

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: P955691

Luminaire Tested: **GALN-SB8C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955691
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-SB8C-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54226 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

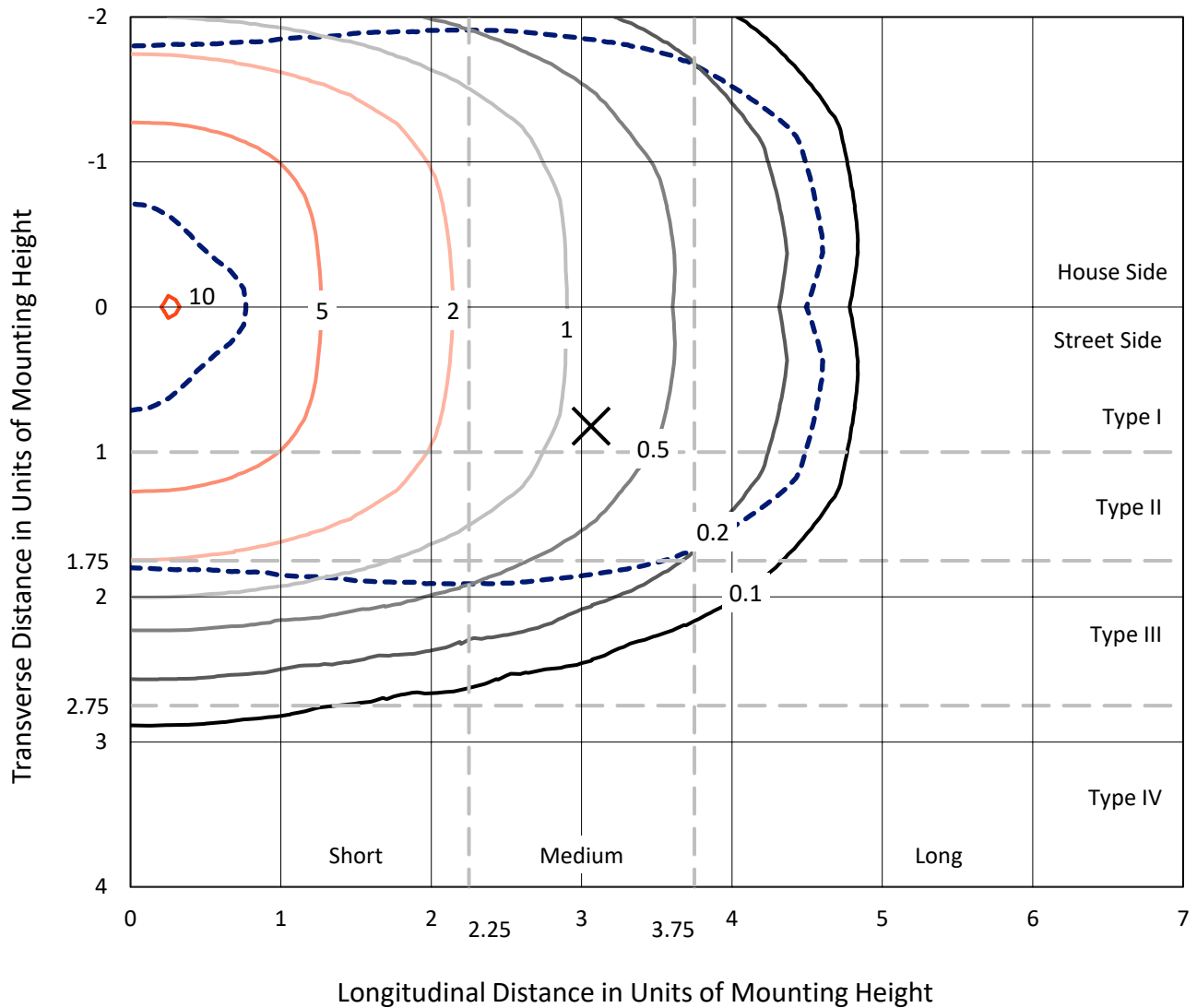
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

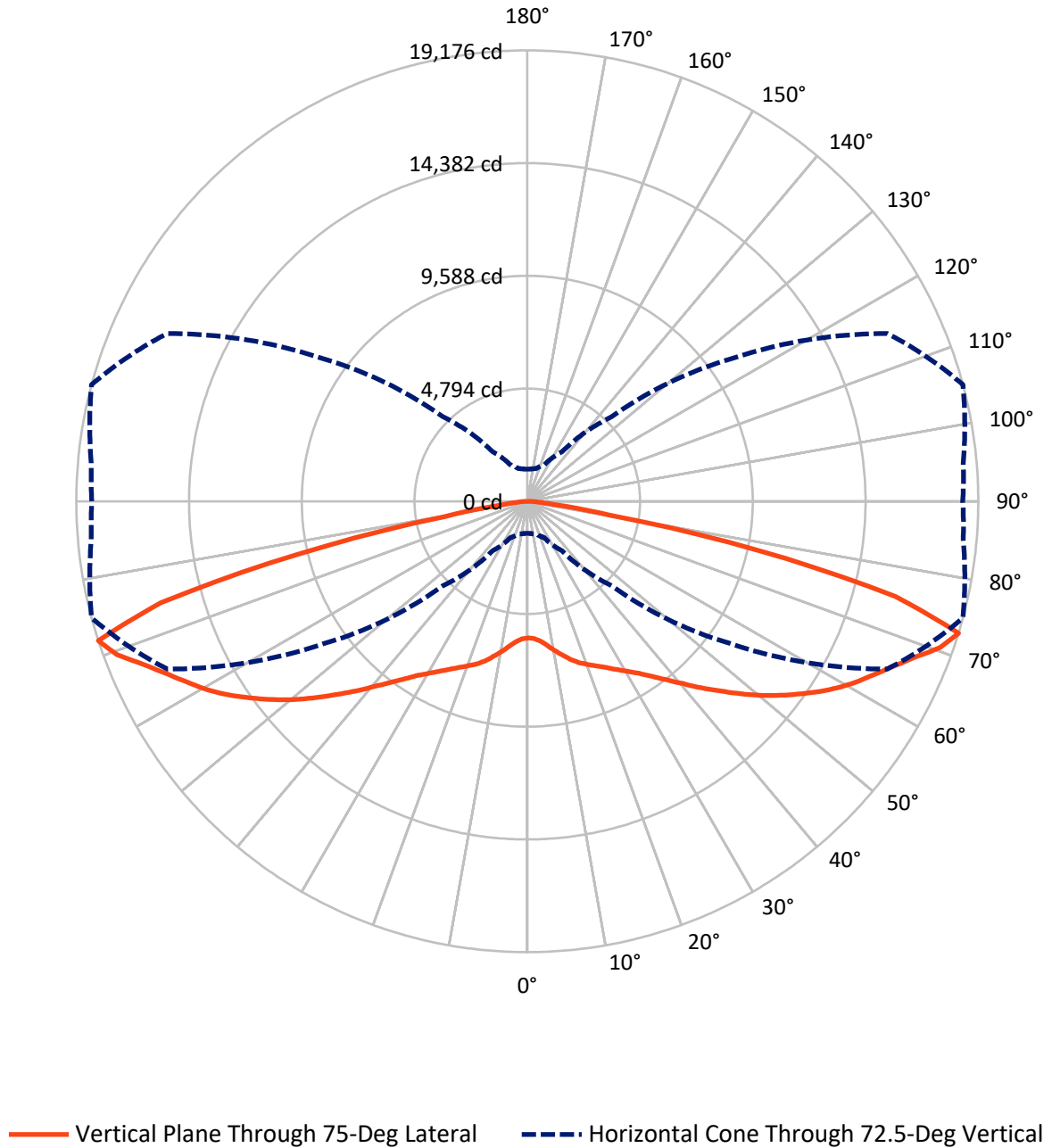
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27113.0	0.0	27113.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27113.0	0.0	27113.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54226.0	0.0	54226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	1.0
10°-20°	1876.7	3.5
20°-30°	3626.3	6.7
30°-40°	6123.2	11.3
40°-50°	9710.7	17.9
50°-60°	13001.5	24.0
60°-70°	12373.3	22.8
70°-80°	6456.6	11.9
80°-90°	488.7	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°	54226.0	100.0
0°-180°	54226.0	100.0

Coefficient of Utilization



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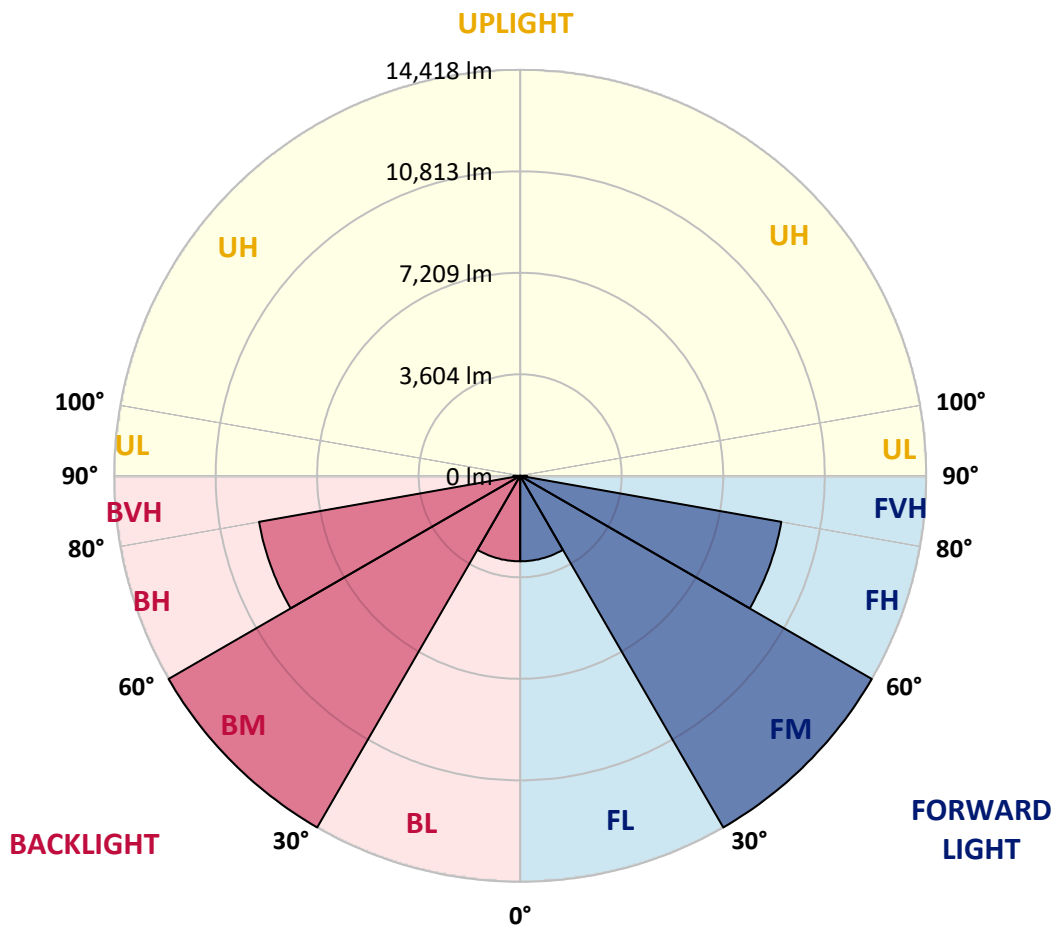
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3036.0	5.6			
FM (30°-60°)	14417.7	26.6			
FH (60°-80°)	9414.9	17.4			G4/12000
FVH (80°-90°)	244.4	0.5			G3/500
BL (0°-30°)	3036.0	5.6	B4/5000		
BM (30°-60°)	14417.7	26.6	B5		
BH (60°-80°)	9414.9	17.4	B5		G5
BVH (80°-90°)	244.4	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6
2.5°	5808.6	5803.0	5808.6	5814.1	5811.3	5811.3	5825.2	5833.5	5850.1	5847.3
5°	5769.8	5767.0	5789.2	5814.1	5833.5	5866.7	5908.2	5938.7	5977.5	5985.8
7.5°	5750.4	5742.1	5780.9	5825.2	5886.1	5969.2	6049.4	6132.5	6199.0	6221.1
10°	5764.3	5767.0	5819.6	5902.7	5999.6	6115.9	6229.4	6370.6	6464.7	6486.9
12.5°	5828.0	5822.4	5911.0	6043.9	6176.8	6323.5	6456.4	6611.5	6713.9	6766.5
15°	5944.2	5933.2	6057.8	6254.3	6448.1	6619.8	6727.8	6874.5	6993.5	7060.0
17.5°	6082.7	6088.2	6251.6	6506.3	6761.0	6954.8	7057.2	7132.0	7223.3	7281.5
20°	6326.3	6337.4	6520.1	6821.9	7112.6	7334.1	7417.1	7389.5	7414.4	7458.7
22.5°	6653.0	6658.5	6863.4	7190.1	7494.7	7738.3	7793.7	7680.2	7611.0	7641.4
25°	7032.3	7068.3	7273.2	7608.2	7921.0	8153.6	8178.5	8006.9	7835.2	7843.5
27.5°	7494.7	7527.9	7735.5	8067.8	8386.2	8588.3	8585.5	8355.7	8103.8	8040.1
30°	7995.8	8031.8	8245.0	8588.3	8884.5	9061.7	9022.9	8748.9	8388.9	8269.9
32.5°	8591.0	8613.2	8829.1	9172.5	9446.5	9587.7	9507.5	9169.7	8721.2	8585.5
35°	9310.9	9344.1	9504.7	9828.6	10069.5	10185.8	10050.1	9651.4	9147.5	8995.3
37.5°	10133.2	10111.0	10293.7	10581.7	10781.0	10853.0	10667.5	10194.1	9634.8	9454.9
40°	10991.4	10980.4	11179.7	11456.6	11564.5	11608.8	11334.8	10817.0	10196.8	10003.0
42.5°	11769.4	11761.1	12029.7	12337.0	12467.1	12417.3	12071.2	11478.7	10847.5	10626.0
45°	12392.4	12381.3	12710.8	13142.7	13397.4	13314.3	12849.2	12209.6	11506.4	11276.6
47.5°	12871.3	12876.9	13231.3	13765.6	14211.4	14241.8	13643.8	12954.4	12231.8	11971.5
50°	13217.4	13234.0	13613.3	14205.8	14814.9	15083.5	14455.0	13718.5	12982.1	12688.6
52.5°	13303.2	13333.7	13790.5	14485.4	15202.5	15714.7	15280.0	14452.2	13693.6	13414.0
55°	12846.4	12907.3	13486.0	14463.3	15440.6	16130.0	16005.4	15197.0	14410.7	14122.8
57.5°	11797.1	11882.9	12558.5	13834.8	15388.0	16415.2	16567.5	15911.3	15127.8	14850.9
60°	10327.0	10429.4	11077.3	12469.9	14646.0	16520.4	16963.4	16606.2	15786.7	15518.1
62.5°	8109.3	8242.2	9017.4	10650.9	13079.0	16030.3	17301.1	17234.7	16379.2	16044.2
65°	5202.2	5343.4	6160.2	8089.9	10988.7	14529.7	17406.3	17846.6	17004.9	16537.0
67.5°	3136.9	3200.5	3604.7	4903.2	8031.8	12267.8	16514.8	18524.9	17735.8	17154.4
70°	2007.3	2043.2	2284.1	2879.4	4540.5	8951.0	14305.5	18652.2	18621.8	17788.4
72.5°	1362.2	1373.2	1436.9	1705.5	2569.3	5086.0	10551.2	16885.8	19175.5	18605.2
75°	996.7	1057.6	1160.1	1207.1	1459.1	2541.6	6046.7	11863.6	16160.5	16409.6
77.5°	742.0	744.8	886.0	941.3	1041.0	1353.9	2558.2	6622.6	10033.5	10534.6
80°	628.5	595.3	592.5	758.6	783.5	844.4	1143.4	2286.9	3593.7	2178.9
82.5°	523.3	487.3	440.2	592.5	534.3	517.7	495.6	930.3	1143.4	562.0
85°	365.5	348.8	332.2	387.6	304.5	260.3	238.1	434.7	481.7	238.1
87.5°	157.8	163.3	166.1	171.7	127.4	91.4	91.4	121.8	121.8	94.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5808.6
5844.6
5985.8
6226.6
6509.0
6788.7
7084.9
7309.2
7491.9
7663.6
7857.4
8059.5
8283.7
8618.7
9017.4
9488.1
10066.7
10681.4
11329.2
12049.1
12777.2
13486.0
14203.0
14914.6
15576.3
16082.9
16595.1
17198.7
17782.9
18516.6
15806.1
9396.7
1647.3
479.0
210.4
69.2
0.0

OF REPORT)