

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: P955331

Luminaire Tested: **GALN-SB8B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955331
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-SB8B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 41491 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

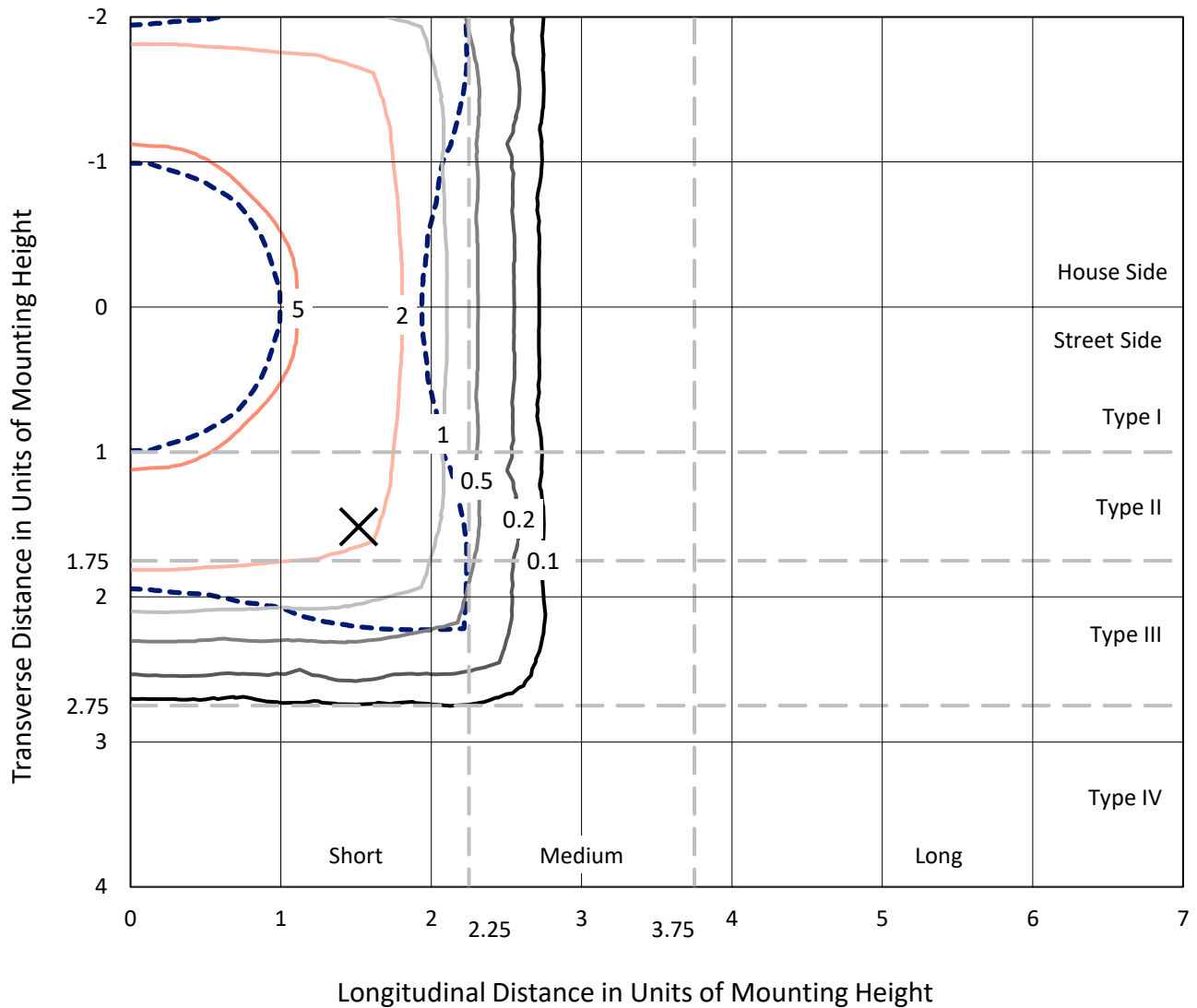
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

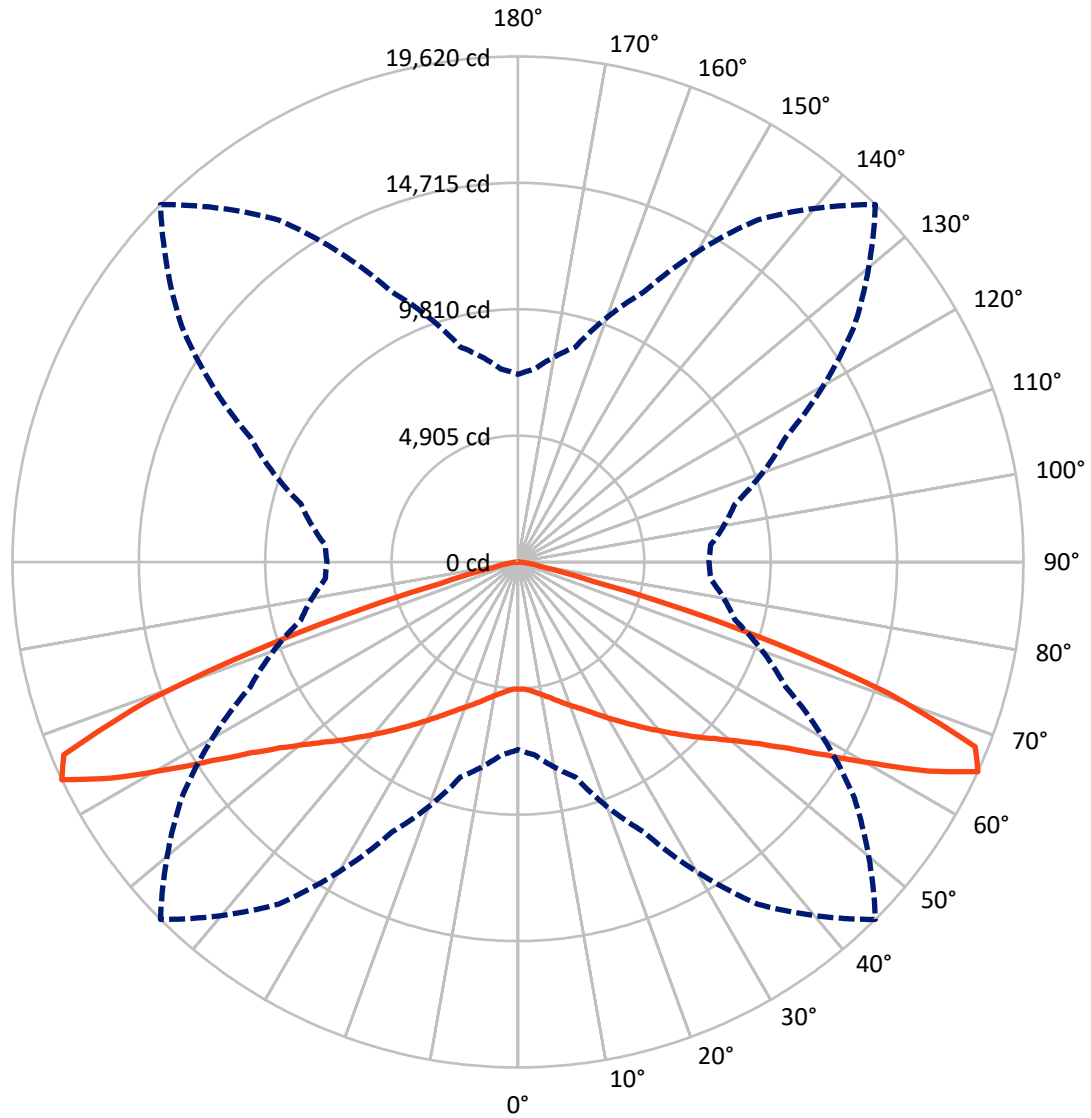
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	20745.5	0.0	20745.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20745.5	0.0	20745.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41491.0	0.0	41491.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	1.2
10°-20°	1590.2	3.8
20°-30°	3002.4	7.2
30°-40°	4916.3	11.8
40°-50°	7622.8	18.4
50°-60°	11260.4	27.1
60°-70°	10718.9	25.8
70°-80°	1729.6	4.2
80°-90°	163.0	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°	41491.0	100.0
0°-180°	41491.0	100.0



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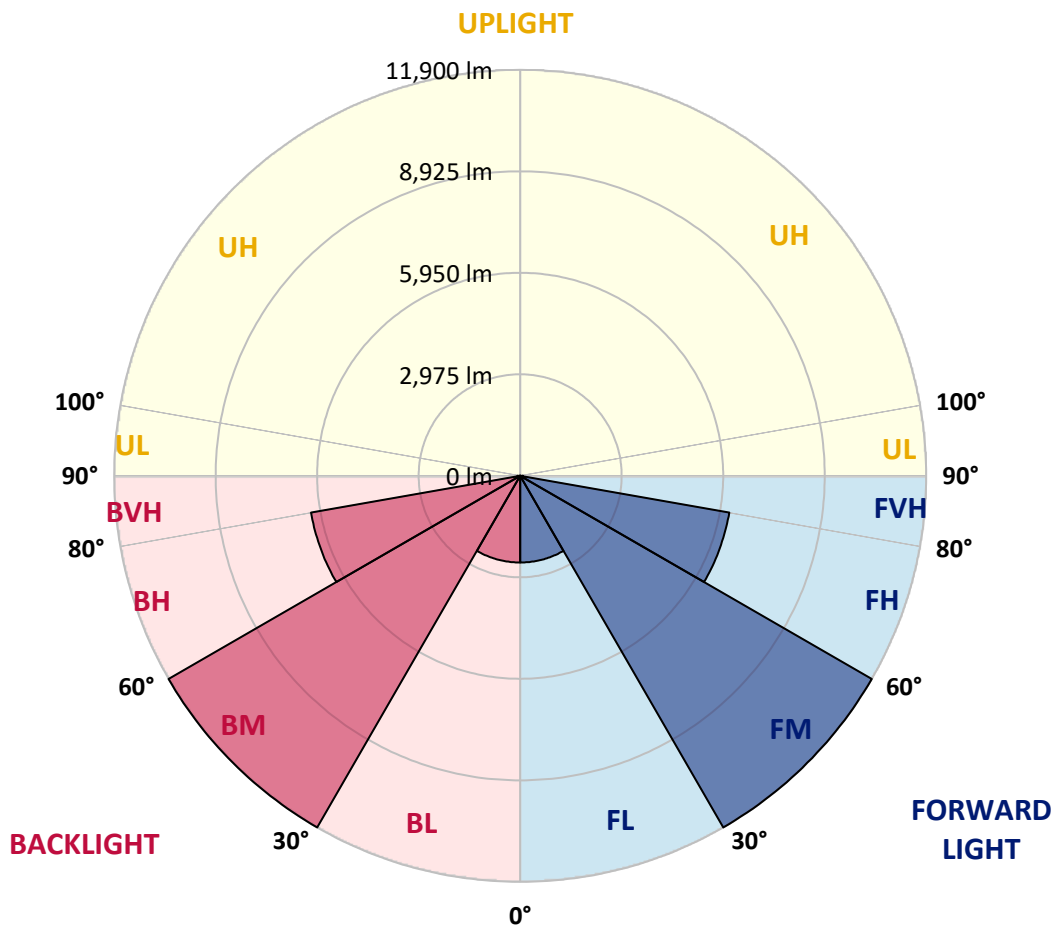
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2539.9	6.1			
FM (30°-60°)	11899.8	28.7			
FH (60°-80°)	6224.3	15.0			G3/7500
FVH (80°-90°)	81.5	0.2			G1/100
BL (0°-30°)	2539.9	6.1	B4/5000		
BM (30°-60°)	11899.8	28.7	B5		
BH (60°-80°)	6224.3	15.0	B5		G3/7500
BVH (80°-90°)	81.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8
2.5°	4971.2	4954.5	4967.0	4956.6	4948.3	4939.9	4944.1	4958.7	4964.9	4967.0
5°	5037.8	5023.2	5029.4	5029.4	5014.9	5010.7	5012.8	5023.2	5035.7	5035.7
7.5°	5146.0	5131.4	5146.0	5137.7	5125.2	5121.0	5119.0	5127.3	5146.0	5146.0
10°	5277.2	5260.5	5268.8	5264.7	5250.1	5243.9	5241.8	5254.3	5270.9	5268.8
12.5°	5420.8	5402.1	5412.5	5400.0	5395.8	5389.6	5389.6	5387.5	5397.9	5389.6
15°	5581.1	5568.6	5572.8	5564.4	5570.7	5566.5	5549.9	5541.5	5545.7	5533.2
17.5°	5770.5	5741.4	5756.0	5751.8	5751.8	5760.1	5733.1	5722.7	5731.0	5718.5
20°	5989.1	5960.0	5966.2	5957.9	5947.5	5955.8	5922.5	5930.8	5937.1	5928.7
22.5°	6228.5	6191.0	6189.0	6193.1	6170.2	6172.3	6149.4	6170.2	6182.7	6159.8
25°	6474.2	6434.6	6461.7	6451.3	6422.1	6428.4	6411.7	6432.5	6442.9	6413.8
27.5°	6734.4	6707.3	6732.3	6738.5	6703.1	6728.1	6703.1	6721.9	6732.3	6688.6
30°	7038.3	7011.2	7034.1	7050.8	7009.2	7048.7	7027.9	7040.4	7042.5	6990.4
32.5°	7369.3	7327.7	7385.9	7394.3	7348.5	7396.4	7369.3	7385.9	7396.4	7325.6
35°	7773.1	7721.1	7787.7	7777.3	7737.8	7777.3	7752.3	7777.3	7802.3	7716.9
37.5°	8208.2	8154.1	8224.9	8206.1	8168.7	8195.7	8181.2	8197.8	8237.4	8145.8
40°	8687.0	8620.4	8716.2	8682.9	8647.5	8643.3	8651.6	8662.0	8714.1	8612.1
42.5°	9199.1	9128.3	9272.0	9219.9	9170.0	9136.7	9163.7	9184.6	9234.5	9120.0
45°	9784.1	9702.9	9890.3	9827.8	9748.7	9680.0	9723.7	9754.9	9827.8	9690.4
47.5°	10429.4	10337.8	10537.7	10518.9	10389.9	10240.0	10339.9	10429.4	10483.6	10317.0
50°	11060.2	10989.4	11251.7	11274.6	11116.4	10906.1	11045.6	11180.9	11195.5	10976.9
52.5°	11651.4	11580.6	11961.6	12105.2	11963.7	11713.8	11861.7	11999.0	11888.7	11605.6
55°	12123.9	12065.7	12550.7	12921.2	12969.1	12763.0	12850.5	12846.3	12484.1	12049.0
57.5°	12238.4	12230.1	12842.1	13627.0	14126.6	14151.5	13978.8	13537.4	12756.8	12171.8
60°	11718.0	11770.1	12611.1	13995.4	15327.7	15881.5	15134.1	13874.7	12446.6	11634.7
62.5°	10160.9	10298.3	11312.1	13545.8	16297.8	17871.6	16060.5	13362.6	11172.6	10113.0
65°	7281.9	7521.3	8641.2	11559.8	16210.4	19620.2	15927.3	11466.1	8724.5	7502.5
67.5°	3303.7	3547.3	4498.6	7914.7	14091.2	19145.6	14057.9	7998.0	4723.4	3559.7
70°	1197.0	1238.6	1544.6	3168.4	9005.5	15254.9	9390.6	3191.3	1642.5	1319.8
72.5°	724.4	730.7	795.2	1134.5	3128.8	9261.6	3262.1	1172.0	811.9	720.3
75°	460.1	455.9	566.2	693.2	1109.6	3124.7	1163.7	693.2	564.1	514.2
77.5°	331.0	341.4	405.9	518.3	699.5	1059.6	687.0	495.4	405.9	333.1
80°	247.7	254.0	295.6	403.9	491.3	659.9	437.2	366.4	306.0	208.2
82.5°	179.0	179.0	193.6	293.5	299.8	356.0	237.3	258.1	201.9	147.8
85°	106.2	104.1	120.7	174.9	156.1	131.1	108.2	158.2	127.0	91.6
87.5°	37.5	39.6	37.5	50.0	41.6	35.4	33.3	43.7	35.4	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4937.8
4967.0
5035.7
5139.8
5264.7
5393.7
5535.3
5728.9
5947.5
6182.7
6447.1
6721.9
7021.6
7373.5
7769.0
8202.0
8645.4
9180.4
9761.2
10373.2
11004.0
11613.9
12063.6
12134.4
11539.0
10050.6
7413.0
3507.7
1303.2
732.8
518.3
339.3
214.4
147.8
89.5
29.1
0.0

OF REPORT)