

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: P955330

Luminaire Tested: **GALN-SB8B-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955330
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-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41466 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

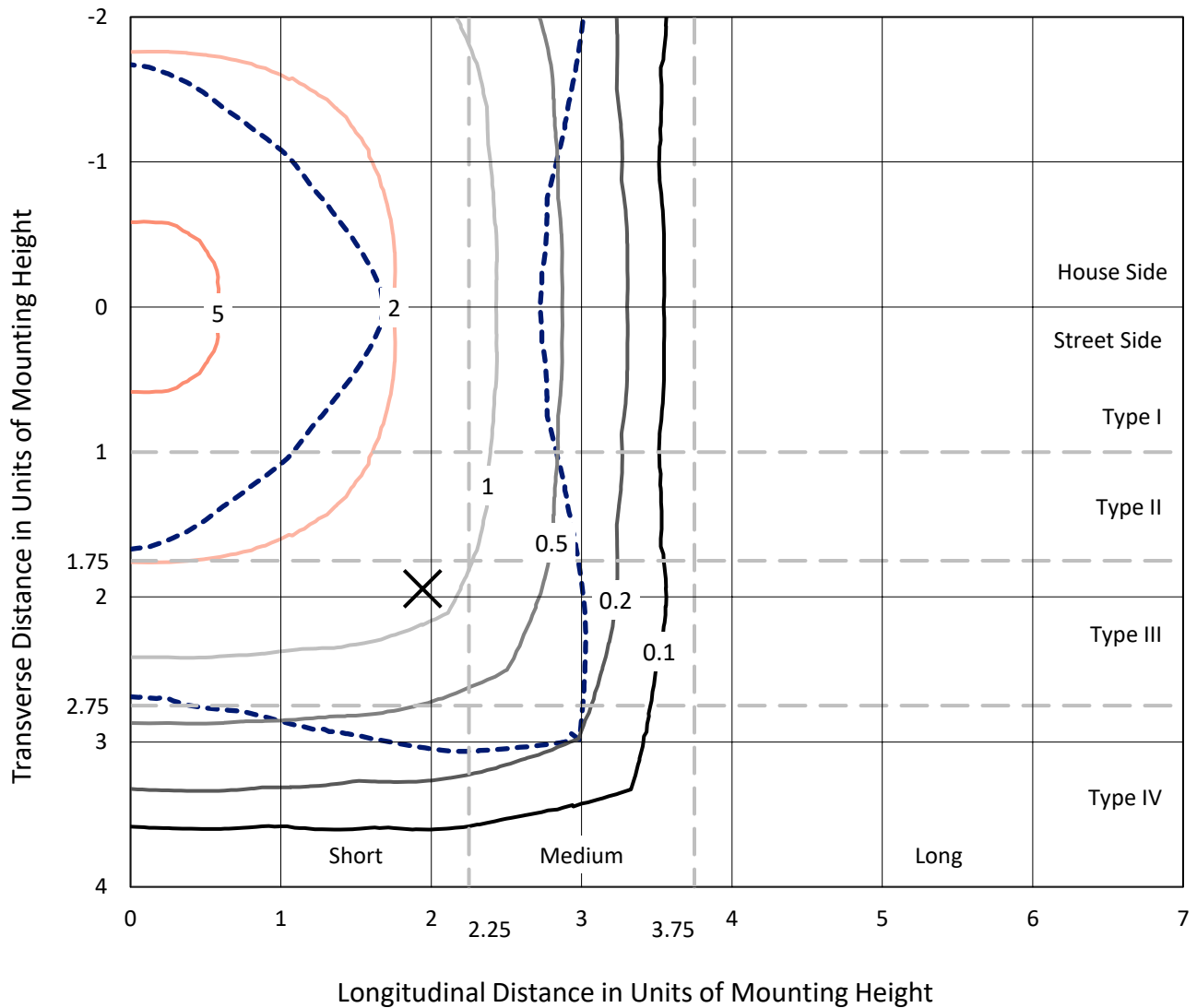
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

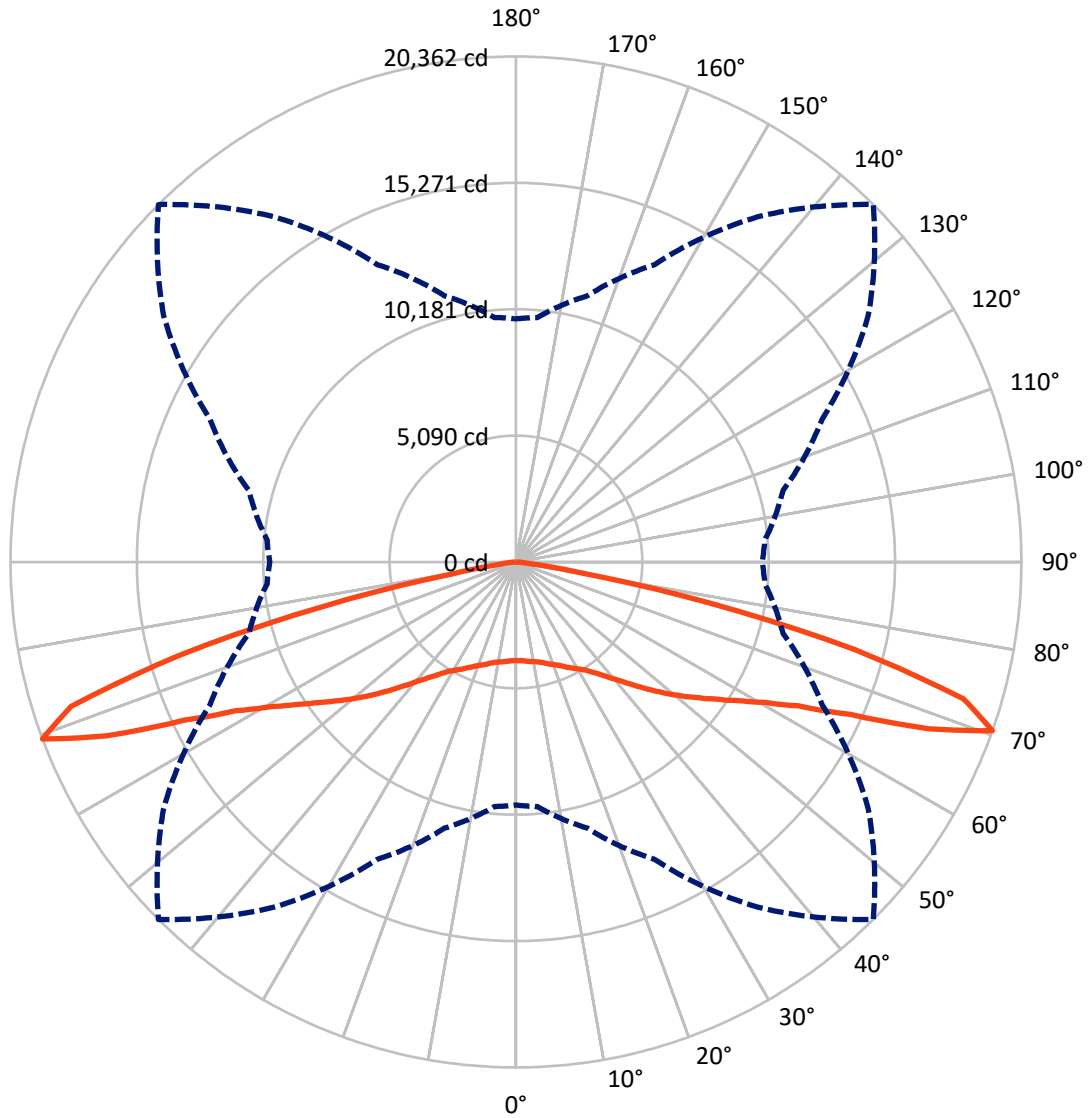
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	20733.0	0.0	20733.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20733.0	0.0	20733.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41466.0	0.0	41466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.9	0.9
10°-20°	1196.6	2.9
20°-30°	2138.4	5.2
30°-40°	3466.3	8.4
40°-50°	5646.1	13.6
50°-60°	8608.4	20.8
60°-70°	12806.6	30.9
70°-80°	6980.0	16.8
80°-90°	237.7	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°	41466.0	100.0
0°-180°	41466.0	100.0



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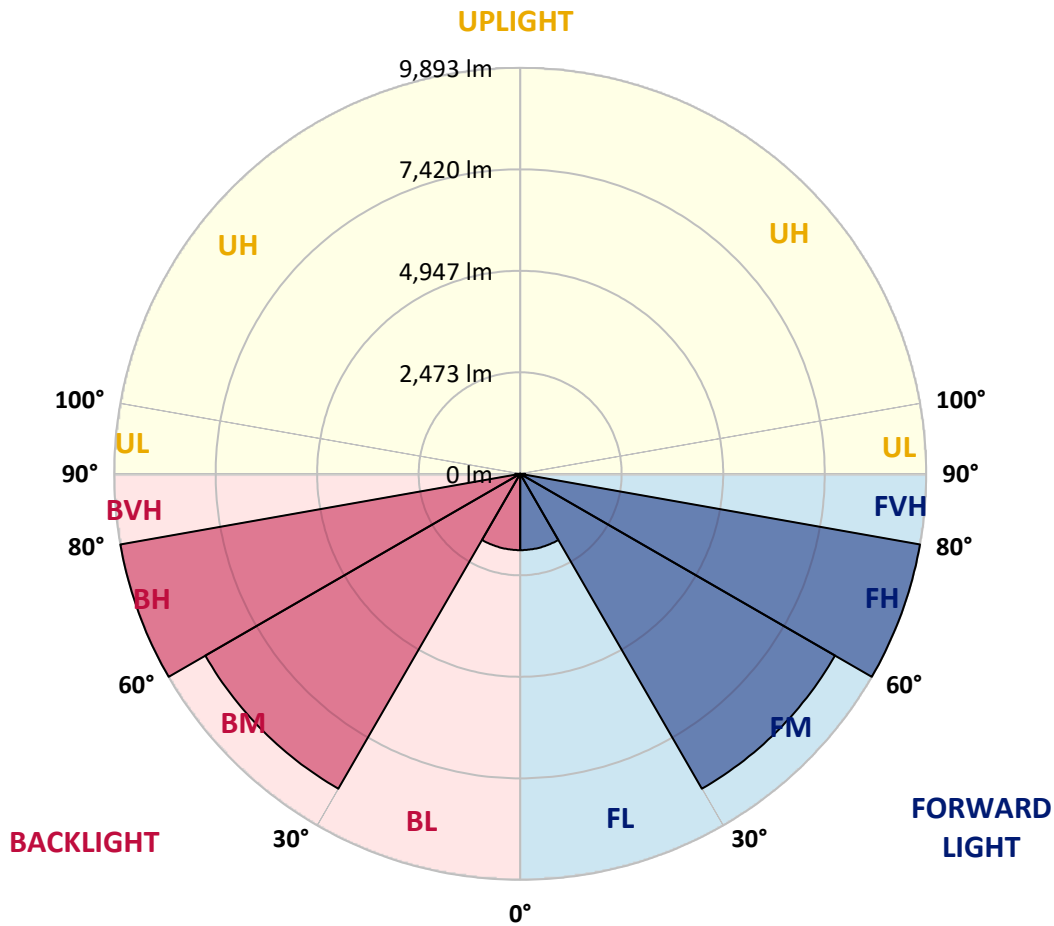
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.4	4.5			
FM (30°-60°)	8860.4	21.4			
FH (60°-80°)	9893.3	23.9			G4/12000
FVH (80°-90°)	118.8	0.3			G2/225
BL (0°-30°)	1860.4	4.5	B3/2500		
BM (30°-60°)	8860.4	21.4	B5		
BH (60°-80°)	9893.3	23.9	B5		G4/12000
BVH (80°-90°)	118.8	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°	3972.0	3972.0	3972.0	3972.0	3972.0	3972.0	3972.0	3972.0	3972.0	3972.0
2.5°	3990.7	3994.9	3986.6	3982.4	3978.3	3972.0	3974.1	3984.5	3992.8	3990.7
5°	4024.1	4028.2	4022.0	4019.9	4011.6	4009.5	4009.5	4019.9	4026.1	4022.0
7.5°	4061.5	4067.8	4057.4	4055.3	4051.1	4047.0	4044.9	4055.3	4061.5	4061.5
10°	4096.9	4103.2	4094.8	4088.6	4084.4	4084.4	4080.3	4088.6	4099.0	4096.9
12.5°	4134.4	4138.6	4130.2	4126.1	4126.1	4132.3	4126.1	4130.2	4138.6	4134.4
15°	4180.2	4182.3	4180.2	4186.4	4196.8	4217.7	4198.9	4194.8	4198.9	4188.5
17.5°	4242.6	4246.8	4255.1	4269.7	4284.3	4321.8	4288.4	4278.0	4278.0	4257.2
20°	4319.7	4325.9	4338.4	4363.4	4382.1	4417.5	4384.2	4369.6	4363.4	4336.3
22.5°	4400.9	4411.3	4430.0	4463.3	4496.6	4529.9	4496.6	4471.6	4452.9	4417.5
25°	4494.5	4507.0	4536.2	4590.3	4636.1	4684.0	4644.4	4594.5	4557.0	4507.0
27.5°	4627.8	4642.3	4677.7	4744.3	4802.6	4844.3	4806.8	4742.3	4690.2	4629.9
30°	4815.1	4829.7	4871.3	4942.1	4981.7	5008.7	4983.8	4933.8	4871.3	4802.6
32.5°	5056.6	5075.4	5121.1	5187.8	5196.1	5200.3	5191.9	5166.9	5121.1	5037.9
35°	5362.6	5383.5	5435.5	5489.6	5481.3	5489.6	5477.1	5468.8	5435.5	5339.7
37.5°	5737.4	5762.3	5816.5	5858.1	5837.3	5826.9	5829.0	5831.0	5812.3	5706.1
40°	6172.4	6205.8	6245.3	6289.0	6253.6	6222.4	6243.2	6259.9	6243.2	6135.0
42.5°	6620.0	6667.9	6709.5	6772.0	6742.8	6703.3	6732.4	6751.2	6715.8	6599.2
45°	7117.6	7163.4	7217.5	7311.2	7290.4	7248.7	7290.4	7294.5	7234.1	7096.7
47.5°	7631.8	7679.6	7760.8	7885.7	7877.4	7831.6	7885.7	7856.6	7779.6	7615.1
50°	8118.9	8185.5	8310.4	8485.3	8501.9	8445.7	8518.6	8462.4	8333.3	8127.2
52.5°	8576.9	8647.7	8845.4	9082.8	9143.1	9070.3	9168.1	9070.3	8876.7	8612.3
55°	9057.8	9136.9	9372.1	9682.3	9803.0	9748.9	9840.5	9692.7	9417.9	9097.3
57.5°	9624.0	9671.9	9952.9	10321.4	10525.4	10537.9	10579.5	10329.7	9996.7	9632.3
60°	10238.1	10304.8	10610.8	11052.1	11374.8	11478.9	11435.2	11064.6	10677.4	10259.0
62.5°	11025.0	11097.9	11464.3	11993.1	12503.1	12761.2	12590.5	12053.4	11574.6	11072.9
65°	11676.6	11757.8	12419.8	13362.9	14291.3	14809.7	14380.9	13392.0	12530.2	11822.4
67.5°	11204.1	11304.0	12342.8	14074.8	16383.5	17930.3	16462.6	14287.2	12598.9	11639.2
70°	9792.6	9886.3	11097.9	13215.1	16972.7	20361.8	17326.6	13604.4	11137.5	10063.3
72.5°	6501.4	6803.2	8029.4	10569.1	15155.3	18842.1	15305.2	10354.7	7448.6	6486.8
75°	2156.7	2398.2	3235.1	5479.2	10150.7	14091.5	9663.6	4848.4	2562.7	1844.4
77.5°	543.3	626.6	863.9	1567.6	4049.0	8023.1	3645.2	1280.3	697.4	487.1
80°	264.4	291.4	416.4	522.5	1013.8	2550.2	951.4	491.3	328.9	254.0
82.5°	145.7	147.8	235.2	295.6	376.8	659.9	391.4	287.3	189.4	154.1
85°	89.5	87.4	124.9	158.2	158.2	235.2	187.4	158.2	108.3	95.8
87.5°	35.4	35.4	45.8	50.0	43.7	60.4	47.9	52.0	41.6	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3972.0
3992.8
4024.1
4061.5
4096.9
4132.3
4188.5
4257.2
4336.3
4415.4
4504.9
4627.8
4802.6
5040.0
5339.7
5706.1
6135.0
6607.5
7111.3
7604.7
8123.1
8587.3
9053.6
9582.4
10192.3
10985.5
11705.8
11495.5
9919.6
6276.5
1744.5
435.1
233.2
154.1
99.9
41.6
0.0

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