

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: P941003

Luminaire Tested: **GALN-SB4B-830-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941003  
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-SB4B-830-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20061 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

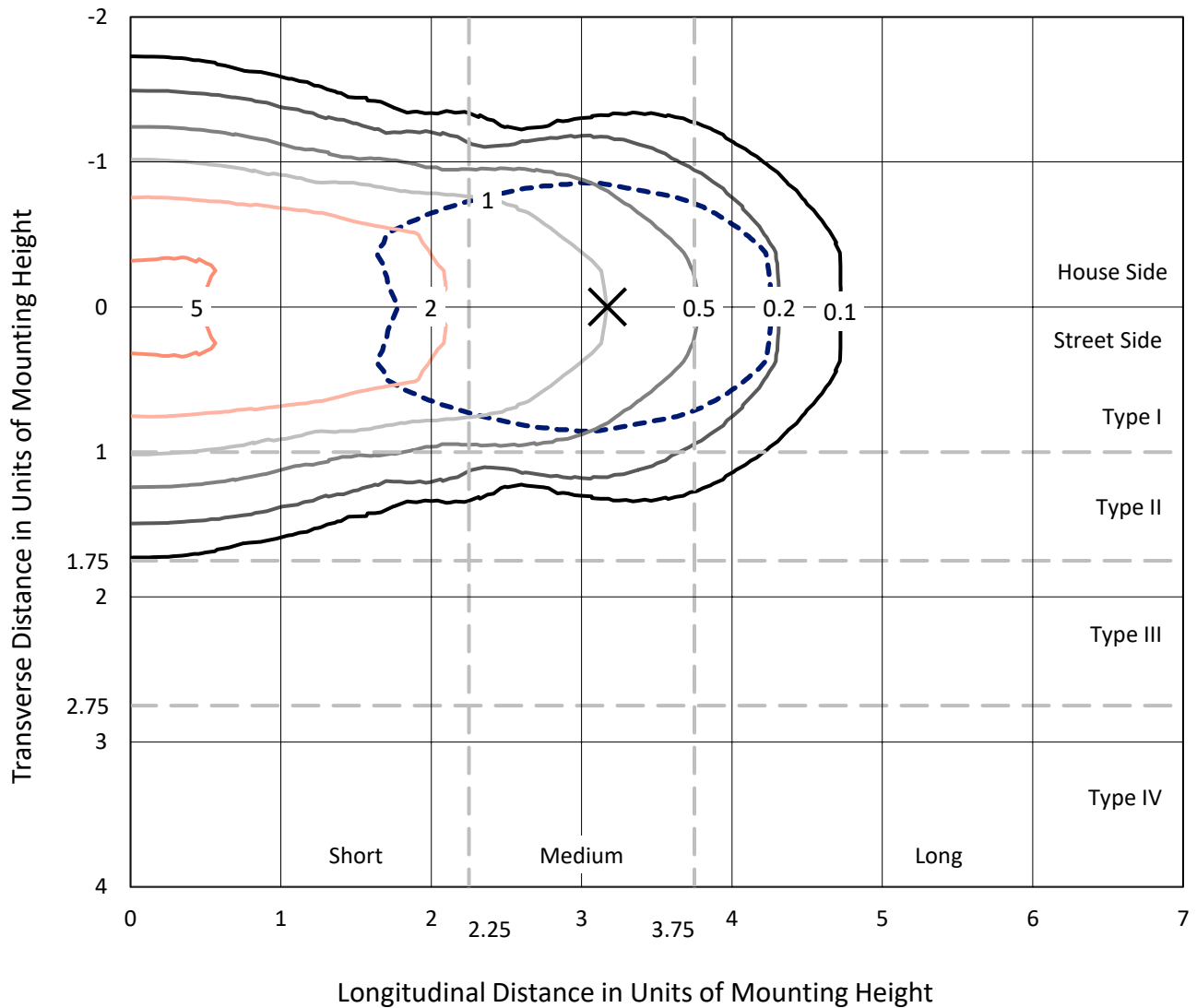
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

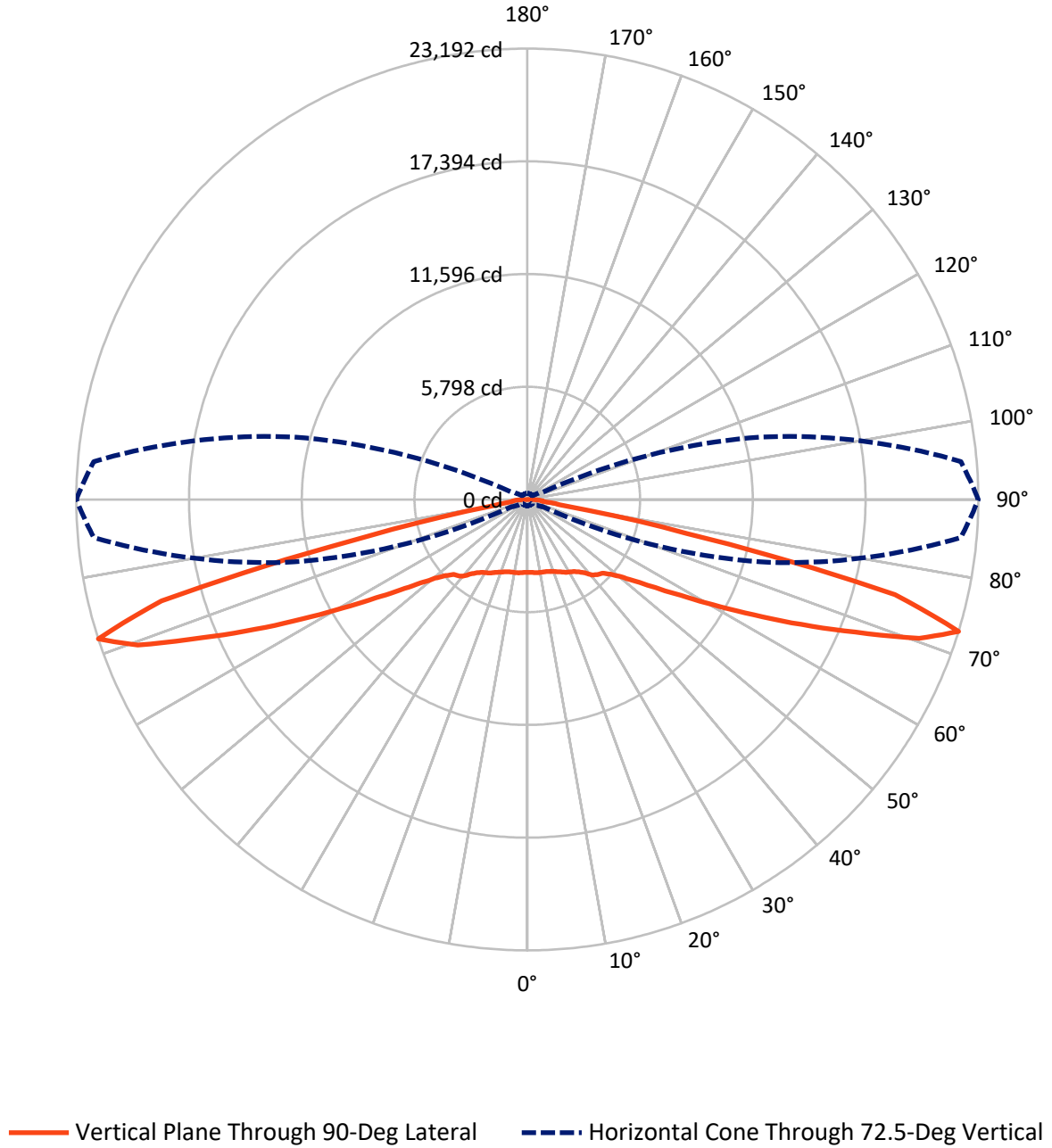
× Max cd  
 - - - 1/2 Max cd



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	10030.5	0.0	10030.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10030.5	0.0	10030.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20061.0	0.0	20061.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.5	1.8
10°-20°	1111.4	5.5
20°-30°	1853.1	9.2
30°-40°	2548.6	12.7
40°-50°	3112.5	15.5
50°-60°	3599.9	17.9
60°-70°	4292.3	21.4
70°-80°	2995.8	14.9
80°-90°	184.0	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°	20061.0	100.0
0°-180°	20061.0	100.0



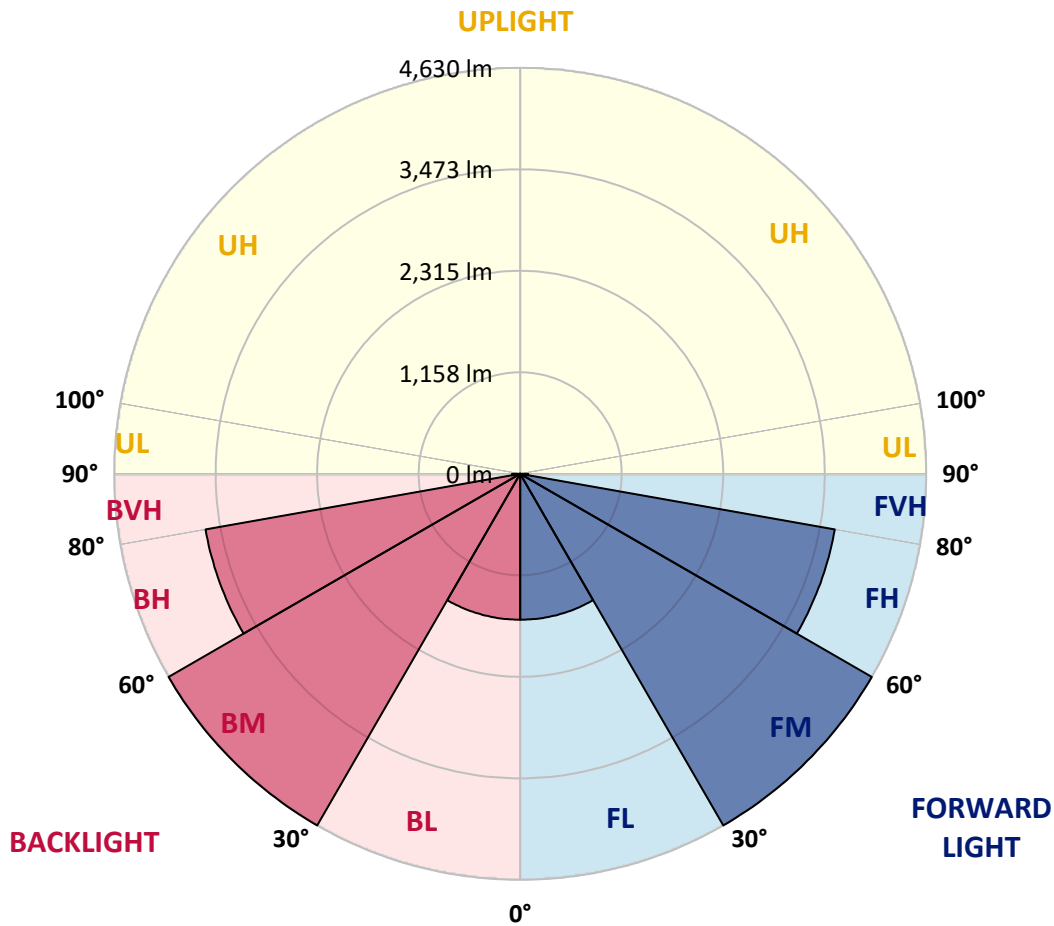
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.0	8.3			
FM (30°-60°)	4630.5	23.1			
FH (60°-80°)	3644.0	18.2			G2/5000
FVH (80°-90°)	92.0	0.5			G1/100
BL (0°-30°)	1664.0	8.3	B3/2500		
BM (30°-60°)	4630.5	23.1	B3/5000		
BH (60°-80°)	3644.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	92.0	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°	3748.6	3748.6	3748.6	3748.6	3748.6	3748.6	3748.6	3748.6	3748.6	3748.6
2.5°	3751.8	3756.1	3756.1	3752.9	3760.3	3753.9	3753.9	3750.7	3753.9	3750.7
5°	3771.0	3776.3	3778.5	3777.4	3787.0	3781.7	3781.7	3777.4	3778.5	3775.3
7.5°	3807.2	3814.7	3819.0	3824.3	3838.2	3831.8	3827.5	3814.7	3809.4	3800.9
10°	3819.0	3827.5	3841.4	3869.1	3901.1	3902.1	3889.3	3857.4	3832.8	3813.6
12.5°	3782.7	3794.5	3823.2	3879.7	3951.2	3980.0	3959.7	3906.4	3858.4	3824.3
15°	3736.9	3749.7	3793.4	3878.7	3984.2	4051.4	4049.3	3978.9	3902.1	3848.8
17.5°	3665.4	3678.2	3741.1	3860.6	4009.8	4120.7	4150.6	4078.1	3970.4	3898.9
20°	3536.4	3548.2	3635.6	3803.0	4018.3	4194.3	4272.1	4208.1	4073.8	3976.8
22.5°	3369.1	3387.2	3489.5	3703.8	3998.1	4271.0	4410.7	4367.0	4194.3	4059.9
25°	3189.9	3209.1	3328.5	3582.3	3945.8	4326.5	4574.9	4547.2	4330.7	4163.3
27.5°	3035.4	3055.6	3185.7	3461.8	3864.8	4347.8	4736.9	4750.8	4496.0	4277.4
30°	2913.8	2933.0	3071.6	3364.8	3760.3	4326.5	4878.7	4974.7	4664.4	4376.6
32.5°	2780.5	2805.1	2951.1	3246.4	3636.7	4275.3	5002.4	5216.7	4859.5	4483.2
35°	2612.1	2634.5	2788.0	3084.4	3474.6	4193.2	5105.8	5485.4	5138.9	4645.2
37.5°	2407.4	2428.7	2581.2	2881.8	3313.6	4078.1	5184.7	5788.2	5471.5	4878.7
40°	2201.6	2221.9	2364.7	2655.8	3120.6	3930.9	5212.4	6084.6	5853.2	5199.6
42.5°	2012.9	2031.0	2162.2	2433.0	2904.2	3743.3	5176.2	6342.6	6195.4	5423.5
45°	1839.1	1855.1	1971.3	2224.0	2679.3	3515.1	5067.4	6619.8	6602.7	5583.5
47.5°	1640.8	1656.8	1777.3	2021.4	2454.3	3247.5	4883.0	6892.7	7168.8	5946.0
50°	1398.8	1412.7	1536.3	1787.9	2220.8	2962.9	4627.1	7107.0	7883.2	6495.0
52.5°	1112.0	1126.9	1247.4	1499.0	1943.6	2656.9	4290.2	7246.7	8708.4	7296.8
55°	827.3	838.0	942.5	1168.5	1600.3	2308.2	3868.0	7286.1	9644.5	8392.8
57.5°	600.2	606.6	673.8	842.3	1213.3	1872.2	3355.2	7183.8	10758.6	9798.0
60°	486.2	488.3	508.6	583.2	843.3	1379.6	2735.8	6831.9	11967.6	11609.4
62.5°	441.4	441.4	446.7	467.0	570.4	910.5	1986.3	6102.7	13264.1	13898.4
65°	410.5	410.5	412.6	422.2	449.9	580.0	1253.8	4915.0	14356.9	16579.8
67.5°	382.8	383.8	382.8	385.9	401.9	428.6	727.1	3394.6	14945.4	19358.2
70°	354.0	356.1	350.8	350.8	363.6	364.6	455.2	1861.5	14457.1	21686.7
72.5°	319.8	323.0	314.5	312.4	322.0	317.7	342.2	893.4	12412.2	22381.8
75°	290.0	294.3	275.1	269.7	269.7	266.5	278.3	458.4	8055.9	18257.9
77.5°	263.3	271.9	241.0	223.9	219.6	210.0	227.1	280.4	3523.7	8571.9
80°	217.5	229.2	198.3	178.0	170.6	159.9	179.1	196.2	1048.0	1990.5
82.5°	162.1	167.4	140.7	126.9	120.5	113.0	134.3	136.5	341.2	704.7
85°	103.4	105.5	86.4	74.6	71.4	68.2	85.3	74.6	130.1	518.2
87.5°	36.2	41.6	33.1	29.9	32.0	26.7	39.4	22.4	36.2	365.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3748.6  
3750.7  
3775.3  
3800.9  
3810.4  
3819.0  
3840.3  
3887.2  
3958.6  
4035.4  
4129.2  
4241.2  
4324.3  
4417.1  
4571.7  
4780.7  
5095.2  
5289.2  
5402.2  
5737.0  
6232.8  
6973.7  
7988.7  
9289.4  
10968.6  
13040.2  
15494.5  
18186.5  
21378.6  
23192.1  
19528.8  
8393.9  
1906.3  
796.4  
752.7  
453.1  
0.0

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