

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: P957476

Luminaire Tested: **GALN-SB9D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957476
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-SB9D-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82995 lumens
Efficiency: N/A
Efficacy: 126.1 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

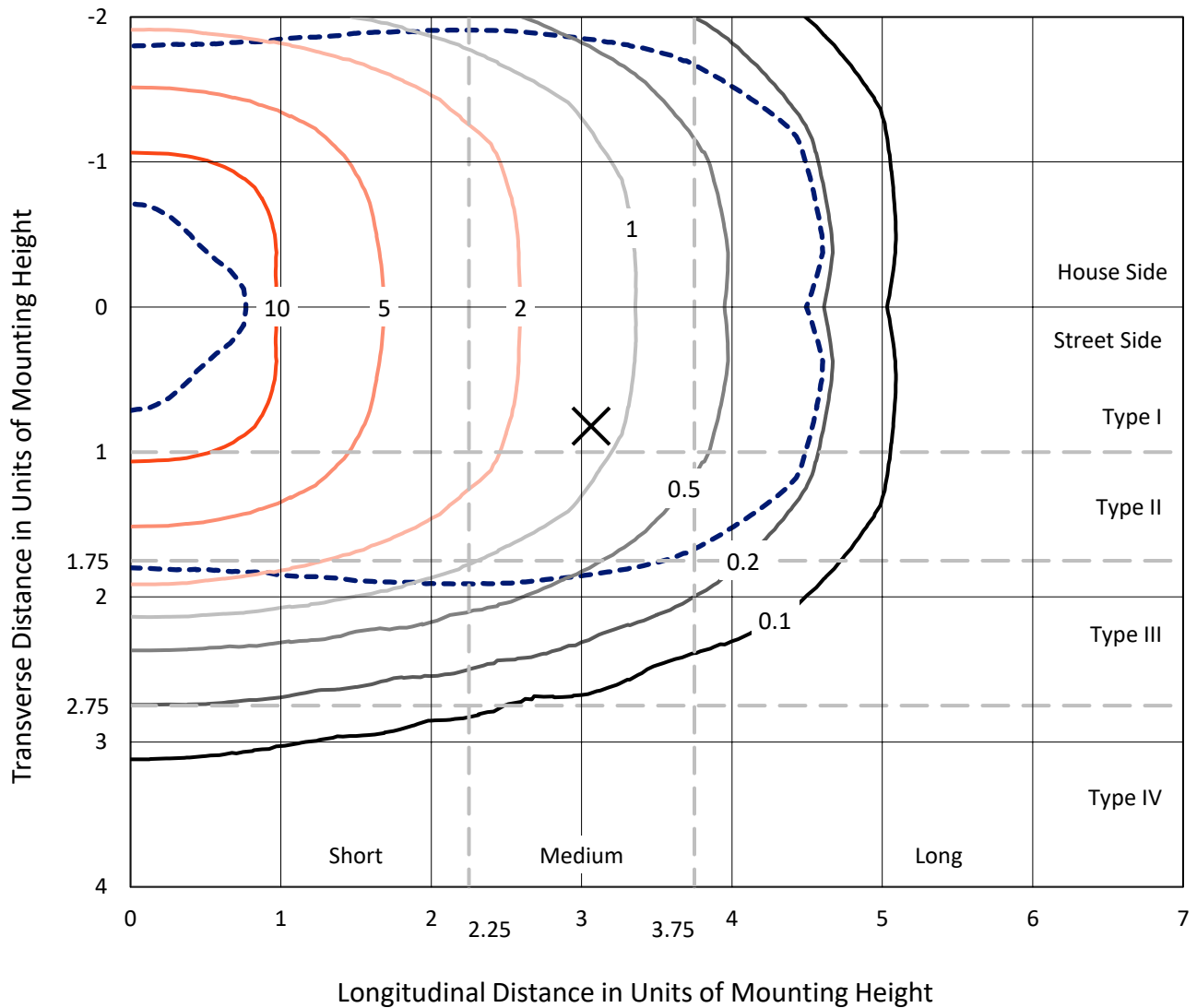
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

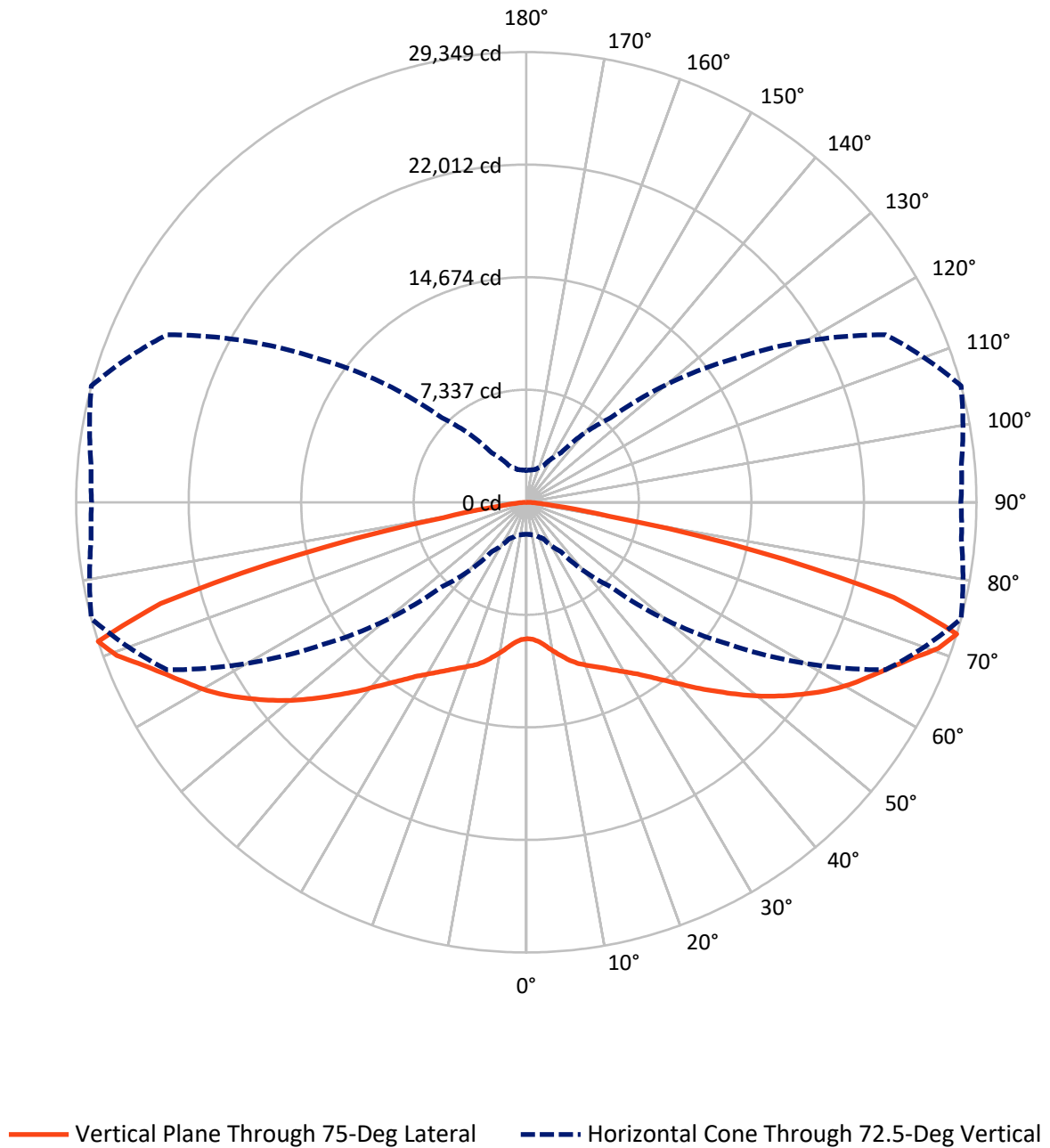
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	41497.5	0.0	41497.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	41497.5	0.0	41497.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	82995.0	0.0	82995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.9	1.0
10°-20°	2872.3	3.5
20°-30°	5550.2	6.7
30°-40°	9371.8	11.3
40°-50°	14862.6	17.9
50°-60°	19899.3	24.0
60°-70°	18937.8	22.8
70°-80°	9882.1	11.9
80°-90°	748.0	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°	82995.0	100.0
0°-180°	82995.0	100.0

Coefficient of Utilization



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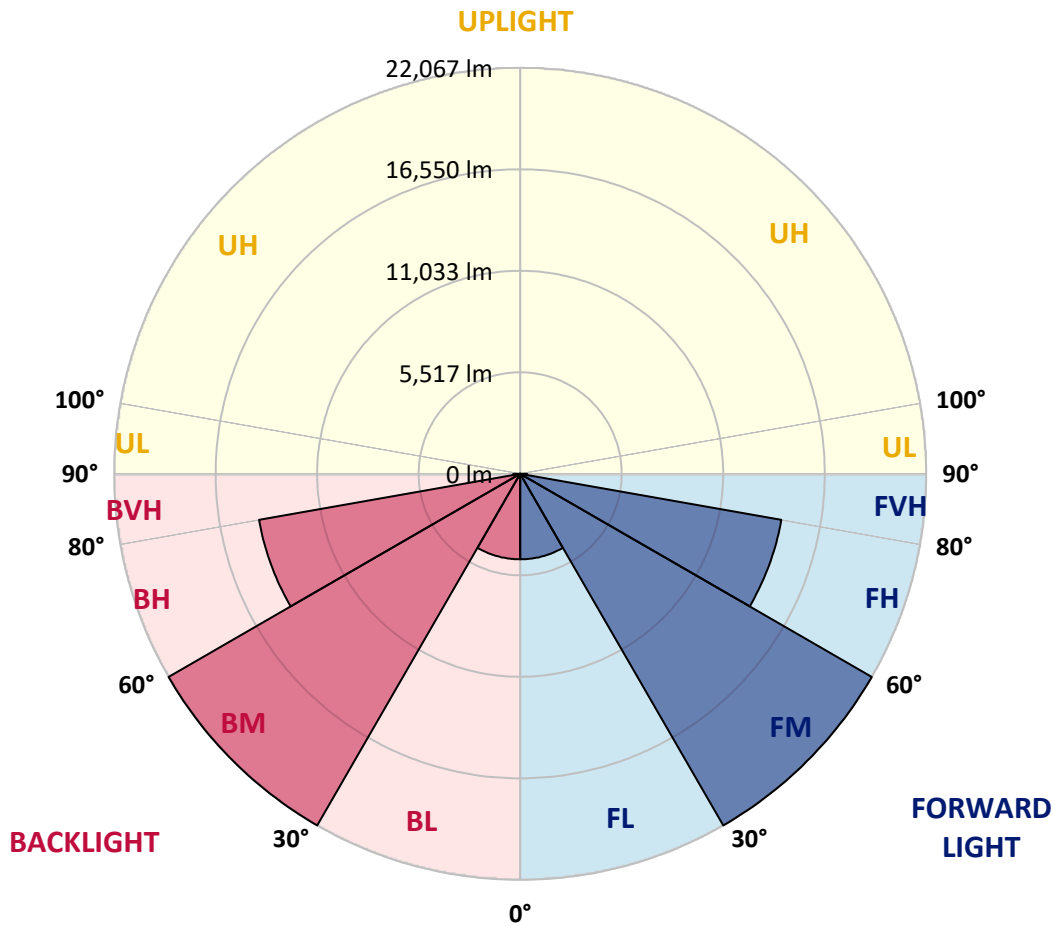
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4646.7	5.6			
FM (30°-60°)	22066.9	26.6			
FH (60°-80°)	14409.9	17.4			G5
FVH (80°-90°)	374.0	0.5			G3/500
BL (0°-30°)	4646.7	5.6	B4/5000		
BM (30°-60°)	22066.9	26.6	B5		
BH (60°-80°)	14409.9	17.4	B5		G5
BVH (80°-90°)	374.0	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°	8890.3	8890.3	8890.3	8890.3	8890.3	8890.3	8890.3	8890.3	8890.3	8890.3
2.5°	8890.3	8881.8	8890.3	8898.7	8894.5	8894.5	8915.7	8928.4	8953.8	8949.6
5°	8830.9	8826.7	8860.6	8898.7	8928.4	8979.2	9042.8	9089.4	9148.7	9161.4
7.5°	8801.3	8788.6	8847.9	8915.7	9008.9	9136.0	9258.9	9386.0	9487.7	9521.6
10°	8822.5	8826.7	8907.2	9034.3	9182.6	9360.6	9534.3	9750.5	9894.5	9928.4
12.5°	8919.9	8911.4	9047.0	9250.4	9453.8	9678.4	9881.8	10119.1	10275.9	10356.4
15°	9097.9	9080.9	9271.6	9572.5	9869.1	10131.8	10297.1	10521.7	10703.9	10805.6
17.5°	9309.8	9318.2	9568.2	9958.1	10347.9	10644.6	10801.4	10915.8	11055.6	11144.6
20°	9682.7	9699.6	9979.3	10441.2	10886.1	11225.1	11352.2	11309.9	11348.0	11415.8
22.5°	10182.7	10191.2	10504.7	11004.8	11470.9	11843.8	11928.5	11754.8	11648.9	11695.5
25°	10763.2	10818.3	11131.9	11644.6	12123.5	12479.4	12517.5	12254.8	11992.1	12004.8
27.5°	11470.9	11521.7	11839.5	12348.0	12835.4	13144.7	13140.5	12788.7	12403.1	12305.7
30°	12237.9	12293.0	12619.2	13144.7	13598.1	13869.3	13810.0	13390.5	12839.6	12657.4
32.5°	13148.9	13182.8	13513.3	14038.8	14458.3	14674.4	14551.5	14034.6	13348.1	13140.5
35°	14250.7	14301.5	14547.3	15043.1	15411.7	15589.7	15382.1	14771.9	14000.7	13767.6
37.5°	15509.2	15475.3	15755.0	16195.7	16500.8	16611.0	16327.0	15602.4	14746.5	14471.0
40°	16822.8	16805.9	17111.0	17534.7	17700.0	17767.8	17348.3	16555.9	15606.7	15310.0
42.5°	18013.6	18000.8	18411.9	18882.2	19081.4	19005.1	18475.4	17568.6	16602.5	16263.5
45°	18967.0	18950.0	19454.3	20115.4	20505.2	20378.1	19666.2	18687.3	17611.0	17259.3
47.5°	19700.1	19708.6	20251.0	21068.8	21751.0	21797.6	20882.3	19827.2	18721.2	18322.9
50°	20229.8	20255.2	20835.7	21742.6	22674.8	23085.8	22123.9	20996.8	19869.6	19420.4
52.5°	20361.1	20407.7	21106.9	22170.5	23268.0	24052.0	23386.7	22119.7	20958.6	20530.6
55°	19661.9	19755.2	20640.8	22136.6	23632.5	24687.6	24496.9	23259.6	22056.1	21615.4
57.5°	18055.9	18187.3	19221.2	21174.7	23552.0	25124.1	25357.1	24352.8	23153.6	22729.9
60°	15805.8	15962.6	16954.2	19085.6	22416.3	25285.1	25963.1	25416.5	24162.2	23751.1
62.5°	12411.6	12615.0	13801.5	16301.6	20017.9	24535.1	26480.1	26378.4	25069.0	24556.2
65°	7962.2	8178.4	9428.4	12381.9	16818.6	22238.3	26641.1	27314.8	26026.7	25310.5
67.5°	4801.1	4898.5	5517.2	7504.6	12293.0	18776.3	25276.6	28353.0	27145.3	26255.5
70°	3072.2	3127.3	3495.9	4407.0	6949.5	13699.8	21895.1	28548.0	28501.3	27225.9
72.5°	2084.8	2101.8	2199.3	2610.3	3932.4	7784.3	16149.1	25844.4	29348.8	28475.9
75°	1525.5	1618.7	1775.5	1847.5	2233.2	3890.0	9254.7	18157.6	24734.2	25115.6
77.5°	1135.6	1139.9	1356.0	1440.7	1593.3	2072.1	3915.4	10136.1	15356.7	16123.6
80°	961.9	911.1	906.8	1161.1	1199.2	1292.4	1750.1	3500.2	5500.3	3334.9
82.5°	800.9	745.8	673.8	906.8	817.8	792.4	758.5	1423.8	1750.1	860.2
85°	559.3	533.9	508.5	593.2	466.1	398.3	364.4	665.3	737.3	364.4
87.5°	241.5	250.0	254.2	262.7	194.9	139.8	139.8	186.4	186.4	144.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8890.3
8945.3
9161.4
9530.1
9962.3
10390.3
10843.7
11187.0
11466.6
11729.4
12026.0
12335.3
12678.6
13191.3
13801.5
14521.9
15407.5
16348.2
17339.8
18441.5
19556.0
20640.8
21738.3
22827.3
23840.1
24615.6
25399.5
26323.3
27217.4
28340.3
24191.8
14382.0
2521.3
733.1
322.0
105.9
0.0

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