

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: P940933

Luminaire Tested: **GALN-SB4B-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940933  
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-727-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20708 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

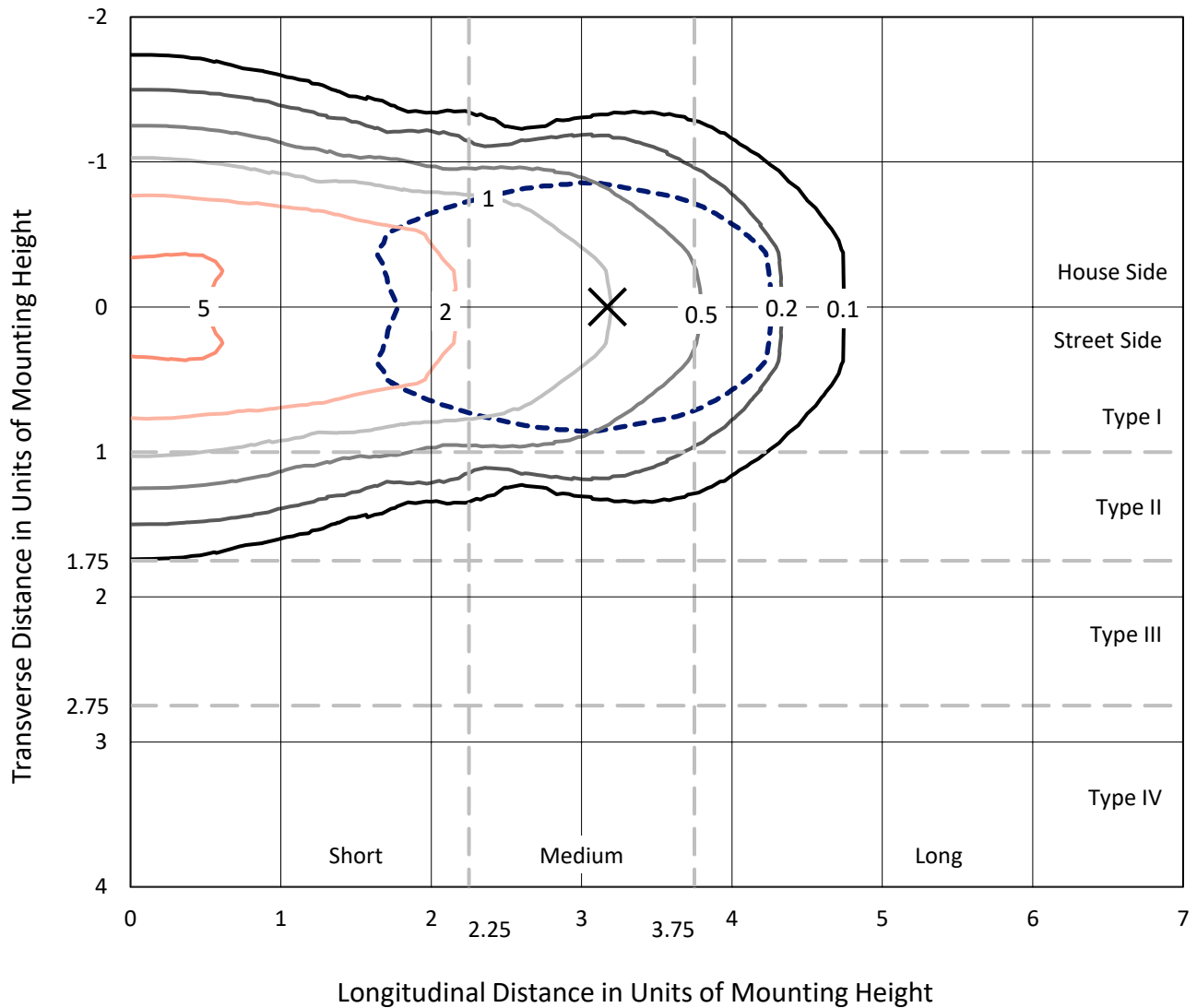
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

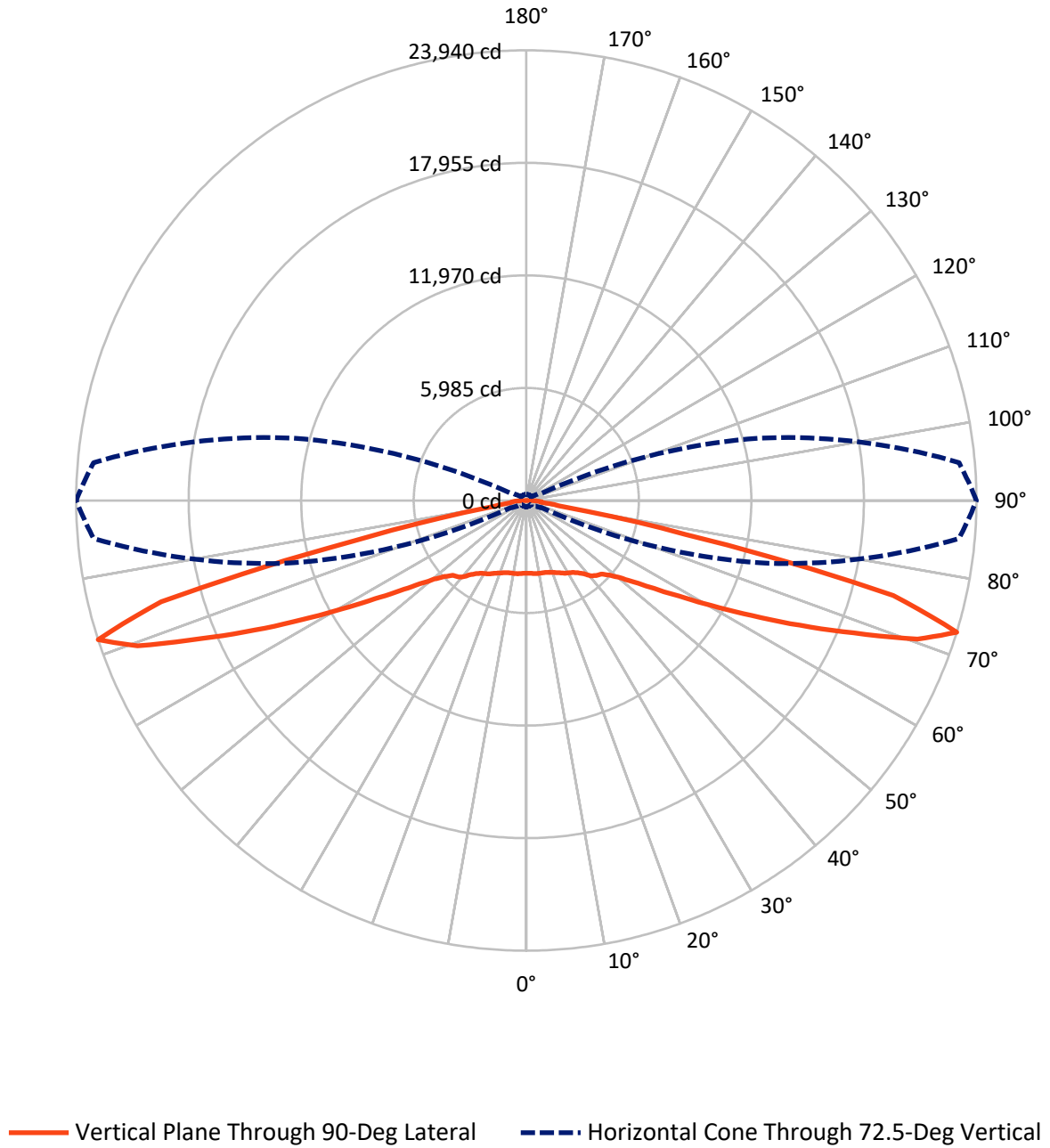
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	10354.0	0.0	10354.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10354.0	0.0	10354.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20708.0	0.0	20708.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.2	1.8
10°-20°	1147.2	5.5
20°-30°	1912.8	9.2
30°-40°	2630.8	12.7
40°-50°	3212.9	15.5
50°-60°	3716.0	17.9
60°-70°	4430.8	21.4
70°-80°	3092.4	14.9
80°-90°	189.9	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°	20708.0	100.0
0°-180°	20708.0	100.0



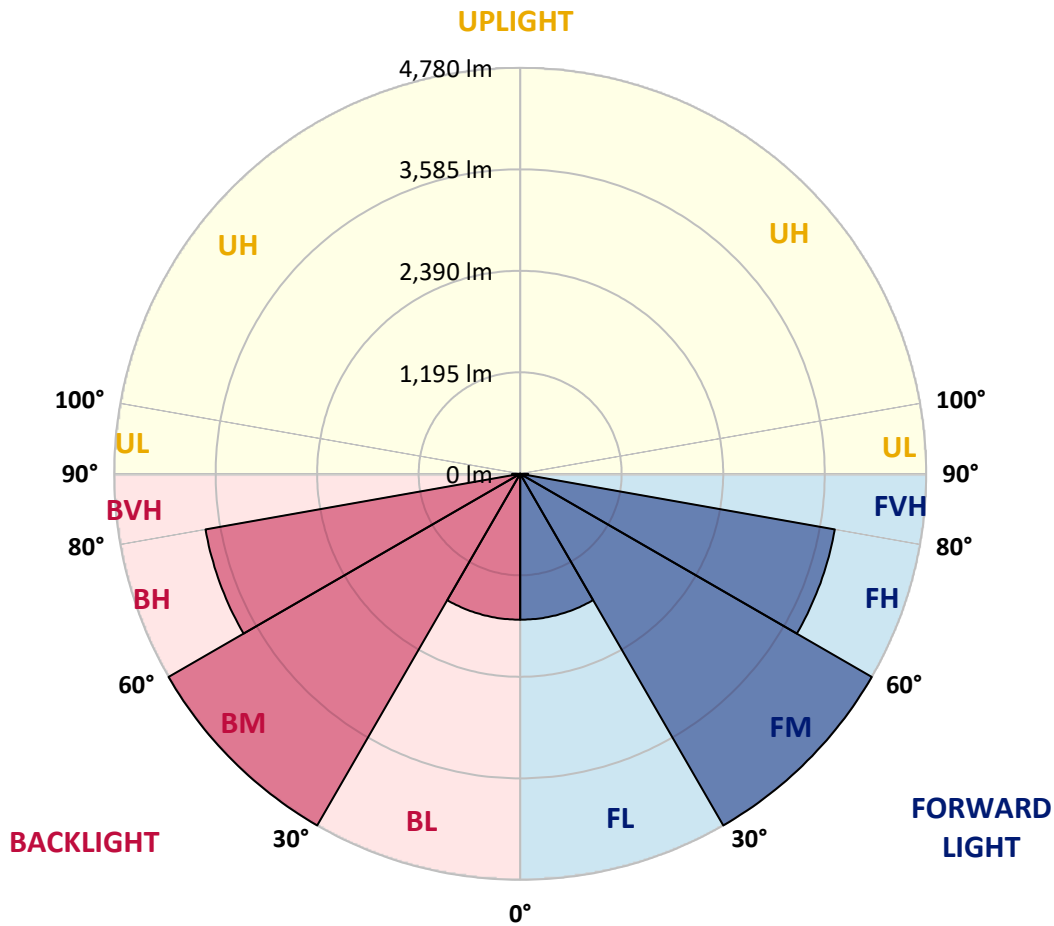
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1717.6	8.3			
FM (30°-60°)	4779.8	23.1			
FH (60°-80°)	3761.6	18.2			G2/5000
FVH (80°-90°)	95.0	0.5			G1/100
BL (0°-30°)	1717.6	8.3	B3/2500		
BM (30°-60°)	4779.8	23.1	B3/5000		
BH (60°-80°)	3761.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	95.0	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°	90°
0°	3869.5	3869.5	3869.5	3869.5	3869.5	3869.5	3869.5	3869.5	3869.5	3869.5	3869.5
2.5°	3872.8	3877.2	3877.2	3873.9	3881.6	3875.0	3875.0	3871.7	3875.0	3871.7	3871.7
5°	3892.6	3898.1	3900.3	3899.2	3909.1	3903.6	3903.6	3899.2	3900.3	3897.0	3897.0
7.5°	3930.0	3937.7	3942.1	3947.6	3962.0	3955.4	3950.9	3937.7	3932.2	3923.4	3923.4
10°	3942.1	3950.9	3965.3	3993.9	4026.9	4028.0	4014.8	3981.8	3956.5	3936.6	3933.3
12.5°	3904.7	3916.8	3946.5	4004.9	4078.6	4108.3	4087.4	4032.4	3982.9	3947.6	3942.1
15°	3857.4	3870.6	3915.7	4003.8	4112.7	4182.1	4179.9	4107.2	4028.0	3973.0	3964.2
17.5°	3783.7	3796.9	3861.8	3985.1	4139.1	4253.6	4284.4	4209.6	4098.4	4024.7	4012.6
20°	3650.5	3662.6	3752.9	3925.6	4147.9	4329.5	4409.9	4343.8	4205.2	4105.0	4086.3
22.5°	3477.7	3496.4	3602.1	3823.3	4127.0	4408.8	4552.9	4507.8	4329.5	4190.9	4165.6
25°	3292.8	3312.6	3435.9	3697.8	4073.1	4466.0	4722.4	4693.8	4470.4	4297.6	4262.4
27.5°	3133.2	3154.2	3288.4	3573.5	3989.5	4488.0	4889.7	4904.0	4641.0	4415.4	4378.0
30°	3007.8	3027.6	3170.7	3473.3	3881.6	4466.0	5036.1	5135.1	4814.9	4517.7	4463.8
32.5°	2870.2	2895.5	3046.3	3351.2	3754.0	4413.2	5163.7	5385.0	5016.3	4627.8	4559.5
35°	2696.3	2719.4	2877.9	3183.9	3586.7	4328.4	5270.5	5662.3	5304.6	4795.1	4719.1
37.5°	2485.0	2507.0	2664.4	2974.8	3420.5	4209.6	5351.9	5974.8	5648.0	5036.1	4934.8
40°	2272.6	2293.5	2441.0	2741.5	3221.3	4057.7	5380.6	6280.8	6042.0	5367.3	5259.5
42.5°	2077.8	2096.5	2231.9	2511.4	2997.9	3864.0	5343.1	6547.1	6395.3	5598.5	5459.8
45°	1898.4	1914.9	2034.9	2295.7	2765.7	3628.5	5230.9	6833.3	6815.7	5763.5	5576.5
47.5°	1693.7	1710.2	1834.6	2086.6	2533.4	3352.3	5040.5	7115.0	7400.0	6137.7	5922.0
50°	1443.9	1458.2	1585.9	1845.6	2292.4	3058.4	4776.4	7336.2	8137.4	6704.5	6433.8
52.5°	1147.9	1163.3	1287.6	1547.4	2006.3	2742.6	4428.6	7480.4	8989.2	7532.1	7198.7
55°	854.0	865.0	972.9	1206.2	1651.9	2382.7	3992.8	7521.1	9955.5	8663.5	8246.4
57.5°	619.6	626.2	695.5	869.4	1252.4	1932.6	3463.4	7415.5	11105.6	10114.0	9589.0
60°	501.8	504.0	525.0	602.0	870.5	1424.1	2824.0	7052.3	12353.6	11983.8	11322.4
62.5°	455.6	455.6	461.1	482.0	588.8	939.9	2050.3	6299.5	13691.9	14346.7	13460.7
65°	423.7	423.7	425.9	435.8	464.4	598.7	1294.2	5073.5	14819.9	17114.5	15994.2
67.5°	395.1	396.2	395.1	398.4	414.9	442.4	750.6	3504.1	15427.4	19982.6	18773.1
70°	365.4	367.6	362.1	362.1	375.3	376.4	469.9	1921.5	14923.4	22386.1	22068.1
72.5°	330.2	333.5	324.7	322.5	332.4	328.0	353.3	922.3	12812.5	23103.7	23940.1
75°	299.3	303.7	283.9	278.4	278.4	275.1	287.2	473.2	8315.7	18846.8	20158.6
77.5°	271.8	280.6	248.7	231.1	226.7	216.8	234.4	289.4	3637.3	8848.4	8664.6
80°	224.5	236.6	204.7	183.8	176.1	165.1	184.9	202.5	1081.8	2054.7	1967.8
82.5°	167.3	172.8	145.3	131.0	124.4	116.7	138.7	140.9	352.2	727.5	822.1
85°	106.8	109.0	89.1	77.0	73.7	70.4	88.0	77.0	134.3	534.9	777.0
87.5°	37.4	42.9	34.1	30.8	33.0	27.5	40.7	23.1	37.4	377.5	467.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)