

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: P951047

Luminaire Tested: **GALN-SB5B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25919 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

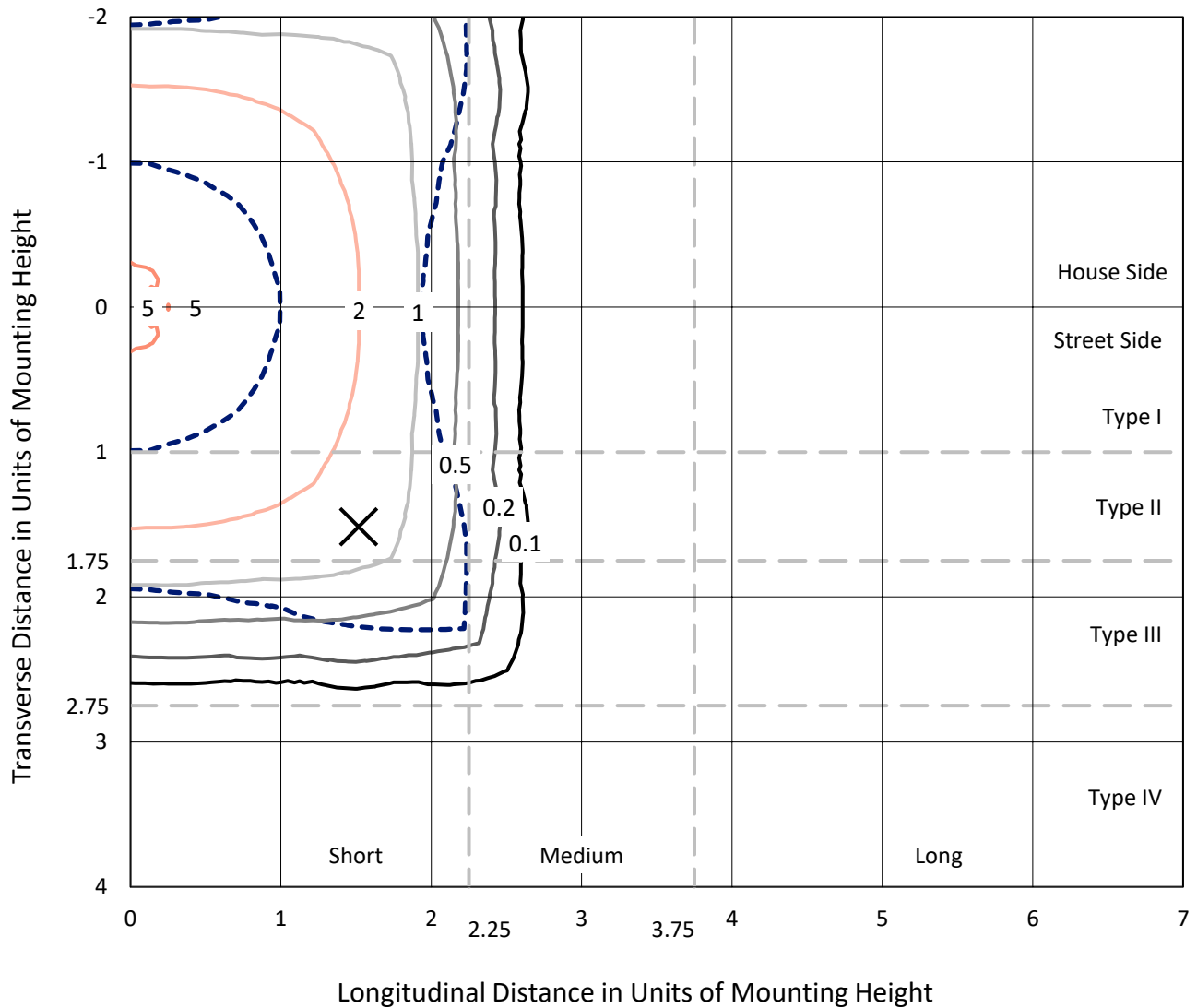
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

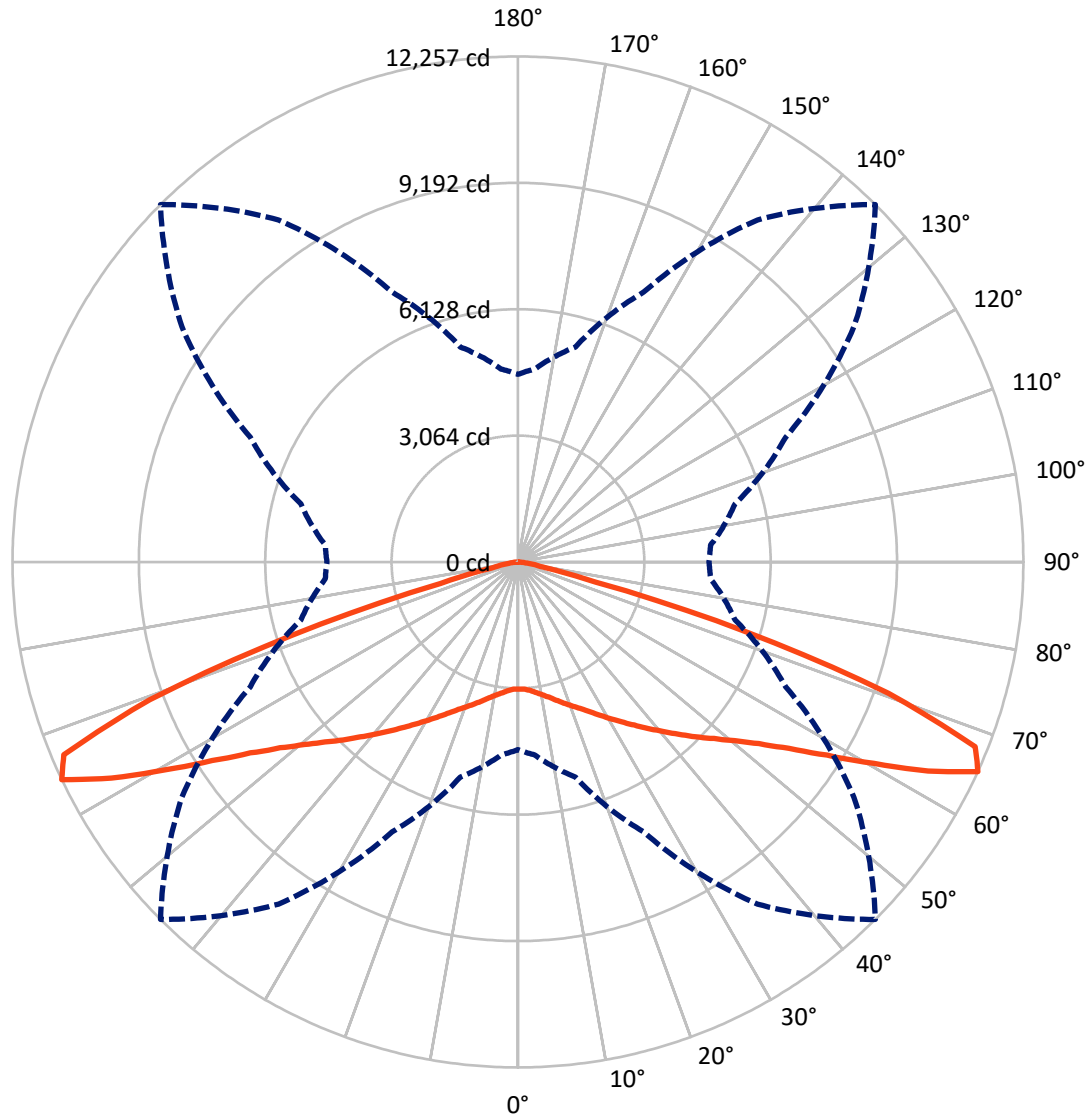
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12959.5	0.0	12959.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12959.5	0.0	12959.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25919.0	0.0	25919.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	1.2
10°-20°	993.4	3.8
20°-30°	1875.6	7.2
30°-40°	3071.2	11.8
40°-50°	4761.9	18.4
50°-60°	7034.3	27.1
60°-70°	6696.0	25.8
70°-80°	1080.5	4.2
80°-90°	101.8	0.4
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°	25919.0	100.0
0°-180°	25919.0	100.0



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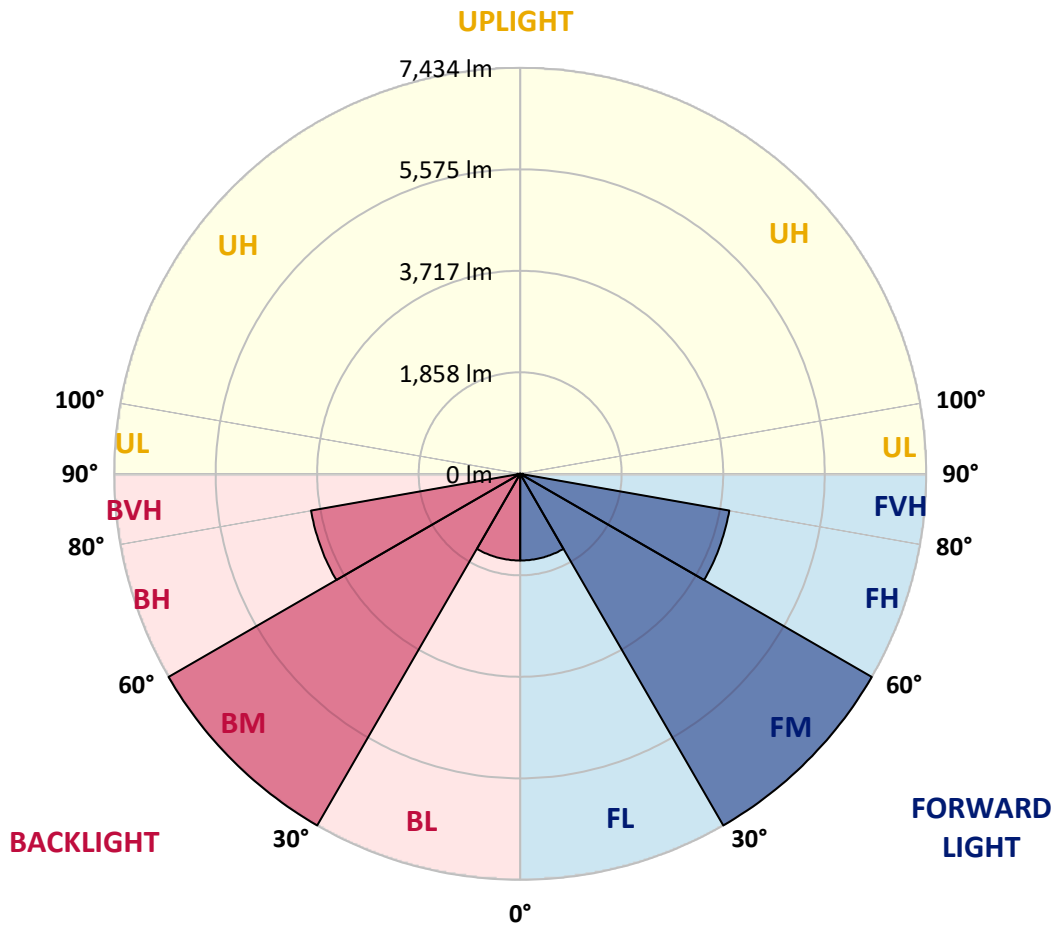
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.7	6.1			
FM (30°-60°)	7433.7	28.7			
FH (60°-80°)	3888.2	15.0			G2/5000
FVH (80°-90°)	50.9	0.2			G1/100
BL (0°-30°)	1586.7	6.1	B3/2500		
BM (30°-60°)	7433.7	28.7	B4/8500		
BH (60°-80°)	3888.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	50.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6
2.5°	3105.4	3095.0	3102.8	3096.3	3091.1	3085.9	3088.5	3097.6	3101.5	3102.8
5°	3147.0	3137.9	3141.8	3141.8	3132.7	3130.1	3131.4	3137.9	3145.7	3145.7
7.5°	3214.7	3205.6	3214.7	3209.5	3201.7	3199.1	3197.8	3203.0	3214.7	3214.7
10°	3296.6	3286.2	3291.4	3288.8	3279.7	3275.8	3274.5	3282.3	3292.7	3291.4
12.5°	3386.3	3374.6	3381.1	3373.3	3370.7	3366.8	3366.8	3365.5	3372.0	3366.8
15°	3486.5	3478.7	3481.3	3476.0	3480.0	3477.4	3466.9	3461.7	3464.3	3456.5
17.5°	3604.8	3586.6	3595.7	3593.1	3593.1	3598.3	3581.4	3574.9	3580.1	3572.3
20°	3741.3	3723.1	3727.0	3721.8	3715.3	3720.5	3699.7	3704.9	3708.8	3703.6
22.5°	3890.9	3867.5	3866.2	3868.8	3854.5	3855.8	3841.5	3854.5	3862.3	3848.0
25°	4044.3	4019.6	4036.5	4030.0	4011.8	4015.7	4005.3	4018.3	4024.8	4006.6
27.5°	4206.9	4190.0	4205.6	4209.5	4187.4	4203.0	4187.4	4199.1	4205.6	4178.3
30°	4396.8	4379.8	4394.2	4404.6	4378.5	4403.3	4390.3	4398.1	4399.4	4366.8
32.5°	4603.5	4577.5	4613.9	4619.1	4590.5	4620.4	4603.5	4613.9	4620.4	4576.2
35°	4855.8	4823.3	4864.9	4858.4	4833.7	4858.4	4842.8	4858.4	4874.0	4820.7
37.5°	5127.6	5093.8	5138.0	5126.3	5102.9	5119.8	5110.7	5121.1	5145.8	5088.6
40°	5426.7	5385.1	5444.9	5424.1	5402.0	5399.4	5404.6	5411.1	5443.6	5379.9
42.5°	5746.6	5702.4	5792.1	5759.6	5728.4	5707.6	5724.5	5737.5	5768.7	5697.2
45°	6112.0	6061.3	6178.3	6139.3	6089.9	6047.0	6074.3	6093.8	6139.3	6053.5
47.5°	6515.2	6457.9	6582.8	6571.1	6490.4	6396.8	6459.2	6515.2	6549.0	6444.9
50°	6909.2	6865.0	7028.8	7043.1	6944.3	6813.0	6900.1	6984.6	6993.7	6857.2
52.5°	7278.5	7234.3	7472.3	7562.0	7473.6	7317.5	7409.9	7495.7	7426.8	7249.9
55°	7573.7	7537.3	7840.3	8071.8	8101.7	7972.9	8027.6	8025.0	7798.7	7526.9
57.5°	7645.2	7640.0	8022.4	8512.6	8824.7	8840.3	8732.4	8456.7	7969.0	7603.6
60°	7320.1	7352.6	7878.0	8742.8	9575.1	9921.0	9454.1	8667.4	7775.3	7268.1
62.5°	6347.4	6433.2	7066.5	8461.9	10181.1	11164.2	10032.8	8347.5	6979.4	6317.5
65°	4548.9	4698.5	5398.1	7221.3	10126.4	12256.6	9949.6	7162.8	5450.1	4686.8
67.5°	2063.8	2215.9	2810.2	4944.2	8802.6	11960.1	8781.8	4996.3	2950.7	2223.7
70°	747.7	773.8	964.9	1979.3	5625.7	9529.6	5866.2	1993.6	1026.0	824.5
72.5°	452.5	456.5	496.8	708.7	1954.5	5785.6	2037.8	732.1	507.2	449.9
75°	287.4	284.8	353.7	433.0	693.1	1951.9	726.9	433.0	352.4	321.2
77.5°	206.8	213.3	253.6	323.8	436.9	661.9	429.1	309.5	253.6	208.1
80°	154.8	158.7	184.7	252.3	306.9	412.2	273.1	228.9	191.2	130.0
82.5°	111.8	111.8	120.9	183.4	187.3	222.4	148.2	161.3	126.1	92.3
85°	66.3	65.0	75.4	109.2	97.5	81.9	67.6	98.8	79.3	57.2
87.5°	23.4	24.7	23.4	31.2	26.0	22.1	20.8	27.3	22.1	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3084.6
3102.8
3145.7
3210.8
3288.8
3369.4
3457.8
3578.8
3715.3
3862.3
4027.4
4199.1
4386.4
4606.1
4853.2
5123.7
5400.7
5734.9
6097.7
6480.0
6874.1
7255.1
7536.0
7580.2
7208.3
6278.5
4630.8
2191.2
814.1
457.8
323.8
212.0
133.9
92.3
55.9
18.2
0.0

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