

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: P949265

Luminaire Tested: **GALN-SB4A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16098 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

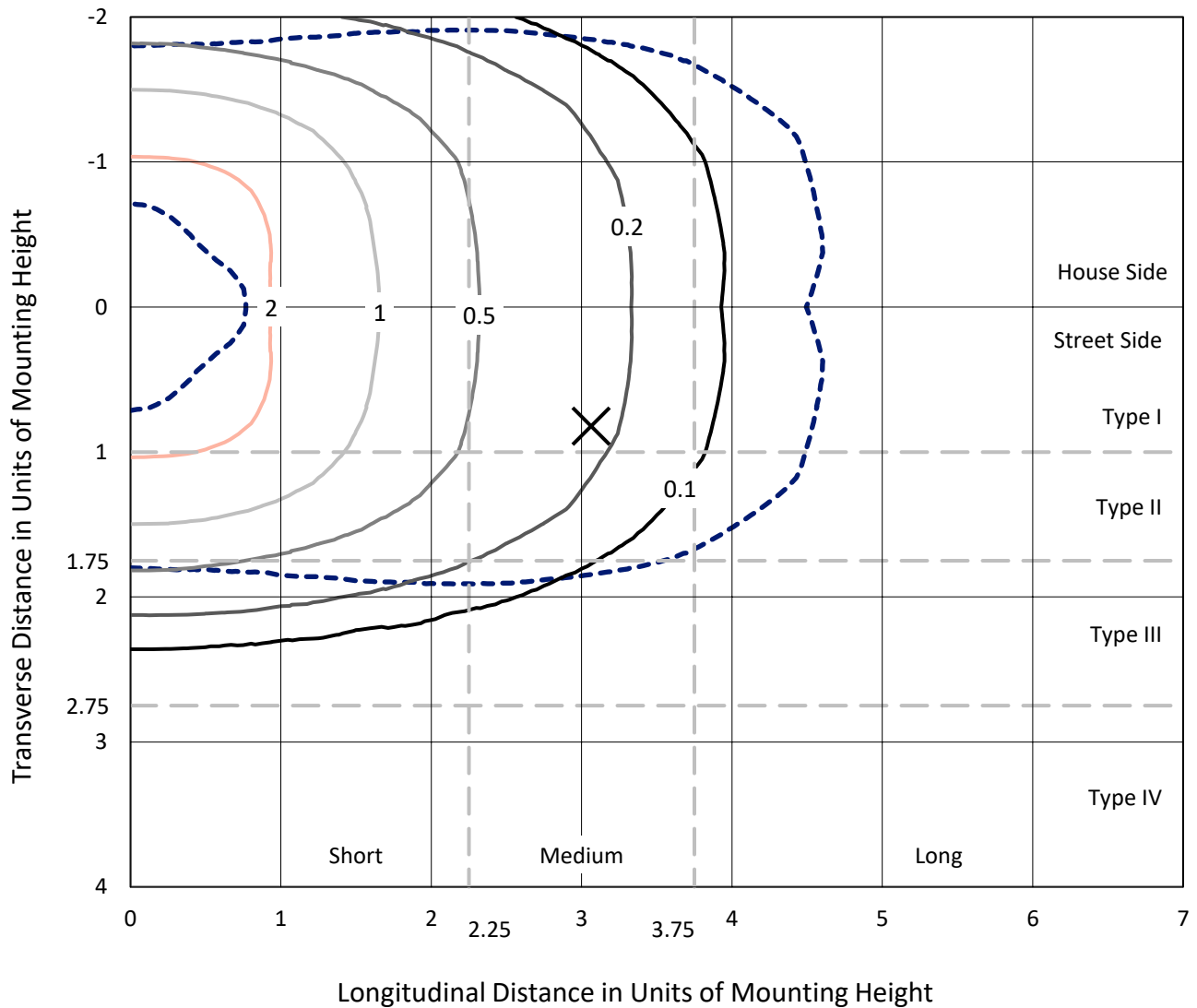
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

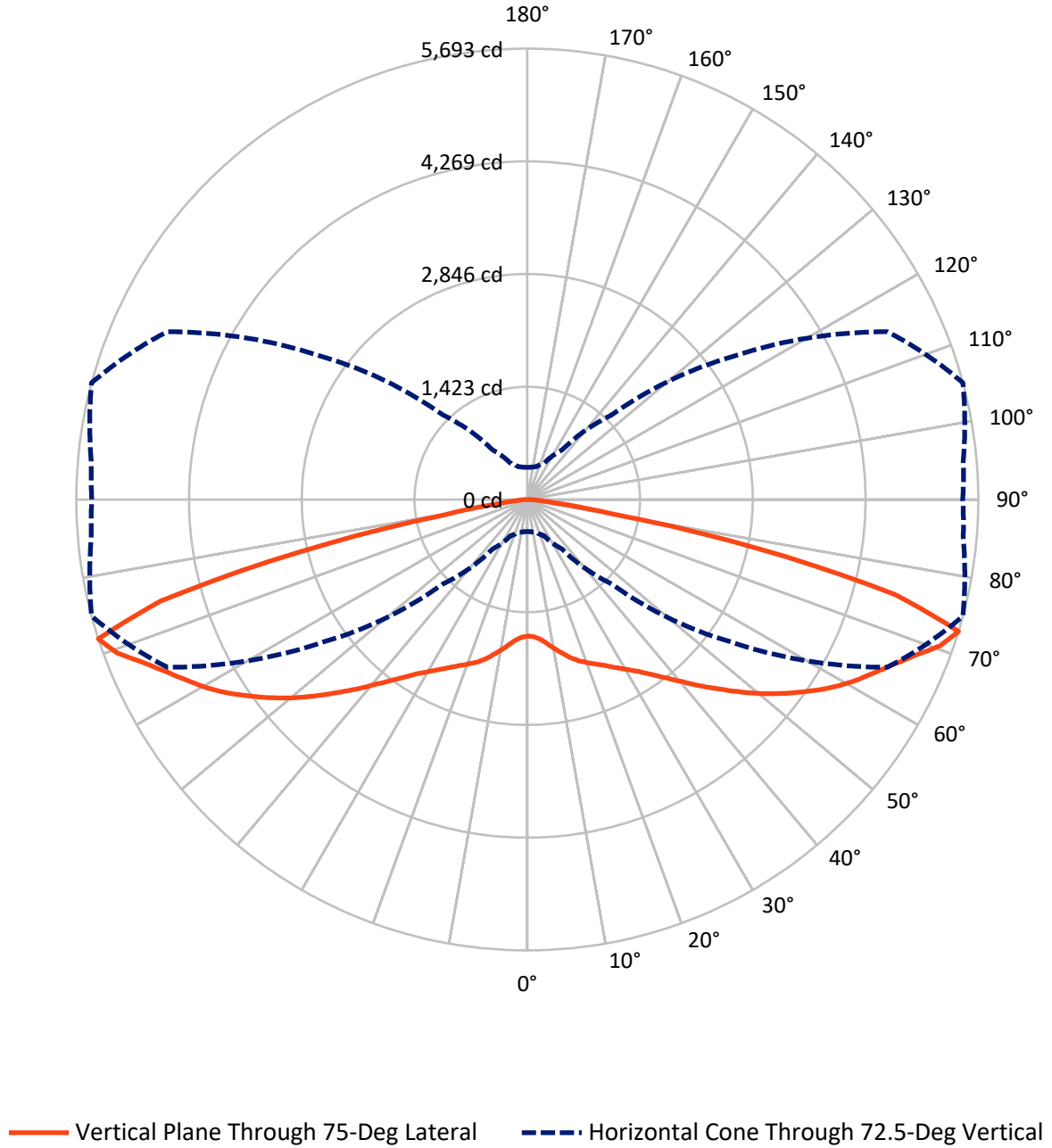
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8049.0	0.0	8049.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8049.0	0.0	8049.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16098.0	0.0	16098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.0
10°-20°	557.1	3.5
20°-30°	1076.5	6.7
30°-40°	1817.8	11.3
40°-50°	2882.8	17.9
50°-60°	3859.8	24.0
60°-70°	3673.2	22.8
70°-80°	1916.8	11.9
80°-90°	145.1	0.9
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°	16098.0	100.0
0°-180°	16098.0	100.0

Coefficient of Utilization



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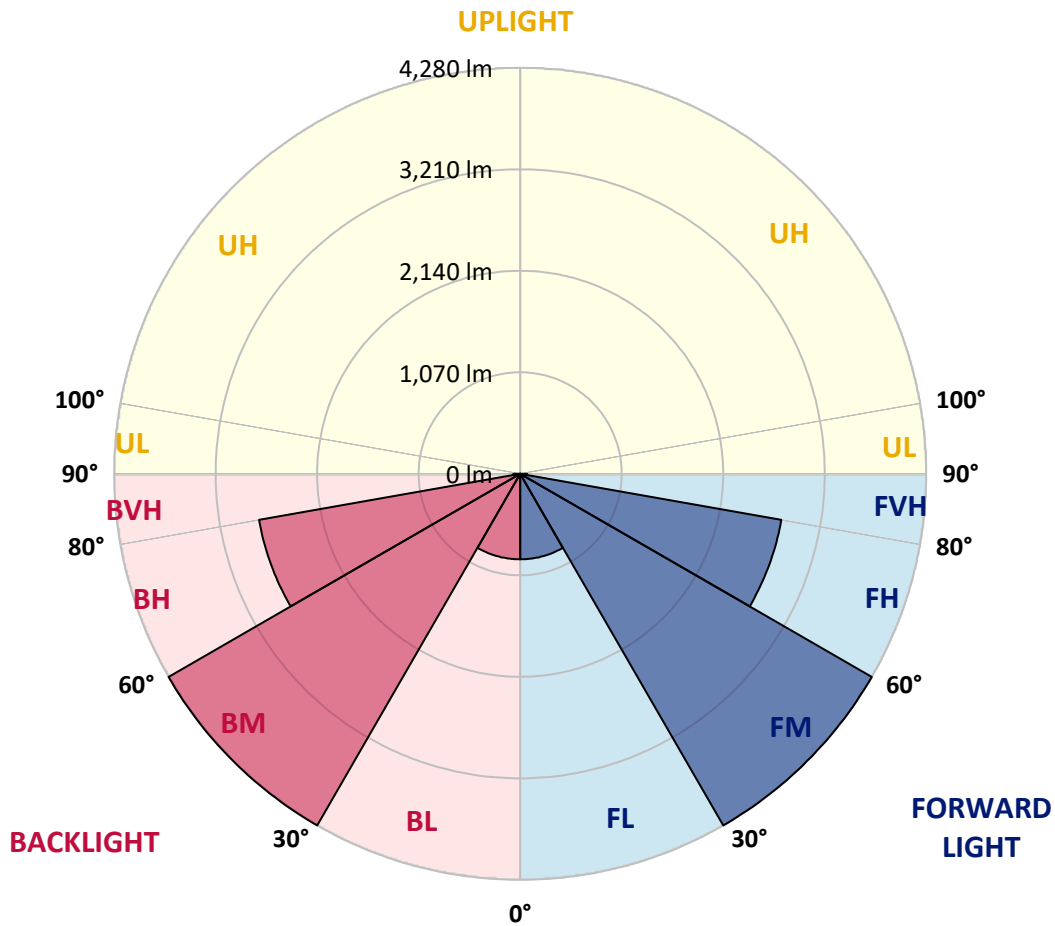
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.3	5.6			
FM (30°-60°)	4280.2	26.6			
FH (60°-80°)	2795.0	17.4			G2/5000
FVH (80°-90°)	72.5	0.5			G1/100
BL (0°-30°)	901.3	5.6	B2/1000		
BM (30°-60°)	4280.2	26.6	B3/5000		
BH (60°-80°)	2795.0	17.4	B4/5000		G4/5000
BVH (80°-90°)	72.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1724.4	1722.7	1724.4	1726.0	1725.2	1725.2	1729.3	1731.8	1736.7	1735.9
5°	1712.9	1712.1	1718.6	1726.0	1731.8	1741.6	1754.0	1763.0	1774.5	1777.0
7.5°	1707.1	1704.7	1716.2	1729.3	1747.4	1772.1	1795.9	1820.5	1840.3	1846.8
10°	1711.2	1712.1	1727.7	1752.3	1781.1	1815.6	1849.3	1891.2	1919.2	1925.8
12.5°	1730.1	1728.5	1754.8	1794.2	1833.7	1877.3	1916.7	1962.7	1993.2	2008.8
15°	1764.7	1761.4	1798.4	1856.7	1914.2	1965.2	1997.3	2040.8	2076.2	2095.9
17.5°	1805.8	1807.4	1855.9	1931.5	2007.1	2064.7	2095.1	2117.3	2144.4	2161.6
20°	1878.1	1881.4	1935.6	2025.2	2111.5	2177.3	2201.9	2193.7	2201.1	2214.2
22.5°	1975.1	1976.7	2037.5	2134.5	2224.9	2297.3	2313.7	2280.0	2259.5	2268.5
25°	2087.7	2098.4	2159.2	2258.6	2351.5	2420.5	2427.9	2377.0	2326.0	2328.5
27.5°	2224.9	2234.8	2296.4	2395.1	2489.6	2549.6	2548.8	2480.5	2405.8	2386.8
30°	2373.7	2384.4	2447.7	2549.6	2637.5	2690.1	2678.6	2597.3	2490.4	2455.1
32.5°	2550.4	2557.0	2621.1	2723.0	2804.4	2846.3	2822.5	2722.2	2589.0	2548.8
35°	2764.1	2774.0	2821.6	2917.8	2989.3	3023.8	2983.6	2865.2	2715.6	2670.4
37.5°	3008.2	3001.6	3055.9	3141.4	3200.5	3221.9	3166.9	3026.3	2860.3	2806.8
40°	3263.0	3259.7	3318.9	3401.1	3433.2	3446.3	3364.9	3211.2	3027.1	2969.6
42.5°	3494.0	3491.5	3571.2	3662.5	3701.1	3686.3	3583.6	3407.7	3220.3	3154.5
45°	3678.9	3675.6	3773.4	3901.6	3977.3	3952.6	3814.5	3624.7	3415.9	3347.7
47.5°	3821.1	3822.7	3927.9	4086.6	4218.9	4227.9	4050.4	3845.8	3631.2	3554.0
50°	3923.8	3928.8	4041.4	4217.3	4398.1	4477.8	4291.2	4072.6	3854.0	3766.9
52.5°	3949.3	3958.4	4094.0	4300.3	4513.2	4665.2	4536.2	4290.4	4065.2	3982.2
55°	3813.7	3831.8	4003.6	4293.7	4583.8	4788.5	4751.5	4511.5	4278.1	4192.6
57.5°	3502.2	3527.7	3728.2	4107.1	4568.2	4873.2	4918.4	4723.6	4491.0	4408.8
60°	3065.8	3096.2	3288.5	3701.9	4347.9	4904.4	5035.9	4929.9	4686.6	4606.9
62.5°	2407.4	2446.8	2677.0	3161.9	3882.7	4758.9	5136.2	5116.4	4862.5	4763.0
65°	1544.4	1586.3	1828.8	2401.6	3262.2	4313.4	5167.4	5298.1	5048.2	4909.3
67.5°	931.2	950.1	1070.1	1455.6	2384.4	3641.9	4902.7	5499.5	5265.2	5092.6
70°	595.9	606.6	678.1	854.8	1347.9	2657.3	4246.9	5537.3	5528.2	5280.8
72.5°	404.4	407.7	426.6	506.3	762.7	1509.9	3132.3	5012.9	5692.6	5523.3
75°	295.9	314.0	344.4	358.4	433.2	754.5	1795.1	3521.9	4797.5	4871.5
77.5°	220.3	221.1	263.0	279.5	309.0	401.9	759.5	1966.0	2978.6	3127.4
80°	186.6	176.7	175.9	225.2	232.6	250.7	339.5	678.9	1066.8	646.8
82.5°	155.3	144.7	130.7	175.9	158.6	153.7	147.1	276.2	339.5	166.8
85°	108.5	103.6	98.6	115.1	90.4	77.3	70.7	129.0	143.0	70.7
87.5°	46.8	48.5	49.3	51.0	37.8	27.1	27.1	36.2	36.2	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1724.4
1735.1
1777.0
1848.5
1932.3
2015.3
2103.3
2169.9
2224.1
2275.1
2332.6
2392.6
2459.2
2558.6
2677.0
2816.7
2988.5
3171.0
3363.3
3577.0
3793.2
4003.6
4216.4
4427.7
4624.1
4774.5
4926.6
5105.8
5279.2
5497.0
4692.3
2789.6
489.0
142.2
62.5
20.5
0.0

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