

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: P941350

Luminaire Tested: **GALN-SB4D-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941350
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-835-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38263 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

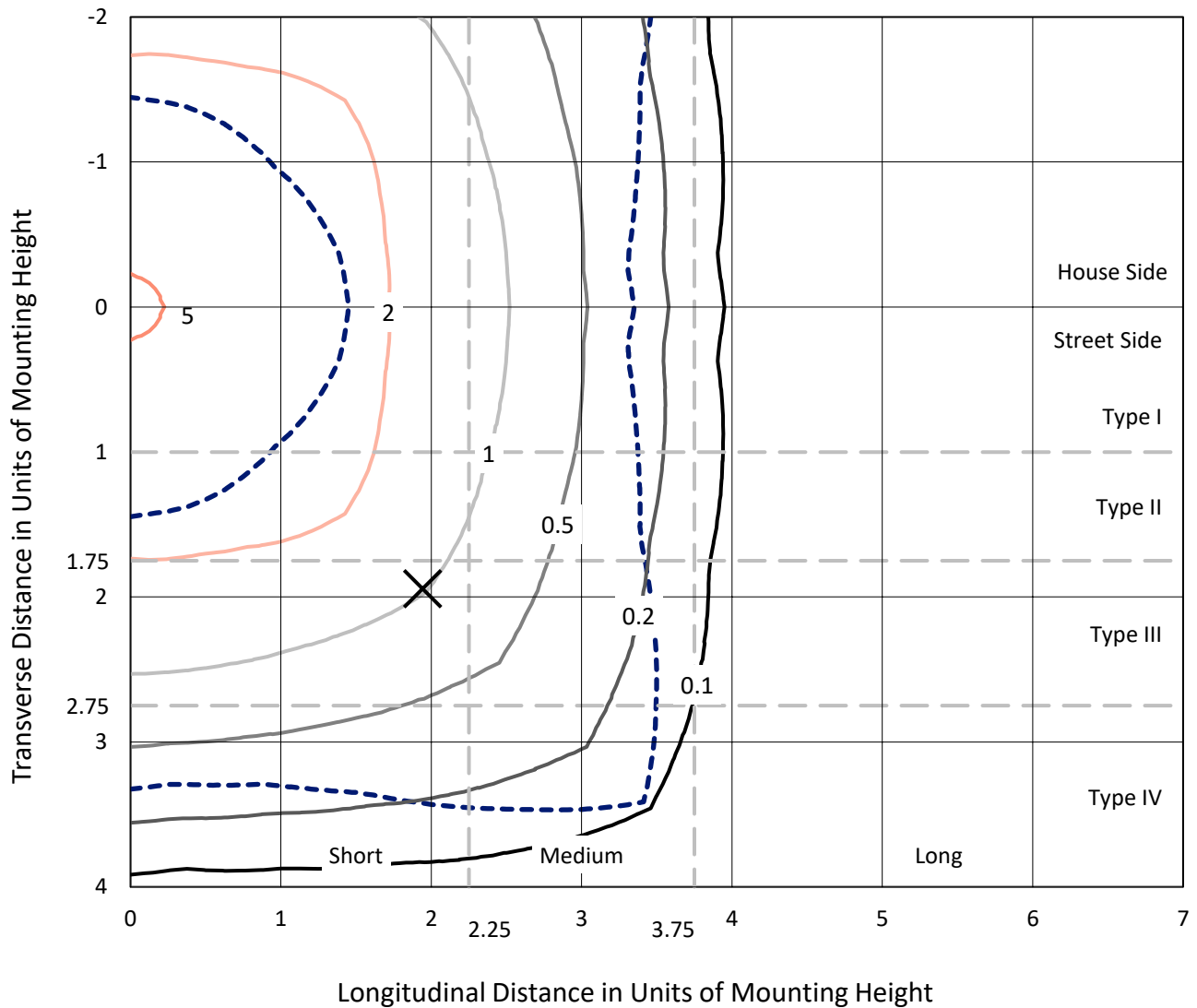
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

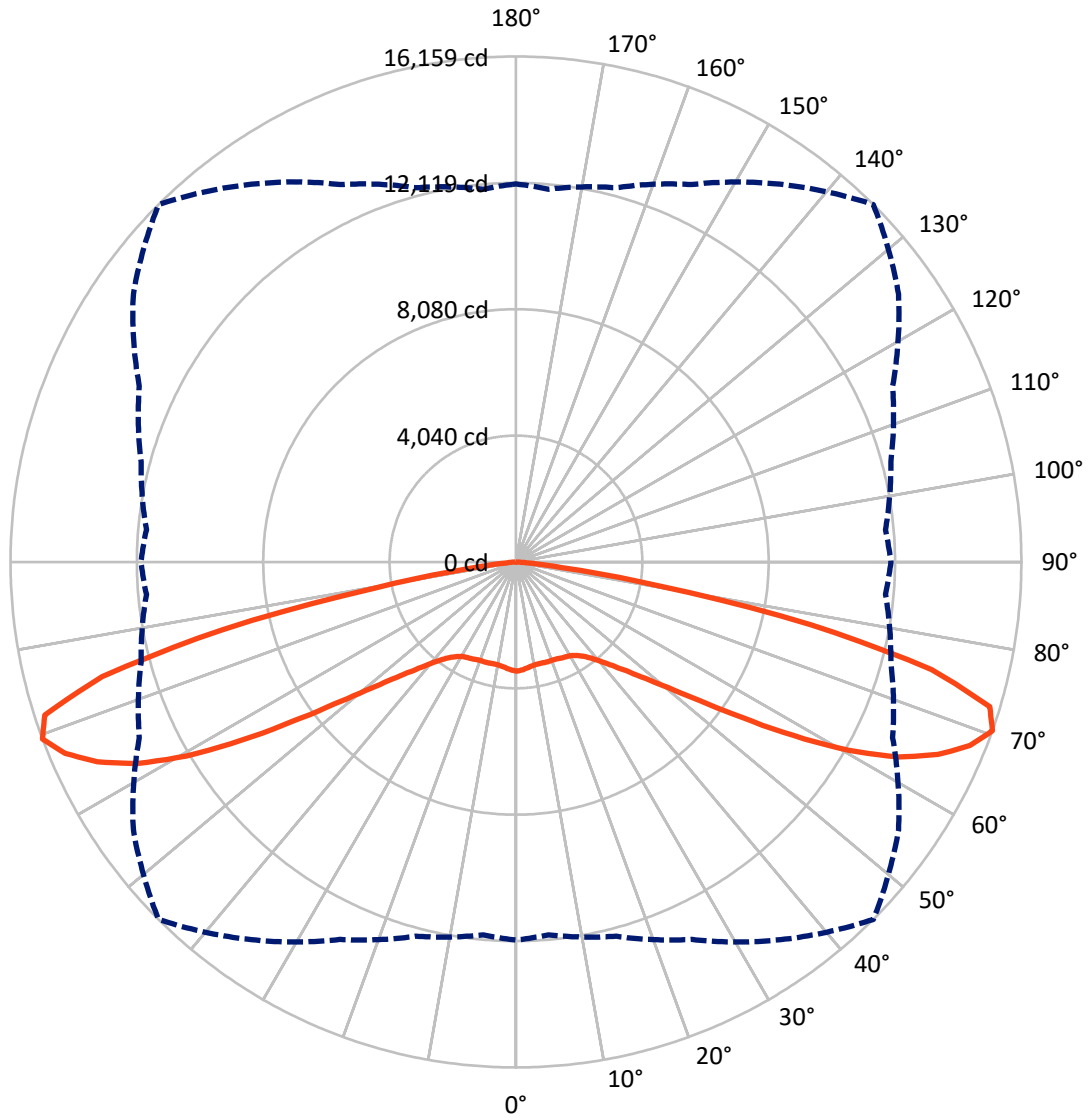
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	19131.5	0.0	19131.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19131.5	0.0	19131.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38263.0	0.0	38263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	0.8
10°-20°	953.4	2.5
20°-30°	1586.5	4.1
30°-40°	2399.3	6.3
40°-50°	3987.1	10.4
50°-60°	7523.5	19.7
60°-70°	12703.7	33.2
70°-80°	8347.6	21.8
80°-90°	437.3	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°	38263.0	100.0
0°-180°	38263.0	100.0

Coefficient of Utilization



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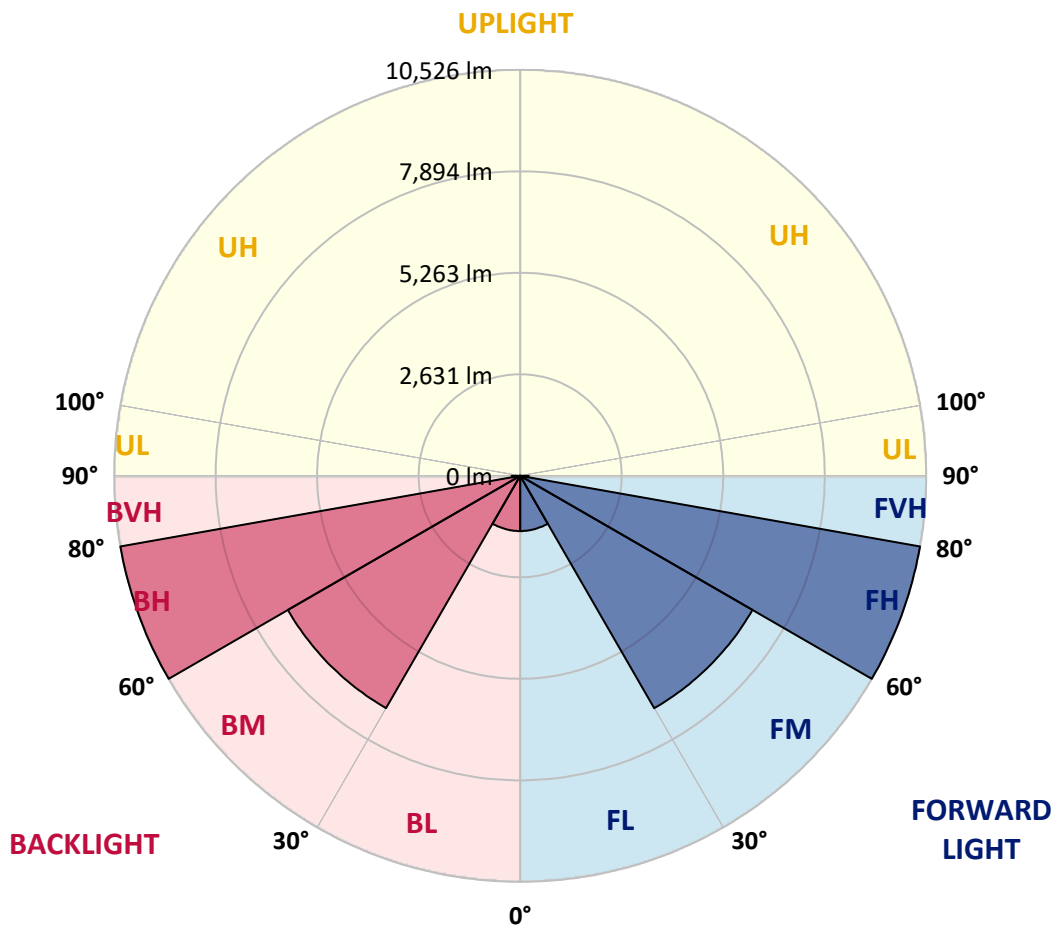
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.3	3.7			
FM (30°-60°)	6954.9	18.2			
FH (60°-80°)	10525.6	27.5			G4/12000
FVH (80°-90°)	218.7	0.6			G2/225
BL (0°-30°)	1432.3	3.7	B3/2500		
BM (30°-60°)	6954.9	18.2	B4/8500		
BH (60°-80°)	10525.6	27.5	B5		G4/12000
BVH (80°-90°)	218.7	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°	3490.4	3490.4	3490.4	3490.4	3490.4	3490.4	3490.4	3490.4	3490.4	3490.4
2.5°	3468.5	3478.4	3474.4	3466.5	3466.5	3460.5	3466.5	3470.5	3476.4	3480.4
5°	3422.7	3430.7	3428.7	3422.7	3424.7	3418.8	3422.7	3428.7	3432.7	3434.7
7.5°	3383.0	3390.9	3386.9	3377.0	3377.0	3371.0	3373.0	3379.0	3384.9	3386.9
10°	3373.0	3381.0	3369.0	3353.1	3347.2	3339.2	3341.2	3347.2	3359.1	3365.1
12.5°	3377.0	3383.0	3371.0	3347.2	3341.2	3333.2	3333.2	3339.2	3355.1	3363.1
15°	3388.9	3394.9	3377.0	3351.1	3345.2	3339.2	3337.2	3345.2	3363.1	3377.0
17.5°	3410.8	3416.8	3388.9	3353.1	3345.2	3347.2	3345.2	3351.1	3379.0	3404.8
20°	3430.7	3434.7	3396.9	3353.1	3345.2	3347.2	3345.2	3357.1	3392.9	3428.7
22.5°	3436.7	3440.6	3404.8	3367.0	3361.1	3363.1	3361.1	3373.0	3406.8	3442.6
25°	3438.6	3444.6	3416.8	3386.9	3396.9	3400.9	3396.9	3398.9	3424.7	3456.5
27.5°	3468.5	3476.4	3450.6	3424.7	3430.7	3428.7	3434.7	3440.6	3460.5	3492.3
30°	3530.1	3536.1	3514.2	3488.4	3484.4	3470.5	3488.4	3508.3	3530.1	3558.0
32.5°	3631.6	3643.5	3615.7	3587.8	3569.9	3562.0	3575.9	3609.7	3639.5	3669.3
35°	3800.6	3808.6	3782.7	3731.0	3699.2	3699.2	3711.1	3754.9	3802.6	3840.4
37.5°	4039.3	4049.2	4003.5	3941.8	3894.1	3894.1	3910.0	3955.7	4027.3	4081.0
40°	4329.6	4343.6	4285.9	4222.2	4176.5	4168.5	4188.4	4240.1	4307.8	4375.4
42.5°	4679.7	4695.6	4620.0	4564.3	4528.5	4528.5	4538.5	4586.2	4647.8	4731.4
45°	5127.1	5155.0	5051.6	4995.9	4962.1	4970.0	4976.0	5017.8	5073.4	5168.9
47.5°	5660.1	5688.0	5578.6	5520.9	5515.0	5552.7	5528.9	5558.7	5588.5	5697.9
50°	6264.7	6312.5	6236.9	6232.9	6244.9	6314.5	6258.8	6274.7	6240.9	6310.5
52.5°	7004.6	7074.2	7060.3	7084.1	7217.4	7360.6	7233.3	7177.6	7050.3	7072.2
55°	7901.5	8006.9	8026.8	8170.0	8472.3	8764.7	8494.2	8269.5	7999.0	7949.3
57.5°	8921.8	9005.3	9100.8	9393.1	9958.0	10477.0	9958.0	9460.8	9035.1	8933.7
60°	10019.6	10123.0	10214.5	10646.1	11485.4	12215.3	11469.4	10679.9	10117.1	9979.8
62.5°	11199.0	11332.2	11395.9	11875.2	12853.7	13724.8	12867.6	11911.0	11286.5	11139.3
65°	12330.6	12440.0	12511.6	13022.7	13957.4	14830.5	14021.1	13078.4	12436.0	12243.1
67.5°	12857.6	12917.3	13092.3	13671.1	14657.5	15653.9	14824.6	13732.7	13014.8	12676.7
70°	12086.0	11964.7	12386.3	13313.1	14741.0	16159.1	14932.0	13285.2	12406.2	11857.3
72.5°	9339.4	9130.6	9862.5	11447.6	13786.4	15836.9	13881.9	11537.1	10317.9	9204.2
75°	5081.4	4844.7	5855.0	7859.8	10994.1	13726.7	11246.7	8084.5	6519.3	5043.6
77.5°	1433.9	1344.4	2159.8	3802.6	6612.8	9637.8	6867.3	3886.1	2561.6	1519.4
80°	439.5	425.6	576.8	1145.6	2808.2	4616.0	2698.8	1159.5	733.9	463.4
82.5°	260.5	238.7	286.4	417.6	716.0	1449.8	696.1	435.5	350.0	234.7
85°	149.2	139.2	169.0	202.9	240.6	308.3	200.9	206.8	186.9	125.3
87.5°	61.7	55.7	65.6	63.6	55.7	71.6	53.7	63.6	75.6	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3490.4
3478.4
3434.7
3386.9
3365.1
3365.1
3379.0
3404.8
3430.7
3442.6
3454.6
3484.4
3552.0
3657.4
3826.5
4061.1
4353.5
4725.4
5164.9
5666.1
6268.7
6998.6
7871.7
8862.1
9860.5
11020.0
12147.6
12680.6
11988.5
9480.6
5371.8
1688.5
489.2
254.6
131.3
45.7
0.0

OF REPORT)