

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: P951803

Luminaire Tested: **GALN-SB5D-835-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

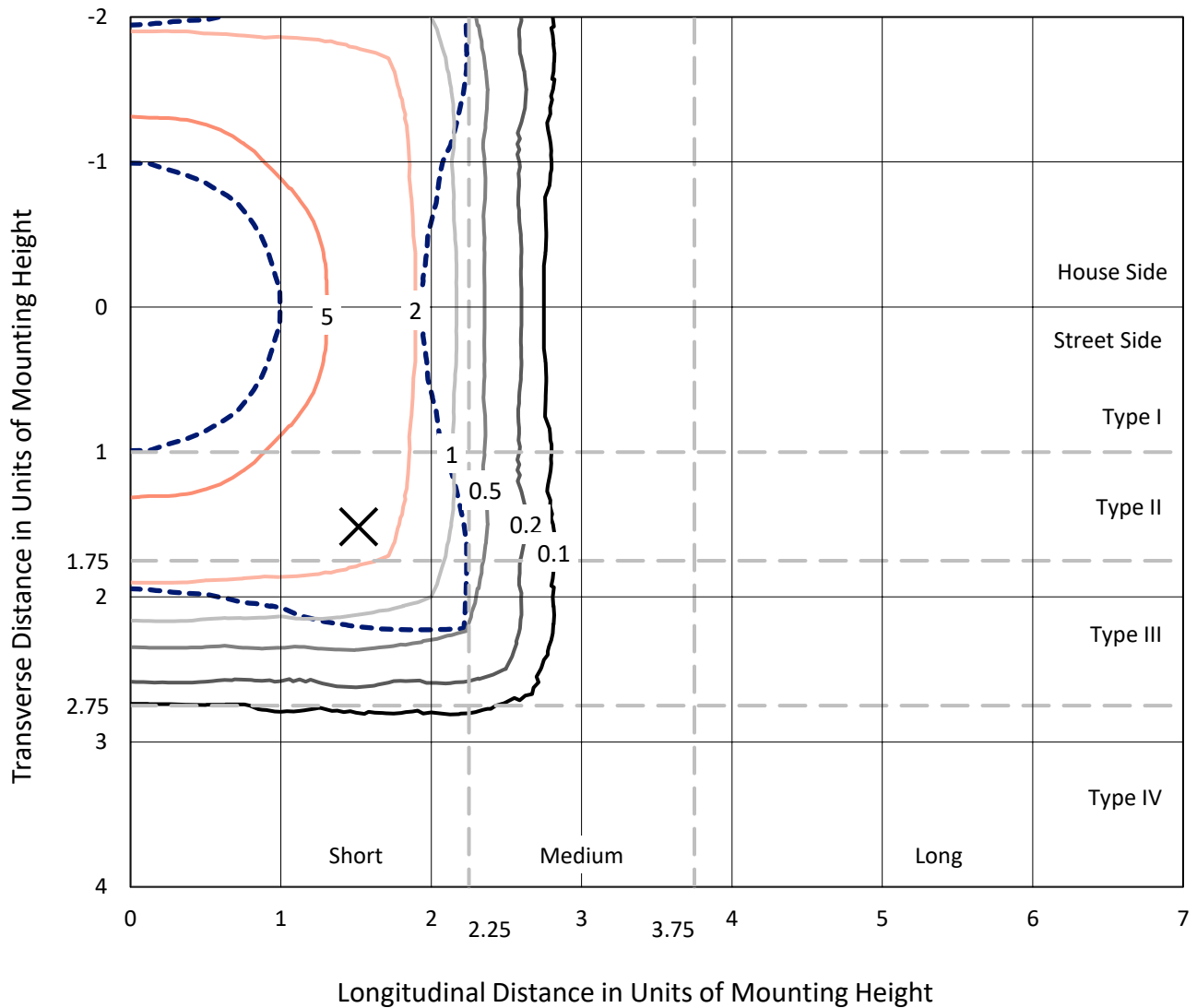
Lumens per Lamp: N/A  
Luminaire Lumens: 49962 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

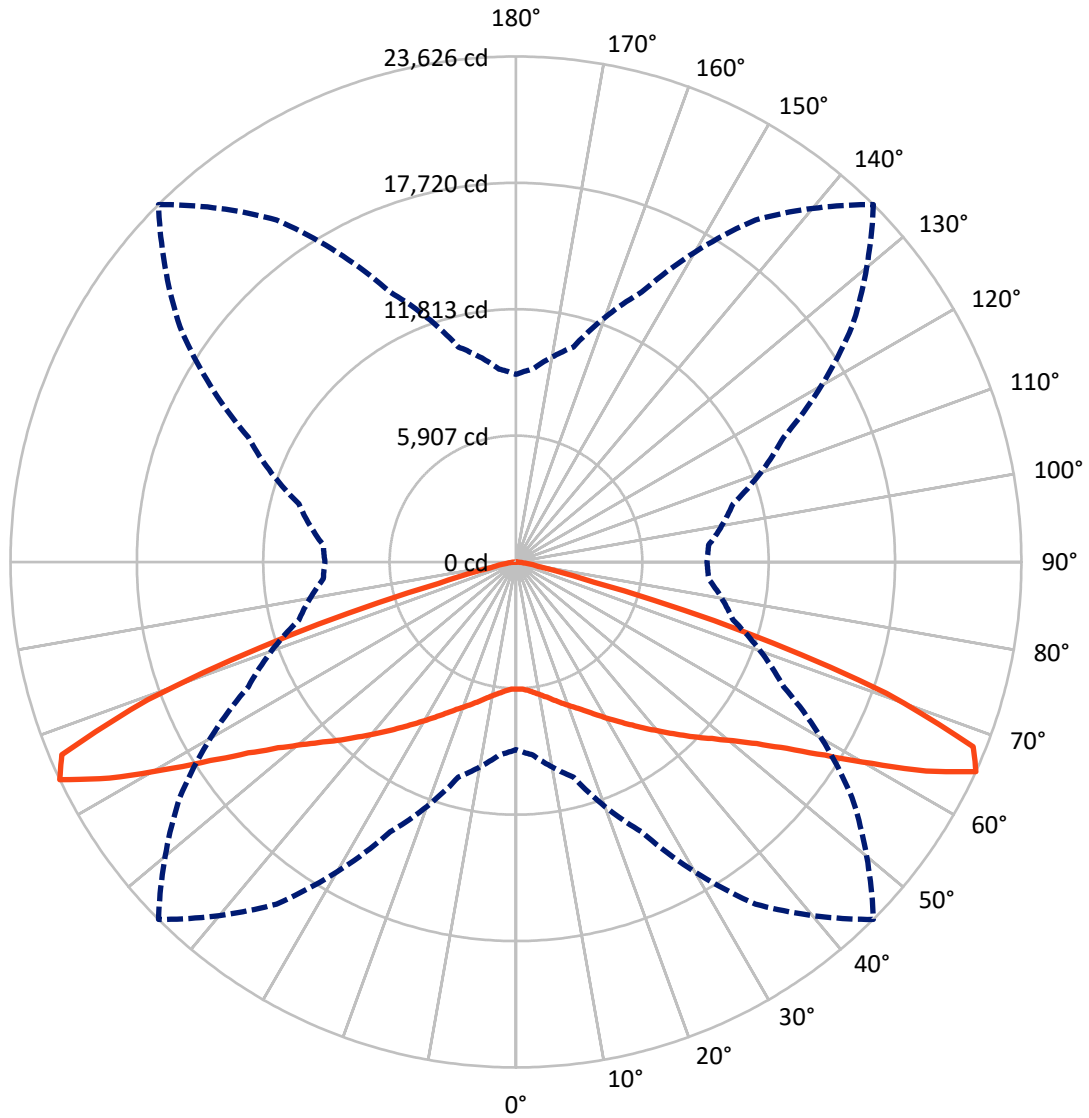
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24981.0	0.0	24981.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24981.0	0.0	24981.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49962.0	0.0	49962.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.8	1.2
10°-20°	1914.8	3.8
20°-30°	3615.4	7.2
30°-40°	5920.1	11.8
40°-50°	9179.1	18.4
50°-60°	13559.4	27.1
60°-70°	12907.3	25.8
70°-80°	2082.8	4.2
80°-90°	196.3	0.4
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°	49962.0	100.0
0°-180°	49962.0	100.0



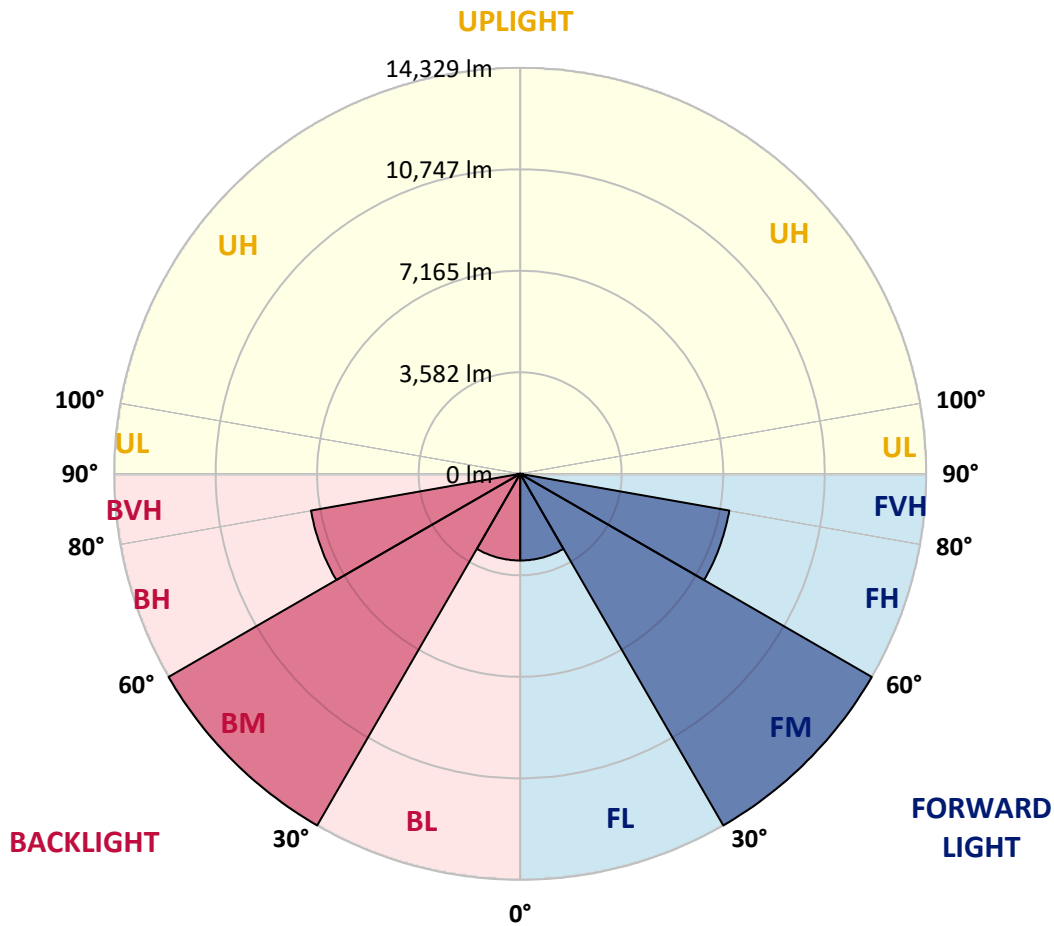
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3058.5	6.1			
FM	(30°-60°)	14329.3	28.7			
FH	(60°-80°)	7495.1	15.0			G3/7500
FVH	(80°-90°)	98.2	0.2			G1/100
BL	(0°-30°)	3058.5	6.1	B4/5000		
BM	(30°-60°)	14329.3	28.7	B5		
BH	(60°-80°)	7495.1	15.0	B5		G3/7500
BVH	(80°-90°)	98.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0
2.5°	5986.1	5966.0	5981.1	5968.5	5958.5	5948.5	5953.5	5971.0	5978.6	5981.1
5°	6066.3	6048.8	6056.3	6056.3	6038.7	6033.7	6036.2	6048.8	6063.8	6063.8
7.5°	6196.7	6179.1	6196.7	6186.6	6171.6	6166.6	6164.1	6174.1	6196.7	6196.7
10°	6354.6	6334.5	6344.5	6339.5	6322.0	6314.5	6312.0	6327.0	6347.1	6344.5
12.5°	6527.5	6505.0	6517.5	6502.5	6497.5	6489.9	6489.9	6487.4	6500.0	6489.9
15°	6720.6	6705.5	6710.5	6700.5	6708.0	6703.0	6683.0	6672.9	6677.9	6662.9
17.5°	6948.7	6913.6	6931.1	6926.1	6926.1	6936.1	6903.6	6891.0	6901.0	6886.0
20°	7211.9	7176.8	7184.3	7174.3	7161.7	7171.8	7131.7	7141.7	7149.2	7139.2
22.5°	7500.2	7455.0	7452.5	7457.5	7430.0	7432.5	7404.9	7430.0	7445.0	7417.4
25°	7795.9	7748.3	7780.9	7768.4	7733.3	7740.8	7720.7	7745.8	7758.3	7723.3
27.5°	8109.3	8076.7	8106.8	8114.3	8071.7	8101.8	8071.7	8094.3	8106.8	8054.1
30°	8475.3	8442.7	8470.3	8490.3	8440.2	8487.8	8462.7	8477.8	8480.3	8417.6
32.5°	8873.8	8823.7	8893.9	8903.9	8848.8	8906.4	8873.8	8893.9	8906.4	8821.2
35°	9360.2	9297.5	9377.7	9365.2	9317.5	9365.2	9335.1	9365.2	9395.2	9292.5
37.5°	9884.1	9818.9	9904.1	9881.6	9836.4	9869.0	9851.5	9871.5	9919.2	9808.9
40°	10460.6	10380.4	10495.7	10455.6	10413.0	10408.0	10418.0	10430.5	10493.2	10370.4
42.5°	11077.3	10992.0	11165.0	11102.3	11042.2	11002.1	11034.7	11059.7	11119.9	10982.0
45°	11781.7	11683.9	11909.5	11834.3	11739.0	11656.3	11709.0	11746.6	11834.3	11668.9
47.5°	12558.7	12448.5	12689.1	12666.5	12511.1	12330.6	12451.0	12558.7	12623.9	12423.4
50°	13318.3	13233.1	13548.9	13576.5	13386.0	13132.8	13300.7	13463.7	13481.2	13218.0
52.5°	14030.2	13945.0	14403.7	14576.7	14406.2	14105.4	14283.4	14448.8	14316.0	13975.1
55°	14599.2	14529.0	15113.1	15559.3	15617.0	15368.8	15474.1	15469.1	15032.9	14509.0
57.5°	14737.1	14727.1	15464.1	16409.1	17010.7	17040.8	16832.7	16301.3	15361.3	14656.9
60°	14110.4	14173.1	15185.8	16852.8	18457.1	19123.9	18224.0	16707.4	14987.8	14010.1
62.5°	12235.4	12400.8	13621.6	16311.3	19625.2	21520.3	19339.5	16090.7	13453.7	12177.7
65°	8768.6	9056.8	10405.5	13919.9	19520.0	23626.0	19179.0	13807.1	10505.7	9034.3
67.5°	3978.2	4271.5	5417.1	9530.6	16968.1	23054.5	16928.0	9630.9	5687.8	4286.5
70°	1441.4	1491.5	1860.0	3815.3	10844.1	18369.4	11307.9	3842.8	1977.8	1589.3
72.5°	872.3	879.9	957.6	1366.2	3767.6	11152.5	3928.1	1411.3	977.6	867.3
75°	554.0	549.0	681.8	834.7	1336.1	3762.6	1401.3	834.7	679.3	619.2
77.5°	398.6	411.1	488.8	624.2	842.3	1275.9	827.2	596.6	488.8	401.1
80°	298.3	305.8	356.0	486.3	591.6	794.6	526.4	441.2	368.5	250.7
82.5°	215.6	215.6	233.1	353.4	361.0	428.7	285.8	310.8	243.2	178.0
85°	127.8	125.3	145.4	210.6	188.0	157.9	130.4	190.5	152.9	110.3
87.5°	45.1	47.6	45.1	60.2	50.1	42.6	40.1	52.6	42.6	37.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5946.0
5981.1
6063.8
6189.1
6339.5
6495.0
6665.4
6898.5
7161.7
7445.0
7763.4
8094.3
8455.2
8878.9
9355.1
9876.5
10410.5
11054.7
11754.1
12491.1
13250.6
13985.1
14526.5
14611.8
13894.8
12102.5
8926.5
4223.9
1569.2
882.4
624.2
408.6
258.2
178.0
107.8
35.1
0.0

OF REPORT)