

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: P950689

Luminaire Tested: **GALN-SB5A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950689
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-SB5A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20635 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

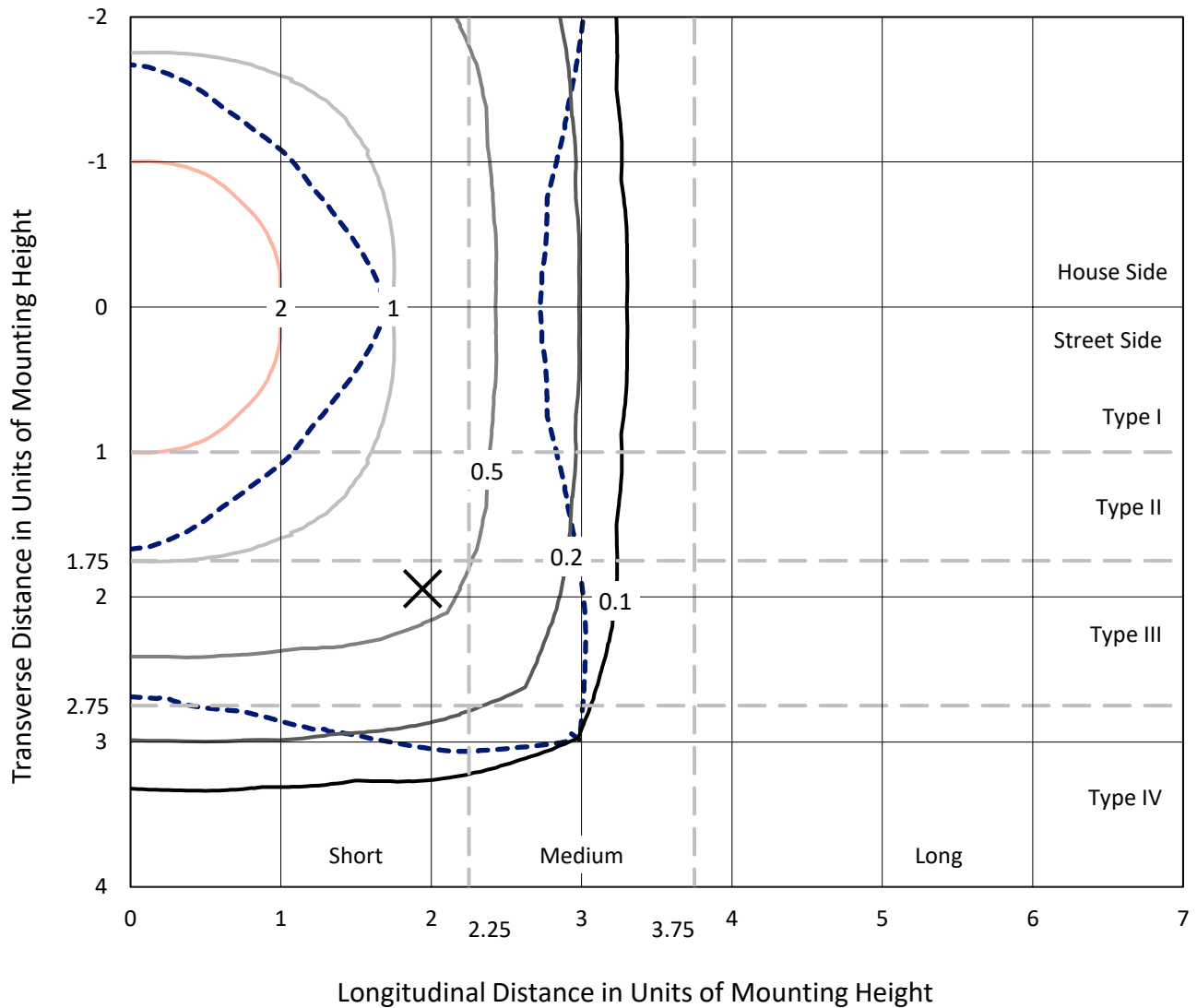
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950689
 CATALOG NUMBER: GALN-SB5A-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

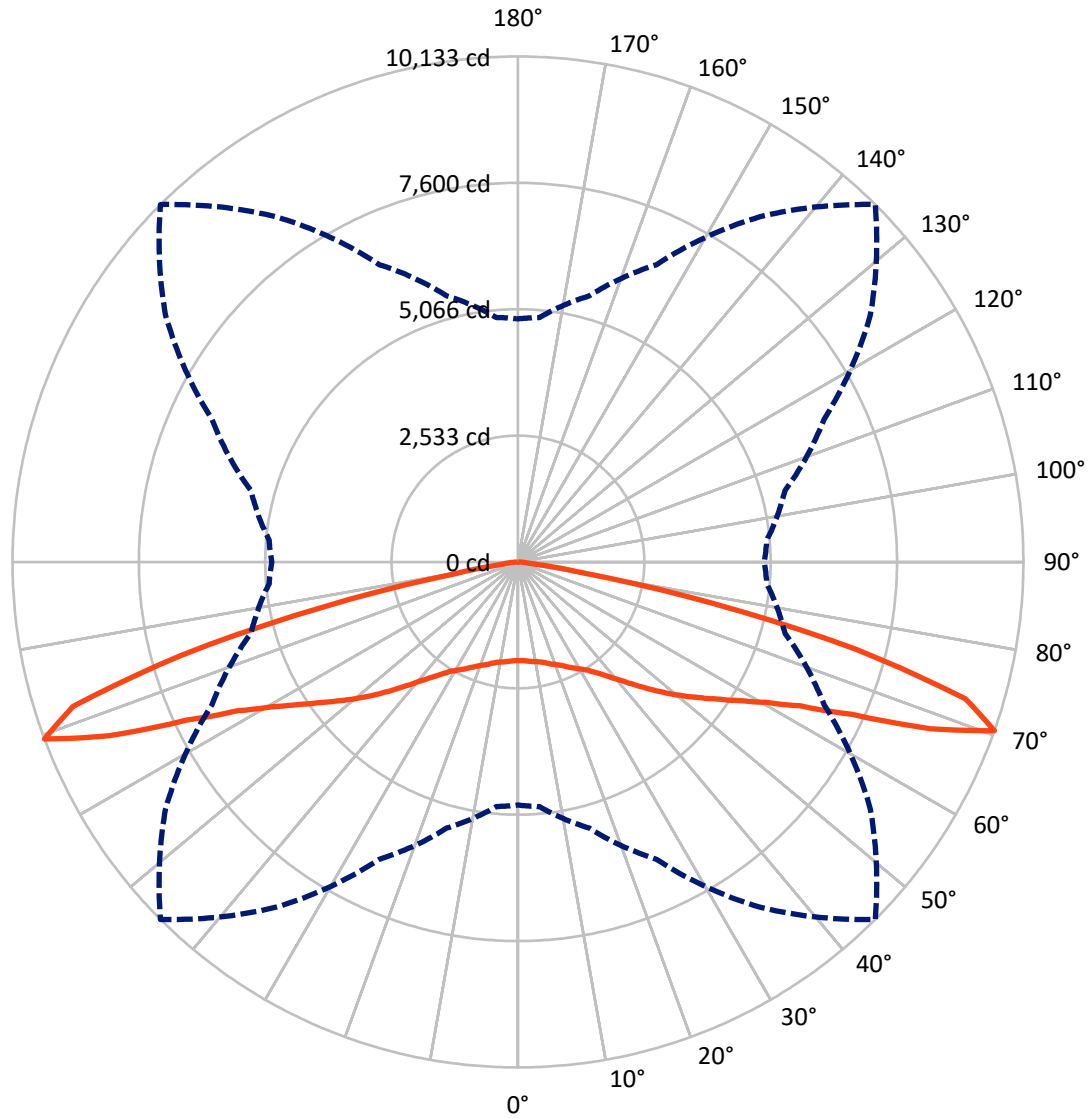
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

REPORT NUMBER: P950689
CATALOG NUMBER: GALN-SB5A-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P950689

CATALOG NUMBER: GALN-SB5A-827-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10317.5	0.0	10317.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10317.5	0.0	10317.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20635.0	0.0	20635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	0.9
10°-20°	595.5	2.9
20°-30°	1064.2	5.2
30°-40°	1725.0	8.4
40°-50°	2809.7	13.6
50°-60°	4283.9	20.8
60°-70°	6373.0	30.9
70°-80°	3473.5	16.8
80°-90°	118.3	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°	20635.0	100.0
0°-180°	20635.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950689

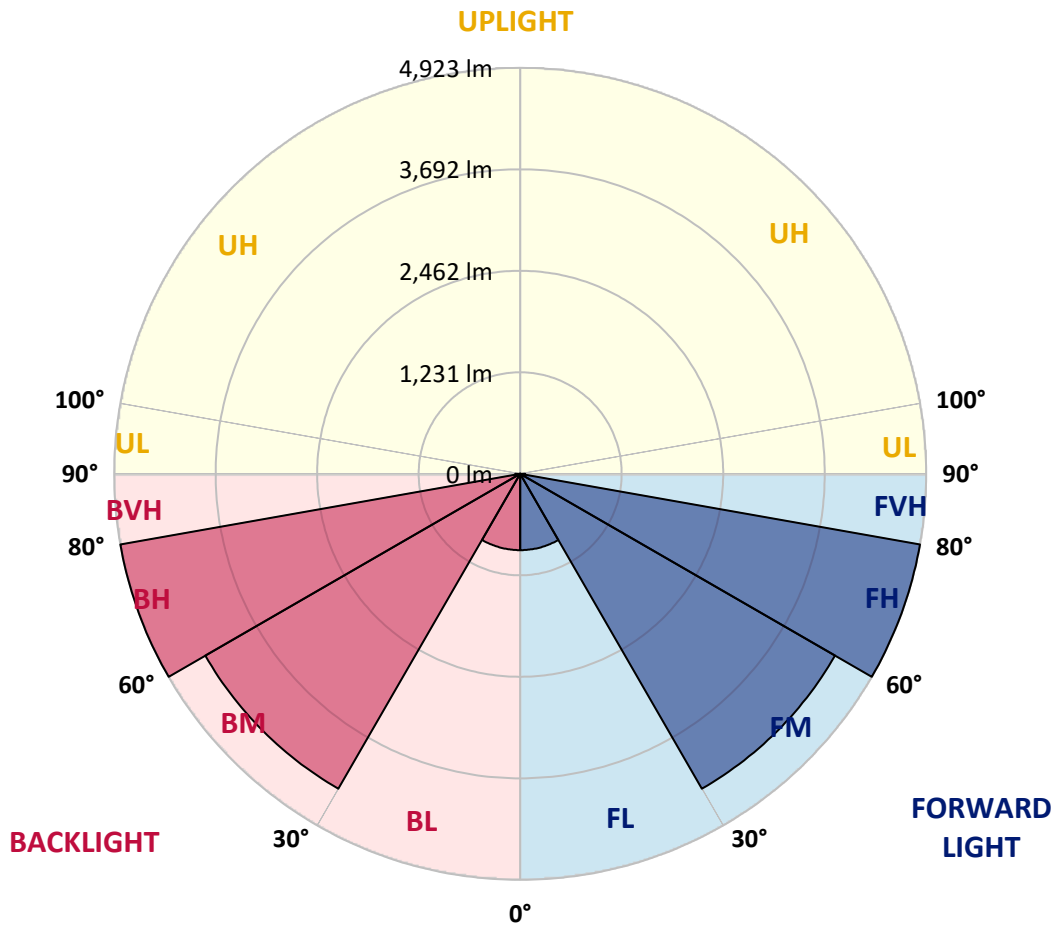
CATALOG NUMBER: GALN-SB5A-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.8	4.5			
FM (30°-60°)	4409.3	21.4			
FH (60°-80°)	4923.3	23.9			G2/5000
FVH (80°-90°)	59.1	0.3			G1/100
BL (0°-30°)	925.8	4.5	B2/1000		
BM (30°-60°)	4409.3	21.4	B3/5000		
BH (60°-80°)	4923.3	23.9	B4/5000		G2/5000
BVH (80°-90°)	59.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P950689

CATALOG NUMBER: GALN-SB5A-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6
2.5°	1985.9	1988.0	1983.9	1981.8	1979.7	1976.6	1977.7	1982.8	1987.0	1985.9
5°	2002.5	2004.6	2001.5	2000.4	1996.3	1995.3	1995.3	2000.4	2003.6	2001.5
7.5°	2021.2	2024.3	2019.1	2018.1	2016.0	2013.9	2012.9	2018.1	2021.2	2021.2
10°	2038.8	2041.9	2037.7	2034.6	2032.6	2032.6	2030.5	2034.6	2039.8	2038.8
12.5°	2057.4	2059.5	2055.4	2053.3	2053.3	2056.4	2053.3	2055.4	2059.5	2057.4
15°	2080.2	2081.3	2080.2	2083.3	2088.5	2098.9	2089.5	2087.5	2089.5	2084.4
17.5°	2111.3	2113.4	2117.5	2124.8	2132.0	2150.7	2134.1	2128.9	2128.9	2118.5
20°	2149.6	2152.7	2158.9	2171.4	2180.7	2198.3	2181.7	2174.5	2171.4	2157.9
22.5°	2190.0	2195.2	2204.5	2221.1	2237.7	2254.3	2237.7	2225.3	2215.9	2198.3
25°	2236.6	2242.9	2257.4	2284.3	2307.1	2330.9	2311.2	2286.4	2267.7	2242.9
27.5°	2302.9	2310.2	2327.8	2361.0	2390.0	2410.7	2392.0	2359.9	2334.0	2304.0
30°	2396.2	2403.4	2424.2	2459.4	2479.1	2492.5	2480.1	2455.2	2424.2	2390.0
32.5°	2516.4	2525.7	2548.5	2581.6	2585.8	2587.8	2583.7	2571.3	2548.5	2507.0
35°	2668.6	2679.0	2704.9	2731.8	2727.7	2731.8	2725.6	2721.5	2704.9	2657.2
37.5°	2855.1	2867.5	2894.5	2915.2	2904.8	2899.7	2900.7	2901.7	2892.4	2839.6
40°	3071.6	3088.2	3107.9	3129.6	3112.0	3096.5	3106.9	3115.1	3106.9	3053.0
42.5°	3294.4	3318.2	3338.9	3370.0	3355.5	3335.8	3350.3	3359.6	3342.0	3284.0
45°	3542.0	3564.8	3591.7	3638.3	3627.9	3607.2	3627.9	3630.0	3600.0	3531.6
47.5°	3797.8	3821.7	3862.1	3924.2	3920.1	3897.3	3924.2	3909.7	3871.4	3789.6
50°	4040.3	4073.4	4135.6	4222.6	4230.9	4202.9	4239.2	4211.2	4147.0	4044.4
52.5°	4268.2	4303.4	4401.8	4519.9	4550.0	4513.7	4562.4	4513.7	4417.4	4285.8
55°	4507.5	4546.8	4663.9	4818.3	4878.4	4851.4	4897.0	4823.4	4686.7	4527.2
57.5°	4789.3	4813.1	4952.9	5136.3	5237.8	5244.1	5264.8	5140.5	4974.7	4793.4
60°	5094.9	5128.0	5280.3	5499.9	5660.5	5712.3	5690.6	5506.1	5313.5	5105.2
62.5°	5486.5	5522.7	5705.1	5968.2	6222.0	6350.5	6265.5	5998.2	5760.0	5510.3
65°	5810.7	5851.1	6180.6	6649.9	7111.9	7369.8	7156.4	6664.4	6235.5	5883.2
67.5°	5575.6	5625.3	6142.2	7004.2	8153.0	8922.8	8192.4	7109.8	6269.7	5792.1
70°	4873.2	4919.8	5522.7	6576.3	8446.2	10132.8	8622.3	6770.0	5542.4	5007.9
72.5°	3235.3	3385.5	3995.7	5259.6	7541.8	9376.5	7616.4	5152.9	3706.7	3228.1
75°	1073.3	1193.4	1609.9	2726.7	5051.4	7012.4	4808.9	2412.8	1275.3	917.9
77.5°	270.4	311.8	429.9	780.1	2015.0	3992.6	1814.0	637.1	347.0	242.4
80°	131.6	145.0	207.2	260.0	504.5	1269.1	473.4	244.5	163.7	126.4
82.5°	72.5	73.6	117.1	147.1	187.5	328.4	194.8	143.0	94.3	76.7
85°	44.5	43.5	62.2	78.7	78.7	117.1	93.2	78.7	53.9	47.7
87.5°	17.6	17.6	22.8	24.9	21.8	30.0	23.8	25.9	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1976.6
1987.0
2002.5
2021.2
2038.8
2056.4
2084.4
2118.5
2157.9
2197.3
2241.8
2302.9
2390.0
2508.1
2657.2
2839.6
3053.0
3288.1
3538.9
3784.4
4042.3
4273.4
4505.4
4768.5
5072.1
5466.8
5825.2
5720.6
4936.4
3123.4
868.1
216.5
116.0
76.7
49.7
20.7
0.0

OF REPORT)