

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: P628879

Luminaire Tested: GWS-SA1A-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2226.2 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

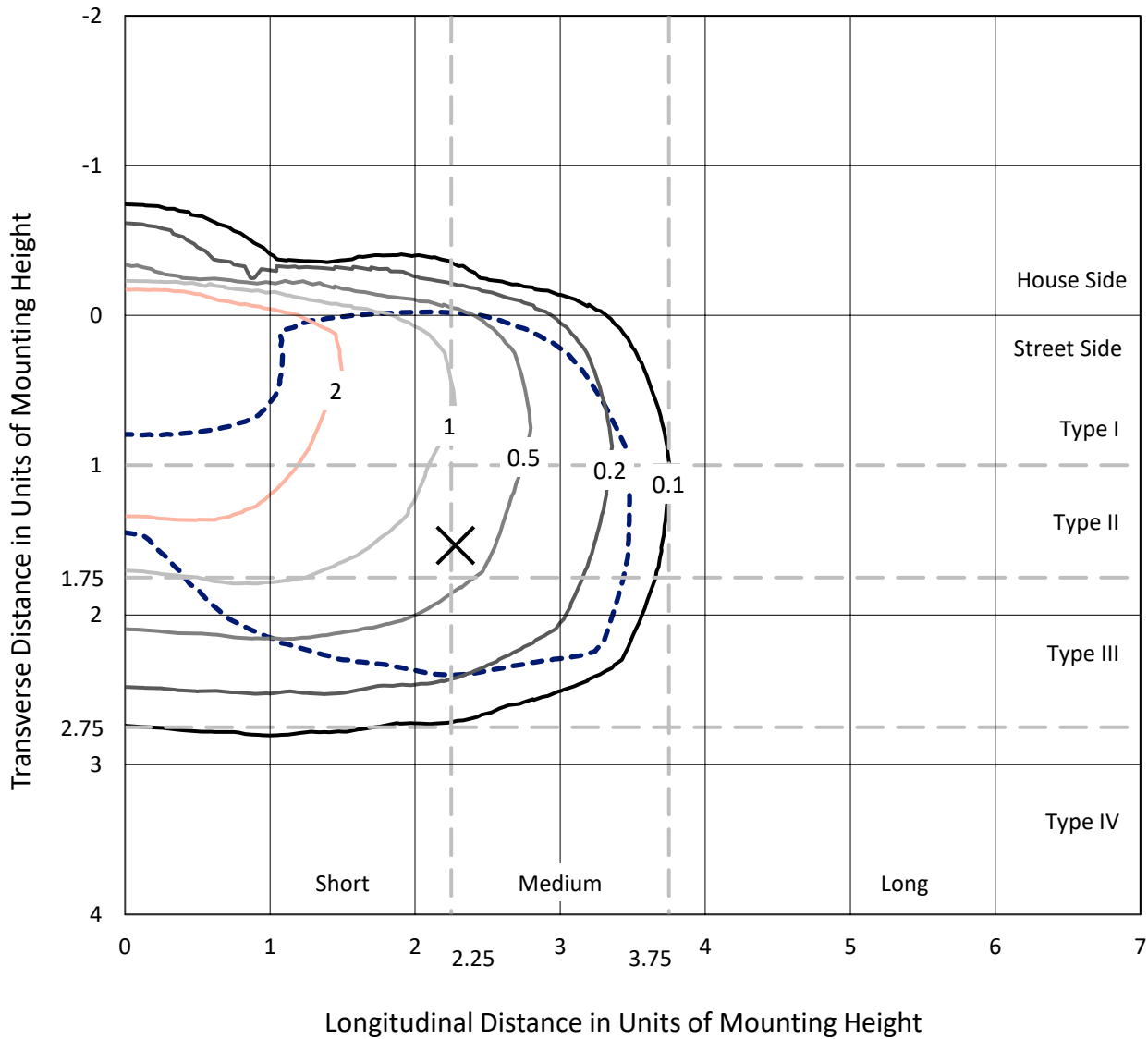
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

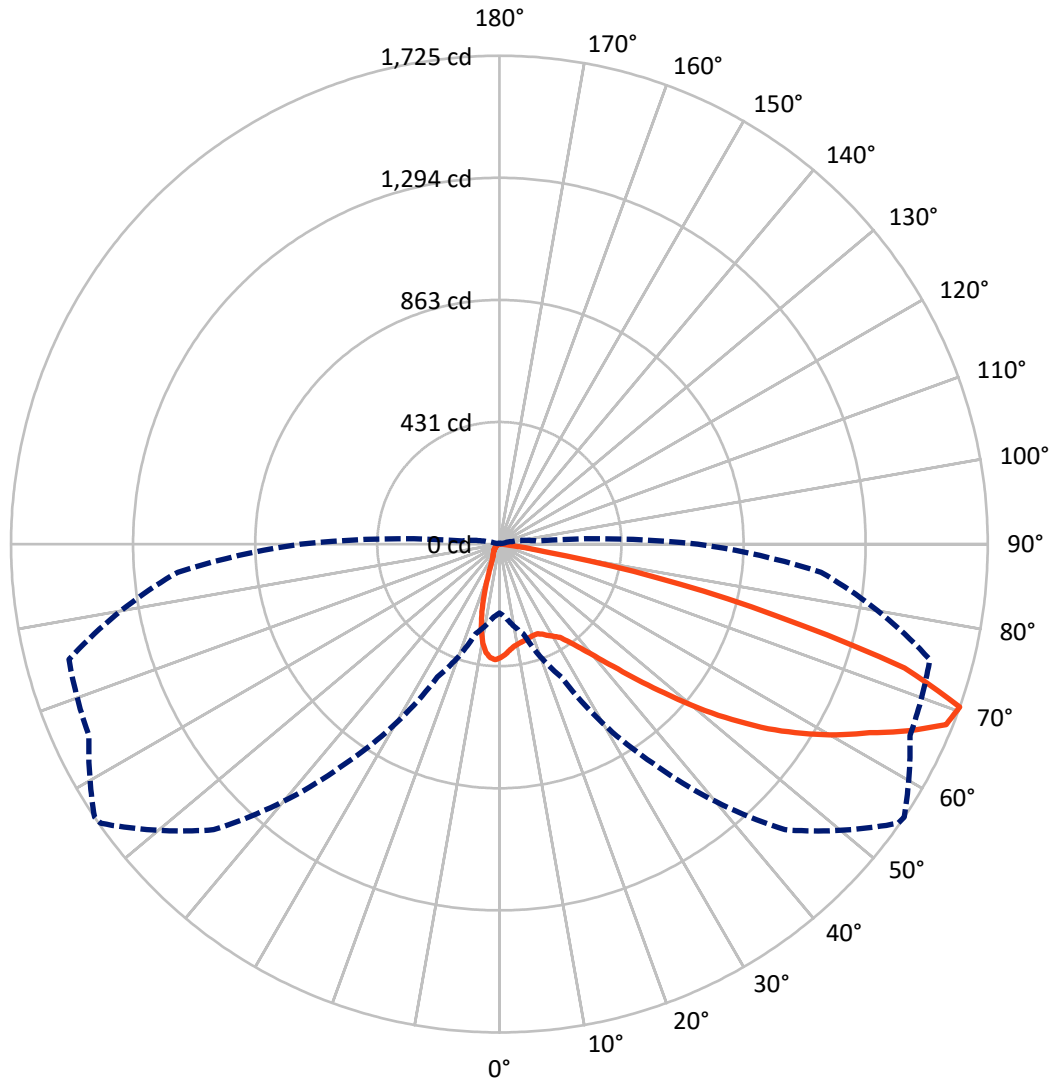
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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	199.9	0.0	199.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	2026.2	0.0	2026.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	2226.2	0.0	2226.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.5
10°-20°	77.5	3.5
20°-30°	122.8	5.5
30°-40°	211.7	9.5
40°-50°	357.6	16.1
50°-60°	525.4	23.6
60°-70°	622.8	28.0
70°-80°	265.6	11.9
80°-90°	8.3	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°	2226.2	100.0
0°-180°	2226.2	100.0

Coefficient of Utilization



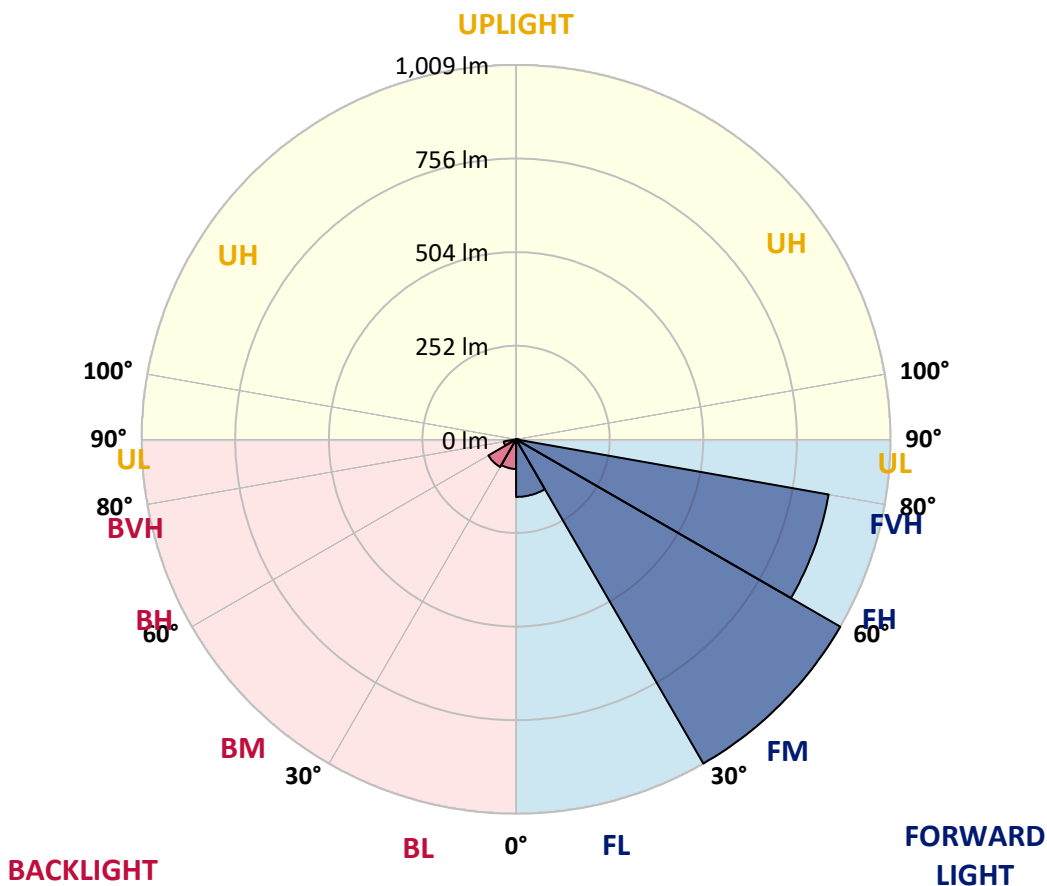
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.1	7.0			
FM (30°-60°)	1008.5	45.3			
FH (60°-80°)	855.1	38.4			G1/1800
FVH (80°-90°)	7.5	0.3			G0/10
BL (0°-30°)	79.6	3.6	B0/110		
BM (30°-60°)	86.1	3.9	B0/220		
BH (60°-80°)	33.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4
2.5°	373.7	373.1	373.5	376.5	382.2	384.9	389.4	390.2	393.9	398.6	400.4
5°	349.4	347.4	348.4	352.7	359.2	366.5	374.9	377.1	386.3	396.7	404.5
7.5°	327.2	325.0	327.4	334.1	343.3	351.3	363.7	365.1	379.8	398.1	412.2
10°	292.3	293.0	297.8	309.7	323.7	340.2	357.0	359.0	377.1	402.8	424.6
12.5°	265.6	264.2	269.5	283.0	302.7	326.8	351.9	354.5	377.4	410.0	440.5
15°	253.2	252.8	255.0	264.8	284.0	312.3	347.2	350.6	380.0	416.5	455.6
17.5°	253.6	253.0	252.8	258.5	272.8	301.5	342.1	346.6	382.2	423.6	471.5
20°	271.3	268.5	263.4	260.7	269.3	294.6	338.6	343.7	385.5	431.2	488.5
22.5°	308.4	309.5	295.8	281.5	277.5	295.4	338.2	344.1	392.6	443.0	509.2
25°	382.7	381.0	355.7	323.7	301.5	304.8	345.3	352.5	406.7	459.9	528.8
27.5°	475.6	477.0	442.4	391.4	344.9	324.1	358.4	365.5	423.0	470.5	541.9
30°	576.9	575.5	538.4	481.9	406.5	356.4	371.4	377.8	431.2	476.2	555.3
32.5°	672.7	669.5	632.8	573.7	485.0	407.1	389.4	393.0	442.0	488.7	573.5
35°	754.5	754.3	722.3	659.3	565.7	470.7	420.2	423.2	462.2	508.4	600.2
37.5°	838.9	836.0	800.2	742.7	648.7	540.4	467.3	466.0	494.0	537.6	633.0
40°	908.2	906.4	878.9	823.6	734.9	617.5	524.3	520.7	531.7	578.0	678.7
42.5°	959.6	959.8	951.2	917.6	826.3	706.6	596.1	590.4	590.2	638.9	739.0
45°	998.5	1001.2	1014.0	1008.9	934.1	810.4	688.0	682.1	672.1	718.0	808.1
47.5°	1016.7	1020.1	1058.9	1079.3	1028.5	913.3	797.5	785.1	765.5	823.2	885.4
50°	1014.8	1020.9	1075.0	1136.9	1114.1	1017.7	916.8	910.9	878.9	934.5	961.8
52.5°	973.2	986.3	1076.0	1172.0	1180.0	1113.9	1040.1	1029.1	1013.6	1050.7	1033.6
55°	860.3	876.2	1033.0	1183.2	1231.3	1197.9	1160.8	1151.8	1126.1	1160.4	1096.2
57.5°	798.9	812.6	942.5	1177.7	1275.0	1275.6	1268.2	1260.9	1239.7	1268.8	1169.6
60°	762.0	775.7	894.1	1157.5	1314.5	1357.5	1369.1	1368.3	1337.7	1392.2	1255.6
62.5°	708.0	726.8	843.8	1105.1	1342.6	1438.3	1473.3	1467.8	1433.8	1520.6	1340.8
65°	598.9	615.3	740.6	1018.7	1326.1	1505.1	1586.3	1589.1	1549.8	1641.5	1408.1
67.5°	420.0	432.0	556.5	837.3	1214.0	1527.1	1701.8	1701.6	1634.6	1703.5	1378.3
70°	243.4	259.9	328.8	517.6	944.5	1427.0	1719.2	1725.1	1600.1	1574.0	1140.6
72.5°	94.2	107.8	186.3	275.0	492.5	1093.1	1478.8	1496.2	1339.2	1214.2	793.8
75°	28.1	31.4	87.7	146.4	197.7	528.0	1001.2	1006.1	918.6	757.4	406.9
77.5°	21.0	23.2	38.3	74.0	69.3	160.0	518.0	565.7	487.6	270.5	112.1
80°	14.3	16.9	27.3	36.1	25.7	42.6	145.6	159.8	148.8	60.8	28.1
82.5°	6.3	8.2	19.4	18.1	9.4	12.2	44.8	47.7	30.8	18.3	9.8
85°	0.6	0.8	7.3	8.0	3.5	2.9	9.4	9.4	6.7	6.3	4.1
87.5°	0.0	0.0	0.2	0.4	0.4	0.6	0.8	1.0	1.2	1.6	2.0
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°	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4	401.4
2.5°	405.1	402.6	405.7	408.1	408.7	404.3	401.6	397.7	396.9	397.1	396.1
5°	410.6	409.4	411.6	408.9	402.0	389.0	377.8	365.3	358.6	354.7	354.3
7.5°	420.8	420.2	417.7	405.7	384.1	355.1	327.2	299.9	283.0	276.8	275.8
10°	435.9	434.6	424.6	396.1	350.0	294.4	247.5	208.3	184.5	177.6	169.0
12.5°	453.2	450.7	428.9	375.5	298.7	221.6	163.1	119.3	98.7	92.6	92.6
15°	469.9	464.6	426.5	341.5	235.5	144.1	91.1	68.9	62.6	61.0	61.0
17.5°	487.0	476.8	416.9	295.0	162.7	85.2	60.8	56.5	55.7	55.9	56.1
20°	503.1	487.2	400.0	239.1	103.8	59.5	54.4	53.4	53.0	53.4	53.2
22.5°	520.7	496.8	374.3	178.2	67.5	53.6	51.8	51.0	50.6	51.2	51.2
25°	538.0	503.7	340.2	119.9	53.6	49.9	48.9	48.1	47.7	47.9	47.9
27.5°	547.0	501.1	295.6	76.4	48.1	46.3	45.3	44.2	43.6	43.4	43.6
30°	553.1	492.9	241.0	54.4	43.6	41.4	40.4	39.5	37.9	36.9	37.3
32.5°	562.7	484.8	181.6	45.7	40.0	36.5	34.9	32.8	30.6	29.6	29.6
35°	574.1	473.6	127.4	41.2	36.1	32.4	29.4	25.9	23.2	22.4	22.4
37.5°	589.2	463.0	84.8	38.1	32.8	28.9	24.7	20.6	17.7	17.3	17.1
40°	611.8	454.0	59.7	35.9	30.0	25.3	20.2	15.9	13.9	13.3	13.3
42.5°	641.1	444.8	47.3	33.6	27.5	21.8	16.1	12.6	11.0	10.6	10.4
45°	677.4	434.0	41.2	31.6	25.1	18.1	12.8	10.6	9.4	9.0	9.0
47.5°	716.8	419.3	38.3	28.9	22.2	14.7	10.8	9.2	8.6	8.4	8.2
50°	755.5	399.6	35.9	26.5	19.0	12.0	9.4	8.4	8.0	7.7	7.7
52.5°	789.4	376.5	32.8	23.6	15.5	10.4	8.4	7.7	7.3	6.9	6.7
55°	818.3	351.5	28.9	20.4	12.6	9.2	7.7	7.1	6.7	6.3	6.1
57.5°	855.6	337.2	23.2	16.5	10.4	8.2	7.1	6.5	6.1	5.5	5.5
60°	897.0	326.8	17.3	13.0	9.0	7.5	6.5	5.9	5.5	4.9	4.9
62.5°	930.2	311.3	13.7	10.6	7.7	6.7	5.9	5.3	4.9	4.3	4.3
65°	942.9	279.3	11.2	8.4	6.3	5.9	5.3	4.9	4.3	3.7	3.7
67.5°	885.8	215.3	9.4	6.7	5.3	5.1	4.7	4.5	3.7	3.3	3.1
70°	701.5	131.3	7.7	5.5	4.5	4.3	4.3	3.9	3.3	3.1	2.9
72.5°	480.7	67.7	6.3	4.5	3.9	3.9	3.7	3.5	3.1	2.9	2.9
75°	249.7	22.6	4.9	3.5	3.1	3.3	3.3	3.1	2.9	2.9	2.7
77.5°	71.6	10.2	3.7	2.7	2.4	2.4	2.7	2.7	2.7	2.4	2.4
80°	18.6	5.9	2.7	2.0	2.0	2.0	2.0	2.2	2.4	2.2	2.2
82.5°	7.5	3.3	1.8	1.6	1.6	1.6	1.6	1.8	2.0	2.0	2.0
85°	4.7	1.6	1.4	1.4	1.4	1.2	1.2	1.4	1.4	1.6	1.6
87.5°	2.9	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
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)