

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: P941973

Luminaire Tested: **GALN-SB5D-735-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941973  
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-SB5D-735-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50852 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

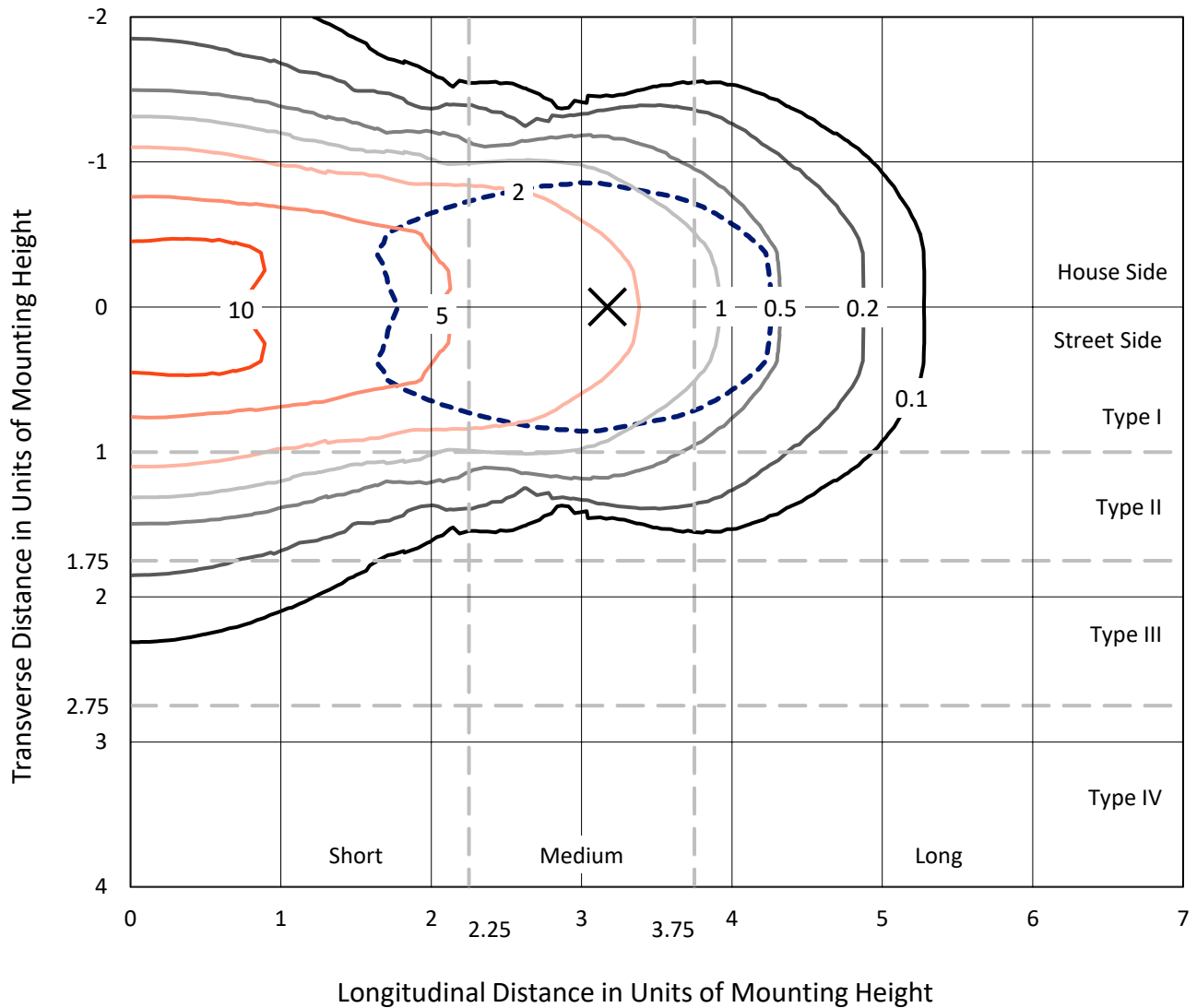
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

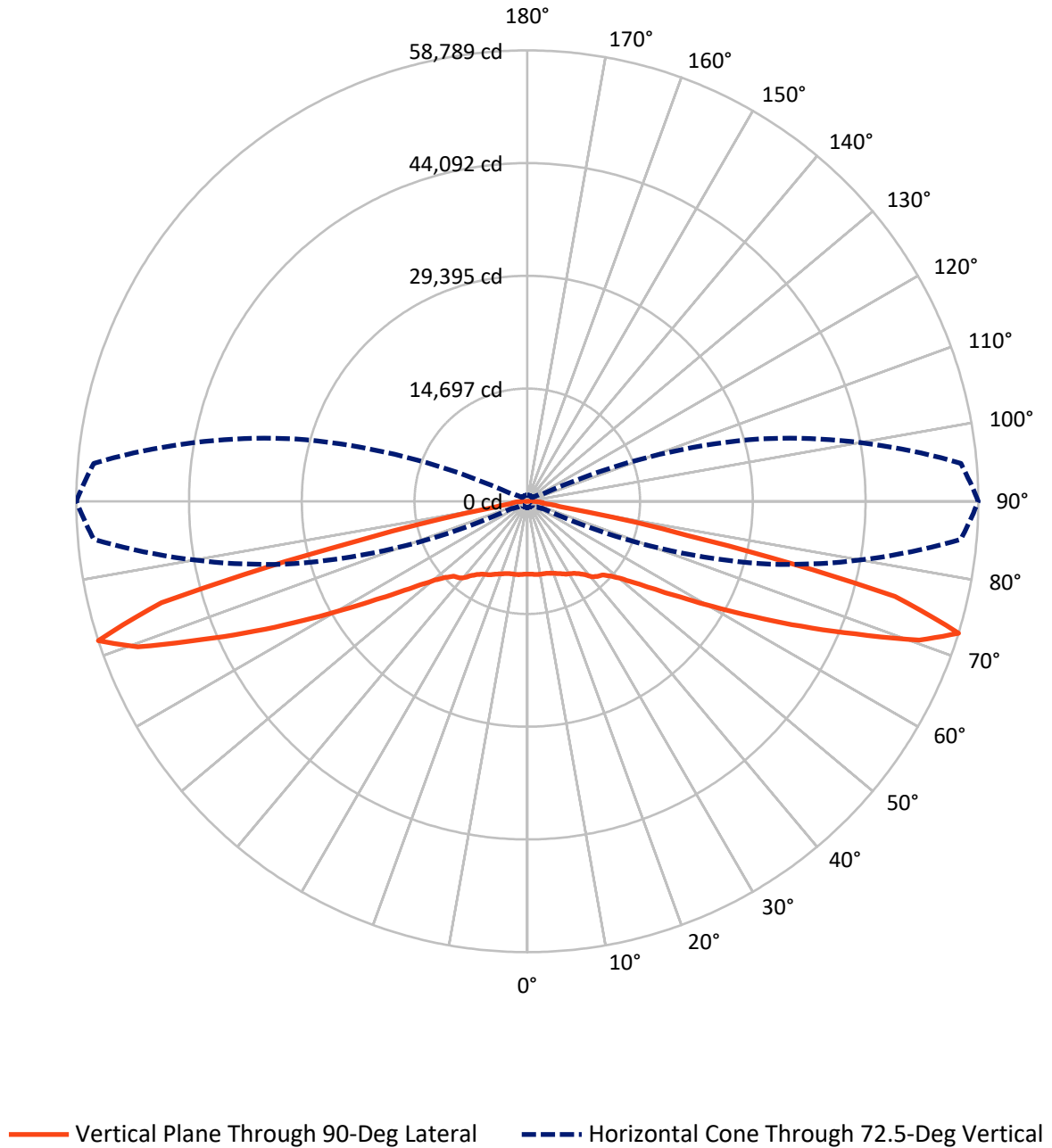
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	25426.0	0.0	25426.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25426.0	0.0	25426.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50852.0	0.0	50852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	921.4	1.8
10°-20°	2817.1	5.5
20°-30°	4697.3	9.2
30°-40°	6460.3	12.7
40°-50°	7889.8	15.5
50°-60°	9125.4	17.9
60°-70°	10880.5	21.4
70°-80°	7593.9	14.9
80°-90°	466.4	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°	50852.0	100.0
0°-180°	50852.0	100.0

**Coefficient of Utilization**



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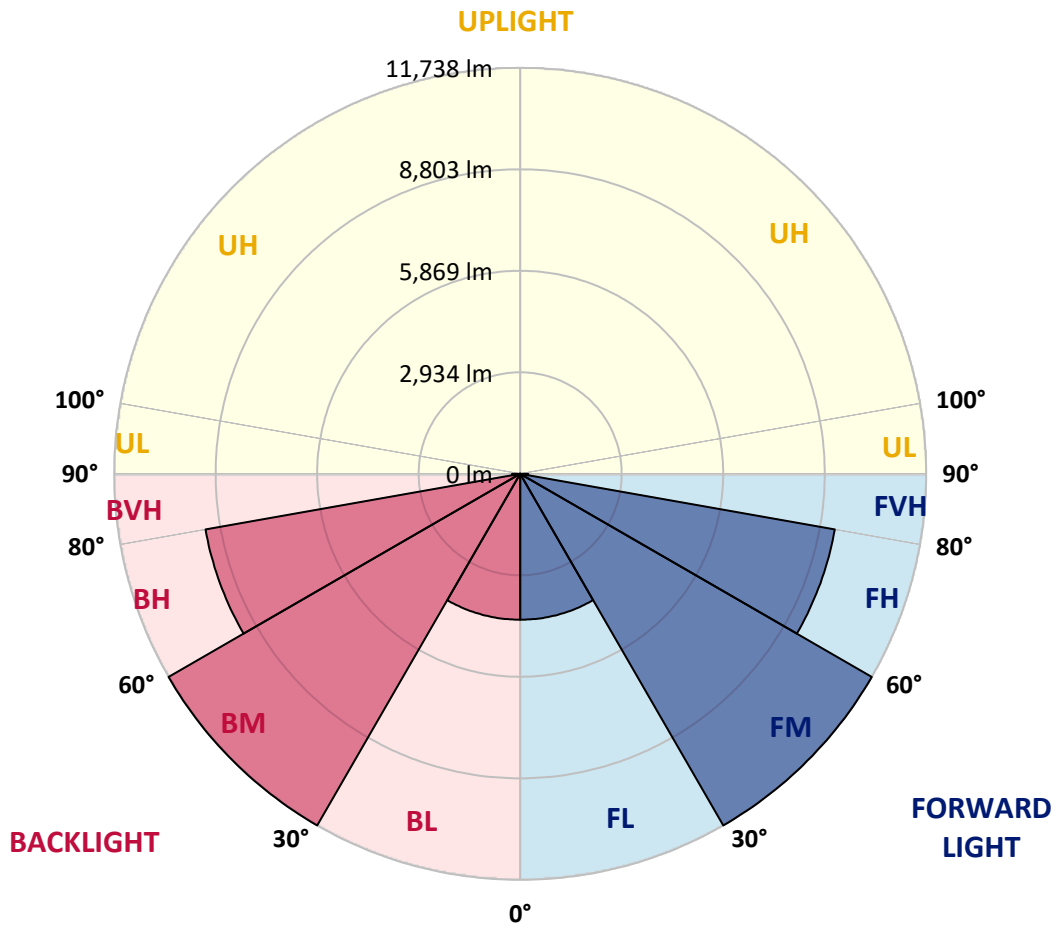
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4217.9	8.3			
FM (30°-60°)	11737.7	23.1			
FH (60°-80°)	9237.2	18.2			G4/12000
FVH (80°-90°)	233.2	0.5			G3/500
BL (0°-30°)	4217.9	8.3	B4/5000		
BM (30°-60°)	11737.7	23.1	B5		
BH (60°-80°)	9237.2	18.2	B5		G5
BVH (80°-90°)	233.2	0.5			G3/500
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°	9502.2	9502.2	9502.2	9502.2	9502.2	9502.2	9502.2	9502.2	9502.2	9502.2
2.5°	9510.3	9521.2	9521.2	9513.0	9532.0	9515.7	9515.7	9507.6	9515.7	9507.6
5°	9559.0	9572.5	9577.9	9575.2	9599.5	9586.0	9586.0	9575.2	9577.9	9569.8
7.5°	9650.9	9669.8	9680.6	9694.1	9729.2	9713.0	9702.2	9669.8	9656.3	9634.7
10°	9680.6	9702.2	9737.4	9807.6	9888.7	9891.4	9859.0	9777.9	9715.7	9667.1
12.5°	9588.7	9618.4	9691.4	9834.6	10015.7	10088.7	10037.3	9902.2	9780.6	9694.1
15°	9472.5	9504.9	9615.7	9831.9	10099.5	10269.8	10264.4	10086.0	9891.4	9756.3
17.5°	9291.4	9323.9	9483.3	9786.0	10164.4	10445.4	10521.1	10337.3	10064.4	9883.3
20°	8964.4	8994.2	9215.8	9640.1	10186.0	10631.9	10829.2	10667.0	10326.5	10080.6
22.5°	8540.1	8586.1	8845.5	9388.7	10134.6	10826.5	11180.5	11069.7	10631.9	10291.4
25°	8086.1	8134.7	8437.4	9080.6	10002.2	10967.0	11596.7	11526.5	10977.8	10553.5
27.5°	7694.2	7745.6	8075.3	8775.2	9796.8	11021.1	12007.5	12042.6	11396.7	10842.7
30°	7386.1	7434.8	7786.1	8529.3	9532.0	10967.0	12367.0	12610.2	11823.7	11094.0
32.5°	7048.3	7110.5	7480.7	8229.3	9218.5	10837.3	12680.5	13223.7	12318.3	11364.3
35°	6621.3	6678.0	7067.2	7818.5	8807.7	10629.2	12942.6	13904.7	13026.4	11775.1
37.5°	6102.4	6156.5	6542.9	7305.0	8399.6	10337.3	13142.6	14672.2	13869.6	12367.0
40°	5580.8	5632.2	5994.3	6732.1	7910.4	9964.4	13212.9	15423.6	14837.1	13180.4
42.5°	5102.5	5148.4	5480.8	6167.3	7361.8	9488.7	13121.0	16077.6	15704.6	13748.0
45°	4661.9	4702.5	4997.1	5637.6	6791.6	8910.4	12845.3	16780.3	16737.0	14153.4
47.5°	4159.3	4199.8	4505.2	5124.1	6221.3	8232.0	12377.8	17472.1	18172.1	15072.2
50°	3545.8	3580.9	3894.4	4532.2	5629.5	7510.4	11729.1	18015.3	19982.8	16464.1
52.5°	2818.8	2856.6	3162.0	3799.8	4926.8	6734.8	10875.1	18369.4	22074.6	18496.4
55°	2097.2	2124.2	2389.1	2962.0	4056.6	5851.1	9804.9	18469.4	24447.4	21274.6
57.5°	1521.5	1537.8	1708.0	2135.0	3075.5	4745.7	8505.0	18209.9	27271.6	24836.6
60°	1232.4	1237.8	1289.1	1478.3	2137.7	3497.1	6934.8	17318.1	30336.3	29428.3
62.5°	1118.9	1118.9	1132.4	1183.7	1445.9	2308.0	5034.9	15469.5	33622.7	35230.7
65°	1040.5	1040.5	1045.9	1070.2	1140.5	1470.2	3178.2	12458.8	36392.8	42027.7
67.5°	970.2	972.9	970.2	978.3	1018.9	1086.4	1843.2	8605.0	37884.6	49070.5
70°	897.3	902.7	889.1	889.1	921.6	924.3	1154.0	4718.7	36646.8	54973.0
72.5°	810.8	818.9	797.3	791.9	816.2	805.4	867.5	2264.8	31463.3	56735.0
75°	735.1	745.9	697.3	683.7	683.7	675.6	705.4	1162.1	20420.6	46281.5
77.5°	667.5	689.2	610.8	567.5	556.7	532.4	575.6	710.8	8932.0	21728.7
80°	551.3	581.1	502.7	451.3	432.4	405.4	454.0	497.3	2656.6	5045.7
82.5°	410.8	424.3	356.7	321.6	305.4	286.5	340.5	345.9	864.8	1786.4
85°	262.1	267.6	218.9	189.2	181.1	173.0	216.2	189.2	329.7	1313.4
87.5°	91.9	105.4	83.8	75.7	81.1	67.6	100.0	56.8	91.9	927.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

9502.2  
9507.6  
9569.8  
9634.7  
9659.0  
9680.6  
9734.7  
9853.6  
10034.6  
10229.2  
10467.1  
10750.8  
10961.6  
11196.7  
11588.6  
12118.3  
12915.6  
13407.4  
13693.9  
14542.5  
15799.2  
17677.5  
20250.4  
23547.5  
27804.0  
33055.1  
39276.4  
46100.4  
54191.9  
58789.0  
49503.0  
21277.3  
4832.2  
2018.8  
1908.0  
1148.6  
0.0

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