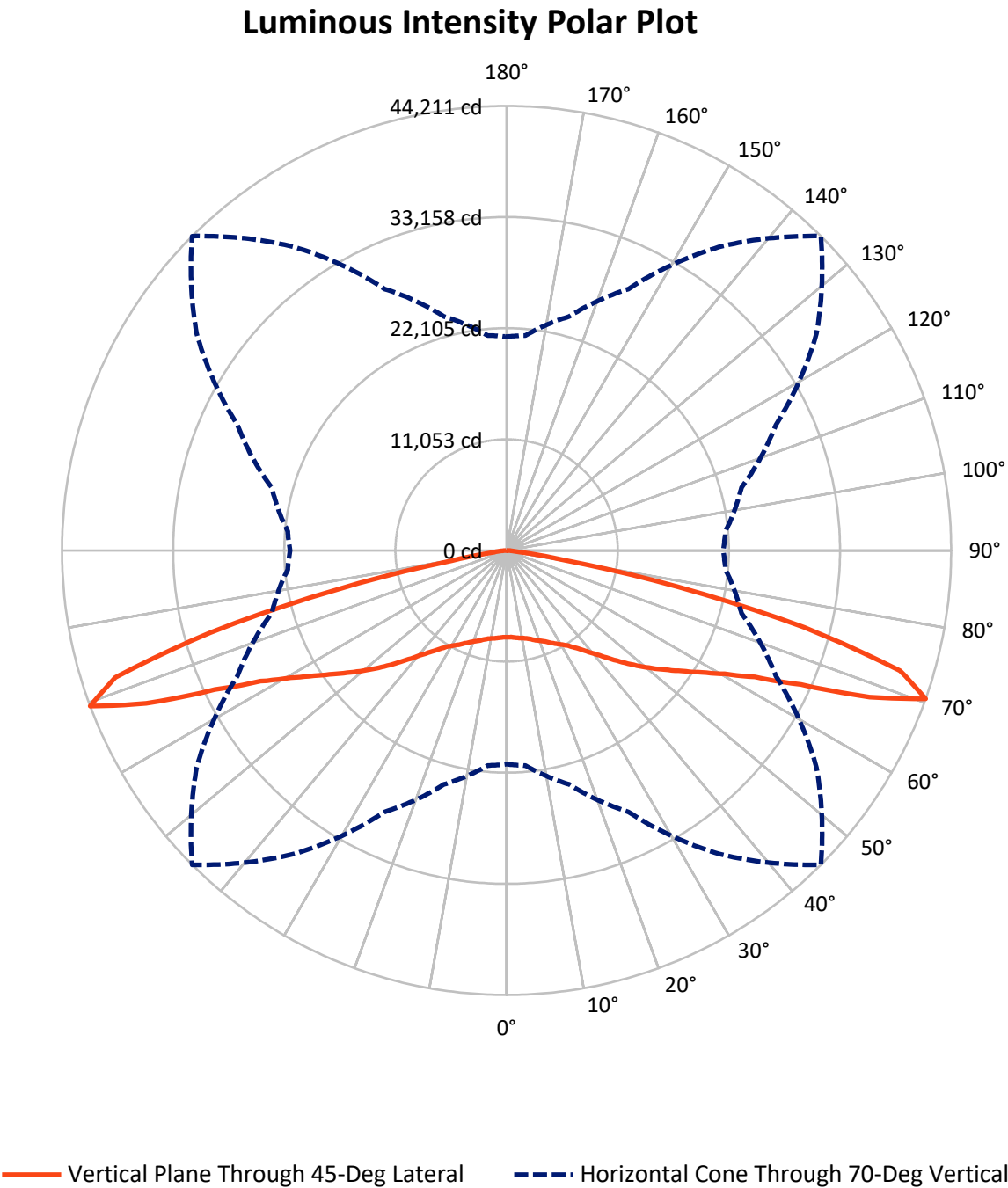
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type V - Short - N/A

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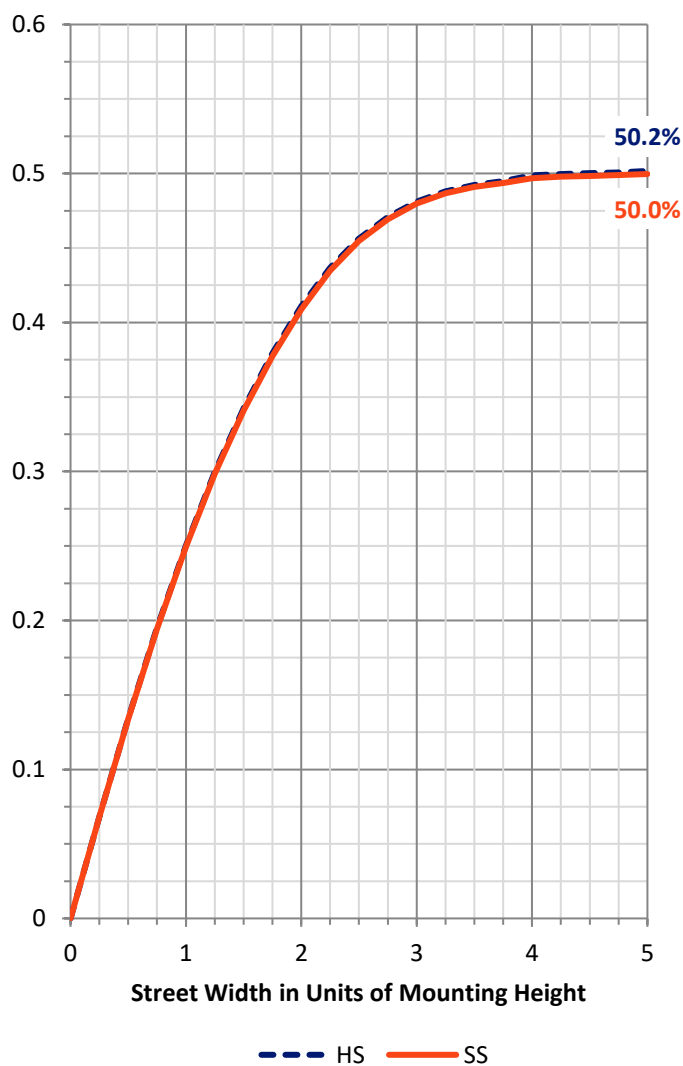
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45016.5	0.0	45016.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45016.5	0.0	45016.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	90033.0	0.0	90033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.8	0.9
10°-20°	2598.1	2.9
20°-30°	4643.0	5.2
30°-40°	7526.3	8.4
40°-50°	12259.1	13.6
50°-60°	18691.0	20.8
60°-70°	27806.3	30.9
70°-80°	15155.3	16.8
80°-90°	516.1	0.6
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°	90033.0	100.0
0°-180°	90033.0	100.0

Coefficient of Utilization



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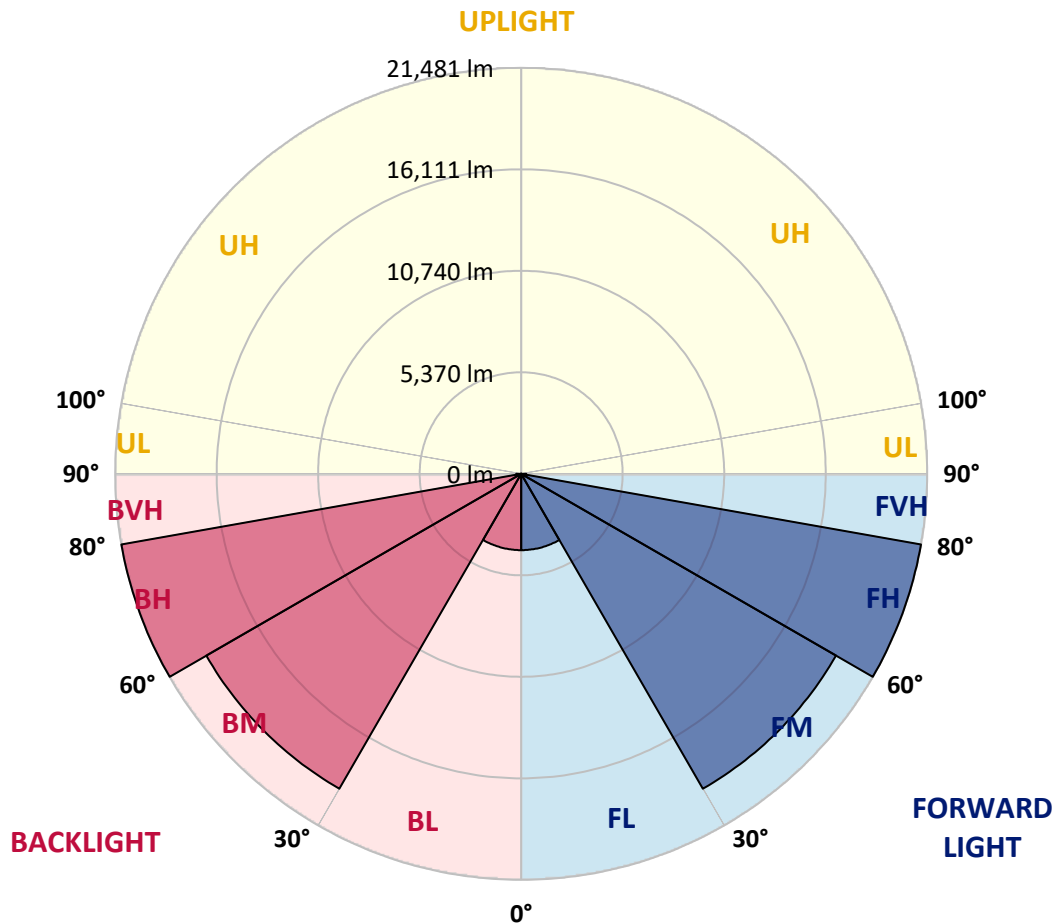
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4039.5	4.5			
FM	(30°-60°)	19238.2	21.4			
FH	(60°-80°)	21480.8	23.9			G5
FVH	(80°-90°)	258.0	0.3			G3/500
BL	(0°-30°)	4039.5	4.5	B4/5000		
BM	(30°-60°)	19238.2	21.4	B5		
BH	(60°-80°)	21480.8	23.9	B5		G5
BVH	(80°-90°)	258.0	0.3			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°	8624.2	8624.2	8624.2	8624.2	8624.2	8624.2	8624.2	8624.2	8624.2	8624.2	8624.2
2.5°	8664.9	8673.9	8655.9	8646.8	8637.8	8624.2	8628.7	8651.3	8669.4	8664.9	8669.4
5°	8737.2	8746.3	8732.7	8728.2	8710.1	8705.6	8705.6	8728.2	8741.8	8732.7	8737.2
7.5°	8818.6	8832.2	8809.6	8805.0	8796.0	8787.0	8782.4	8805.0	8818.6	8818.6	8818.6
10°	8895.4	8909.0	8890.9	8877.4	8868.3	8868.3	8859.3	8877.4	8900.0	8895.4	8895.4
12.5°	8976.8	8985.8	8967.8	8958.7	8958.7	8972.3	8958.7	8967.8	8985.8	8976.8	8972.3
15°	9076.2	9080.8	9076.2	9089.8	9112.4	9157.6	9116.9	9107.9	9116.9	9094.3	9094.3
17.5°	9211.8	9220.9	9239.0	9270.6	9302.2	9383.6	9311.3	9288.7	9288.7	9243.5	9243.5
20°	9379.1	9392.6	9419.8	9474.0	9514.7	9591.5	9519.2	9487.6	9474.0	9415.2	9415.2
22.5°	9555.4	9578.0	9618.6	9691.0	9763.3	9835.6	9763.3	9709.0	9668.4	9591.5	9587.0
25°	9758.8	9785.9	9849.2	9966.7	10066.1	10170.1	10084.2	9975.7	9894.4	9785.9	9781.4
27.5°	10048.0	10079.7	10156.5	10301.2	10427.7	10518.1	10436.8	10296.6	10183.6	10052.6	10048.0
30°	10454.8	10486.5	10576.9	10730.6	10816.4	10875.2	10821.0	10712.5	10576.9	10427.7	10427.7
32.5°	10979.2	11019.8	11119.3	11263.9	11282.0	11291.1	11273.0	11218.7	11119.3	10938.5	10943.0
35°	11643.6	11688.8	11801.8	11919.3	11901.3	11919.3	11892.2	11874.1	11801.8	11593.9	11593.9
37.5°	12457.2	12511.5	12629.0	12719.4	12674.2	12651.6	12656.1	12660.6	12619.9	12389.4	12389.4
40°	13401.9	13474.2	13560.1	13655.0	13578.2	13510.4	13555.6	13591.7	13555.6	13320.5	13320.5
42.5°	14373.7	14477.7	14568.1	14703.7	14640.4	14554.5	14617.8	14658.5	14581.6	14328.5	14346.6
45°	15454.0	15553.4	15671.0	15874.4	15829.2	15738.8	15829.2	15838.2	15707.1	15408.8	15440.4
47.5°	16570.5	16674.4	16850.7	17121.9	17103.8	17004.4	17121.9	17058.6	16891.4	16534.3	16511.7
50°	17628.1	17772.8	18044.0	18423.7	18459.8	18337.8	18496.0	18373.9	18093.7	17646.2	17637.2
52.5°	18622.6	18776.2	19205.6	19720.9	19852.0	19693.8	19906.2	19693.8	19273.4	18699.4	18645.2
55°	19666.7	19838.4	20349.2	21022.7	21284.9	21167.3	21366.2	21045.3	20448.6	19752.6	19657.6
57.5°	20896.1	21000.1	21610.3	22410.3	22853.3	22880.4	22970.8	22428.4	21705.2	20914.2	20805.7
60°	22229.5	22374.2	23038.6	23996.9	24697.5	24923.5	24828.6	24024.0	23183.3	22274.7	22130.1
62.5°	23938.1	24096.3	24891.8	26039.9	27147.3	27707.8	27337.2	26171.0	25131.4	24042.1	23852.2
65°	25352.9	25529.2	26966.5	29014.1	31030.1	32155.5	31224.4	29077.4	27206.1	25669.3	25416.2
67.5°	24326.8	24543.8	26799.3	30560.0	35572.7	38931.1	35744.4	31021.0	27355.3	25271.5	24959.6
70°	21262.3	21465.7	24096.3	28693.2	36851.9	44210.5	37620.3	29538.4	24182.2	21849.9	21538.0
72.5°	14116.1	14771.5	17433.8	22948.2	32905.9	40910.8	33231.3	22482.7	16172.7	14084.4	13627.9
75°	4682.8	5207.1	7024.1	11896.7	22039.7	30596.1	20982.0	10527.2	5564.2	4004.8	3787.8
77.5°	1179.7	1360.5	1875.8	3403.6	8791.5	17420.2	7914.6	2779.8	1514.2	1057.7	944.7
80°	574.0	632.8	904.0	1134.5	2201.3	5537.0	2065.7	1066.7	714.2	551.4	506.2
82.5°	316.4	320.9	510.8	641.8	818.1	1432.9	849.8	623.8	411.3	334.5	334.5
85°	194.4	189.8	271.2	343.5	343.5	510.8	406.8	343.5	235.0	207.9	217.0
87.5°	76.8	76.8	99.4	108.5	94.9	131.1	104.0	113.0	90.4	85.9	90.4
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)