

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: P944220

Luminaire Tested: **GALN-SB9A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944220
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-SB9A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35938 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

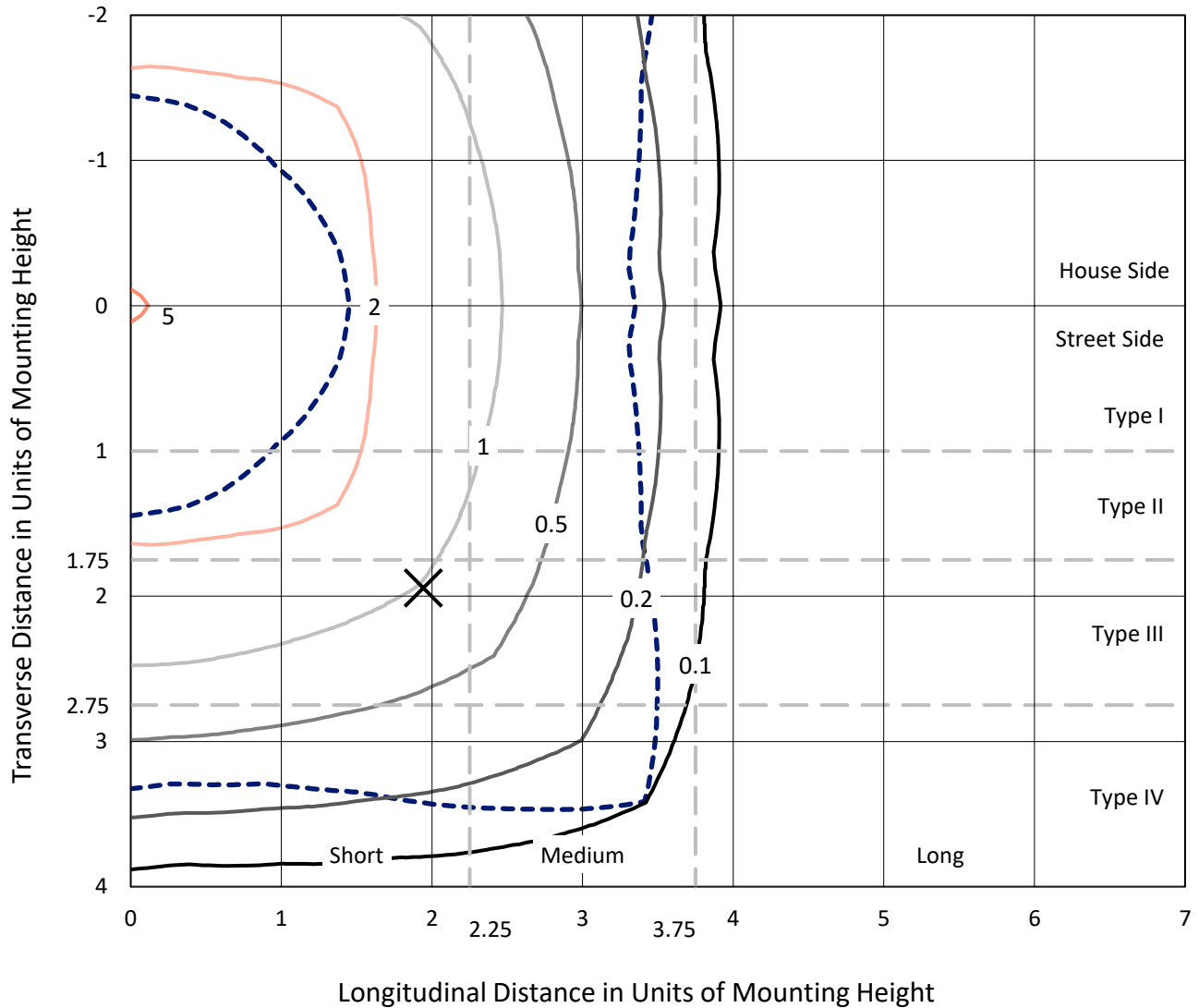
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

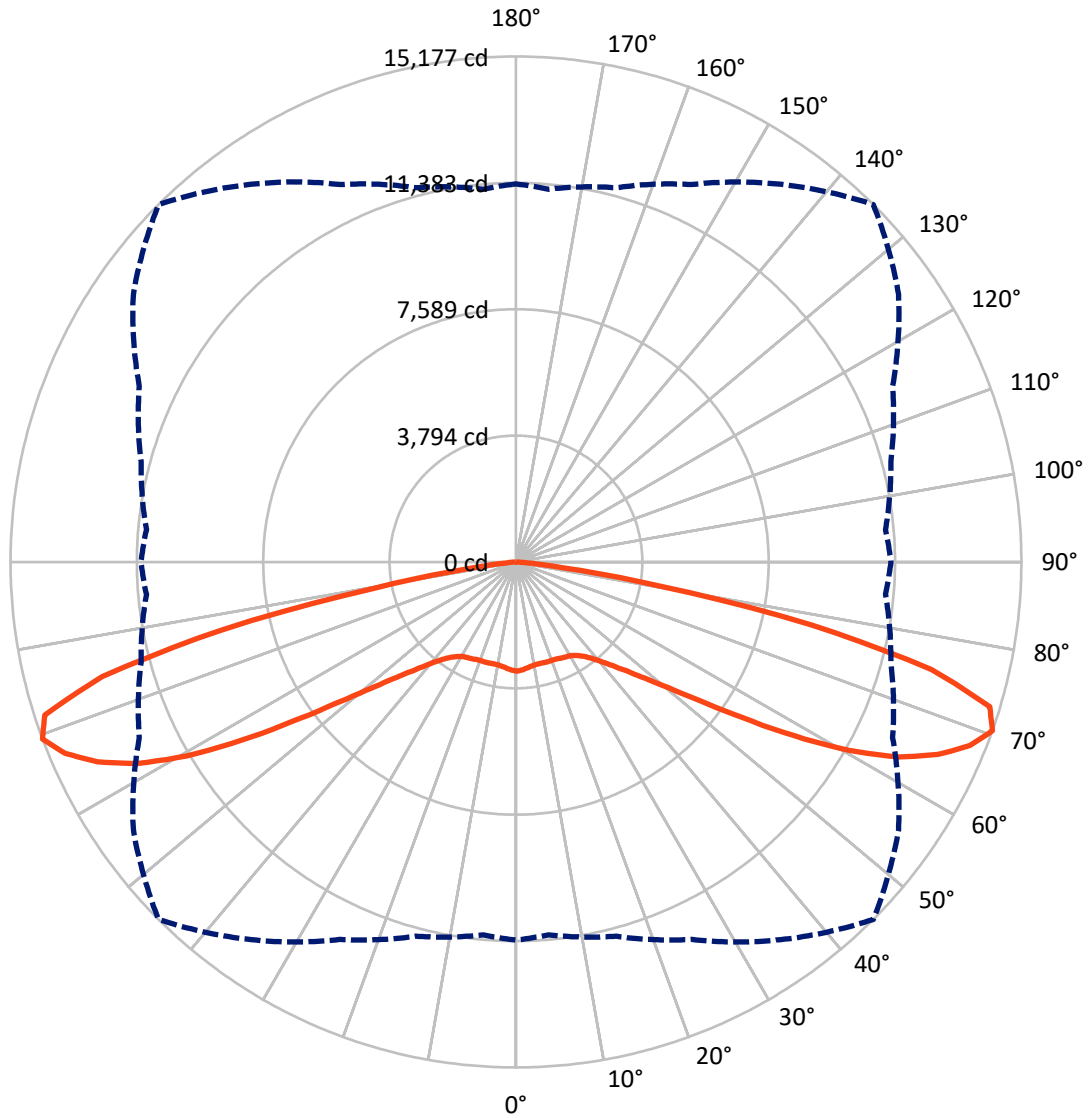
✕ Max cd
 - - - 1/2 Max cd



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	17969.0	0.0	17969.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17969.0	0.0	17969.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35938.0	0.0	35938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	0.8
10°-20°	895.4	2.5
20°-30°	1490.1	4.1
30°-40°	2253.5	6.3
40°-50°	3744.8	10.4
50°-60°	7066.3	19.7
60°-70°	11931.7	33.2
70°-80°	7840.4	21.8
80°-90°	410.8	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°	35938.0	100.0
0°-180°	35938.0	100.0

Coefficient of Utilization



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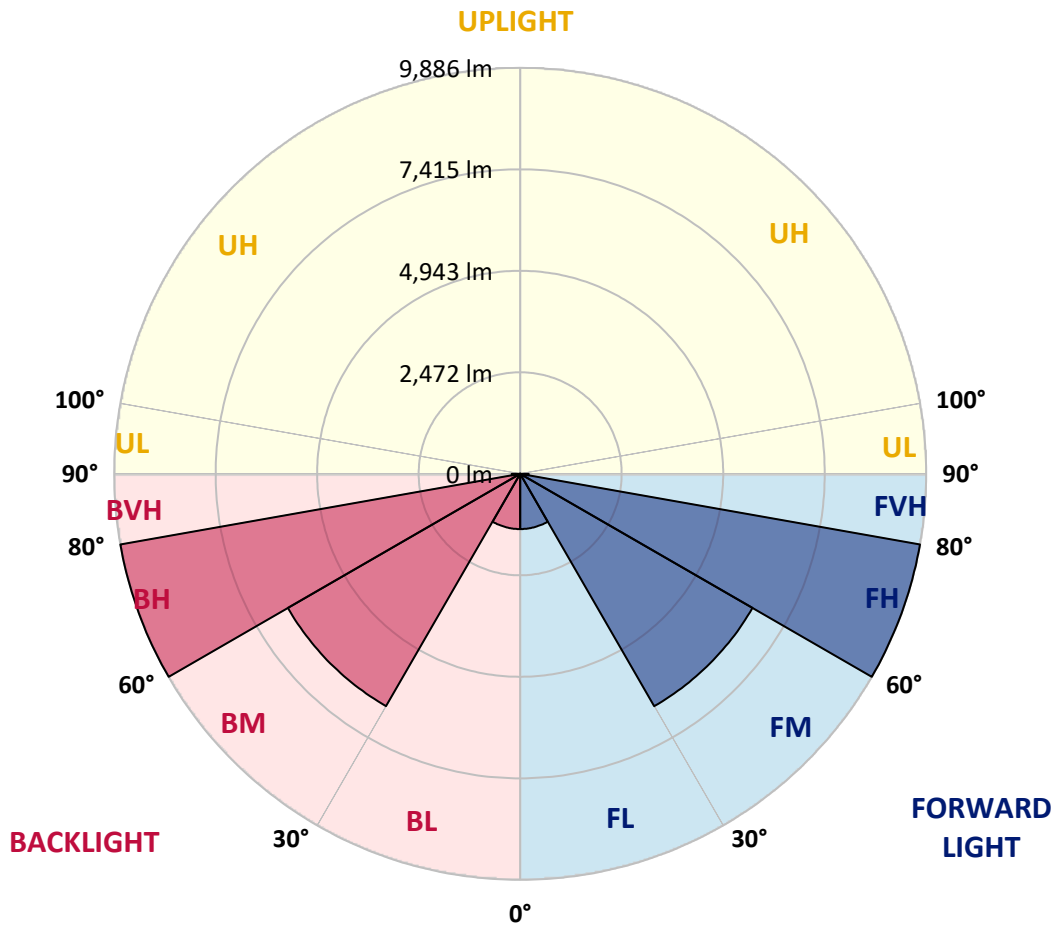
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.3	3.7			
FM (30°-60°)	6532.3	18.2			
FH (60°-80°)	9886.1	27.5			G4/12000
FVH (80°-90°)	205.4	0.6			G2/225
BL (0°-30°)	1345.3	3.7	B3/2500		
BM (30°-60°)	6532.3	18.2	B4/8500		
BH (60°-80°)	9886.1	27.5	B5		G4/12000
BVH (80°-90°)	205.4	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°	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3	3278.3
2.5°	3257.7	3267.1	3263.3	3255.9	3255.9	3250.2	3255.9	3259.6	3265.2	3268.9
5°	3214.8	3222.2	3220.4	3214.8	3216.6	3211.0	3214.8	3220.4	3224.1	3226.0
7.5°	3177.4	3184.9	3181.1	3171.8	3171.8	3166.2	3168.1	3173.7	3179.3	3181.1
10°	3168.1	3175.5	3164.3	3149.4	3143.8	3136.3	3138.2	3143.8	3155.0	3160.6
12.5°	3171.8	3177.4	3166.2	3143.8	3138.2	3130.7	3130.7	3136.3	3151.2	3158.7
15°	3183.0	3188.6	3171.8	3147.5	3141.9	3136.3	3134.4	3141.9	3158.7	3171.8
17.5°	3203.6	3209.2	3183.0	3149.4	3141.9	3143.8	3141.9	3147.5	3173.7	3197.9
20°	3222.2	3226.0	3190.5	3149.4	3141.9	3143.8	3141.9	3153.1	3186.7	3220.4
22.5°	3227.8	3231.6	3197.9	3162.5	3156.9	3158.7	3156.9	3168.1	3199.8	3233.4
25°	3229.7	3235.3	3209.2	3181.1	3190.5	3194.2	3190.5	3192.3	3216.6	3246.5
27.5°	3257.7	3265.2	3240.9	3216.6	3222.2	3220.4	3226.0	3231.6	3250.2	3280.1
30°	3315.6	3321.2	3300.7	3276.4	3272.7	3259.6	3276.4	3295.1	3315.6	3341.8
32.5°	3410.9	3422.1	3396.0	3369.8	3353.0	3345.5	3358.6	3390.3	3418.4	3446.4
35°	3569.7	3577.1	3552.9	3504.3	3474.4	3474.4	3485.6	3526.7	3571.5	3607.0
37.5°	3793.8	3803.2	3760.2	3702.3	3657.5	3657.5	3672.4	3715.4	3782.6	3833.1
40°	4066.5	4079.6	4025.5	3965.7	3922.7	3915.2	3933.9	3982.5	4046.0	4109.5
42.5°	4395.3	4410.3	4339.3	4287.0	4253.3	4253.3	4262.7	4307.5	4365.4	4443.9
45°	4815.6	4841.8	4744.6	4692.3	4660.6	4668.0	4673.6	4712.9	4765.2	4854.8
47.5°	5316.2	5342.4	5239.6	5185.5	5179.9	5215.3	5192.9	5220.9	5249.0	5351.7
50°	5884.1	5928.9	5857.9	5854.2	5865.4	5930.8	5878.5	5893.4	5861.7	5927.0
52.5°	6579.0	6644.3	6631.3	6653.7	6778.8	6913.3	6793.8	6741.5	6621.9	6642.5
55°	7421.4	7520.4	7539.1	7673.6	7957.5	8232.1	7978.1	7767.0	7512.9	7466.2
57.5°	8379.7	8458.1	8547.8	8822.4	9352.9	9840.4	9352.9	8885.9	8486.1	8390.9
60°	9410.8	9507.9	9593.8	9999.2	10787.5	11473.0	10772.5	10030.9	9502.3	9373.4
62.5°	10518.5	10643.6	10703.4	11153.6	12072.6	12890.8	12085.7	11187.2	10600.7	10462.4
65°	11581.3	11684.1	11751.3	12231.4	13109.3	13929.4	13169.1	12283.7	11680.4	11499.2
67.5°	12076.4	12132.4	12296.8	12840.4	13766.9	14702.7	13923.8	12898.3	12223.9	11906.4
70°	11351.6	11237.6	11633.7	12504.1	13845.3	15177.2	14024.6	12478.0	11652.3	11136.8
72.5°	8771.9	8575.8	9263.2	10752.0	12948.7	14874.6	13038.4	10836.0	9691.0	8644.9
75°	4772.6	4550.3	5499.3	7382.2	10326.1	12892.7	10563.3	7593.3	6123.2	4737.1
77.5°	1346.8	1262.7	2028.6	3571.5	6211.0	9052.1	6450.1	3650.0	2405.9	1427.1
80°	412.8	399.7	541.7	1075.9	2637.6	4335.5	2534.8	1089.0	689.3	435.2
82.5°	244.7	224.2	269.0	392.3	672.5	1361.7	653.8	409.1	328.8	220.4
85°	140.1	130.8	158.8	190.5	226.0	289.5	188.7	194.3	175.6	117.7
87.5°	57.9	52.3	61.6	59.8	52.3	67.2	50.4	59.8	71.0	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3278.3
3267.1
3226.0
3181.1
3160.6
3160.6
3173.7
3197.9
3222.2
3233.4
3244.6
3272.7
3336.2
3435.2
3594.0
3814.4
4089.0
4438.3
4851.1
5321.8
5887.8
6573.3
7393.4
8323.6
9261.3
10350.4
11409.5
11910.1
<i>11260.1</i>
8904.6
5045.4
1585.9
459.5
239.1
123.3
43.0
0.0

OF REPORT)