

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: P527834

Luminaire Tested: **GALN-SA2D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10301 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

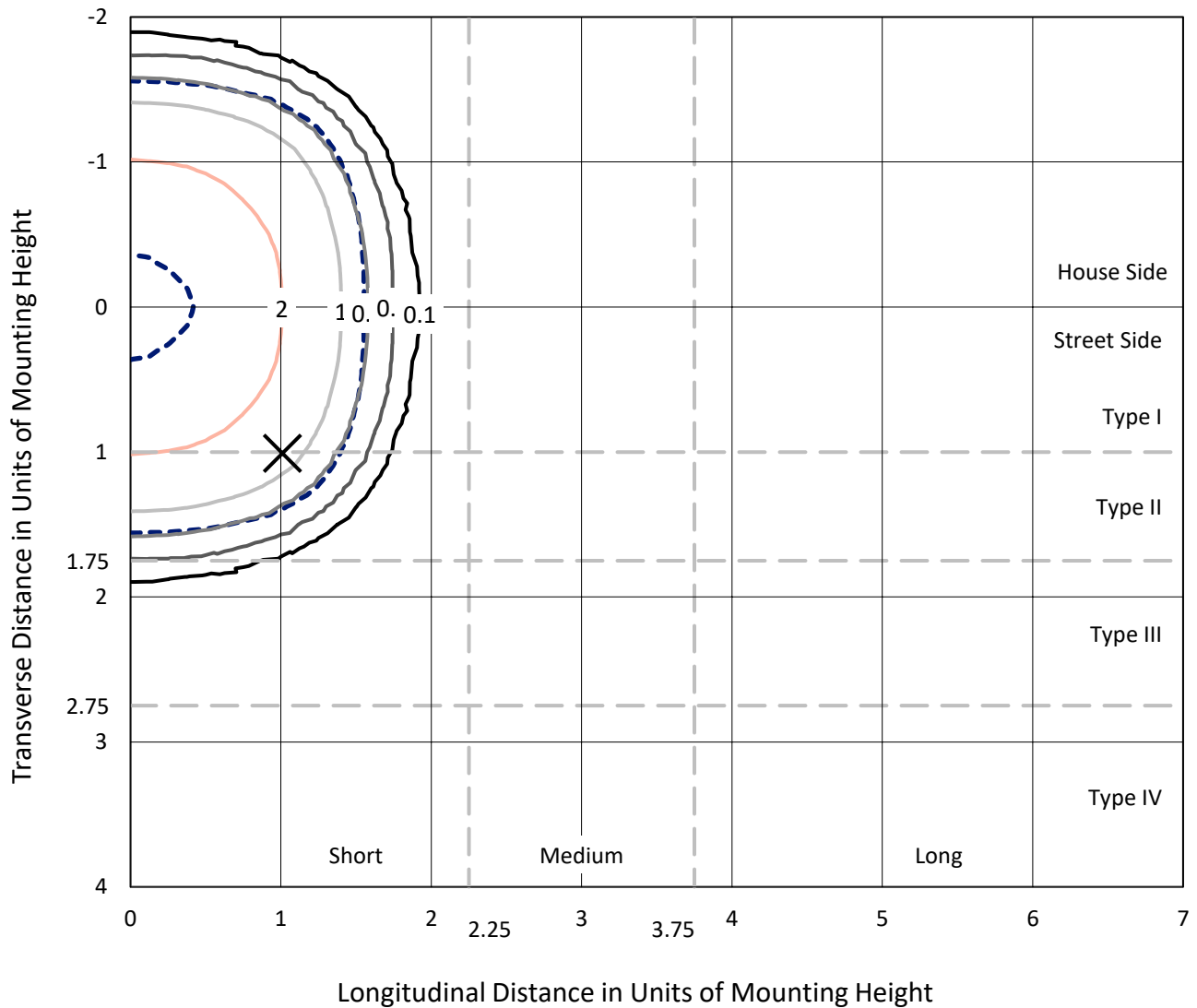
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

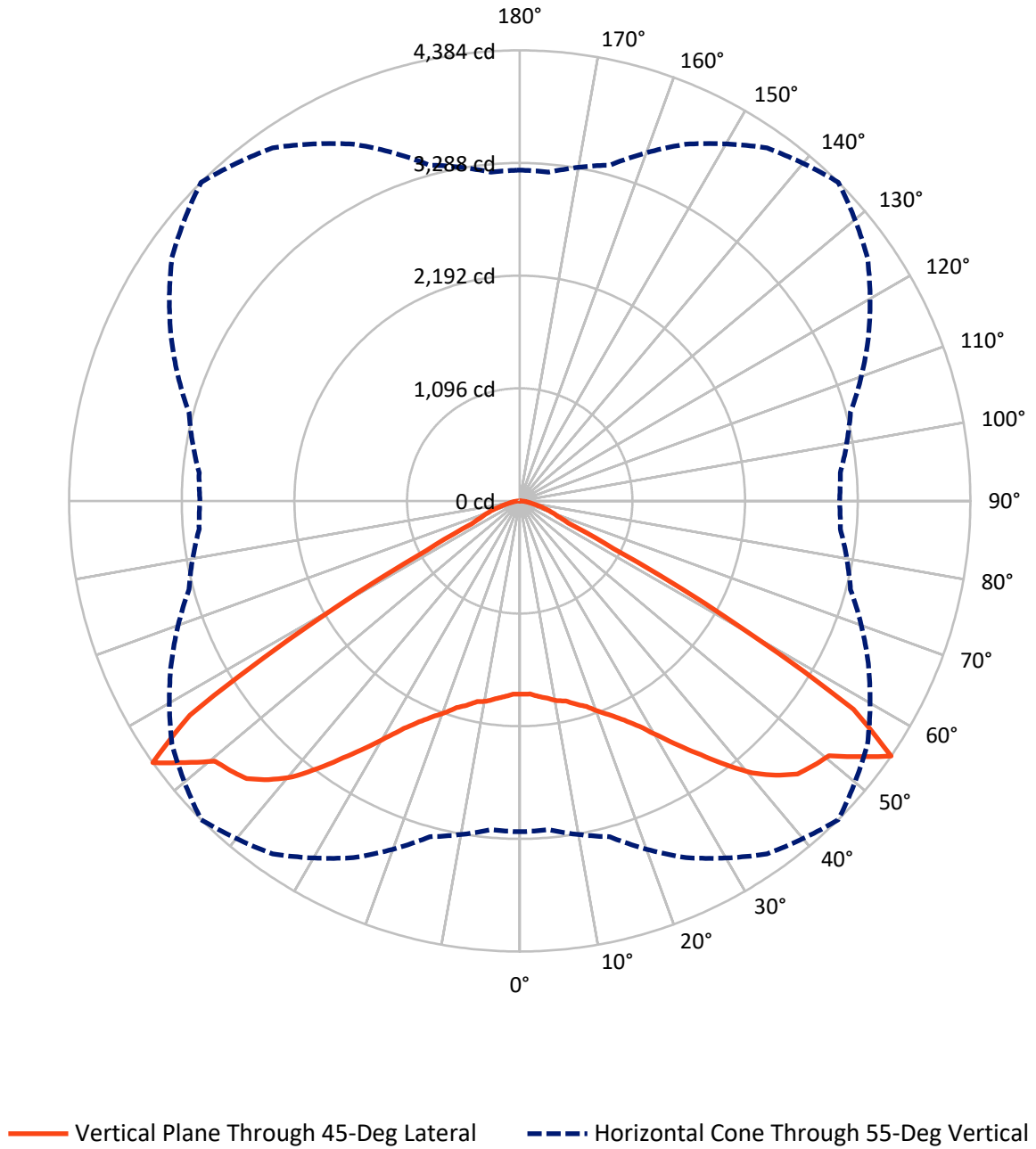
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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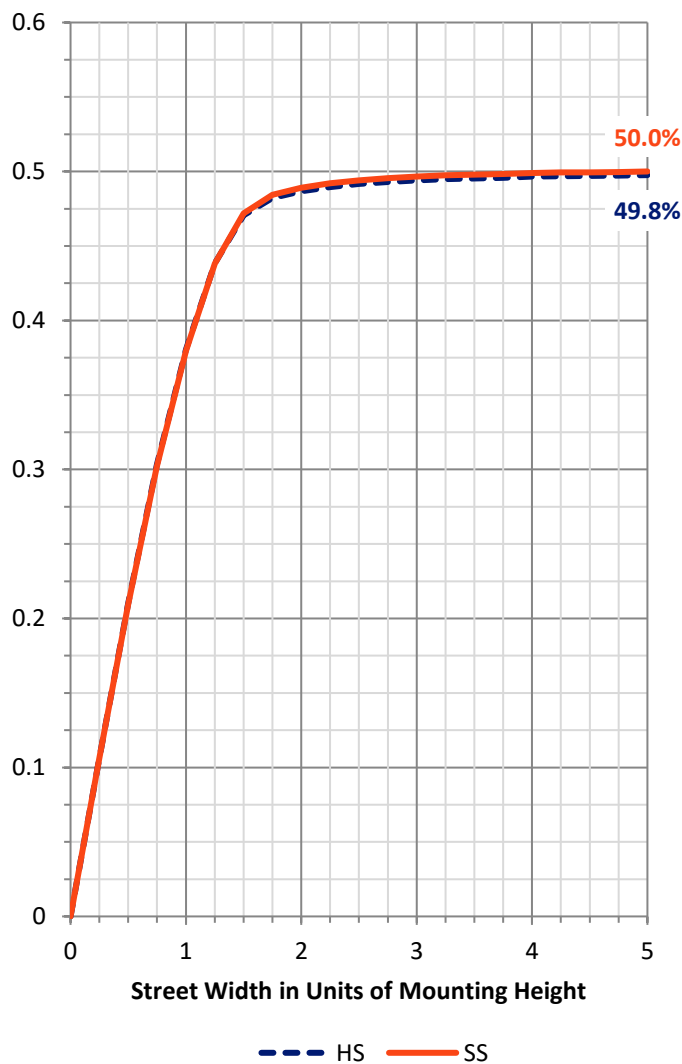
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5150.5	0.0	5150.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5150.5	0.0	5150.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10301.0	0.0	10301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	1.8
10°-20°	582.2	5.7
20°-30°	1085.6	10.5
30°-40°	1817.6	17.6
40°-50°	2828.3	27.5
50°-60°	2936.7	28.5
60°-70°	622.8	6.0
70°-80°	205.1	2.0
80°-90°	39.1	0.4
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°	10301.0	100.0
0°-180°	10301.0	100.0

Coefficient of Utilization



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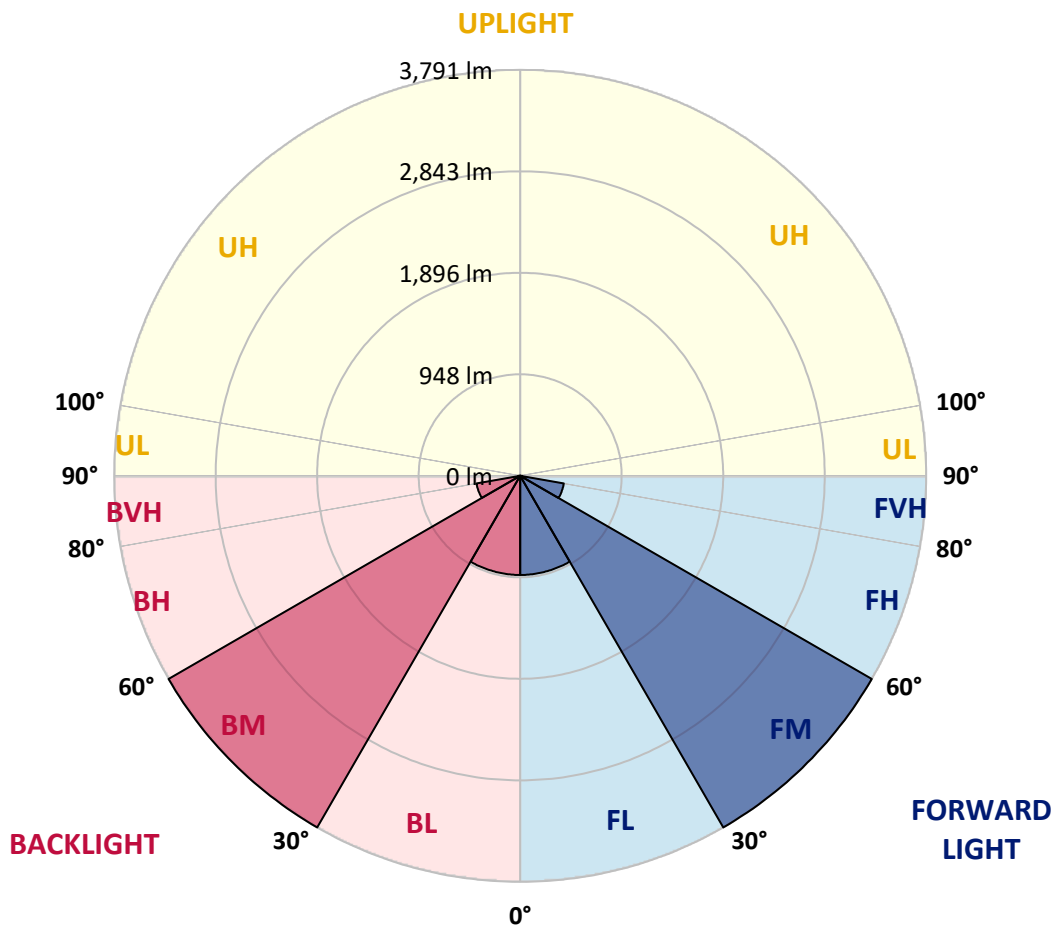
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.7	9.0			
FM (30°-60°)	3791.3	36.8			
FH (60°-80°)	413.9	4.0			G0/660
FVH (80°-90°)	19.5	0.2			G1/100
BL (0°-30°)	925.7	9.0	B2/1000		
BM (30°-60°)	3791.3	36.8	B3/5000		
BH (60°-80°)	413.9	4.0	B1/500		G0/660
BVH (80°-90°)	19.5	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1880.8	1880.8	1880.8	1880.8	1880.8	1880.8	1880.8	1880.8	1880.8	1880.8	1880.8
2.5°	1903.2	1894.5	1879.6	1890.8	1899.5	1880.8	1888.3	1892.0	1889.5	1879.6	1883.3
5°	1930.6	1925.6	1913.2	1921.9	1910.7	1910.7	1903.2	1893.3	1908.2	1905.7	1911.9
7.5°	1930.6	1924.4	1949.3	1933.1	1938.1	1938.1	1925.6	1915.7	1923.1	1911.9	1905.7
10°	1969.2	1977.9	1966.7	1970.4	1967.9	1976.7	1958.0	1951.8	1945.5	1941.8	1934.3
12.5°	2015.2	2009.0	2012.8	2010.3	2019.0	1996.6	1985.4	1971.7	1982.9	1966.7	1977.9
15°	2052.6	2048.8	2052.6	2062.5	2053.8	2052.6	2032.7	2019.0	2001.5	2005.3	1987.9
17.5°	2103.6	2099.9	2101.1	2109.8	2108.6	2102.4	2087.4	2061.3	2055.1	2045.1	2033.9
20°	2179.5	2173.3	2170.8	2174.6	2180.8	2185.8	2155.9	2145.9	2124.8	2108.6	2089.9
22.5°	2244.3	2241.8	2251.7	2235.6	2249.3	2264.2	2235.6	2230.6	2178.3	2169.6	2149.7
25°	2333.9	2330.2	2323.9	2347.6	2363.8	2362.5	2335.1	2307.8	2267.9	2258.0	2258.0
27.5°	2428.5	2407.3	2439.7	2445.9	2474.6	2483.3	2459.6	2419.8	2382.4	2361.3	2366.3
30°	2546.7	2526.8	2534.3	2579.1	2616.5	2648.8	2589.1	2530.6	2478.3	2440.9	2434.7
32.5°	2665.0	2645.1	2667.5	2711.1	2785.7	2834.3	2775.8	2673.7	2612.7	2557.9	2569.2
35°	2760.8	2775.8	2811.9	2877.8	2955.0	3033.4	2940.1	2861.7	2774.5	2713.5	2722.3
37.5°	2915.2	2961.2	2989.9	3065.8	3175.3	3256.3	3159.2	3057.1	2963.7	2884.1	2856.7
40°	3116.8	3148.0	3180.3	3269.9	3399.4	3480.3	3388.2	3255.0	3162.9	3080.7	3077.0
42.5°	3338.4	3368.3	3401.9	3511.4	3588.6	3649.6	3564.9	3494.0	3391.9	3327.2	3323.5
45°	3596.1	3574.9	3612.2	3684.4	3749.2	3789.0	3734.2	3699.4	3625.9	3566.2	3560.0
47.5°	3767.8	3749.2	3816.4	3881.1	3891.1	3847.5	3858.7	3891.1	3813.9	3715.6	3746.7
50°	3867.4	3867.4	3912.2	3972.0	3953.3	3897.3	3985.7	3988.2	3911.0	3823.9	3823.9
52.5°	3694.4	3733.0	3860.0	4055.4	4117.6	4133.8	4113.9	4029.2	3827.6	3649.6	3640.9
55°	3218.9	3210.2	3382.0	3830.1	4192.3	4384.0	4130.1	3740.5	3330.9	3130.5	3110.6
57.5°	2093.7	2103.6	2360.0	2816.9	3470.3	3827.6	3399.4	2851.7	2360.0	2083.7	2109.8
60°	942.3	975.9	1131.5	1472.5	2033.9	2325.2	2038.9	1547.2	1187.5	1030.6	1044.3
62.5°	541.5	547.7	553.9	657.2	866.3	1024.4	900.0	694.6	612.4	585.0	585.0
65°	456.8	453.1	454.3	463.0	485.5	517.8	504.1	485.5	487.9	485.5	481.7
67.5°	388.4	393.3	389.6	395.8	397.1	402.1	410.8	418.2	419.5	422.0	419.5
70°	318.7	319.9	322.4	327.4	328.6	332.3	344.8	351.0	354.8	354.8	359.7
72.5°	244.0	242.7	245.2	250.2	256.4	257.7	268.9	277.6	282.6	276.3	277.6
75°	160.6	161.8	165.6	169.3	178.0	186.7	190.4	199.2	200.4	202.9	196.7
77.5°	95.8	98.3	102.1	109.5	117.0	124.5	133.2	139.4	141.9	139.4	131.9
80°	62.2	62.2	67.2	73.4	82.2	88.4	93.4	98.3	102.1	98.3	95.8
82.5°	38.6	38.6	44.8	52.3	58.5	62.2	69.7	75.9	79.7	77.2	73.4
85°	19.9	21.2	26.1	32.4	37.3	39.8	38.6	34.9	31.1	29.9	27.4
87.5°	6.2	6.2	7.5	7.5	6.2	6.2	7.5	6.2	7.5	7.5	7.5
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)