

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: P956128

Luminaire Tested: **GALN-SB8D-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

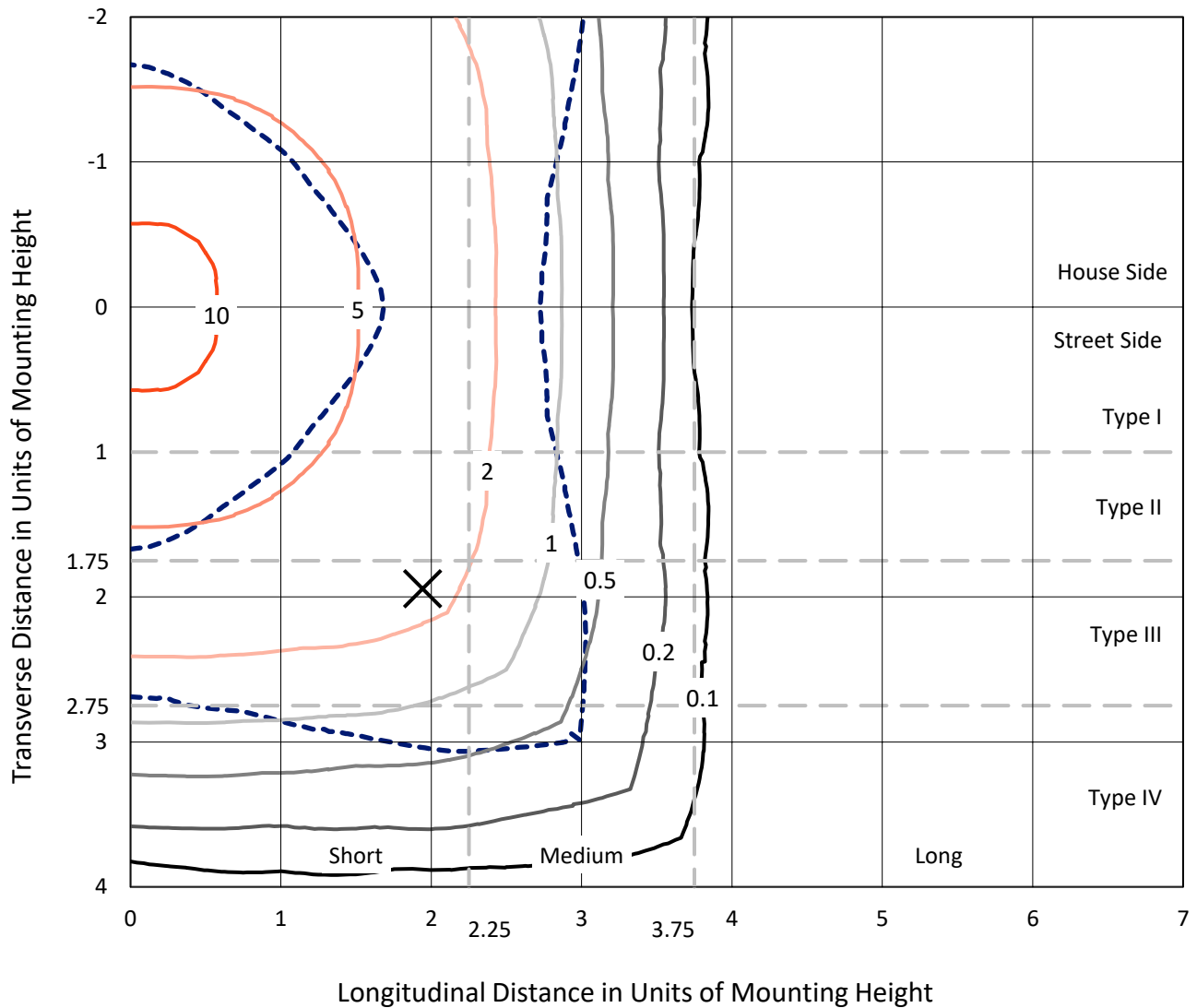
Lumens per Lamp: N/A  
Luminaire Lumens: 82427 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

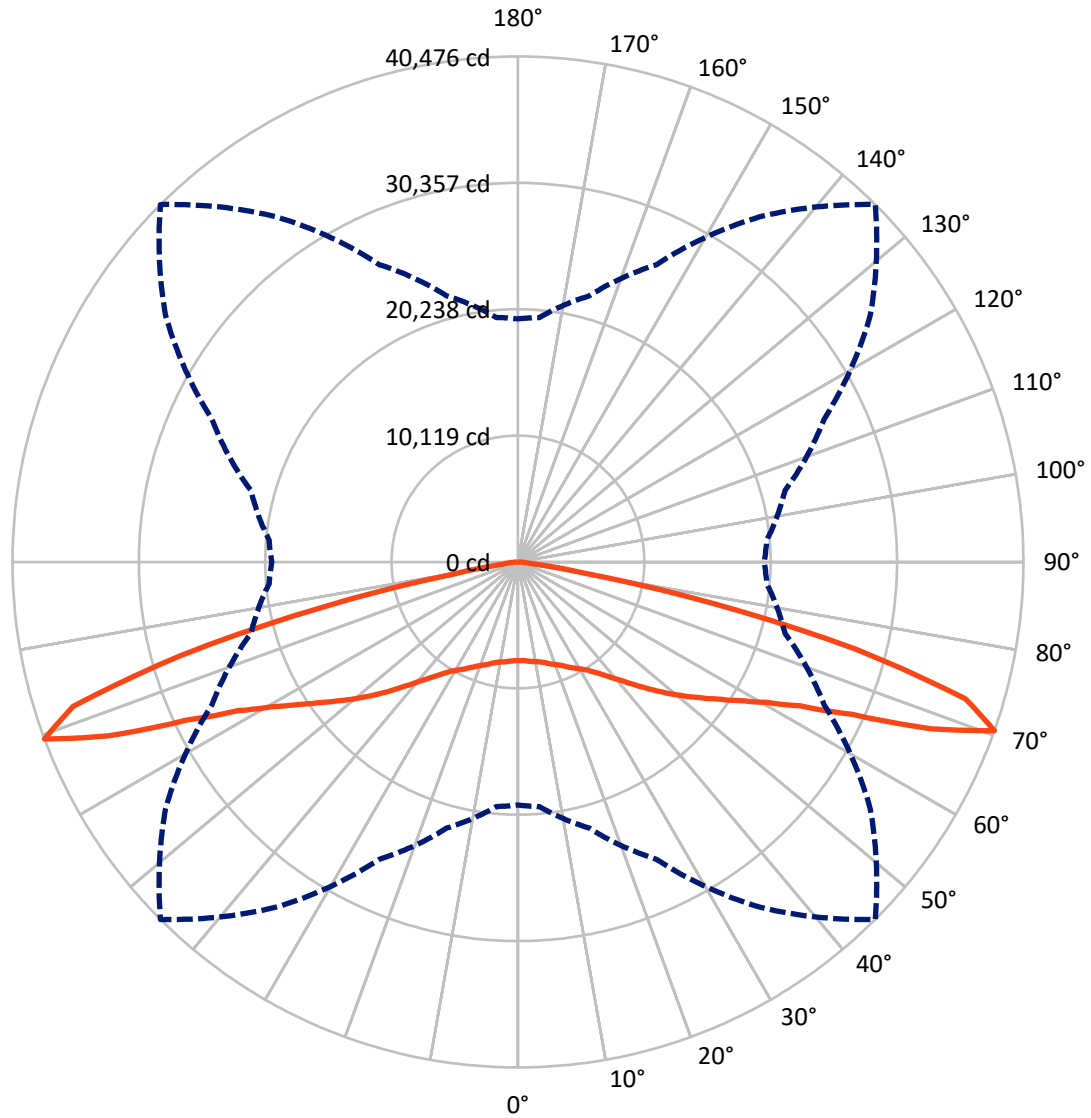
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	41213.5	0.0	41213.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	41213.5	0.0	41213.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	82427.0	0.0	82427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	767.1	0.9
10°-20°	2378.6	2.9
20°-30°	4250.8	5.2
30°-40°	6890.5	8.4
40°-50°	11223.5	13.6
50°-60°	17112.0	20.8
60°-70°	25457.2	30.9
70°-80°	13875.0	16.8
80°-90°	472.5	0.6
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°	82427.0	100.0
0°-180°	82427.0	100.0

**Coefficient of Utilization**



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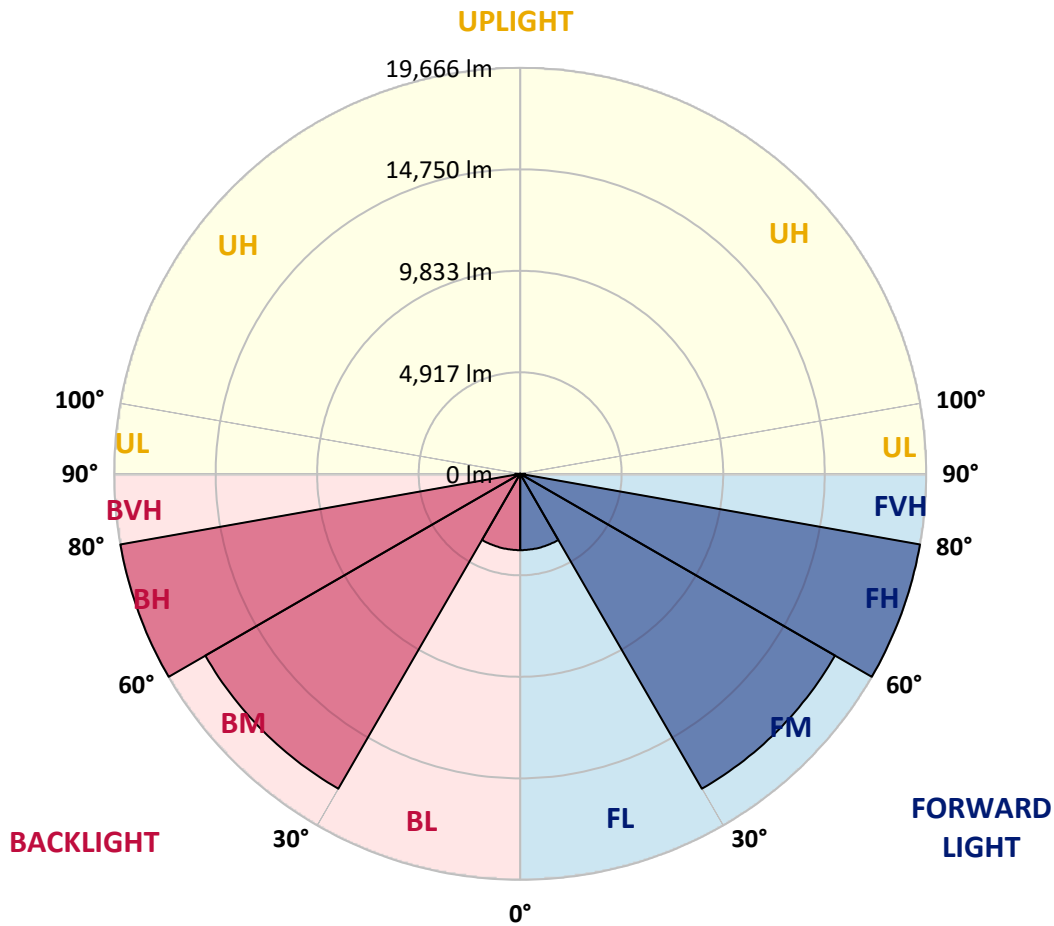
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3698.2	4.5			
FM (30°-60°)	17613.0	21.4			
FH (60°-80°)	19666.1	23.9			G5
FVH (80°-90°)	236.2	0.3			G3/500
BL (0°-30°)	3698.2	4.5	B4/5000		
BM (30°-60°)	17613.0	21.4	B5		
BH (60°-80°)	19666.1	23.9	B5		G5
BVH (80°-90°)	236.2	0.3			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°	7895.7	7895.7	7895.7	7895.7	7895.7	7895.7	7895.7	7895.7	7895.7	7895.7
2.5°	7932.9	7941.2	7924.6	7916.3	7908.1	7895.7	7899.8	7920.5	7937.0	7932.9
5°	7999.1	8007.4	7995.0	7990.8	7974.3	7970.1	7970.1	7990.8	8003.2	7995.0
7.5°	8073.6	8086.0	8065.3	8061.2	8052.9	8044.6	8040.5	8061.2	8073.6	8073.6
10°	8143.9	8156.4	8139.8	8127.4	8119.1	8119.1	8110.8	8127.4	8148.1	8143.9
12.5°	8218.4	8226.7	8210.2	8201.9	8201.9	8214.3	8201.9	8210.2	8226.7	8218.4
15°	8309.5	8313.6	8309.5	8321.9	8342.6	8384.0	8346.7	8338.4	8346.7	8326.0
17.5°	8433.6	8441.9	8458.4	8487.4	8516.4	8590.9	8524.7	8504.0	8504.0	8462.6
20°	8586.7	8599.1	8624.0	8673.6	8710.9	8781.2	8715.0	8686.0	8673.6	8619.8
22.5°	8748.1	8768.8	8806.1	8872.3	8938.5	9004.7	8938.5	8888.8	8851.6	8781.2
25°	8934.3	8959.2	9017.1	9124.7	9215.7	9310.9	9232.3	9133.0	9058.5	8959.2
27.5°	9199.2	9228.1	9298.5	9430.9	9546.8	9629.6	9555.1	9426.8	9323.3	9203.3
30°	9571.6	9600.6	9683.3	9824.0	9902.7	9956.5	9906.8	9807.5	9683.3	9546.8
32.5°	10051.6	10088.9	10179.9	10312.4	10328.9	10337.2	10320.6	10271.0	10179.9	10014.4
35°	10660.0	10701.3	10804.8	10912.4	10895.8	10912.4	10887.6	10871.0	10804.8	10614.4
37.5°	11404.8	11454.5	11562.1	11644.8	11603.5	11582.8	11586.9	11591.1	11553.8	11342.8
40°	12269.7	12335.9	12414.5	12501.5	12431.1	12369.0	12410.4	12443.5	12410.4	12195.2
42.5°	13159.4	13254.6	13337.4	13461.5	13403.6	13324.9	13382.9	13420.1	13349.8	13118.0
45°	14148.4	14239.5	14347.1	14533.3	14491.9	14409.2	14491.9	14500.2	14380.2	14107.1
47.5°	15170.6	15265.8	15427.1	15675.4	15658.9	15567.8	15675.4	15617.5	15464.4	15137.5
50°	16138.9	16271.3	16519.6	16867.2	16900.3	16788.6	16933.4	16821.7	16565.1	16155.5
52.5°	17049.3	17190.0	17583.1	18054.9	18174.9	18030.1	18224.6	18030.1	17645.2	17119.7
55°	18005.2	18162.5	18630.1	19246.7	19486.7	19379.1	19561.2	19267.4	18721.1	18083.9
57.5°	19130.8	19226.0	19784.7	20517.1	20922.7	20947.5	21030.2	20533.7	19871.6	19147.4
60°	20351.6	20484.0	21092.3	21969.6	22611.0	22817.9	22731.0	21994.4	21224.7	20393.0
62.5°	21915.8	22060.7	22789.0	23840.1	24853.9	25367.1	25027.7	23960.1	23008.3	22011.0
65°	23211.1	23372.5	24688.4	26563.0	28408.6	29439.0	28586.6	26620.9	24907.7	23500.7
67.5°	22271.7	22470.3	24535.3	27978.3	32567.5	35642.2	32724.8	28400.4	25044.3	23136.6
70°	19466.0	19652.2	22060.7	26269.2	33738.6	40475.6	34442.1	27043.0	22139.3	20004.0
72.5°	12923.5	13523.6	15961.0	21009.6	30126.0	37454.7	30423.9	20583.3	14806.4	12894.6
75°	4287.2	4767.2	6430.7	10891.7	20177.8	28011.4	19209.4	9637.8	5094.1	3666.4
77.5°	1080.1	1245.6	1717.3	3116.1	8048.8	15948.6	7246.0	2545.0	1386.3	968.3
80°	525.5	579.3	827.6	1038.7	2015.3	5069.3	1891.1	976.6	653.8	504.9
82.5°	289.7	293.8	467.6	587.6	749.0	1311.8	778.0	571.1	376.6	306.2
85°	177.9	173.8	248.3	314.5	314.5	467.6	372.4	314.5	215.2	190.4
87.5°	70.3	70.3	91.0	99.3	86.9	120.0	95.2	103.5	82.8	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7895.7
7937.0
7999.1
8073.6
8143.9
8214.3
8326.0
8462.6
8619.8
8777.1
8955.0
9199.2
9546.8
10018.5
10614.4
11342.8
12195.2
13134.6
14136.0
15116.8
16147.2
17070.0
17997.0
19048.1
20260.5
21837.2
23269.0
22851.0
19718.4
12476.6
3467.8
864.9
463.5
306.2
198.6
82.8
0.0

OF REPORT)