

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: P944560

Luminaire Tested: **GALN-SB9C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944560
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-SB9C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59999 lumens
Efficiency: N/A
Efficacy: 133.4 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

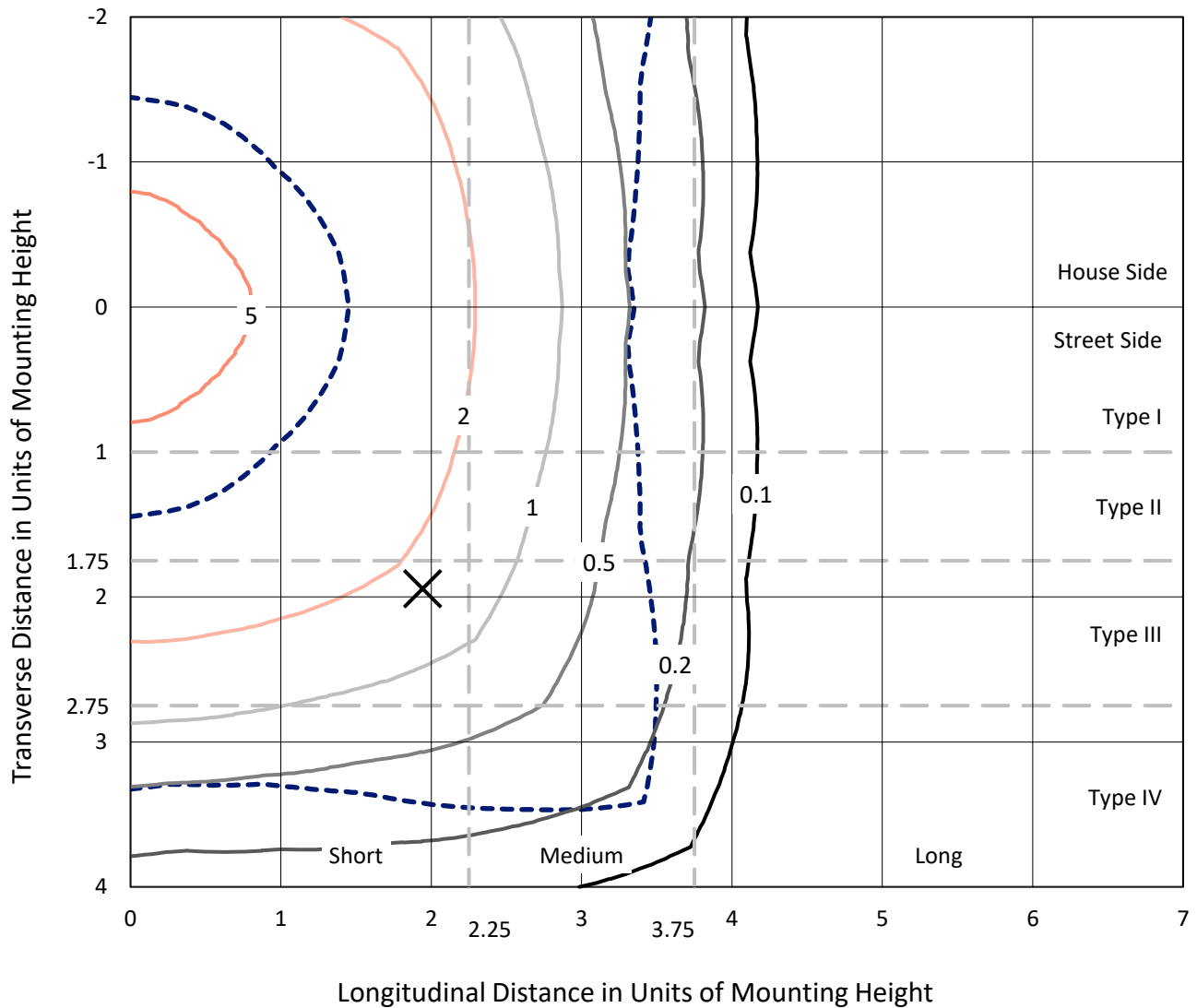
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

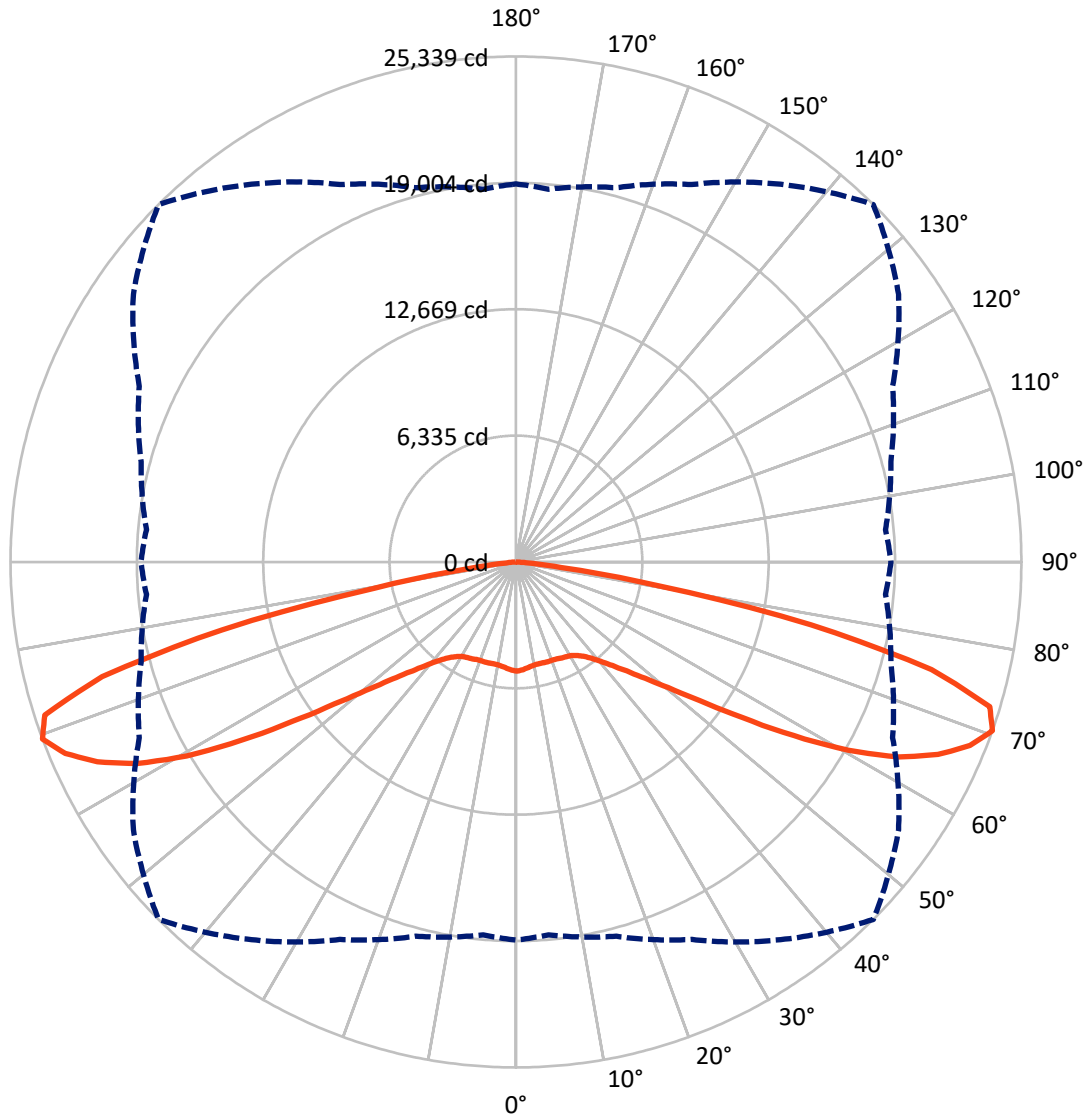
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29999.5	0.0	29999.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29999.5	0.0	29999.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	59999.0	0.0	59999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.1	0.8
10°-20°	1494.9	2.5
20°-30°	2487.8	4.1
30°-40°	3762.3	6.3
40°-50°	6252.0	10.4
50°-60°	11797.3	19.7
60°-70°	19920.2	33.2
70°-80°	13089.6	21.8
80°-90°	685.8	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°	59999.0	100.0
0°-180°	59999.0	100.0

Coefficient of Utilization



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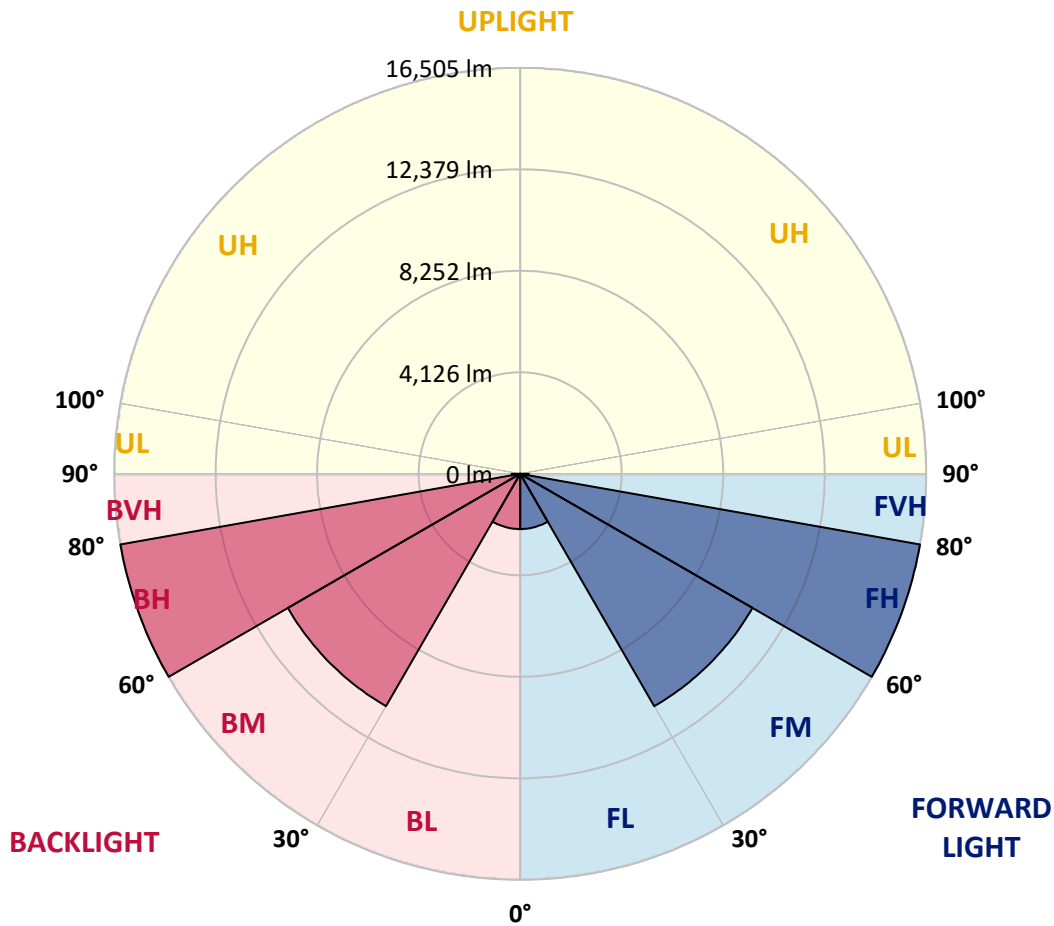
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.9	3.7			
FM (30°-60°)	10905.8	18.2			
FH (60°-80°)	16504.9	27.5			G5
FVH (80°-90°)	342.9	0.6			G3/500
BL (0°-30°)	2245.9	3.7	B3/2500		
BM (30°-60°)	10905.8	18.2	B5		
BH (60°-80°)	16504.9	27.5	B5		G5
BVH (80°-90°)	342.9	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°
0°	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1
2.5°	5438.8	5454.4	5448.2	5435.7	5435.7	5426.3	5435.7	5441.9	5451.3	5457.5
5°	5367.1	5379.6	5376.4	5367.1	5370.2	5360.8	5367.1	5376.4	5382.7	5385.8
7.5°	5304.7	5317.2	5311.0	5295.4	5295.4	5286.0	5289.1	5298.5	5307.8	5311.0
10°	5289.1	5301.6	5282.9	5257.9	5248.6	5236.1	5239.2	5248.6	5267.3	5276.6
12.5°	5295.4	5304.7	5286.0	5248.6	5239.2	5226.7	5226.7	5236.1	5261.1	5273.5
15°	5314.1	5323.4	5295.4	5254.8	5245.5	5236.1	5233.0	5245.5	5273.5	5295.4
17.5°	5348.4	5357.7	5314.1	5257.9	5245.5	5248.6	5245.5	5254.8	5298.5	5339.0
20°	5379.6	5385.8	5326.5	5257.9	5245.5	5248.6	5245.5	5264.2	5320.3	5376.4
22.5°	5388.9	5395.2	5339.0	5279.8	5270.4	5273.5	5270.4	5289.1	5342.1	5398.3
25°	5392.0	5401.4	5357.7	5311.0	5326.5	5332.8	5326.5	5329.7	5370.2	5420.1
27.5°	5438.8	5451.3	5410.7	5370.2	5379.6	5376.4	5385.8	5395.2	5426.3	5476.2
30°	5535.5	5544.8	5510.5	5470.0	5463.8	5441.9	5470.0	5501.2	5535.5	5579.1
32.5°	5694.5	5713.2	5669.6	5625.9	5597.9	5585.4	5607.2	5660.2	5707.0	5753.8
35°	5959.6	5972.1	5931.5	5850.5	5800.6	5800.6	5819.3	5887.9	5962.7	6022.0
37.5°	6333.8	6349.4	6277.7	6181.0	6106.2	6106.2	6131.1	6202.9	6315.1	6399.3
40°	6789.2	6811.0	6720.6	6620.8	6549.0	6536.6	6567.7	6648.8	6754.9	6860.9
42.5°	7338.0	7363.0	7244.5	7157.2	7101.0	7101.0	7116.6	7191.5	7288.1	7419.1
45°	8039.7	8083.4	7921.2	7833.9	7780.9	7793.3	7802.7	7868.2	7955.5	8105.2
47.5°	8875.5	8919.2	8747.6	8657.2	8647.8	8707.1	8669.7	8716.4	8763.2	8934.7
50°	9823.5	9898.4	9779.9	9773.6	9792.4	9901.5	9814.2	9839.1	9786.1	9895.3
52.5°	10983.7	11092.8	11071.0	11108.4	11317.3	11541.9	11342.3	11255.0	11055.4	11089.7
55°	12390.1	12555.4	12586.6	12811.1	13285.2	13743.6	13319.5	12967.1	12542.9	12465.0
57.5°	13990.0	14121.0	14270.6	14729.1	15614.8	16428.7	15614.8	14835.1	14167.7	14008.7
60°	15711.4	15873.6	16017.1	16693.8	18009.8	19154.3	17984.9	16746.8	15864.2	15649.1
62.5°	17560.8	17769.7	17869.5	18621.1	20155.4	21521.4	20177.2	18677.2	17698.0	17467.2
65°	19335.2	19506.7	19619.0	20420.5	21886.2	23255.3	21986.0	20507.8	19500.5	19198.0
67.5°	20161.7	20255.2	20529.6	21437.2	22984.0	24546.4	23245.9	21533.8	20408.0	19877.9
70°	18951.6	18761.4	19422.5	20875.8	23115.0	25338.5	23414.3	20832.1	19453.7	18593.0
72.5°	14644.9	14317.4	15465.1	17950.6	21618.0	24833.3	21767.7	18090.9	16179.2	14432.8
75°	7968.0	7596.9	9181.1	12324.6	17239.5	21524.5	17635.6	12677.0	10222.7	7908.7
77.5°	2248.5	2108.2	3386.8	5962.7	10369.3	15112.7	10768.5	6093.7	4016.7	2382.6
80°	689.2	667.4	904.4	1796.3	4403.4	7238.2	4231.9	1818.1	1150.8	726.6
82.5°	408.5	374.2	449.1	654.9	1122.7	2273.4	1091.5	683.0	548.9	368.0
85°	233.9	218.3	265.1	318.1	377.3	483.4	315.0	324.3	293.1	196.5
87.5°	96.7	87.3	102.9	99.8	87.3	112.3	84.2	99.8	118.5	78.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5473.1
5454.4
5385.8
5311.0
5276.6
5276.6
5298.5
5339.0
5379.6
5398.3
5417.0
5463.8
5569.8
5735.1
6000.2
6368.2
6826.6
7409.8
8099.0
8884.8
9829.8
10974.3
12343.4
13896.4
15461.9
17280.1
19048.3
19884.1
18798.8
14866.3
8423.3
2647.7
767.2
399.2
205.8
71.7
0.0

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