

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: P451583

Luminaire Tested: **GALN-SA2C-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451583
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-SA2C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12339 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

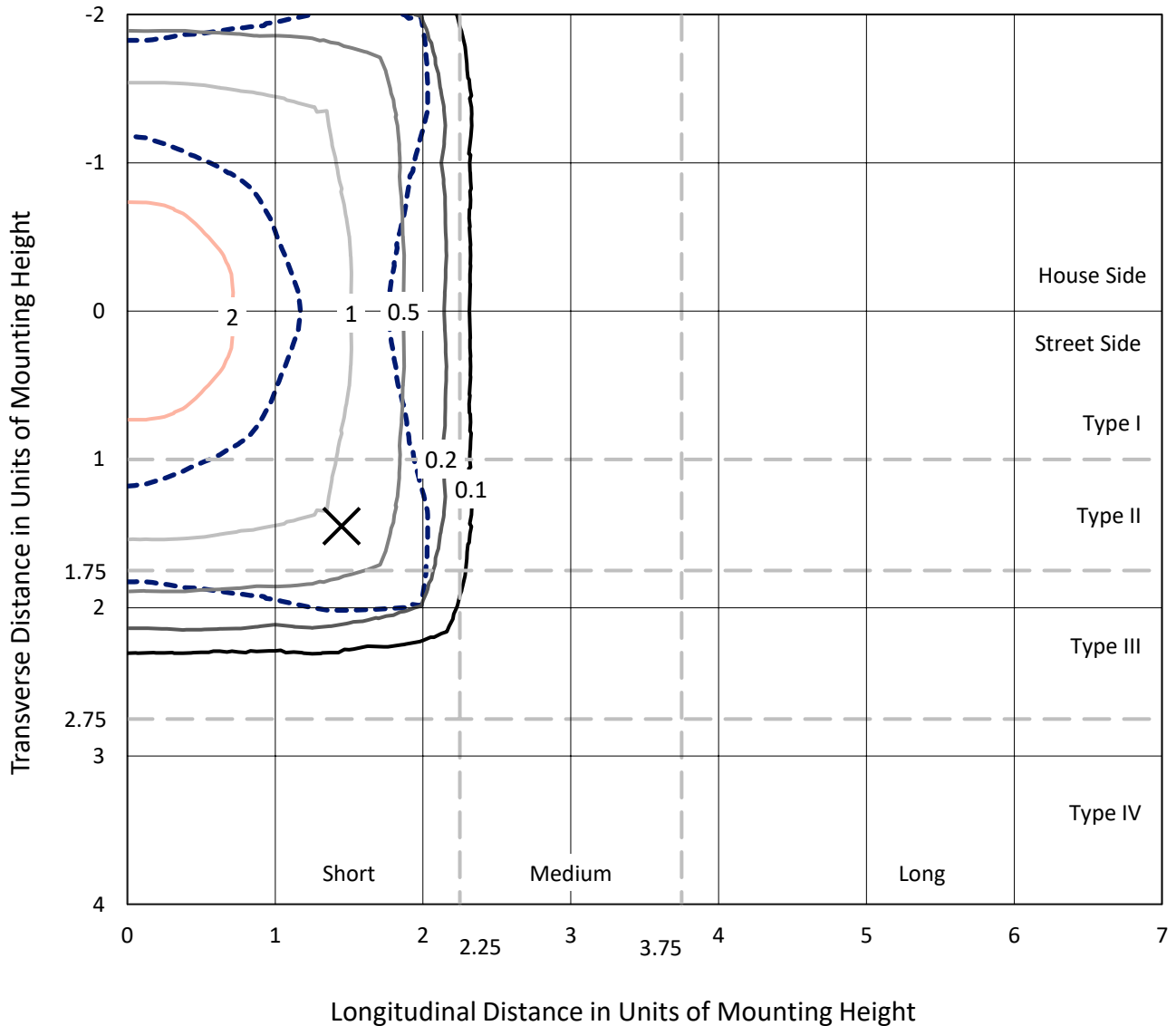
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

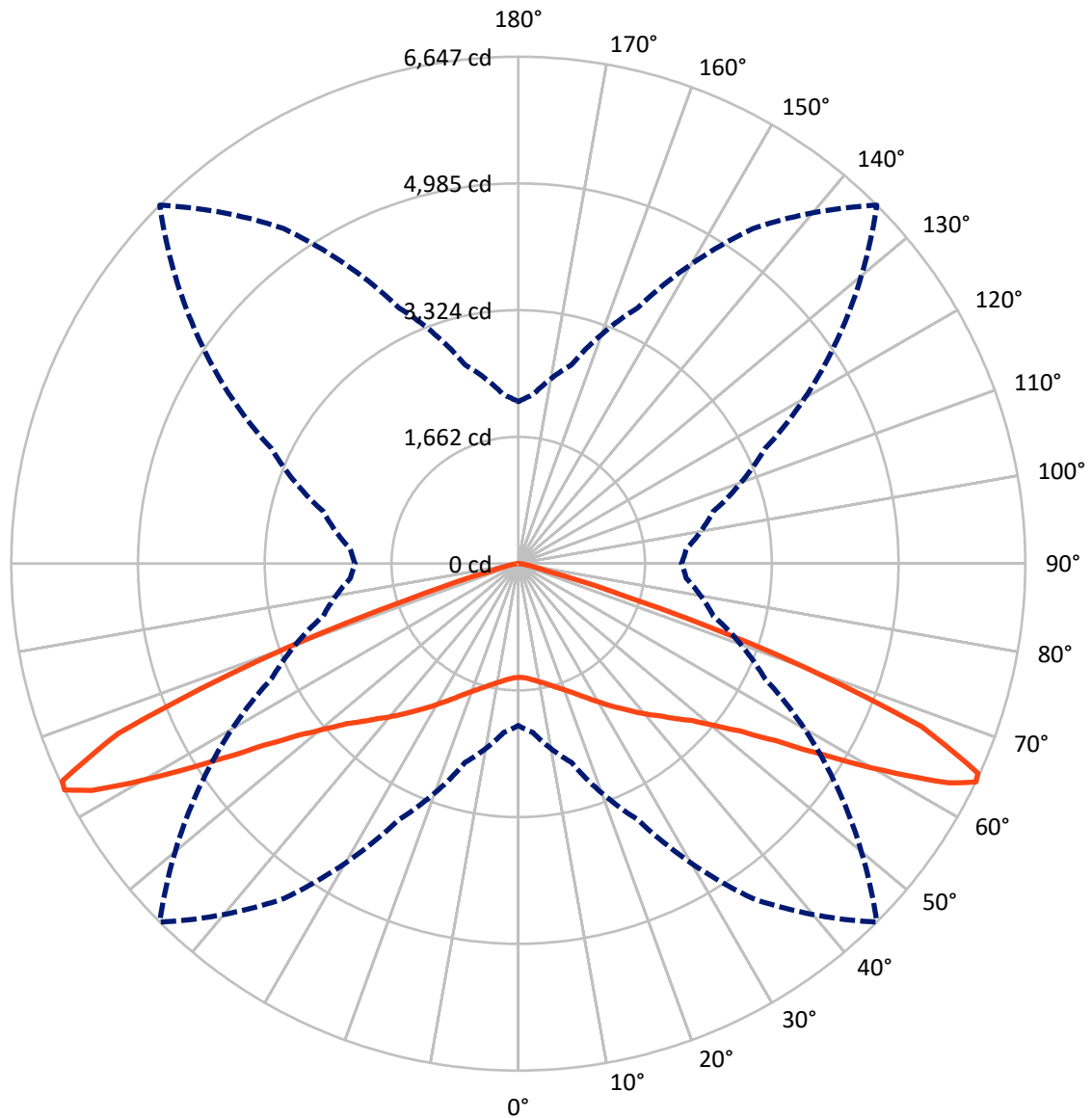
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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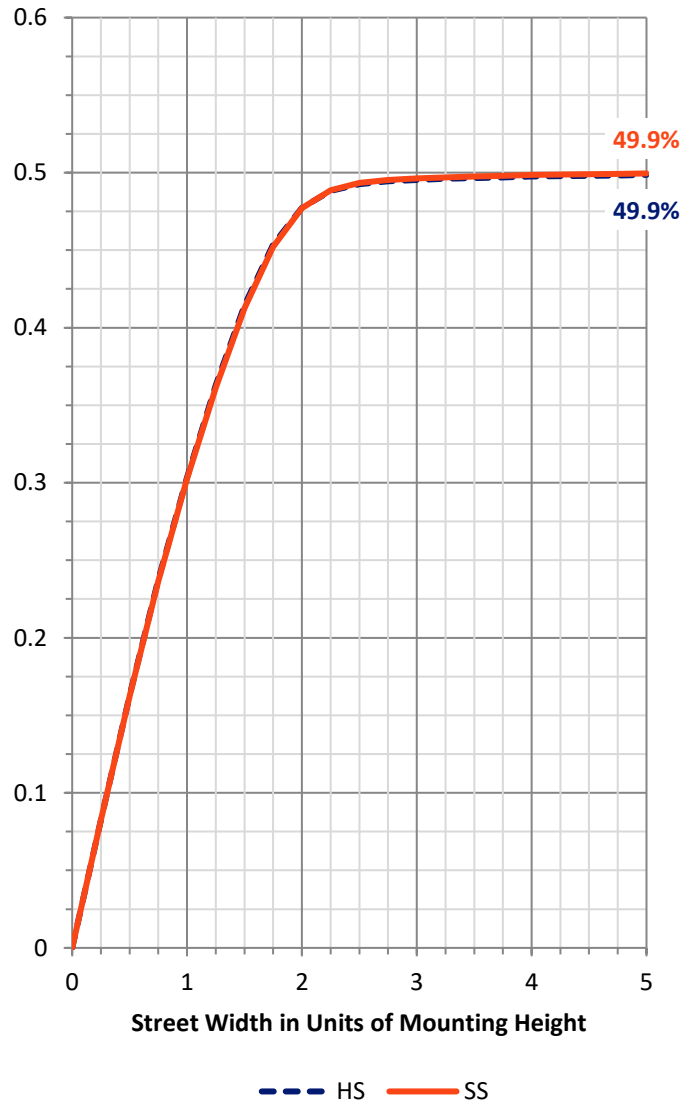
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6169.5	0.0	6169.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6169.5	0.0	6169.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12339.0	0.0	12339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.2
10°-20°	472.6	3.8
20°-30°	893.1	7.2
30°-40°	1479.1	12.0
40°-50°	2309.1	18.7
50°-60°	3569.8	28.9
60°-70°	3078.2	24.9
70°-80°	348.8	2.8
80°-90°	41.8	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°	12339.0	100.0
0°-180°	12339.0	100.0

Coefficient of Utilization



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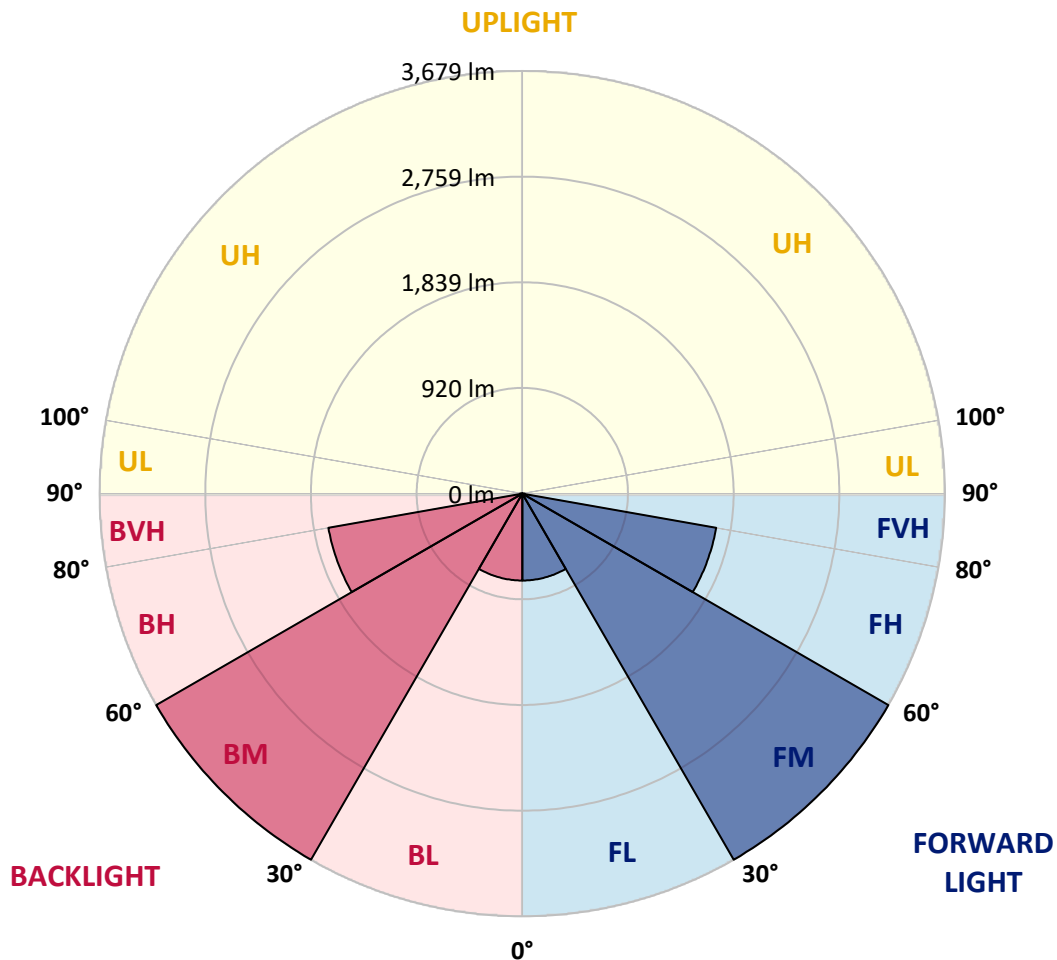
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.1	6.1			
FM (30°-60°)	3679.0	29.8			
FH (60°-80°)	1713.5	13.9			G1/1800
FVH (80°-90°)	20.9	0.2			G1/100
BL (0°-30°)	756.1	6.1	B2/1000		
BM (30°-60°)	3679.0	29.8	B3/5000		
BH (60°-80°)	1713.5	13.9	B3/2500		G1/1800
BVH (80°-90°)	20.9	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°	1491.4	1491.4	1491.4	1491.4	1491.4	1491.4	1491.4	1491.4	1491.4	1491.4	1491.4
2.5°	1497.3	1500.5	1497.9	1497.3	1496.6	1496.6	1496.6	1497.3	1499.9	1501.8	1500.5
5°	1516.2	1518.8	1517.5	1516.9	1516.2	1516.9	1515.6	1514.9	1516.9	1516.9	1516.2
7.5°	1539.7	1543.0	1541.7	1543.0	1543.7	1544.3	1541.0	1538.4	1537.8	1539.7	1538.4
10°	1571.8	1574.4	1575.0	1575.7	1577.0	1576.3	1572.4	1567.8	1567.2	1566.5	1565.9
12.5°	1607.7	1609.7	1610.3	1612.9	1614.9	1615.5	1611.0	1607.1	1600.5	1601.8	1599.2
15°	1648.2	1652.1	1651.5	1655.4	1660.6	1661.9	1657.4	1650.8	1645.0	1641.7	1639.7
17.5°	1697.9	1700.5	1699.2	1703.1	1709.7	1712.9	1709.0	1700.5	1694.6	1687.4	1683.5
20°	1756.7	1761.3	1762.6	1762.6	1768.5	1771.7	1765.9	1763.2	1754.1	1748.9	1745.6
22.5°	1823.4	1825.3	1829.3	1833.2	1839.1	1837.8	1835.8	1831.9	1823.4	1818.8	1813.6
25°	1898.5	1900.5	1910.3	1918.8	1920.8	1919.4	1916.8	1914.9	1907.0	1896.6	1892.6
27.5°	1986.1	1990.0	2003.1	2010.9	2010.9	2011.6	2006.4	2012.9	1995.9	1983.5	1982.2
30°	2095.9	2098.5	2109.6	2117.5	2113.5	2110.3	2109.0	2115.5	2097.2	2075.0	2069.8
32.5°	2204.4	2213.5	2223.3	2240.3	2226.6	2220.7	2219.4	2224.0	2203.1	2178.2	2171.1
35°	2320.7	2327.3	2345.6	2359.9	2347.5	2333.8	2339.7	2354.0	2329.2	2295.9	2294.6
37.5°	2449.5	2455.3	2478.9	2493.9	2484.8	2461.2	2471.0	2488.0	2463.2	2422.0	2413.5
40°	2583.4	2595.9	2625.3	2641.0	2625.9	2594.5	2612.8	2631.1	2608.9	2561.2	2542.3
42.5°	2733.8	2753.4	2795.8	2803.7	2774.9	2732.4	2764.5	2793.9	2778.2	2723.3	2716.1
45°	2909.6	2921.3	2973.6	2990.6	2950.7	2897.8	2937.7	2991.2	2979.5	2916.1	2902.4
47.5°	3106.3	3117.4	3171.6	3197.1	3146.8	3075.6	3147.4	3217.4	3210.2	3142.2	3135.7
50°	3338.9	3341.5	3416.7	3445.5	3395.1	3333.7	3397.7	3484.7	3455.9	3369.0	3367.7
52.5°	3593.8	3597.1	3691.8	3747.4	3719.3	3650.0	3725.8	3778.8	3705.6	3591.8	3583.4
55°	3814.7	3831.0	3960.4	4108.1	4146.7	4096.4	4119.3	4094.4	3914.0	3754.6	3729.7
57.5°	3904.9	3936.9	4133.6	4409.4	4660.4	4734.9	4558.4	4321.9	3997.0	3771.6	3747.4
60°	3684.7	3719.3	4024.5	4548.0	5188.4	5511.9	5015.9	4360.4	3808.2	3491.2	3453.3
62.5°	2950.7	2960.5	3409.5	4221.9	5496.3	6334.1	5208.7	4031.7	3258.5	2827.9	2812.8
64°	2123.3	2224.0	2699.8	3701.6	5361.6	6647.1	5097.6	3570.9	2646.8	2210.9	2140.3
65°	1588.1	1615.5	2176.3	3161.2	5124.4	6623.6	4881.9	3130.5	2192.0	1692.0	1613.6
67.5°	599.9	603.2	803.2	1575.7	3648.1	5698.9	3725.8	1703.1	923.5	667.9	643.7
70°	249.0	253.6	294.7	530.0	1567.8	3659.2	1796.6	614.3	337.9	273.8	269.9
72.5°	182.3	185.0	197.4	235.3	482.3	1502.5	590.8	260.8	198.0	177.1	175.1
75°	143.1	144.4	153.6	173.2	224.8	416.3	245.7	179.1	151.0	135.9	134.6
77.5°	109.1	112.4	118.9	132.0	151.0	197.4	162.7	134.0	116.3	103.9	102.0
80°	75.2	79.1	91.5	96.7	101.3	128.1	111.1	101.3	90.8	75.8	71.2
82.5°	46.4	49.0	61.4	66.0	64.0	71.9	71.2	72.5	64.7	47.1	43.8
85°	24.2	25.5	33.3	34.6	32.0	29.4	36.6	42.5	39.9	26.8	26.1
87.5°	5.2	5.9	7.2	6.5	7.2	7.2	9.1	13.7	14.4	9.1	8.5
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)