

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: P954974

Luminaire Tested: **GALN-SB8A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33052 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

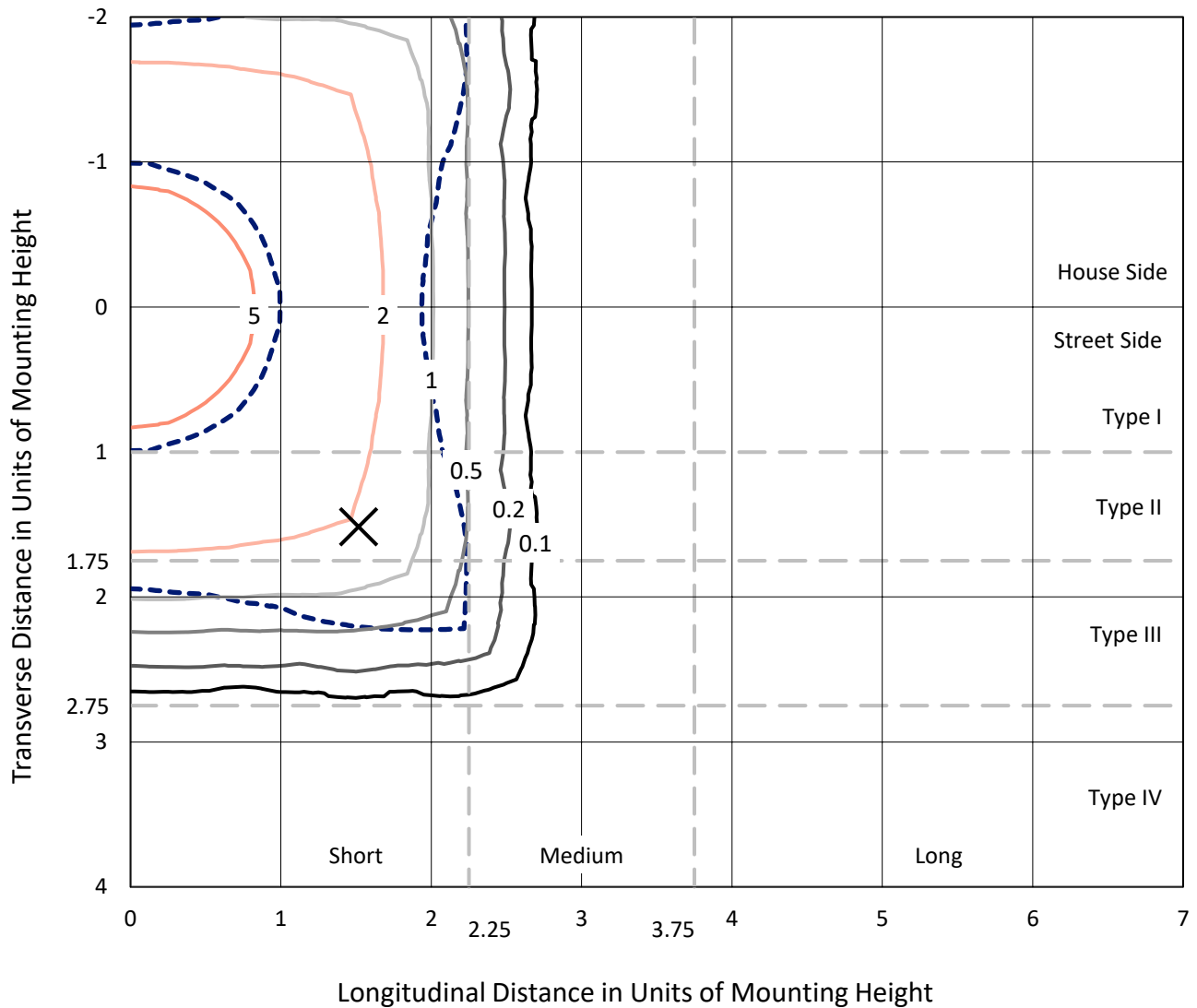
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

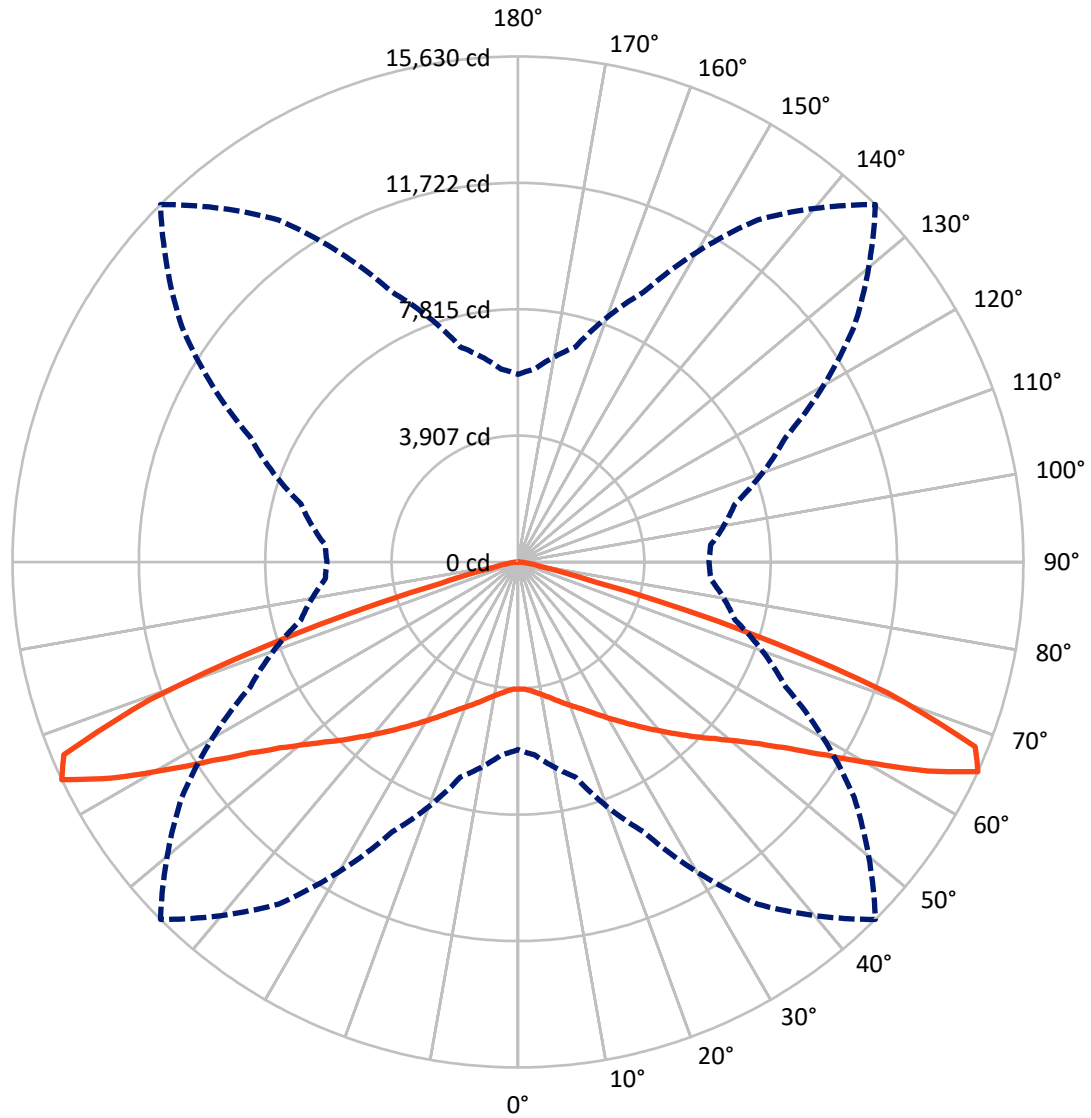
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16526.0	0.0	16526.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16526.0	0.0	16526.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33052.0	0.0	33052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.2	1.2
10°-20°	1266.7	3.8
20°-30°	2391.7	7.2
30°-40°	3916.4	11.8
40°-50°	6072.4	18.4
50°-60°	8970.1	27.1
60°-70°	8538.8	25.8
70°-80°	1377.8	4.2
80°-90°	129.9	0.4
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°	33052.0	100.0
0°-180°	33052.0	100.0

Coefficient of Utilization



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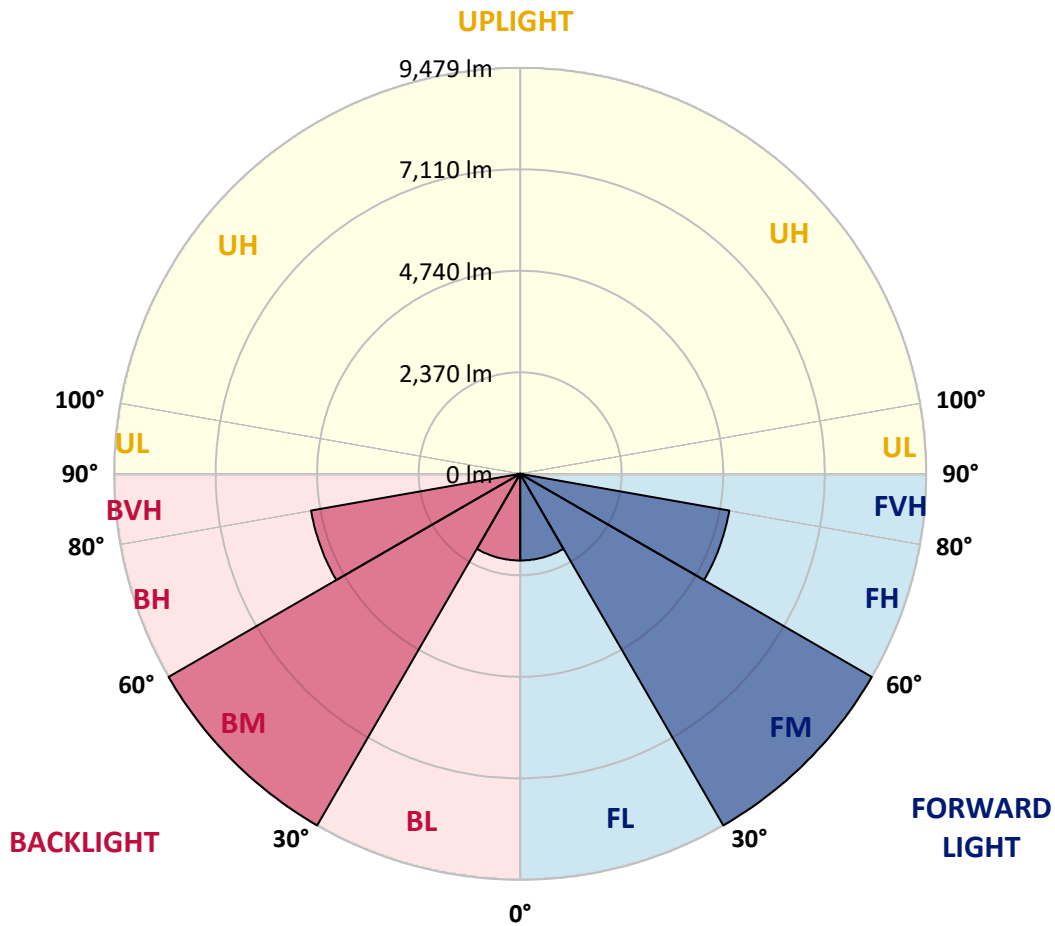
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.3	6.1			
FM (30°-60°)	9479.4	28.7			
FH (60°-80°)	4958.3	15.0			G2/5000
FVH (80°-90°)	64.9	0.2			G1/100
BL (0°-30°)	2023.3	6.1	B3/2500		
BM (30°-60°)	9479.4	28.7	B5		
BH (60°-80°)	4958.3	15.0	B4/5000		G2/5000
BVH (80°-90°)	64.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5	3933.5
2.5°	3960.1	3946.8	3956.7	3948.4	3941.8	3935.2	3938.5	3950.1	3955.1	3956.7
5°	4013.1	4001.5	4006.5	4006.5	3994.9	3991.6	3993.2	4001.5	4011.5	4011.5
7.5°	4099.3	4087.7	4099.3	4092.7	4082.8	4079.5	4077.8	4084.4	4099.3	4099.3
10°	4203.8	4190.6	4197.2	4193.9	4182.3	4177.3	4175.6	4185.6	4198.8	4197.2
12.5°	4318.2	4303.3	4311.6	4301.7	4298.3	4293.4	4293.4	4291.7	4300.0	4293.4
15°	4445.9	4436.0	4439.3	4432.7	4437.6	4434.3	4421.1	4414.4	4417.7	4407.8
17.5°	4596.8	4573.6	4585.2	4581.9	4581.9	4588.6	4567.0	4558.7	4565.3	4555.4
20°	4771.0	4747.8	4752.7	4746.1	4737.8	4744.4	4717.9	4724.5	4729.5	4722.9
22.5°	4961.7	4931.8	4930.2	4933.5	4915.2	4916.9	4898.7	4915.2	4925.2	4906.9
25°	5157.4	5125.8	5147.4	5139.1	5115.9	5120.9	5107.6	5124.2	5132.5	5109.3
27.5°	5364.6	5343.1	5363.0	5368.0	5339.8	5359.7	5339.8	5354.7	5363.0	5328.2
30°	5606.8	5585.2	5603.4	5616.7	5583.5	5615.0	5598.5	5608.4	5610.1	5568.6
32.5°	5870.4	5837.3	5883.7	5890.3	5853.8	5892.0	5870.4	5883.7	5892.0	5835.6
35°	6192.1	6150.7	6203.7	6195.5	6163.9	6195.5	6175.6	6195.5	6215.4	6147.4
37.5°	6538.7	6495.6	6552.0	6537.1	6507.2	6528.8	6517.2	6530.4	6561.9	6489.0
40°	6920.1	6867.1	6943.4	6916.8	6888.6	6885.3	6891.9	6900.2	6941.7	6860.4
42.5°	7328.1	7271.7	7386.1	7344.7	7304.9	7278.3	7299.9	7316.5	7356.3	7265.1
45°	7794.1	7729.4	7878.6	7828.9	7765.9	7711.2	7746.0	7770.9	7828.9	7719.4
47.5°	8308.1	8235.2	8394.4	8379.5	8276.6	8157.2	8236.8	8308.1	8351.3	8218.6
50°	8810.6	8754.2	8963.2	8981.4	8855.4	8687.9	8799.0	8906.8	8918.4	8744.3
52.5°	9281.6	9225.2	9528.7	9643.1	9530.3	9331.3	9449.1	9558.5	9470.6	9245.1
55°	9658.0	9611.6	9998.0	10293.1	10331.3	10167.1	10236.8	10233.4	9944.9	9598.3
57.5°	9749.2	9742.6	10230.1	10855.3	11253.3	11273.2	11135.6	10784.0	10162.1	9696.2
60°	9334.6	9376.1	10046.1	11148.8	12210.2	12651.3	12055.9	11052.7	9915.1	9268.3
62.5°	8094.2	8203.7	9011.3	10790.6	12982.9	14236.6	12793.9	10644.7	8900.2	8056.1
65°	5800.8	5991.5	6883.7	9208.6	12913.3	15629.6	12687.8	9134.0	6950.0	5976.6
67.5°	2631.7	2825.8	3583.6	6304.9	11225.1	15251.5	11198.6	6371.2	3762.7	2835.7
70°	953.5	986.7	1230.5	2524.0	7173.9	12152.1	7480.7	2542.2	1308.4	1051.4
72.5°	577.1	582.1	633.5	903.8	2492.4	7377.8	2598.6	933.6	646.7	573.8
75°	366.5	363.2	451.1	552.2	883.9	2489.1	927.0	552.2	449.4	409.6
77.5°	263.7	272.0	323.4	412.9	557.2	844.1	547.2	394.7	323.4	265.3
80°	197.3	202.3	235.5	321.7	391.4	525.7	348.2	291.9	243.8	165.8
82.5°	142.6	142.6	154.2	233.8	238.8	283.6	189.0	205.6	160.9	117.7
85°	84.6	82.9	96.2	139.3	124.4	104.5	86.2	126.0	101.2	73.0
87.5°	29.8	31.5	29.8	39.8	33.2	28.2	26.5	34.8	28.2	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3933.5
3956.7
4011.5
4094.4
4193.9
4296.7
4409.5
4563.7
4737.8
4925.2
5135.8
5354.7
5593.5
5873.7
6188.8
6533.8
6887.0
7313.2
7775.8
8263.4
8765.8
9251.7
9609.9
9666.3
9192.0
8006.3
5905.3
2794.3
1038.1
583.7
412.9
270.3
170.8
117.7
71.3
23.2
0.0

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