

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: P628846

Luminaire Tested: GWS-SA1A-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1669.8 lumens
Efficiency: N/A
Efficacy: 84.8 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

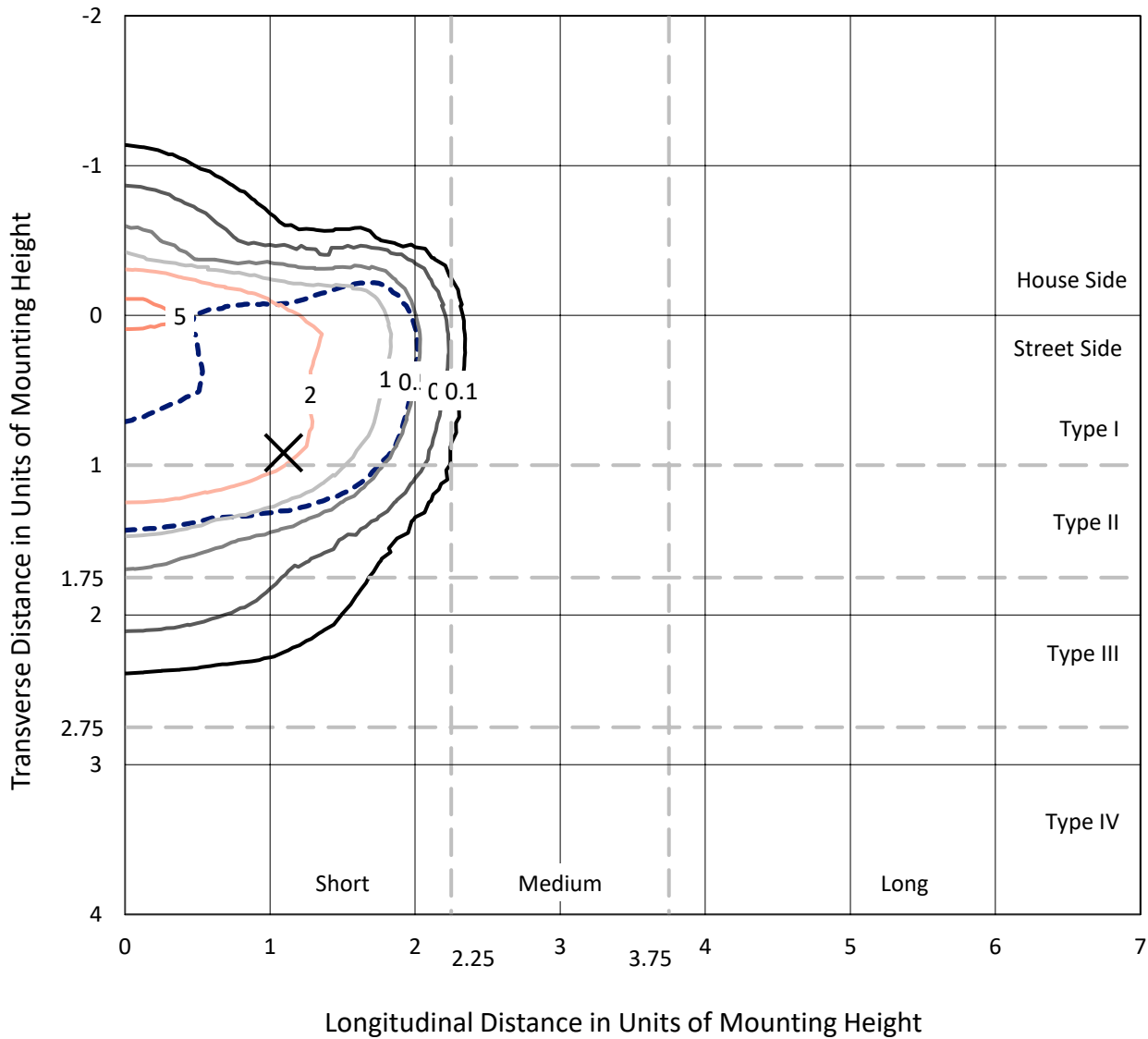
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

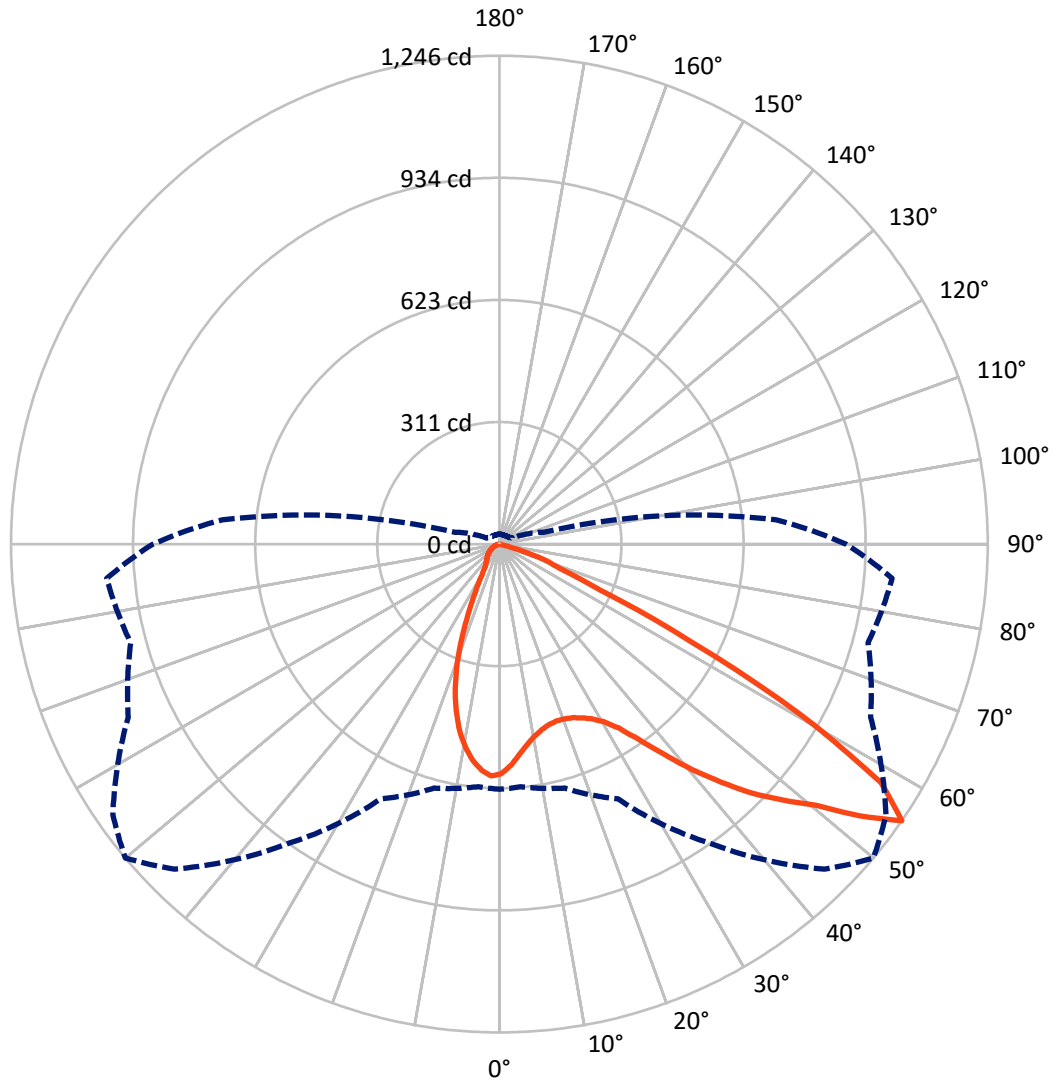
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.0	0.0	329.0
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	1340.8	0.0	1340.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	1669.8	0.0	1669.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	3.1
10°-20°	126.6	7.6
20°-30°	178.6	10.7
30°-40°	264.3	15.8
40°-50°	381.3	22.8
50°-60°	449.7	26.9
60°-70°	200.6	12.0
70°-80°	17.2	1.0
80°-90°	0.0	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°	1669.8	100.0
0°-180°	1669.8	100.0

Coefficient of Utilization



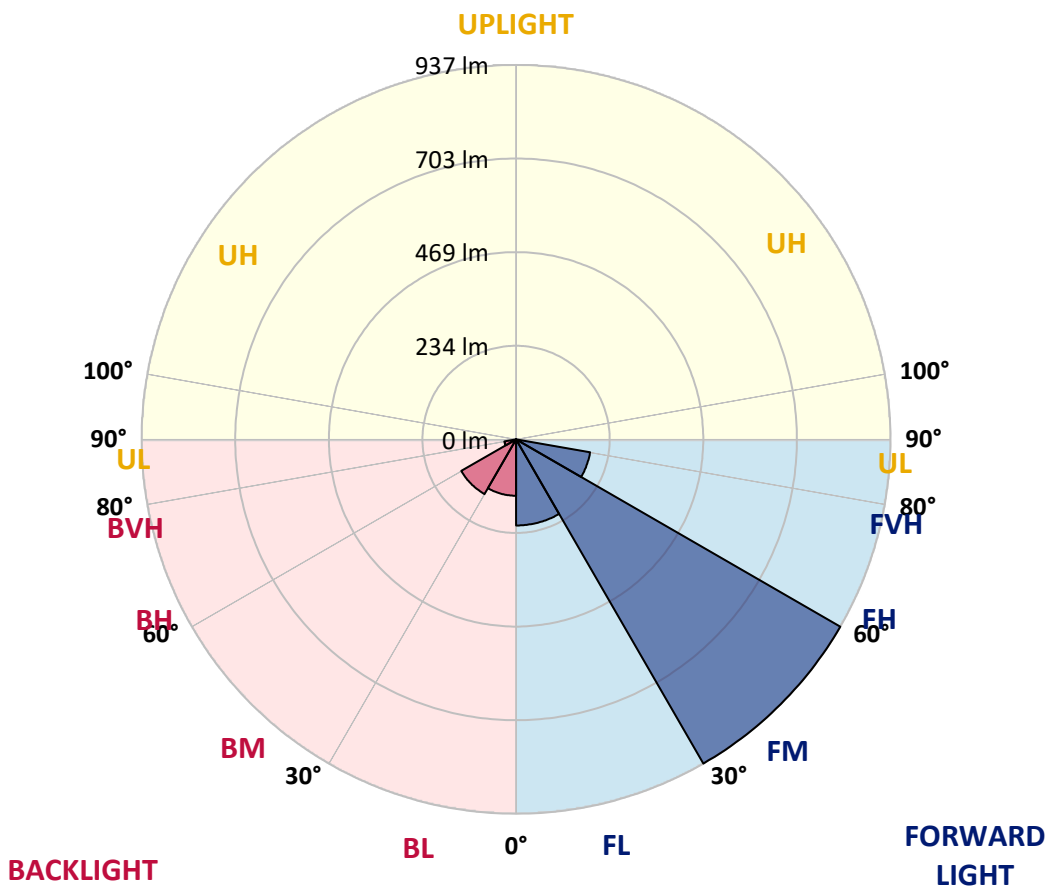
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.6	12.9			
FM (30°-60°)	937.0	56.1			
FH (60°-80°)	188.2	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	141.1	8.4	B1/500		
BM (30°-60°)	158.2	9.5	B0/220		
BH (60°-80°)	29.7	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	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°	45°	50°	55°	65°	75°	85°
0°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	544.3	544.7	544.9	550.4	552.4	560.6	564.9	567.1	573.0	579.9	585.7
5°	507.8	507.2	508.2	515.1	519.6	531.6	538.2	542.6	555.7	572.0	585.7
7.5°	476.0	477.2	478.4	486.0	492.7	505.7	515.1	521.9	540.0	564.3	587.3
10°	453.6	453.6	455.4	464.0	471.9	488.0	497.4	506.0	527.6	557.3	589.1
12.5°	437.0	437.3	439.5	449.3	458.5	475.2	485.0	493.3	517.2	550.4	589.5
15°	429.3	428.7	430.5	440.9	451.1	466.8	477.0	485.2	509.8	546.5	591.6
17.5°	427.3	426.9	428.3	438.5	448.9	464.2	474.2	482.3	508.8	547.7	597.7
20°	433.2	432.4	431.7	440.5	450.3	465.4	475.8	485.0	513.7	554.5	607.1
22.5°	447.2	447.2	445.8	450.1	456.6	470.3	481.1	493.1	526.5	567.9	620.9
25°	473.1	471.1	468.4	470.3	469.5	478.0	490.9	507.6	550.8	590.1	637.8
27.5°	502.7	504.5	500.0	500.2	493.1	490.1	504.9	530.2	586.9	621.5	662.9
30°	542.8	541.4	541.6	541.0	524.5	510.0	526.1	559.8	632.3	669.4	695.5
32.5°	574.2	576.3	583.0	586.9	565.3	542.0	559.2	599.9	684.1	724.1	735.5
35°	607.5	611.1	624.8	637.4	619.3	592.6	610.9	653.1	732.8	778.1	781.3
37.5°	642.5	649.9	666.2	688.4	685.5	661.9	678.6	715.7	771.2	810.7	819.3
40°	682.7	689.8	716.5	748.5	755.3	750.0	755.5	777.1	796.4	812.1	835.6
42.5°	726.7	736.5	770.3	813.1	838.4	843.1	830.3	828.0	807.4	795.8	832.1
45°	778.7	790.1	828.4	883.9	924.0	930.4	908.1	879.4	814.4	783.8	821.7
47.5°	837.0	847.8	885.9	952.6	1012.3	1014.8	976.0	929.7	835.0	797.7	829.7
50°	856.6	863.3	896.3	974.6	1084.7	1103.4	1047.4	986.4	876.3	838.4	868.4
52.5°	789.3	791.9	820.7	899.8	1070.0	1190.5	1151.5	1071.0	949.9	900.6	928.1
55°	625.4	621.1	644.4	716.9	930.0	1172.7	1245.9	1203.9	1044.7	973.6	1005.8
57.5°	437.5	432.4	427.1	476.2	693.9	994.2	1148.1	1222.5	1135.0	1045.9	1089.6
60°	359.6	354.7	329.0	306.4	419.5	713.9	881.8	1021.9	1127.7	1042.3	1086.9
62.5°	310.7	307.8	297.4	266.6	246.9	407.5	552.2	686.4	865.3	818.4	820.9
65°	244.0	243.2	250.3	253.6	218.3	225.5	281.7	356.7	467.8	441.1	418.3
67.5°	166.7	164.9	178.4	219.3	210.0	178.0	164.9	166.3	202.4	123.7	98.3
70°	106.0	101.7	101.9	136.0	170.8	140.5	127.2	111.9	100.7	18.3	20.8
72.5°	67.9	65.2	56.1	61.4	79.1	68.5	69.1	59.5	39.8	9.8	11.4
75°	28.5	26.3	20.2	16.1	15.9	10.0	8.8	8.2	5.5	5.5	5.9
77.5°	0.2	0.0	0.0	0.2	0.4	0.2	0.2	0.4	0.8	1.2	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	589.1	584.2	589.7	591.8	591.6	591.8	585.9	581.8	581.6	576.5	574.0
5°	591.4	587.5	591.6	588.9	582.6	574.6	564.0	554.9	550.8	544.9	542.0
7.5°	595.6	591.6	591.0	580.4	564.7	547.9	529.2	512.5	503.5	492.7	493.3
10°	598.7	594.0	586.1	564.5	538.4	511.7	483.7	458.9	443.2	428.7	426.2
12.5°	599.9	593.0	574.4	541.8	505.1	470.3	429.3	393.8	369.4	350.4	347.8
15°	602.2	591.0	559.6	514.5	464.2	414.8	362.6	314.1	281.7	259.9	261.7
17.5°	605.6	588.7	542.8	483.9	420.1	350.4	279.9	224.2	194.5	181.8	182.0
20°	610.5	586.1	524.5	450.3	367.3	277.6	195.7	153.7	145.3	144.9	144.3
22.5°	617.0	583.4	504.9	413.4	304.8	194.5	130.3	117.2	120.7	127.4	128.6
25°	624.8	580.2	483.1	371.8	236.5	127.6	97.6	95.6	104.0	112.9	115.0
27.5°	636.8	578.5	458.2	324.5	165.9	91.5	79.9	81.1	88.7	96.2	98.1
30°	657.2	581.6	431.1	271.5	106.6	73.0	69.3	71.1	75.2	79.1	80.7
32.5°	684.9	590.5	404.8	213.6	76.0	63.4	62.6	63.6	65.2	67.5	68.1
35°	717.3	606.0	377.7	152.9	62.8	57.9	57.1	57.1	57.9	58.3	58.5
37.5°	744.0	622.3	352.2	101.7	56.3	53.6	52.4	51.8	51.6	52.0	52.2
40°	755.7	629.1	324.5	74.0	51.6	49.7	47.9	46.1	46.1	47.5	47.7
42.5°	747.5	621.5	292.5	61.2	48.3	45.7	42.8	41.2	42.0	43.4	43.8
45°	730.2	603.0	257.3	54.0	45.1	41.6	38.3	37.3	38.1	40.0	40.4
47.5°	727.3	590.8	215.1	49.3	41.6	38.1	34.7	33.6	34.7	36.1	36.5
50°	755.7	601.4	168.2	45.3	38.3	34.5	31.6	30.6	31.2	32.0	32.4
52.5°	807.4	640.7	135.8	41.4	34.5	30.8	28.9	27.7	27.7	28.5	28.7
55°	883.9	709.4	117.2	36.9	30.0	27.9	26.3	25.1	25.1	25.5	25.7
57.5°	971.9	792.6	121.5	31.0	26.3	25.3	23.9	22.8	23.2	23.2	23.2
60°	959.7	786.4	130.1	26.1	23.2	22.8	21.6	21.2	22.2	21.4	21.0
62.5°	706.9	543.3	68.1	21.4	20.0	19.6	18.8	19.6	21.0	18.8	17.9
65°	343.3	263.0	27.3	17.5	16.9	16.5	16.1	17.3	18.1	14.7	13.9
67.5°	80.7	65.6	17.7	14.9	14.1	13.3	13.7	13.9	13.3	10.0	9.6
70°	21.0	20.6	13.9	12.4	11.2	10.4	10.4	10.2	8.8	6.3	5.9
72.5°	11.4	11.2	10.0	9.4	7.7	6.9	7.1	6.3	4.9	3.7	3.5
75°	5.7	6.1	5.7	5.3	4.3	3.9	3.9	3.5	2.4	1.4	1.4
77.5°	1.2	1.4	1.4	1.2	1.0	0.8	0.8	1.0	0.4	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)