

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: P452424

Luminaire Tested: **GALN-SA3B-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13032 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

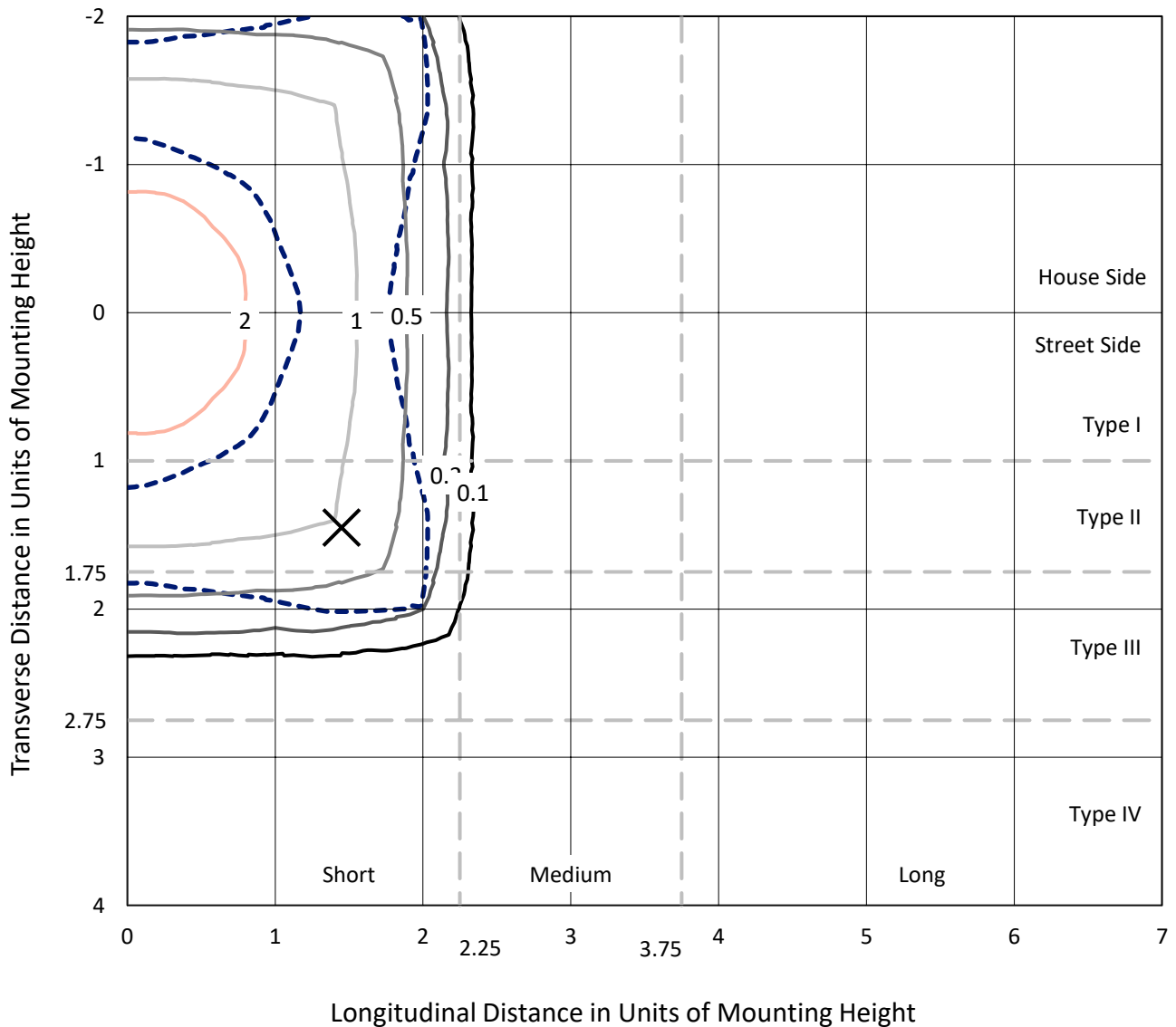
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

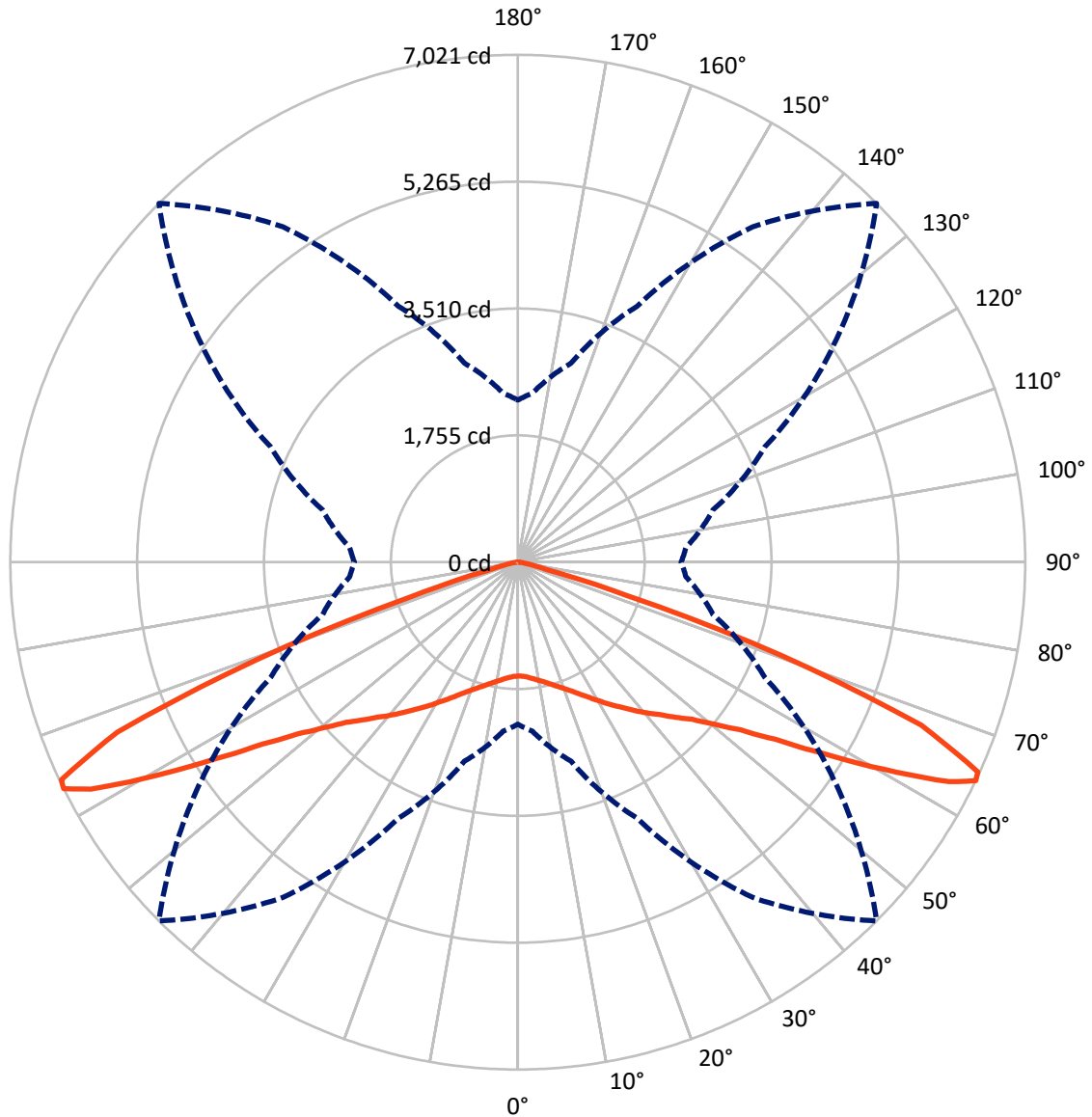
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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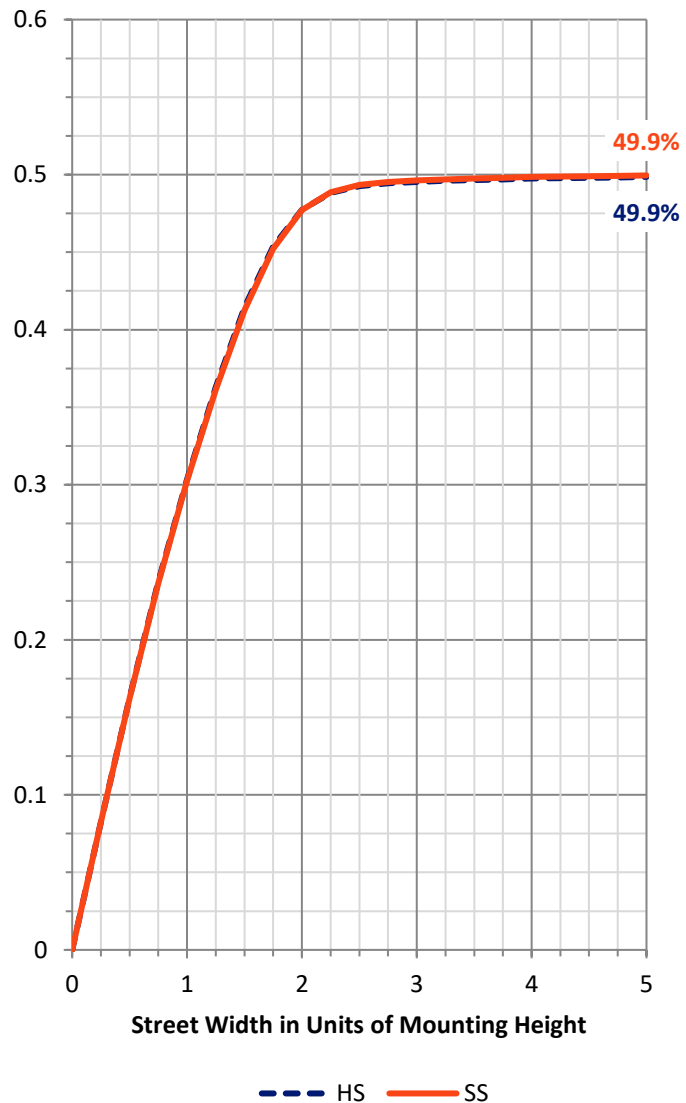
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6516.0	0.0	6516.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6516.0	0.0	6516.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13032.0	0.0	13032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	1.2
10°-20°	499.2	3.8
20°-30°	943.3	7.2
30°-40°	1562.2	12.0
40°-50°	2438.8	18.7
50°-60°	3770.3	28.9
60°-70°	3251.1	24.9
70°-80°	368.4	2.8
80°-90°	44.1	0.3
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°	13032.0	100.0
0°-180°	13032.0	100.0

Coefficient of Utilization



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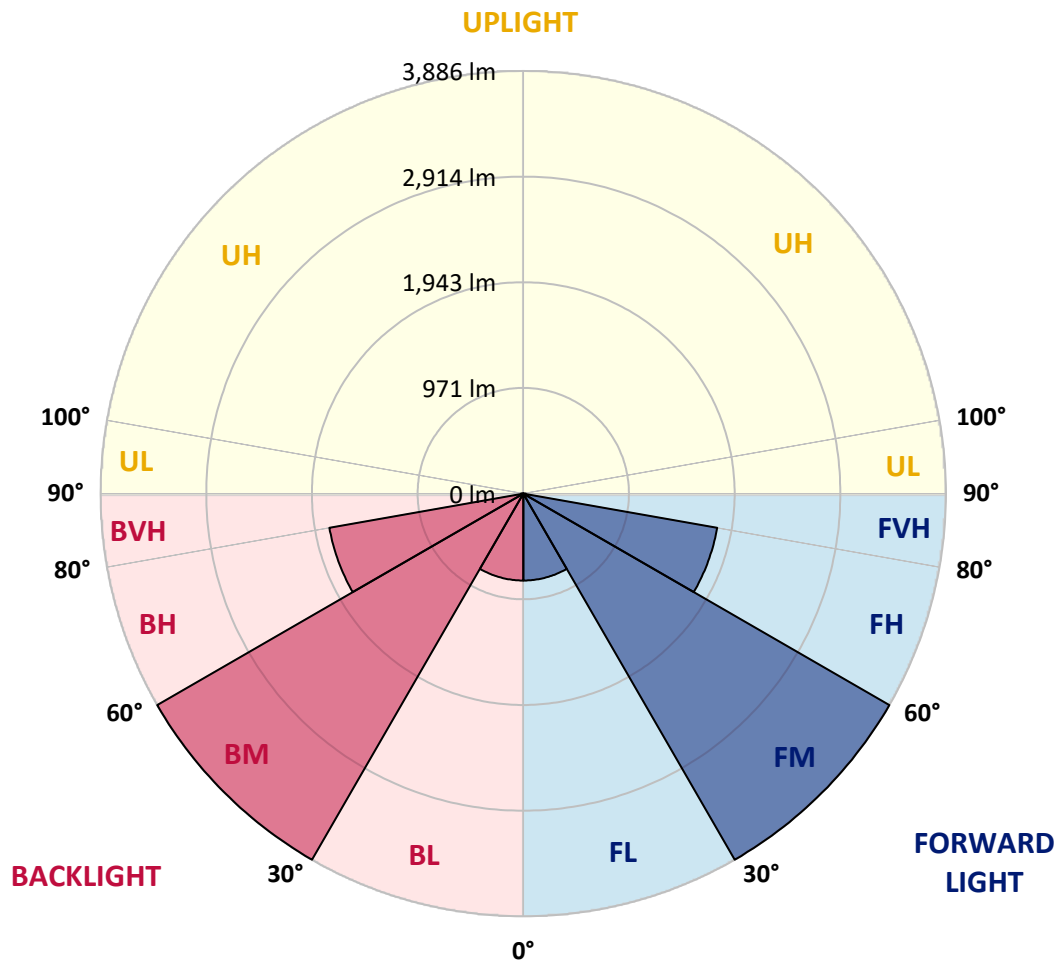
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.6	6.1			
FM (30°-60°)	3885.6	29.8			
FH (60°-80°)	1809.7	13.9			G2/5000
FVH (80°-90°)	22.1	0.2			G1/100
BL (0°-30°)	798.6	6.1	B2/1000		
BM (30°-60°)	3885.6	29.8	B3/5000		
BH (60°-80°)	1809.7	13.9	B3/2500		G2/5000
BVH (80°-90°)	22.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1	1575.1
2.5°	1581.3	1584.8	1582.0	1581.3	1580.7	1580.7	1580.7	1581.3	1584.1	1586.2	1584.8
5°	1601.4	1604.1	1602.7	1602.1	1601.4	1602.1	1600.7	1600.0	1602.1	1602.1	1601.4
7.5°	1626.2	1629.7	1628.3	1629.7	1630.4	1631.0	1627.6	1624.8	1624.1	1626.2	1624.8
10°	1660.0	1662.8	1663.5	1664.2	1665.6	1664.9	1660.7	1655.9	1655.2	1654.5	1653.8
12.5°	1698.0	1700.1	1700.8	1703.5	1705.6	1706.3	1701.5	1697.3	1690.4	1691.8	1689.0
15°	1740.8	1744.9	1744.2	1748.4	1753.9	1755.3	1750.5	1743.6	1737.3	1733.9	1731.8
17.5°	1793.3	1796.0	1794.6	1798.8	1805.7	1809.1	1805.0	1796.0	1789.8	1782.2	1778.1
20°	1855.4	1860.2	1861.6	1861.6	1867.8	1871.3	1865.0	1862.3	1852.6	1847.1	1843.6
22.5°	1925.8	1927.9	1932.0	1936.1	1942.3	1941.0	1938.9	1934.8	1925.8	1920.9	1915.4
25°	2005.2	2007.2	2017.6	2026.6	2028.6	2027.2	2024.5	2022.4	2014.1	2003.1	1998.9
27.5°	2097.7	2101.8	2115.6	2123.9	2123.9	2124.6	2119.0	2126.0	2108.0	2094.9	2093.5
30°	2213.6	2216.4	2228.1	2236.4	2232.2	2228.8	2227.4	2234.3	2215.0	2191.5	2186.0
32.5°	2328.2	2337.9	2348.2	2366.2	2351.7	2345.4	2344.1	2348.9	2326.8	2300.6	2293.0
35°	2451.1	2458.0	2477.3	2492.5	2479.4	2464.9	2471.1	2486.3	2460.0	2424.8	2423.4
37.5°	2587.0	2593.2	2618.1	2634.0	2624.3	2599.5	2609.8	2627.8	2601.5	2558.0	2549.1
40°	2728.5	2741.6	2772.7	2789.3	2773.4	2740.3	2759.6	2778.9	2755.5	2705.1	2685.0
42.5°	2887.3	2908.0	2952.9	2961.1	2930.8	2885.9	2919.7	2950.8	2934.2	2876.2	2868.7
45°	3073.0	3085.4	3140.6	3158.6	3116.5	3060.5	3102.6	3159.2	3146.8	3079.9	3065.4
47.5°	3280.7	3292.5	3349.8	3376.7	3323.5	3248.3	3324.2	3398.1	3390.5	3318.7	3311.8
50°	3526.5	3529.2	3608.6	3639.0	3585.8	3520.9	3588.6	3680.4	3650.0	3558.2	3556.8
52.5°	3795.7	3799.1	3899.2	3957.9	3928.2	3855.0	3935.1	3991.0	3913.7	3793.6	3784.6
55°	4029.0	4046.2	4182.9	4338.9	4379.6	4326.4	4350.6	4324.4	4133.9	3965.5	3939.2
57.5°	4124.2	4158.0	4365.8	4657.1	4922.1	5000.8	4814.5	4564.6	4221.5	3983.4	3957.9
60°	3891.6	3928.2	4250.5	4803.4	5479.8	5821.5	5297.6	4605.3	4022.1	3687.3	3647.2
62.5°	3116.5	3126.8	3601.0	4459.0	5805.0	6689.8	5501.2	4258.1	3441.6	2986.7	2970.8
64°	2242.6	2348.9	2851.4	3909.5	5662.8	7020.5	5383.9	3771.5	2795.5	2335.1	2260.5
65°	1677.3	1706.3	2298.5	3338.7	5412.2	6995.6	5156.1	3306.3	2315.1	1787.0	1704.2
67.5°	633.6	637.1	848.3	1664.2	3852.9	6018.9	3935.1	1798.8	975.3	705.4	679.9
70°	263.0	267.8	311.3	559.8	1655.9	3864.7	1897.5	648.8	356.9	289.2	285.1
72.5°	192.6	195.3	208.5	248.5	509.4	1586.9	624.0	275.4	209.1	187.1	185.0
75°	151.2	152.5	162.2	182.9	237.4	439.7	259.5	189.1	159.4	143.6	142.2
77.5°	115.3	118.7	125.6	139.4	159.4	208.5	171.9	141.5	122.9	109.7	107.7
80°	79.4	83.5	96.6	102.2	107.0	135.3	117.3	107.0	95.9	80.1	75.2
82.5°	49.0	51.8	64.9	69.7	67.6	75.9	75.2	76.6	68.3	49.7	46.2
85°	25.5	26.9	35.2	36.6	33.8	31.1	38.7	44.9	42.1	28.3	27.6
87.5°	5.5	6.2	7.6	6.9	7.6	7.6	9.7	14.5	15.2	9.7	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)