

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: P955771

Luminaire Tested: **GALN-SB8C-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955771
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-SB8C-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60663 lumens
Efficiency: N/A
Efficacy: 151.7 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

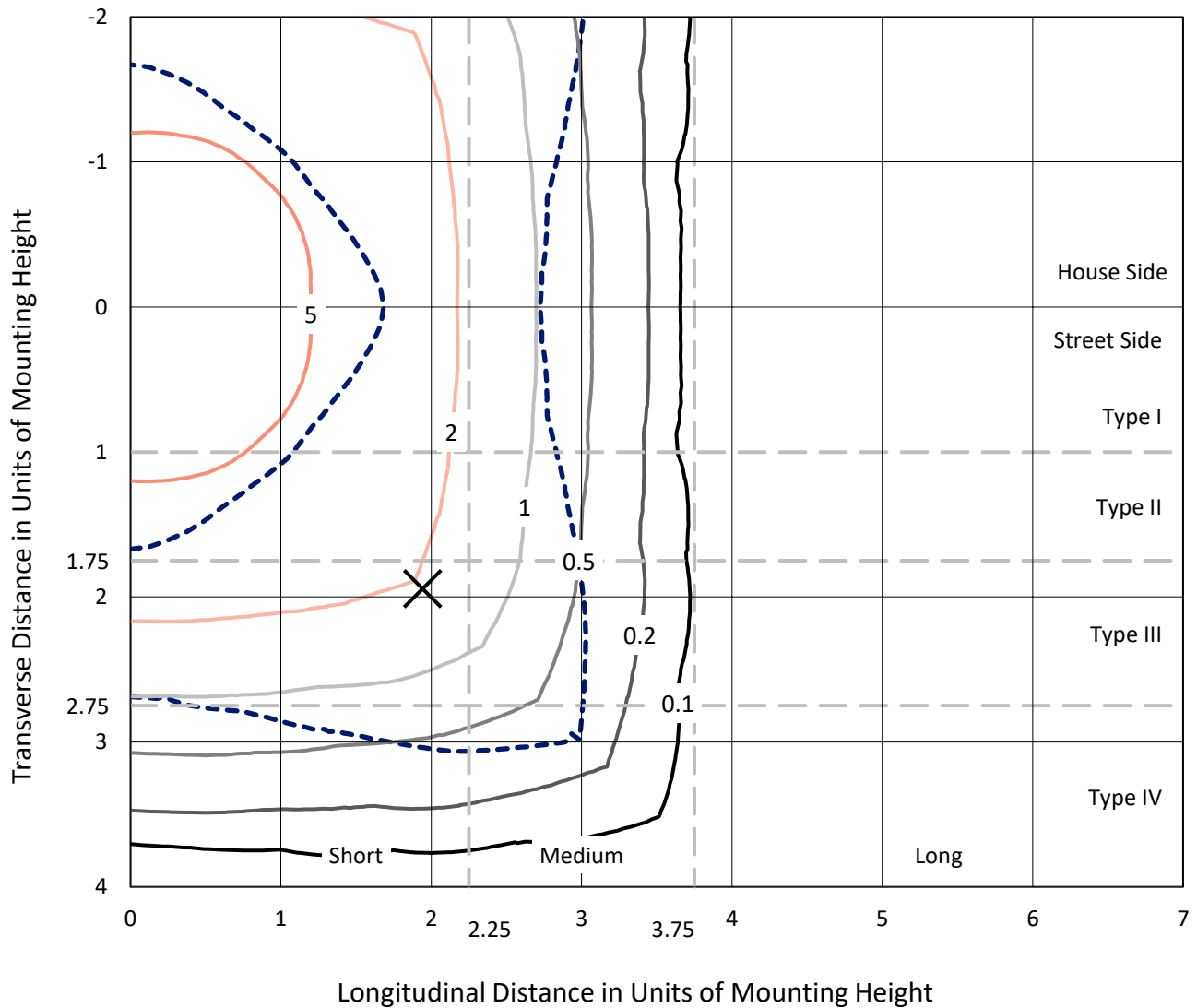
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

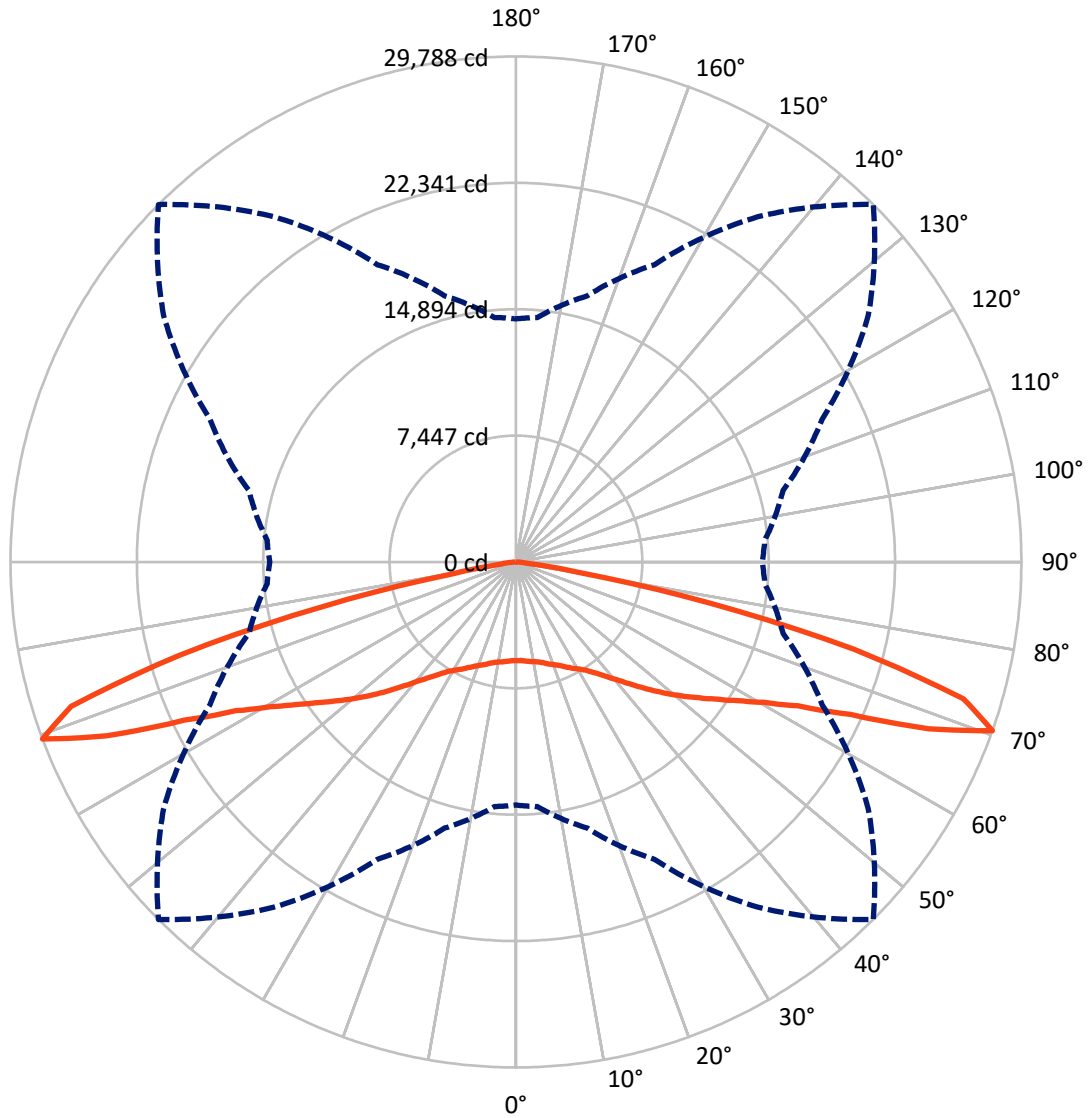
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	30331.5	0.0	30331.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30331.5	0.0	30331.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	60663.0	0.0	60663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.5	0.9
10°-20°	1750.5	2.9
20°-30°	3128.4	5.2
30°-40°	5071.1	8.4
40°-50°	8260.0	13.6
50°-60°	12593.7	20.8
60°-70°	18735.5	30.9
70°-80°	10211.5	16.8
80°-90°	347.7	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°	60663.0	100.0
0°-180°	60663.0	100.0

Coefficient of Utilization



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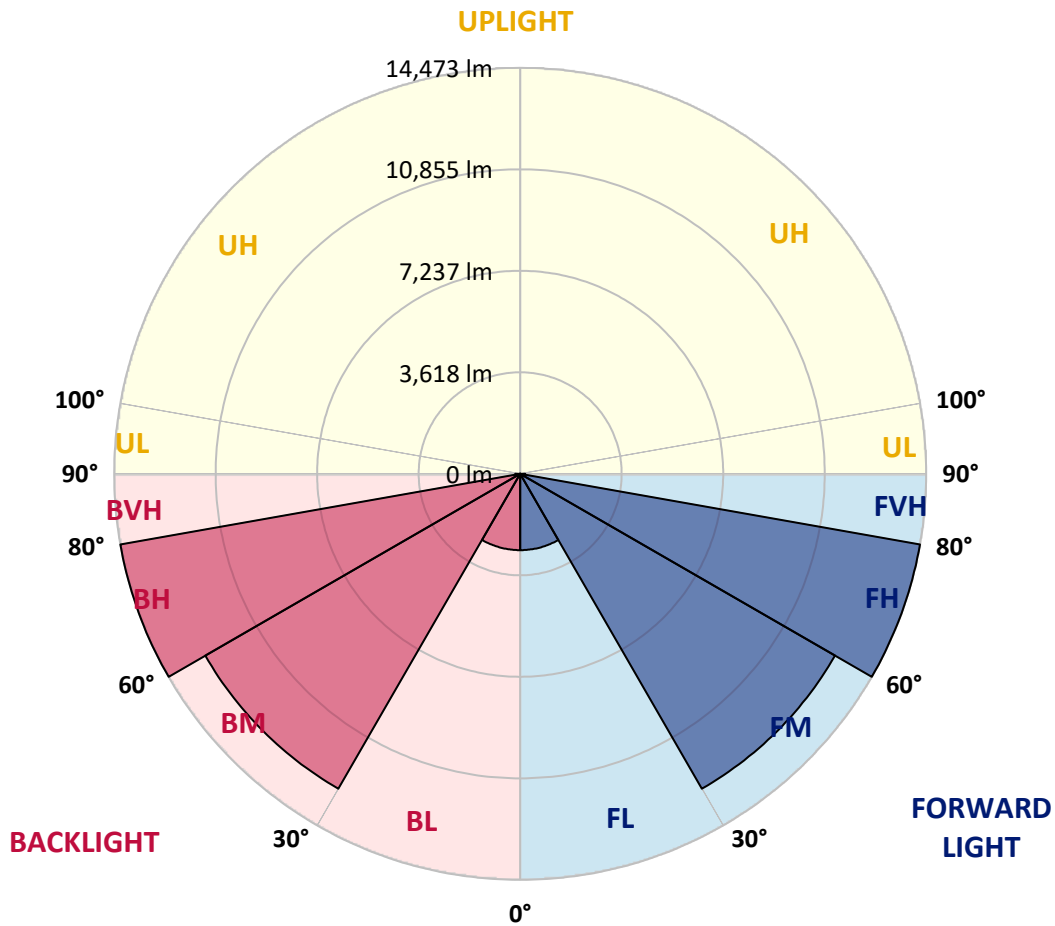
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2721.7	4.5			
FM (30°-60°)	12962.4	21.4			
FH (60°-80°)	14473.5	23.9			G5
FVH (80°-90°)	173.9	0.3			G2/225
BL (0°-30°)	2721.7	4.5	B4/5000		
BM (30°-60°)	12962.4	21.4	B5		
BH (60°-80°)	14473.5	23.9	B5		G5
BVH (80°-90°)	173.9	0.3			G2/225
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°	5810.9	5810.9	5810.9	5810.9	5810.9	5810.9	5810.9	5810.9	5810.9	5810.9
2.5°	5838.3	5844.4	5832.2	5826.1	5820.0	5810.9	5813.9	5829.2	5841.3	5838.3
5°	5887.0	5893.1	5884.0	5880.9	5868.8	5865.7	5865.7	5880.9	5890.1	5884.0
7.5°	5941.8	5951.0	5935.8	5932.7	5926.6	5920.5	5917.5	5932.7	5941.8	5941.8
10°	5993.6	6002.8	5990.6	5981.4	5975.3	5975.3	5969.3	5981.4	5996.7	5993.6
12.5°	6048.4	6054.5	6042.3	6036.3	6036.3	6045.4	6036.3	6042.3	6054.5	6048.4
15°	6115.4	6118.5	6115.4	6124.6	6139.8	6170.3	6142.9	6136.8	6142.9	6127.6
17.5°	6206.8	6212.9	6225.1	6246.4	6267.7	6322.5	6273.8	6258.6	6258.6	6228.1
20°	6319.5	6328.6	6346.9	6383.4	6410.9	6462.6	6413.9	6392.6	6383.4	6343.9
22.5°	6438.3	6453.5	6480.9	6529.6	6578.4	6627.1	6578.4	6541.8	6514.4	6462.6
25°	6575.3	6593.6	6636.2	6715.4	6782.4	6852.5	6794.6	6721.5	6666.7	6593.6
27.5°	6770.2	6791.6	6843.3	6940.8	7026.1	7087.0	7032.1	6937.7	6861.6	6773.3
30°	7044.3	7065.6	7126.6	7230.1	7288.0	7327.6	7291.0	7217.9	7126.6	7026.1
32.5°	7397.6	7425.0	7492.0	7589.5	7601.7	7607.8	7595.6	7559.0	7492.0	7370.2
35°	7845.3	7875.8	7951.9	8031.1	8018.9	8031.1	8012.8	8000.6	7951.9	7811.8
37.5°	8393.5	8430.1	8509.2	8570.1	8539.7	8524.5	8527.5	8530.6	8503.1	8347.8
40°	9030.0	9078.8	9136.6	9200.6	9148.8	9103.1	9133.6	9157.9	9133.6	8975.2
42.5°	9684.8	9754.9	9815.8	9907.1	9864.5	9806.6	9849.3	9876.7	9824.9	9654.4
45°	10412.7	10479.7	10558.9	10695.9	10665.5	10604.6	10665.5	10671.6	10583.2	10382.2
47.5°	11164.9	11235.0	11353.8	11536.5	11524.3	11457.3	11536.5	11493.9	11381.2	11140.6
50°	11877.6	11975.1	12157.8	12413.6	12438.0	12355.7	12462.3	12380.1	12191.3	11889.8
52.5°	12547.6	12651.2	12940.5	13287.7	13376.0	13269.4	13412.6	13269.4	12986.2	12599.4
55°	13251.1	13366.9	13711.0	14164.8	14341.4	14262.3	14396.3	14180.0	13778.0	13309.0
57.5°	14079.5	14149.6	14560.7	15099.8	15398.2	15416.5	15477.4	15112.0	14624.7	14091.7
60°	14978.0	15075.4	15523.1	16168.8	16640.8	16793.1	16729.1	16187.0	15620.6	15008.4
62.5°	16129.2	16235.8	16771.8	17545.3	18291.5	18669.2	18419.4	17633.7	16933.2	16199.2
65°	17082.4	17201.2	18169.7	19549.3	20907.6	21666.0	21038.6	19591.9	18331.1	17295.6
67.5°	16391.1	16537.3	18057.0	20590.9	23968.4	26231.2	24084.1	20901.5	18431.6	17027.6
70°	14326.2	14463.3	16235.8	19333.1	24830.3	29788.4	25348.0	19902.6	16293.6	14722.1
72.5°	9511.2	9952.8	11746.6	15462.2	22171.5	27565.2	22390.8	15148.5	10896.9	9489.9
75°	3155.2	3508.5	4732.8	8015.9	14850.0	20615.3	14137.4	7093.1	3749.1	2698.3
77.5°	794.9	916.7	1263.9	2293.3	5923.6	11737.5	5332.7	1873.0	1020.3	712.7
80°	386.8	426.4	609.1	764.4	1483.2	3730.8	1391.8	718.7	481.2	371.6
82.5°	213.2	216.2	344.1	432.5	551.2	965.4	572.6	420.3	277.1	225.4
85°	131.0	127.9	182.7	231.5	231.5	344.1	274.1	231.5	158.4	140.1
87.5°	51.8	51.8	67.0	73.1	64.0	88.3	70.0	76.1	60.9	57.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5810.9
5841.3
5887.0
5941.8
5993.6
6045.4
6127.6
6228.1
6343.9
6459.6
6590.5
6770.2
7026.1
7373.2
7811.8
8347.8
8975.2
9666.5
10403.6
11125.4
11883.7
12562.8
13245.0
14018.6
14911.0
16071.3
17125.1
16817.5
14512.0
9182.3
2552.2
636.5
341.1
225.4
146.2
60.9
0.0

OF REPORT)