

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: P944013

Luminaire Tested: **GALN-SB8D-735-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944013  
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-SB8D-735-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 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: 81402 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

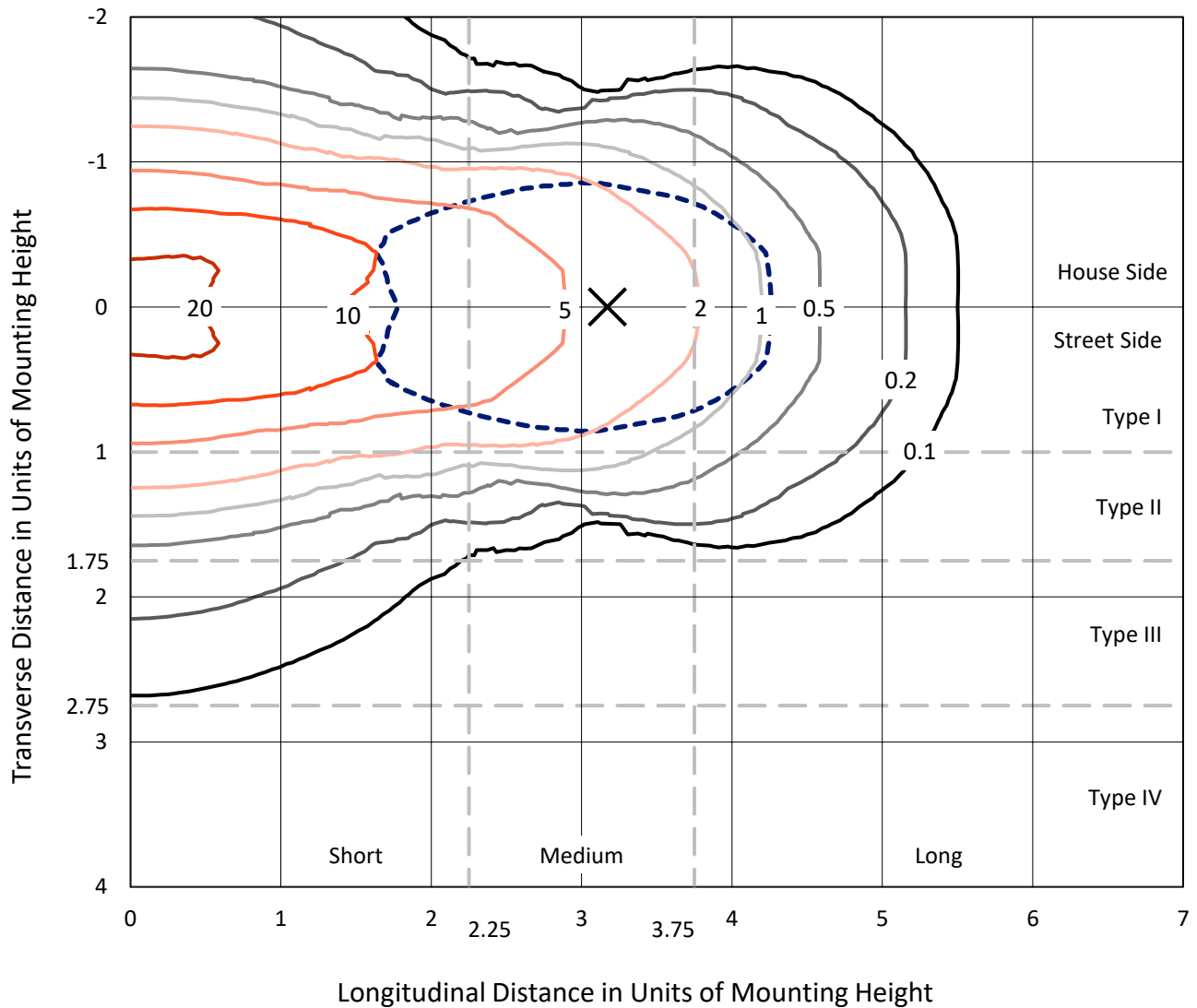
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

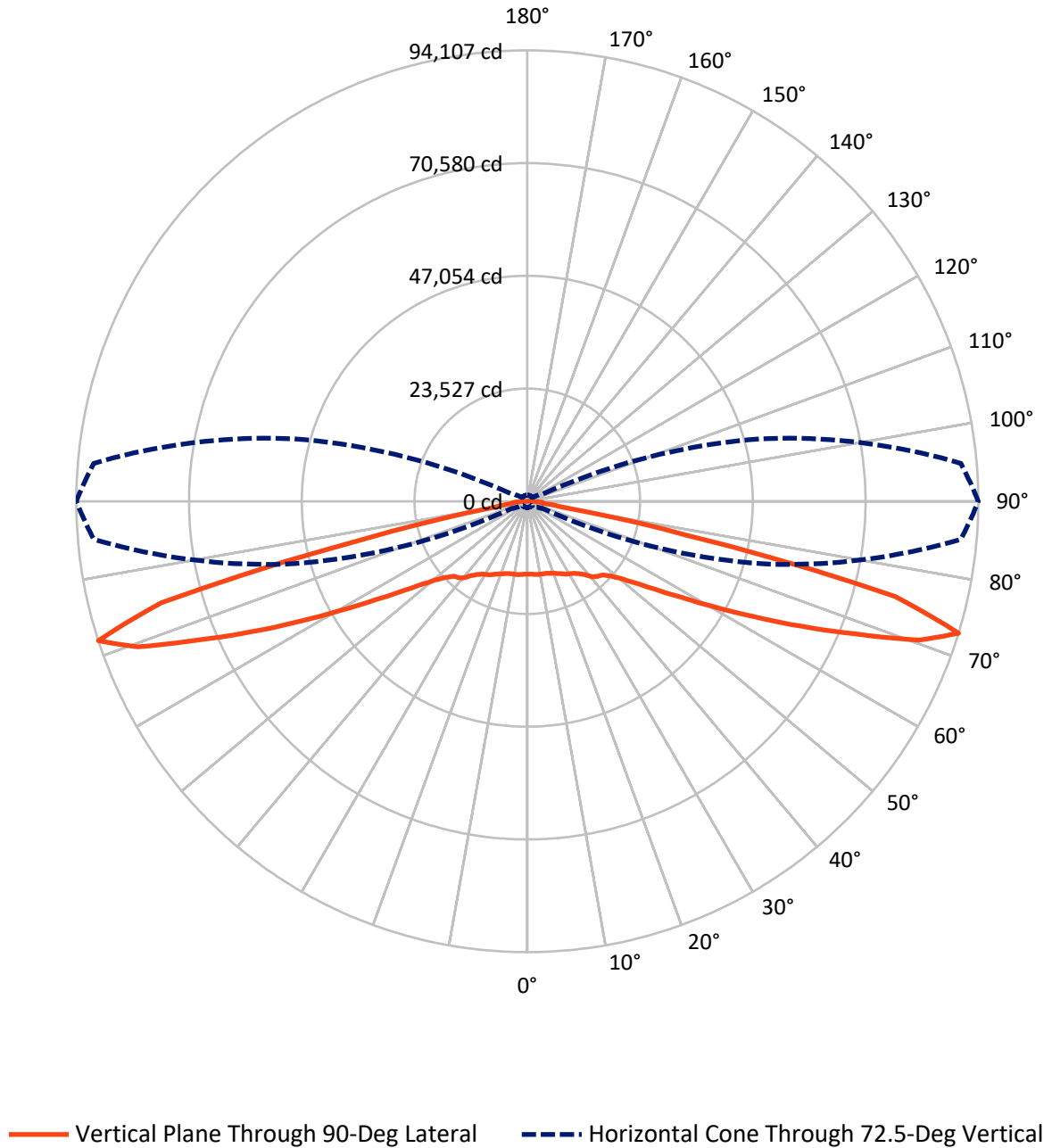
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 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	40701.0	0.0	40701.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	40701.0	0.0	40701.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	81402.0	0.0	81402.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1474.9	1.8
10°-20°	4509.6	5.5
20°-30°	7519.3	9.2
30°-40°	10341.4	12.7
40°-50°	12629.6	15.5
50°-60°	14607.5	17.9
60°-70°	17417.1	21.4
70°-80°	12156.0	14.9
80°-90°	746.6	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°	81402.0	100.0
0°-180°	81402.0	100.0

**Coefficient of Utilization**



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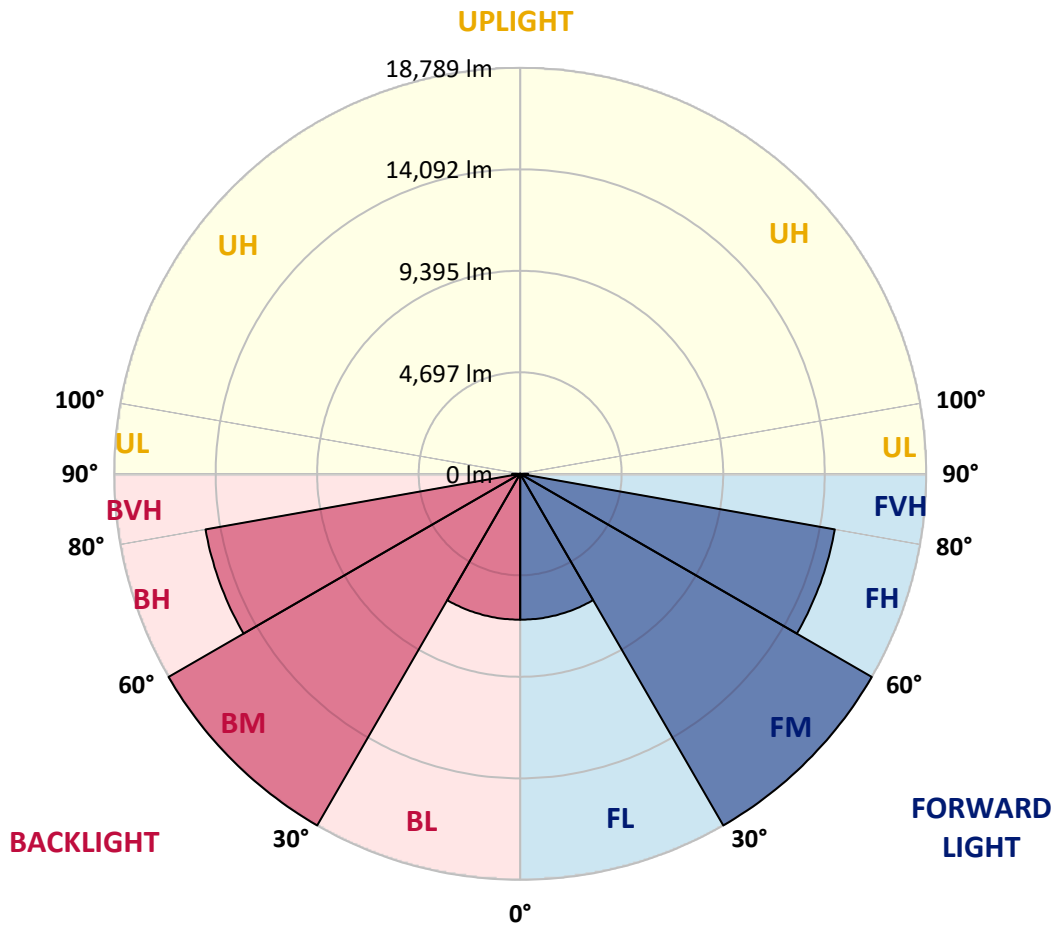
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6751.9	8.3			
FM (30°-60°)	18789.3	23.1			
FH (60°-80°)	14786.5	18.2			G5
FVH (80°-90°)	373.3	0.5			G3/500
BL (0°-30°)	6751.9	8.3	B5		
BM (30°-60°)	18789.3	23.1	B5		
BH (60°-80°)	14786.5	18.2	B5		G5
BVH (80°-90°)	373.3	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°	15210.8	15210.8	15210.8	15210.8	15210.8	15210.8	15210.8	15210.8	15210.8	15210.8
2.5°	15223.8	15241.1	15241.1	15228.1	15258.4	15232.5	15232.5	15219.5	15232.5	15219.5
5°	15301.7	15323.3	15332.0	15327.6	15366.6	15344.9	15344.9	15327.6	15332.0	15319.0
7.5°	15448.8	15479.0	15496.4	15518.0	15574.2	15548.3	15531.0	15479.0	15457.4	15422.8
10°	15496.4	15531.0	15587.2	15699.7	15829.5	15833.8	15781.9	15652.1	15552.6	15474.7
12.5°	15349.3	15396.8	15513.7	15742.9	16032.8	16149.6	16067.4	15851.1	15656.4	15518.0
15°	15163.2	15215.1	15392.5	15738.6	16166.9	16439.5	16430.8	16145.3	15833.8	15617.5
17.5°	14873.4	14925.3	15180.5	15665.1	16270.7	16720.7	16841.8	16547.6	16110.7	15820.8
20°	14349.9	14397.5	14752.2	15431.5	16305.3	17019.2	17335.0	17075.4	16530.3	16136.6
22.5°	13670.7	13744.3	14159.6	15029.1	16223.1	17330.6	17897.4	17720.0	17019.2	16474.1
25°	12943.9	13021.8	13506.3	14535.9	16011.2	17555.6	18563.6	18451.1	17572.9	16893.7
27.5°	12316.6	12398.8	12926.6	14047.1	15682.4	17642.1	19221.2	19277.4	18243.5	17356.6
30°	11823.4	11901.3	12463.7	13653.4	15258.4	17555.6	19796.6	20185.9	18927.0	17758.9
32.5°	11282.7	11382.2	11974.8	13173.2	14756.6	17348.0	20298.4	21168.0	19718.7	18191.6
35°	10599.1	10690.0	11312.9	12515.6	14099.0	17014.8	20718.0	22258.2	20852.2	18849.1
37.5°	9768.5	9855.0	10473.7	11693.6	13445.7	16547.6	21038.2	23486.8	22201.9	19796.6
40°	8933.5	9015.7	9595.5	10776.5	12662.7	15950.6	21150.7	24689.5	23750.7	21098.7
42.5°	8167.8	8241.4	8773.5	9872.3	11784.5	15189.2	21003.6	25736.4	25139.4	22007.2
45°	7462.6	7527.5	7999.1	9024.4	10871.7	14263.4	20562.3	26861.2	26792.0	22656.2
47.5°	6658.0	6722.9	7211.7	8202.4	9958.8	13177.5	19813.9	27968.7	29089.2	24127.1
50°	5675.9	5732.2	6234.0	7255.0	9011.4	12022.4	18775.6	28838.3	31987.7	26355.0
52.5°	4512.2	4572.8	5061.6	6082.6	7886.6	10780.8	17408.5	29405.0	35336.2	29608.3
55°	3357.1	3400.4	3824.3	4741.5	6493.6	9366.2	15695.4	29565.1	39134.6	34055.6
57.5°	2435.6	2461.6	2734.1	3417.7	4923.2	7596.8	13614.5	29149.8	43655.4	39757.5
60°	1972.7	1981.4	2063.6	2366.4	3422.0	5598.1	11101.0	27722.1	48561.3	47107.7
62.5°	1791.0	1791.0	1812.7	1894.9	2314.5	3694.6	8059.7	24763.0	53821.9	56396.0
65°	1665.6	1665.6	1674.2	1713.2	1825.6	2353.4	5087.6	19943.7	58256.2	67276.3
67.5°	1553.1	1557.4	1553.1	1566.1	1631.0	1739.1	2950.4	13774.5	60644.3	78550.3
70°	1436.3	1444.9	1423.3	1423.3	1475.2	1479.6	1847.3	7553.5	58662.9	87998.7
72.5°	1297.9	1310.8	1276.2	1267.6	1306.5	1289.2	1388.7	3625.3	50365.3	90819.3
75°	1176.7	1194.0	1116.2	1094.5	1094.5	1081.5	1129.1	1860.3	32688.6	74085.7
77.5°	1068.6	1103.2	977.7	908.5	891.2	852.3	921.5	1137.8	14298.0	34782.4
80°	882.5	930.1	804.7	722.5	692.2	648.9	726.8	796.0	4252.6	8077.0
82.5°	657.6	679.2	571.1	514.8	488.9	458.6	545.1	553.8	1384.4	2859.6
85°	419.6	428.3	350.4	302.8	289.9	276.9	346.1	302.8	527.8	2102.5
87.5°	147.1	168.7	134.1	121.1	129.8	108.2	160.1	90.8	147.1	1483.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

15210.8  
15219.5  
15319.0  
15422.8  
15461.7  
15496.4  
15582.9  
15773.2  
16063.1  
16374.6  
16755.3  
17209.5  
17547.0  
17923.3  
18550.6  
19398.6  
20674.8  
21462.1  
21920.7  
23279.1  
25290.8  
28297.5  
32416.0  
37693.9  
44507.7  
52913.4  
62872.3  
73795.9  
86748.4  
94107.2  
79242.5  
34060.0  
7735.2  
3231.7  
3054.3  
1838.6  
0.0

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