

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: P650723

Luminaire Tested: **GALN-SA2C-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650723
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-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 12408.9 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

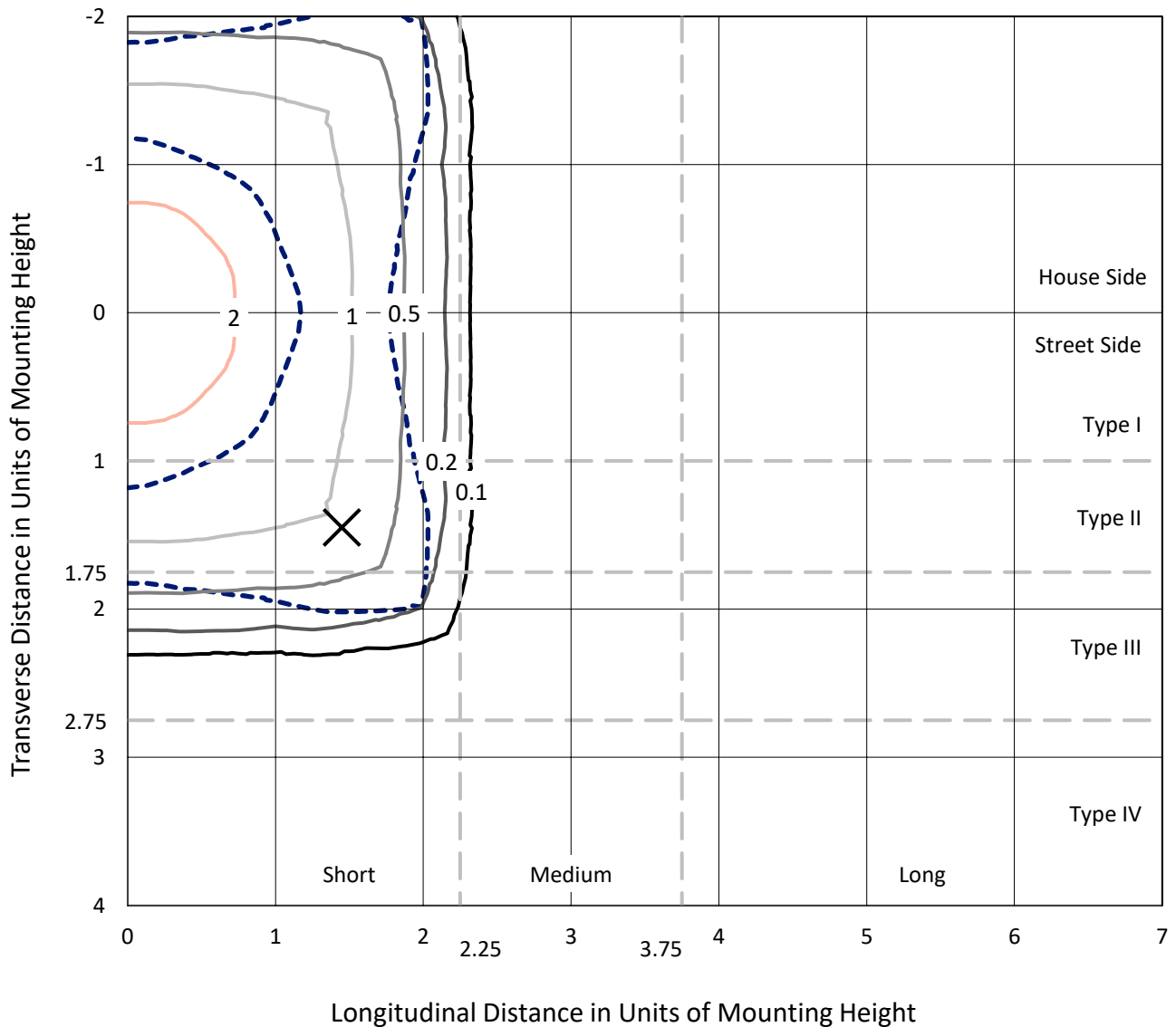
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

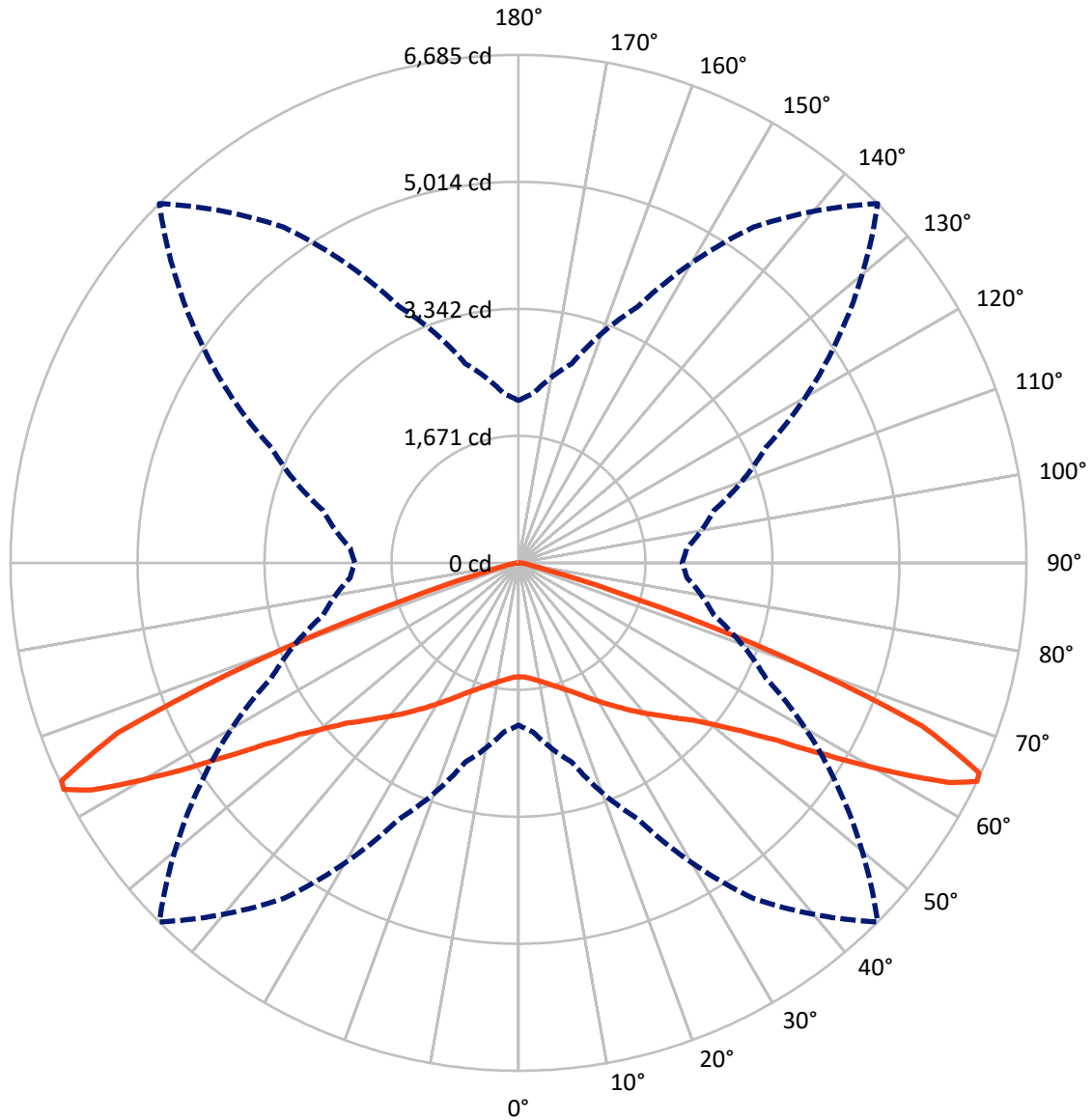
✕ Max cd
 - - - 1/2 Max cd



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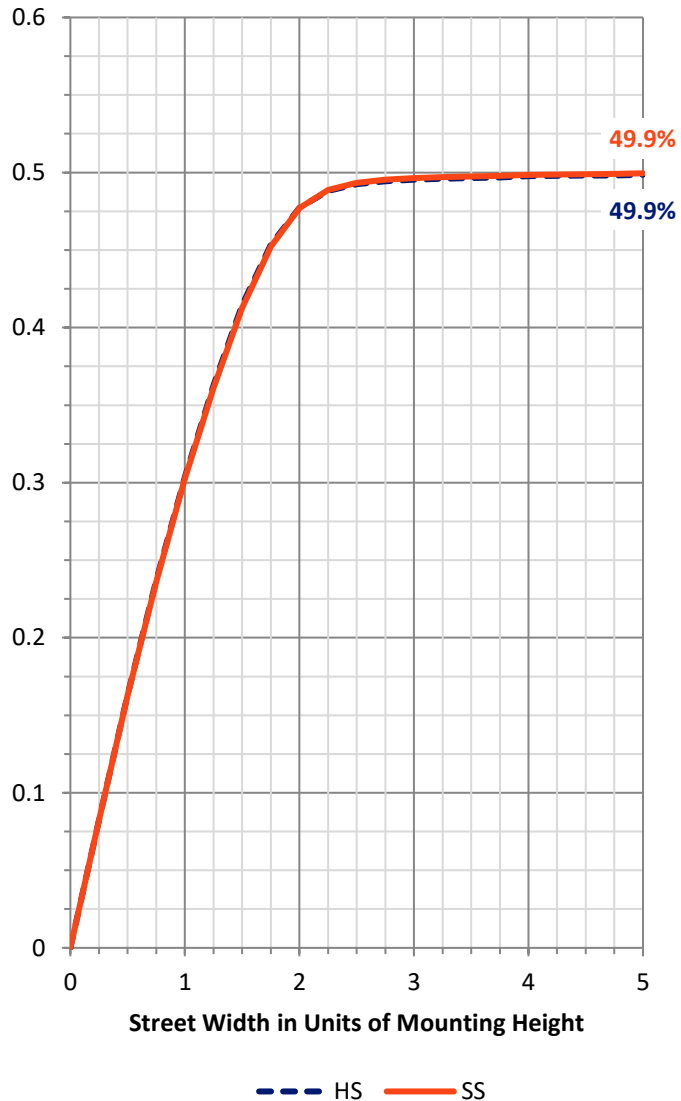
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6204.5	0.0	6204.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6204.5	0.0	6204.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12408.9	0.0	12408.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.2
10°-20°	475.3	3.8
20°-30°	898.2	7.2
30°-40°	1487.5	12.0
40°-50°	2322.2	18.7
50°-60°	3590.0	28.9
60°-70°	3095.6	24.9
70°-80°	350.8	2.8
80°-90°	42.0	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°	12408.9	100.0
0°-180°	12408.9	100.0

Coefficient of Utilization



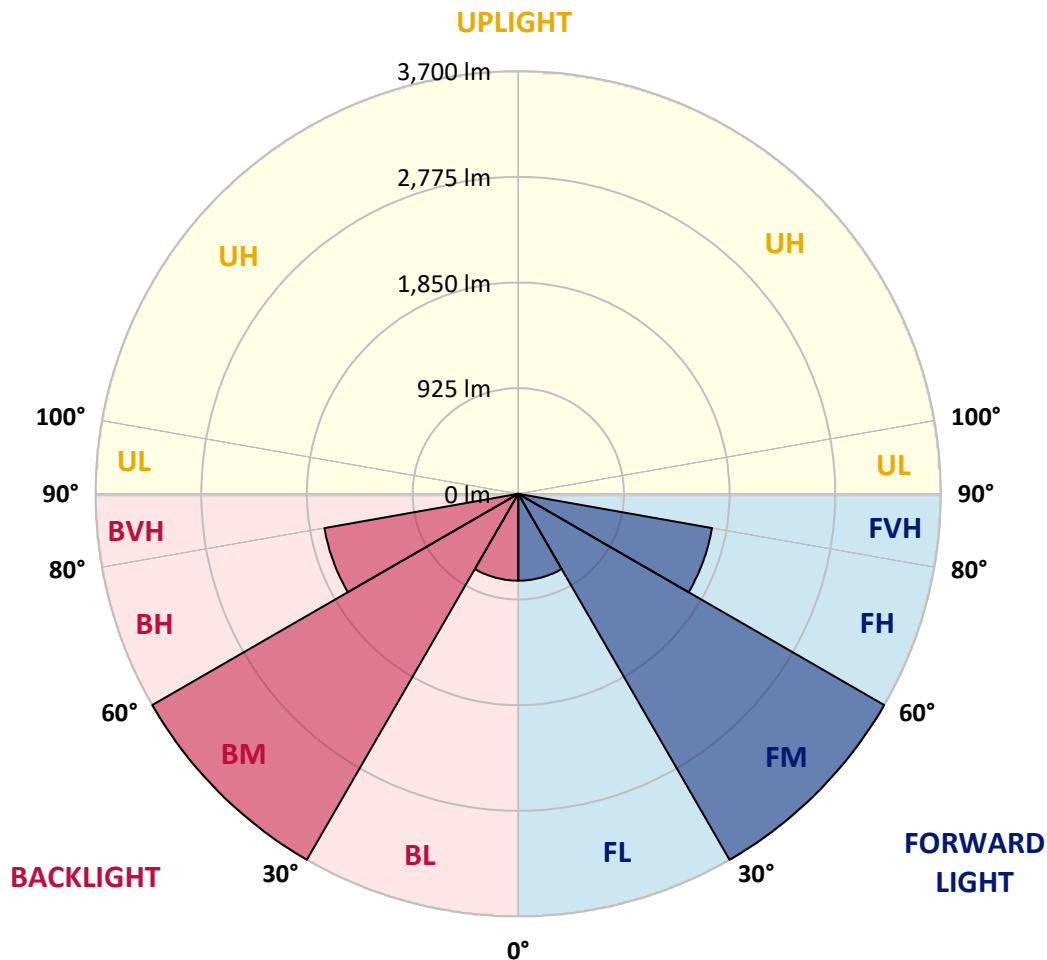
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.4	6.1			
FM (30°-60°)	3699.8	29.8			
FH (60°-80°)	1723.2	13.9			G1/1800
FVH (80°-90°)	21.0	0.2			G1/100
BL (0°-30°)	760.4	6.1	B2/1000		
BM (30°-60°)	3699.8	29.8	B3/5000		
BH (60°-80°)	1723.2	13.9	B3/2500		G1/1800
BVH (80°-90°)	21.0	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°	1499.8	1499.8	1499.8	1499.8	1499.8	1499.8	1499.8	1499.8	1499.8	1499.8	1499.8
2.5°	1505.7	1509.0	1506.4	1505.7	1505.1	1505.1	1505.1	1505.7	1508.3	1510.4	1509.0
5°	1524.8	1527.4	1526.1	1525.5	1524.8	1525.5	1524.1	1523.5	1525.5	1525.5	1524.8
7.5°	1548.4	1551.7	1550.5	1551.7	1552.4	1553.1	1549.8	1547.2	1546.5	1548.4	1547.2
10°	1580.7	1583.3	1583.9	1584.6	1586.0	1585.3	1581.3	1576.7	1576.0	1575.4	1574.8
12.5°	1616.8	1618.8	1619.4	1622.0	1624.1	1624.7	1620.1	1616.1	1609.6	1610.9	1608.2
15°	1657.6	1661.5	1660.9	1664.8	1670.1	1671.4	1666.8	1660.2	1654.2	1651.0	1649.0
17.5°	1707.5	1710.2	1708.8	1712.8	1719.3	1722.6	1718.7	1710.2	1704.2	1697.0	1693.1
20°	1766.7	1771.3	1772.6	1772.6	1778.5	1781.8	1775.9	1773.2	1764.1	1758.8	1755.5
22.5°	1833.7	1835.7	1839.6	1843.6	1849.4	1848.2	1846.2	1842.3	1833.7	1829.1	1823.9
25°	1909.3	1911.3	1921.1	1929.7	1931.6	1930.3	1927.7	1925.7	1917.8	1907.3	1903.4
27.5°	1997.4	2001.3	2014.4	2022.4	2022.4	2023.0	2017.7	2024.3	2007.2	1994.8	1993.4
30°	2107.8	2110.4	2121.6	2129.5	2125.5	2122.3	2120.9	2127.5	2109.1	2086.8	2081.5
32.5°	2216.9	2226.1	2236.0	2253.0	2239.2	2233.3	2232.0	2236.6	2215.5	2190.6	2183.4
35°	2333.9	2340.4	2358.8	2373.3	2360.9	2347.0	2352.9	2367.4	2342.4	2308.9	2307.6
37.5°	2463.4	2469.3	2492.9	2508.0	2498.9	2475.1	2485.1	2502.1	2477.2	2435.8	2427.2
40°	2598.1	2610.5	2640.2	2656.0	2640.8	2609.3	2627.6	2646.0	2623.8	2575.7	2556.6
42.5°	2749.2	2769.0	2811.7	2819.5	2790.7	2748.0	2780.2	2809.7	2794.0	2738.7	2731.5
45°	2926.1	2937.9	2990.4	3007.6	2967.5	2914.2	2954.3	3008.2	2996.4	2932.7	2918.9
47.5°	3123.9	3135.1	3189.6	3215.2	3164.6	3093.0	3165.3	3235.6	3228.3	3160.1	3153.5
50°	3357.9	3360.5	3436.1	3465.0	3414.4	3352.6	3417.0	3504.4	3475.5	3388.1	3386.8
52.5°	3614.2	3617.5	3712.8	3768.6	3740.3	3670.7	3746.9	3800.2	3726.6	3612.2	3603.7
55°	3836.3	3852.8	3982.9	4131.4	4170.2	4119.6	4142.6	4117.6	3936.2	3775.8	3750.9
57.5°	3927.0	3959.3	4157.1	4434.4	4686.8	4761.7	4584.3	4346.4	4019.7	3793.0	3768.6
60°	3705.5	3740.3	4047.3	4573.8	5217.9	5543.2	5044.3	4385.1	3829.7	3511.0	3472.9
62.5°	2967.5	2977.3	3428.8	4245.8	5527.4	6370.0	5238.3	4054.5	3277.0	2843.9	2828.8
64°	2135.4	2236.6	2715.1	3722.6	5392.1	6684.9	5126.5	3591.2	2661.8	2223.4	2152.5
65°	1597.1	1624.7	2188.6	3179.1	5153.5	6661.1	4909.6	3148.2	2204.4	1701.6	1622.7
67.5°	603.3	606.6	807.8	1584.6	3668.7	5731.2	3746.9	1712.8	928.7	671.7	647.4
70°	250.4	255.0	296.5	533.0	1576.7	3679.9	1806.8	617.8	339.8	275.3	271.5
72.5°	183.3	186.0	198.5	236.6	485.0	1511.0	594.2	262.2	199.1	178.1	176.1
75°	143.9	145.2	154.5	174.2	226.1	418.6	247.1	180.1	151.8	136.7	135.4
77.5°	109.8	113.0	119.6	132.8	151.8	198.5	163.7	134.7	117.0	104.5	102.5
80°	75.6	79.6	92.0	97.3	101.8	128.8	111.8	101.8	91.3	76.3	71.7
82.5°	46.7	49.3	61.8	66.4	64.4	72.3	71.7	72.9	65.1	47.3	44.1
85°	24.3	25.7	33.6	34.8	32.2	29.6	36.8	42.7	40.1	26.9	26.3
87.5°	5.3	5.9	7.2	6.6	7.2	7.2	9.2	13.8	14.5	9.2	8.6
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)