

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: P454832

Luminaire Tested: **GALN-SA6A-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23736 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

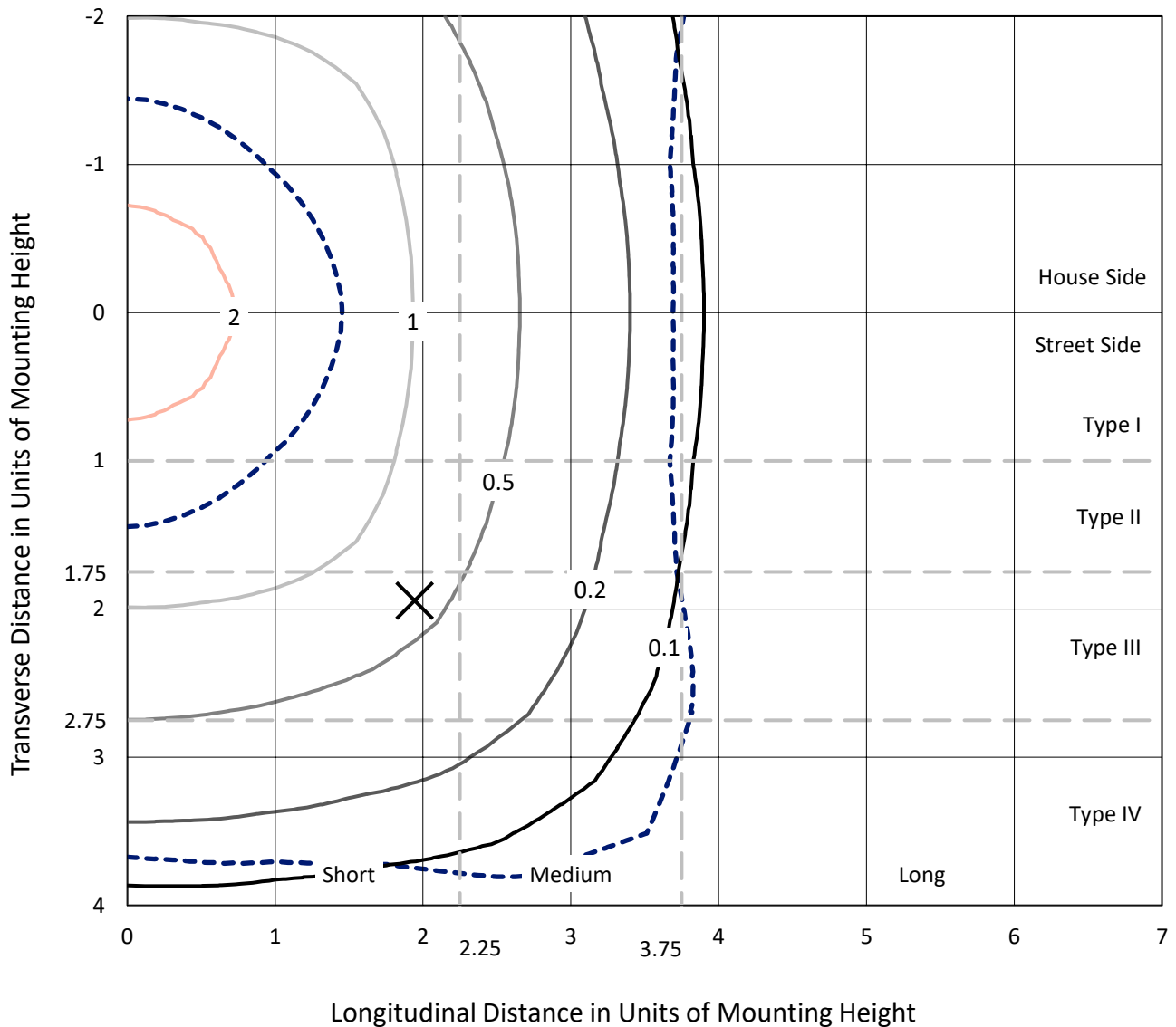
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

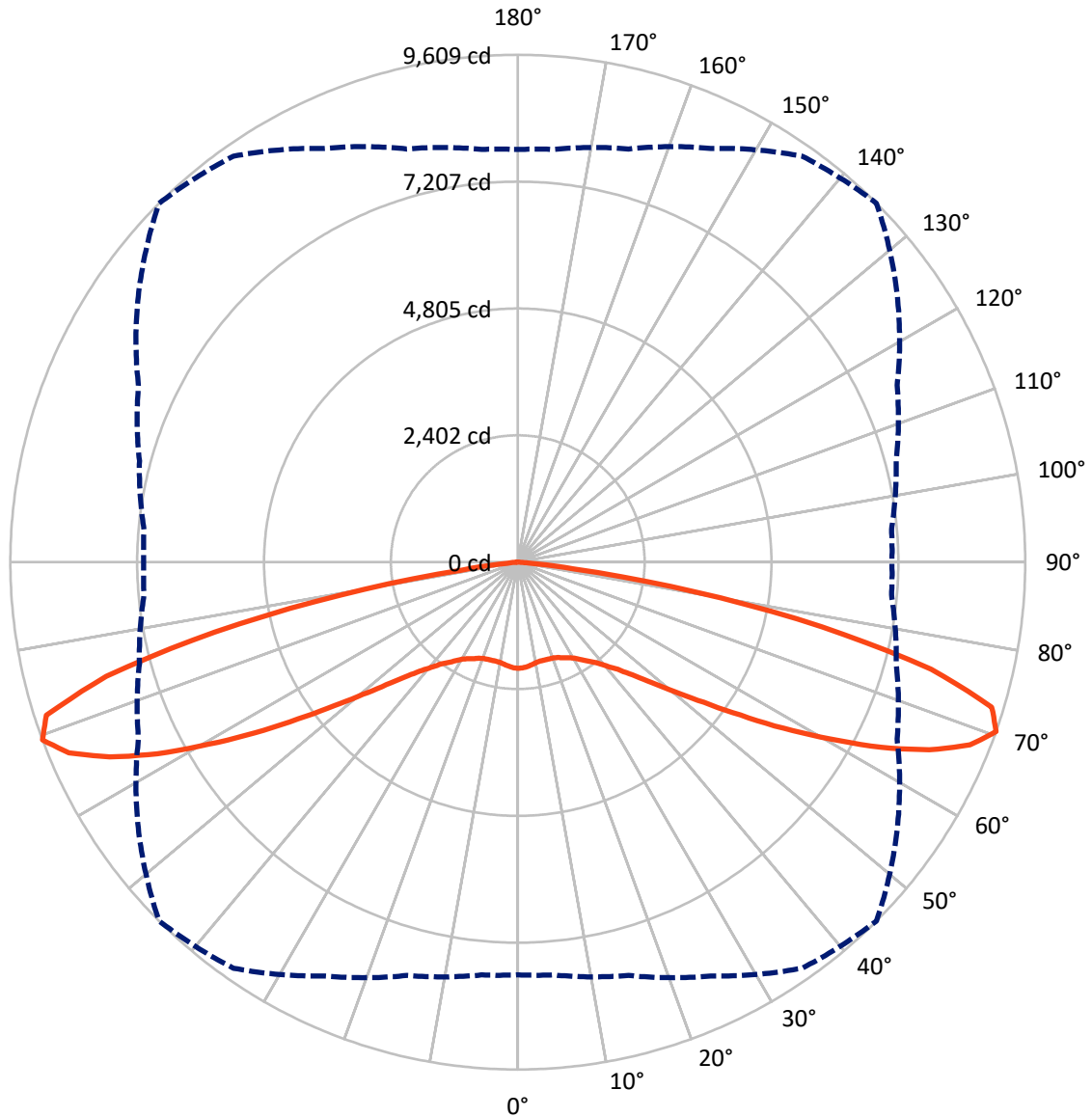
✕ Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11868.0	0.0	11868.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11868.0	0.0	11868.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23736.0	0.0	23736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	0.8
10°-20°	550.2	2.3
20°-30°	937.4	3.9
30°-40°	1452.9	6.1
40°-50°	2445.5	10.3
50°-60°	4449.4	18.7
60°-70°	7532.7	31.7
70°-80°	5830.6	24.6
80°-90°	349.4	1.5
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°	23736.0	100.0
0°-180°	23736.0	100.0



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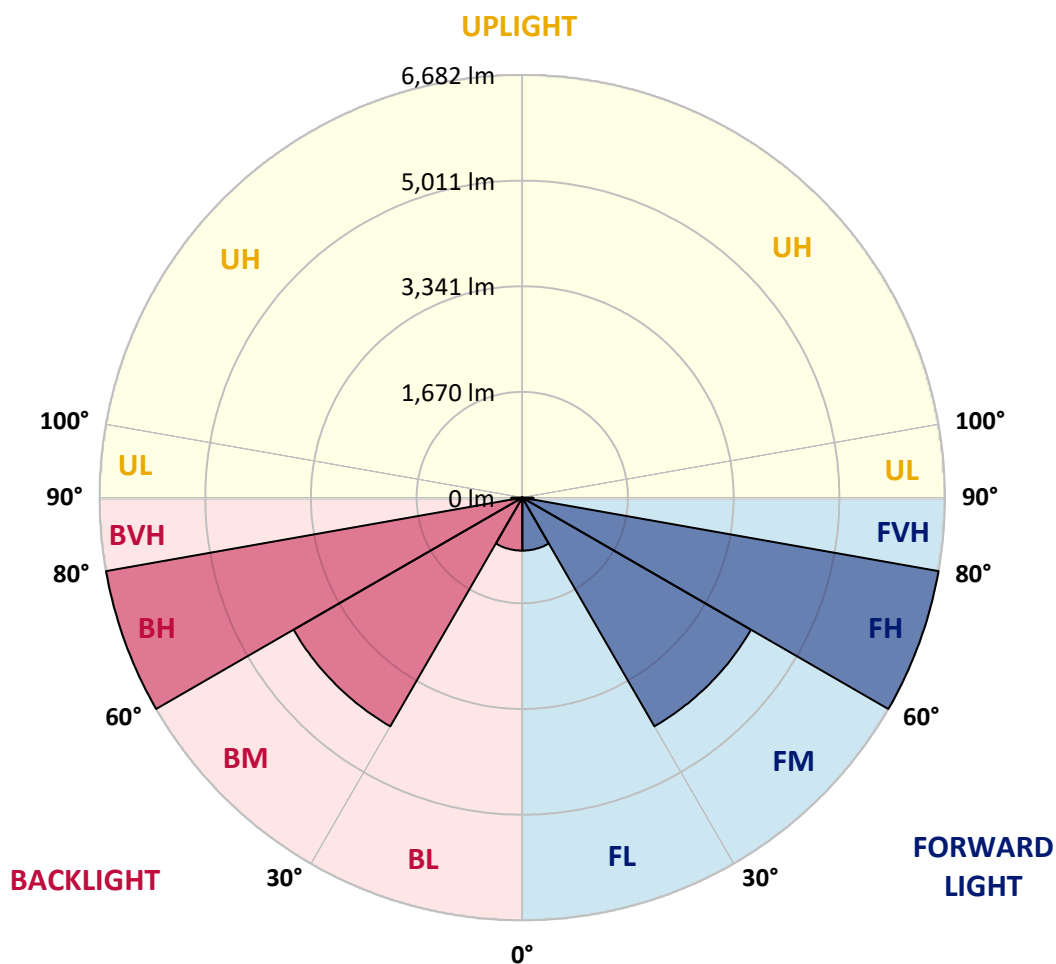
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.7	3.5			
FM (30°-60°)	4173.9	17.6			
FH (60°-80°)	6681.7	28.1			G3/7500
FVH (80°-90°)	174.7	0.7			G2/225
BL (0°-30°)	837.7	3.5	B2/1000		
BM (30°-60°)	4173.9	17.6	B3/5000		
BH (60°-80°)	6681.7	28.1	B5		G3/7500
BVH (80°-90°)	174.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5
2.5°	2004.5	2005.8	2005.8	2003.3	2002.0	2002.0	2000.8	2000.8	2004.5	2005.8	2007.0
5°	1987.0	1987.0	1987.0	1985.7	1983.2	1983.2	1980.7	1980.7	1982.0	1985.7	1983.2
7.5°	1963.2	1965.7	1965.7	1960.7	1956.9	1956.9	1955.6	1956.9	1958.1	1961.9	1960.7
10°	1955.6	1956.9	1950.6	1941.8	1935.6	1931.8	1933.1	1935.6	1941.8	1944.4	1945.6
12.5°	1960.7	1960.7	1949.4	1936.8	1925.6	1920.5	1919.3	1928.1	1939.3	1946.9	1949.4
15°	1966.9	1964.4	1950.6	1934.3	1923.0	1921.8	1920.5	1926.8	1943.1	1958.1	1959.4
17.5°	1970.7	1969.4	1951.9	1931.8	1925.6	1925.6	1924.3	1929.3	1946.9	1965.7	1966.9
20°	1983.2	1979.5	1959.4	1938.1	1933.1	1935.6	1931.8	1938.1	1956.9	1979.5	1984.5
22.5°	2008.3	2004.5	1984.5	1963.2	1960.7	1960.7	1959.4	1965.7	1985.7	2009.5	2013.3
25°	2038.4	2034.6	2015.8	2000.8	2003.3	2008.3	2005.8	2007.0	2023.3	2043.4	2049.7
27.5°	2078.5	2072.2	2055.9	2043.4	2050.9	2050.9	2050.9	2049.7	2059.7	2078.5	2084.8
30°	2127.4	2124.9	2107.3	2106.1	2112.3	2106.1	2106.1	2107.3	2108.6	2126.1	2132.4
32.5°	2191.3	2186.3	2177.5	2175.0	2192.6	2197.6	2180.0	2163.7	2172.5	2190.1	2193.8
35°	2296.6	2289.1	2276.6	2262.8	2276.6	2300.4	2262.8	2250.2	2272.8	2296.6	2299.1
37.5°	2439.5	2435.8	2415.7	2390.6	2389.4	2414.5	2375.6	2374.3	2417.0	2445.8	2449.6
40°	2618.8	2622.6	2597.5	2573.7	2561.1	2581.2	2551.1	2562.4	2603.8	2636.4	2633.8
42.5°	2870.8	2857.0	2818.1	2795.6	2781.8	2774.2	2766.7	2784.3	2830.7	2865.8	2893.3
45°	3165.4	3160.4	3111.5	3083.9	3053.8	3042.5	3040.0	3071.4	3127.8	3170.4	3174.2
47.5°	3498.8	3487.6	3456.2	3427.4	3416.1	3402.3	3389.8	3413.6	3470.0	3500.1	3508.9
50°	3842.3	3844.8	3844.8	3839.8	3851.1	3853.6	3819.8	3828.5	3859.9	3857.4	3854.9
52.5°	4234.7	4248.5	4313.7	4320.0	4373.9	4410.2	4348.8	4312.4	4301.1	4233.5	4238.5
55°	4696.0	4708.6	4806.4	4904.1	5049.6	5111.0	4981.9	4869.0	4788.8	4686.0	4691.0
57.5°	5271.4	5277.7	5370.5	5558.5	5789.2	5933.4	5706.5	5483.3	5320.3	5222.6	5183.7
60°	5890.7	5897.0	6032.4	6261.8	6620.3	6795.8	6515.0	6150.2	5944.6	5795.5	5805.5
62.5°	6634.1	6659.2	6780.8	7096.7	7531.7	7728.5	7356.2	6868.6	6590.2	6404.7	6412.2
65°	7430.2	7472.8	7605.7	7952.9	8354.1	8565.9	8109.6	7546.8	7200.8	6973.9	6997.7
67.5°	7946.7	7984.3	8176.1	8559.7	9059.9	9235.4	8646.2	7990.5	7558.0	7287.3	7237.1
70°	7815.0	7846.4	8102.1	8646.2	9387.1	9609.0	8774.0	7925.3	7416.4	7104.2	7084.2
72.5°	6898.6	6833.4	7207.0	7988.0	9013.5	9385.8	8371.6	7238.4	6597.8	6276.8	6239.2
75°	4571.9	4713.6	5265.2	6185.3	7625.7	8087.1	7145.6	5811.8	5005.7	4738.7	4697.3
77.5°	1528.2	1637.2	2127.4	3506.4	5198.7	5892.0	5206.3	3801.0	2689.0	2166.2	2176.3
80°	404.9	399.9	517.7	964.0	2246.5	3412.3	2615.0	1287.5	704.5	510.2	483.9
82.5°	145.4	163.0	209.4	267.0	595.5	1060.6	748.4	361.0	264.5	195.6	189.3
85°	63.9	62.7	90.3	106.6	149.2	198.1	175.5	152.9	134.1	89.0	82.7
87.5°	13.8	13.8	21.3	16.3	26.3	26.3	32.6	38.9	40.1	26.3	21.3
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)