

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: P941370

Luminaire Tested: **GALN-SB4D-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941370  
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-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

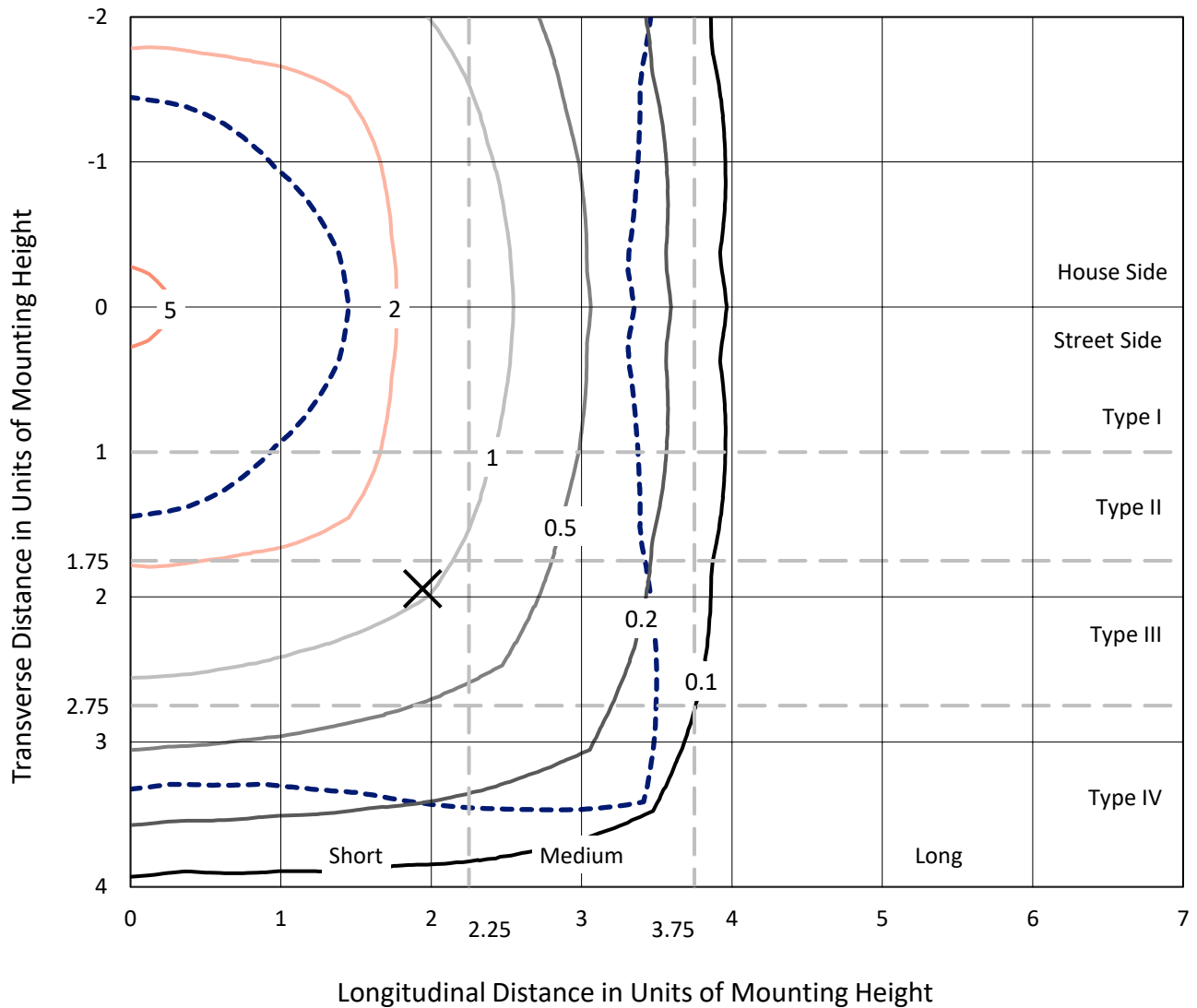
Lumens per Lamp: N/A  
Luminaire Lumens: 39459 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

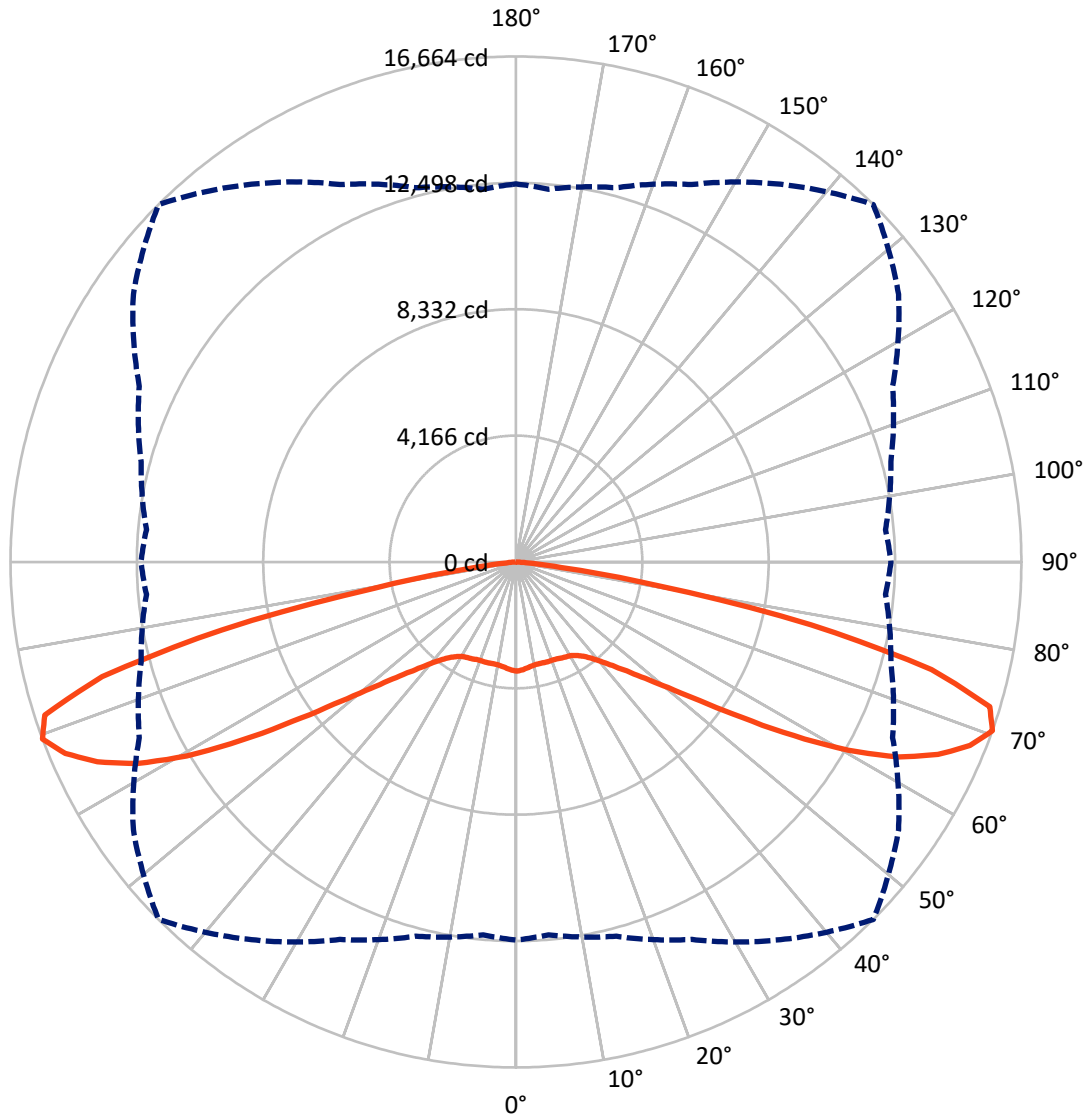
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	19729.5	0.0	19729.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19729.5	0.0	19729.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39459.0	0.0	39459.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.8	0.8
10°-20°	983.2	2.5
20°-30°	1636.1	4.1
30°-40°	2474.3	6.3
40°-50°	4111.7	10.4
50°-60°	7758.6	19.7
60°-70°	13100.8	33.2
70°-80°	8608.6	21.8
80°-90°	451.0	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°	39459.0	100.0
0°-180°	39459.0	100.0



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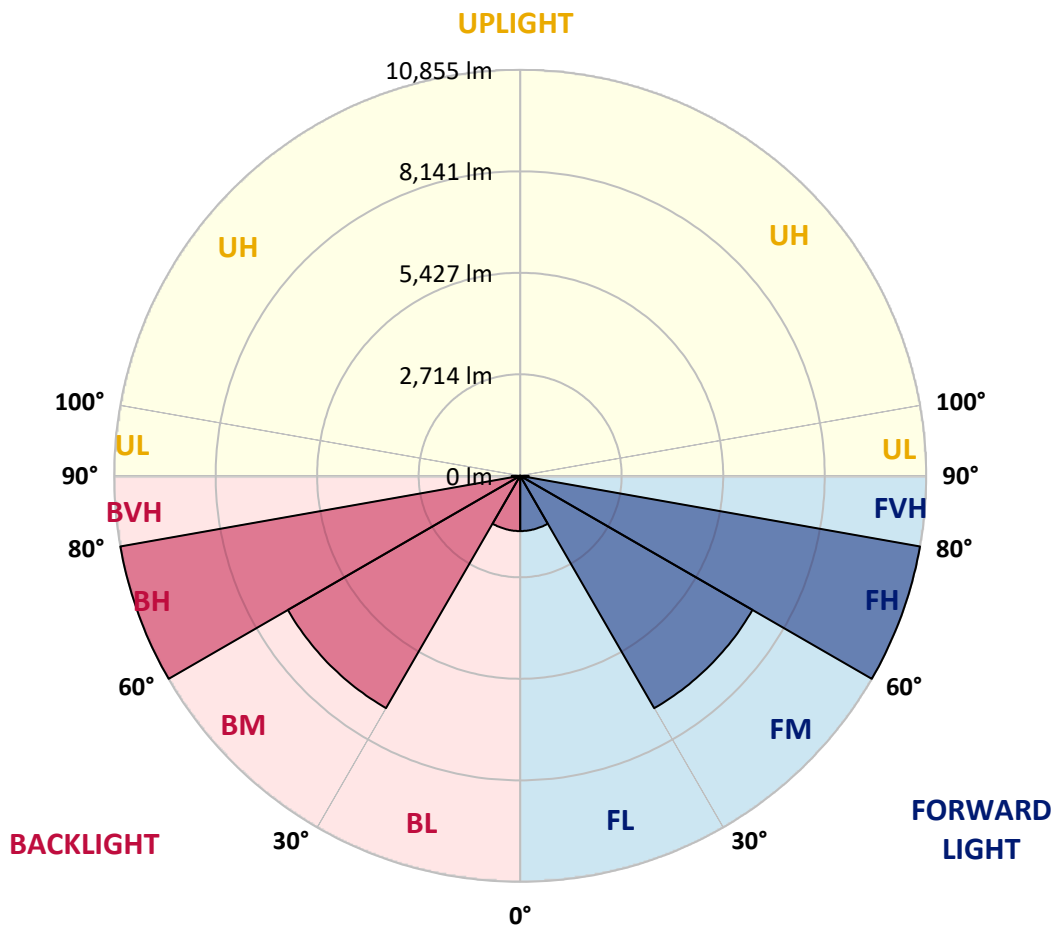
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.1	3.7			
FM (30°-60°)	7172.3	18.2			
FH (60°-80°)	10854.7	27.5			G4/12000
FVH (80°-90°)	225.5	0.6			G3/500
BL (0°-30°)	1477.1	3.7	B3/2500		
BM (30°-60°)	7172.3	18.2	B4/8500		
BH (60°-80°)	10854.7	27.5	B5		G4/12000
BVH (80°-90°)	225.5	0.6			G3/500
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°	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5
2.5°	3576.9	3587.1	3583.0	3574.8	3574.8	3568.7	3574.8	3578.9	3585.1	3589.2
5°	3529.7	3537.9	3535.9	3529.7	3531.8	3525.6	3529.7	3535.9	3540.0	3542.0
7.5°	3488.7	3496.9	3492.8	3482.5	3482.5	3476.4	3478.4	3484.6	3490.8	3492.8
10°	3478.4	3486.7	3474.3	3457.9	3451.8	3443.6	3445.6	3451.8	3464.1	3470.2
12.5°	3482.5	3488.7	3476.4	3451.8	3445.6	3437.4	3437.4	3443.6	3460.0	3468.2
15°	3494.9	3501.0	3482.5	3455.9	3449.7	3443.6	3441.5	3449.7	3468.2	3482.5
17.5°	3517.4	3523.6	3494.9	3457.9	3449.7	3451.8	3449.7	3455.9	3484.6	3511.3
20°	3537.9	3542.0	3503.1	3457.9	3449.7	3451.8	3449.7	3462.0	3499.0	3535.9
22.5°	3544.1	3548.2	3511.3	3472.3	3466.1	3468.2	3466.1	3478.4	3513.3	3550.2
25°	3546.1	3552.3	3523.6	3492.8	3503.1	3507.2	3503.1	3505.1	3531.8	3564.6
27.5°	3576.9	3585.1	3558.4	3531.8	3537.9	3535.9	3542.0	3548.2	3568.7	3601.5
30°	3640.5	3646.6	3624.1	3597.4	3593.3	3578.9	3597.4	3617.9	3640.5	3669.2
32.5°	3745.1	3757.4	3728.7	3700.0	3681.5	3673.3	3687.6	3722.5	3753.3	3784.0
35°	3919.4	3927.6	3900.9	3847.6	3814.8	3814.8	3827.1	3872.2	3921.5	3960.4
37.5°	4165.5	4175.8	4128.6	4065.0	4015.8	4015.8	4032.2	4079.4	4153.2	4208.6
40°	4465.0	4479.3	4419.8	4354.2	4307.0	4298.8	4319.3	4372.7	4442.4	4512.1
42.5°	4825.9	4842.3	4764.4	4707.0	4670.1	4670.1	4680.3	4729.5	4793.1	4879.3
45°	5287.4	5316.1	5209.5	5152.0	5117.2	5125.4	5131.5	5174.6	5232.0	5330.5
47.5°	5837.1	5865.8	5753.0	5693.5	5687.3	5726.3	5701.7	5732.5	5763.2	5876.0
50°	6460.6	6509.8	6431.8	6427.7	6440.1	6511.8	6454.4	6470.8	6435.9	6507.7
52.5°	7223.5	7295.3	7280.9	7305.6	7443.0	7590.6	7459.4	7402.0	7270.7	7293.3
55°	8148.5	8257.2	8277.7	8425.4	8737.1	9038.6	8759.7	8527.9	8249.0	8197.7
57.5°	9200.7	9286.8	9385.2	9686.7	10269.2	10804.5	10269.2	9756.5	9317.6	9213.0
60°	10332.8	10439.4	10533.8	10978.9	11844.4	12597.1	11828.0	11013.7	10433.3	10291.8
62.5°	11549.0	11686.4	11752.1	12246.4	13255.4	14153.8	13269.8	12283.3	11639.3	11487.5
65°	12716.0	12828.8	12902.7	13429.8	14393.7	15294.1	14459.4	13487.2	12824.7	12625.8
67.5°	13259.5	13321.1	13501.5	14098.4	15115.7	16143.2	15287.9	14162.0	13421.6	13072.9
70°	12463.8	12338.6	12773.5	13729.2	15201.8	16664.1	15398.7	13700.5	12794.0	12227.9
72.5°	9631.4	9416.0	10170.8	11805.4	14217.3	16331.9	14315.8	11897.7	10640.4	9491.9
75°	5240.2	4996.2	6038.1	8105.4	11337.8	14155.8	11598.2	8337.2	6723.1	5201.3
77.5°	1478.8	1386.5	2227.4	3921.5	6819.5	9939.0	7082.0	4007.6	2641.7	1566.9
80°	453.3	438.9	594.8	1181.4	2896.0	4760.3	2783.2	1195.7	756.8	477.9
82.5°	268.7	246.1	295.3	430.7	738.3	1495.2	717.8	449.2	361.0	242.0
85°	153.8	143.6	174.3	209.2	248.2	317.9	207.1	213.3	192.8	129.2
87.5°	63.6	57.4	67.7	65.6	57.4	73.8	55.4	65.6	77.9	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3599.5
3587.1
3542.0
3492.8
3470.2
3470.2
3484.6
3511.3
3537.9
3550.2
3562.5
3593.3
3663.0
3771.7
3946.1
4188.1
4489.6
4873.1
5326.4
5843.2
6464.7
7217.4
8117.7
9139.1
10168.7
11364.4
12527.3
13077.0
12363.3
9777.0
5539.7
1741.3
504.5
262.5
135.4
47.2
0.0

OF REPORT)