

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: P941353

Luminaire Tested: **GALN-SB4D-835-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
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-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37422 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

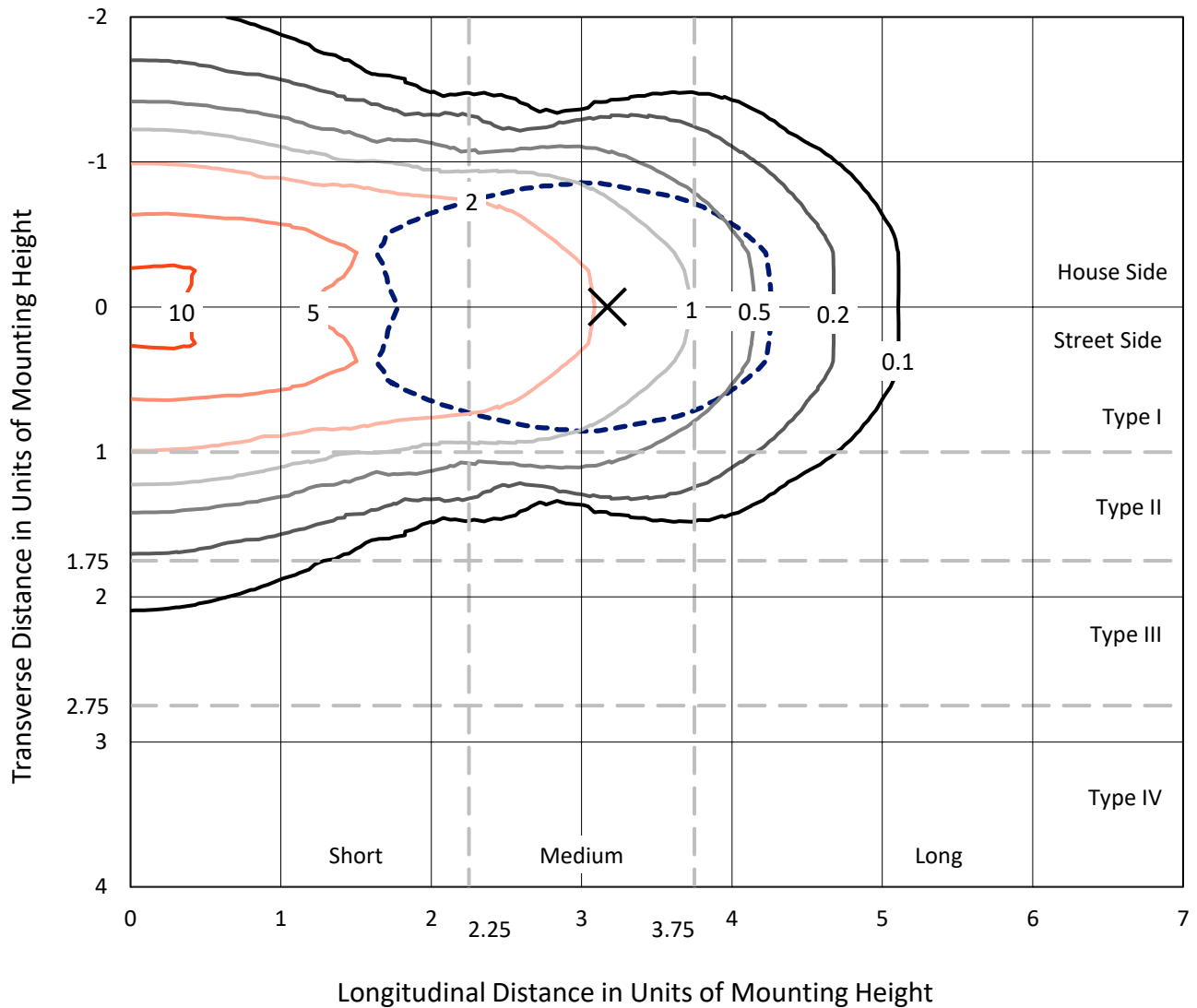
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

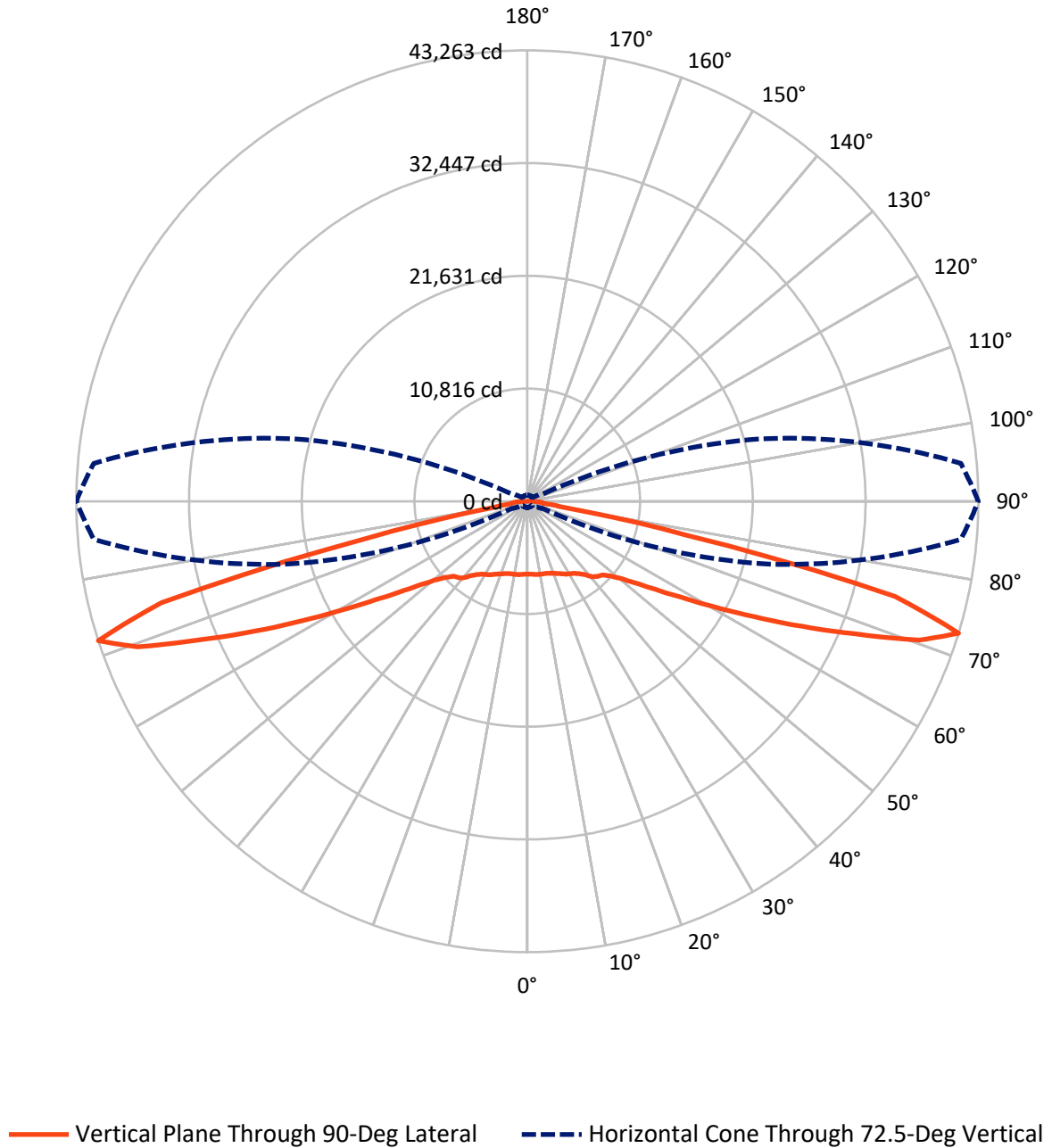
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18711.0	0.0	18711.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18711.0	0.0	18711.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37422.0	0.0	37422.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.0	1.8
10°-20°	2073.1	5.5
20°-30°	3456.8	9.2
30°-40°	4754.1	12.7
40°-50°	5806.1	15.5
50°-60°	6715.3	17.9
60°-70°	8007.0	21.4
70°-80°	5588.3	14.9
80°-90°	343.2	0.9
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°	37422.0	100.0
0°-180°	37422.0	100.0

**Coefficient of Utilization**

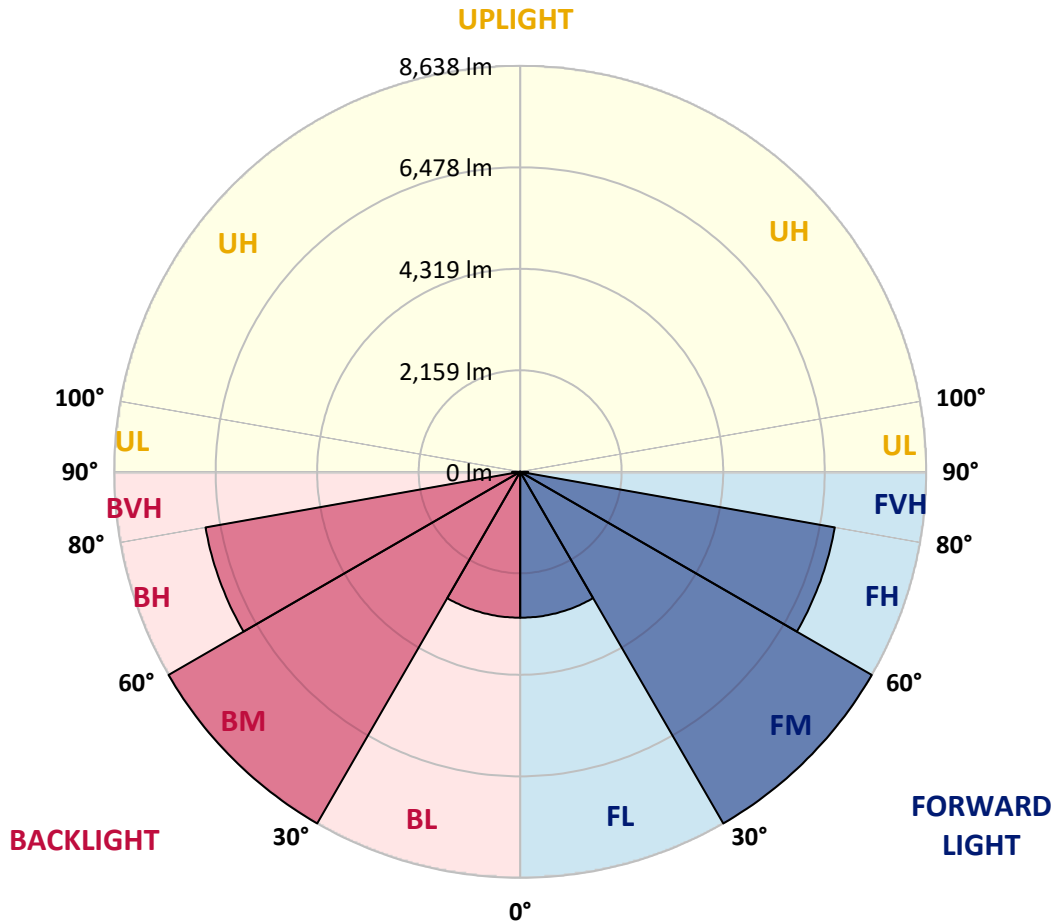


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3104.0	8.3			
FM (30°-60°)	8637.8	23.1			
FH (60°-80°)	6797.6	18.2			G3/7500
FVH (80°-90°)	171.6	0.5			G2/225
BL (0°-30°)	3104.0	8.3	B4/5000		
BM (30°-60°)	8637.8	23.1	B5		
BH (60°-80°)	6797.6	18.2	B5		G5
BVH (80°-90°)	171.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7	6992.7
2.5°	6998.7	7006.6	7006.6	7000.7	7014.6	7002.6	7002.6	6996.7	7002.6	6996.7
5°	7034.5	7044.4	7048.4	7046.4	7064.3	7054.3	7054.3	7046.4	7048.4	7042.4
7.5°	7102.1	7116.0	7124.0	7133.9	7159.8	7147.8	7139.9	7116.0	7106.1	7090.1
10°	7124.0	7139.9	7165.7	7217.4	7277.1	7279.1	7255.2	7195.6	7149.8	7114.0
12.5°	7056.3	7078.2	7131.9	7237.3	7370.6	7424.3	7386.5	7287.0	7197.5	7133.9
15°	6970.8	6994.7	7076.2	7235.3	7432.2	7557.5	7553.5	7422.3	7279.1	7179.6
17.5°	6837.6	6861.4	6978.8	7201.5	7480.0	7686.8	7742.5	7607.2	7406.4	7273.1
20°	6596.9	6618.8	6781.9	7094.1	7495.9	7824.0	7969.2	7849.9	7599.3	7418.3
22.5°	6284.7	6318.5	6509.4	6909.2	7458.1	7967.2	8227.8	8146.2	7824.0	7573.4
25°	5950.6	5986.4	6209.1	6682.4	7360.6	8070.6	8534.0	8482.3	8078.6	7766.3
27.5°	5662.2	5700.0	5942.6	6457.7	7209.5	8110.4	8836.3	8862.2	8386.9	7979.2
30°	5435.4	5471.2	5729.8	6276.7	7014.6	8070.6	9100.8	9279.8	8701.1	8164.1
32.5°	5186.8	5232.6	5505.1	6056.0	6783.9	7975.2	9331.5	9731.3	9065.0	8363.0
35°	4872.6	4914.4	5200.8	5753.7	6481.6	7822.0	9524.5	10232.5	9586.1	8665.3
37.5°	4490.8	4530.5	4814.9	5375.8	6181.3	7607.2	9671.6	10797.3	10206.6	9100.8
40°	4106.9	4144.7	4411.2	4954.2	5821.3	7332.8	9723.3	11350.2	10918.6	9699.5
42.5°	3754.9	3788.7	4033.3	4538.5	5417.5	6982.8	9655.7	11831.5	11557.0	10117.1
45°	3430.7	3460.5	3677.3	4148.7	4997.9	6557.1	9452.9	12348.6	12316.8	10415.5
47.5°	3060.8	3090.6	3315.4	3770.8	4578.3	6057.9	9108.8	12857.7	13372.8	11091.7
50°	2609.3	2635.2	2865.9	3335.3	4142.7	5526.9	8631.5	13257.5	14705.3	12115.9
52.5°	2074.3	2102.2	2326.9	2796.3	3625.6	4956.1	8003.0	13518.0	16244.7	13611.5
55°	1543.3	1563.2	1758.1	2179.7	2985.2	4305.8	7215.4	13591.6	17990.9	15656.0
57.5°	1119.7	1131.6	1256.9	1571.2	2263.3	3492.4	6258.8	13400.7	20069.2	18277.3
60°	906.9	910.9	948.7	1087.9	1573.2	2573.5	5103.3	12744.4	22324.5	21656.3
62.5°	823.4	823.4	833.3	871.1	1064.0	1698.5	3705.2	11384.0	24742.9	25926.3
65°	765.7	765.7	769.7	787.6	839.3	1081.9	2338.9	9168.5	26781.5	30928.2
67.5°	714.0	716.0	714.0	720.0	749.8	799.5	1356.4	6332.4	27879.3	36111.0
70°	660.3	664.3	654.3	654.3	678.2	680.2	849.2	3472.5	26968.4	40454.6
72.5°	596.6	602.6	586.7	582.7	600.6	592.7	638.4	1666.6	23153.9	41751.3
75°	541.0	548.9	513.1	503.2	503.2	497.2	519.1	855.2	15027.5	34058.6
77.5°	491.2	507.1	449.5	417.7	409.7	391.8	423.6	523.1	6573.1	15990.1
80°	405.7	427.6	369.9	332.1	318.2	298.3	334.1	365.9	1955.0	3713.1
82.5°	302.3	312.2	262.5	236.7	224.7	210.8	250.6	254.6	636.4	1314.6
85°	192.9	196.9	161.1	139.2	133.3	127.3	159.1	139.2	242.6	966.6
87.5°	67.6	77.6	61.7	55.7	59.7	49.7	73.6	41.8	67.6	682.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6992.7  
6996.7  
7042.4  
7090.1  
7108.0  
7124.0  
7163.7  
7251.2  
7384.5  
7527.7  
7702.7  
7911.5  
8066.7  
8239.7  
8528.1  
8917.9  
9504.6  
9866.5  
10077.4  
10701.8  
11626.6  
13008.9  
14902.2  
17328.6  
20461.0  
24325.3  
28903.5  
33925.3  
39879.8  
43262.8  
36429.2  
15658.0  
3556.0  
1485.6  
1404.1  
845.2  
0.0

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