

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: P633731

Luminaire Tested: GWS-SA2F-735-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16221.1 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

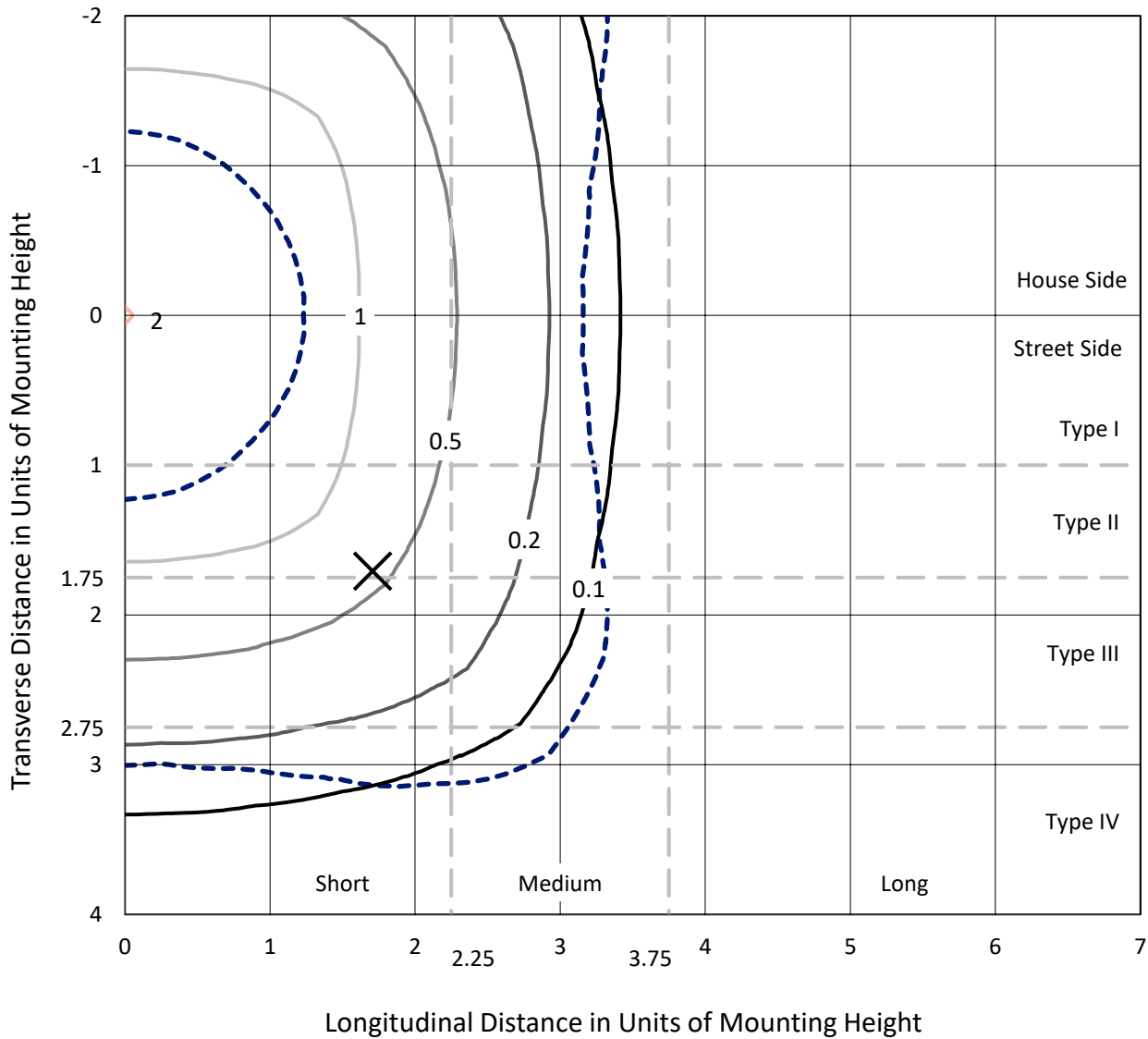
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

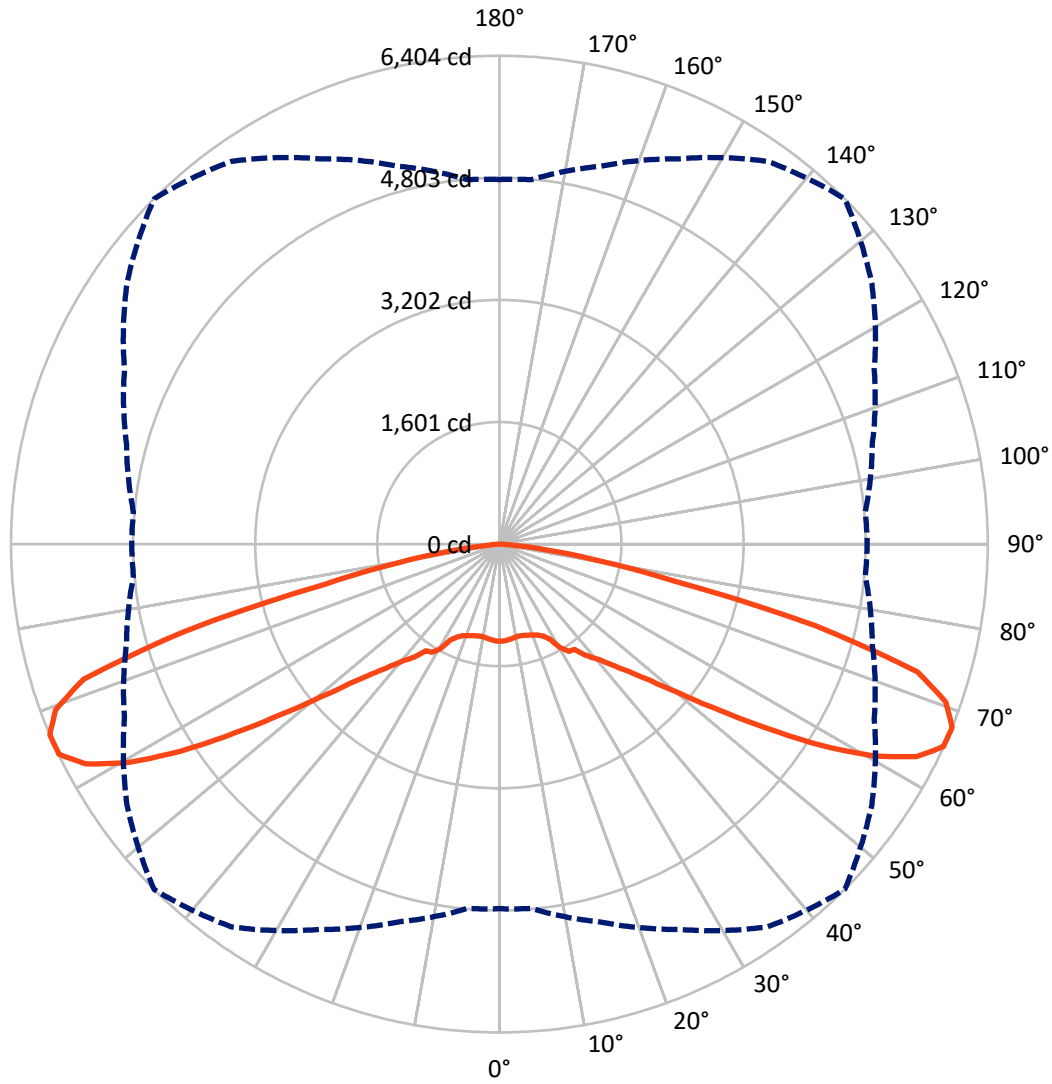
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	8110.5	0.0	8110.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8110.5	0.0	8110.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16221.1	0.0	16221.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	0.7
10°-20°	354.4	2.2
20°-30°	635.8	3.9
30°-40°	1074.1	6.6
40°-50°	1887.1	11.6
50°-60°	3640.4	22.4
60°-70°	5281.7	32.6
70°-80°	3021.9	18.6
80°-90°	206.2	1.3
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°	16221.1	100.0
0°-180°	16221.1	100.0

Coefficient of Utilization



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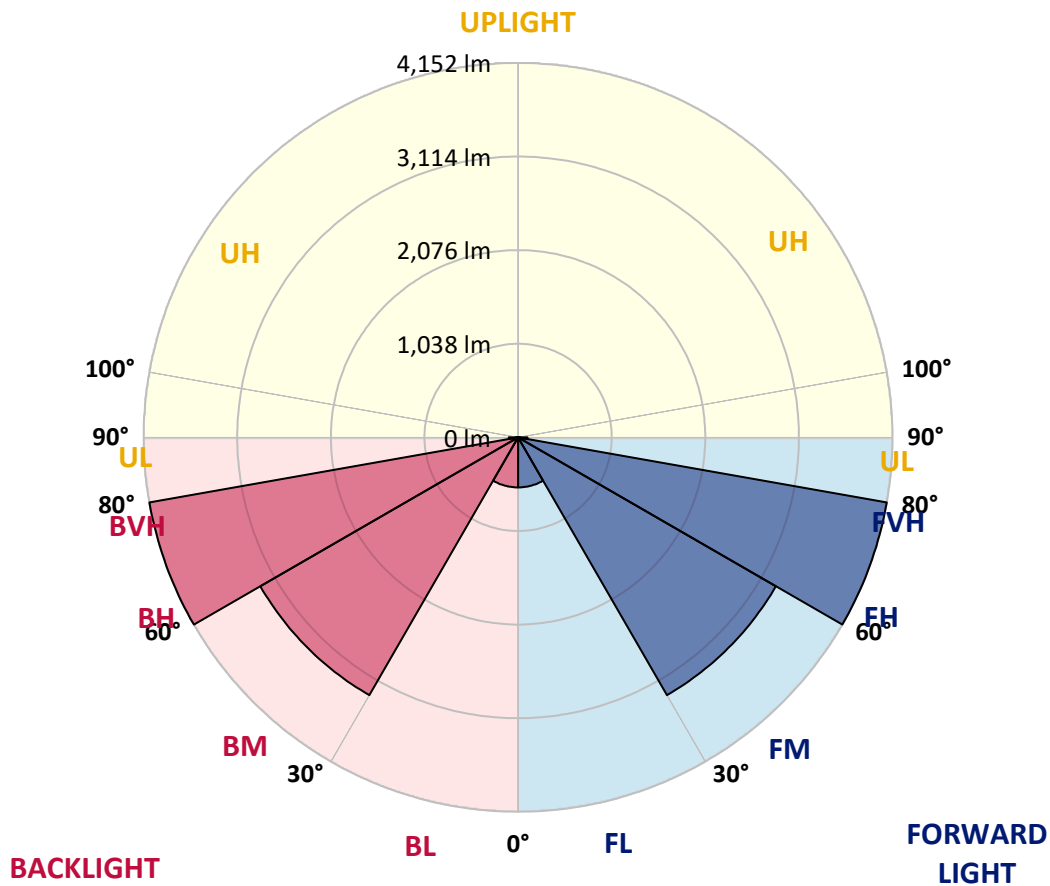
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.8	3.4			
FM (30°-60°)	3300.8	20.3			
FH (60°-80°)	4151.8	25.6			G2/5000
FVH (80°-90°)	103.1	0.6			G2/225
BL (0°-30°)	554.8	3.4	B2/1000		
BM (30°-60°)	3300.8	20.3	B3/5000		
BH (60°-80°)	4151.8	25.6	B4/5000		G2/5000
BVH (80°-90°)	103.1	0.6			G2/225
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°	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1
2.5°	1261.7	1262.9	1265.2	1265.2	1267.5	1270.9	1272.1	1269.8	1270.9	1265.2	1270.9
5°	1258.3	1259.4	1260.6	1258.3	1258.3	1259.4	1259.4	1257.2	1258.3	1252.6	1258.3
7.5°	1250.3	1251.4	1251.4	1248.0	1244.5	1246.8	1246.8	1244.5	1245.7	1239.9	1246.8
10°	1243.4	1243.4	1242.2	1235.4	1231.9	1235.4	1236.5	1237.7	1242.2	1237.7	1245.7
12.5°	1248.0	1248.0	1244.5	1235.4	1229.6	1231.9	1234.2	1236.5	1244.5	1243.4	1252.6
15°	1260.6	1261.7	1252.6	1242.2	1238.8	1242.2	1239.9	1238.8	1249.1	1252.6	1262.9
17.5°	1270.9	1270.9	1259.4	1249.1	1250.3	1256.0	1251.4	1245.7	1256.0	1262.9	1274.4
20°	1280.1	1278.9	1266.3	1259.4	1264.0	1272.1	1268.6	1260.6	1267.5	1275.5	1285.8
22.5°	1303.0	1301.9	1288.1	1284.7	1289.3	1297.3	1293.9	1287.0	1295.0	1306.5	1319.1
25°	1368.4	1366.1	1345.5	1334.0	1331.7	1337.4	1336.3	1334.0	1346.6	1360.4	1375.3
27.5°	1455.6	1454.4	1439.5	1428.1	1413.2	1408.6	1412.0	1422.3	1440.7	1451.0	1463.6
30°	1499.2	1499.2	1496.9	1515.2	1547.4	1578.3	1554.2	1515.2	1499.2	1494.6	1507.2
32.5°	1556.5	1562.3	1554.2	1574.9	1628.8	1674.7	1628.8	1565.7	1554.2	1554.2	1568.0
35°	1688.4	1690.7	1678.1	1674.7	1691.9	1697.6	1675.8	1652.9	1665.5	1667.8	1685.0
37.5°	1794.0	1794.0	1788.2	1797.4	1833.0	1854.8	1819.2	1777.9	1781.4	1783.6	1805.4
40°	1956.8	1961.4	1947.7	1946.5	1960.3	1979.8	1941.9	1915.6	1933.9	1939.6	1972.9
42.5°	2159.9	2159.9	2139.2	2133.5	2142.7	2163.3	2127.8	2110.6	2134.6	2139.2	2158.7
45°	2401.9	2407.6	2380.1	2369.8	2374.4	2381.3	2356.0	2348.0	2370.9	2381.3	2415.7
47.5°	2696.7	2702.4	2678.3	2677.2	2672.6	2677.2	2653.1	2648.5	2666.9	2658.8	2695.5
50°	3060.3	3070.6	3050.0	3078.7	3075.2	3089.0	3055.7	3031.6	3031.6	3009.8	3030.5
52.5°	3467.5	3488.1	3498.5	3546.6	3583.3	3617.8	3562.7	3524.8	3469.8	3425.1	3481.3
55°	3911.4	3905.7	3971.0	4076.6	4184.4	4265.8	4158.0	4038.7	3949.3	3856.3	3878.1
57.5°	4300.2	4319.7	4405.8	4598.5	4811.8	4983.9	4790.0	4560.6	4357.6	4224.5	4242.9
60°	4623.7	4639.8	4754.5	5032.1	5404.8	5642.3	5334.9	4956.4	4661.6	4478.0	4497.5
62.5°	4921.9	4936.9	5052.7	5359.0	5829.2	6138.9	5742.1	5224.8	4896.7	4712.0	4723.5
65°	5094.0	5103.2	5261.5	5583.8	6079.3	6399.3	5952.0	5418.6	5096.3	4908.2	4915.1
67.5°	4780.9	4795.8	5129.6	5574.6	6127.5	6403.9	5961.2	5424.3	5061.9	4816.4	4822.1
70°	3771.5	3758.8	4156.9	4921.9	5851.0	6211.2	5696.2	5017.1	4457.4	4114.4	4108.7
72.5°	2875.6	2879.1	3100.4	3624.6	4770.5	5731.7	5026.3	4039.9	3436.5	3176.1	3165.8
75°	2085.3	2117.4	2297.5	2681.8	3336.7	4284.2	3784.1	2993.8	2590.0	2434.0	2411.1
77.5°	939.4	980.7	1231.9	1683.9	2231.0	2367.5	2376.7	2032.6	1533.6	1274.4	1234.2
80°	274.1	293.6	377.4	645.8	1039.2	1343.2	1066.7	897.0	558.6	438.2	417.5
82.5°	115.9	131.9	161.7	178.9	301.7	622.8	387.7	246.6	229.4	185.8	169.8
85°	49.3	52.8	67.7	72.3	97.5	133.1	122.7	111.3	106.7	82.6	75.7
87.5°	20.6	20.6	20.6	18.4	17.2	18.4	25.2	32.1	42.4	33.3	31.0
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)