

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: P954637

Luminaire Tested: **GALN-SB7D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954637
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-SB7D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68100 lumens
Efficiency: N/A
Efficacy: 132.8 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

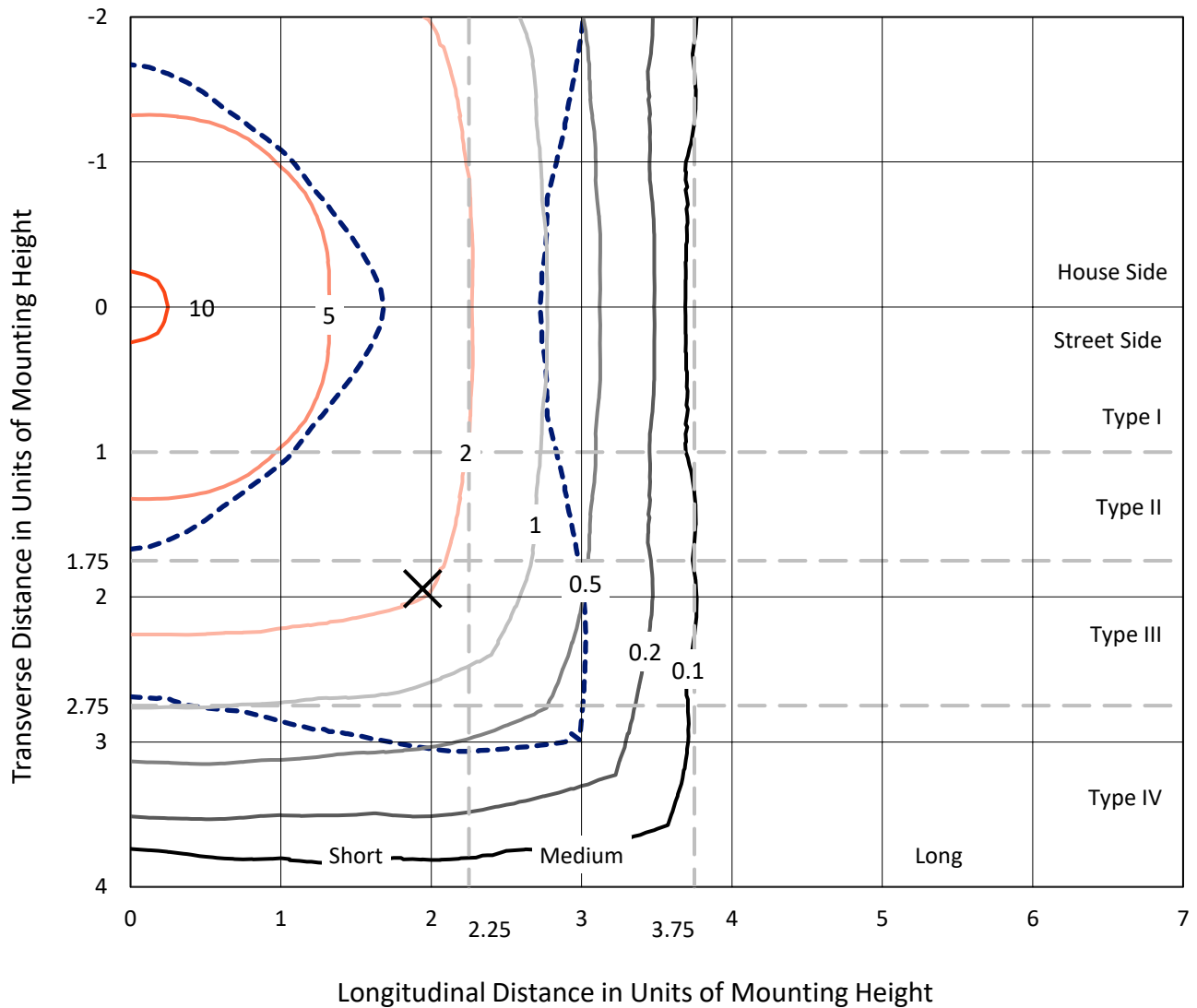
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

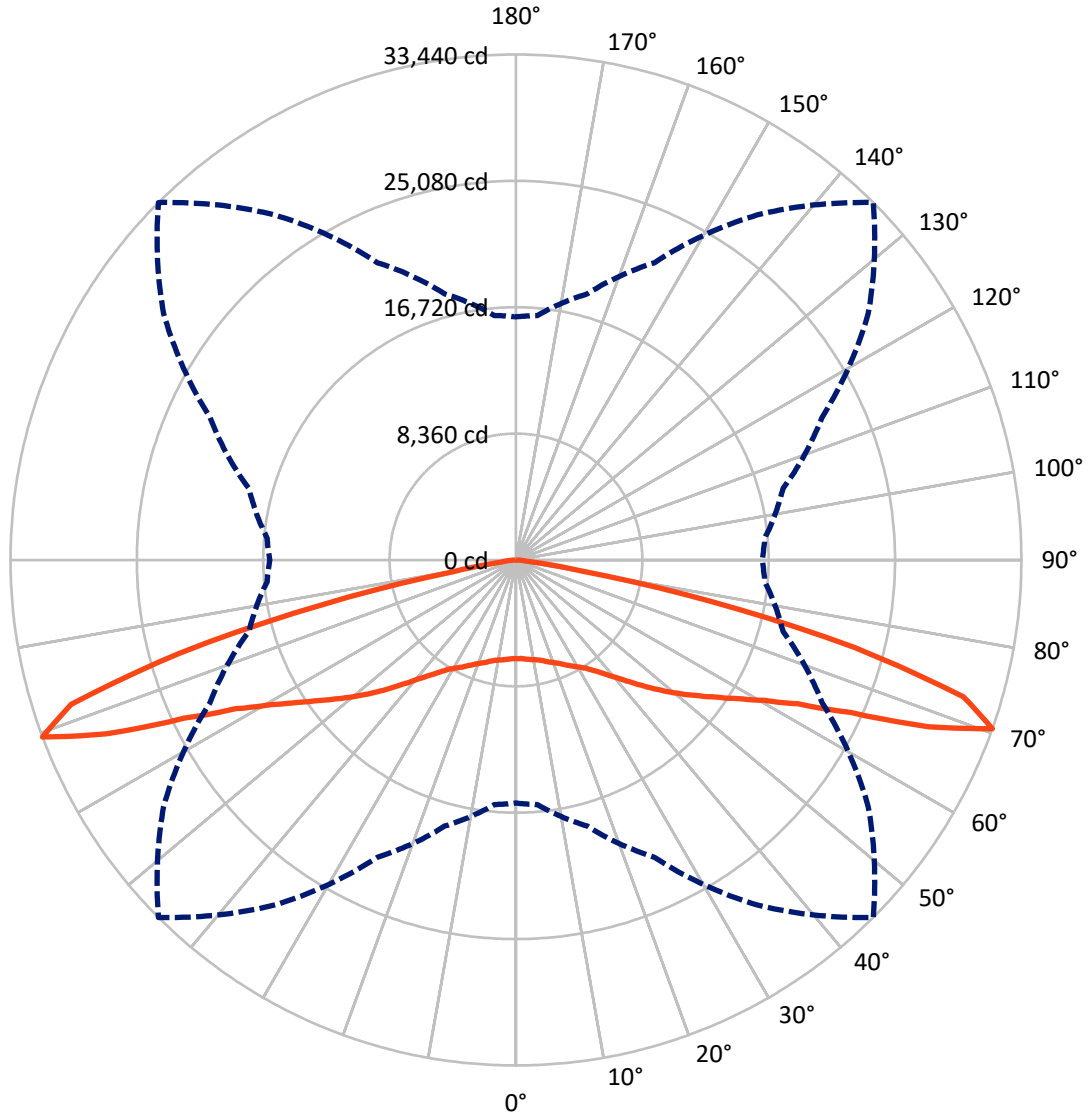
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	34050.0	0.0	34050.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34050.0	0.0	34050.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	68100.0	0.0	68100.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.7	0.9
10°-20°	1965.1	2.9
20°-30°	3511.9	5.2
30°-40°	5692.8	8.4
40°-50°	9272.7	13.6
50°-60°	14137.7	20.8
60°-70°	21032.4	30.9
70°-80°	11463.3	16.8
80°-90°	390.4	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°	68100.0	100.0
0°-180°	68100.0	100.0



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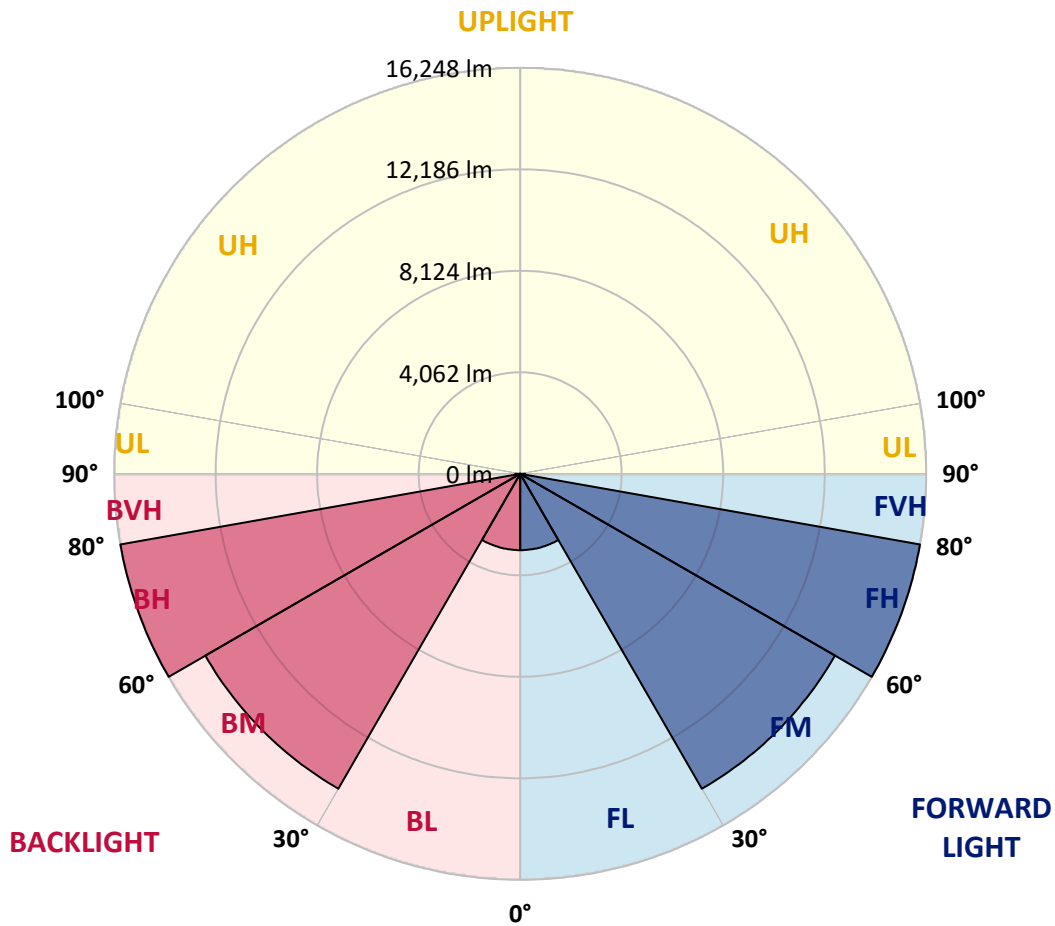
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3055.4	4.5			
FM (30°-60°)	14551.6	21.4			
FH (60°-80°)	16247.8	23.9			G5
FVH (80°-90°)	195.2	0.3			G2/225
BL (0°-30°)	3055.4	4.5	B4/5000		
BM (30°-60°)	14551.6	21.4	B5		
BH (60°-80°)	16247.8	23.9	B5		G5
BVH (80°-90°)	195.2	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°	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3
2.5°	6554.0	6560.9	6547.2	6540.4	6533.5	6523.3	6526.7	6543.8	6557.5	6554.0
5°	6608.7	6615.6	6605.3	6601.9	6588.2	6584.8	6584.8	6601.9	6612.2	6605.3
7.5°	6670.3	6680.5	6663.5	6660.0	6653.2	6646.4	6642.9	6660.0	6670.3	6670.3
10°	6728.4	6738.7	6725.0	6714.7	6707.9	6707.9	6701.1	6714.7	6731.8	6728.4
12.5°	6789.9	6796.8	6783.1	6776.3	6776.3	6786.5	6776.3	6783.1	6796.8	6789.9
15°	6865.2	6868.6	6865.2	6875.4	6892.5	6926.7	6895.9	6889.1	6895.9	6878.8
17.5°	6967.7	6974.6	6988.2	7012.2	7036.1	7097.7	7042.9	7025.9	7025.9	6991.7
20°	7094.2	7104.5	7125.0	7166.0	7196.8	7254.9	7200.2	7176.3	7166.0	7121.6
22.5°	7227.6	7244.7	7275.4	7330.1	7384.8	7439.5	7384.8	7343.8	7313.0	7254.9
25°	7381.4	7401.9	7449.8	7538.7	7613.9	7692.5	7627.6	7545.5	7484.0	7401.9
27.5°	7600.2	7624.2	7682.3	7791.7	7887.4	7955.8	7894.3	7788.3	7702.8	7603.6
30°	7907.9	7931.9	8000.2	8116.5	8181.4	8225.9	8184.9	8102.8	8000.2	7887.4
32.5°	8304.5	8335.3	8410.5	8519.9	8533.6	8540.4	8526.8	8485.7	8410.5	8273.8
35°	8807.1	8841.3	8926.8	9015.7	9002.0	9015.7	8995.1	8981.5	8926.8	8769.5
37.5°	9422.5	9463.5	9552.4	9620.8	9586.6	9569.5	9572.9	9576.4	9545.6	9371.2
40°	10137.1	10191.8	10256.7	10328.5	10270.4	10219.1	10253.3	10280.7	10253.3	10075.5
42.5°	10872.1	10950.8	11019.1	11121.7	11073.8	11008.9	11056.7	11087.5	11029.4	10837.9
45°	11689.2	11764.5	11853.4	12007.2	11973.0	11904.6	11973.0	11979.9	11880.7	11655.1
47.5°	12533.7	12612.3	12745.7	12950.8	12937.1	12861.9	12950.8	12903.0	12776.5	12506.4
50°	13333.7	13443.1	13648.3	13935.5	13962.8	13870.5	13990.2	13897.9	13685.9	13347.4
52.5°	14085.9	14202.1	14526.9	14916.7	15015.8	14896.2	15056.9	14896.2	14578.2	14144.0
55°	14875.7	15005.6	15391.9	15901.3	16099.6	16010.7	16161.2	15918.4	15467.1	14940.6
57.5°	15805.6	15884.2	16345.8	16950.9	17286.0	17306.5	17374.9	16964.6	16417.6	15819.3
60°	16814.2	16923.6	17426.2	18151.0	18680.9	18851.9	18780.1	18171.5	17535.6	16848.4
62.5°	18106.5	18226.2	18827.9	19696.3	20534.0	20957.9	20677.6	19795.5	19009.1	18185.2
65°	19176.7	19310.0	20397.2	21946.0	23470.8	24322.1	23617.8	21993.8	20578.4	19416.0
67.5°	18400.6	18564.7	20270.7	23115.2	26906.8	29447.0	27036.7	23464.0	20691.2	19115.1
70°	16082.5	16236.4	18226.2	21703.2	27874.4	33440.3	28455.6	22342.6	18291.2	16527.0
72.5°	10677.2	11173.0	13186.7	17357.8	24889.6	30944.5	25135.8	17005.6	12232.9	10653.3
75°	3542.0	3938.6	5313.0	8998.6	16670.6	23142.6	15870.6	7962.6	4208.7	3029.2
77.5°	892.3	1029.1	1418.8	2574.4	6649.8	13176.5	5986.5	2102.6	1145.3	800.0
80°	434.2	478.6	683.8	858.1	1665.0	4188.2	1562.4	806.9	540.2	417.1
82.5°	239.3	242.7	386.3	485.5	618.8	1083.8	642.8	471.8	311.1	253.0
85°	147.0	143.6	205.1	259.8	259.8	386.3	307.7	259.8	177.8	157.3
87.5°	58.1	58.1	75.2	82.1	71.8	99.1	78.6	85.5	68.4	65.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6523.3
6557.5
6608.7
6670.3
6728.4
6786.5
6878.8
6991.7
7121.6
7251.5
7398.5
7600.2
7887.4
8277.2
8769.5
9371.2
10075.5
10851.6
11679.0
12489.3
13340.6
14103.0
14868.8
15737.2
16739.0
18041.6
19224.5
18879.2
16291.1
10308.0
2865.0
714.6
382.9
253.0
164.1
68.4
0.0

OF REPORT)