

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: P940013

Luminaire Tested: **GALN-SB2D-850-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940013  
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-SB2D-850-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19257 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

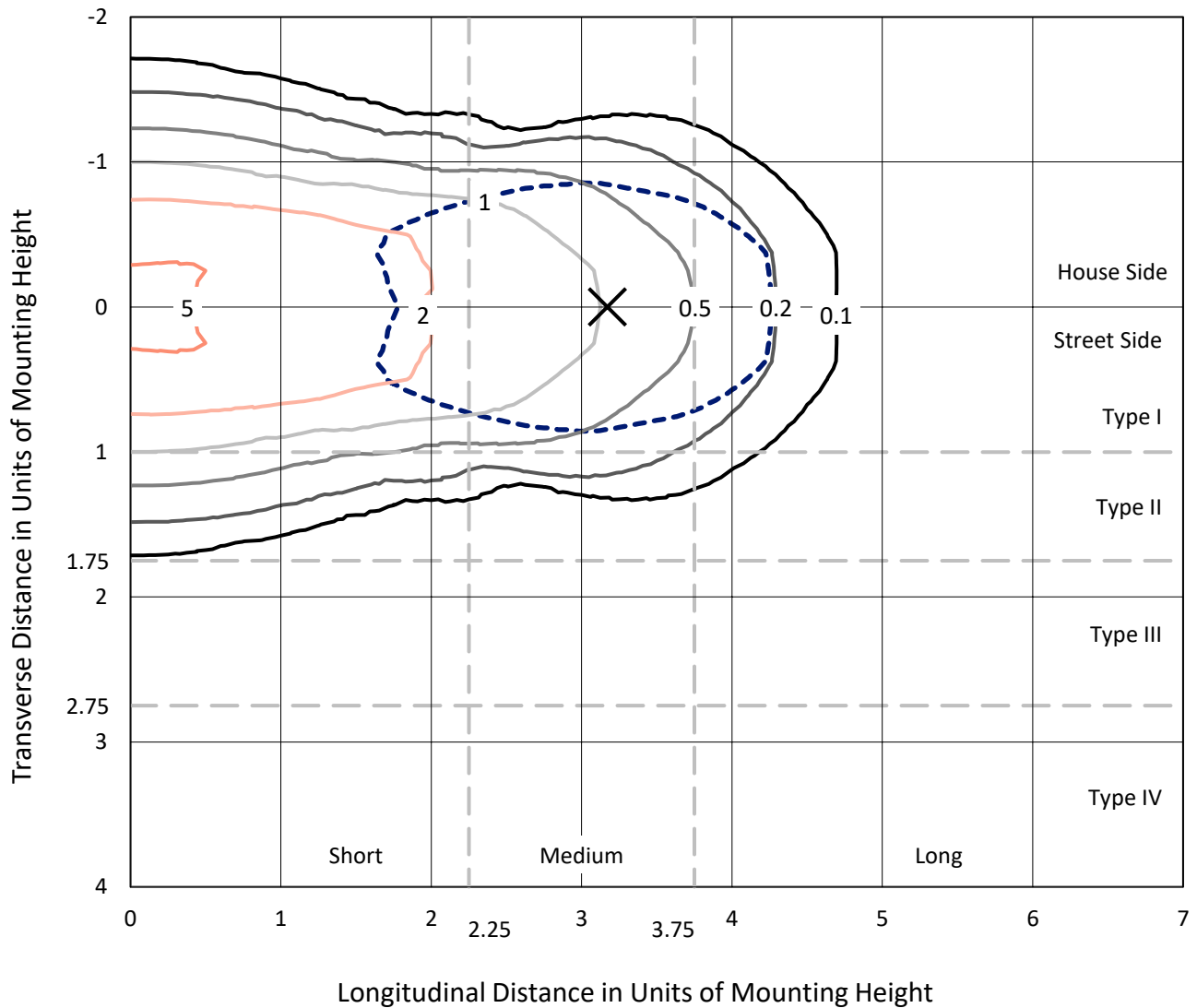
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

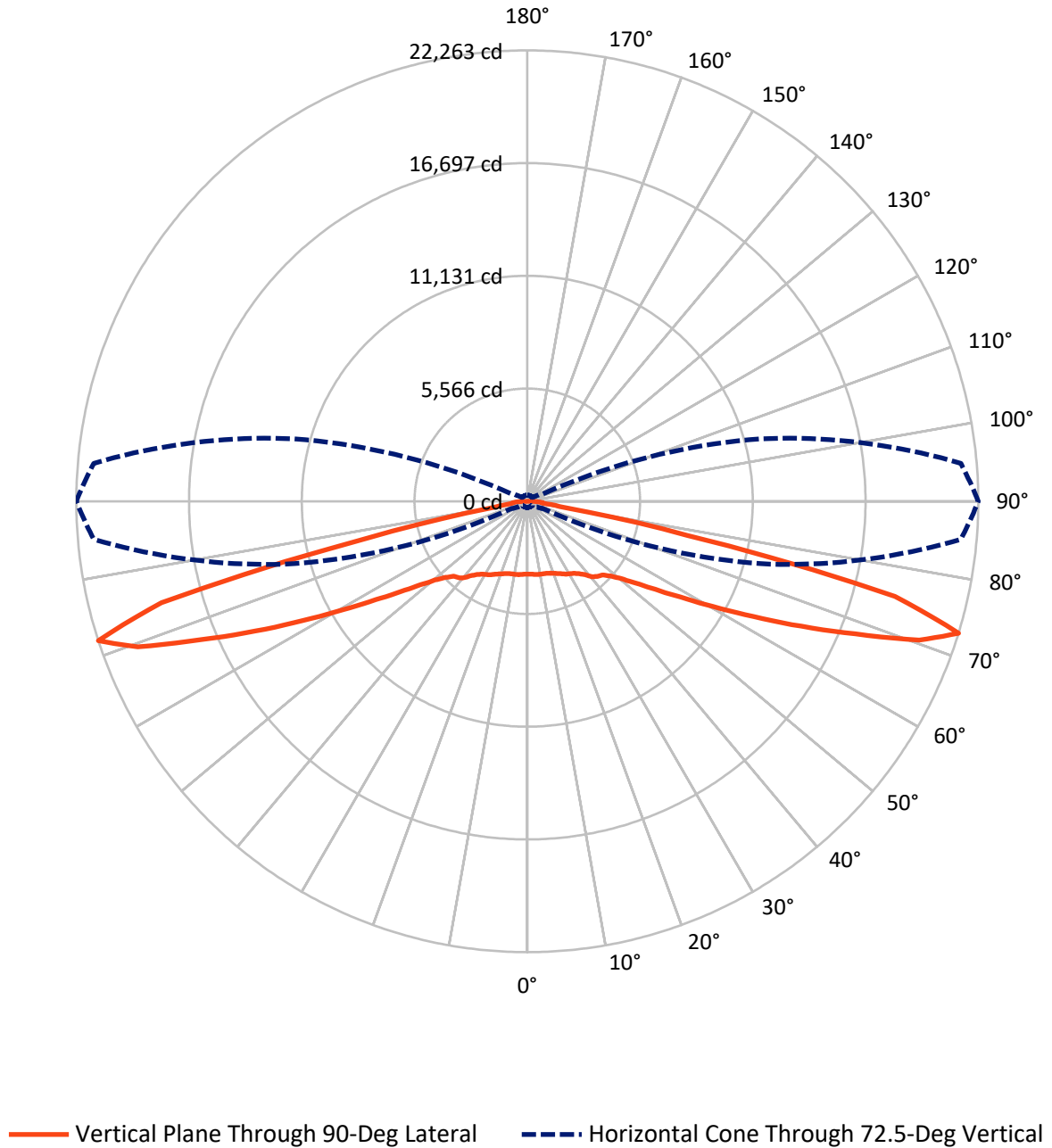
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type 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	9628.5	0.0	9628.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9628.5	0.0	9628.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19257.0	0.0	19257.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.9	1.8
10°-20°	1066.8	5.5
20°-30°	1778.8	9.2
30°-40°	2446.4	12.7
40°-50°	2987.8	15.5
50°-60°	3455.6	17.9
60°-70°	4120.3	21.4
70°-80°	2875.7	14.9
80°-90°	176.6	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°	19257.0	100.0
0°-180°	19257.0	100.0

**Coefficient of Utilization**



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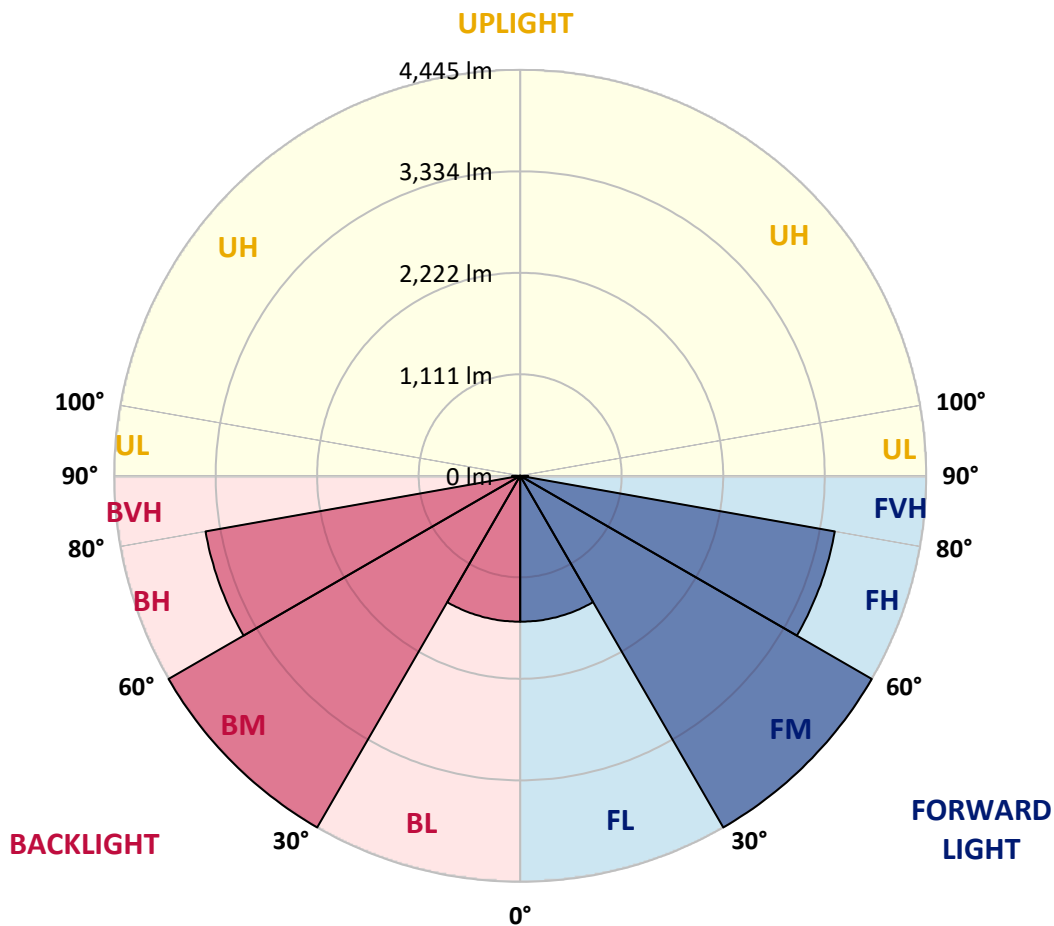
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.3	8.3			
FM (30°-60°)	4444.9	23.1			
FH (60°-80°)	3498.0	18.2			G2/5000
FVH (80°-90°)	88.3	0.5			G1/100
BL (0°-30°)	1597.3	8.3	B3/2500		
BM (30°-60°)	4444.9	23.1	B3/5000		
BH (60°-80°)	3498.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	88.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4
2.5°	3601.4	3605.5	3605.5	3602.5	3609.6	3603.5	3603.5	3600.4	3603.5	3600.4
5°	3619.9	3625.0	3627.0	3626.0	3635.2	3630.1	3630.1	3626.0	3627.0	3624.0
7.5°	3654.7	3661.8	3665.9	3671.0	3684.3	3678.2	3674.1	3661.8	3656.7	3648.5
10°	3665.9	3674.1	3687.4	3714.0	3744.7	3745.7	3733.5	3702.8	3679.2	3660.8
12.5°	3631.1	3642.4	3670.0	3724.3	3792.8	3820.5	3801.0	3749.8	3703.8	3671.0
15°	3587.1	3599.4	3641.4	3723.2	3824.6	3889.0	3887.0	3819.4	3745.7	3694.6
17.5°	3518.5	3530.8	3591.2	3705.8	3849.1	3955.6	3984.2	3914.6	3811.2	3742.7
20°	3394.7	3406.0	3489.9	3650.6	3857.3	4026.2	4100.9	4039.5	3910.5	3817.4
22.5°	3234.0	3251.4	3349.7	3555.4	3837.9	4099.9	4233.9	4192.0	4026.2	3897.2
25°	3062.1	3080.5	3195.1	3438.7	3787.7	4153.1	4391.5	4364.9	4157.2	3996.5
27.5°	2913.7	2933.1	3058.0	3323.1	3709.9	4173.5	4547.1	4560.4	4315.8	4106.0
30°	2797.0	2815.5	2948.5	3229.9	3609.6	4153.1	4683.2	4775.3	4477.5	4201.2
32.5°	2669.1	2692.6	2832.8	3116.3	3490.9	4103.9	4801.9	5007.6	4664.8	4303.5
35°	2507.4	2528.9	2676.3	2960.8	3335.4	4025.1	4901.2	5265.5	4932.9	4459.1
37.5°	2310.9	2331.4	2477.7	2766.3	3180.8	3914.6	4976.9	5556.2	5252.2	4683.2
40°	2113.4	2132.8	2270.0	2549.4	2995.6	3773.4	5003.5	5840.7	5618.6	4991.3
42.5°	1932.2	1949.6	2075.5	2335.5	2787.8	3593.3	4968.7	6088.4	5947.1	5206.2
45°	1765.4	1780.8	1892.3	2134.9	2571.9	3374.2	4864.4	6354.5	6338.1	5359.7
47.5°	1575.1	1590.4	1706.1	1940.4	2355.9	3117.4	4687.3	6616.5	6881.5	5707.7
50°	1342.7	1356.0	1474.8	1716.3	2131.8	2844.1	4441.7	6822.2	7567.2	6234.7
52.5°	1067.4	1081.8	1197.4	1438.9	1865.7	2550.4	4118.3	6956.2	8359.4	7004.3
55°	794.2	804.4	904.7	1121.7	1536.2	2215.7	3713.0	6994.1	9257.9	8056.4
57.5°	576.2	582.3	646.8	808.5	1164.7	1797.1	3220.7	6895.9	10327.4	9405.3
60°	466.7	468.7	488.2	559.8	809.5	1324.3	2626.1	6558.1	11488.0	11144.1
62.5°	423.7	423.7	428.8	448.3	547.5	874.0	1906.6	5858.1	12732.5	13341.4
65°	394.0	394.0	396.1	405.3	431.9	556.7	1203.6	4718.0	13781.5	15915.3
67.5°	367.4	368.4	367.4	370.5	385.8	411.4	698.0	3258.6	14346.4	18582.4
70°	339.8	341.8	336.7	336.7	349.0	350.0	437.0	1786.9	13877.7	20817.6
72.5°	307.0	310.1	301.9	299.9	309.1	305.0	328.5	857.6	11914.8	21484.8
75°	278.4	282.5	264.0	258.9	258.9	255.9	267.1	440.1	7733.0	17526.2
77.5°	252.8	261.0	231.3	214.9	210.8	201.6	218.0	269.2	3382.4	8228.4
80°	208.8	220.0	190.4	170.9	163.7	153.5	171.9	188.3	1006.0	1910.7
82.5°	155.6	160.7	135.1	121.8	115.6	108.5	129.0	131.0	327.5	676.5
85°	99.3	101.3	82.9	71.6	68.6	65.5	81.9	71.6	124.9	497.4
87.5°	34.8	39.9	31.7	28.7	30.7	25.6	37.9	21.5	34.8	351.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3598.4  
3600.4  
3624.0  
3648.5  
3657.7  
3665.9  
3686.4  
3731.4  
3800.0  
3873.7  
3963.7  
4071.2  
4151.0  
4240.1  
4388.5  
4589.1  
4891.0  
5077.2  
5185.7  
5507.1  
5983.0  
6694.2  
7668.5  
8917.1  
10529.0  
12517.6  
14873.5  
17457.6  
20521.8  
22262.6  
18746.1  
8057.5  
1829.9  
764.5  
722.5  
435.0  
0.0

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