

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: P628676

Luminaire Tested: GWS-SA1A-727-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-727-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1994.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

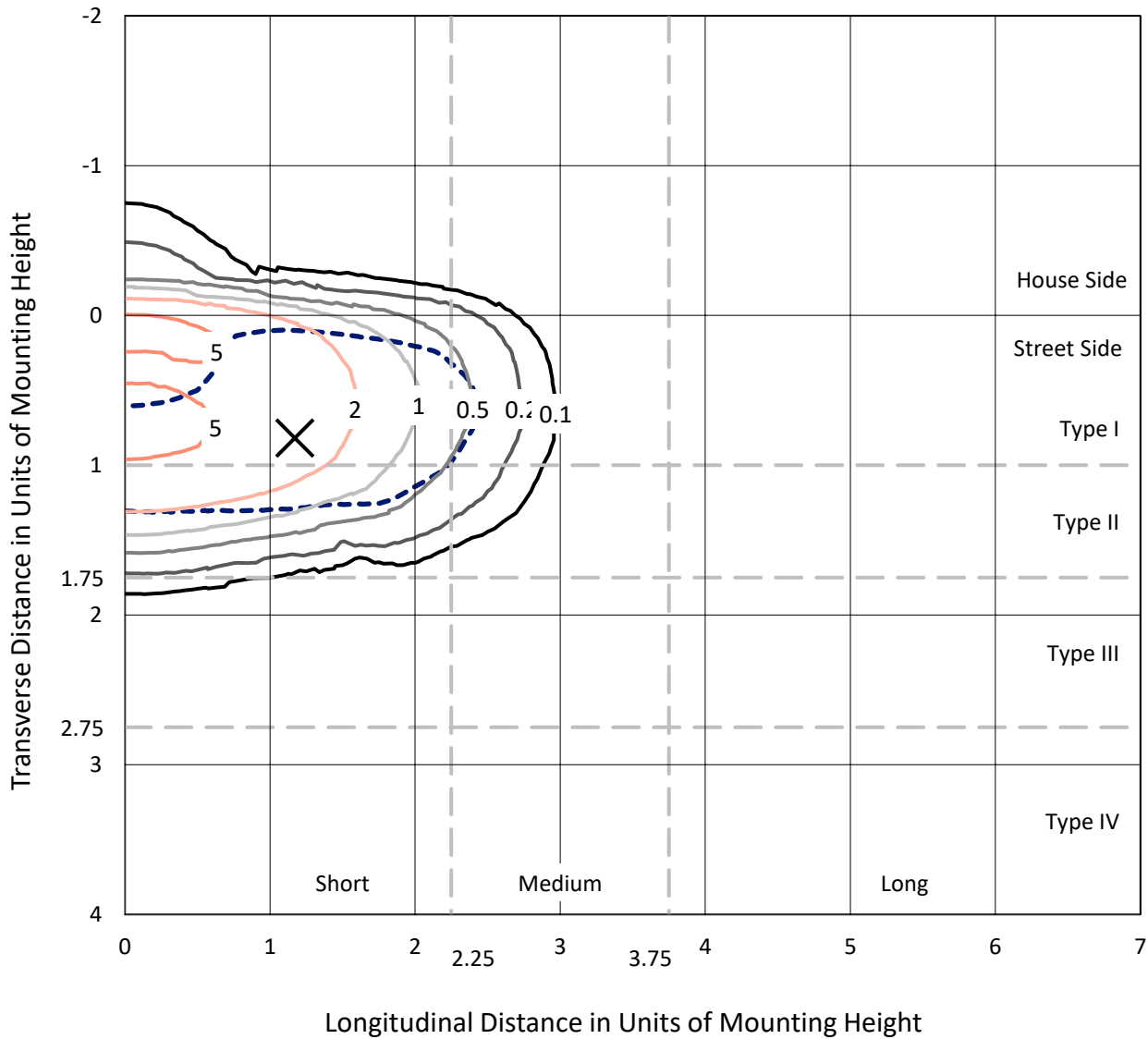
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

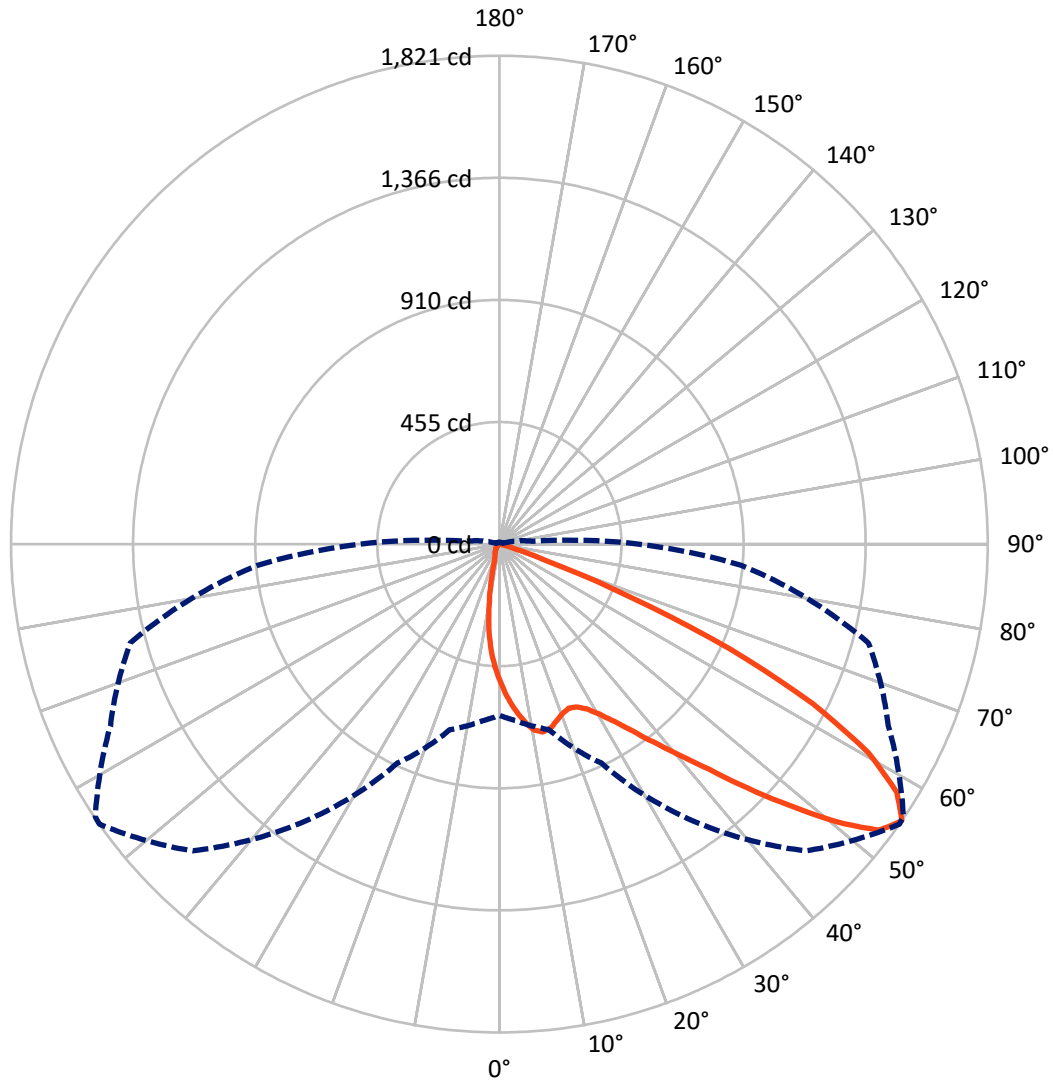
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	123.1	0.0	123.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	1871.3	0.0	1871.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	1994.4	0.0	1994.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	2.3
10°-20°	109.8	5.5
20°-30°	182.8	9.2
30°-40°	311.5	15.6
40°-50°	508.5	25.5
50°-60°	532.4	26.7
60°-70°	268.5	13.5
70°-80°	33.9	1.7
80°-90°	1.3	0.1
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°	1994.4	100.0
0°-180°	1994.4	100.0

Coefficient of Utilization



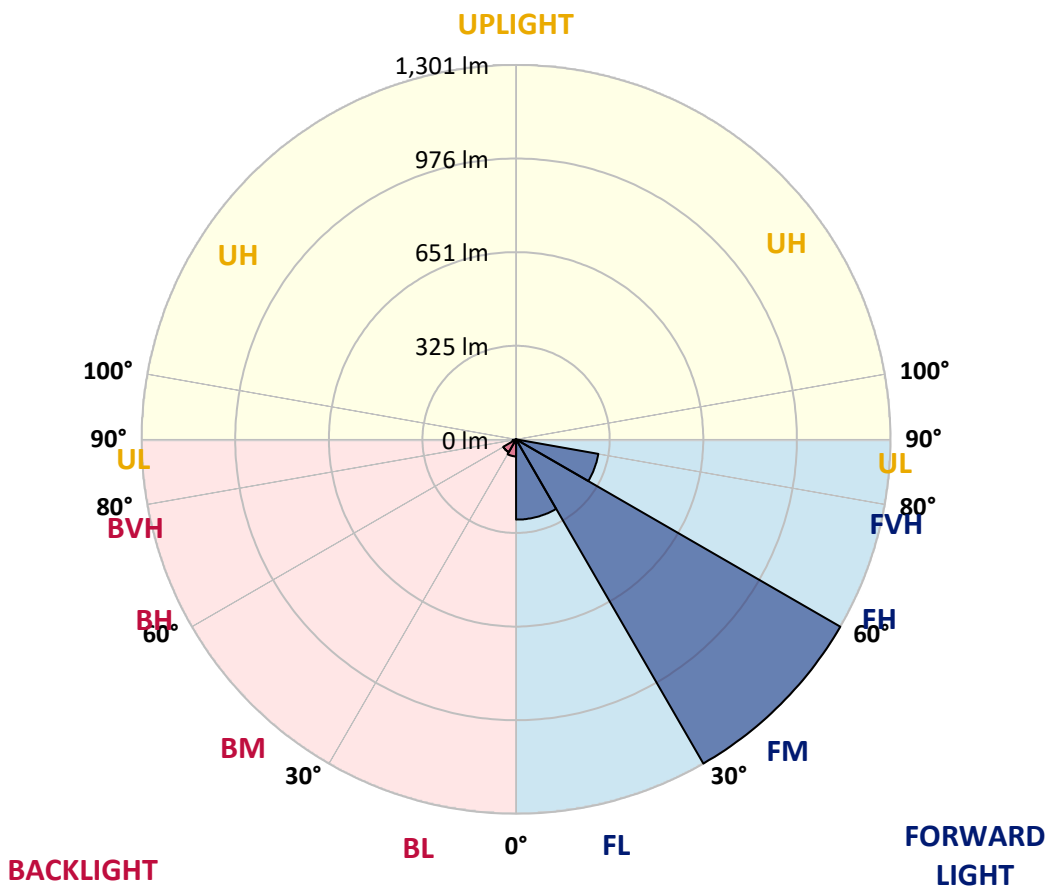
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.0	14.0			
FM (30°-60°)	1301.1	65.2			
FH (60°-80°)	290.1	14.5			G0/660
FVH (80°-90°)	1.2	0.1			G0/10
BL (0°-30°)	59.1	3.0	B0/110		
BM (30°-60°)	51.5	2.6	B0/220		
BH (60°-80°)	12.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2
2.5°	600.7	597.8	602.2	597.1	588.4	581.0	571.5	568.1	552.7	538.3	524.3
5°	673.6	674.5	673.1	666.0	653.7	640.0	620.8	616.5	589.7	562.1	532.3
7.5°	691.7	691.2	694.1	696.8	694.8	687.9	667.0	662.7	629.5	588.0	544.6
10°	635.9	636.3	642.3	660.7	683.5	707.2	704.0	701.6	669.0	617.4	558.2
12.5°	557.2	560.2	566.6	592.8	631.5	685.4	718.8	721.2	705.3	649.6	574.2
15°	523.1	523.8	528.9	544.7	573.5	640.0	712.5	719.1	735.7	682.0	591.6
17.5°	522.2	523.1	525.3	532.3	551.0	604.4	692.2	703.8	758.5	716.8	612.4
20°	554.3	553.8	552.2	548.5	556.7	592.6	673.5	686.2	771.0	750.7	633.4
22.5°	612.4	611.7	604.9	589.4	582.8	603.4	664.2	675.8	778.5	780.9	650.6
25°	679.4	684.2	671.4	647.9	631.5	630.8	672.4	680.6	785.0	807.6	662.4
27.5°	752.9	754.4	743.5	717.1	693.4	674.8	696.1	702.3	792.1	831.5	669.0
30°	833.6	833.0	820.6	789.9	761.1	734.3	736.0	738.4	808.8	858.8	676.4
32.5°	934.3	936.5	914.4	872.6	838.0	801.0	788.2	788.5	839.0	893.9	687.4
35°	1071.2	1065.8	1036.4	976.9	917.9	878.0	856.2	854.4	885.6	941.1	706.7
37.5°	1201.6	1202.2	1171.5	1106.0	1031.5	968.6	937.7	932.6	951.0	1006.6	738.8
40°	1292.2	1293.9	1281.1	1246.8	1167.9	1078.9	1033.5	1028.3	1035.9	1089.5	780.7
42.5°	1340.1	1344.9	1348.4	1356.5	1296.6	1216.7	1146.9	1146.4	1138.4	1183.9	829.3
45°	1342.0	1349.1	1371.0	1425.7	1432.5	1373.8	1298.0	1286.6	1255.7	1285.0	872.8
47.5°	1267.8	1284.3	1330.7	1439.1	1510.8	1530.2	1455.0	1448.0	1361.4	1365.0	905.3
50°	1094.9	1112.1	1197.6	1370.1	1530.5	1654.3	1627.4	1612.9	1449.7	1417.8	921.0
52.5°	917.6	933.3	991.3	1205.7	1448.5	1693.4	1772.6	1755.4	1529.0	1436.3	914.5
55°	638.5	659.5	716.1	901.2	1259.6	1617.3	1820.7	1817.1	1599.8	1424.7	904.5
57.5°	313.0	333.8	390.3	555.6	933.1	1412.0	1747.2	1766.2	1642.0	1412.2	896.3
60°	130.8	139.3	158.7	243.8	522.1	1067.1	1581.3	1607.6	1616.1	1395.3	895.4
62.5°	75.9	77.2	79.3	101.1	203.1	611.7	1311.8	1349.1	1479.9	1373.0	882.0
65°	57.3	57.8	56.9	62.1	83.9	232.0	947.8	998.6	1235.2	1285.7	828.8
67.5°	47.1	47.1	44.8	45.9	52.7	87.0	523.2	594.2	914.0	1056.7	684.4
70°	37.5	38.4	37.3	36.0	37.7	48.1	186.2	230.9	532.3	624.0	399.1
72.5°	28.5	28.5	30.2	29.2	28.0	30.2	65.0	73.0	213.6	260.2	144.1
75°	22.0	22.7	23.9	22.8	21.1	17.9	31.2	33.1	64.4	60.5	32.2
77.5°	11.3	11.4	15.2	16.7	15.7	10.9	13.6	15.0	21.0	18.8	11.9
80°	6.8	7.2	8.5	13.1	10.4	5.8	5.6	6.0	9.9	8.5	4.9
82.5°	2.9	3.1	4.8	4.8	4.3	2.2	2.2	2.2	4.8	4.4	2.0
85°	0.0	0.0	0.9	0.7	0.7	0.9	0.9	0.9	1.2	1.7	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
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°	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2
2.5°	515.2	504.3	489.7	476.4	458.5	448.4	434.4	423.0	413.3	410.2	408.8
5°	515.4	496.7	465.3	433.9	395.4	365.0	333.8	309.1	288.8	282.3	280.6
7.5°	518.8	491.2	440.4	383.4	319.0	265.8	218.2	175.6	155.8	149.2	147.8
10°	523.4	486.6	411.6	322.9	230.3	162.0	114.7	87.5	74.5	67.3	68.4
12.5°	529.4	482.8	379.7	257.4	152.4	89.0	63.1	52.9	50.1	48.8	48.1
15°	537.4	478.4	340.1	192.5	93.4	57.3	48.6	45.9	44.8	44.2	44.0
17.5°	545.6	473.3	299.9	135.4	62.1	47.6	43.6	42.3	41.6	41.1	40.9
20°	554.3	464.6	252.7	93.3	48.9	42.8	40.2	38.7	37.8	37.0	36.8
22.5°	558.0	450.6	207.5	65.3	43.5	39.4	36.1	34.3	33.2	32.6	32.6
25°	554.5	427.9	160.8	49.6	39.6	35.6	32.4	30.3	29.5	28.8	28.8
27.5°	544.9	398.8	117.3	41.1	35.3	31.7	28.6	26.8	26.1	25.7	25.7
30°	534.3	362.0	82.7	35.3	30.5	27.6	25.1	23.9	23.7	23.4	23.4
32.5°	525.3	327.5	56.9	31.0	26.9	24.0	22.3	21.8	22.0	21.7	21.8
35°	520.4	293.8	42.3	27.6	24.0	21.3	20.5	20.5	20.5	20.3	20.3
37.5°	522.4	260.5	34.4	25.2	21.5	19.4	18.6	18.9	19.3	19.3	19.3
40°	532.6	231.0	30.5	23.0	19.3	17.7	17.0	17.6	18.1	18.4	18.4
42.5°	545.6	207.2	27.6	21.1	17.7	16.0	15.7	16.2	16.7	17.0	17.0
45°	553.8	183.1	24.7	18.8	16.2	14.2	14.2	14.8	14.7	14.8	14.8
47.5°	557.5	164.0	21.8	16.2	13.8	12.3	12.4	12.8	12.4	12.8	12.8
50°	548.3	144.8	19.3	13.5	11.4	10.7	11.1	10.9	10.9	11.6	11.6
52.5°	531.4	130.4	17.0	11.4	9.7	9.5	9.9	9.2	9.4	9.4	9.2
55°	519.0	122.2	15.2	9.9	8.4	8.5	8.4	7.2	6.5	5.8	5.6
57.5°	512.8	119.0	13.8	8.9	7.5	7.5	6.8	4.9	3.8	2.9	2.6
60°	511.5	115.1	12.4	7.7	6.6	6.3	4.9	2.9	1.9	1.4	1.2
62.5°	498.5	105.5	11.3	6.1	5.8	5.1	3.1	1.7	1.0	0.7	0.5
65°	456.1	86.8	10.1	4.8	4.4	3.8	1.9	1.0	0.5	0.2	0.0
67.5°	362.8	61.5	8.9	3.6	3.1	2.4	1.2	0.7	0.2	0.0	0.0
70°	209.2	33.2	7.3	2.6	2.0	1.5	0.9	0.3	0.0	0.0	0.0
72.5°	69.9	15.5	5.6	1.7	1.5	1.2	0.5	0.2	0.0	0.0	0.0
75°	15.3	9.2	3.8	1.2	1.0	0.9	0.3	0.0	0.0	0.0	0.0
77.5°	5.8	6.5	1.9	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
80°	2.2	4.3	0.9	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	1.7	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.7	0.9	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.2	0.2	0.2	0.0	0.0	0.0	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)