

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: P628882

Luminaire Tested: GWS-SA1A-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2746.8 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

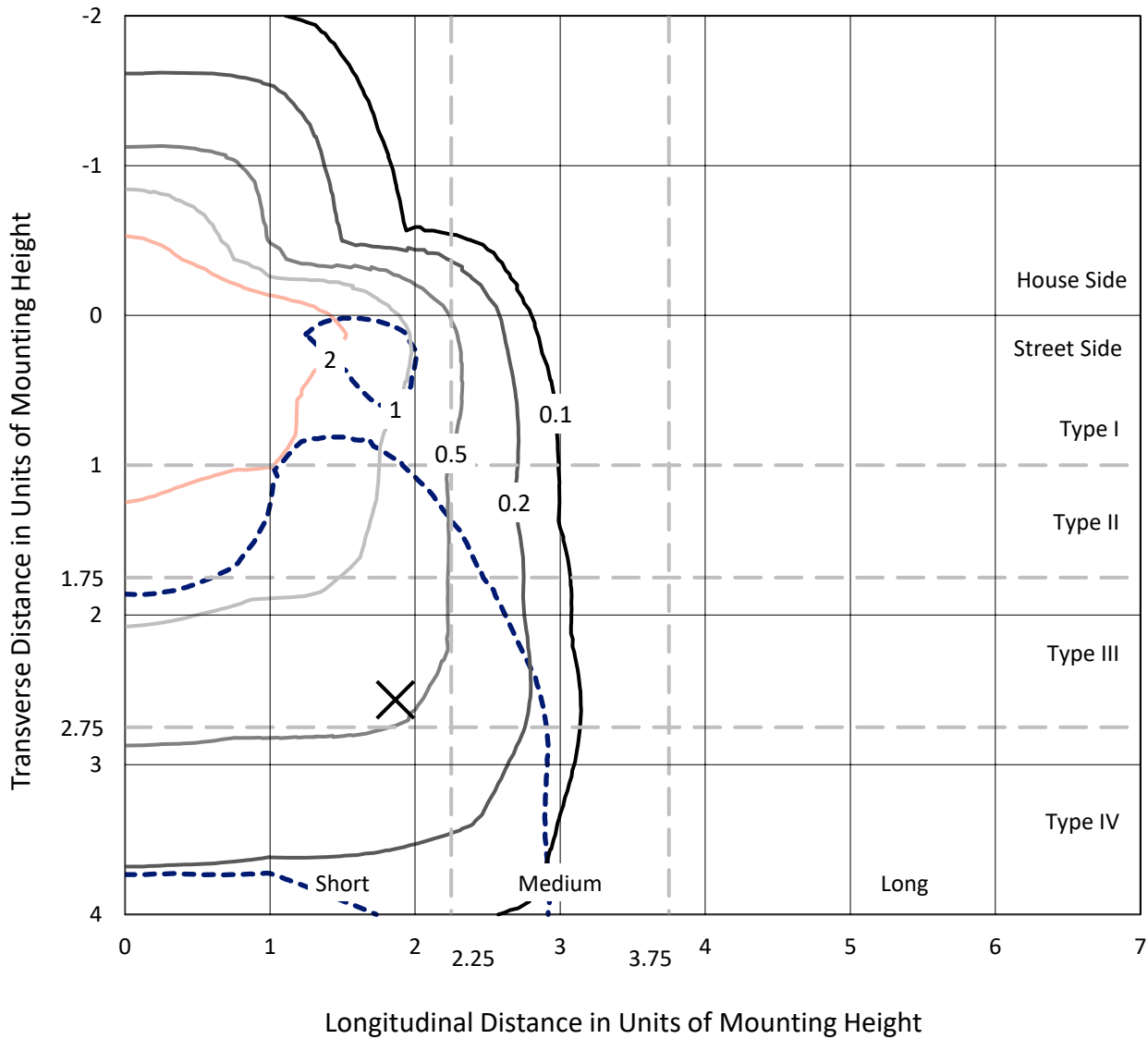
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

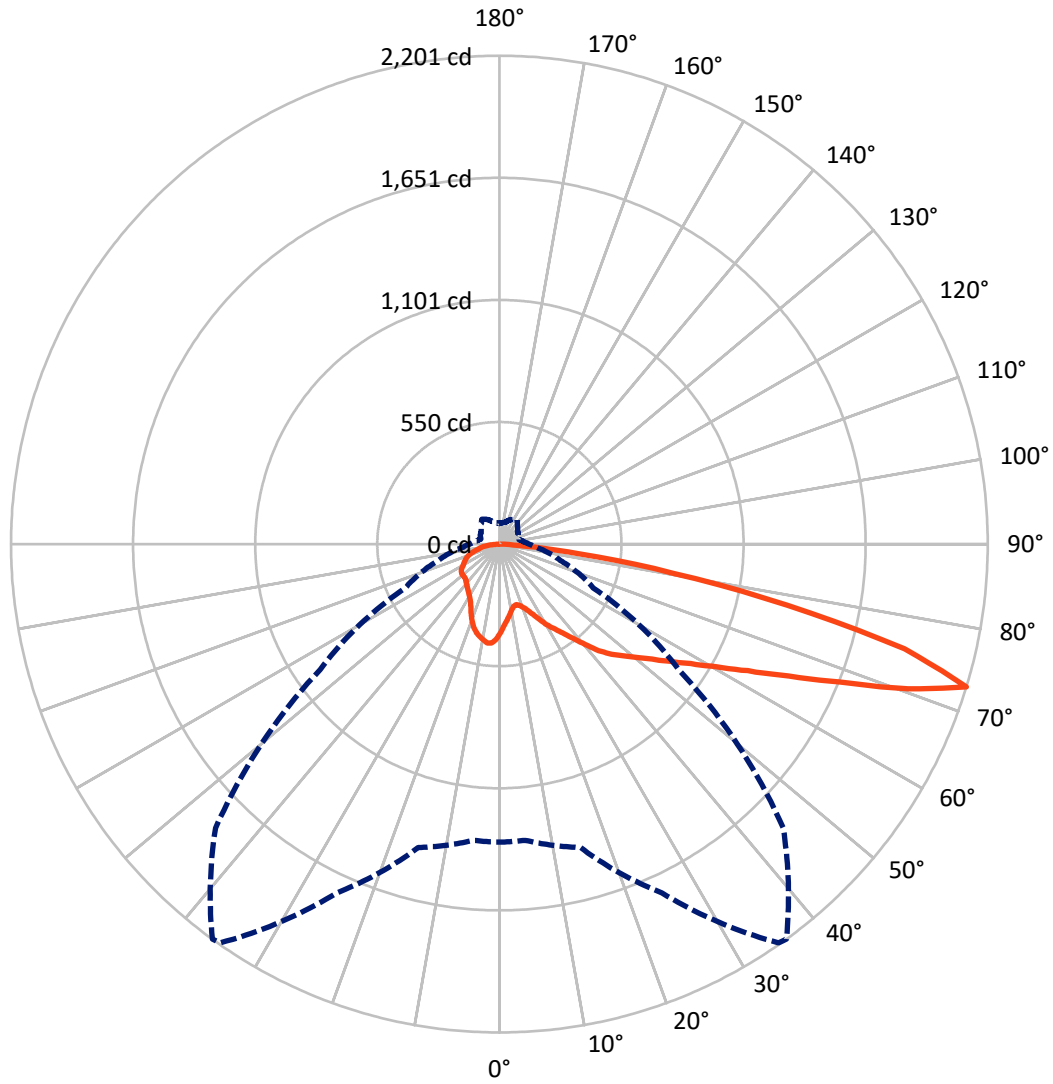
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.2	0.0	633.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	2113.5	0.0	2113.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	2746.8	0.0	2746.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	1.4
10°-20°	106.0	3.9
20°-30°	175.6	6.4
30°-40°	262.9	9.6
40°-50°	383.6	14.0
50°-60°	546.0	19.9
60°-70°	689.8	25.1
70°-80°	491.6	17.9
80°-90°	53.7	2.0
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°	2746.8	100.0
0°-180°	2746.8	100.0

Coefficient of Utilization



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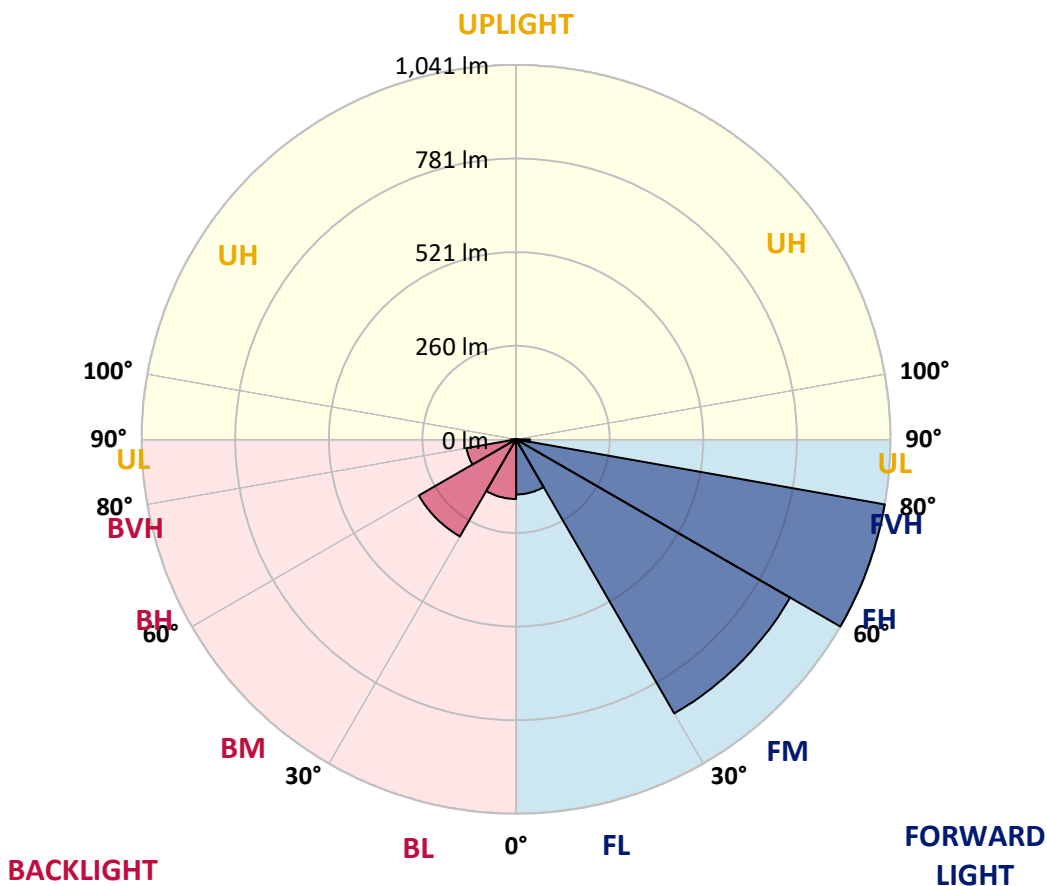
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.3	5.6			
FM (30°-60°)	880.3	32.0			
FH (60°-80°)	1041.4	37.9			G1/1800
FVH (80°-90°)	38.5	1.4			G1/100
BL (0°-30°)	165.8	6.0	B1/500		
BM (30°-60°)	312.3	11.4	B1/1000		
BH (60°-80°)	140.0	5.1	B1/500		G1/500
BVH (80°-90°)	15.1	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0
2.5°	366.7	366.1	364.9	368.6	372.2	371.8	376.9	381.8	387.1	392.6	400.0
5°	337.4	337.0	336.0	341.5	347.0	346.8	355.1	363.1	373.9	385.7	400.4
7.5°	308.0	307.0	308.4	315.4	323.1	323.9	335.3	348.4	364.1	381.8	402.6
10°	282.1	281.9	282.5	290.3	301.9	302.7	317.4	335.5	356.3	380.0	407.7
12.5°	275.4	275.0	273.4	277.2	286.0	287.2	303.3	325.6	351.0	381.0	414.6
15°	286.4	285.4	279.7	277.9	282.1	283.2	296.8	319.6	348.0	382.8	423.4
17.5°	305.4	304.8	294.0	286.4	289.3	290.1	300.3	318.6	347.2	386.5	434.2
20°	333.1	330.5	313.5	302.1	302.1	303.3	309.5	323.1	348.2	391.0	446.4
22.5°	369.8	364.5	340.6	325.2	321.1	322.7	325.4	334.3	352.5	398.5	461.7
25°	411.0	406.1	377.7	355.9	350.2	350.8	348.6	350.2	361.8	408.9	480.7
27.5°	454.8	451.5	421.4	393.6	384.7	384.7	376.7	372.9	374.9	420.8	501.9
30°	493.9	489.5	464.0	433.6	421.8	421.8	406.7	398.3	393.4	435.2	530.2
32.5°	514.5	511.9	495.0	471.7	457.3	455.0	442.0	432.2	420.8	456.6	568.6
35°	541.4	540.8	530.6	512.5	494.1	490.9	481.9	474.2	454.4	483.3	619.5
37.5°	575.3	574.3	572.6	561.8	539.8	539.2	531.3	521.9	496.2	521.9	681.3
40°	613.2	611.4	609.3	609.1	595.9	593.6	593.0	582.4	546.5	568.4	745.7
42.5°	665.4	659.1	639.9	648.5	658.3	656.2	664.0	648.1	609.3	623.6	806.7
45°	729.6	714.1	676.2	678.6	703.3	707.4	734.3	730.4	678.4	687.4	870.9
47.5°	768.1	754.7	719.4	717.4	748.2	753.3	811.8	819.1	752.8	764.3	950.2
50°	799.7	790.4	761.4	764.3	796.9	802.0	888.6	904.3	823.0	842.9	1042.3
52.5°	837.9	824.4	802.0	815.4	855.4	861.5	974.0	991.0	886.2	929.4	1137.7
55°	859.3	853.8	854.2	874.8	924.9	933.3	1063.5	1060.7	944.1	1003.4	1209.5
57.5°	908.6	906.6	925.3	933.1	1006.0	1016.8	1153.0	1128.6	996.7	1060.7	1243.9
60°	995.6	990.5	1006.9	1018.7	1106.3	1121.6	1252.9	1195.0	1032.3	1103.3	1232.3
62.5°	1118.0	1111.6	1112.2	1131.0	1240.7	1256.8	1364.0	1250.5	1043.3	1109.8	1158.7
65°	1270.0	1260.9	1250.5	1275.9	1419.1	1432.5	1484.9	1290.8	1017.0	1047.0	1005.0
67.5°	1430.5	1422.9	1410.7	1464.1	1650.0	1658.2	1620.5	1287.4	933.7	879.0	704.9
70°	1439.8	1441.7	1499.6	1692.8	1951.5	1953.6	1748.7	1217.6	756.1	569.8	351.2
72.5°	1343.2	1340.2	1415.6	1734.6	2194.1	2201.0	1809.2	986.5	467.2	284.2	164.7
75°	1091.0	1096.3	1175.6	1517.7	1880.6	1886.7	1474.9	581.6	222.0	139.0	105.4
77.5°	469.7	499.2	655.6	1069.2	1346.9	1327.9	760.2	235.7	118.4	99.1	80.7
80°	135.6	147.2	233.6	508.4	807.1	792.8	300.9	88.3	82.6	74.4	57.9
82.5°	43.8	48.5	85.6	202.4	361.6	361.2	114.2	52.2	54.0	50.6	37.3
85°	12.2	14.1	26.3	61.4	111.9	109.7	33.0	24.7	28.7	29.2	18.6
87.5°	0.0	0.0	0.2	0.4	0.4	0.4	0.8	3.7	8.4	10.6	7.5
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°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0
2.5°	404.5	403.8	412.2	418.7	424.8	428.9	430.1	431.0	432.6	433.4	432.6
5°	407.3	410.4	424.2	434.4	442.6	447.5	447.7	447.3	448.5	447.5	446.9
7.5°	413.4	419.3	436.9	447.7	453.0	453.2	448.3	442.6	439.7	437.3	436.5
10°	421.6	430.3	449.5	456.6	455.0	447.5	436.7	427.7	422.6	418.9	418.1
12.5°	432.8	442.6	460.7	460.5	450.3	436.9	424.2	413.4	406.1	401.8	400.4
15°	443.4	455.8	468.9	459.3	443.2	426.9	410.6	396.1	386.3	379.6	378.4
17.5°	456.4	469.7	474.8	455.4	434.2	413.2	391.4	372.4	359.2	351.2	350.6
20°	471.5	483.3	477.6	448.7	422.6	395.1	365.5	344.3	330.0	322.3	322.9
22.5°	489.1	497.6	478.5	439.5	406.5	369.4	336.4	316.0	306.4	302.3	302.5
25°	507.8	513.3	477.0	427.1	381.8	338.0	306.4	297.0	296.2	295.2	295.6
27.5°	530.0	528.8	472.7	409.5	348.6	301.5	285.4	287.8	291.1	290.7	291.1
30°	559.8	548.2	467.2	385.3	309.0	270.9	273.0	279.9	284.2	284.6	285.8
32.5°	593.8	569.6	458.5	352.3	271.3	253.8	261.3	269.7	274.8	275.8	277.4
35°	634.4	594.0	443.0	311.1	244.2	243.6	250.5	256.2	261.8	262.2	262.2
37.5°	681.1	618.5	418.3	265.6	227.5	234.8	241.4	242.6	244.0	242.8	243.4
40°	723.9	642.2	383.3	224.2	213.8	227.1	232.6	228.5	224.0	221.0	221.6
42.5°	759.8	658.3	336.8	195.3	200.0	220.2	224.4	216.1	207.3	201.6	202.4
45°	800.1	673.1	282.1	175.7	188.2	215.3	218.1	207.3	196.1	187.5	186.3
47.5°	855.8	703.5	233.6	162.1	179.8	212.6	217.3	202.6	188.0	175.1	173.7
50°	924.5	746.5	193.1	153.1	175.9	211.2	217.1	197.5	180.0	164.9	163.9
52.5°	999.5	788.5	163.1	146.2	172.1	206.9	216.1	191.8	171.6	155.3	154.1
55°	1049.5	805.0	142.9	139.6	165.7	200.2	212.0	186.3	159.0	144.1	142.3
57.5°	1064.1	783.8	128.8	133.7	157.6	190.8	204.3	174.7	151.3	139.4	138.0
60°	1038.9	730.4	120.1	128.8	148.6	178.8	190.8	168.0	145.1	134.5	133.5
62.5°	967.5	648.1	113.3	123.7	139.4	166.1	182.2	159.8	138.4	130.1	128.6
65°	824.0	531.5	107.8	118.4	130.7	154.1	172.9	151.7	131.1	124.8	123.1
67.5°	576.3	373.3	101.9	112.1	121.9	142.5	163.1	144.1	123.5	118.8	117.2
70°	281.7	197.9	94.8	104.8	112.5	130.7	153.3	135.0	113.5	110.9	108.7
72.5°	134.1	110.7	86.4	94.8	99.7	115.0	137.0	121.7	101.7	96.0	92.1
75°	89.9	78.7	75.4	83.0	84.2	96.4	117.4	105.0	89.7	83.2	79.9
77.5°	68.1	60.1	63.4	70.1	67.7	79.3	96.6	93.6	80.9	75.0	73.4
80°	47.9	43.8	50.4	54.4	52.6	67.5	87.0	80.1	66.7	60.1	58.9
82.5°	30.2	29.4	37.1	37.7	38.3	53.4	71.6	63.0	51.8	42.6	39.5
85°	15.1	16.7	22.2	22.2	22.0	27.5	40.8	35.5	27.9	22.2	21.6
87.5°	5.1	7.1	9.6	7.7	5.9	4.7	5.3	6.5	6.9	6.7	6.7
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)