

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: P628932

Luminaire Tested: GWS-SA1A-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

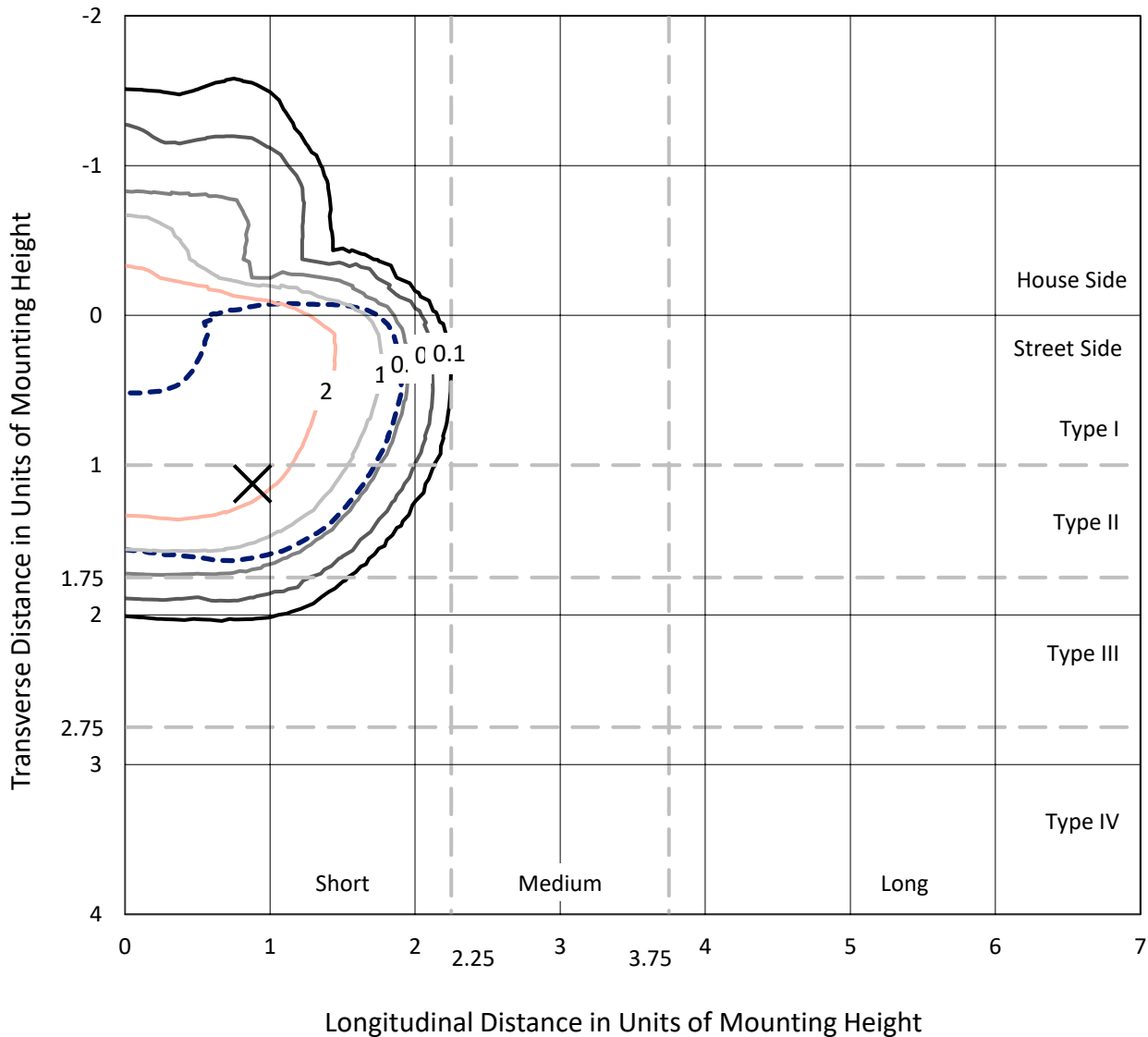
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

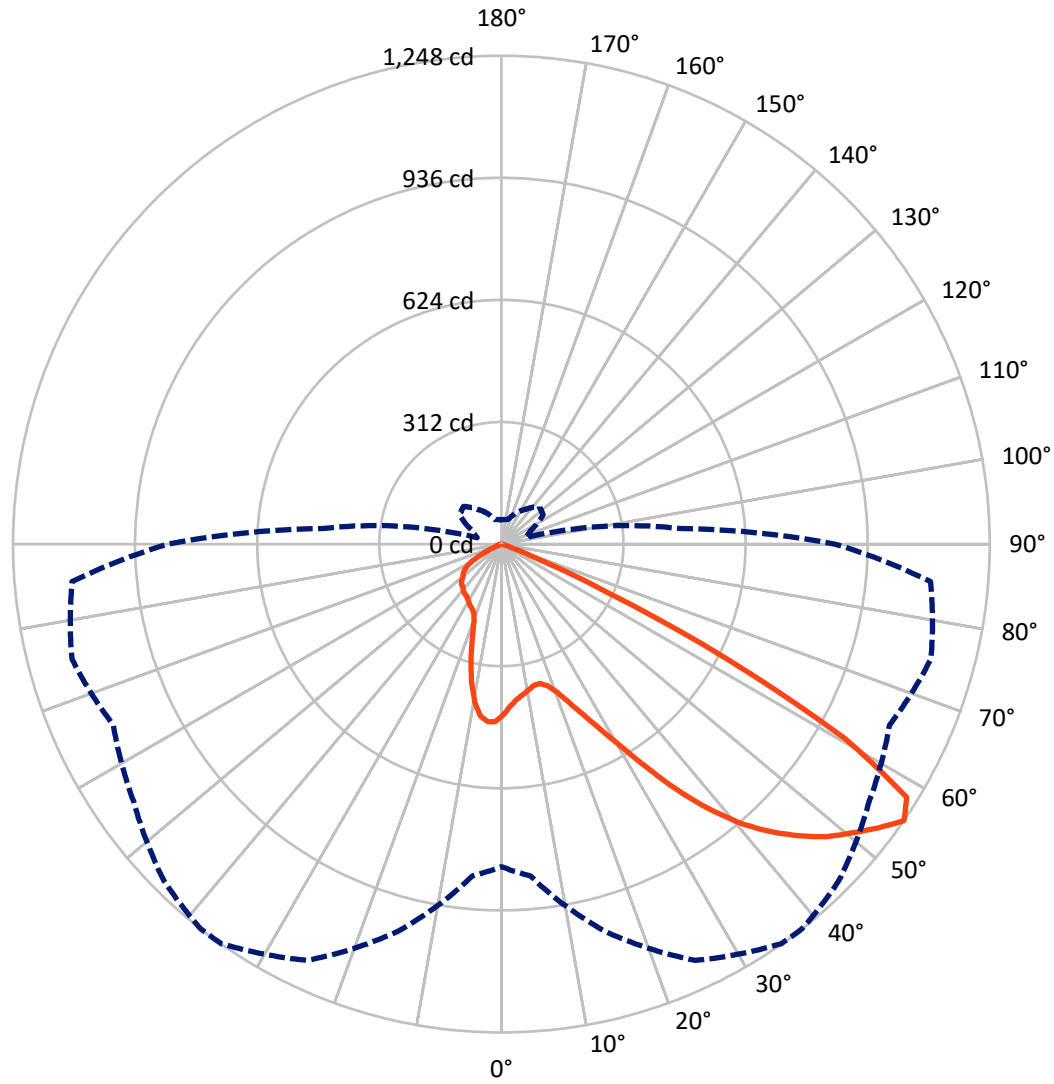
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.5	0.0	355.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1469.0	0.0	1469.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	1824.5	0.0	1824.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	2.2
10°-20°	108.9	6.0
20°-30°	186.9	10.2
30°-40°	310.0	17.0
40°-50°	455.7	25.0
50°-60°	532.5	29.2
60°-70°	180.5	9.9
70°-80°	9.2	0.5
80°-90°	0.3	0.0
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°	1824.5	100.0
0°-180°	1824.5	100.0

Coefficient of Utilization



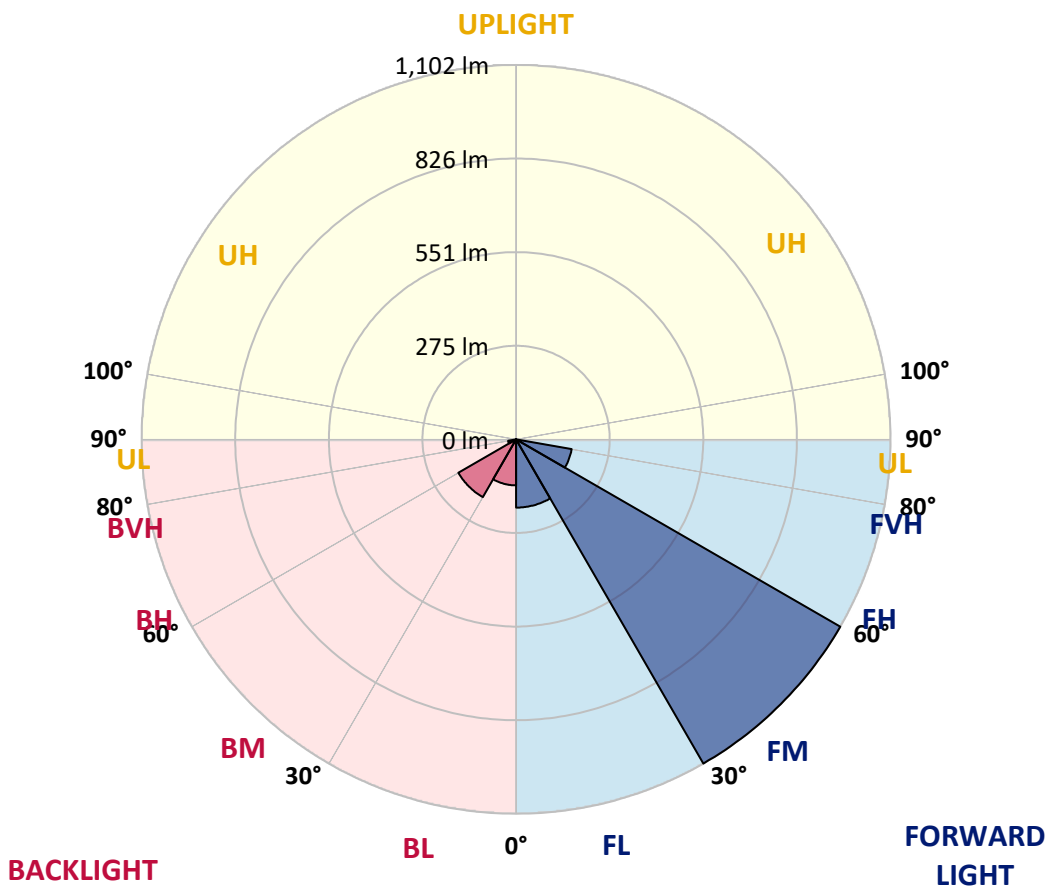
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.8	11.0			
FM (30°-60°)	1101.9	60.4			
FH (60°-80°)	166.1	9.1			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	135.4	7.4	B1/500		
BM (30°-60°)	196.2	10.8	B0/220		
BH (60°-80°)	23.7	1.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	407.5	406.7	408.3	411.7	414.8	415.8	419.0	423.3	426.1	432.5	437.7
5°	389.1	388.7	390.4	393.3	397.5	398.9	403.7	411.0	418.3	429.6	440.7
7.5°	372.5	372.3	374.8	381.2	387.3	389.1	395.0	404.0	413.8	431.1	447.3
10°	350.6	350.8	355.6	364.7	375.8	379.6	388.9	401.9	414.6	436.9	459.4
12.5°	343.5	343.9	346.4	353.5	365.6	370.4	383.5	403.1	419.4	445.2	475.1
15°	360.8	360.8	358.7	359.5	365.0	369.3	383.1	407.3	427.5	455.3	490.5
17.5°	394.4	393.1	387.9	380.8	378.9	380.4	391.4	416.3	439.0	466.9	508.0
20°	439.8	440.2	430.0	415.2	403.3	403.1	409.8	432.1	455.5	480.9	527.0
22.5°	494.9	493.2	479.7	459.4	438.8	437.1	439.8	456.3	479.2	503.0	550.4
25°	558.7	557.9	538.7	511.6	484.2	480.3	480.3	496.5	513.2	534.5	578.3
27.5°	625.4	625.4	606.9	575.6	539.3	532.2	531.2	550.4	561.4	565.6	601.9
30°	694.0	693.2	674.9	642.7	603.9	596.6	593.7	607.9	615.8	603.3	631.3
32.5°	763.7	765.2	746.6	716.8	682.2	677.4	668.4	668.4	674.9	657.3	677.6
35°	838.6	838.1	823.5	803.3	773.7	768.3	753.5	730.3	740.1	732.4	741.6
37.5°	904.7	907.8	900.7	885.7	861.7	856.3	831.9	790.0	797.5	809.6	817.7
40°	971.8	974.3	981.4	976.6	946.4	936.4	893.0	824.2	832.5	874.0	897.4
42.5°	1037.7	1039.0	1053.4	1061.3	1020.8	1003.3	939.3	845.0	853.8	924.5	965.4
45°	1079.6	1082.4	1106.1	1130.3	1086.5	1062.5	979.5	871.7	875.5	959.5	1015.6
47.5°	1078.0	1084.2	1128.9	1172.9	1143.0	1117.2	1027.9	914.5	908.2	992.5	1048.8
50°	1044.4	1051.9	1115.9	1185.8	1183.7	1159.7	1081.7	976.4	956.8	1021.7	1052.9
52.5°	974.7	996.4	1093.2	1187.5	1216.4	1204.4	1148.3	1059.8	1022.5	1063.6	1059.6
55°	824.2	850.9	1024.2	1173.3	1246.1	1247.5	1218.1	1146.8	1093.8	1135.7	1100.7
57.5°	625.6	646.9	788.3	1044.4	1197.1	1221.0	1245.2	1192.7	1137.8	1185.0	1110.3
60°	377.1	401.7	493.6	766.4	966.8	1007.7	1102.6	1092.4	1026.3	1046.5	910.5
62.5°	152.9	165.8	227.9	422.3	608.5	646.7	737.6	753.1	736.8	716.1	552.2
65°	55.9	61.1	91.3	174.6	279.9	293.8	341.8	369.1	391.6	333.5	205.4
67.5°	34.6	38.0	59.4	89.7	101.8	94.7	96.3	114.9	109.7	67.8	36.7
70°	25.7	28.4	46.5	62.1	41.1	31.7	21.5	22.9	20.6	18.1	17.9
72.5°	17.7	20.2	34.8	36.7	15.8	11.3	7.9	11.1	12.5	12.3	12.7
75°	11.7	13.6	21.9	14.4	4.0	3.1	2.7	5.8	7.5	7.5	7.7
77.5°	6.9	7.9	7.7	2.9	0.8	0.8	0.6	1.0	1.7	1.9	2.3
80°	0.8	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
82.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6
85°	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.6	0.6
87.5°	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	441.7	440.2	446.3	450.7	454.2	455.9	453.6	453.4	453.4	448.8	447.5
5°	446.9	447.5	456.1	459.8	460.5	458.4	453.2	449.6	447.5	442.7	440.0
7.5°	456.9	459.0	467.1	466.5	460.9	451.3	437.5	426.9	420.0	412.5	407.9
10°	471.3	475.3	480.3	471.5	453.6	429.2	400.8	380.6	368.5	360.0	354.7
12.5°	488.8	492.8	491.1	470.5	433.1	389.6	353.1	323.9	309.9	302.2	296.8
15°	506.6	509.1	498.2	458.0	397.1	338.5	297.8	268.8	251.7	245.5	240.9
17.5°	524.7	524.1	499.5	433.4	348.9	280.9	240.9	221.1	216.3	215.2	214.8
20°	543.7	538.0	494.5	398.1	290.9	224.0	201.2	202.5	211.3	215.4	216.3
22.5°	565.4	551.2	481.9	350.4	231.7	186.6	188.9	201.2	213.1	218.8	219.6
25°	588.5	563.3	461.1	289.0	182.7	171.6	185.2	199.4	212.1	219.0	219.8
27.5°	603.7	566.2	426.9	227.3	156.8	165.8	180.2	193.7	206.9	214.4	215.4
30°	620.2	565.0	380.4	175.2	148.1	160.8	173.3	185.6	197.7	206.0	206.9
32.5°	644.4	564.1	323.7	142.2	144.5	156.8	166.0	176.2	184.6	189.4	188.7
35°	676.1	563.1	257.6	128.3	142.4	153.7	161.0	165.8	156.6	153.7	154.3
37.5°	716.8	565.6	201.9	122.4	141.8	152.9	159.1	145.4	131.2	125.8	124.9
40°	761.8	572.0	153.9	120.1	143.9	154.9	152.0	129.3	111.8	101.1	98.9
42.5°	807.1	579.1	121.8	119.3	147.4	160.8	140.4	117.6	91.3	85.3	84.5
45°	840.6	577.9	105.3	117.8	150.6	164.1	137.2	100.9	81.5	78.8	79.0
47.5°	857.5	564.1	96.3	114.5	151.8	160.8	129.5	94.1	74.9	77.8	80.3
50°	848.6	528.5	88.0	108.0	149.1	156.4	117.2	88.8	71.5	83.6	89.3
52.5°	837.7	484.7	78.8	98.0	142.6	150.4	112.4	87.4	69.4	80.7	84.9
55°	852.1	456.9	63.8	82.6	129.9	136.2	108.7	87.2	64.6	62.8	62.1
57.5°	831.9	401.7	45.7	59.4	99.7	107.8	105.9	85.7	57.4	57.1	58.0
60°	642.9	245.0	31.3	37.7	61.1	68.8	96.1	82.0	49.4	45.5	45.7
62.5°	365.4	104.3	21.5	23.4	31.3	37.1	73.4	74.5	45.7	43.4	45.7
65°	127.2	37.3	16.7	15.6	17.3	19.8	42.1	57.6	41.5	37.5	38.0
67.5°	26.3	18.6	14.8	12.9	12.9	12.9	21.5	35.9	34.2	29.8	30.2
70°	16.7	15.8	12.9	11.1	10.6	9.8	12.3	19.8	23.6	21.7	21.9
72.5°	12.3	12.1	10.2	9.0	7.9	7.1	7.7	9.8	12.1	12.5	12.7
75°	7.5	7.7	6.7	5.6	5.0	4.4	4.6	4.6	4.6	4.2	4.6
77.5°	2.3	2.5	2.1	1.7	1.5	1.5	1.5	1.3	1.0	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	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)