

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: P458687

Luminaire Tested: **GALN-SA2C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458687
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-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 13813 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

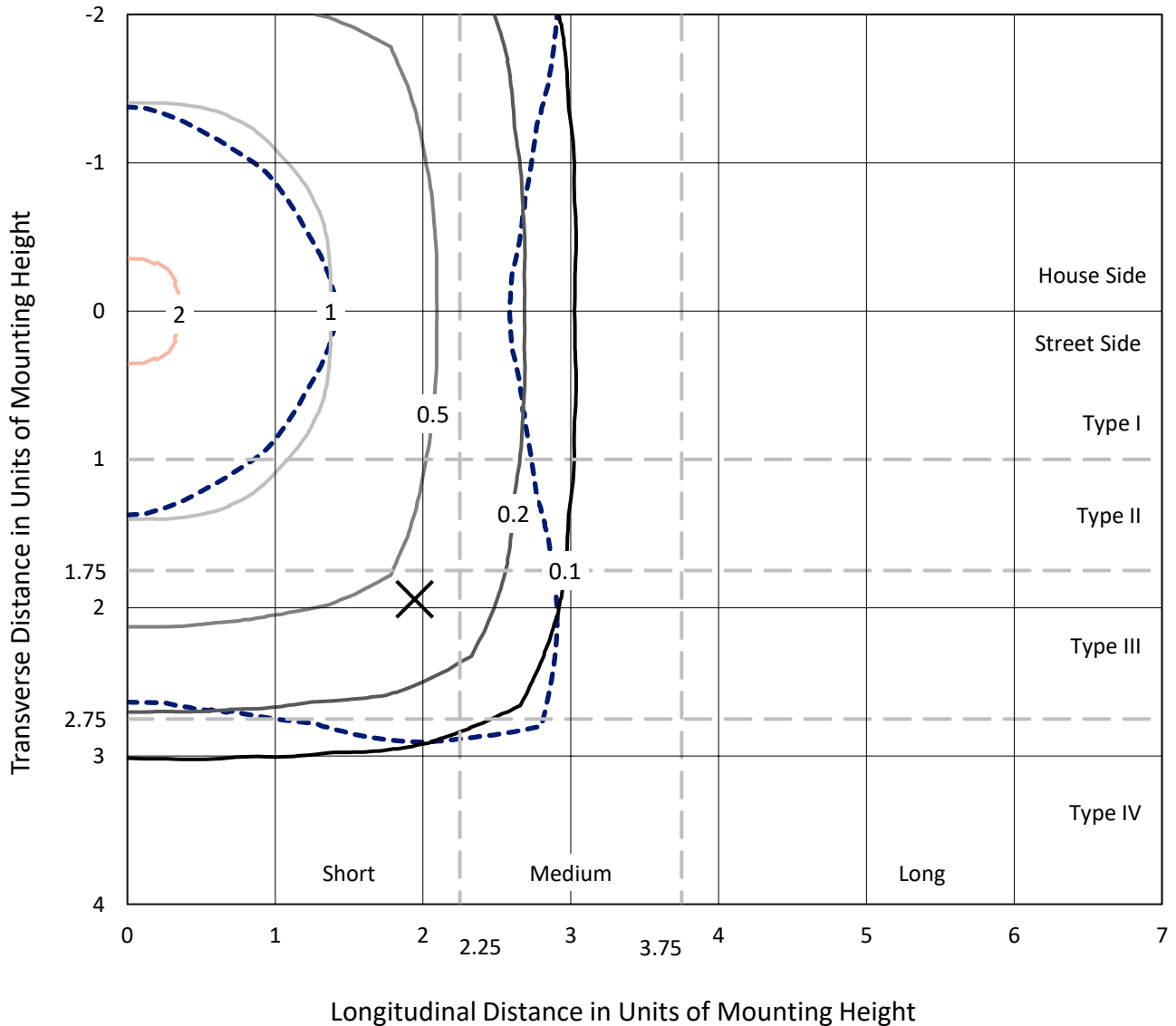
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

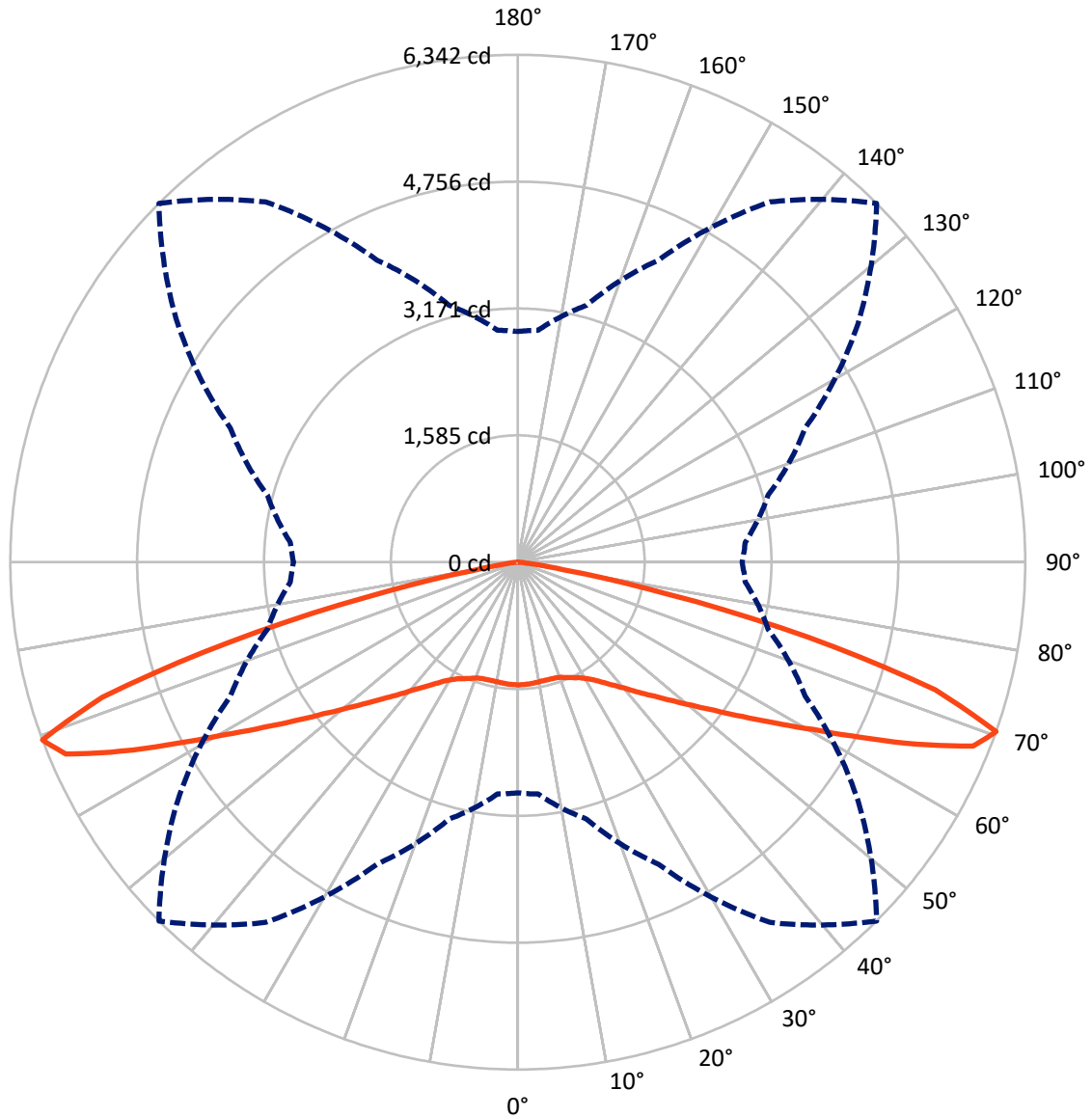
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	6906.5	0.0	6906.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6906.5	0.0	6906.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13813.0	0.0	13813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.1
10°-20°	426.8	3.1
20°-30°	730.0	5.3
30°-40°	1158.7	8.4
40°-50°	1869.2	13.5
50°-60°	3041.3	22.0
60°-70°	4408.8	31.9
70°-80°	1955.6	14.2
80°-90°	77.1	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°	13813.0	100.0
0°-180°	13813.0	100.0

Coefficient of Utilization



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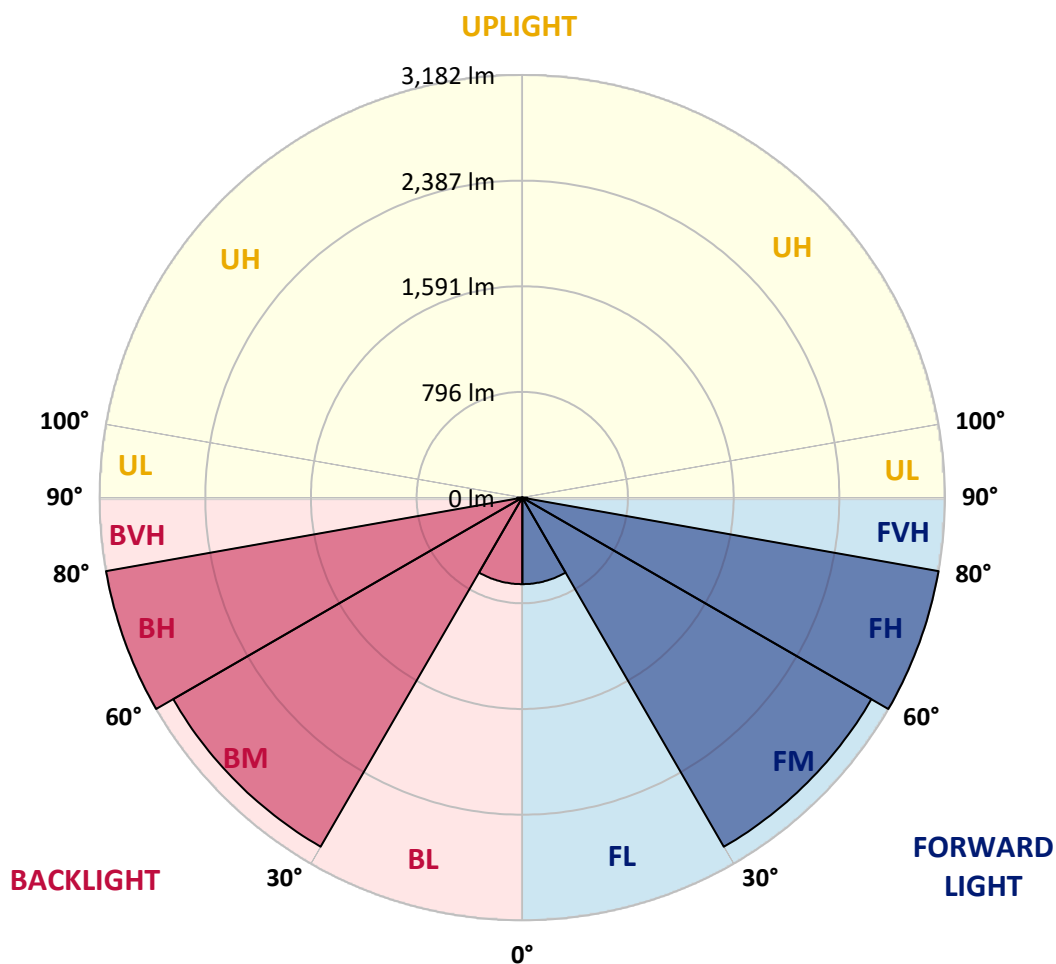
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.1	4.7			
FM (30°-60°)	3034.6	22.0			
FH (60°-80°)	3182.2	23.0			G2/5000
FVH (80°-90°)	38.6	0.3			G1/100
BL (0°-30°)	651.1	4.7	B2/1000		
BM (30°-60°)	3034.6	22.0	B3/5000		
BH (60°-80°)	3182.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	38.6	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°	1533.9	1533.9	1533.9	1533.9	1533.9	1533.9	1533.9	1533.9	1533.9	1533.9	1533.9
2.5°	1533.9	1535.3	1533.1	1531.7	1531.0	1531.0	1530.2	1531.0	1535.3	1536.1	1533.9
5°	1529.5	1531.0	1530.2	1528.8	1528.0	1528.0	1527.3	1526.6	1530.2	1531.7	1531.0
7.5°	1523.7	1524.4	1523.7	1522.9	1523.7	1522.9	1520.8	1519.3	1522.2	1522.2	1521.5
10°	1513.5	1514.9	1514.2	1514.9	1516.4	1516.4	1513.5	1510.6	1511.3	1509.8	1509.8
12.5°	1501.1	1503.3	1504.0	1506.9	1510.6	1514.9	1508.4	1501.8	1500.4	1499.7	1498.9
15°	1493.1	1495.3	1498.2	1501.1	1507.7	1517.1	1507.7	1497.5	1494.6	1491.6	1490.2
17.5°	1490.9	1493.8	1498.2	1502.6	1511.3	1520.8	1512.8	1502.6	1495.3	1490.9	1489.5
20°	1496.7	1498.9	1505.5	1513.5	1525.9	1535.3	1527.3	1516.4	1505.5	1498.9	1496.7
22.5°	1508.4	1512.0	1520.0	1534.6	1552.1	1565.9	1555.0	1536.8	1519.3	1510.6	1507.7
25°	1533.9	1536.8	1546.2	1565.9	1586.3	1599.4	1587.7	1566.6	1542.6	1531.0	1527.3
27.5°	1572.5	1576.8	1587.0	1610.3	1627.1	1634.3	1626.3	1611.8	1594.3	1581.9	1579.0
30°	1627.1	1632.1	1647.4	1672.2	1683.1	1687.5	1683.8	1674.4	1662.0	1648.9	1646.0
32.5°	1700.6	1703.5	1721.0	1744.3	1754.4	1755.9	1751.5	1747.2	1726.8	1704.9	1703.5
35°	1782.8	1787.9	1809.0	1836.7	1846.2	1846.9	1838.2	1831.6	1807.6	1790.1	1790.1
37.5°	1892.0	1894.2	1914.6	1945.9	1956.1	1953.2	1948.8	1943.0	1917.5	1895.0	1895.7
40°	2020.2	2024.5	2042.0	2078.4	2078.4	2074.8	2077.7	2073.3	2047.8	2026.0	2026.7
42.5°	2172.3	2174.5	2195.6	2234.2	2231.3	2224.0	2226.9	2221.1	2205.1	2180.3	2171.6
45°	2334.7	2343.4	2379.8	2416.9	2411.1	2387.8	2399.4	2398.0	2383.4	2346.3	2348.5
47.5°	2530.5	2545.0	2580.0	2624.4	2617.8	2581.4	2594.5	2603.3	2582.9	2542.1	2534.9
50°	2751.1	2760.5	2812.2	2853.7	2847.9	2809.3	2839.1	2840.6	2789.6	2732.1	2732.1
52.5°	2986.2	2995.7	3065.6	3130.3	3134.0	3077.9	3102.0	3100.5	3017.5	2941.8	2927.2
55°	3249.7	3254.1	3344.4	3439.7	3460.1	3405.5	3408.4	3379.3	3271.6	3183.5	3175.5
57.5°	3522.0	3538.0	3637.8	3761.5	3821.9	3788.4	3773.2	3695.3	3591.2	3490.0	3484.9
60°	3823.4	3824.1	3953.7	4100.0	4222.3	4244.9	4182.3	4078.2	3943.5	3809.6	3803.7
62.5°	4032.3	4063.6	4227.4	4474.9	4694.1	4820.7	4655.5	4437.1	4172.1	3955.9	3934.0
65°	4075.3	4096.4	4346.1	4765.4	5213.1	5486.1	5103.9	4639.5	4187.4	3899.1	3884.5
67.5°	3728.0	3750.6	4086.9	4730.5	5577.1	6136.9	5395.1	4541.9	3928.2	3571.5	3543.1
70°	2883.6	2909.0	3324.7	4164.1	5496.3	6341.5	5187.6	3961.7	3239.5	2854.4	2802.7
72.5°	1533.1	1627.1	1982.3	2858.1	4461.1	5459.9	4253.6	2890.8	2089.3	1707.9	1639.4
75°	559.8	571.5	769.5	1267.4	2595.3	3744.0	2695.0	1378.8	792.8	612.2	580.9
77.5°	231.5	230.8	253.3	382.9	942.7	1917.5	1051.9	404.8	252.6	233.7	230.8
80°	136.9	136.9	150.7	159.4	248.2	578.7	277.4	180.5	151.4	138.3	140.5
82.5°	61.2	64.8	95.4	100.5	120.1	158.7	133.9	115.0	99.0	68.4	61.9
85°	33.5	29.1	50.2	52.4	57.5	59.0	63.3	62.6	57.5	33.5	34.2
87.5°	6.6	8.0	14.6	10.9	12.4	10.9	14.6	20.4	21.1	11.6	9.5
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)