

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: P941513

Luminaire Tested: **GALN-SB5A-830-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941513  
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-SB5A-830-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20142 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

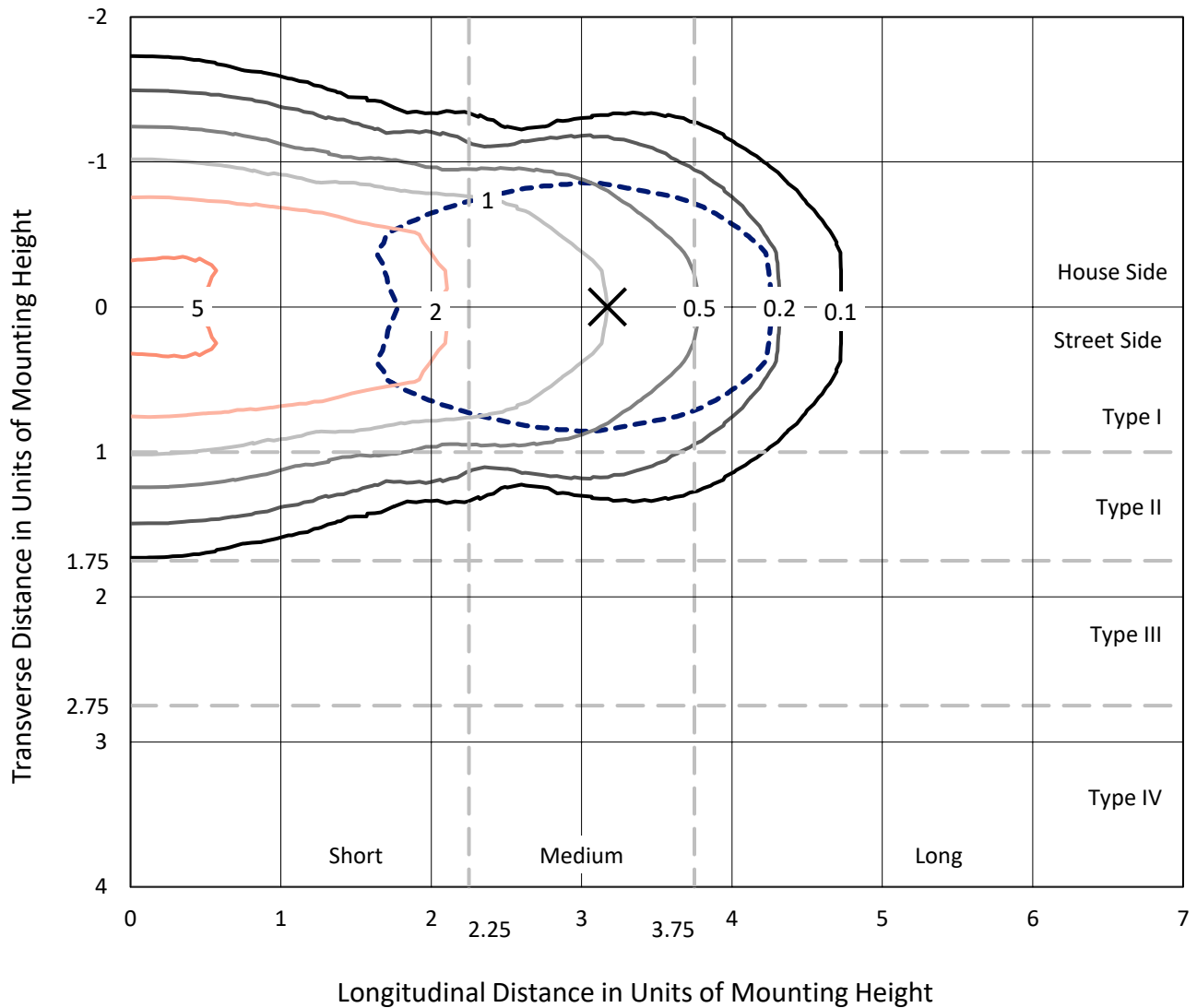
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

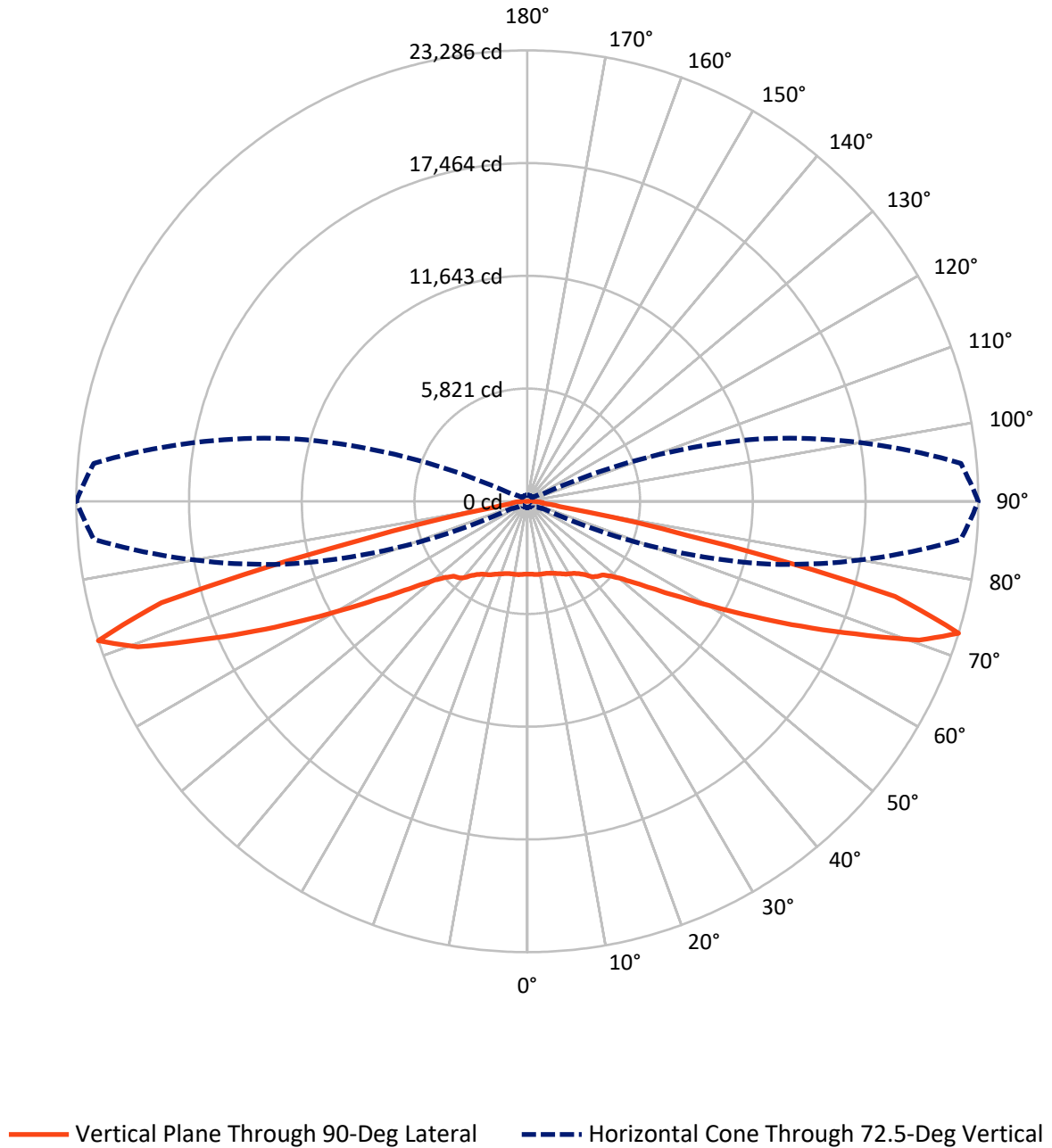
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	10071.0	0.0	10071.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10071.0	0.0	10071.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20142.0	0.0	20142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.9	1.8
10°-20°	1115.8	5.5
20°-30°	1860.6	9.2
30°-40°	2558.9	12.7
40°-50°	3125.1	15.5
50°-60°	3614.5	17.9
60°-70°	4309.7	21.4
70°-80°	3007.9	14.9
80°-90°	184.7	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°	20142.0	100.0
0°-180°	20142.0	100.0

**Coefficient of Utilization**



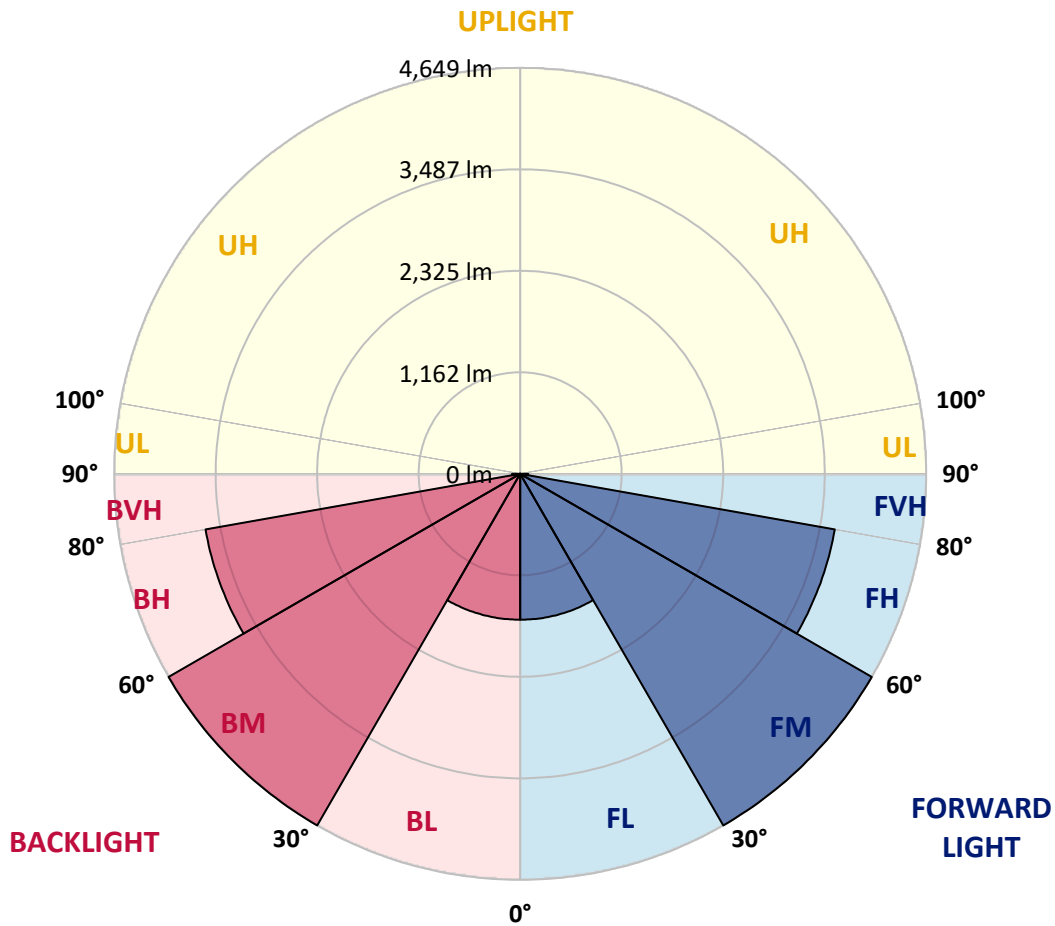
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.7	8.3			
FM (30°-60°)	4649.2	23.1			
FH (60°-80°)	3658.8	18.2			G2/5000
FVH (80°-90°)	92.4	0.5			G1/100
BL (0°-30°)	1670.7	8.3	B3/2500		
BM (30°-60°)	4649.2	23.1	B3/5000		
BH (60°-80°)	3658.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	92.4	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°	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7	3763.7
2.5°	3767.0	3771.2	3771.2	3768.0	3775.5	3769.1	3769.1	3765.9	3769.1	3765.9
5°	3786.2	3791.6	3793.7	3792.6	3802.3	3796.9	3796.9	3792.6	3793.7	3790.5
7.5°	3822.6	3830.1	3834.4	3839.7	3853.7	3847.2	3843.0	3830.1	3824.8	3816.2
10°	3834.4	3843.0	3856.9	3884.7	3916.8	3917.9	3905.0	3872.9	3848.3	3829.0
12.5°	3798.0	3809.8	3838.7	3895.4	3967.1	3996.0	3975.7	3922.2	3874.0	3839.7
15°	3752.0	3764.8	3808.7	3894.3	4000.3	4067.8	4065.6	3995.0	3917.9	3864.4
17.5°	3680.2	3693.1	3756.3	3876.1	4026.0	4137.3	4167.3	4094.5	3986.4	3914.7
20°	3550.7	3562.5	3650.3	3818.3	4034.6	4211.2	4289.3	4225.1	4090.2	3992.8
22.5°	3382.7	3400.9	3503.6	3718.8	4014.2	4288.3	4428.5	4384.6	4211.2	4076.3
25°	3202.8	3222.1	3342.0	3596.8	3961.8	4343.9	4593.4	4565.5	4348.2	4180.2
27.5°	3047.6	3067.9	3198.5	3475.8	3880.4	4365.3	4756.1	4770.0	4514.1	4294.7
30°	2925.6	2944.8	3084.0	3378.4	3775.5	4343.9	4898.4	4994.8	4683.3	4394.2
32.5°	2791.8	2816.4	2963.0	3259.6	3651.3	4292.6	5022.6	5237.8	4879.2	4501.3
35°	2622.6	2645.1	2799.3	3096.8	3488.6	4210.1	5126.4	5507.5	5159.6	4664.0
37.5°	2417.1	2438.5	2591.6	2893.5	3327.0	4094.5	5205.7	5811.5	5493.6	4898.4
40°	2210.5	2230.8	2374.3	2666.5	3133.2	3946.8	5233.5	6109.1	5876.8	5220.6
42.5°	2021.0	2039.2	2170.9	2442.8	2915.9	3758.4	5197.1	6368.2	6220.5	5445.4
45°	1846.5	1862.6	1979.3	2233.0	2690.1	3529.3	5087.9	6646.5	6629.4	5606.0
47.5°	1647.4	1663.5	1784.5	2029.6	2464.2	3260.6	4902.7	6920.5	7197.8	5970.0
50°	1404.4	1418.4	1542.5	1795.2	2229.8	2974.8	4645.8	7135.7	7915.0	6521.3
52.5°	1116.5	1131.5	1252.4	1505.1	1951.5	2667.6	4307.5	7275.9	8743.5	7326.2
55°	830.7	841.4	946.3	1173.2	1606.8	2317.6	3883.6	7315.5	9683.4	8426.7
57.5°	602.7	609.1	676.5	845.7	1218.2	1879.7	3368.7	7212.8	10802.0	9837.5
60°	488.1	490.3	510.6	585.5	846.7	1385.2	2746.8	6859.5	12015.9	11656.3
62.5°	443.2	443.2	448.5	468.9	572.7	914.2	1994.3	6127.3	13317.6	13954.5
65°	412.1	412.1	414.3	423.9	451.7	582.3	1258.9	4934.8	14414.8	16646.8
67.5°	384.3	385.4	384.3	387.5	403.6	430.3	730.1	3408.4	15005.7	19436.4
70°	355.4	357.5	352.2	352.2	365.0	366.1	457.1	1869.0	14515.5	21774.3
72.5°	321.1	324.4	315.8	313.6	323.3	319.0	343.6	897.0	12462.3	22472.2
75°	291.2	295.4	276.2	270.8	270.8	267.6	279.4	460.3	8088.4	18331.7
77.5°	264.4	273.0	241.9	224.8	220.5	210.9	228.0	281.5	3537.9	8606.5
80°	218.4	230.1	199.1	178.8	171.3	160.6	179.8	197.0	1052.3	1998.6
82.5°	162.7	168.1	141.3	127.4	121.0	113.5	134.9	137.0	342.5	707.6
85°	103.8	106.0	86.7	74.9	71.7	68.5	85.6	74.9	130.6	520.2
87.5°	36.4	41.7	33.2	30.0	32.1	26.8	39.6	22.5	36.4	367.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3763.7  
3765.9  
3790.5  
3816.2  
3825.8  
3834.4  
3855.8  
3902.9  
3974.6  
4051.7  
4145.9  
4258.3  
4341.8  
4434.9  
4590.1  
4800.0  
5115.7  
5310.6  
5424.0  
5760.2  
6257.9  
7001.9  
8021.0  
9326.9  
11012.9  
13092.8  
15557.0  
18259.9  
21464.9  
23285.8  
19607.7  
8427.7  
1914.0  
799.6  
755.7  
454.9  
0.0

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