

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: P451611

Luminaire Tested: **GALN-SA2C-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13504 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

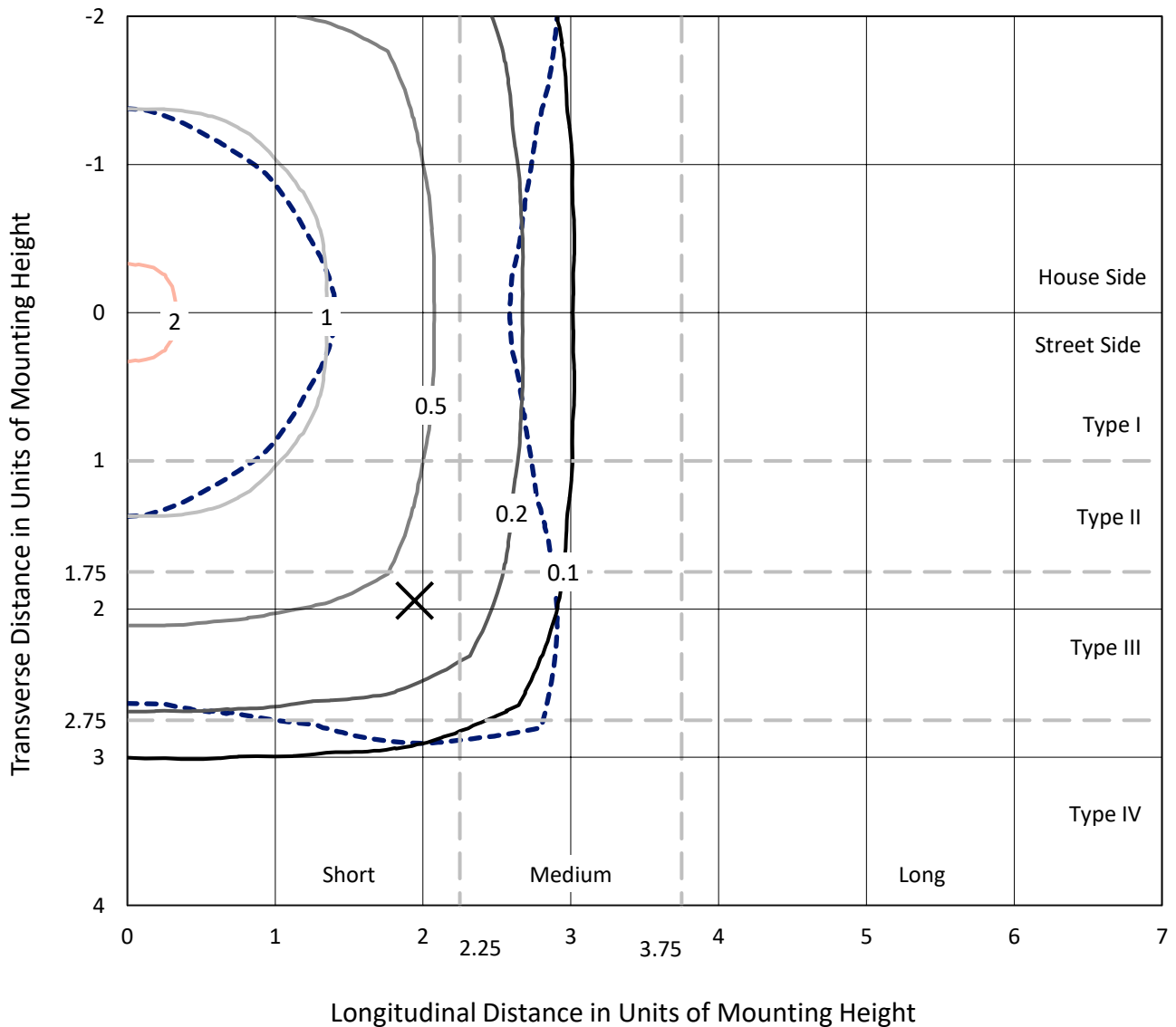
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

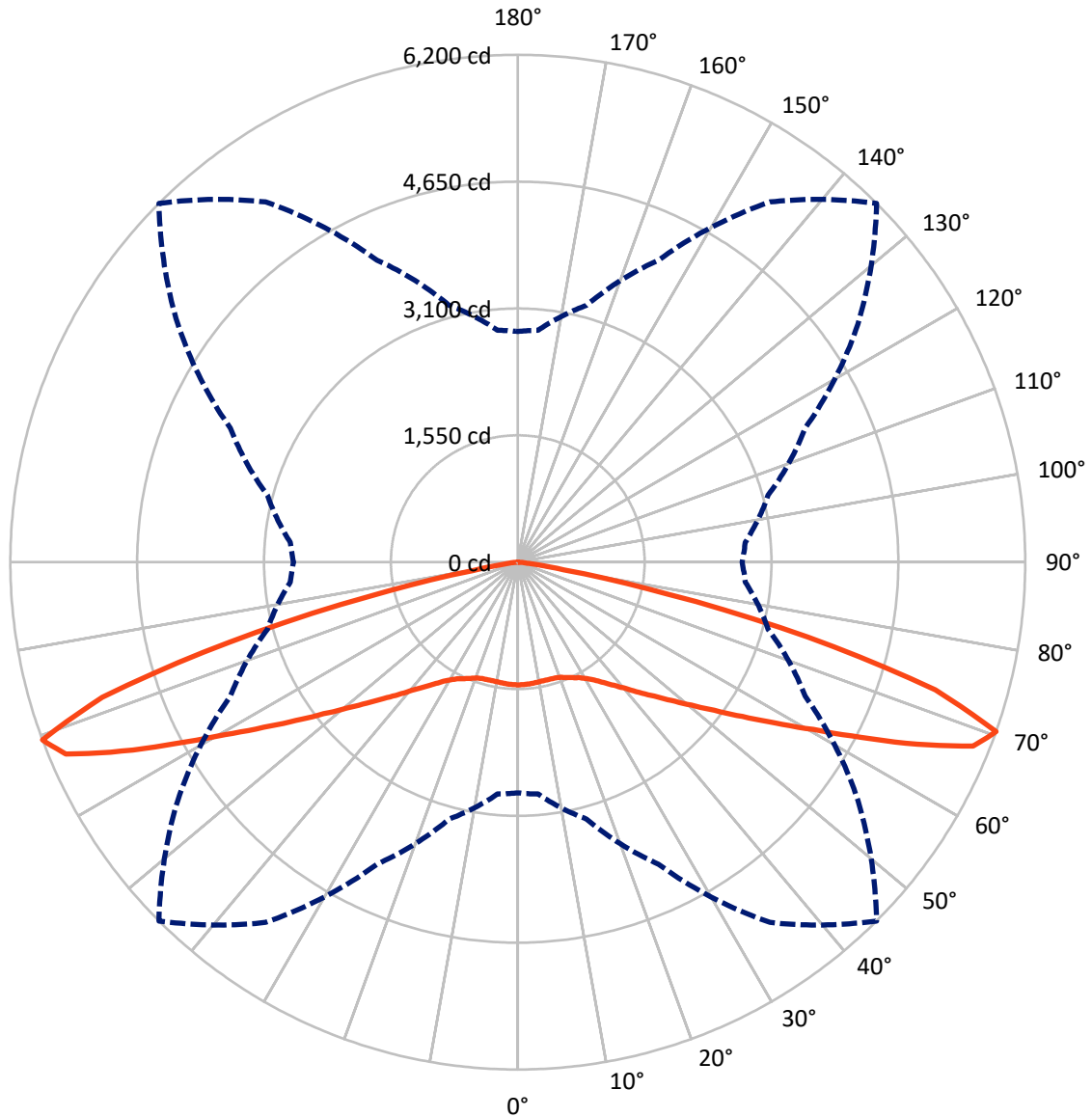
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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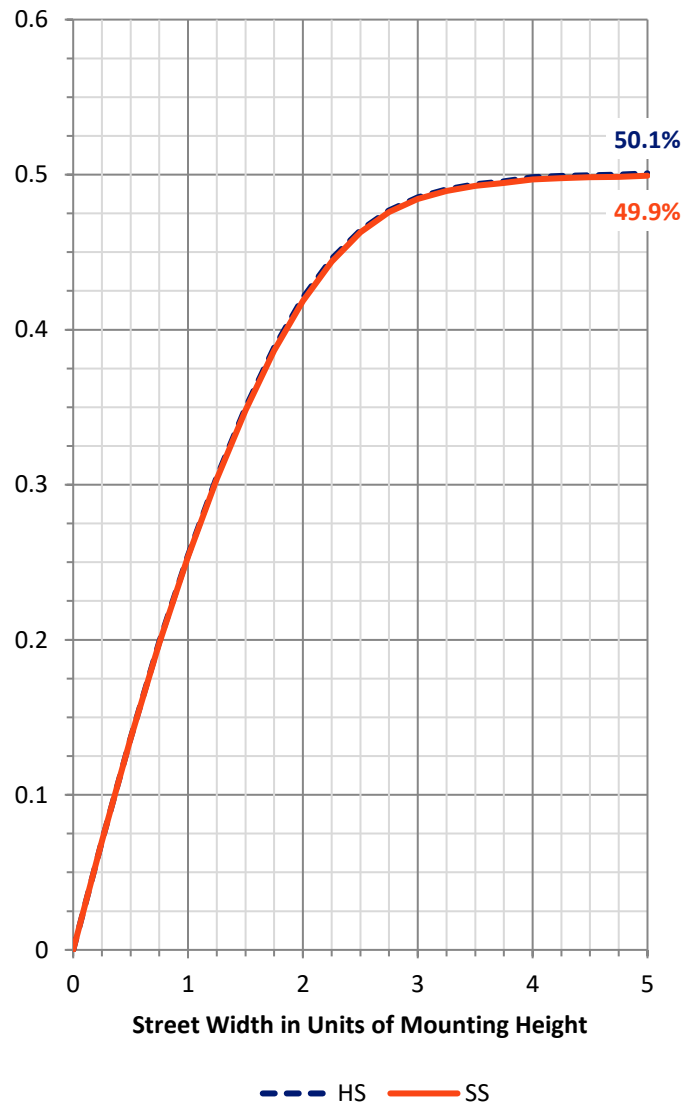
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6752.0	0.0	6752.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6752.0	0.0	6752.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13504.0	0.0	13504.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	1.1
10°-20°	417.3	3.1
20°-30°	713.7	5.3
30°-40°	1132.8	8.4
40°-50°	1827.4	13.5
50°-60°	2973.3	22.0
60°-70°	4310.2	31.9
70°-80°	1911.8	14.2
80°-90°	75.4	0.6
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°	13504.0	100.0
0°-180°	13504.0	100.0



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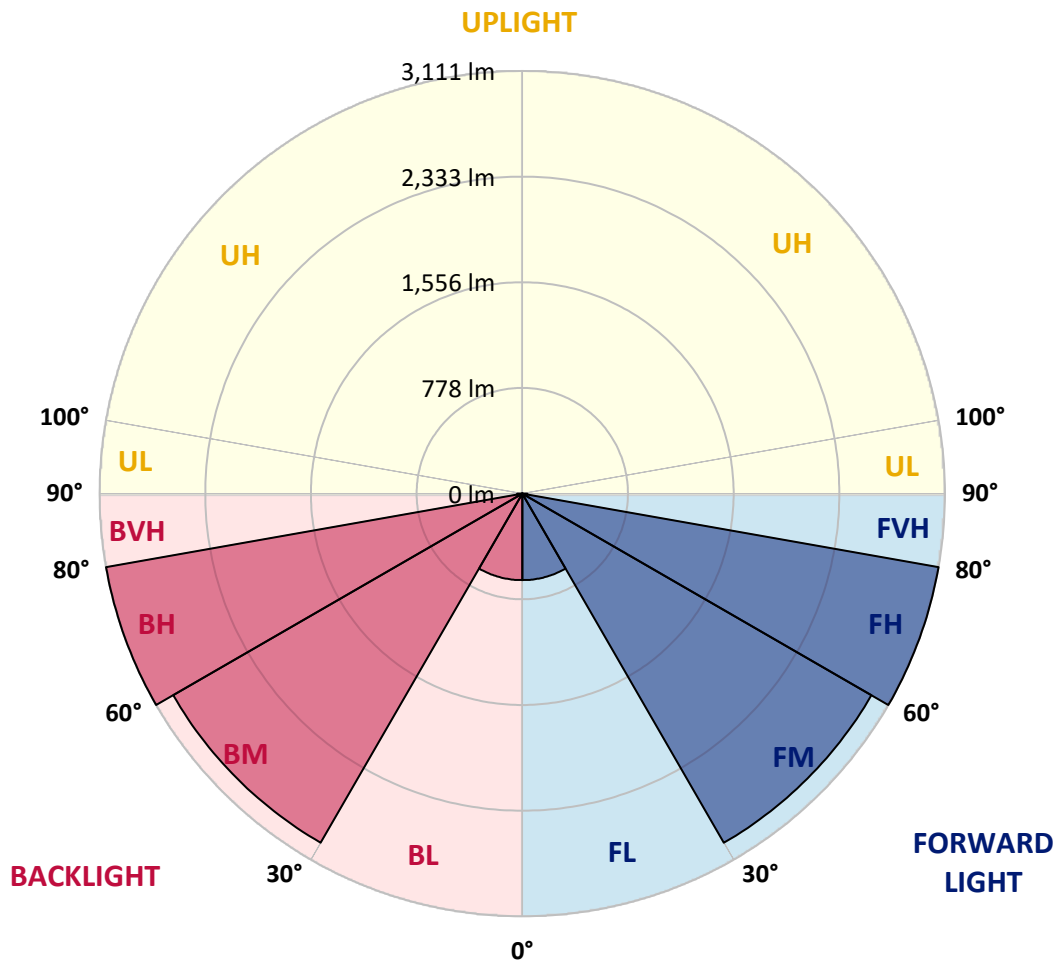
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.6	4.7			
FM (30°-60°)	2966.7	22.0			
FH (60°-80°)	3111.0	23.0			G2/5000
FVH (80°-90°)	37.7	0.3			G1/100
BL (0°-30°)	636.6	4.7	B2/1000		
BM (30°-60°)	2966.7	22.0	B3/5000		
BH (60°-80°)	3111.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	37.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6
2.5°	1499.6	1501.0	1498.8	1497.4	1496.7	1496.7	1496.0	1496.7	1501.0	1501.7	1499.6
5°	1495.3	1496.7	1496.0	1494.6	1493.9	1493.9	1493.2	1492.4	1496.0	1497.4	1496.7
7.5°	1489.6	1490.3	1489.6	1488.9	1489.6	1488.9	1486.7	1485.3	1488.2	1488.2	1487.5
10°	1479.6	1481.1	1480.3	1481.1	1482.5	1482.5	1479.6	1476.8	1477.5	1476.1	1476.1
12.5°	1467.5	1469.7	1470.4	1473.2	1476.8	1481.1	1474.6	1468.2	1466.8	1466.1	1465.4
15°	1459.7	1461.8	1464.7	1467.5	1473.9	1483.2	1473.9	1464.0	1461.1	1458.3	1456.9
17.5°	1457.6	1460.4	1464.7	1469.0	1477.5	1486.7	1478.9	1469.0	1461.8	1457.6	1456.1
20°	1463.3	1465.4	1471.8	1479.6	1491.7	1501.0	1493.2	1482.5	1471.8	1465.4	1463.3
22.5°	1474.6	1478.2	1486.0	1500.3	1517.3	1530.9	1520.2	1502.4	1485.3	1476.8	1473.9
25°	1499.6	1502.4	1511.7	1530.9	1550.8	1563.6	1552.2	1531.6	1508.1	1496.7	1493.2
27.5°	1537.3	1541.5	1551.5	1574.3	1590.7	1597.8	1589.9	1575.7	1558.6	1546.5	1543.7
30°	1590.7	1595.6	1610.6	1634.8	1645.5	1649.7	1646.2	1636.9	1624.8	1612.0	1609.2
32.5°	1662.5	1665.4	1682.5	1705.2	1715.2	1716.6	1712.4	1708.1	1688.2	1666.8	1665.4
35°	1743.0	1747.9	1768.6	1795.6	1804.9	1805.6	1797.0	1790.6	1767.2	1750.1	1750.1
37.5°	1849.7	1851.8	1871.8	1902.4	1912.3	1909.5	1905.2	1899.5	1874.6	1852.6	1853.3
40°	1975.0	1979.2	1996.3	2031.9	2031.9	2028.3	2031.2	2026.9	2002.0	1980.7	1981.4
42.5°	2123.7	2125.9	2146.5	2184.2	2181.4	2174.2	2177.1	2171.4	2155.7	2131.5	2123.0
45°	2282.4	2291.0	2326.6	2362.8	2357.2	2334.4	2345.8	2344.3	2330.1	2293.8	2295.9
47.5°	2473.9	2488.1	2522.3	2565.7	2559.3	2523.7	2536.5	2545.0	2525.1	2485.3	2478.1
50°	2689.5	2698.8	2749.3	2789.9	2784.2	2746.5	2775.6	2777.1	2727.2	2671.0	2671.0
52.5°	2919.4	2928.7	2997.0	3060.3	3063.9	3009.1	3032.6	3031.1	2950.0	2876.0	2861.8
55°	3177.0	3181.3	3269.6	3362.8	3382.7	3329.3	3332.2	3303.7	3198.4	3112.3	3104.4
57.5°	3443.2	3458.9	3556.4	3677.4	3736.4	3703.7	3688.8	3612.6	3510.8	3411.9	3406.9
60°	3737.9	3738.6	3865.3	4008.3	4127.9	4149.9	4088.7	3987.0	3855.3	3724.3	3718.6
62.5°	3942.1	3972.7	4132.9	4374.8	4589.1	4712.9	4551.3	4337.8	4078.8	3867.4	3846.0
65°	3984.1	4004.7	4248.9	4658.8	5096.5	5363.4	4989.7	4535.7	4093.7	3811.9	3797.6
67.5°	3644.6	3666.7	3995.5	4624.6	5452.3	5999.6	5274.4	4440.3	3840.3	3491.6	3463.9
70°	2819.1	2844.0	3250.3	4070.9	5373.3	6199.6	5071.6	3873.1	3167.1	2790.6	2740.1
72.5°	1498.8	1590.7	1938.0	2794.1	4361.3	5337.8	4158.5	2826.2	2042.6	1669.7	1602.8
75°	547.3	558.7	752.3	1239.1	2537.2	3660.3	2634.7	1348.0	775.0	598.5	567.9
77.5°	226.3	225.6	247.7	374.4	921.7	1874.6	1028.4	395.7	247.0	228.5	225.6
80°	133.8	133.8	147.3	155.9	242.7	565.8	271.2	176.5	148.0	135.2	137.4
82.5°	59.8	63.3	93.2	98.2	117.4	155.2	131.0	112.4	96.8	66.9	60.5
85°	32.7	28.5	49.1	51.2	56.2	57.6	61.9	61.2	56.2	32.7	33.4
87.5°	6.4	7.8	14.2	10.7	12.1	10.7	14.2	19.9	20.6	11.4	9.3
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)