

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: P948547

Luminaire Tested: **GALN-SB3C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948547
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-SB3C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20463 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

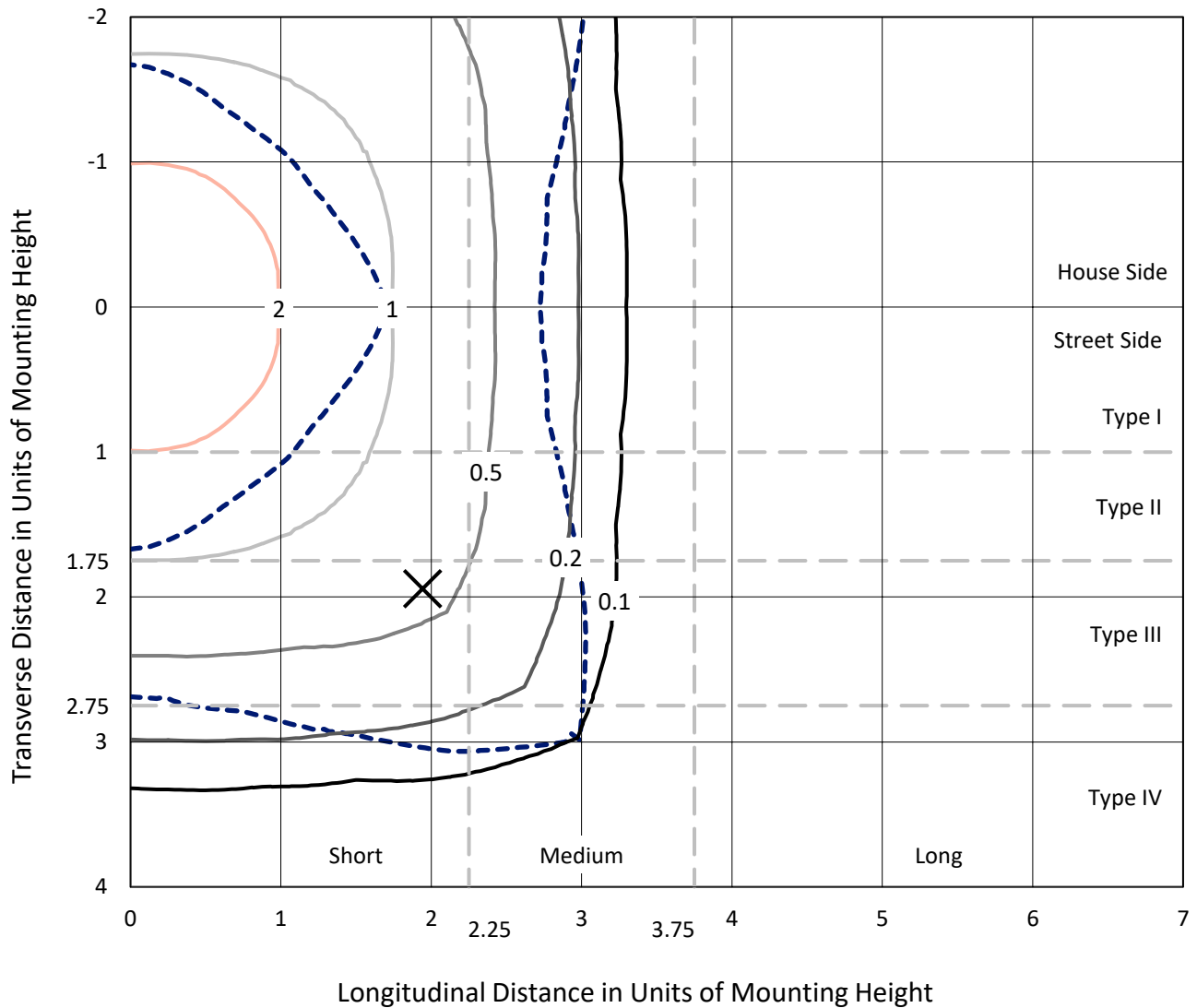
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

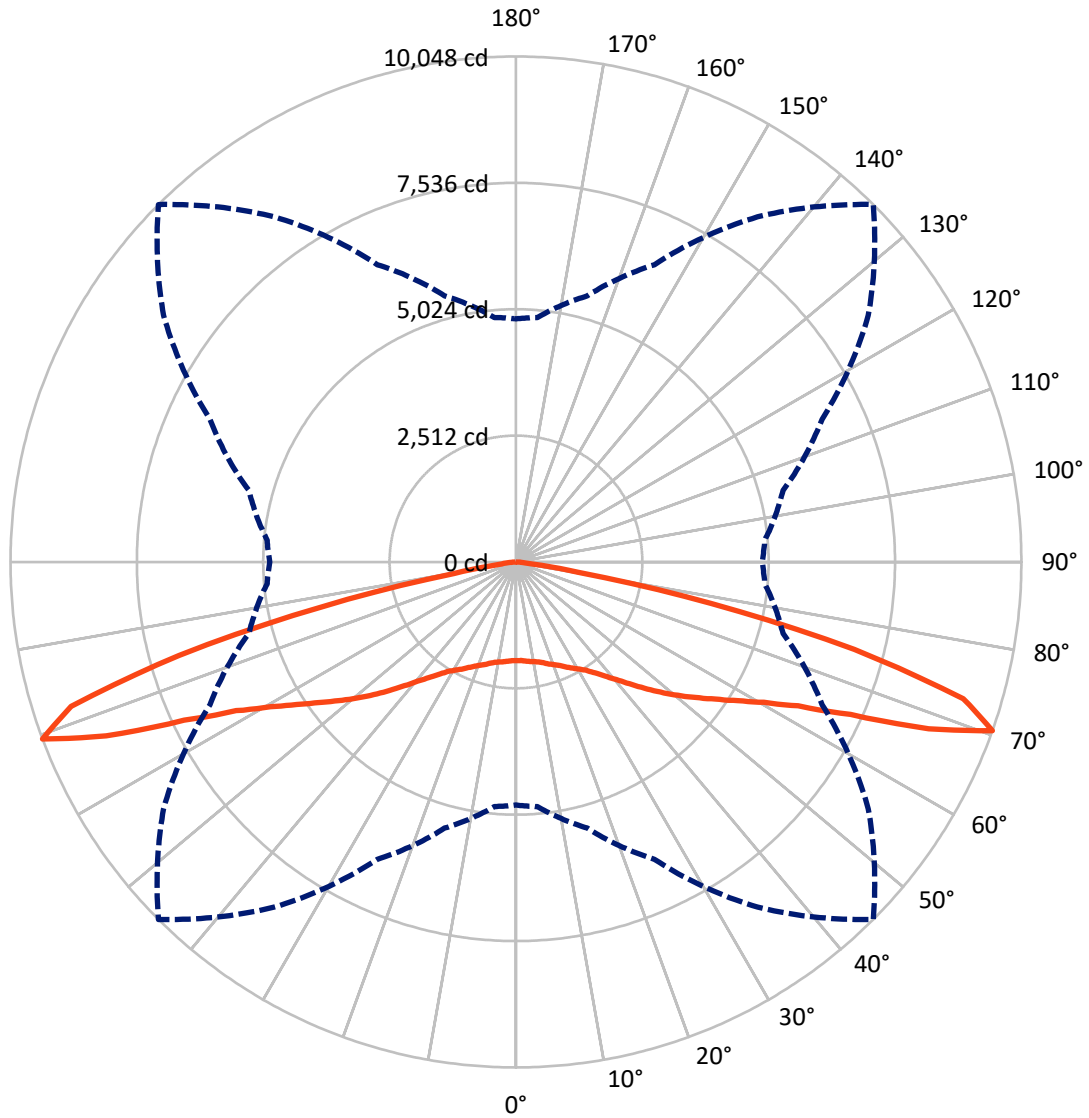
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	10231.5	0.0	10231.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10231.5	0.0	10231.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20463.0	0.0	20463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	0.9
10°-20°	590.5	2.9
20°-30°	1055.3	5.2
30°-40°	1710.6	8.4
40°-50°	2786.3	13.6
50°-60°	4248.2	20.8
60°-70°	6319.9	30.9
70°-80°	3444.6	16.8
80°-90°	117.3	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°	20463.0	100.0
0°-180°	20463.0	100.0

Coefficient of Utilization



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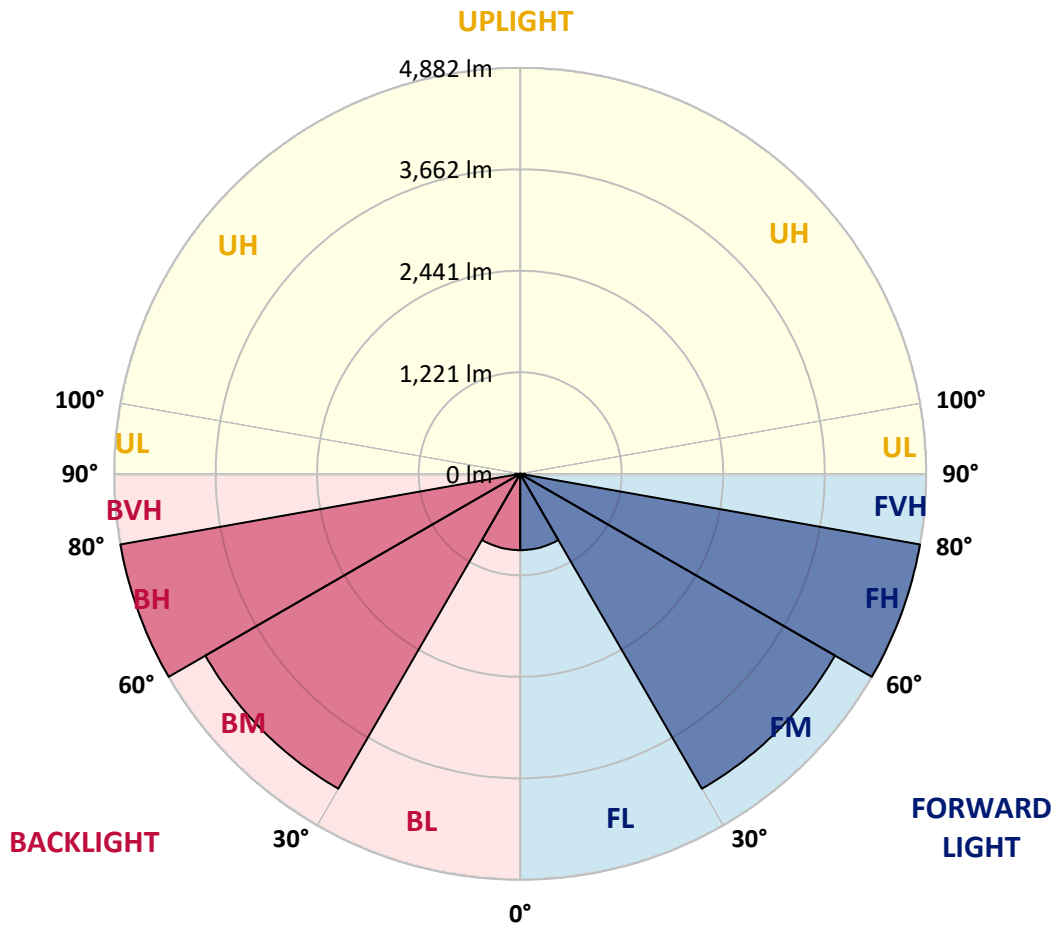
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.1	4.5			
FM (30°-60°)	4372.5	21.4			
FH (60°-80°)	4882.2	23.9			G2/5000
FVH (80°-90°)	58.6	0.3			G1/100
BL (0°-30°)	918.1	4.5	B2/1000		
BM (30°-60°)	4372.5	21.4	B3/5000		
BH (60°-80°)	4882.2	23.9	B4/5000		G2/5000
BVH (80°-90°)	58.6	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°	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1	1960.1
2.5°	1969.4	1971.4	1967.3	1965.3	1963.2	1960.1	1961.2	1966.3	1970.4	1969.4
5°	1985.8	1987.9	1984.8	1983.8	1979.7	1978.6	1978.6	1983.8	1986.9	1984.8
7.5°	2004.3	2007.4	2002.3	2001.2	1999.2	1997.1	1996.1	2001.2	2004.3	2004.3
10°	2021.8	2024.9	2020.8	2017.7	2015.6	2015.6	2013.6	2017.7	2022.8	2021.8
12.5°	2040.3	2042.3	2038.2	2036.2	2036.2	2039.2	2036.2	2038.2	2042.3	2040.3
15°	2062.9	2063.9	2062.9	2066.0	2071.1	2081.4	2072.1	2070.1	2072.1	2067.0
17.5°	2093.7	2095.8	2099.9	2107.1	2114.2	2132.7	2116.3	2111.2	2111.2	2100.9
20°	2131.7	2134.8	2141.0	2153.3	2162.5	2180.0	2163.6	2156.4	2153.3	2139.9
22.5°	2171.8	2176.9	2186.2	2202.6	2219.0	2235.5	2219.0	2206.7	2197.5	2180.0
25°	2218.0	2224.2	2238.5	2265.3	2287.9	2311.5	2292.0	2267.3	2248.8	2224.2
27.5°	2283.8	2290.9	2308.4	2341.3	2370.0	2390.6	2372.1	2340.3	2314.6	2284.8
30°	2376.2	2383.4	2403.9	2438.9	2458.4	2471.8	2459.4	2434.8	2403.9	2370.0
32.5°	2495.4	2504.6	2527.2	2560.1	2564.2	2566.3	2562.2	2549.8	2527.2	2486.1
35°	2646.4	2656.7	2682.4	2709.1	2705.0	2709.1	2702.9	2698.8	2682.4	2635.1
37.5°	2831.3	2843.6	2870.4	2890.9	2880.6	2875.5	2876.5	2877.5	2868.3	2815.9
40°	3046.0	3062.5	3082.0	3103.6	3086.1	3070.7	3081.0	3089.2	3081.0	3027.5
42.5°	3266.9	3290.5	3311.1	3341.9	3327.5	3308.0	3322.4	3331.6	3314.2	3256.6
45°	3512.4	3535.0	3561.7	3608.0	3597.7	3577.2	3597.7	3599.8	3570.0	3502.2
47.5°	3766.2	3789.8	3829.9	3891.5	3887.4	3864.8	3891.5	3877.1	3839.1	3758.0
50°	4006.6	4039.5	4101.1	4187.4	4195.6	4167.9	4203.8	4176.1	4112.4	4010.7
52.5°	4232.6	4267.5	4365.1	4482.2	4512.0	4476.1	4524.4	4476.1	4380.5	4250.1
55°	4469.9	4508.9	4625.0	4778.1	4837.7	4811.0	4856.2	4783.2	4647.6	4489.4
57.5°	4749.3	4773.0	4911.7	5093.5	5194.2	5200.3	5220.9	5097.6	4933.2	4753.5
60°	5052.4	5085.3	5236.3	5454.1	5613.3	5664.7	5643.1	5460.3	5269.2	5062.7
62.5°	5440.7	5476.7	5657.5	5918.4	6170.1	6297.5	6213.3	5948.2	5711.9	5464.4
65°	5762.3	5802.4	6129.0	6594.4	7052.6	7308.4	7096.8	6608.8	6183.5	5834.2
67.5°	5529.1	5578.4	6091.0	6945.8	8085.1	8848.4	8124.1	7050.6	6217.4	5743.8
70°	4832.6	4878.8	5476.7	6521.5	8375.8	10048.3	8550.5	6713.6	5496.2	4966.1
72.5°	3208.3	3357.3	3962.4	5215.7	7479.0	9298.4	7552.9	5109.9	3675.8	3201.2
75°	1064.3	1183.5	1596.5	2703.9	5009.3	6954.0	4768.9	2392.6	1264.6	910.2
77.5°	268.1	309.2	426.3	773.6	1998.2	3959.3	1798.9	631.8	344.2	240.4
80°	130.5	143.8	205.5	257.9	500.3	1258.5	469.5	242.4	162.3	125.3
82.5°	71.9	72.9	116.1	145.9	185.9	325.7	193.1	141.8	93.5	76.0
85°	44.2	43.1	61.6	78.1	78.1	116.1	92.5	78.1	53.4	47.3
87.5°	17.5	17.5	22.6	24.7	21.6	29.8	23.6	25.7	20.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1960.1
1970.4
1985.8
2004.3
2021.8
2039.2
2067.0
2100.9
2139.9
2179.0
2223.1
2283.8
2370.0
2487.2
2635.1
2815.9
3027.5
3260.7
3509.4
3752.8
4008.6
4237.7
4467.9
4728.8
5029.8
5421.2
5776.7
5672.9
4895.2
3097.4
860.9
214.7
115.1
76.0
49.3
20.5
0.0

OF REPORT)