

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: P628813

Luminaire Tested: GWS-SA1A-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.8 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

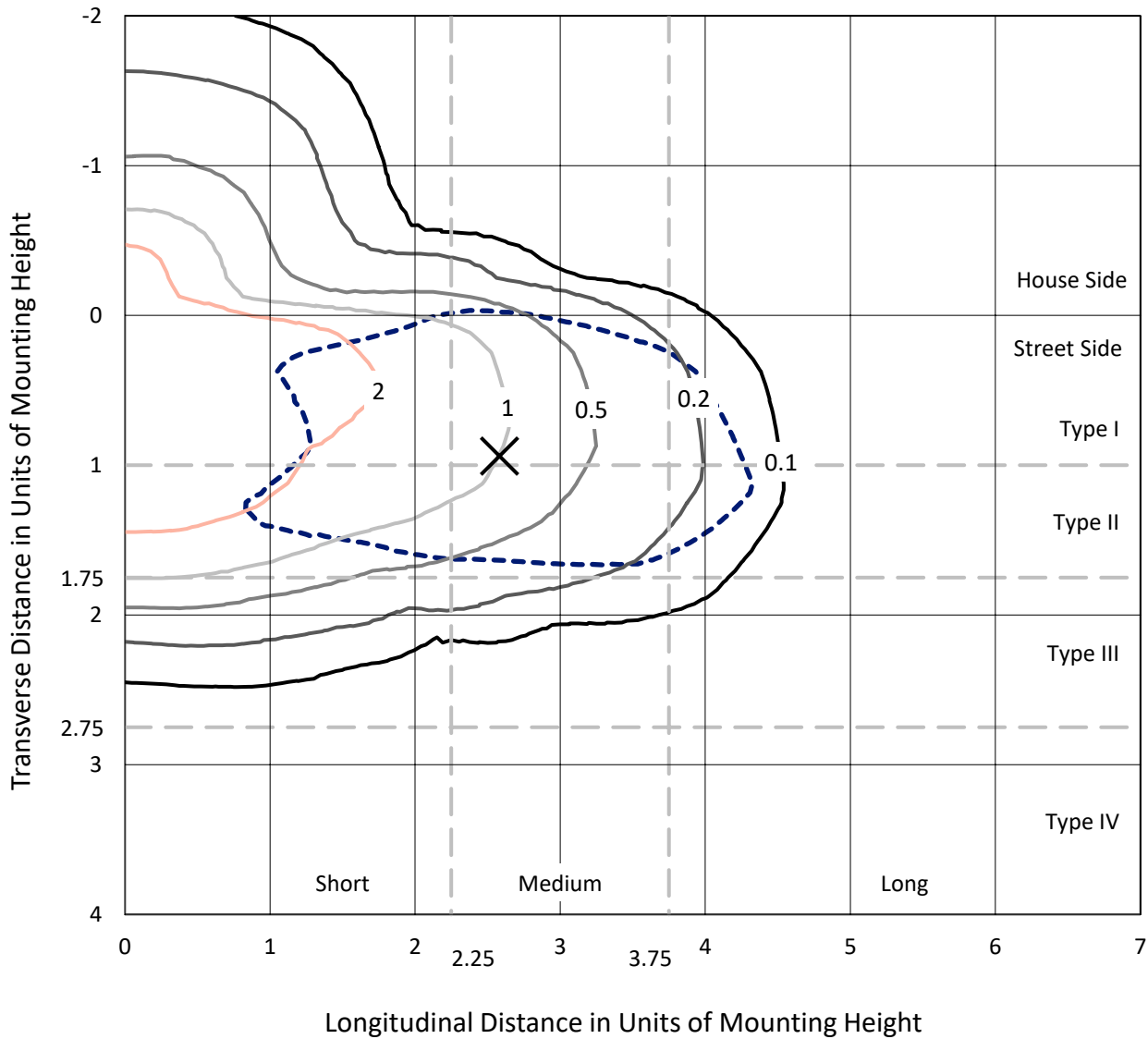
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

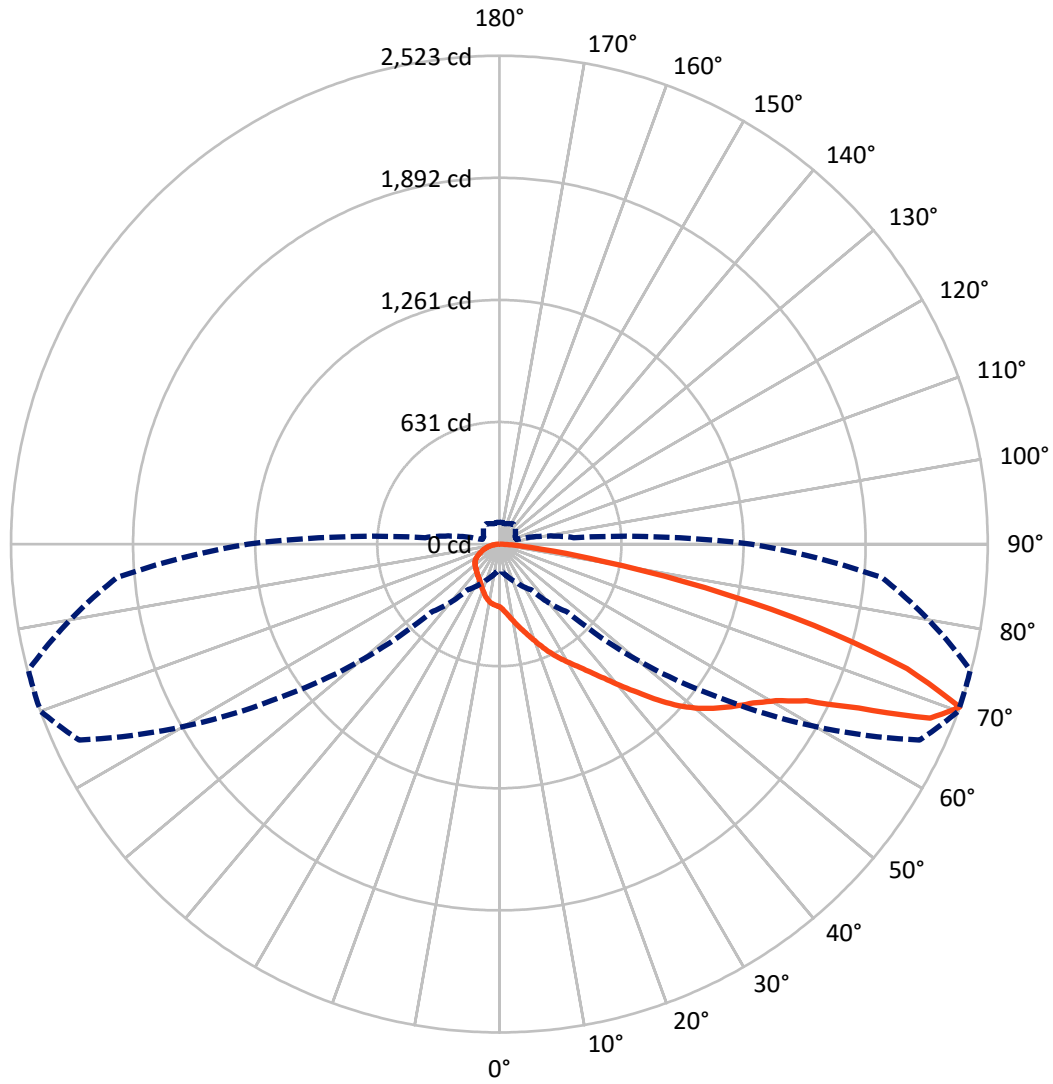
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.7	0.0	498.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	2284.1	0.0	2284.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	2782.8	0.0	2782.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.2
10°-20°	107.3	3.9
20°-30°	190.1	6.8
30°-40°	286.1	10.3
40°-50°	432.8	15.6
50°-60°	620.0	22.3
60°-70°	685.4	24.6
70°-80°	386.8	13.9
80°-90°	41.4	1.5
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°	2782.8	100.0
0°-180°	2782.8	100.0

Coefficient of Utilization



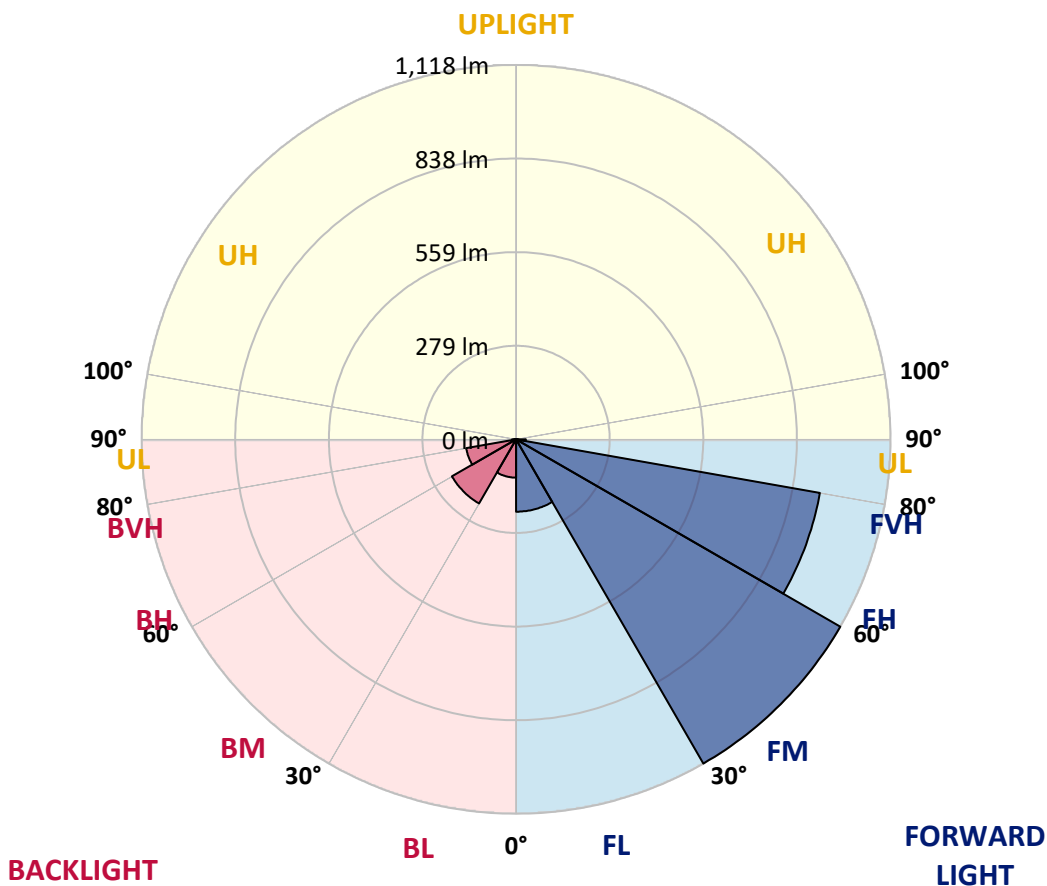
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.0	7.8			
FM (30°-60°)	1117.8	40.2			
FH (60°-80°)	921.0	33.1			G1/1800
FVH (80°-90°)	29.2	1.1			G1/100
BL (0°-30°)	114.3	4.1	B1/500		
BM (30°-60°)	221.1	7.9	B1/1000		
BH (60°-80°)	151.1	5.4	B1/500		G1/500
BVH (80°-90°)	12.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5
2.5°	359.5	358.9	359.3	358.9	356.7	351.3	346.9	341.2	337.4	335.2	330.0
5°	401.7	401.1	399.7	397.7	393.7	386.3	375.2	362.9	355.5	349.9	338.8
7.5°	432.1	432.1	431.9	429.5	426.7	418.8	405.8	389.7	378.8	369.2	351.1
10°	447.6	448.6	450.0	453.4	452.8	448.6	436.3	419.0	405.4	394.1	367.2
12.5°	456.0	456.6	459.1	466.1	473.3	474.3	467.1	449.0	434.1	419.0	385.1
15°	466.9	467.1	470.3	478.8	489.4	500.1	498.3	480.2	464.9	448.2	405.0
17.5°	475.3	476.7	482.6	492.4	505.7	520.4	529.2	518.0	499.1	480.0	426.7
20°	478.4	479.4	487.0	502.1	520.2	540.9	560.6	557.6	538.5	516.0	451.2
22.5°	489.2	489.2	494.8	507.5	528.8	559.0	591.0	598.8	581.9	555.6	477.5
25°	513.1	512.3	514.9	520.2	536.3	573.5	620.9	644.4	625.5	596.0	503.9
27.5°	545.9	545.5	545.3	546.1	551.5	586.1	646.2	687.1	668.2	634.8	527.4
30°	581.5	580.3	582.9	580.5	579.3	601.2	667.8	725.3	710.6	673.2	546.9
32.5°	630.0	627.8	627.1	619.3	614.5	624.7	685.1	768.7	757.0	714.6	568.8
35°	693.9	691.9	681.6	669.2	654.9	659.7	706.6	811.1	811.9	766.5	597.6
37.5°	758.4	758.9	750.8	721.5	706.8	704.0	739.3	862.8	880.1	828.4	634.8
40°	812.1	814.5	814.5	783.6	761.7	759.1	785.4	924.1	958.5	904.4	681.8
42.5°	853.0	855.2	862.2	839.9	816.8	825.8	841.3	985.7	1047.4	998.3	741.4
45°	897.8	899.6	903.4	890.6	877.1	901.2	904.6	1059.3	1149.1	1103.7	810.5
47.5°	957.3	955.7	956.1	946.7	936.2	975.2	974.4	1121.2	1247.5	1219.1	885.5
50°	1031.3	1034.3	1031.5	1012.8	1000.5	1036.1	1040.8	1189.7	1333.9	1333.3	961.1
52.5°	1102.5	1103.7	1118.6	1119.4	1094.2	1086.8	1098.9	1258.9	1406.9	1437.9	1033.7
55°	1106.1	1110.7	1155.4	1187.5	1228.2	1168.4	1157.6	1324.9	1477.5	1540.2	1109.1
57.5°	1029.1	1036.5	1112.3	1181.7	1294.7	1308.6	1258.1	1410.1	1548.1	1641.0	1196.4
60°	864.6	880.1	983.0	1089.2	1264.8	1409.3	1463.8	1525.9	1640.8	1743.9	1302.4
62.5°	552.1	558.2	702.5	880.3	1129.8	1399.5	1687.8	1730.0	1781.9	1878.0	1465.6
65°	276.5	295.8	380.4	525.4	814.7	1233.2	1801.0	2103.8	2040.3	2107.6	1730.2
67.5°	187.6	193.8	236.7	315.7	477.7	873.7	1730.8	2418.7	2400.0	2411.1	2012.3
70°	138.3	142.4	176.1	223.6	288.9	496.0	1378.0	2395.0	2522.7	2518.6	1982.8
72.5°	100.9	102.9	128.5	170.7	214.1	256.6	841.5	1934.7	2202.2	2318.2	1734.1
75°	73.4	75.8	89.3	127.7	166.5	160.1	415.4	1397.5	1679.4	1902.6	1412.7
77.5°	54.7	57.7	63.9	80.0	116.6	114.6	179.6	907.4	1086.2	1242.6	858.2
80°	39.4	40.0	43.6	51.3	74.0	67.2	85.5	473.1	542.5	594.4	336.4
82.5°	23.9	24.5	29.2	31.6	45.8	42.2	44.4	153.2	219.6	233.0	125.7
85°	7.0	7.4	13.3	14.5	19.1	18.1	17.9	62.3	74.4	95.1	49.5
87.5°	0.0	0.0	0.0	0.0	0.2	1.2	2.2	11.1	16.7	23.1	12.1
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°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5
2.5°	328.0	323.3	320.9	316.7	313.7	310.7	307.6	304.8	303.6	301.8	302.2
5°	333.8	326.5	319.3	311.1	304.0	298.2	293.0	288.3	286.3	284.5	285.3
7.5°	342.6	331.8	317.9	302.8	291.8	283.7	278.3	275.1	274.1	272.7	272.7
10°	353.9	337.6	313.3	291.8	278.5	272.1	269.6	269.4	270.4	270.6	270.2
12.5°	366.4	343.2	306.4	278.7	267.4	265.4	267.2	270.6	274.1	275.9	275.5
15°	379.2	346.9	294.8	266.2	259.4	262.0	267.8	274.7	281.3	284.7	284.5
17.5°	391.3	347.7	279.7	254.2	252.3	259.0	269.0	279.7	288.7	293.6	293.8
20°	404.8	346.2	264.2	243.3	245.3	256.2	269.4	282.3	293.0	297.8	299.0
22.5°	417.0	341.4	249.1	233.0	239.3	252.7	266.2	278.3	287.7	292.4	294.0
25°	428.1	332.2	232.6	224.4	234.7	247.9	258.2	266.6	273.3	276.1	278.3
27.5°	434.1	318.3	220.2	217.6	230.2	241.1	246.7	249.3	251.5	250.7	252.3
30°	435.3	301.0	209.3	212.1	223.6	231.6	232.8	230.2	226.4	220.2	221.6
32.5°	434.1	281.1	200.3	206.3	216.2	221.0	219.4	212.5	203.3	193.6	194.2
35°	434.5	261.0	192.8	199.9	207.5	210.1	206.1	196.6	186.8	177.9	177.5
37.5°	438.9	244.1	186.6	193.6	199.1	199.5	195.0	185.2	180.2	173.5	172.7
40°	451.2	231.6	181.0	187.4	190.8	190.6	185.6	178.6	182.0	179.8	179.2
42.5°	471.3	224.0	176.3	180.8	183.2	183.6	179.6	175.1	182.6	179.8	178.8
45°	503.7	223.6	173.1	174.1	177.9	180.8	177.9	172.9	175.7	162.1	159.5
47.5°	542.1	230.4	170.7	168.3	174.9	180.0	175.5	167.5	161.7	149.2	147.4
50°	588.3	244.3	168.5	162.1	170.5	176.9	172.5	161.5	152.6	146.0	145.0
52.5°	643.2	262.6	165.7	155.0	163.9	175.3	172.5	160.9	149.2	143.2	142.2
55°	700.7	283.7	162.5	146.6	156.4	175.7	173.9	156.6	146.6	143.4	142.6
57.5°	772.1	309.0	156.6	136.7	149.8	172.1	168.3	154.2	144.8	142.2	141.4
60°	864.8	346.7	145.6	126.7	142.2	165.7	163.3	150.2	139.9	137.7	137.1
62.5°	1011.6	410.4	132.1	117.0	133.1	152.2	155.8	142.6	133.9	133.7	133.5
65°	1250.9	487.0	116.2	108.4	123.7	141.2	146.0	134.7	127.7	129.9	129.7
67.5°	1418.6	493.6	103.2	99.3	112.6	129.1	136.1	126.7	119.0	123.3	123.1
70°	1299.3	385.1	91.9	89.9	100.7	116.0	125.5	116.6	109.0	113.0	112.2
72.5°	1095.8	295.2	81.2	80.0	88.7	102.3	111.8	106.6	98.5	98.5	96.7
75°	880.7	243.5	70.0	69.4	75.2	88.5	99.1	90.3	82.8	82.4	81.2
77.5°	505.1	159.7	58.7	58.3	60.1	74.0	77.0	75.2	69.6	67.0	66.2
80°	201.3	83.0	46.2	43.6	45.4	54.3	60.7	57.7	52.9	49.7	47.9
82.5°	78.0	41.6	32.6	28.6	31.2	39.2	44.0	43.0	39.8	32.6	30.6
85°	31.8	20.3	19.5	16.5	18.1	21.1	25.3	21.9	18.1	12.9	12.3
87.5°	8.4	7.4	7.2	4.4	3.4	1.0	0.2	0.0	0.0	0.0	0.0
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)