

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: P957493

Luminaire Tested: **GALN-SB9D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957493
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-SB9D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 87220 lumens
Efficiency: N/A
Efficacy: 132.6 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

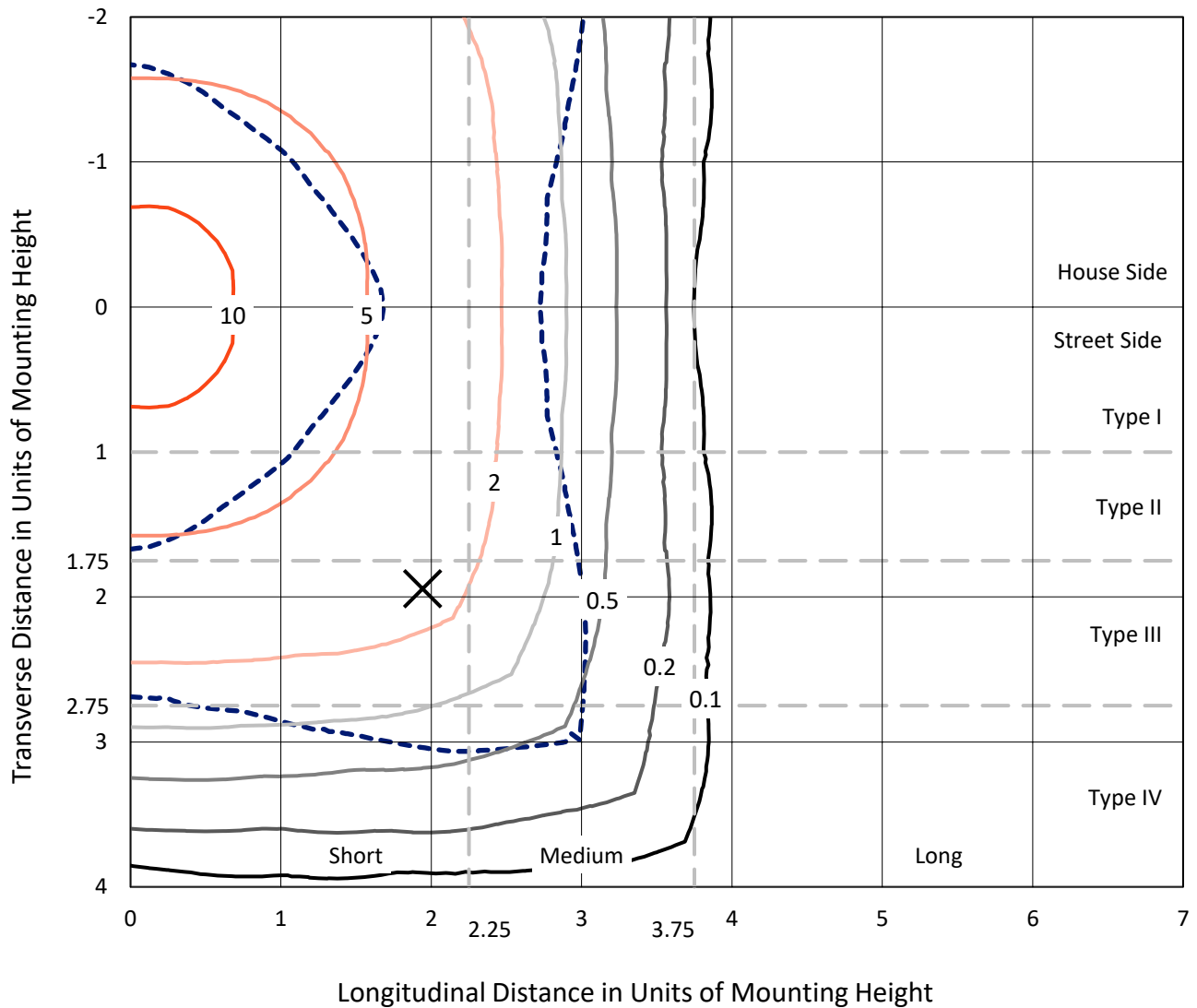
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

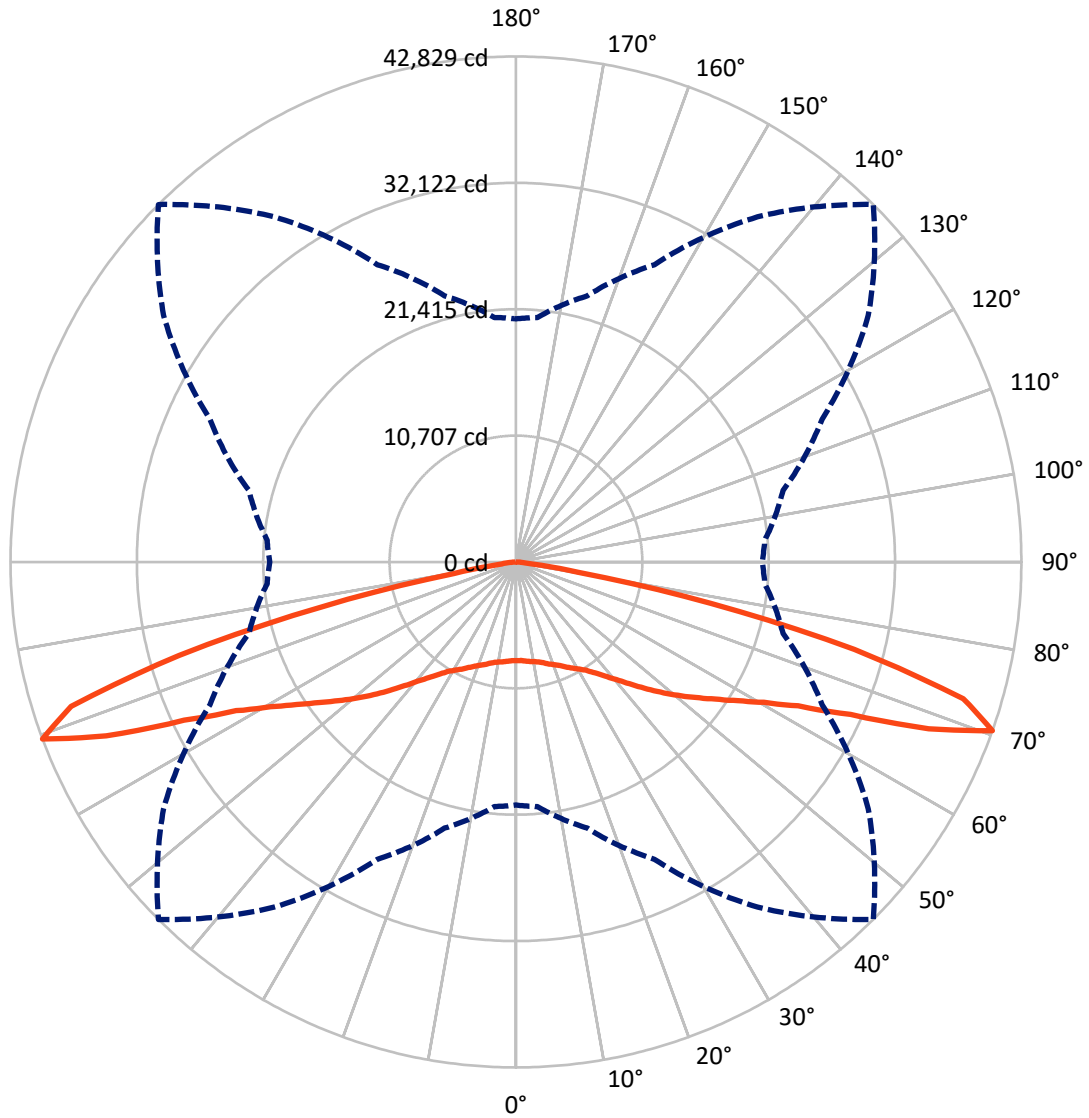
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	43610.0	0.0	43610.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	43610.0	0.0	43610.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	87220.0	0.0	87220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.7	0.9
10°-20°	2516.9	2.9
20°-30°	4498.0	5.2
30°-40°	7291.2	8.4
40°-50°	11876.1	13.6
50°-60°	18107.0	20.8
60°-70°	26937.5	30.9
70°-80°	14681.8	16.8
80°-90°	500.0	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°	87220.0	100.0
0°-180°	87220.0	100.0



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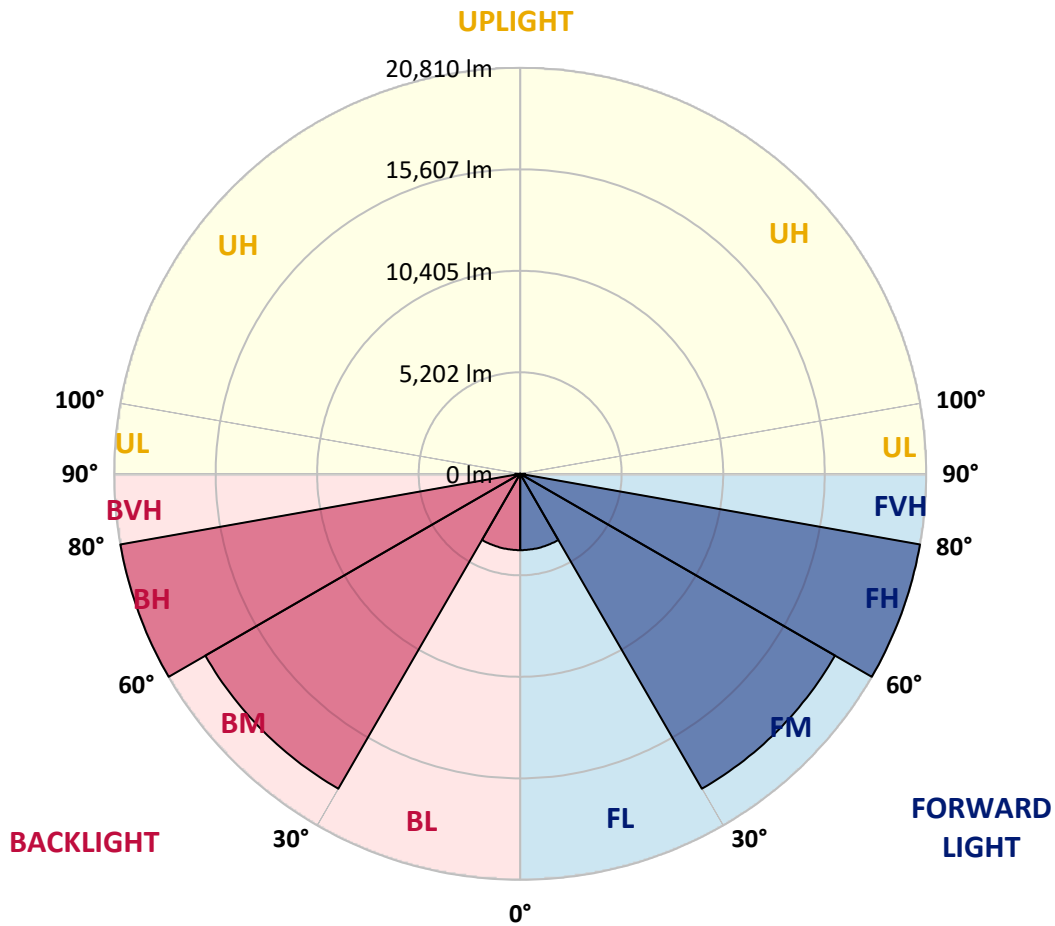
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3913.3	4.5			
FM (30°-60°)	18637.1	21.4			
FH (60°-80°)	20809.6	23.9			G5
FVH (80°-90°)	250.0	0.3			G3/500
BL (0°-30°)	3913.3	4.5	B4/5000		
BM (30°-60°)	18637.1	21.4	B5		
BH (60°-80°)	20809.6	23.9	B5		G5
BVH (80°-90°)	250.0	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°	8354.8	8354.8	8354.8	8354.8	8354.8	8354.8	8354.8	8354.8	8354.8	8354.8
2.5°	8394.2	8402.9	8385.4	8376.7	8367.9	8354.8	8359.2	8381.0	8398.6	8394.2
5°	8464.2	8473.0	8459.9	8455.5	8438.0	8433.6	8433.6	8455.5	8468.6	8459.9
7.5°	8543.1	8556.2	8534.3	8529.9	8521.2	8512.4	8508.0	8529.9	8543.1	8543.1
10°	8617.5	8630.6	8613.1	8600.0	8591.2	8591.2	8582.5	8600.0	8621.9	8617.5
12.5°	8696.3	8705.1	8687.6	8678.8	8678.8	8691.9	8678.8	8687.6	8705.1	8696.3
15°	8792.7	8797.0	8792.7	8805.8	8827.7	8871.5	8832.1	8823.3	8832.1	8810.2
17.5°	8924.0	8932.8	8950.3	8980.9	9011.6	9090.4	9020.4	8998.5	8998.5	8954.7
20°	9086.0	9099.2	9125.4	9178.0	9217.4	9291.8	9221.8	9191.1	9178.0	9121.1
22.5°	9256.8	9278.7	9318.1	9388.2	9458.2	9528.3	9458.2	9405.7	9366.3	9291.8
25°	9453.9	9480.1	9541.4	9655.3	9751.6	9852.3	9769.1	9664.0	9585.2	9480.1
27.5°	9734.1	9764.8	9839.2	9979.3	10101.9	10189.5	10110.7	9974.9	9865.5	9738.5
30°	10128.2	10158.8	10246.4	10395.3	10478.5	10535.4	10482.9	10377.8	10246.4	10101.9
32.5°	10636.1	10675.5	10771.9	10912.0	10929.5	10938.3	10920.8	10868.2	10771.9	10596.7
35°	11279.8	11323.6	11433.1	11546.9	11529.4	11546.9	11520.7	11503.1	11433.1	11231.7
37.5°	12068.0	12120.6	12234.4	12322.0	12278.2	12256.3	12260.7	12265.1	12225.6	12002.3
40°	12983.2	13053.2	13136.4	13228.4	13154.0	13088.3	13132.1	13167.1	13132.1	12904.4
42.5°	13924.6	14025.3	14112.9	14244.3	14183.0	14099.8	14161.1	14200.5	14126.0	13880.8
45°	14971.2	15067.5	15181.3	15378.4	15334.6	15247.0	15334.6	15343.4	15216.4	14927.4
47.5°	16052.7	16153.4	16324.2	16586.9	16569.4	16473.1	16586.9	16525.6	16363.6	16017.7
50°	17077.4	17217.5	17480.2	17848.0	17883.1	17764.8	17918.1	17799.9	17528.4	17094.9
52.5°	18040.7	18189.6	18605.6	19104.8	19231.7	19078.5	19284.3	19078.5	18671.3	18115.1
55°	19052.2	19218.6	19713.4	20365.9	20619.8	20506.0	20698.6	20387.7	19809.7	19135.4
57.5°	20243.2	20344.0	20935.1	21710.1	22139.3	22165.5	22253.1	21727.7	21027.1	20260.8
60°	21535.0	21675.1	22318.8	23247.1	23925.8	24144.8	24052.8	23273.4	22458.9	21578.8
62.5°	23190.2	23343.4	24114.1	25226.3	26299.1	26842.1	26483.1	25353.3	24346.2	23290.9
65°	24560.8	24731.5	26124.0	28107.6	30060.5	31150.9	30248.8	28168.9	26356.1	24867.3
67.5°	23566.8	23776.9	25962.0	29605.1	34461.3	37714.7	34627.6	30051.8	26500.6	24481.9
70°	20597.9	20795.0	23343.4	27796.7	35700.5	42829.2	36444.9	28615.5	23426.6	21167.2
72.5°	13675.0	14310.0	16889.1	22231.2	31877.8	39632.6	32193.0	21780.2	15667.4	13644.4
75°	4536.4	5044.4	6804.7	11525.0	21351.1	29640.2	20326.4	10198.3	5390.3	3879.6
77.5°	1142.9	1318.0	1817.2	3297.2	8516.8	16875.9	7667.3	2693.0	1466.9	1024.6
80°	556.1	613.0	875.8	1099.1	2132.5	5364.0	2001.1	1033.4	691.9	534.2
82.5°	306.5	310.9	494.8	621.8	792.6	1388.1	823.2	604.3	398.5	324.0
85°	188.3	183.9	262.7	332.8	332.8	494.8	394.1	332.8	227.7	201.4
87.5°	74.4	74.4	96.3	105.1	92.0	127.0	100.7	109.5	87.6	83.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8354.8
8398.6
8464.2
8543.1
8617.5
8691.9
8810.2
8954.7
9121.1
9287.5
9475.7
9734.1
10101.9
10601.1
11231.7
12002.3
12904.4
13898.3
14958.0
15995.8
17086.1
18062.6
19043.5
20155.7
21438.7
23107.0
24622.1
24179.8
20865.0
13202.1
3669.4
915.2
490.4
324.0
210.2
87.6
0.0

OF REPORT)