

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: P950438

Luminaire Tested: **GALN-SB4D-927-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950438
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-SB4D-927-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26013 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

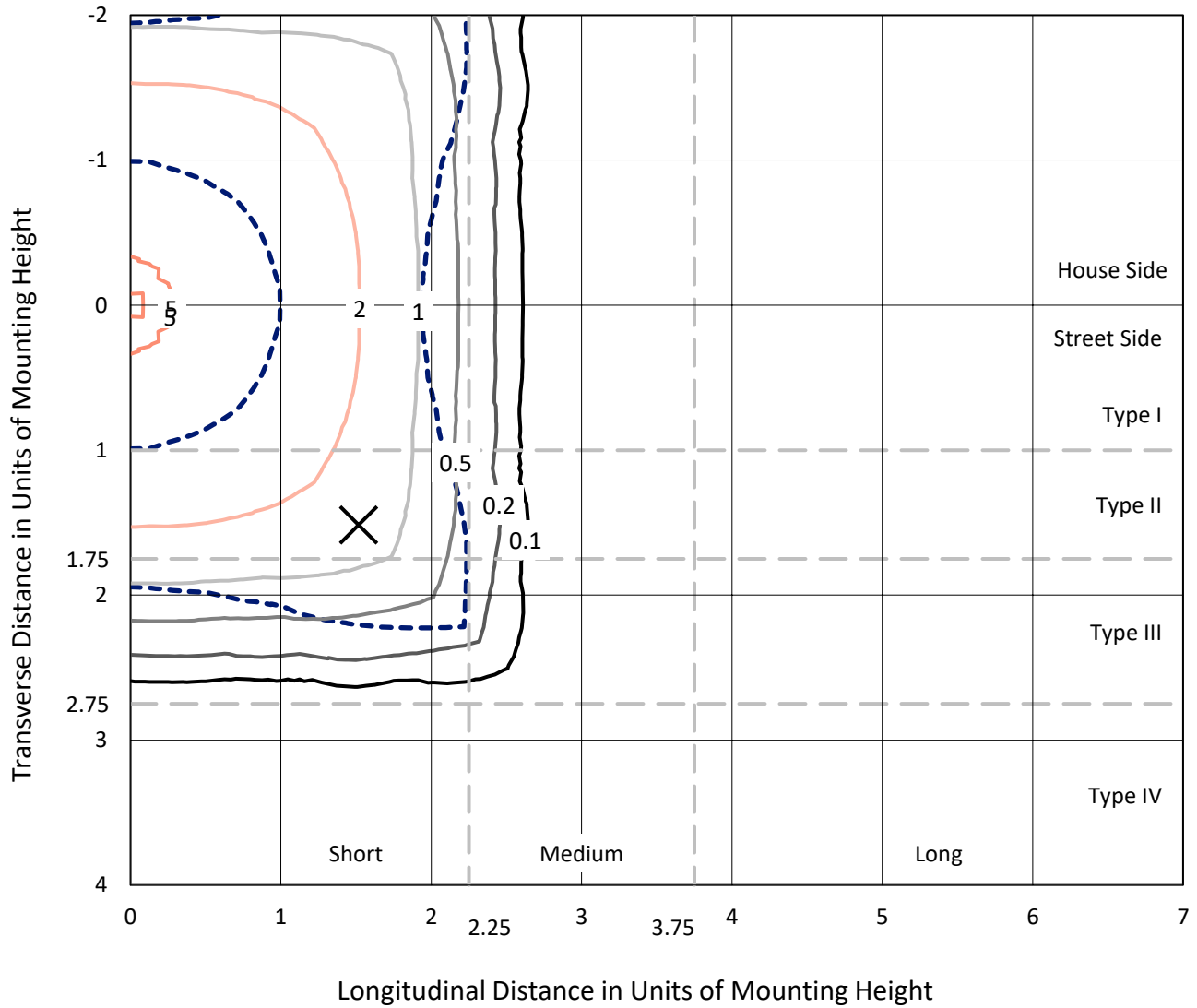
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

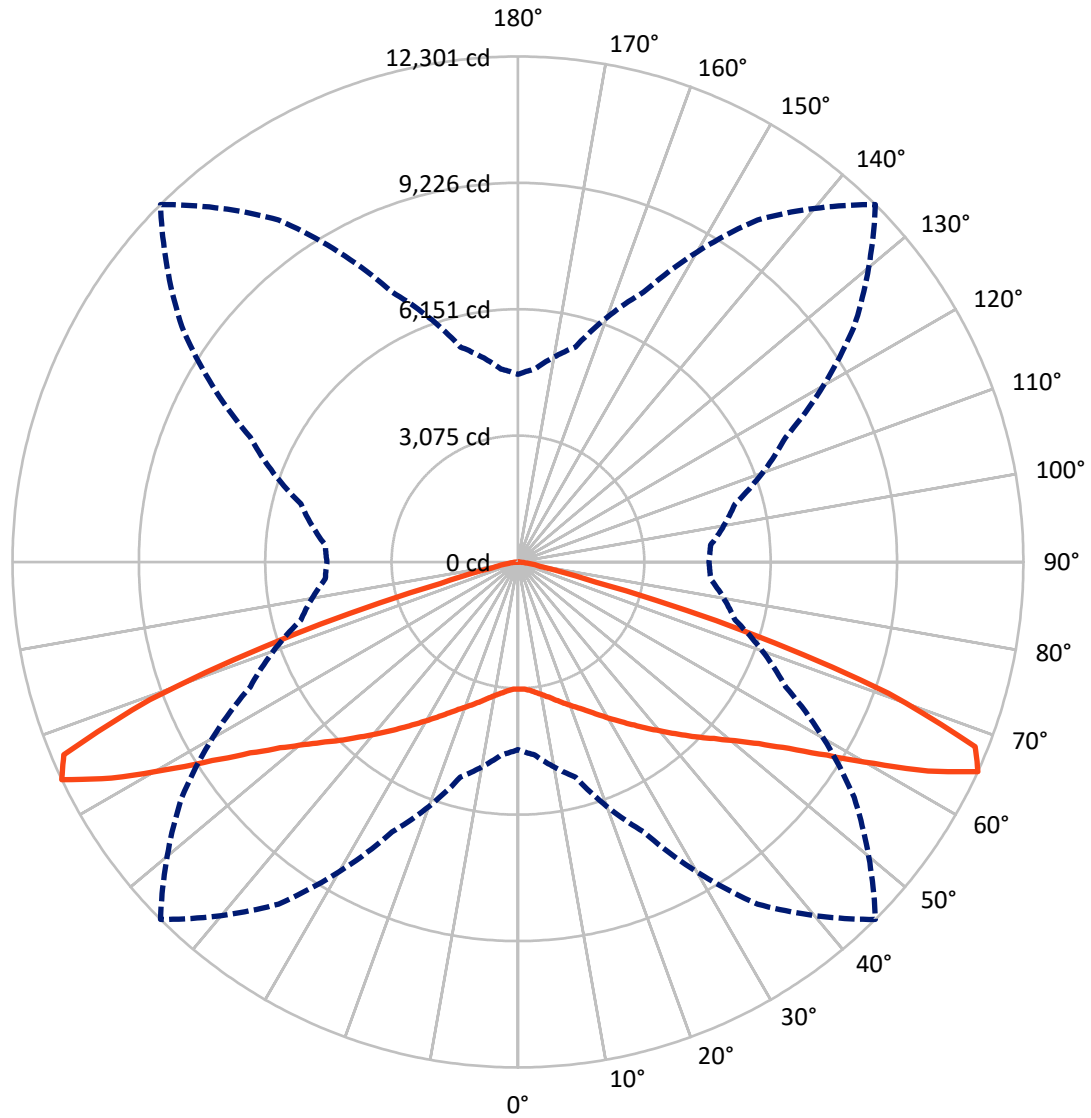
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	13006.5	0.0	13006.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13006.5	0.0	13006.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26013.0	0.0	26013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	1.2
10°-20°	997.0	3.8
20°-30°	1882.4	7.2
30°-40°	3082.3	11.8
40°-50°	4779.2	18.4
50°-60°	7059.8	27.1
60°-70°	6720.3	25.8
70°-80°	1084.4	4.2
80°-90°	102.2	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°	26013.0	100.0
0°-180°	26013.0	100.0

Coefficient of Utilization



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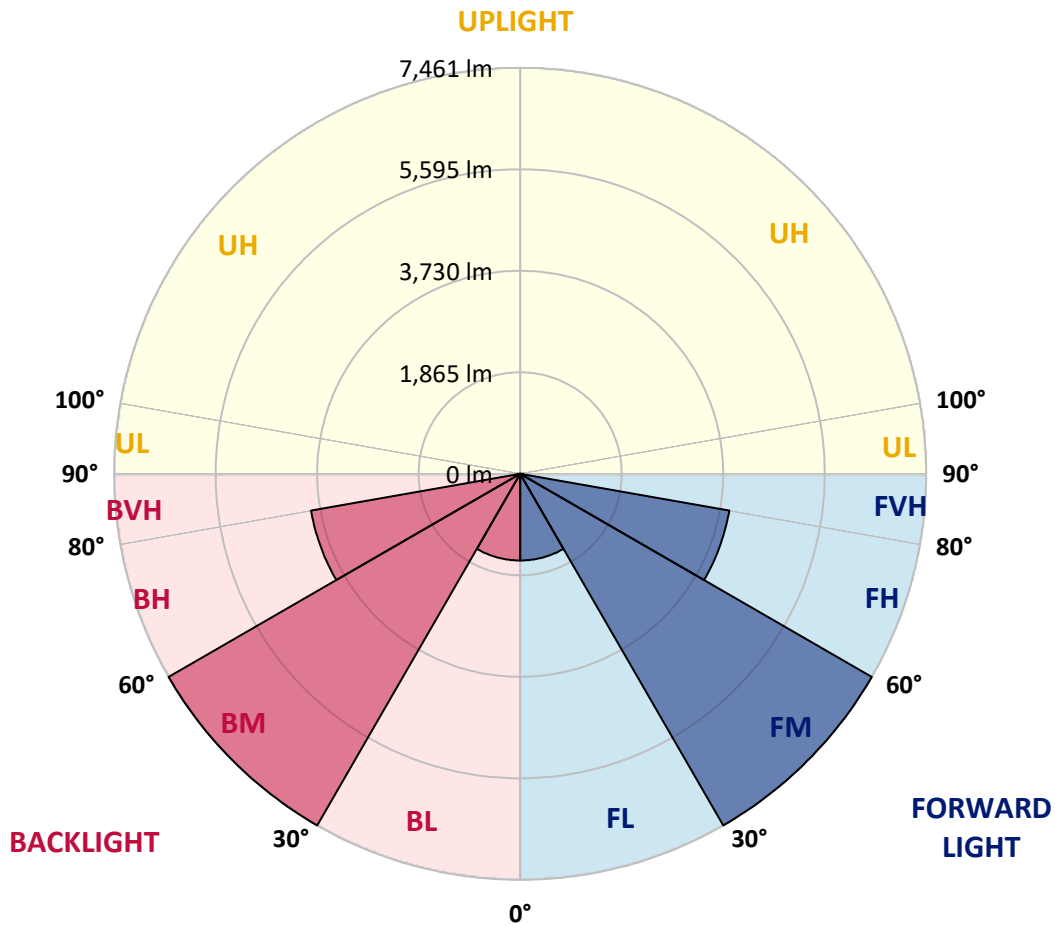
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.4	6.1			
FM (30°-60°)	7460.6	28.7			
FH (60°-80°)	3902.3	15.0			G2/5000
FVH (80°-90°)	51.1	0.2			G1/100
BL (0°-30°)	1592.4	6.1	B3/2500		
BM (30°-60°)	7460.6	28.7	B4/8500		
BH (60°-80°)	3902.3	15.0	B4/5000		G2/5000
BVH (80°-90°)	51.1	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°	3095.8	3095.8	3095.8	3095.8	3095.8	3095.8	3095.8	3095.8	3095.8	3095.8
2.5°	3116.7	3106.2	3114.1	3107.6	3102.3	3097.1	3099.7	3108.9	3112.8	3114.1
5°	3158.5	3149.3	3153.2	3153.2	3144.1	3141.5	3142.8	3149.3	3157.1	3157.1
7.5°	3226.3	3217.2	3226.3	3221.1	3213.3	3210.7	3209.4	3214.6	3226.3	3226.3
10°	3308.5	3298.1	3303.3	3300.7	3291.6	3287.7	3286.4	3294.2	3304.6	3303.3
12.5°	3398.6	3386.9	3393.4	3385.5	3382.9	3379.0	3379.0	3377.7	3384.2	3379.0
15°	3499.1	3491.3	3493.9	3488.7	3492.6	3490.0	3479.5	3474.3	3476.9	3469.1
17.5°	3617.9	3599.6	3608.7	3606.1	3606.1	3611.3	3594.4	3587.8	3593.1	3585.2
20°	3754.9	3736.6	3740.5	3735.3	3728.8	3734.0	3713.1	3718.4	3722.3	3717.1
22.5°	3905.0	3881.5	3880.2	3882.8	3868.5	3869.8	3855.4	3868.5	3876.3	3861.9
25°	4059.0	4034.2	4051.2	4044.6	4026.4	4030.3	4019.9	4032.9	4039.4	4021.2
27.5°	4222.1	4205.2	4220.8	4224.8	4202.6	4218.2	4202.6	4214.3	4220.8	4193.4
30°	4412.7	4395.7	4410.1	4420.5	4394.4	4419.2	4406.2	4414.0	4415.3	4382.7
32.5°	4620.2	4594.1	4630.7	4635.9	4607.2	4637.2	4620.2	4630.7	4637.2	4592.8
35°	4873.4	4840.8	4882.6	4876.0	4851.2	4876.0	4860.4	4876.0	4891.7	4838.2
37.5°	5146.2	5112.3	5156.6	5144.9	5121.4	5138.4	5129.2	5139.7	5164.5	5107.0
40°	5446.4	5404.6	5464.6	5443.8	5421.6	5419.0	5424.2	5430.7	5463.3	5399.4
42.5°	5767.4	5723.1	5813.1	5780.5	5749.2	5728.3	5745.3	5758.3	5789.6	5717.8
45°	6134.2	6083.3	6200.8	6161.6	6112.0	6068.9	6096.3	6115.9	6161.6	6075.5
47.5°	6538.8	6481.4	6606.7	6594.9	6514.0	6420.0	6482.7	6538.8	6572.7	6468.3
50°	6934.2	6889.9	7054.3	7068.7	6969.5	6837.7	6925.1	7009.9	7019.1	6882.0
52.5°	7304.9	7260.5	7499.4	7589.4	7500.7	7344.1	7436.7	7522.9	7453.7	7276.2
55°	7601.2	7564.6	7868.7	8101.0	8131.1	8001.9	8056.7	8054.1	7827.0	7554.2
57.5°	7673.0	7667.7	8051.4	8543.5	8856.7	8872.4	8764.1	8487.4	7997.9	7631.2
60°	7346.7	7379.3	7906.6	8774.5	9609.8	9957.0	9488.4	8698.8	7803.5	7294.5
62.5°	6370.4	6456.6	7092.2	8492.6	10218.0	11204.7	10069.2	8377.7	7004.7	6340.4
65°	4565.4	4715.5	5417.7	7247.5	10163.2	12301.0	9985.7	7188.7	5469.9	4703.7
67.5°	2071.3	2224.0	2820.4	4962.2	8834.5	12003.4	8813.7	5014.4	2961.4	2231.8
70°	750.5	776.6	968.4	1986.4	5646.1	9564.1	5887.5	2000.8	1029.8	827.5
72.5°	454.2	458.1	498.6	711.3	1961.6	5806.6	2045.2	734.8	509.0	451.6
75°	288.4	285.8	355.0	434.6	695.6	1959.0	729.6	434.6	353.7	322.4
77.5°	207.5	214.0	254.5	325.0	438.5	664.3	430.7	310.6	254.5	208.8
80°	155.3	159.2	185.3	253.2	308.0	413.7	274.1	229.7	191.9	130.5
82.5°	112.2	112.2	121.4	184.0	187.9	223.2	148.8	161.8	126.6	92.7
85°	66.6	65.3	75.7	109.6	97.9	82.2	67.9	99.2	79.6	57.4
87.5°	23.5	24.8	23.5	31.3	26.1	22.2	20.9	27.4	22.2	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3095.8
3114.1
3157.1
3222.4
3300.7
3381.6
3470.4
3591.8
3728.8
3876.3
4042.0
4214.3
4402.3
4622.8
4870.8
5142.3
5420.3
5755.7
6119.8
6503.5
6899.0
7281.4
7563.3
7607.7
7234.4
6301.2
4647.6
2199.2
817.0
459.4
325.0
212.7
134.4
92.7
56.1
18.3
0.0

OF REPORT)