

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: P941330

Luminaire Tested: **GALN-SB4D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35872 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

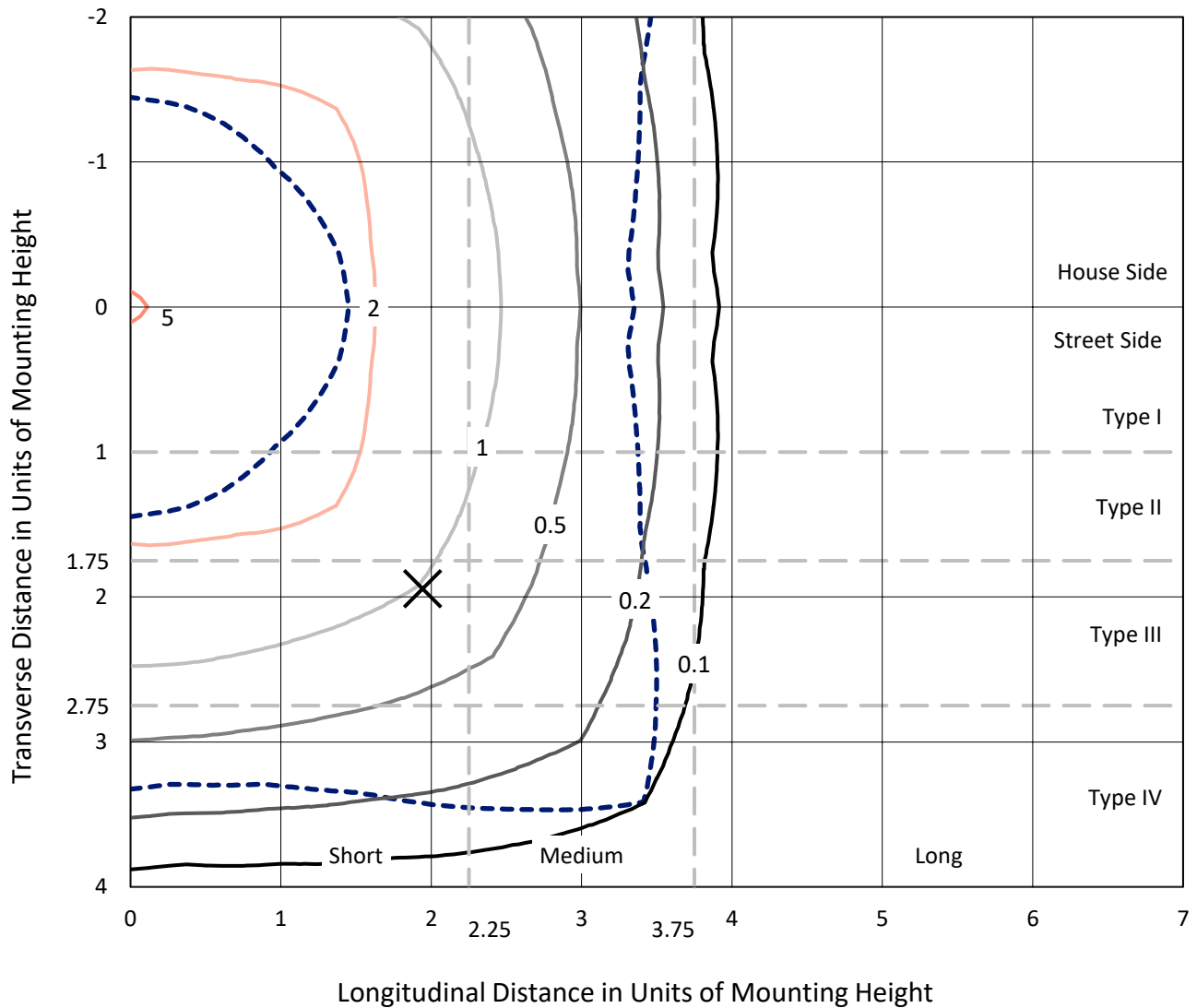
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

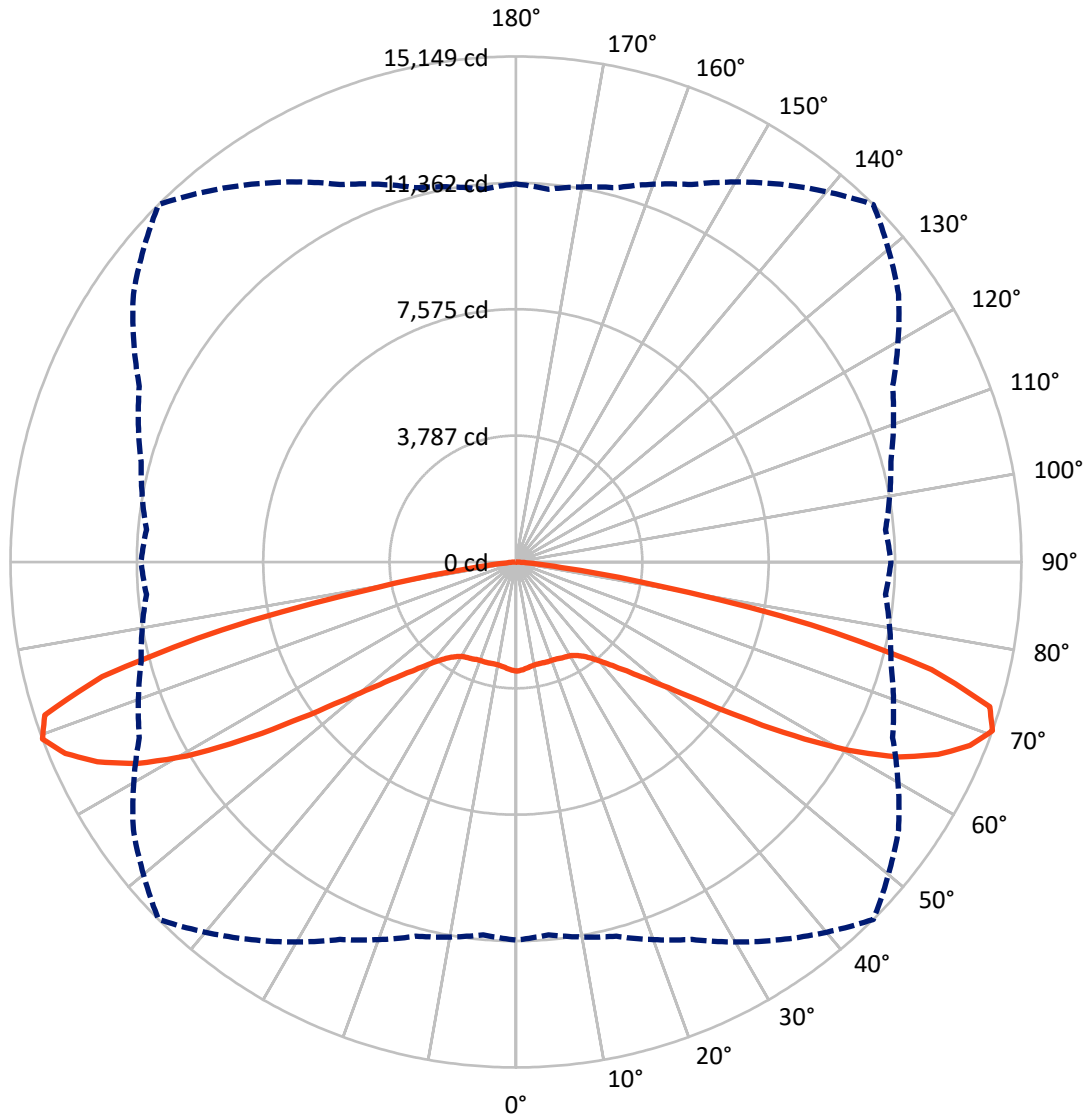
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17936.0	0.0	17936.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17936.0	0.0	17936.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35872.0	0.0	35872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	0.8
10°-20°	893.8	2.5
20°-30°	1487.4	4.1
30°-40°	2249.4	6.3
40°-50°	3737.9	10.4
50°-60°	7053.3	19.7
60°-70°	11909.8	33.2
70°-80°	7826.0	21.8
80°-90°	410.0	1.1
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°	35872.0	100.0
0°-180°	35872.0	100.0

Coefficient of Utilization



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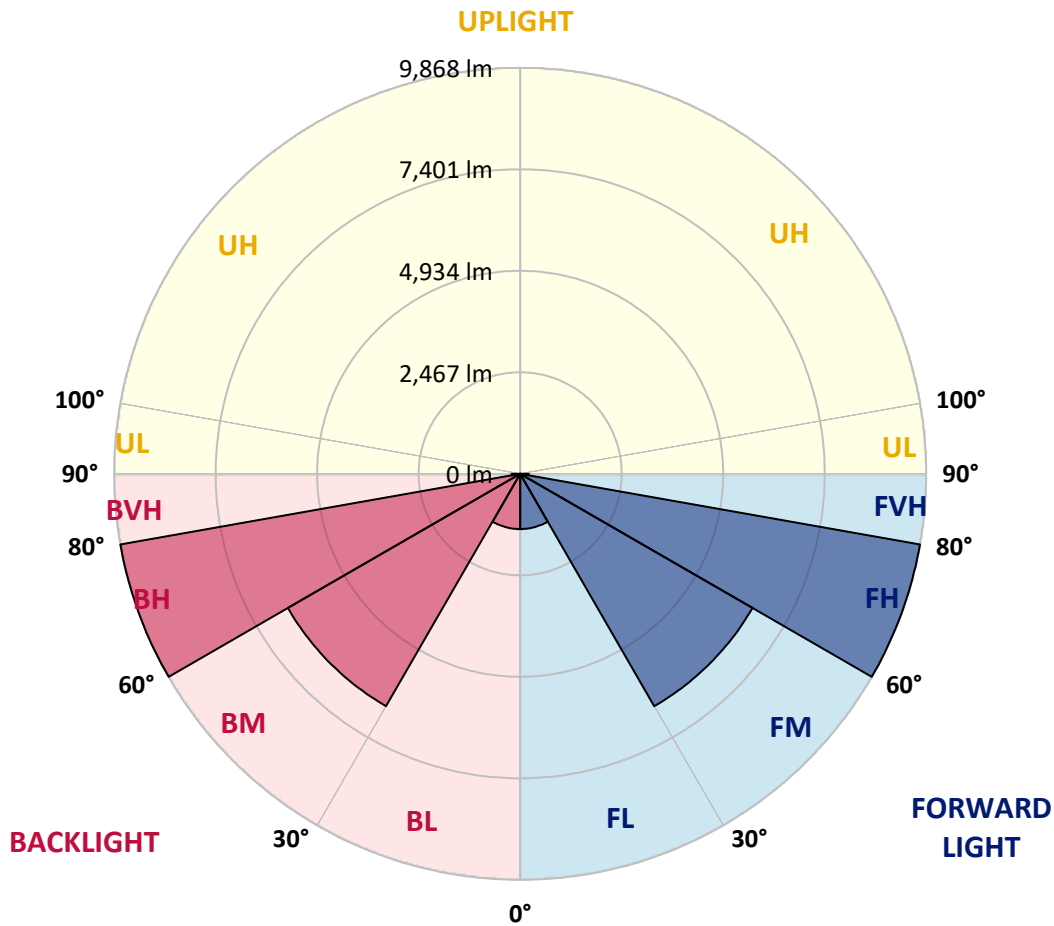
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.8	3.7			
FM (30°-60°)	6520.3	18.2			
FH (60°-80°)	9867.9	27.5			G4/12000
FVH (80°-90°)	205.0	0.6			G2/225
BL (0°-30°)	1342.8	3.7	B3/2500		
BM (30°-60°)	6520.3	18.2	B4/8500		
BH (60°-80°)	9867.9	27.5	B5		G4/12000
BVH (80°-90°)	205.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3272.2	3272.2	3272.2	3272.2	3272.2	3272.2	3272.2	3272.2	3272.2	3272.2
2.5°	3251.7	3261.1	3257.3	3249.9	3249.9	3244.3	3249.9	3253.6	3259.2	3262.9
5°	3208.9	3216.3	3214.4	3208.9	3210.7	3205.1	3208.9	3214.4	3218.2	3220.0
7.5°	3171.6	3179.0	3175.3	3166.0	3166.0	3160.4	3162.2	3167.8	3173.4	3175.3
10°	3162.2	3169.7	3158.5	3143.6	3138.0	3130.5	3132.4	3138.0	3149.2	3154.8
12.5°	3166.0	3171.6	3160.4	3138.0	3132.4	3125.0	3125.0	3130.5	3145.5	3152.9
15°	3177.2	3182.8	3166.0	3141.7	3136.1	3130.5	3128.7	3136.1	3152.9	3166.0
17.5°	3197.7	3203.3	3177.2	3143.6	3136.1	3138.0	3136.1	3141.7	3167.8	3192.1
20°	3216.3	3220.0	3184.6	3143.6	3136.1	3138.0	3136.1	3147.3	3180.9	3214.4
22.5°	3221.9	3225.6	3192.1	3156.6	3151.1	3152.9	3151.1	3162.2	3193.9	3227.5
25°	3223.8	3229.4	3203.3	3175.3	3184.6	3188.3	3184.6	3186.5	3210.7	3240.6
27.5°	3251.7	3259.2	3235.0	3210.7	3216.3	3214.4	3220.0	3225.6	3244.3	3274.1
30°	3309.5	3315.1	3294.6	3270.4	3266.7	3253.6	3270.4	3289.0	3309.5	3335.6
32.5°	3404.6	3415.8	3389.7	3363.6	3346.8	3339.4	3352.4	3384.1	3412.1	3440.1
35°	3563.1	3570.6	3546.3	3497.9	3468.0	3468.0	3479.2	3520.2	3565.0	3600.4
37.5°	3786.9	3796.2	3753.3	3695.5	3650.7	3650.7	3665.7	3708.5	3775.7	3826.0
40°	4059.1	4072.1	4018.1	3958.4	3915.5	3908.1	3926.7	3975.2	4038.6	4102.0
42.5°	4387.2	4402.2	4331.3	4279.1	4245.5	4245.5	4254.9	4299.6	4357.4	4435.7
45°	4806.8	4832.9	4735.9	4683.7	4652.0	4659.5	4665.1	4704.2	4756.4	4845.9
47.5°	5306.4	5332.6	5230.0	5175.9	5170.3	5205.8	5183.4	5211.4	5239.3	5341.9
50°	5873.3	5918.0	5847.2	5843.4	5854.6	5919.9	5867.7	5882.6	5850.9	5916.2
52.5°	6566.9	6632.1	6619.1	6641.5	6766.4	6900.6	6781.3	6729.1	6609.8	6630.3
55°	7407.8	7506.6	7525.2	7659.5	7942.9	8217.0	7963.4	7752.7	7499.1	7452.5
57.5°	8364.3	8442.6	8532.1	8806.2	9335.7	9822.3	9335.7	8869.6	8470.6	8375.5
60°	9393.5	9490.5	9576.2	9980.8	10767.7	11451.9	10752.7	10012.5	9484.9	9356.2
62.5°	10499.2	10624.1	10683.8	11133.1	12050.5	12867.1	12063.5	11166.7	10581.2	10443.2
65°	11560.1	11662.6	11729.8	12208.9	13085.3	13903.8	13144.9	12261.1	11658.9	11478.0
67.5°	12054.2	12110.1	12274.2	12816.8	13741.6	14675.7	13898.2	12874.6	12201.5	11884.5
70°	11330.7	11217.0	11612.3	12481.2	13819.9	15149.3	13998.9	12455.1	11630.9	11116.3
72.5°	8755.8	8560.1	9246.2	10732.2	12924.9	14847.2	13014.4	10816.1	9673.2	8629.0
75°	4763.9	4542.0	5489.2	7368.6	10307.1	12869.0	10543.9	7579.3	6111.9	4728.4
77.5°	1344.3	1260.4	2024.9	3565.0	6199.6	9035.5	6438.2	3643.3	2401.5	1424.5
80°	412.1	399.0	540.7	1074.0	2632.7	4327.6	2530.2	1087.0	688.0	434.4
82.5°	244.3	223.7	268.5	391.6	671.2	1359.2	652.6	408.3	328.2	220.0
85°	139.8	130.5	158.5	190.2	225.6	289.0	188.3	193.9	175.3	117.5
87.5°	57.8	52.2	61.5	59.7	52.2	67.1	50.3	59.7	70.9	46.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3272.2
3261.1
3220.0
3175.3
3154.8
3154.8
3167.8
3192.1
3216.3
3227.5
3238.7
3266.7
3330.0
3428.9
3587.4
3807.4
4081.5
4430.1
4842.2
5312.0
5877.0
6561.3
7379.8
8308.3
9244.3
10331.4
11388.5
11888.2
11239.4
8888.2
5036.1
1583.0
458.7
238.7
123.1
42.9
0.0

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