

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: P527832

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10094 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

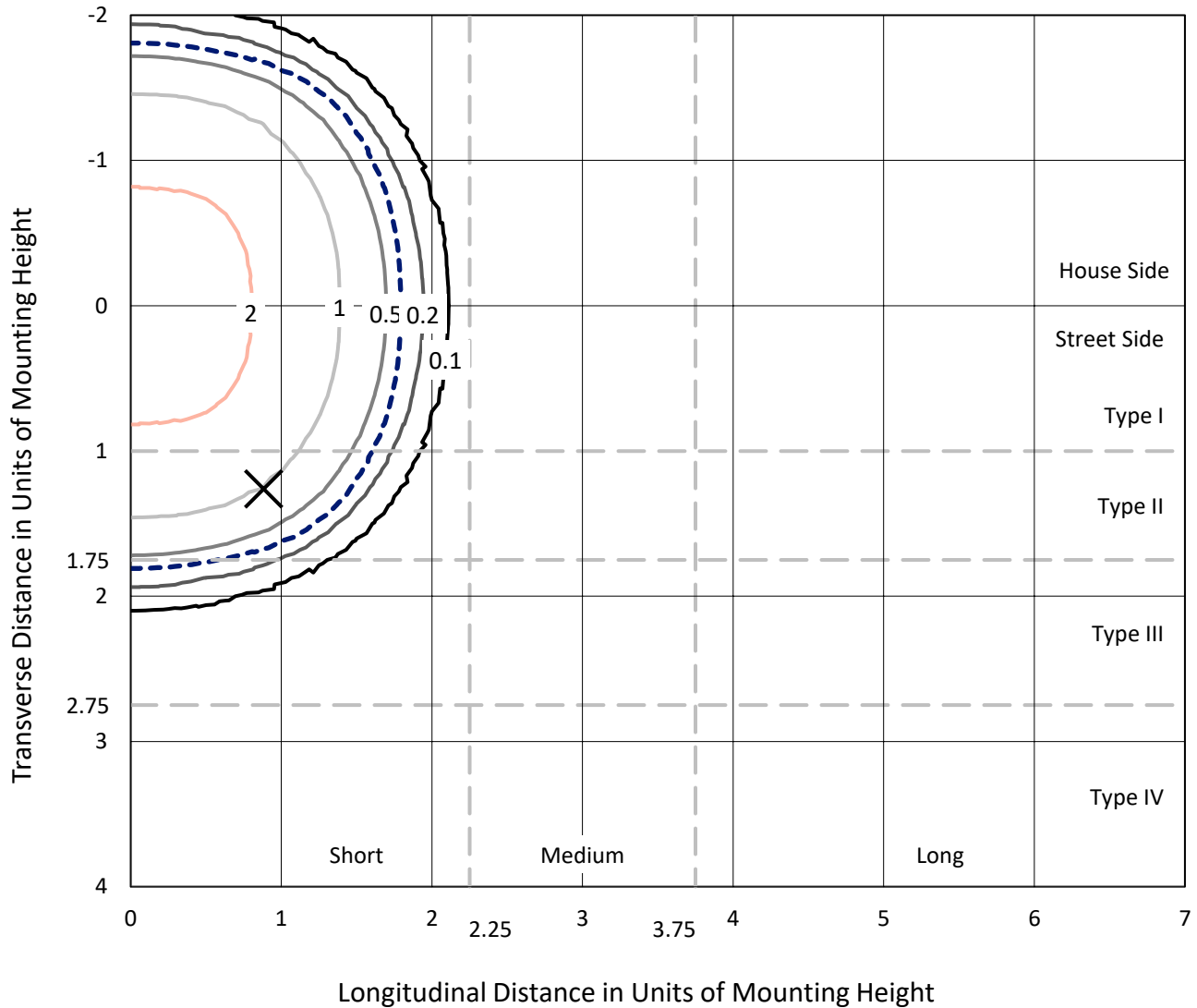
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

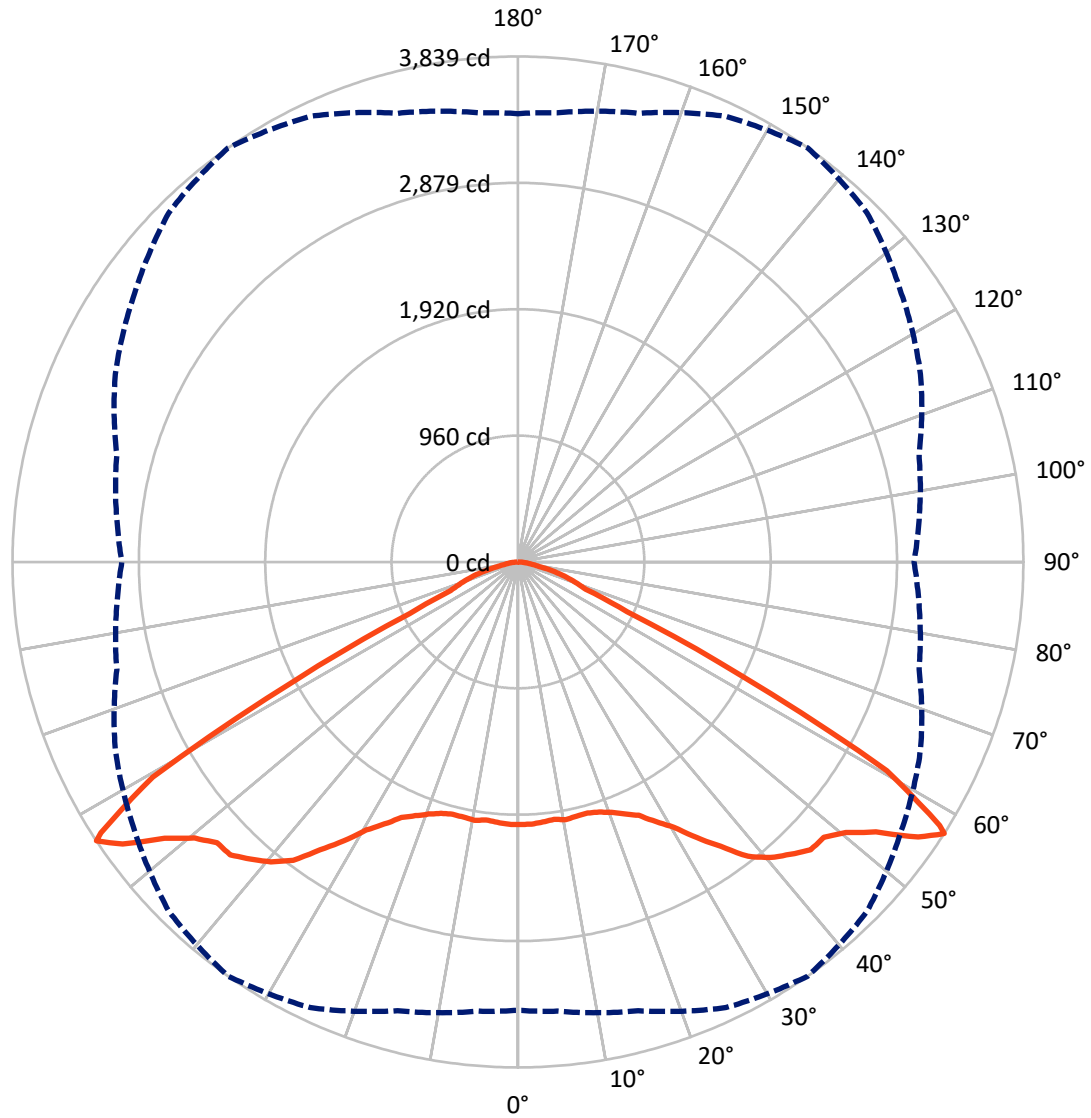
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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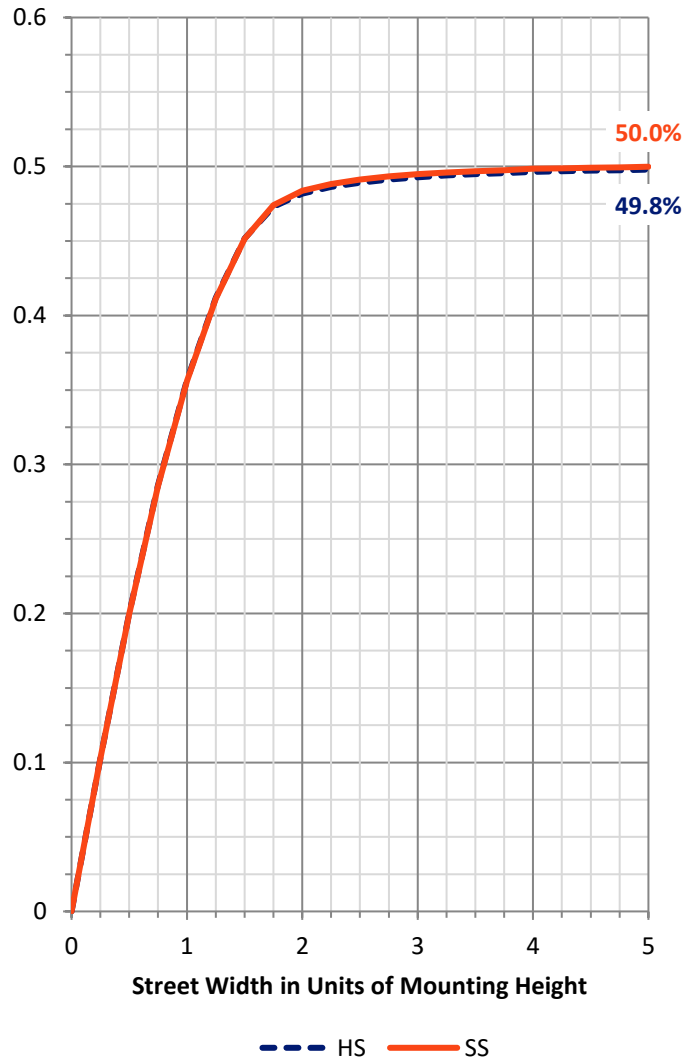
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5047.0	0.0	5047.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5047.0	0.0	5047.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10094.0	0.0	10094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	1.9
10°-20°	559.7	5.5
20°-30°	977.6	9.7
30°-40°	1601.8	15.9
40°-50°	2348.6	23.3
50°-60°	2958.2	29.3
60°-70°	1112.6	11.0
70°-80°	295.8	2.9
80°-90°	50.7	0.5
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°	10094.0	100.0
0°-180°	10094.0	100.0

Coefficient of Utilization



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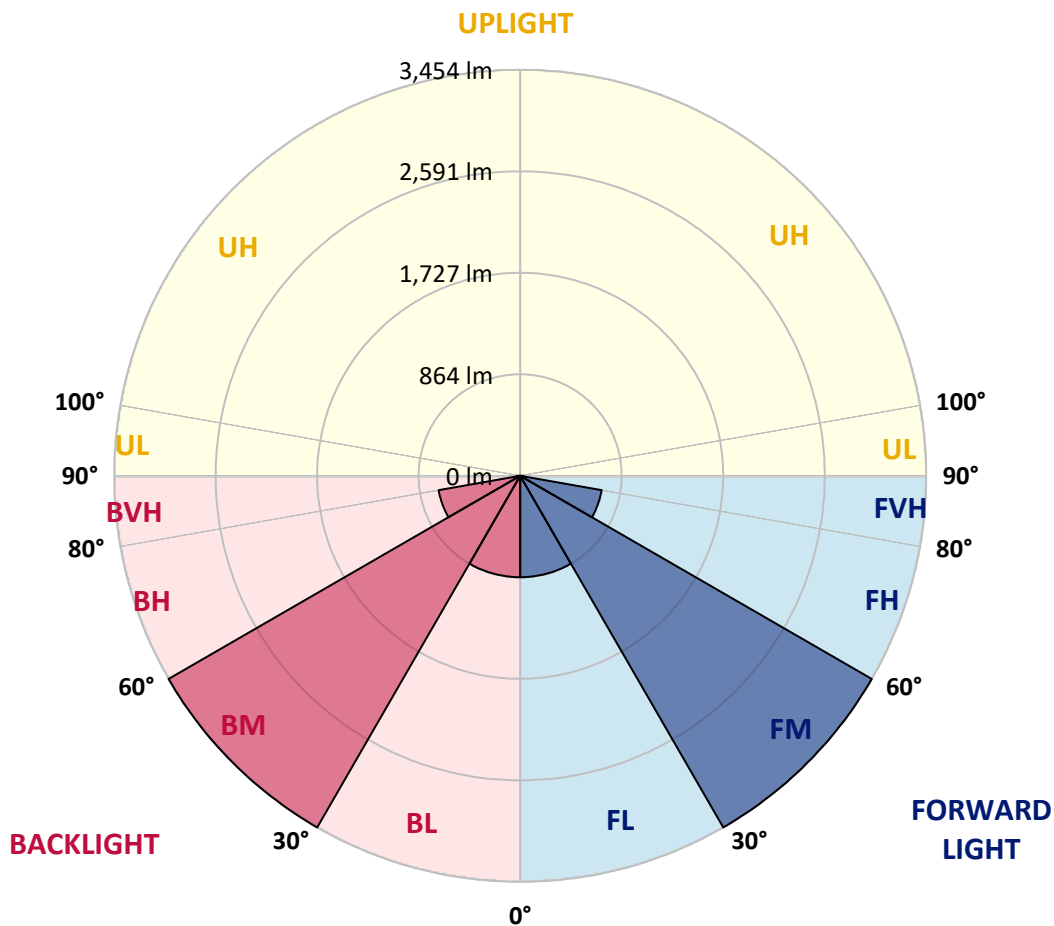
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.1	8.6			
FM (30°-60°)	3454.3	34.2			
FH (60°-80°)	704.2	7.0			G1/1800
FVH (80°-90°)	25.4	0.3			G1/100
BL (0°-30°)	863.1	8.6	B2/1000		
BM (30°-60°)	3454.3	34.2	B3/5000		
BH (60°-80°)	704.2	7.0	B2/1000		G1/1800
BVH (80°-90°)	25.4	0.3			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°	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5
2.5°	1983.5	2003.4	1994.7	1989.8	1993.5	1987.3	1977.3	1988.5	1986.0	1976.1	1972.3
5°	1978.6	1993.5	1983.5	1993.5	1983.5	2001.0	1996.0	1977.3	1999.7	1978.6	1986.0
7.5°	1974.8	1979.8	1982.3	1977.3	1973.6	1994.7	1983.5	1974.8	1962.4	1958.7	1964.9
10°	1966.1	1978.6	1959.9	1984.8	1989.8	1974.8	1974.8	1958.7	1948.7	1942.5	1963.6
12.5°	1988.5	1967.4	1964.9	1977.3	1981.1	1987.3	1969.9	1961.2	1942.5	1945.0	1941.3
15°	1962.4	1971.1	1972.3	1974.8	1978.6	1993.5	1977.3	1958.7	1951.2	1925.1	1927.6
17.5°	1972.3	1963.6	1972.3	2001.0	1996.0	2007.2	1989.8	1961.2	1943.7	1928.8	1948.7
20°	1989.8	1986.0	1989.8	2024.6	2030.8	2040.7	2025.8	1999.7	1966.1	1948.7	1958.7
22.5°	2008.4	2005.9	2008.4	2042.0	2078.1	2090.5	2075.6	2014.6	1997.2	1964.9	1953.7
25°	2042.0	2044.5	2070.6	2107.9	2131.5	2155.2	2127.8	2084.3	2028.3	2008.4	1984.8
27.5°	2116.6	2122.8	2137.7	2192.5	2233.5	2254.6	2216.1	2156.4	2121.6	2080.5	2074.3
30°	2208.6	2208.6	2234.7	2282.0	2338.0	2370.3	2323.0	2252.2	2209.9	2187.5	2173.8
32.5°	2330.5	2316.8	2326.8	2410.1	2497.1	2524.5	2461.1	2374.0	2306.9	2277.0	2267.1
35°	2435.0	2443.7	2466.1	2555.6	2652.6	2716.0	2616.5	2503.4	2435.0	2407.6	2402.6
37.5°	2570.5	2585.4	2596.6	2719.8	2836.7	2860.3	2764.5	2673.7	2590.4	2568.0	2555.6
40°	2762.0	2752.1	2755.8	2846.6	2952.3	2967.2	2872.7	2808.0	2739.7	2726.0	2726.0
42.5°	2920.0	2908.8	2921.2	2954.8	3035.6	3024.4	2972.2	2924.9	2896.3	2881.4	2896.3
45°	3015.7	3013.2	3035.6	3060.5	3117.7	3080.4	3039.4	3046.8	3019.5	2994.6	2993.3
47.5°	3120.2	3104.0	3131.4	3168.7	3125.2	3107.8	3105.3	3121.4	3112.7	3069.2	3055.5
50°	3171.2	3165.0	3208.5	3252.0	3228.4	3188.6	3197.3	3223.4	3111.5	3053.0	3019.5
52.5°	3308.0	3309.2	3392.5	3416.2	3406.2	3347.8	3366.4	3295.5	3163.7	3081.6	3085.4
55°	3523.1	3514.4	3607.7	3677.3	3688.5	3613.9	3524.4	3424.9	3259.5	3176.2	3151.3
57°	3405.0	3424.9	3528.1	3734.5	3839.0	3750.7	3555.5	3373.9	3153.8	3053.0	3008.3
57.5°	3247.0	3279.4	3458.5	3666.1	3775.6	3768.1	3516.9	3279.4	3082.9	2926.2	2929.9
60°	2379.0	2385.2	2546.9	2876.4	3218.4	3225.9	2920.0	2605.3	2386.5	2216.1	2239.7
62.5°	1254.8	1283.4	1348.1	1612.9	1908.9	1981.1	1795.8	1634.1	1445.1	1315.7	1328.2
65°	664.1	660.4	691.4	766.1	911.6	948.9	924.0	795.9	730.0	708.9	710.1
67.5°	539.7	545.9	542.2	545.9	555.9	572.1	568.3	573.3	577.0	583.2	582.0
70°	457.6	457.6	460.1	461.4	461.4	468.8	477.5	493.7	495.0	501.2	503.7
72.5°	360.6	358.2	361.9	370.6	371.8	378.1	390.5	400.4	404.2	404.2	396.7
75°	245.0	247.5	252.5	259.9	267.4	278.6	288.5	294.7	297.2	293.5	289.8
77.5°	138.0	140.5	144.3	155.4	164.2	174.1	185.3	191.5	197.7	199.0	191.5
80°	82.1	82.1	88.3	97.0	106.9	116.9	126.8	134.3	136.8	136.8	133.1
82.5°	49.7	51.0	56.0	64.7	73.4	79.6	88.3	94.5	99.5	98.2	95.8
85°	26.1	26.1	31.1	38.6	44.8	51.0	51.0	47.3	44.8	38.6	36.1
87.5°	8.7	7.5	9.9	9.9	8.7	9.9	9.9	11.2	11.2	11.2	11.2
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)