

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: P943410

Luminaire Tested: **GALN-SB7D-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

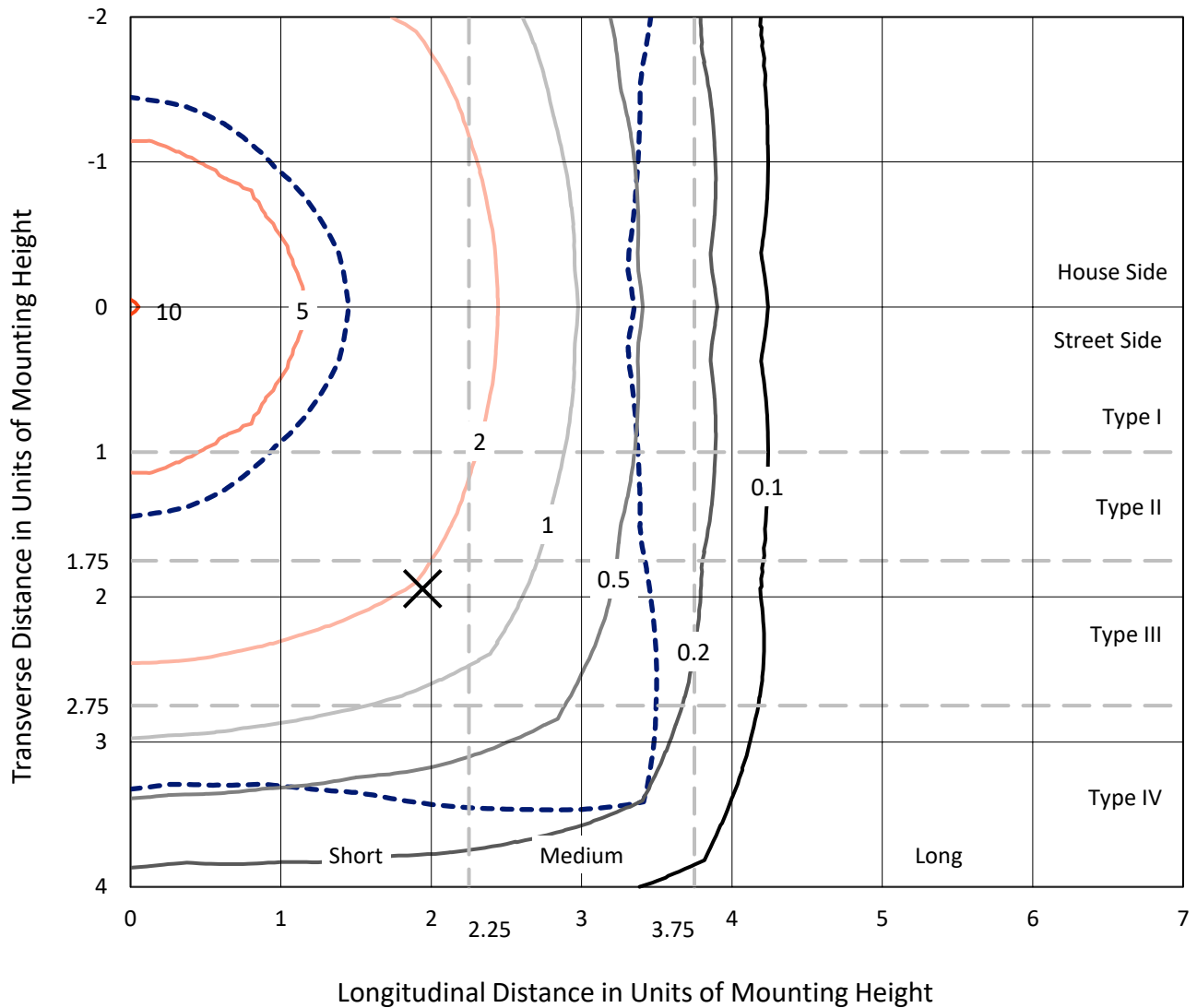
Lumens per Lamp: N/A  
Luminaire Lumens: 70019 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

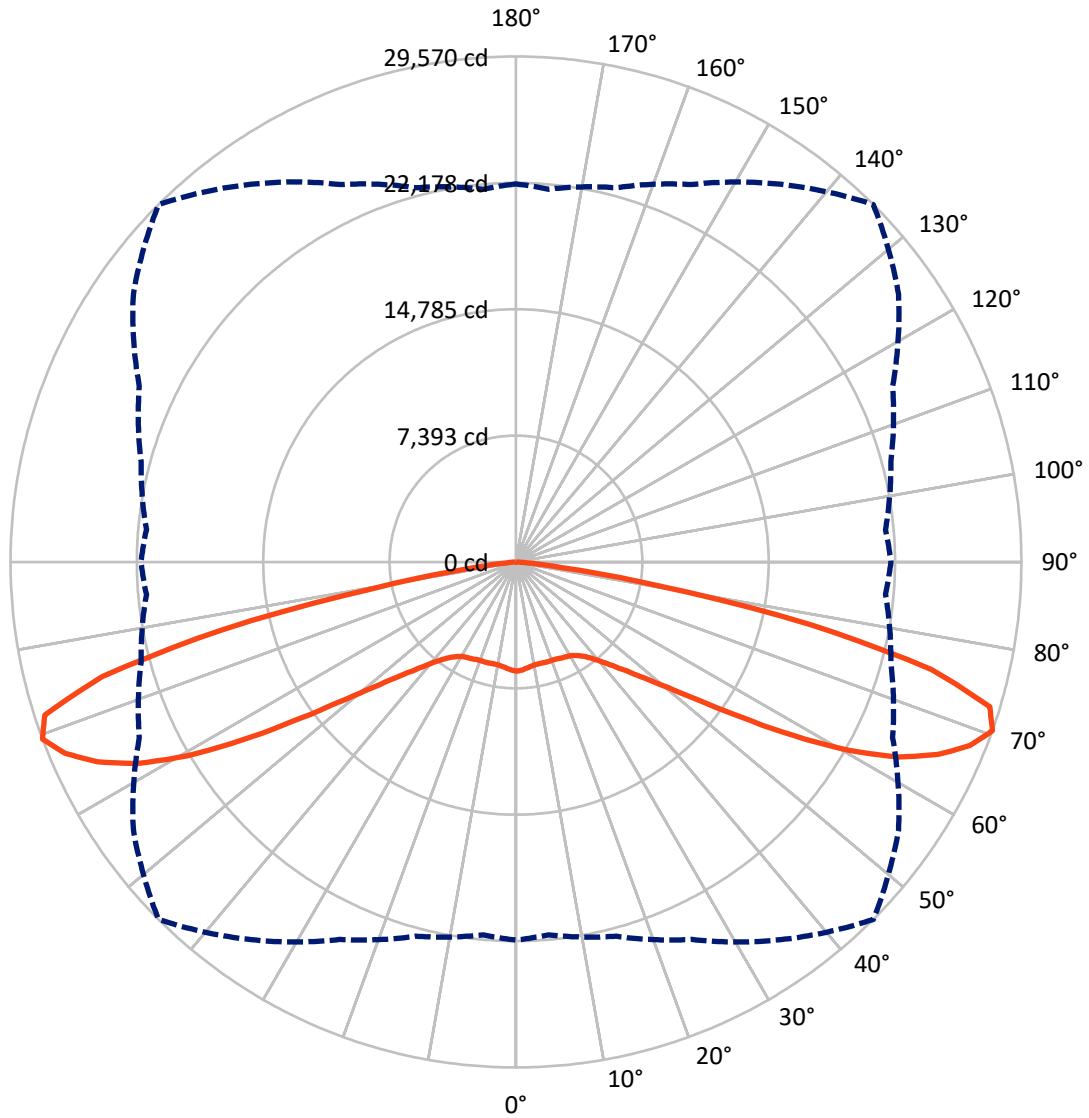
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	35009.5	0.0	35009.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	35009.5	0.0	35009.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	70019.0	0.0	70019.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.2	0.8
10°-20°	1744.6	2.5
20°-30°	2903.2	4.1
30°-40°	4390.6	6.3
40°-50°	7296.1	10.4
50°-60°	13767.5	19.7
60°-70°	23246.9	33.2
70°-80°	15275.6	21.8
80°-90°	800.3	1.1
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°	70019.0	100.0
0°-180°	70019.0	100.0

**Coefficient of Utilization**

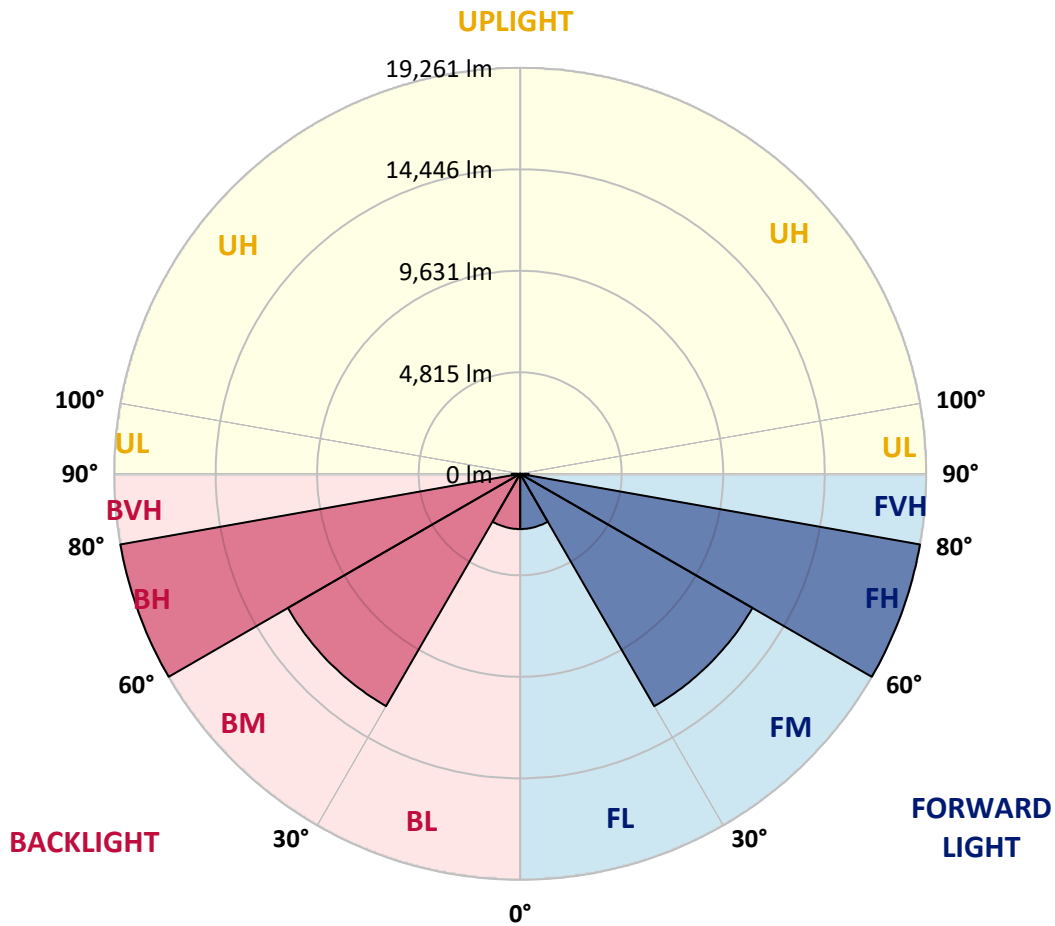


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2621.0	3.7			
FM (30°-60°)	12727.1	18.2			
FH (60°-80°)	19261.3	27.5			G5
FVH (80°-90°)	400.1	0.6			G3/500
BL (0°-30°)	2621.0	3.7	B4/5000		
BM (30°-60°)	12727.1	18.2	B5		
BH (60°-80°)	19261.3	27.5	B5		G5
BVH (80°-90°)	400.1	0.6			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 V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1
2.5°	6347.1	6365.3	6358.0	6343.5	6343.5	6332.6	6343.5	6350.7	6361.7	6368.9
5°	6263.4	6278.0	6274.3	6263.4	6267.0	6256.1	6263.4	6274.3	6281.6	6285.2
7.5°	6190.6	6205.2	6197.9	6179.7	6179.7	6168.8	6172.4	6183.3	6194.3	6197.9
10°	6172.4	6187.0	6165.1	6136.0	6125.1	6110.5	6114.2	6125.1	6146.9	6157.9
12.5°	6179.7	6190.6	6168.8	6125.1	6114.2	6099.6	6099.6	6110.5	6139.7	6154.2
15°	6201.5	6212.5	6179.7	6132.4	6121.5	6110.5	6106.9	6121.5	6154.2	6179.7
17.5°	6241.6	6252.5	6201.5	6136.0	6121.5	6125.1	6121.5	6132.4	6183.3	6230.6
20°	6278.0	6285.2	6216.1	6136.0	6121.5	6125.1	6121.5	6143.3	6208.8	6274.3
22.5°	6288.9	6296.2	6230.6	6161.5	6150.6	6154.2	6150.6	6172.4	6234.3	6299.8
25°	6292.5	6303.4	6252.5	6197.9	6216.1	6223.4	6216.1	6219.7	6267.0	6325.3
27.5°	6347.1	6361.7	6314.4	6267.0	6278.0	6274.3	6285.2	6296.2	6332.6	6390.8
30°	6459.9	6470.8	6430.8	6383.5	6376.2	6350.7	6383.5	6419.9	6459.9	6510.9
32.5°	6645.5	6667.4	6616.4	6565.5	6532.7	6518.2	6543.6	6605.5	6660.1	6714.7
35°	6954.9	6969.4	6922.1	6827.5	6769.3	6769.3	6791.1	6871.2	6958.5	7027.7
37.5°	7391.6	7409.8	7326.1	7213.3	7125.9	7125.9	7155.1	7238.8	7369.8	7468.0
40°	7923.0	7948.4	7842.9	7726.4	7642.7	7628.2	7664.6	7759.2	7882.9	8006.7
42.5°	8563.5	8592.6	8454.3	8352.4	8286.9	8286.9	8305.1	8392.5	8505.3	8658.1
45°	9382.4	9433.3	9244.1	9142.2	9080.3	9094.9	9105.8	9182.2	9284.1	9458.8
47.5°	10357.7	10408.7	10208.5	10103.0	10092.0	10161.2	10117.5	10172.1	10226.7	10426.9
50°	11464.1	11551.4	11413.2	11405.9	11427.7	11555.1	11453.2	11482.3	11420.4	11547.8
52.5°	12818.0	12945.3	12919.9	12963.5	13207.4	13469.4	13236.5	13134.6	12901.7	12941.7
55°	14459.3	14652.2	14688.6	14950.6	15503.8	16038.8	15543.9	15132.6	14637.7	14546.7
57.5°	16326.3	16479.2	16653.9	17188.9	18222.5	19172.3	18222.5	17312.6	16533.8	16348.2
60°	18335.3	18524.5	18691.9	19481.7	21017.5	22353.2	20988.4	19543.6	18513.6	18262.5
62.5°	20493.4	20737.3	20853.7	21730.8	23521.4	25115.5	23546.9	21796.4	20653.6	20384.3
65°	22564.3	22764.4	22895.4	23830.8	25541.3	27139.0	25657.8	23932.7	22757.2	22404.1
67.5°	23528.7	23637.9	23958.2	25017.2	26822.4	28645.7	27128.1	25130.0	23816.2	23197.5
70°	22116.6	21894.6	22666.2	24362.1	26975.2	29570.1	27324.6	24311.2	22702.6	21698.1
72.5°	17090.6	16708.5	18047.8	20948.4	25228.3	28980.5	25403.0	21112.1	18881.2	16843.1
75°	9298.7	8865.6	10714.4	14382.9	20118.6	25119.1	20580.8	14794.2	11929.9	9229.5
77.5°	2624.0	2460.2	3952.4	6958.5	12101.0	17636.5	12566.8	7111.4	4687.5	2780.5
80°	804.3	778.8	1055.4	2096.3	5138.8	8447.0	4938.7	2121.8	1342.9	848.0
82.5°	476.8	436.7	524.1	764.3	1310.2	2653.1	1273.8	797.0	640.5	429.4
85°	273.0	254.8	309.3	371.2	440.4	564.1	367.6	378.5	342.1	229.3
87.5°	112.8	101.9	120.1	116.5	101.9	131.0	98.3	116.5	138.3	91.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6387.1
6365.3
6285.2
6197.9
6157.9
6157.9
6183.3
6230.6
6278.0
6299.8
6321.6
6376.2
6500.0
6692.9
7002.2
7431.6
7966.6
8647.2
9451.5
10368.6
11471.4
12807.0
14404.7
16217.2
18044.1
20165.9
22229.4
23204.8
21938.3
17349.0
9830.0
3089.8
895.3
465.8
240.2
83.7
0.0

OF REPORT)