

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633230

Luminaire Tested: GWS-SA2E-735-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14903.3 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

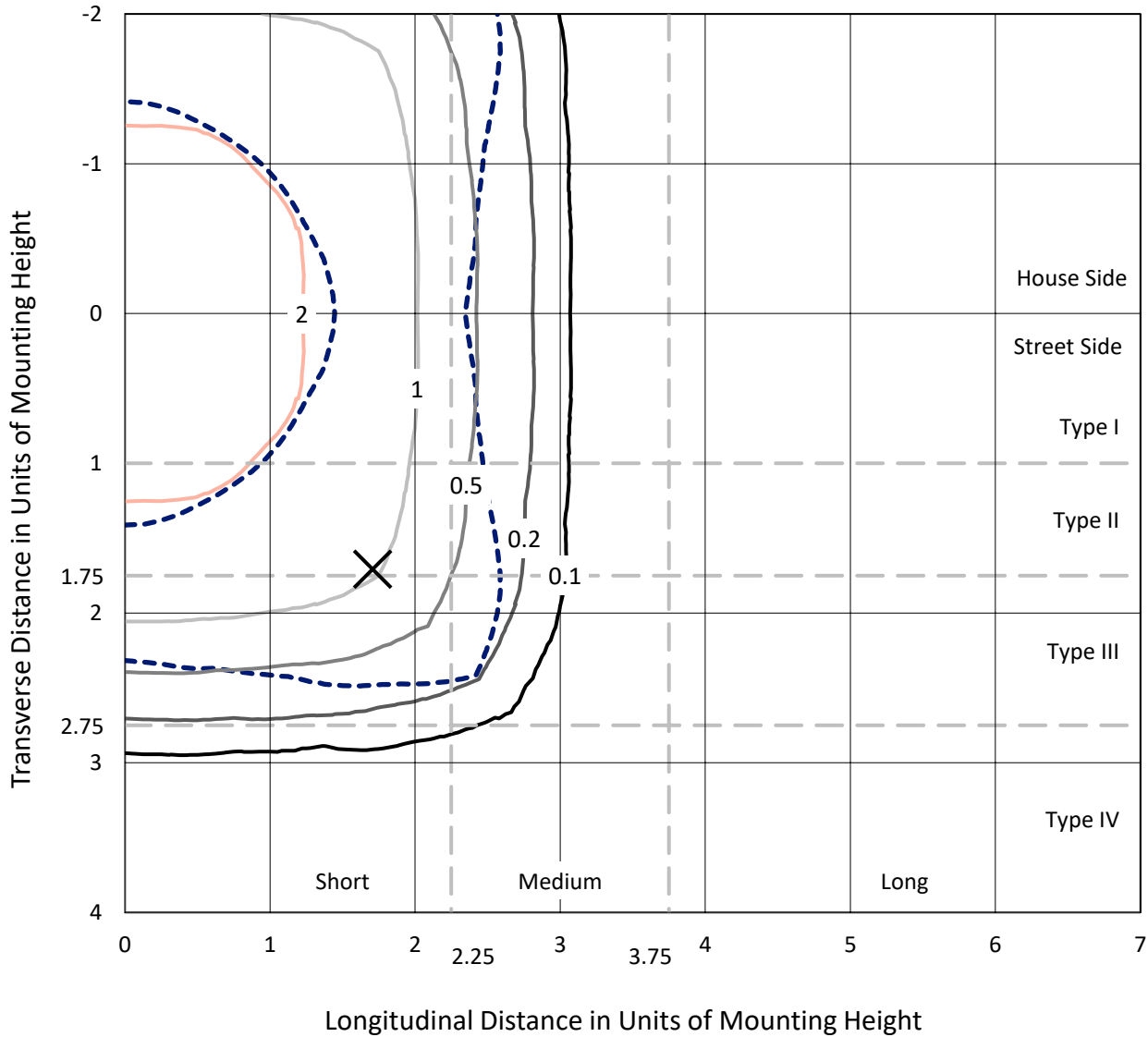
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

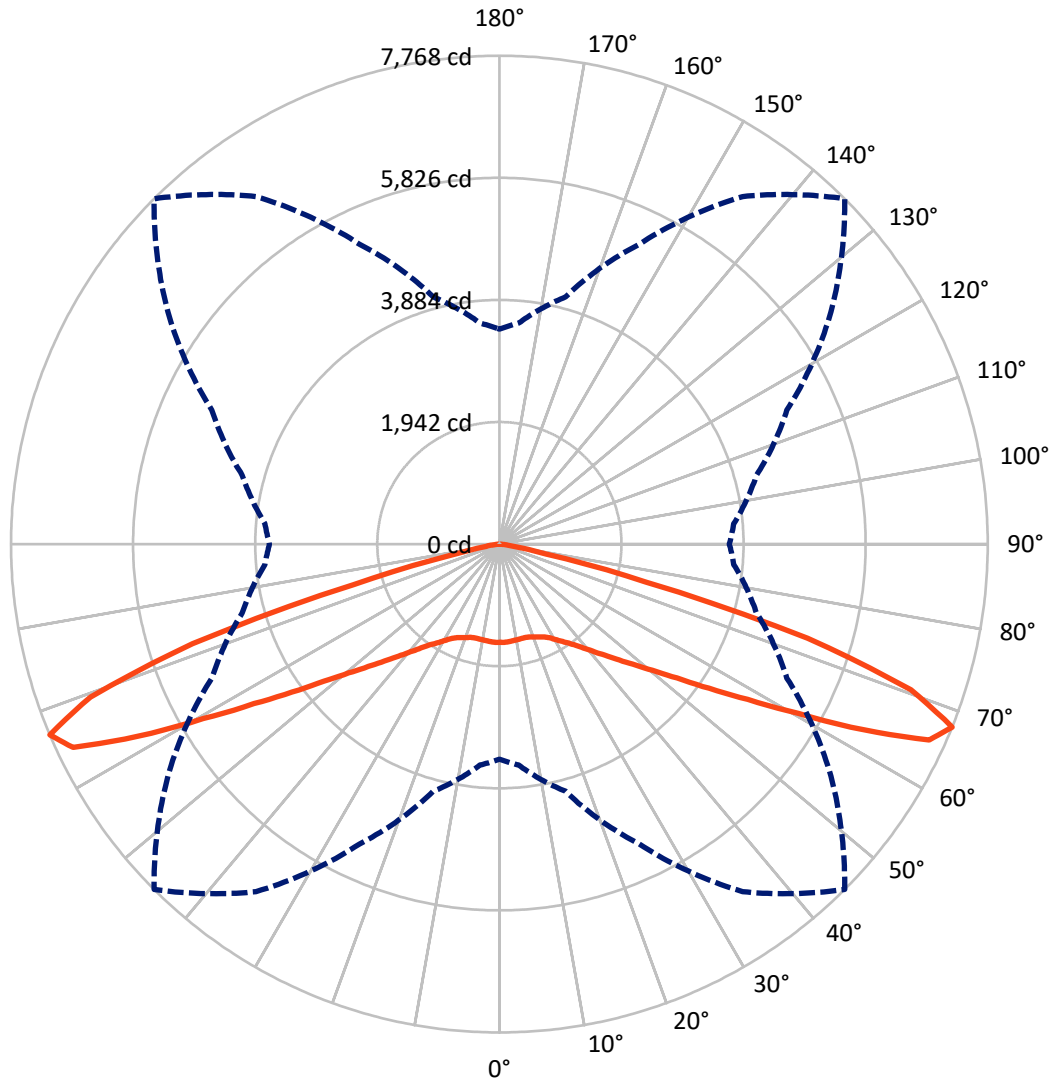
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7451.6	0.0	7451.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7451.6	0.0	7451.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14903.3	0.0	14903.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.0
10°-20°	433.9	2.9
20°-30°	748.3	5.0
30°-40°	1216.8	8.2
40°-50°	2048.9	13.7
50°-60°	3630.3	24.4
60°-70°	5189.2	34.8
70°-80°	1424.2	9.6
80°-90°	63.8	0.4
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°	14903.3	100.0
0°-180°	14903.3	100.0

Coefficient of Utilization



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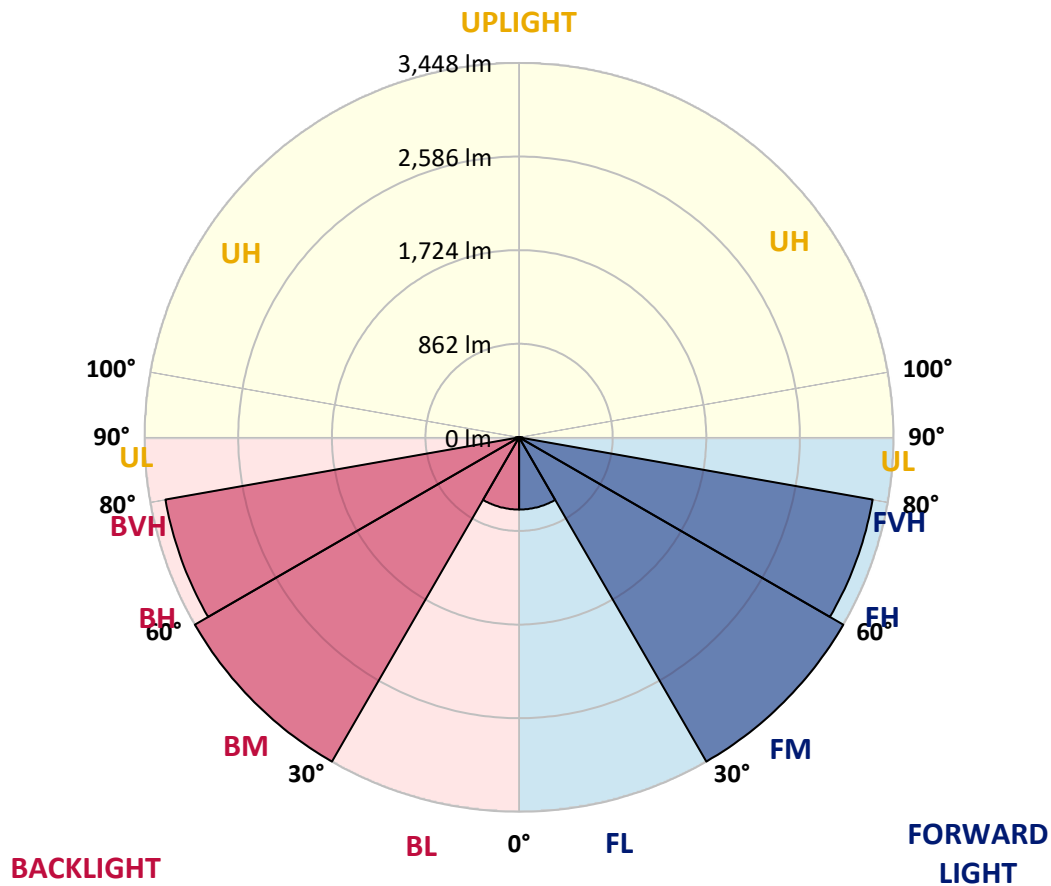
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.0	4.5			
FM (30°-60°)	3448.0	23.1			
FH (60°-80°)	3306.7	22.2			G2/5000
FVH (80°-90°)	31.9	0.2			G1/100
BL (0°-30°)	665.0	4.5	B2/1000		
BM (30°-60°)	3448.0	23.1	B3/5000		
BH (60°-80°)	3306.7	22.2	B4/5000		G2/5000
BVH (80°-90°)	31.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1560.9	1560.9	1560.9	1560.9	1560.9	1560.9	1560.9	1560.9	1560.9	1560.9	1560.9
2.5°	1550.5	1549.5	1554.7	1557.8	1556.7	1564.0	1562.9	1560.9	1560.9	1557.8	1566.0
5°	1550.5	1549.5	1553.6	1554.7	1552.6	1558.8	1556.7	1554.7	1554.7	1550.5	1557.8
7.5°	1542.3	1543.3	1546.4	1548.5	1546.4	1551.6	1548.5	1544.4	1543.3	1539.2	1546.4
10°	1526.8	1527.8	1530.9	1536.1	1537.1	1546.4	1541.3	1534.0	1530.9	1526.8	1534.0
12.5°	1517.5	1518.6	1521.7	1527.8	1529.9	1542.3	1537.1	1525.8	1520.6	1516.5	1523.7
15°	1515.5	1516.5	1520.6	1526.8	1529.9	1542.3	1537.1	1523.7	1516.5	1511.3	1517.5
17.5°	1515.5	1517.5	1523.7	1533.0	1539.2	1551.6	1545.4	1529.9	1519.6	1510.3	1516.5
20°	1516.5	1519.6	1528.9	1542.3	1557.8	1575.3	1567.0	1546.4	1532.0	1520.6	1524.8
22.5°	1525.8	1530.9	1542.3	1559.8	1582.5	1603.2	1595.9	1568.1	1547.4	1532.0	1536.1
25°	1557.8	1559.8	1574.3	1597.0	1618.6	1636.2	1628.9	1603.2	1577.4	1558.8	1564.0
27.5°	1614.5	1619.7	1632.0	1655.8	1674.3	1683.6	1682.6	1665.1	1639.3	1622.8	1626.9
30°	1682.6	1687.7	1704.3	1731.1	1749.6	1760.0	1756.9	1743.5	1719.7	1697.0	1701.2
32.5°	1762.0	1764.1	1783.7	1813.6	1833.2	1848.7	1838.4	1823.9	1794.0	1767.2	1769.2
35°	1863.1	1866.2	1886.9	1914.7	1930.2	1942.6	1940.5	1926.1	1894.1	1865.2	1872.4
37.5°	1990.0	1992.1	2010.6	2045.7	2058.1	2067.4	2069.5	2062.2	2029.2	1992.1	1999.3
40°	2147.9	2148.9	2169.5	2200.5	2213.9	2220.1	2221.1	2222.1	2188.1	2160.2	2158.2
42.5°	2331.5	2336.6	2365.5	2395.4	2401.6	2398.5	2408.9	2419.2	2386.2	2348.0	2351.1
45°	2551.2	2554.3	2593.5	2626.5	2615.2	2604.9	2624.5	2645.1	2615.2	2565.7	2551.2
47.5°	2811.2	2817.4	2859.7	2892.7	2874.1	2855.6	2887.5	2909.2	2860.7	2808.1	2794.7
50°	3105.2	3109.3	3169.2	3210.4	3188.8	3154.7	3195.0	3217.7	3152.7	3087.7	3058.8
52.5°	3452.9	3444.6	3524.1	3596.3	3582.9	3538.5	3571.5	3575.6	3478.7	3386.8	3358.0
55°	3876.9	3868.6	3948.1	4027.5	4060.5	4049.2	4033.7	4008.9	3865.5	3767.5	3740.7
57.5°	4371.0	4345.2	4456.6	4563.9	4636.2	4656.8	4590.8	4533.0	4419.5	4298.8	4267.9
60°	4830.1	4829.1	5005.5	5191.2	5389.2	5471.8	5304.6	5147.8	4893.0	4673.3	4628.9
62.5°	4959.1	4980.7	5269.6	5729.7	6218.7	6510.6	6070.1	5551.2	5059.1	4728.0	4669.2
65°	4641.3	4695.0	5105.5	5831.8	6797.4	7511.3	6516.8	5560.5	4874.5	4461.8	4399.9
67.5°	3420.9	3528.2	4071.8	5262.4	6747.9	7768.2	6437.4	5045.7	4233.8	3742.8	3657.1
70°	1687.7	1789.9	2221.1	3462.2	5552.2	6943.9	5569.8	3802.6	2859.7	2387.2	2308.8
72.5°	621.0	662.3	831.5	1481.4	3063.9	5129.3	3808.8	2124.1	1385.5	1102.8	1050.2
75°	304.3	311.6	337.3	497.2	1130.7	2414.0	1789.9	815.0	509.6	443.6	429.2
77.5°	193.9	197.0	209.4	237.3	363.1	760.3	542.6	321.9	249.7	239.3	239.3
80°	108.3	111.4	127.9	147.5	170.2	261.0	195.0	192.9	164.0	143.4	140.3
82.5°	51.6	56.7	81.5	80.5	89.8	131.0	114.5	104.2	105.2	79.4	75.3
85°	23.7	23.7	32.0	38.2	40.2	44.4	52.6	59.8	58.8	40.2	43.3
87.5°	11.3	11.3	11.3	10.3	9.3	8.3	11.3	18.6	26.8	18.6	17.5
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)