

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: P949618

Luminaire Tested: **GALN-SB4B-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949618
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-SB4B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 20552 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

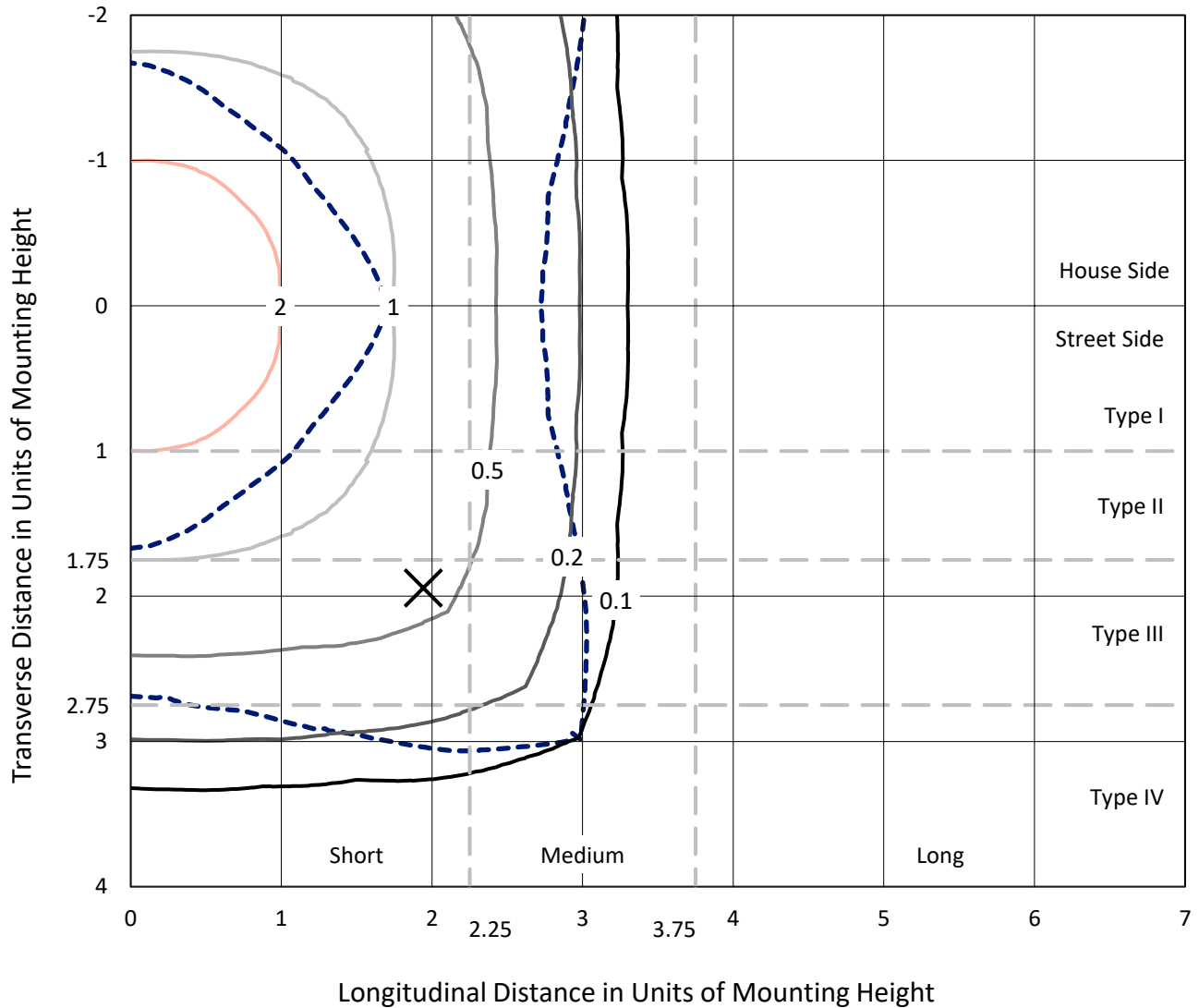
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

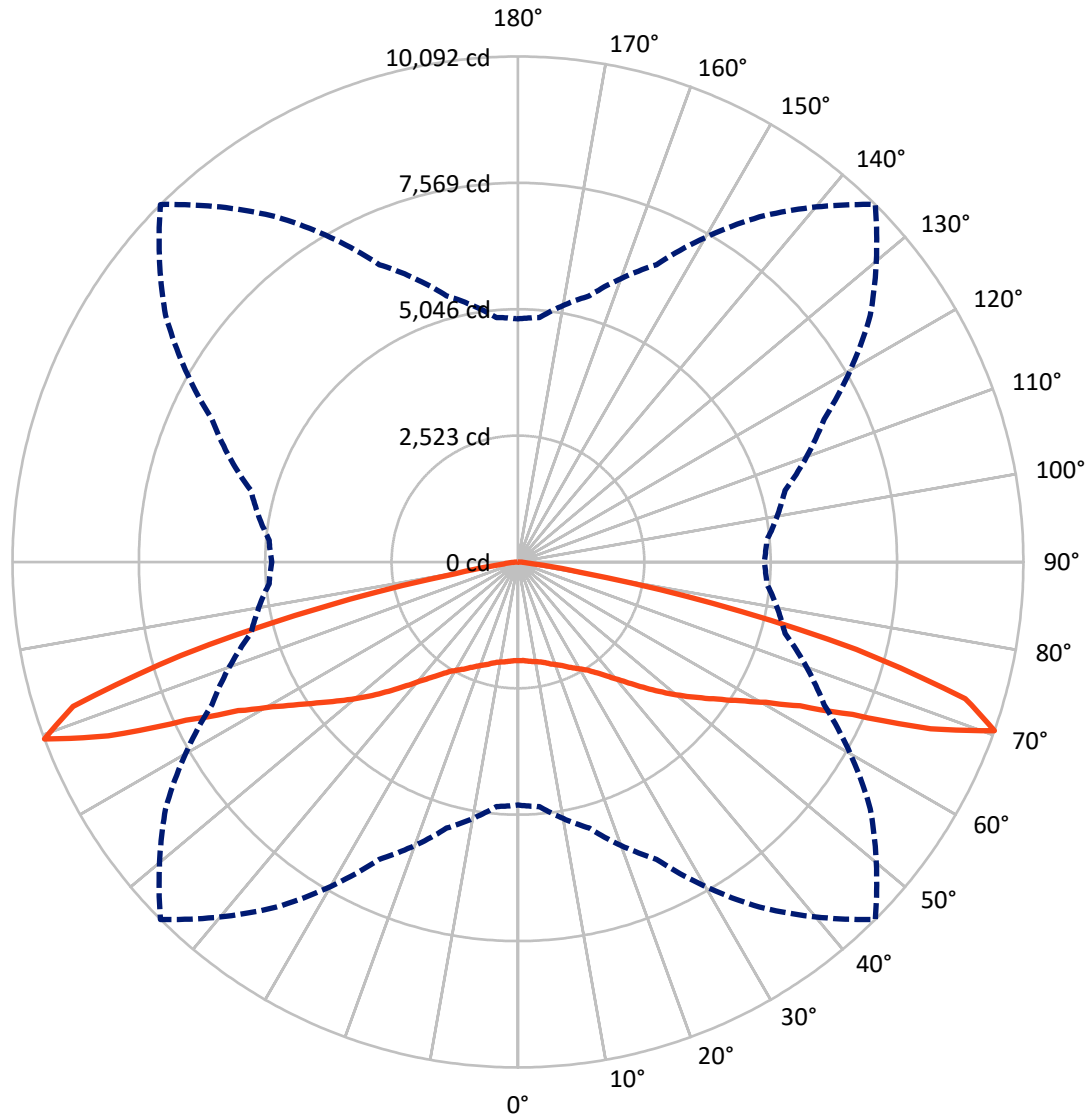
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P949618
CATALOG NUMBER: GALN-SB4B-827-U-5MQ

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	10276.0	0.0	10276.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10276.0	0.0	10276.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20552.0	0.0	20552.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	0.9
10°-20°	593.1	2.9
20°-30°	1059.9	5.2
30°-40°	1718.0	8.4
40°-50°	2798.4	13.6
50°-60°	4266.6	20.8
60°-70°	6347.4	30.9
70°-80°	3459.5	16.8
80°-90°	117.8	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°	20552.0	100.0
0°-180°	20552.0	100.0



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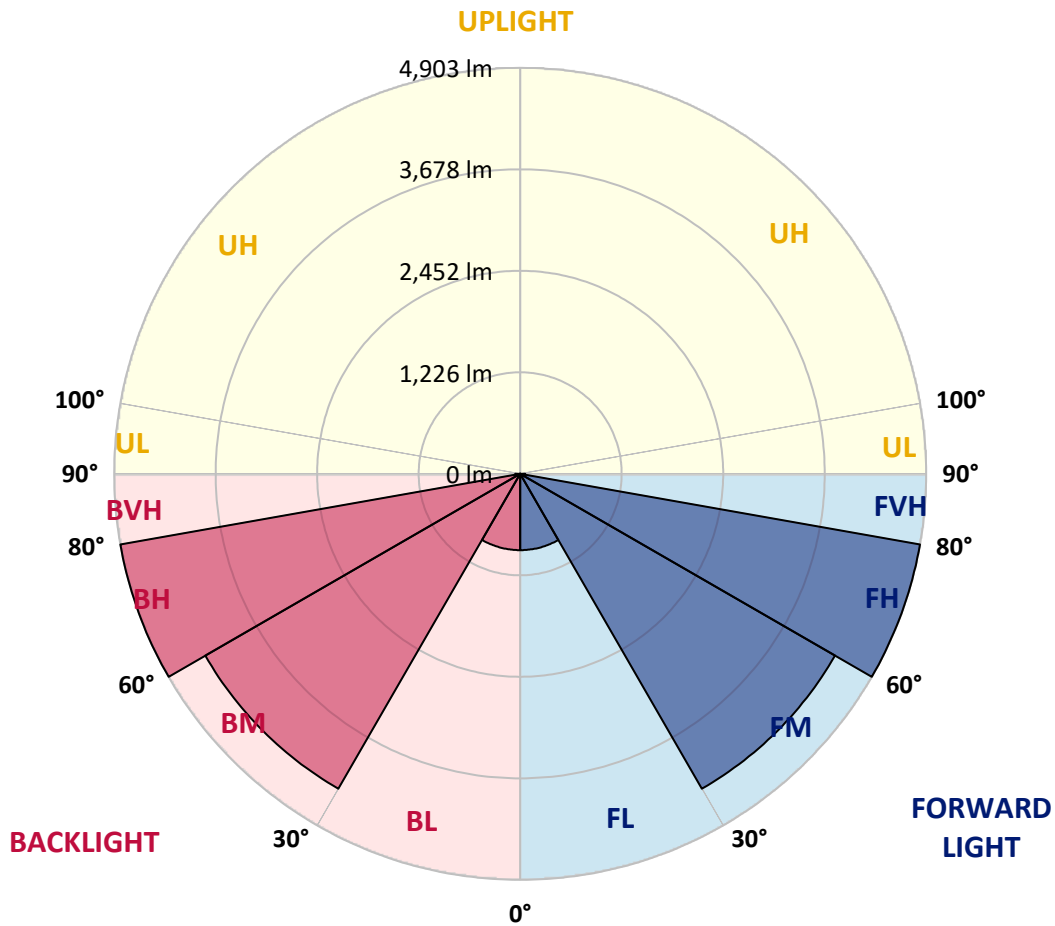
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.1	4.5			
FM (30°-60°)	4391.5	21.4			
FH (60°-80°)	4903.5	23.9			G2/5000
FVH (80°-90°)	58.9	0.3			G1/100
BL (0°-30°)	922.1	4.5	B2/1000		
BM (30°-60°)	4391.5	21.4	B3/5000		
BH (60°-80°)	4903.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	58.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7	1968.7
2.5°	1978.0	1980.0	1975.9	1973.8	1971.8	1968.7	1969.7	1974.9	1979.0	1978.0
5°	1994.5	1996.5	1993.4	1992.4	1988.3	1987.2	1987.2	1992.4	1995.5	1993.4
7.5°	2013.0	2016.1	2011.0	2009.9	2007.9	2005.8	2004.8	2009.9	2013.0	2013.0
10°	2030.6	2033.7	2029.5	2026.4	2024.4	2024.4	2022.3	2026.4	2031.6	2030.6
12.5°	2049.1	2051.2	2047.1	2045.0	2045.0	2048.1	2045.0	2047.1	2051.2	2049.1
15°	2071.8	2072.9	2071.8	2074.9	2080.1	2090.4	2081.1	2079.1	2081.1	2076.0
17.5°	2102.8	2104.9	2109.0	2116.2	2123.4	2142.0	2125.5	2120.3	2120.3	2110.0
20°	2141.0	2144.1	2150.3	2162.6	2171.9	2189.5	2173.0	2165.7	2162.6	2149.2
22.5°	2181.2	2186.4	2195.7	2212.2	2228.7	2245.2	2228.7	2216.3	2207.0	2189.5
25°	2227.6	2233.8	2248.3	2275.1	2297.8	2321.5	2301.9	2277.2	2258.6	2233.8
27.5°	2293.7	2300.9	2318.4	2351.5	2380.4	2401.0	2382.4	2350.4	2324.6	2294.7
30°	2386.5	2393.8	2414.4	2449.5	2469.1	2482.5	2470.1	2445.4	2414.4	2380.4
32.5°	2506.2	2515.5	2538.2	2571.2	2575.4	2577.4	2573.3	2560.9	2538.2	2496.9
35°	2657.9	2668.2	2694.0	2720.8	2716.7	2720.8	2714.7	2710.5	2694.0	2646.6
37.5°	2843.6	2856.0	2882.8	2903.5	2893.2	2888.0	2889.0	2890.1	2880.8	2828.2
40°	3059.3	3075.8	3095.4	3117.1	3099.5	3084.0	3094.4	3102.6	3094.4	3040.7
42.5°	3281.1	3304.8	3325.5	3356.4	3342.0	3322.4	3336.8	3346.1	3328.6	3270.8
45°	3527.7	3550.4	3577.2	3623.7	3613.4	3592.7	3613.4	3615.4	3585.5	3517.4
47.5°	3782.6	3806.3	3846.5	3908.4	3904.3	3881.6	3908.4	3894.0	3855.8	3774.3
50°	4024.0	4057.0	4118.9	4205.6	4213.9	4186.0	4222.1	4194.3	4130.3	4028.1
52.5°	4251.0	4286.1	4384.1	4501.7	4531.7	4495.5	4544.0	4495.5	4399.6	4268.5
55°	4489.3	4528.6	4645.2	4798.9	4858.7	4831.9	4877.3	4804.0	4667.9	4509.0
57.5°	4770.0	4793.7	4933.0	5115.7	5216.8	5223.0	5243.6	5119.8	4954.7	4774.1
60°	5074.4	5107.4	5259.1	5477.8	5637.7	5689.3	5667.7	5484.0	5292.1	5084.7
62.5°	5464.4	5500.5	5682.1	5944.2	6197.0	6324.9	6240.3	5974.1	5736.8	5488.1
65°	5787.3	5827.6	6155.7	6623.1	7083.3	7340.2	7127.7	6637.6	6210.4	5859.6
67.5°	5553.1	5602.7	6117.5	6976.0	8120.2	8886.9	8159.5	7081.2	6244.4	5768.8
70°	4853.6	4900.0	5500.5	6549.8	8412.2	10092.0	8587.6	6742.8	5520.1	4987.7
72.5°	3222.3	3371.9	3979.6	5238.4	7511.5	9338.8	7585.8	5132.2	3691.8	3215.1
75°	1068.9	1188.6	1603.4	2715.7	5031.0	6984.2	4789.6	2403.1	1270.1	914.2
77.5°	269.3	310.6	428.2	776.9	2006.8	3976.5	1806.7	634.6	345.7	241.4
80°	131.0	144.5	206.4	259.0	502.5	1264.0	471.5	243.5	163.0	125.9
82.5°	72.2	73.3	116.6	146.5	186.8	327.1	194.0	142.4	93.9	76.4
85°	44.4	43.3	61.9	78.4	78.4	116.6	92.9	78.4	53.7	47.5
87.5°	17.5	17.5	22.7	24.8	21.7	29.9	23.7	25.8	20.6	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1968.7
1979.0
1994.5
2013.0
2030.6
2048.1
2076.0
2110.0
2149.2
2188.4
2232.8
2293.7
2380.4
2498.0
2646.6
2828.2
3040.7
3274.9
3524.6
3769.2
4026.1
4256.2
4487.3
4749.4
5051.7
5444.8
5801.8
5697.6
4916.5
3110.9
864.6
215.6
115.6
76.4
49.5
20.6
0.0

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