

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: P950336

Luminaire Tested: **GALN-SB4D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950336
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-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 36519 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

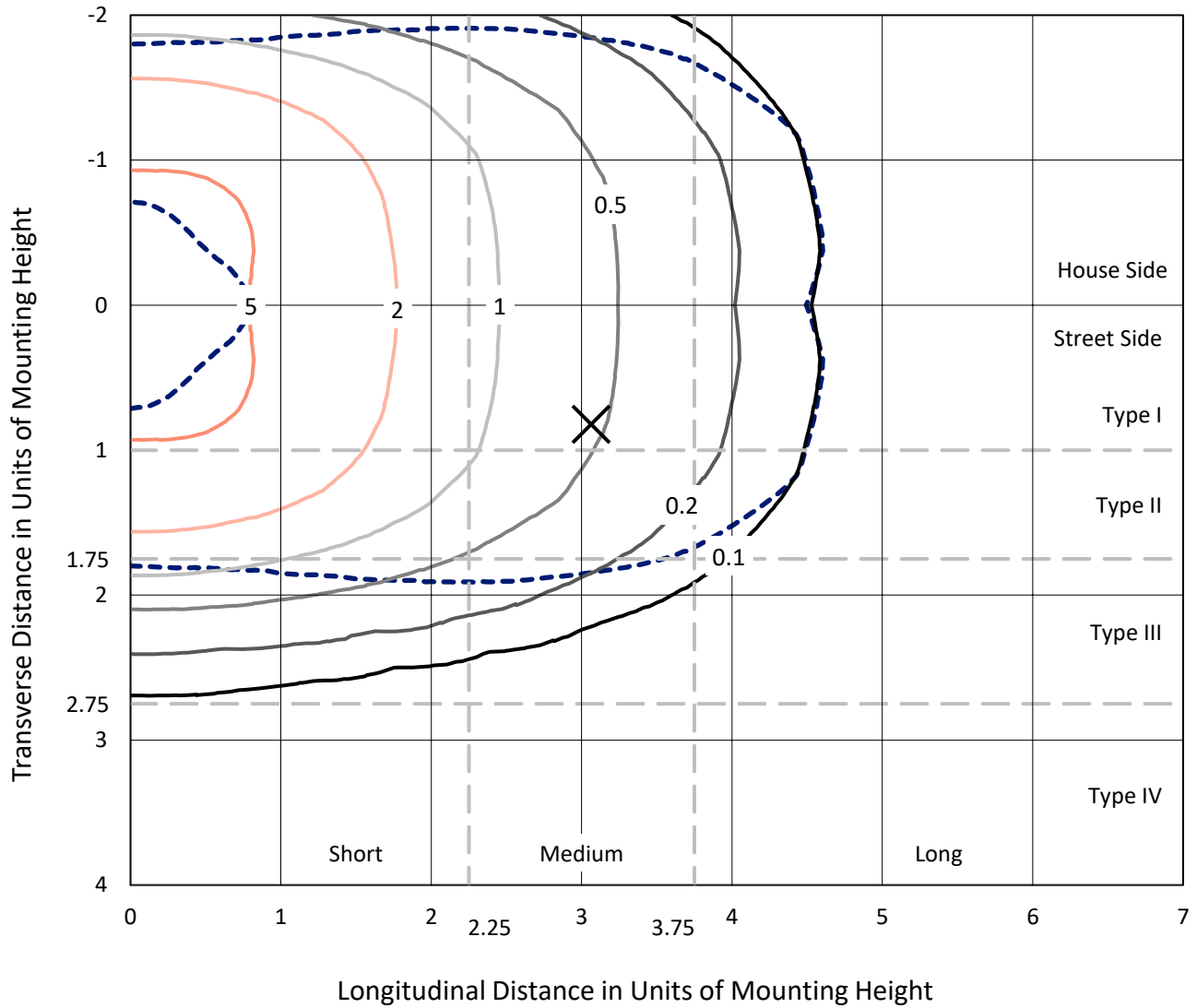
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

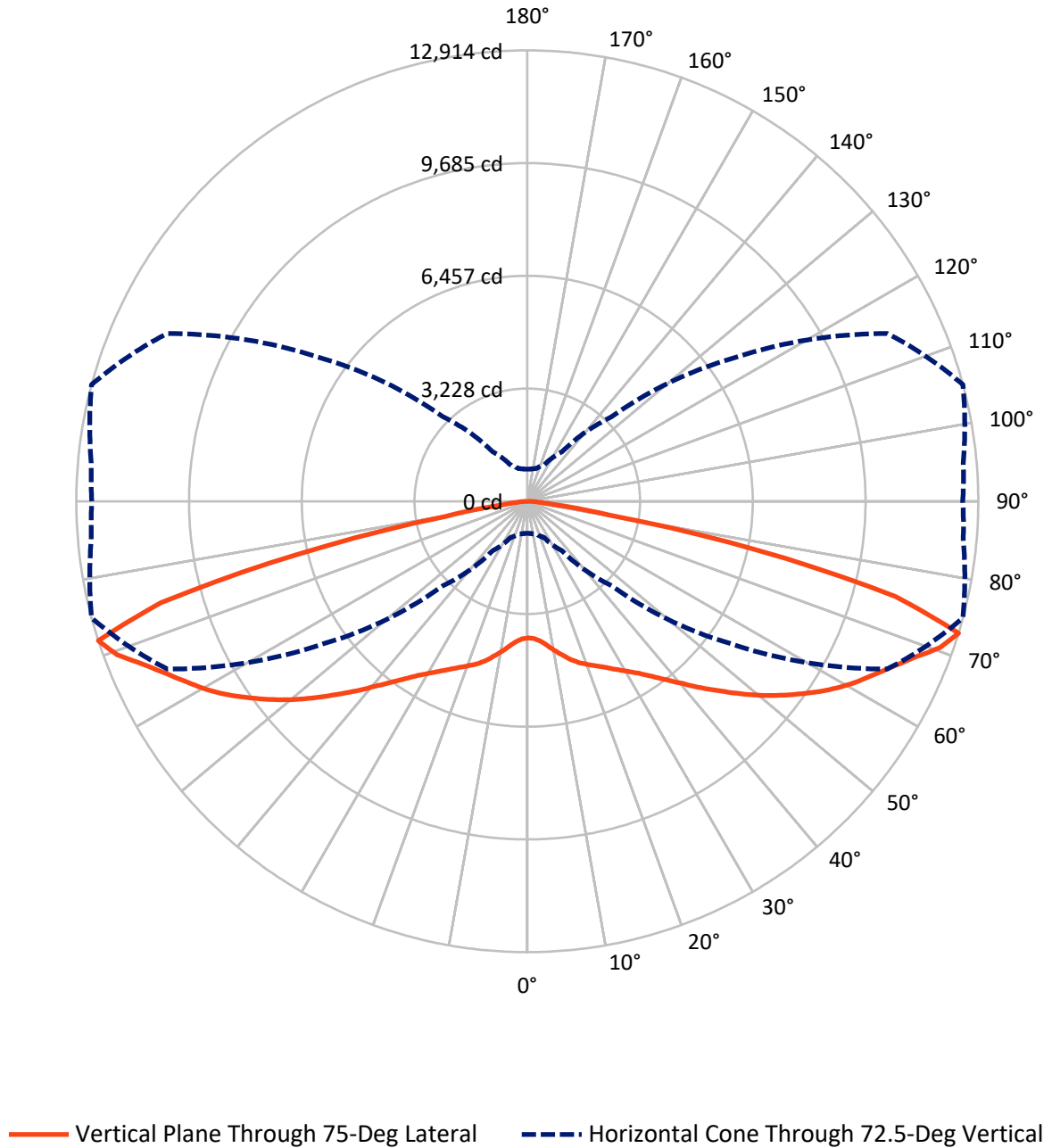
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	18259.5	0.0	18259.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18259.5	0.0	18259.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36519.0	0.0	36519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	1.0
10°-20°	1263.9	3.5
20°-30°	2442.2	6.7
30°-40°	4123.7	11.3
40°-50°	6539.8	17.9
50°-60°	8756.0	24.0
60°-70°	8332.9	22.8
70°-80°	4348.2	11.9
80°-90°	329.1	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°	36519.0	100.0
0°-180°	36519.0	100.0

Coefficient of Utilization

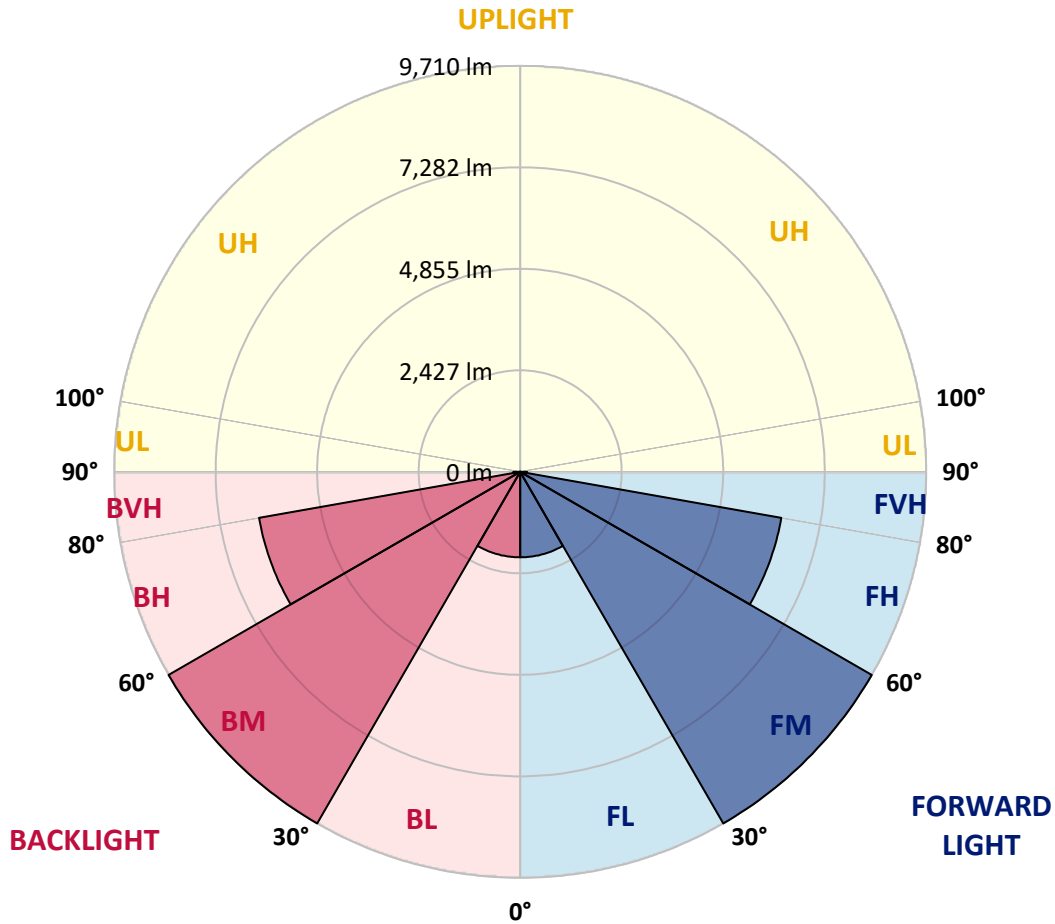


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.6	5.6			
FM (30°-60°)	9709.8	26.6			
FH (60°-80°)	6340.6	17.4			G3/7500
FVH (80°-90°)	164.6	0.5			G2/225
BL (0°-30°)	2044.6	5.6	B3/2500		
BM (30°-60°)	9709.8	26.6	B5		
BH (60°-80°)	6340.6	17.4	B5		G5
BVH (80°-90°)	164.6	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°
0°	3911.8	3911.8	3911.8	3911.8	3911.8	3911.8	3911.8	3911.8	3911.8	3911.8
2.5°	3911.8	3908.1	3911.8	3915.6	3913.7	3913.7	3923.0	3928.6	3939.8	3937.9
5°	3885.7	3883.9	3898.8	3915.6	3928.6	3951.0	3979.0	3999.5	4025.6	4031.2
7.5°	3872.7	3867.1	3893.2	3923.0	3964.0	4020.0	4074.1	4130.0	4174.7	4189.7
10°	3882.0	3883.9	3919.3	3975.2	4040.5	4118.8	4195.3	4290.3	4353.7	4368.7
12.5°	3924.9	3921.2	3980.8	4070.3	4159.8	4258.6	4348.1	4452.6	4521.5	4557.0
15°	4003.2	3995.7	4079.6	4212.0	4342.6	4458.2	4530.9	4629.7	4709.9	4754.6
17.5°	4096.4	4100.2	4210.2	4381.7	4553.2	4683.8	4752.8	4803.1	4864.6	4903.8
20°	4260.5	4268.0	4391.0	4594.3	4790.0	4939.2	4995.1	4976.5	4993.3	5023.1
22.5°	4480.5	4484.3	4622.2	4842.3	5047.4	5211.4	5248.7	5172.3	5125.7	5146.2
25°	4736.0	4760.2	4898.2	5123.8	5334.5	5491.1	5507.9	5392.3	5276.7	5282.3
27.5°	5047.4	5069.7	5209.6	5433.3	5647.7	5783.9	5782.0	5627.2	5457.6	5414.7
30°	5384.8	5409.1	5552.6	5783.9	5983.4	6102.7	6076.6	5892.0	5649.6	5569.4
32.5°	5785.7	5800.6	5946.1	6177.3	6361.9	6457.0	6402.9	6175.4	5873.4	5782.0
35°	6270.5	6292.9	6401.0	6619.2	6781.4	6859.7	6768.3	6499.8	6160.5	6057.9
37.5°	6824.3	6809.4	6932.4	7126.3	7260.6	7309.1	7184.1	6865.3	6488.7	6367.5
40°	7402.3	7394.8	7529.1	7715.5	7788.3	7818.1	7633.5	7284.8	6867.2	6736.6
42.5°	7926.2	7920.6	8101.5	8308.5	8396.1	8362.5	8129.5	7730.4	7305.3	7156.2
45°	8345.8	8338.3	8560.2	8851.0	9022.6	8966.7	8653.4	8222.7	7749.1	7594.3
47.5°	8668.3	8672.1	8910.7	9270.6	9570.8	9591.3	9188.5	8724.3	8237.6	8062.3
50°	8901.4	8912.6	9168.0	9567.0	9977.2	10158.1	9734.8	9238.9	8742.9	8545.3
52.5°	8959.2	8979.7	9287.4	9755.4	10238.3	10583.2	10290.5	9733.0	9222.1	9033.8
55°	8651.5	8692.6	9082.3	9740.4	10398.6	10862.9	10779.0	10234.5	9705.0	9511.1
57.5°	7944.9	8002.7	8457.6	9317.2	10363.2	11055.0	11157.5	10715.6	10187.9	10001.5
60°	6954.8	7023.8	7460.1	8398.0	9863.5	11125.8	11424.1	11183.6	10631.7	10450.8
62.5°	5461.3	5550.8	6072.9	7172.9	8808.2	10795.8	11651.6	11606.9	11030.7	10805.1
65°	3503.5	3598.6	4148.6	5448.2	7400.4	9785.2	11722.5	12018.9	11452.1	11137.0
67.5°	2112.5	2155.4	2427.7	3302.1	5409.1	8261.8	11122.1	12475.7	11944.3	11552.8
70°	1351.8	1376.0	1538.3	1939.1	3057.9	6028.1	9634.2	12561.5	12541.0	11979.8
72.5°	917.4	924.8	967.7	1148.6	1730.3	3425.2	7105.8	11371.9	12913.9	12529.8
75°	671.2	712.3	781.2	812.9	982.6	1711.7	4072.2	7989.6	10883.4	11051.2
77.5°	499.7	501.6	596.7	633.9	701.1	911.8	1722.8	4460.0	6757.2	7094.6
80°	423.3	400.9	399.0	510.9	527.7	568.7	770.1	1540.1	2420.2	1467.4
82.5°	352.4	328.2	296.5	399.0	359.9	348.7	333.8	626.5	770.1	378.5
85°	246.1	234.9	223.7	261.0	205.1	175.3	160.4	292.7	324.4	160.4
87.5°	106.3	110.0	111.9	115.6	85.8	61.5	61.5	82.0	82.0	63.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3911.8
3936.1
4031.2
4193.4
4383.6
4571.9
4771.4
4922.4
5045.5
5161.1
5291.6
5427.7
5578.8
5804.4
6072.9
6389.8
6779.5
7193.5
7629.8
8114.5
8604.9
9082.3
9565.2
10044.4
10490.0
10831.2
11176.1
11582.6
11976.0
12470.2
10644.8
6328.3
1109.4
322.6
141.7
46.6
0.0

OF REPORT)