

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: P955351

Luminaire Tested: **GALN-SB8B-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955351
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-SB8B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42848 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

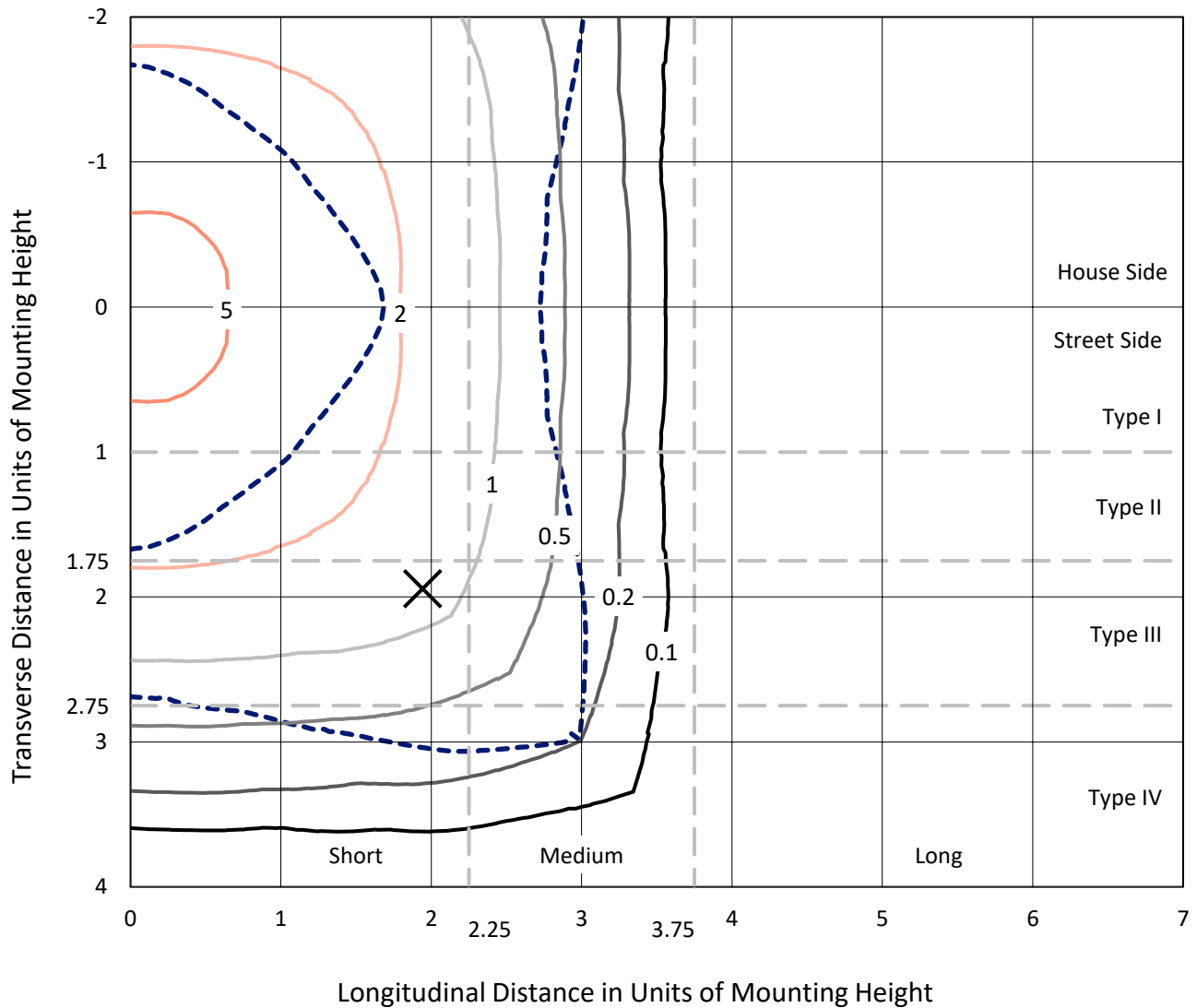
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

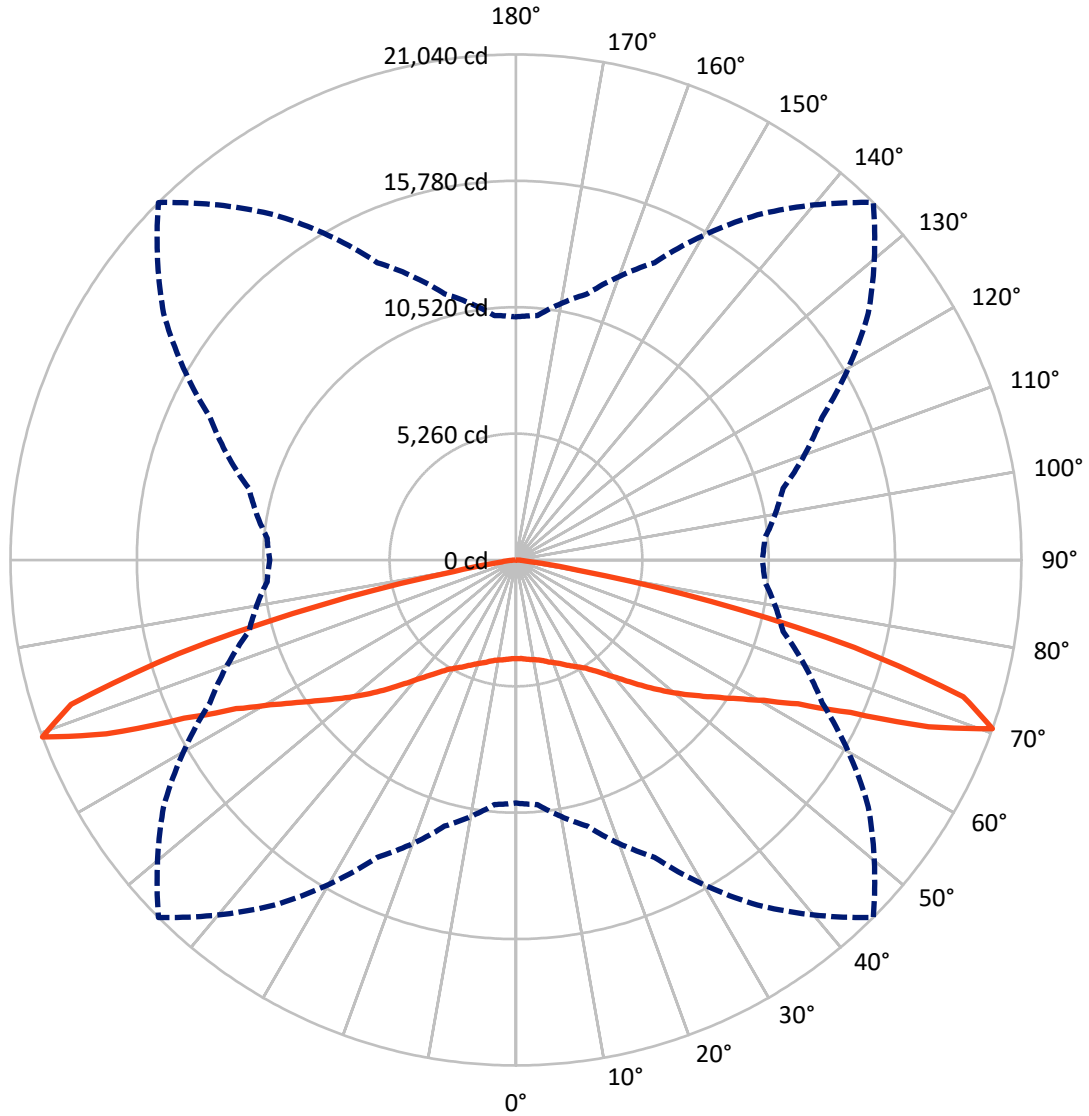
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	21424.0	0.0	21424.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21424.0	0.0	21424.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42848.0	0.0	42848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.7	0.9
10°-20°	1236.5	2.9
20°-30°	2209.7	5.2
30°-40°	3581.9	8.4
40°-50°	5834.3	13.6
50°-60°	8895.3	20.8
60°-70°	13233.4	30.9
70°-80°	7212.6	16.8
80°-90°	245.6	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°	42848.0	100.0
0°-180°	42848.0	100.0



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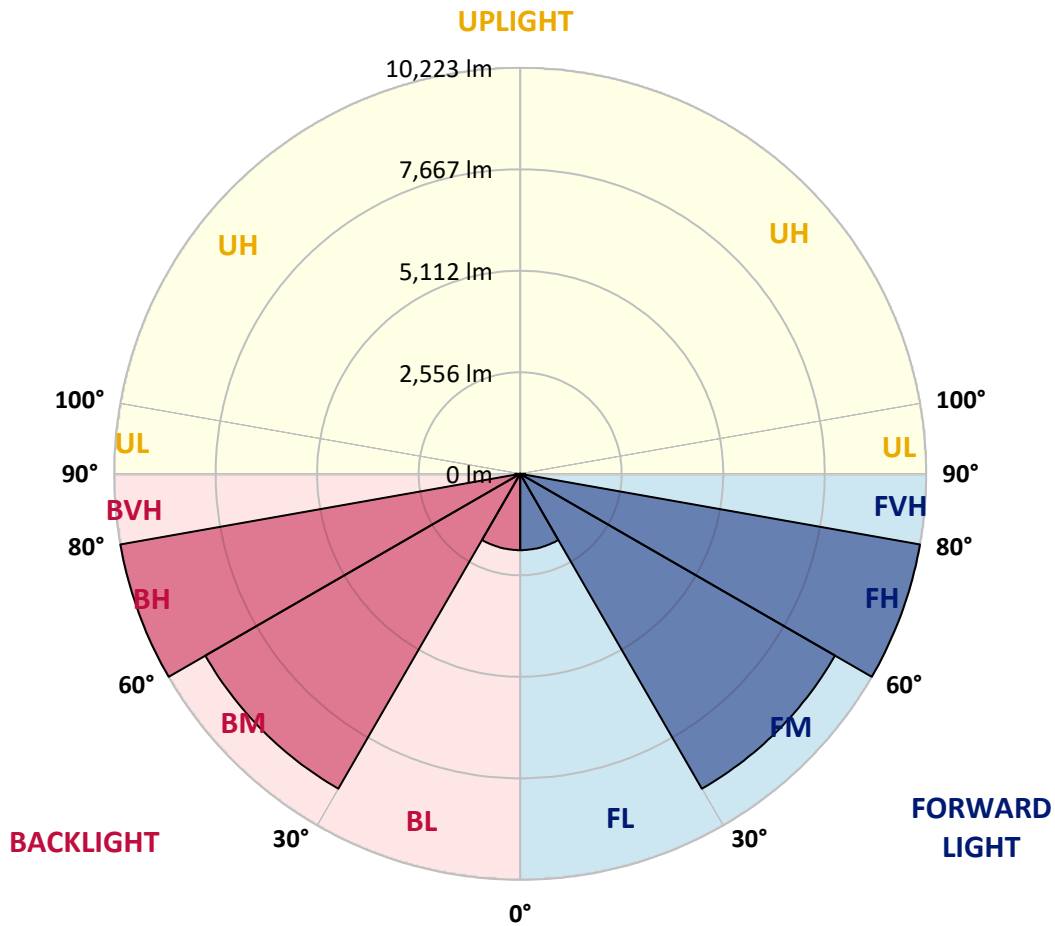
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.4	4.5			
FM (30°-60°)	9155.7	21.4			
FH (60°-80°)	10223.0	23.9			G4/12000
FVH (80°-90°)	122.8	0.3			G2/225
BL (0°-30°)	1922.4	4.5	B3/2500		
BM (30°-60°)	9155.7	21.4	B5		
BH (60°-80°)	10223.0	23.9	B5		G4/12000
BVH (80°-90°)	122.8	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4104.4	4104.4	4104.4	4104.4	4104.4	4104.4	4104.4	4104.4	4104.4	4104.4
2.5°	4123.8	4128.1	4119.5	4115.2	4110.8	4104.4	4106.5	4117.3	4125.9	4123.8
5°	4158.2	4162.5	4156.0	4153.9	4145.3	4143.1	4143.1	4153.9	4160.3	4156.0
7.5°	4196.9	4203.3	4192.6	4190.4	4186.1	4181.8	4179.7	4190.4	4196.9	4196.9
10°	4233.5	4239.9	4231.3	4224.9	4220.6	4220.6	4216.3	4224.9	4235.6	4233.5
12.5°	4272.2	4276.5	4267.9	4263.6	4263.6	4270.0	4263.6	4267.9	4276.5	4272.2
15°	4319.5	4321.7	4319.5	4326.0	4336.7	4358.2	4338.9	4334.6	4338.9	4328.1
17.5°	4384.0	4388.3	4397.0	4412.0	4427.1	4465.8	4431.4	4420.6	4420.6	4399.1
20°	4463.6	4470.1	4483.0	4508.8	4528.2	4564.7	4530.3	4515.3	4508.8	4480.8
22.5°	4547.5	4558.3	4577.6	4612.1	4646.5	4680.9	4646.5	4620.7	4601.3	4564.7
25°	4644.3	4657.2	4687.4	4743.3	4790.6	4840.1	4799.2	4747.6	4708.9	4657.2
27.5°	4782.0	4797.1	4833.6	4902.5	4962.7	5005.7	4967.0	4900.3	4846.5	4784.2
30°	4975.6	4990.7	5033.7	5106.8	5147.7	5175.7	5149.9	5098.2	5033.7	4962.7
32.5°	5225.1	5244.5	5291.8	5360.7	5369.3	5373.6	5365.0	5339.2	5291.8	5205.8
35°	5541.4	5562.9	5616.7	5672.6	5664.0	5672.6	5659.7	5651.1	5616.7	5517.7
37.5°	5928.6	5954.4	6010.3	6053.3	6031.8	6021.1	6023.2	6025.4	6006.0	5896.3
40°	6378.2	6412.6	6453.5	6498.6	6462.1	6429.8	6451.3	6468.5	6451.3	6339.4
42.5°	6840.7	6890.1	6933.2	6997.7	6967.6	6926.7	6956.8	6976.2	6939.6	6819.1
45°	7354.8	7402.1	7458.0	7554.8	7533.3	7490.3	7533.3	7537.6	7475.2	7333.3
47.5°	7886.1	7935.6	8019.5	8148.6	8140.0	8092.6	8148.6	8118.4	8038.8	7868.9
50°	8389.5	8458.3	8587.4	8768.1	8785.3	8727.2	8802.5	8744.4	8611.1	8398.1
52.5°	8862.7	8935.9	9140.2	9385.5	9447.9	9372.6	9473.7	9372.6	9172.5	8899.3
55°	9359.7	9441.4	9684.5	10005.0	10129.8	10073.8	10168.5	10015.8	9731.8	9400.5
57.5°	9944.8	9994.2	10284.6	10665.4	10876.2	10889.1	10932.1	10674.0	10329.8	9953.4
60°	10579.4	10648.2	10964.4	11420.5	11753.9	11861.4	11816.3	11433.4	11033.3	10600.9
62.5°	11392.5	11467.8	11846.4	12392.8	12919.8	13186.6	13010.2	12455.2	11960.4	11442.0
65°	12065.8	12149.7	12833.8	13808.2	14767.6	15303.3	14860.1	13838.4	12947.8	12216.4
67.5°	11577.5	11680.7	12754.2	14543.9	16929.6	18527.9	17011.3	14763.3	13018.8	12027.1
70°	10119.0	10215.8	11467.8	13655.5	17538.3	21040.4	17904.0	14057.8	11508.7	10398.7
72.5°	6718.0	7030.0	8297.0	10921.4	15660.4	19470.1	15815.3	10699.8	7696.8	6703.0
75°	2228.6	2478.1	3342.9	5661.8	10489.0	14561.1	9985.6	5010.0	2648.1	1905.9
77.5°	561.5	647.5	892.7	1619.8	4184.0	8290.5	3766.7	1323.0	720.6	503.4
80°	273.2	301.2	430.2	539.9	1047.6	2635.2	983.1	507.7	339.9	262.4
82.5°	150.6	152.7	243.1	305.5	389.4	681.9	404.4	296.9	195.8	159.2
85°	92.5	90.3	129.1	163.5	163.5	243.1	193.6	163.5	111.9	99.0
87.5°	36.6	36.6	47.3	51.6	45.2	62.4	49.5	53.8	43.0	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4104.4
4125.9
4158.2
4196.9
4233.5
4270.0
4328.1
4399.1
4480.8
4562.6
4655.1
4782.0
4962.7
5207.9
5517.7
5896.3
6339.4
6827.8
7348.3
7858.2
8393.8
8873.5
9355.4
9901.7
10532.0
11351.6
12095.9
11878.7
10250.2
6485.7
1802.7
449.6
240.9
159.2
103.3
43.0
0.0

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