

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: P628825

Luminaire Tested: GWS-SA1A-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.3 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

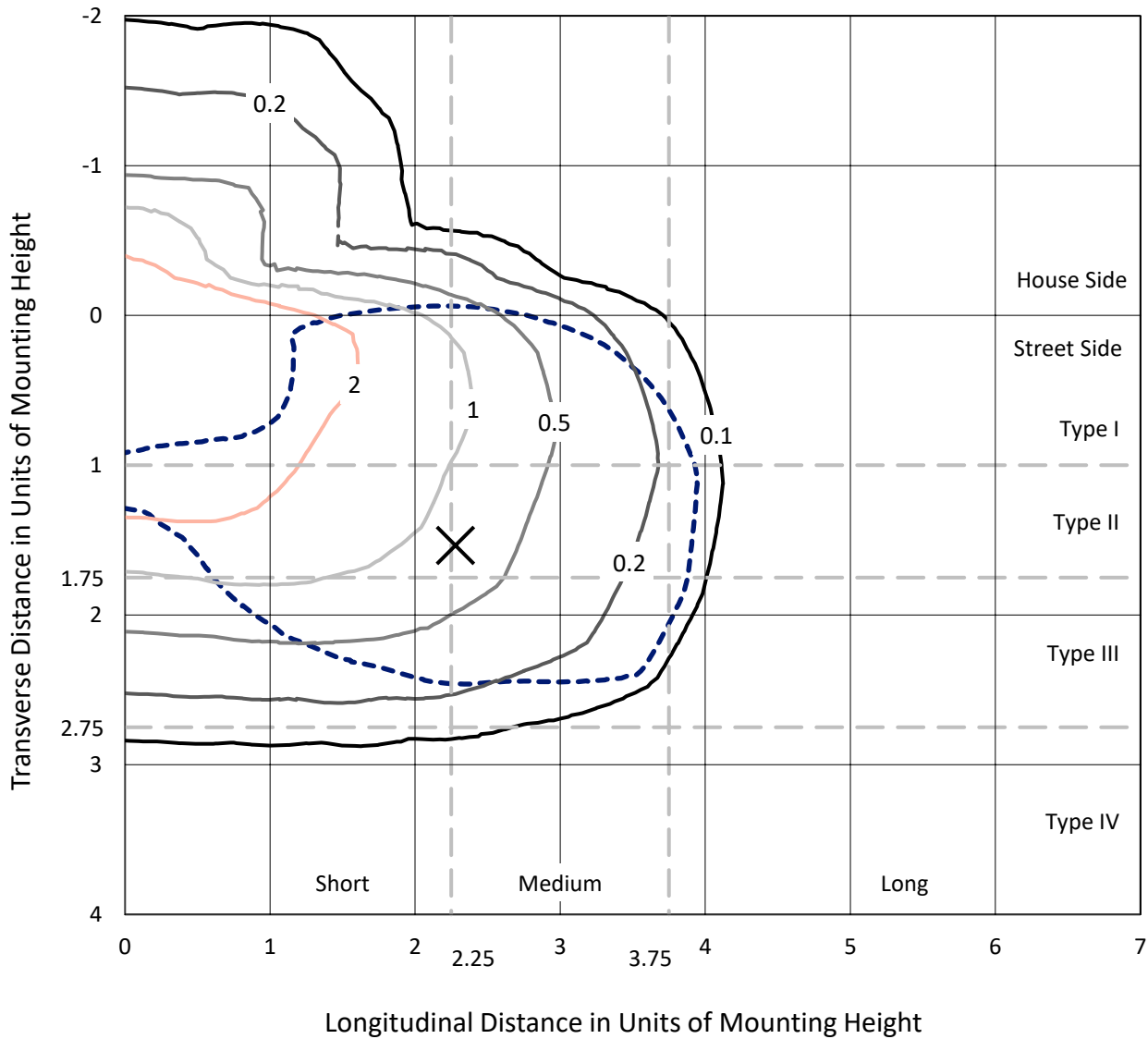
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

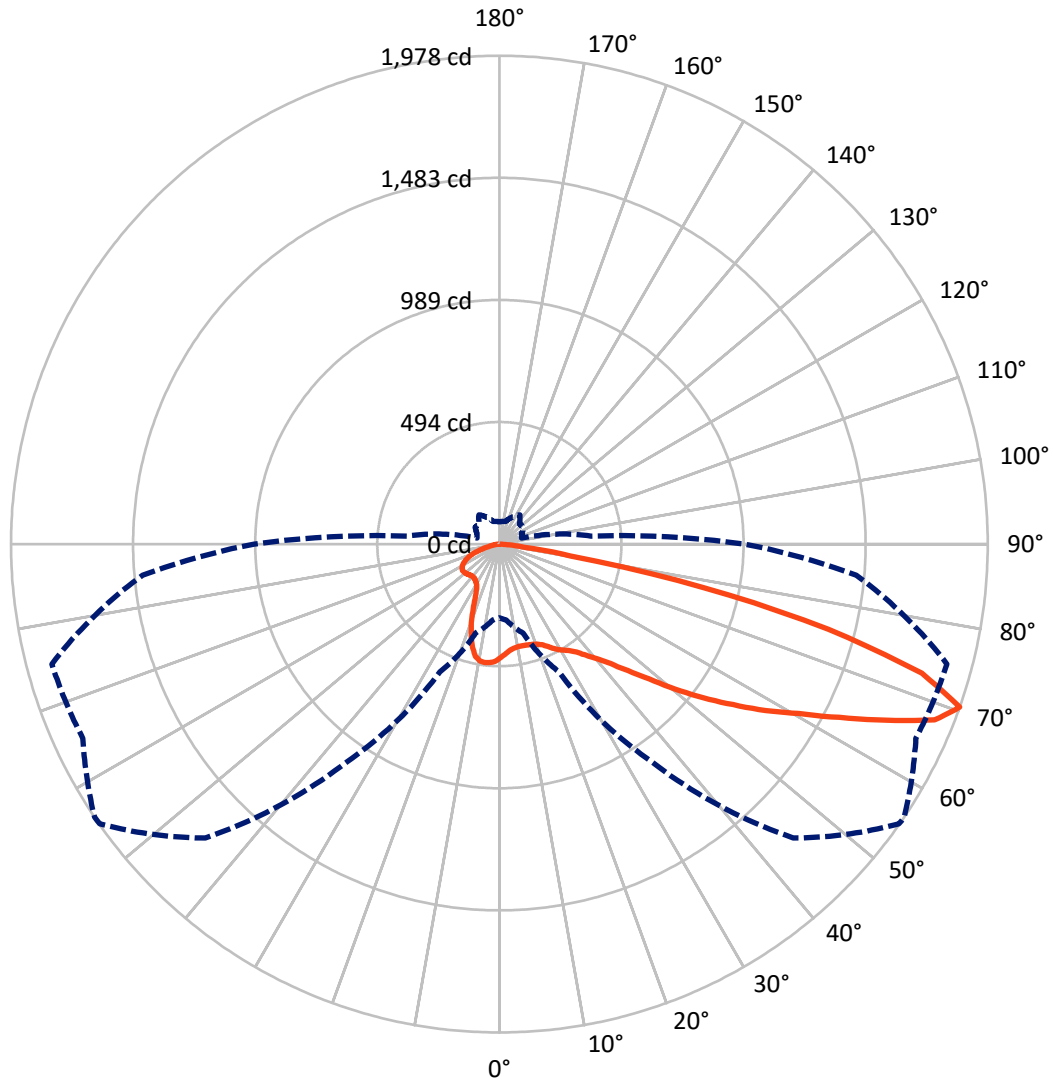
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.2	0.0	548.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	2303.1	0.0	2303.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	2851.3	0.0	2851.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.5
10°-20°	115.4	4.0
20°-30°	190.8	6.7
30°-40°	285.3	10.0
40°-50°	424.5	14.9
50°-60°	603.5	21.2
60°-70°	747.5	26.2
70°-80°	412.7	14.5
80°-90°	29.1	1.0
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°	2851.3	100.0
0°-180°	2851.3	100.0

Coefficient of Utilization



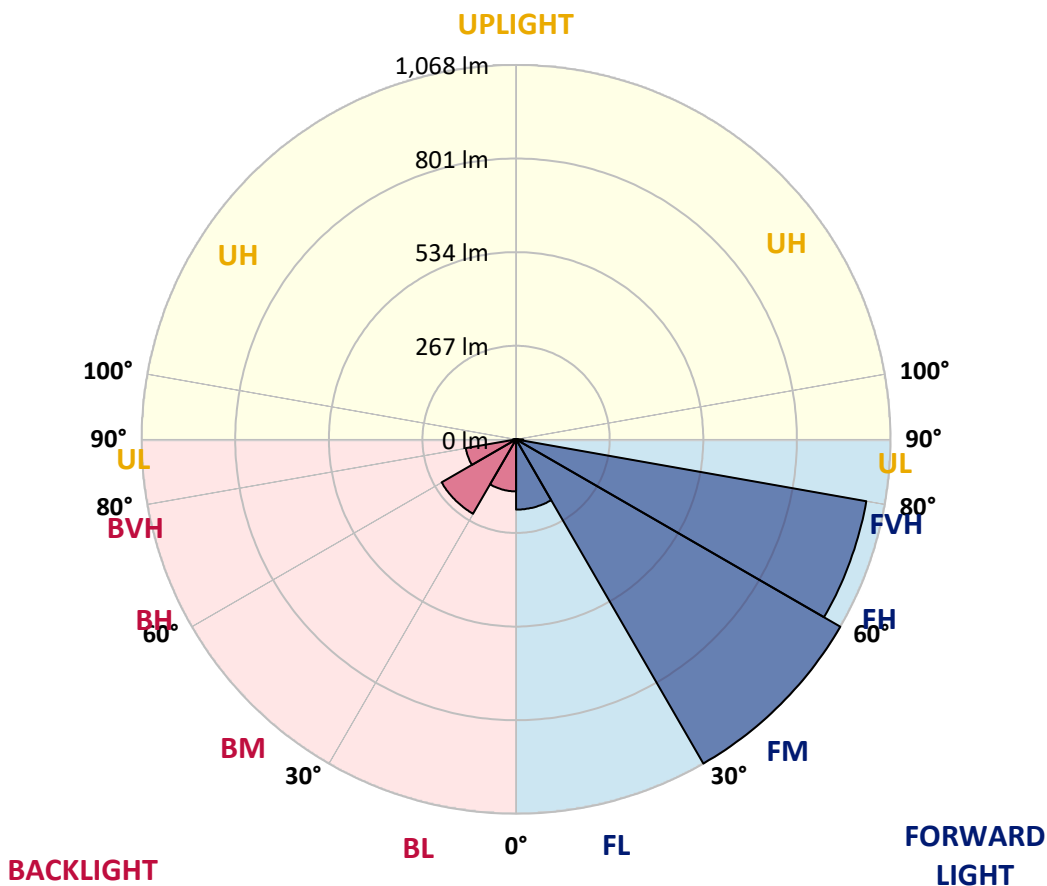
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.4	7.0			
FM (30°-60°)	1068.1	37.5			
FH (60°-80°)	1014.5	35.6			G1/1800
FVH (80°-90°)	20.2	0.7			G1/100
BL (0°-30°)	148.4	5.2	B1/500		
BM (30°-60°)	245.2	8.6	B1/1000		
BH (60°-80°)	145.7	5.1	B1/500		G1/500
BVH (80°-90°)	8.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2
2.5°	430.7	428.3	431.1	432.5	436.1	441.3	446.0	446.2	448.6	454.4	460.0
5°	411.2	410.0	410.8	415.0	418.8	425.5	432.5	433.1	439.9	451.4	462.7
7.5°	396.1	394.5	397.5	402.9	407.8	415.2	424.5	425.3	434.9	452.2	469.5
10°	374.4	373.2	378.8	386.0	396.5	408.8	421.0	422.0	434.7	457.4	481.6
12.5°	364.9	364.9	367.4	374.2	385.6	401.9	420.4	422.0	437.9	465.5	497.0
15°	379.6	380.6	378.6	378.2	382.8	398.3	421.2	423.6	444.0	473.7	512.3
17.5°	409.2	410.2	405.0	396.7	392.1	401.7	424.3	426.9	450.4	482.8	528.8
20°	450.6	451.8	440.3	427.7	411.8	411.6	430.1	432.5	458.6	492.6	546.3
22.5°	499.0	499.9	485.4	465.3	440.9	429.9	440.1	442.5	469.3	506.3	565.2
25°	555.1	557.6	540.1	510.9	477.9	455.0	456.8	459.6	488.4	524.6	587.5
27.5°	615.1	618.1	598.0	565.8	520.4	482.8	478.3	480.8	508.7	535.8	599.4
30°	676.4	678.6	658.5	621.7	566.0	514.1	496.4	497.8	517.5	541.3	611.4
32.5°	744.6	742.7	723.4	681.0	618.7	551.7	513.3	512.9	527.4	552.1	628.7
35°	808.5	811.1	790.6	743.7	676.6	598.2	538.7	537.1	548.3	569.8	653.1
37.5°	885.9	885.1	860.6	809.9	734.7	642.6	574.2	571.4	575.5	597.4	687.0
40°	941.2	946.8	930.9	883.7	802.7	697.3	615.9	609.6	610.6	631.4	732.5
42.5°	986.4	991.7	993.3	963.1	880.5	764.9	667.7	661.5	662.1	691.5	788.4
45°	1021.2	1028.3	1051.0	1042.1	968.1	842.9	737.9	731.5	731.9	764.5	855.9
47.5°	1035.5	1043.1	1089.2	1110.3	1061.2	936.2	825.2	815.7	817.1	853.1	933.2
50°	1030.9	1041.1	1103.5	1162.8	1139.2	1031.1	929.5	922.9	917.5	969.7	1017.0
52.5°	991.1	1002.3	1102.1	1196.2	1203.0	1120.8	1037.3	1033.5	1032.3	1093.6	1110.7
55°	873.8	892.7	1053.6	1205.0	1252.9	1205.2	1154.1	1147.7	1153.9	1226.3	1205.4
57.5°	808.9	823.0	958.7	1195.1	1293.7	1285.6	1270.7	1271.4	1278.4	1370.5	1320.2
60°	771.9	788.4	906.0	1168.2	1332.9	1383.3	1392.8	1392.8	1405.5	1525.9	1436.8
62.5°	722.8	739.5	856.7	1116.3	1369.1	1498.4	1546.2	1545.6	1550.6	1692.6	1550.8
65°	623.3	638.8	757.8	1034.5	1386.8	1625.0	1720.5	1718.7	1708.7	1841.0	1626.2
67.5°	452.6	467.3	580.5	878.9	1323.0	1727.2	1900.1	1900.9	1840.8	1934.5	1630.3
70°	298.4	308.4	373.2	570.8	1075.9	1683.1	1975.3	1977.7	1861.1	1876.2	1450.9
72.5°	186.2	193.2	233.0	340.4	635.8	1332.3	1782.3	1788.9	1674.3	1648.8	1192.1
75°	123.7	128.5	155.0	198.5	294.2	721.0	1354.8	1376.1	1341.9	1292.5	830.6
77.5°	74.4	78.4	98.7	126.1	130.3	281.7	790.8	845.9	850.7	674.8	347.8
80°	34.0	38.6	54.5	72.0	69.4	98.1	278.9	291.7	344.2	214.3	109.8
82.5°	20.1	22.1	36.2	35.8	29.6	47.7	100.3	102.9	87.5	78.4	46.8
85°	8.0	9.5	15.3	13.5	10.9	15.5	37.8	39.6	38.0	34.2	17.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	3.4	3.6	5.2	9.5	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2
2.5°	463.7	462.5	468.5	473.1	475.1	477.1	475.3	474.7	474.7	470.7	468.7
5°	468.7	469.3	477.5	481.4	481.4	479.7	474.9	471.5	470.3	465.1	463.7
7.5°	478.1	480.8	488.4	488.2	482.6	473.7	461.7	452.4	444.0	440.3	438.1
10°	493.6	497.0	502.3	493.8	478.1	454.8	429.3	409.2	397.1	387.5	387.5
12.5°	511.3	514.5	513.5	494.0	461.7	418.0	381.2	358.1	341.2	332.4	332.4
15°	529.0	531.6	520.8	484.8	427.3	369.2	328.9	301.2	286.5	278.3	278.3
17.5°	546.9	546.7	523.8	463.5	382.4	315.1	275.7	254.1	249.1	247.7	247.5
20°	564.2	559.6	520.0	427.9	330.4	260.6	235.7	237.1	244.5	247.7	248.1
22.5°	583.7	572.2	508.7	382.4	271.2	222.8	224.4	236.1	246.9	251.7	252.3
25°	603.6	583.1	489.8	329.1	221.8	208.9	221.4	234.4	246.7	252.9	253.5
27.5°	611.6	583.1	457.6	267.4	195.4	203.1	216.8	229.4	242.3	249.5	250.9
30°	618.3	578.1	412.6	211.7	184.6	197.4	209.3	221.0	233.6	242.5	244.1
32.5°	627.5	573.6	358.1	177.9	179.6	192.0	200.3	210.1	221.6	227.4	226.8
35°	638.4	566.8	292.4	161.9	175.3	187.4	193.2	199.1	193.8	193.6	194.2
37.5°	653.9	560.8	235.0	154.6	172.5	184.2	189.0	176.5	169.3	166.3	165.1
40°	676.2	558.4	185.4	150.4	172.1	184.0	180.6	161.3	151.4	140.9	140.7
42.5°	704.3	556.6	153.2	148.4	173.5	188.6	168.9	151.2	130.9	126.3	125.9
45°	740.5	553.7	137.1	148.0	176.9	192.2	167.7	137.3	123.5	121.4	121.4
47.5°	784.2	549.3	129.9	148.0	180.8	190.6	164.1	134.3	120.0	122.2	123.7
50°	834.2	543.7	126.1	147.6	184.6	190.6	156.4	133.7	119.2	130.7	135.3
52.5°	887.7	537.3	123.5	146.0	187.2	190.8	156.8	135.7	120.0	132.7	136.5
55°	946.8	536.2	119.8	142.6	188.0	185.6	157.8	140.1	121.2	120.2	120.4
57.5°	1021.4	548.3	117.2	137.5	184.8	174.9	159.8	143.4	119.8	120.0	121.4
60°	1099.4	571.0	119.4	132.7	178.1	164.9	161.3	141.8	113.0	109.8	110.2
62.5°	1165.8	588.3	121.2	130.5	168.5	156.0	159.8	138.1	109.2	108.4	110.2
65°	1193.5	574.0	116.8	125.9	154.4	145.2	156.8	133.5	106.0	102.9	103.1
67.5°	1162.8	507.1	108.2	115.6	138.5	131.3	152.0	127.5	101.5	97.9	97.1
70°	993.3	372.6	93.3	99.3	119.2	115.0	144.6	119.6	94.5	91.9	90.1
72.5°	800.5	263.8	77.4	79.0	93.5	96.9	131.7	109.8	86.5	79.0	76.4
75°	557.2	165.7	64.5	62.9	67.6	74.0	102.7	91.1	74.6	66.8	64.3
77.5°	239.7	85.1	50.5	49.7	45.0	51.3	78.8	76.0	62.5	53.5	52.1
80°	80.2	49.3	36.4	35.0	30.0	36.0	55.5	60.7	49.1	39.6	37.2
82.5°	40.2	28.6	23.1	20.9	20.1	22.7	32.8	37.8	34.0	27.3	23.1
85°	19.7	16.3	12.7	12.5	10.5	9.9	13.7	16.1	15.3	11.3	10.7
87.5°	7.2	6.4	4.0	3.2	2.0	1.4	0.8	0.8	0.6	0.6	0.6
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)