

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: P628822

Luminaire Tested: GWS-SA1A-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628822
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1759.1 lumens
Efficiency: N/A
Efficacy: 89.3 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

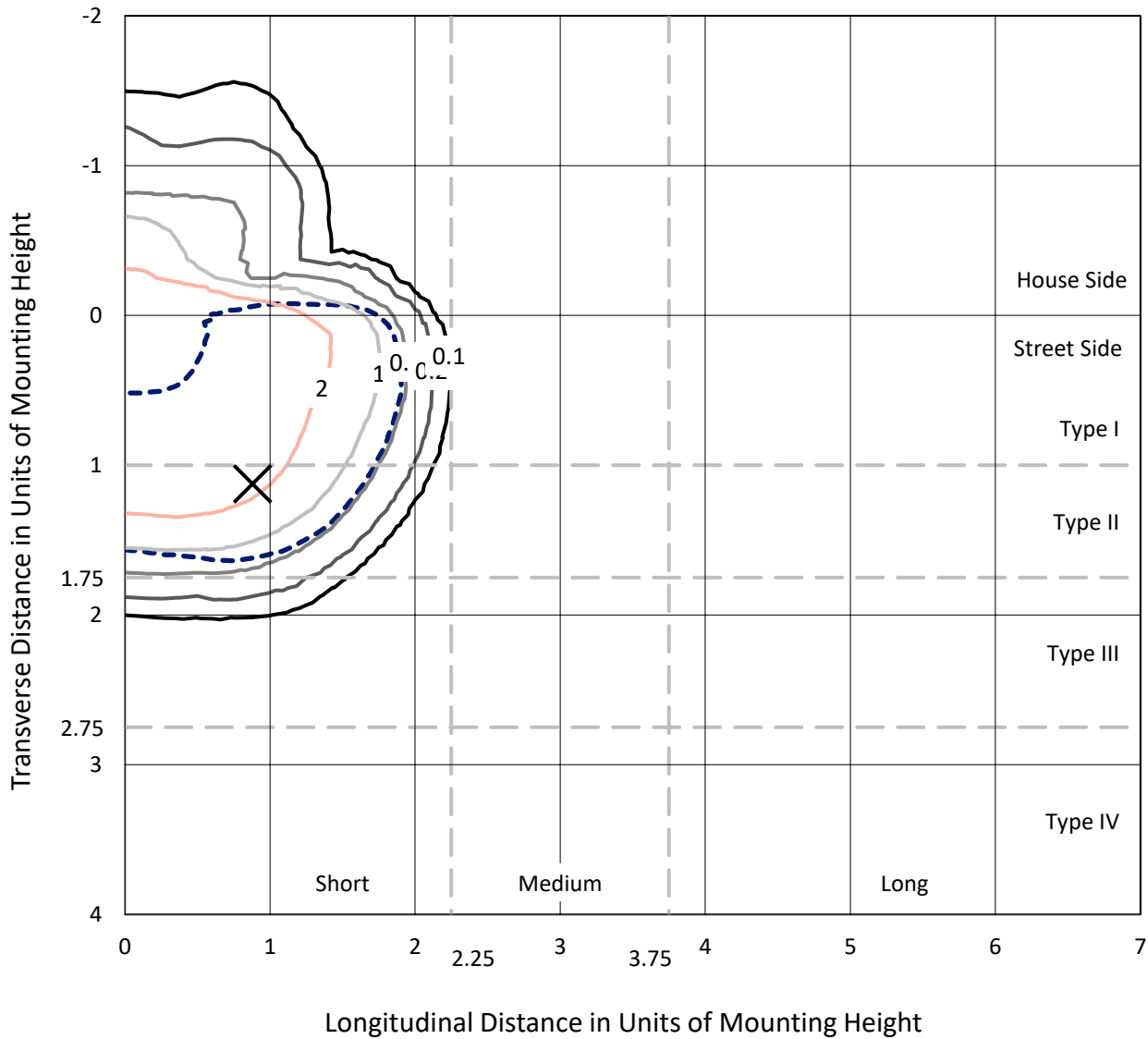
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

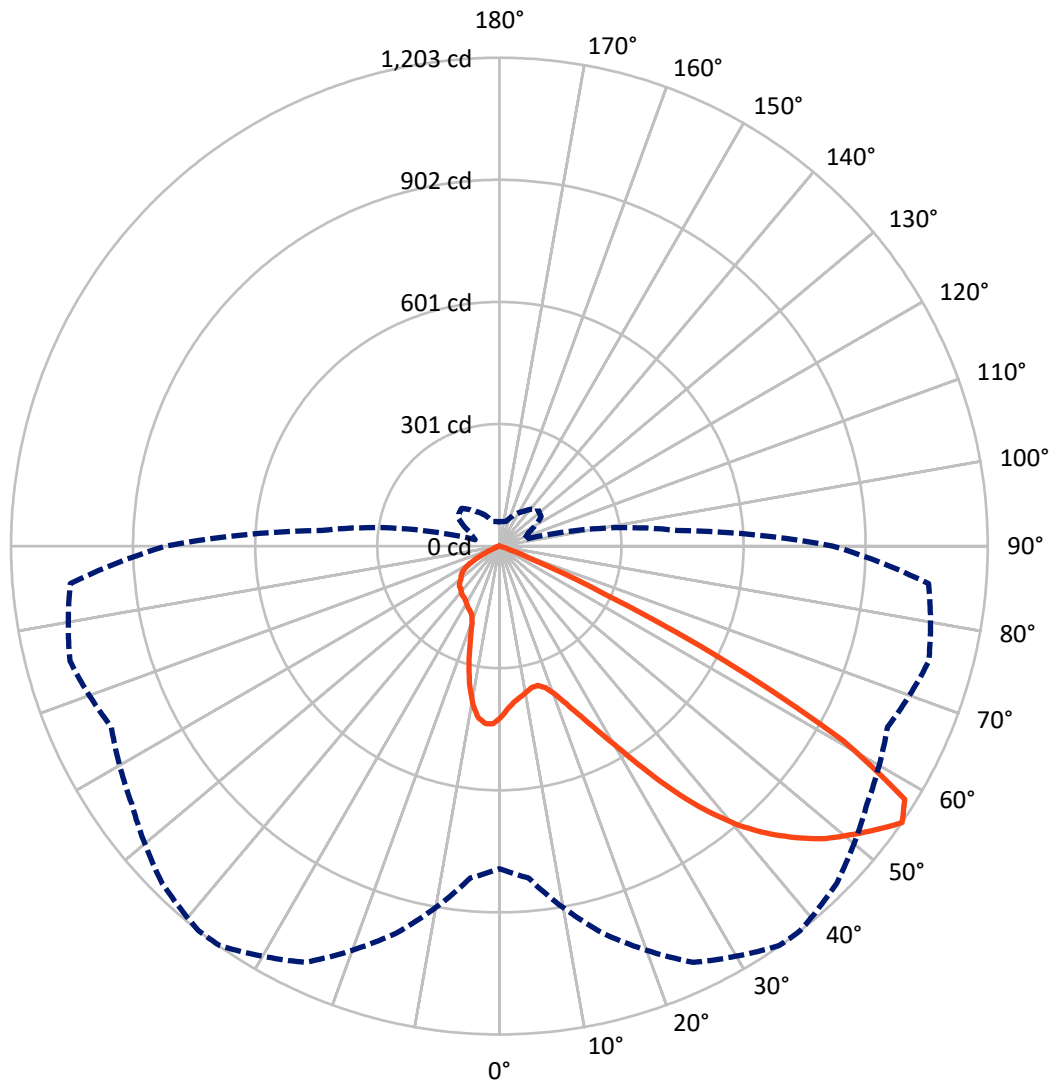
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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	342.7	0.0	342.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1416.4	0.0	1416.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	1759.1	0.0	1759.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	2.2
10°-20°	105.0	6.0
20°-30°	180.2	10.2
30°-40°	298.9	17.0
40°-50°	439.4	25.0
50°-60°	513.4	29.2
60°-70°	174.0	9.9
70°-80°	8.9	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°	1759.1	100.0
0°-180°	1759.1	100.0

Coefficient of Utilization



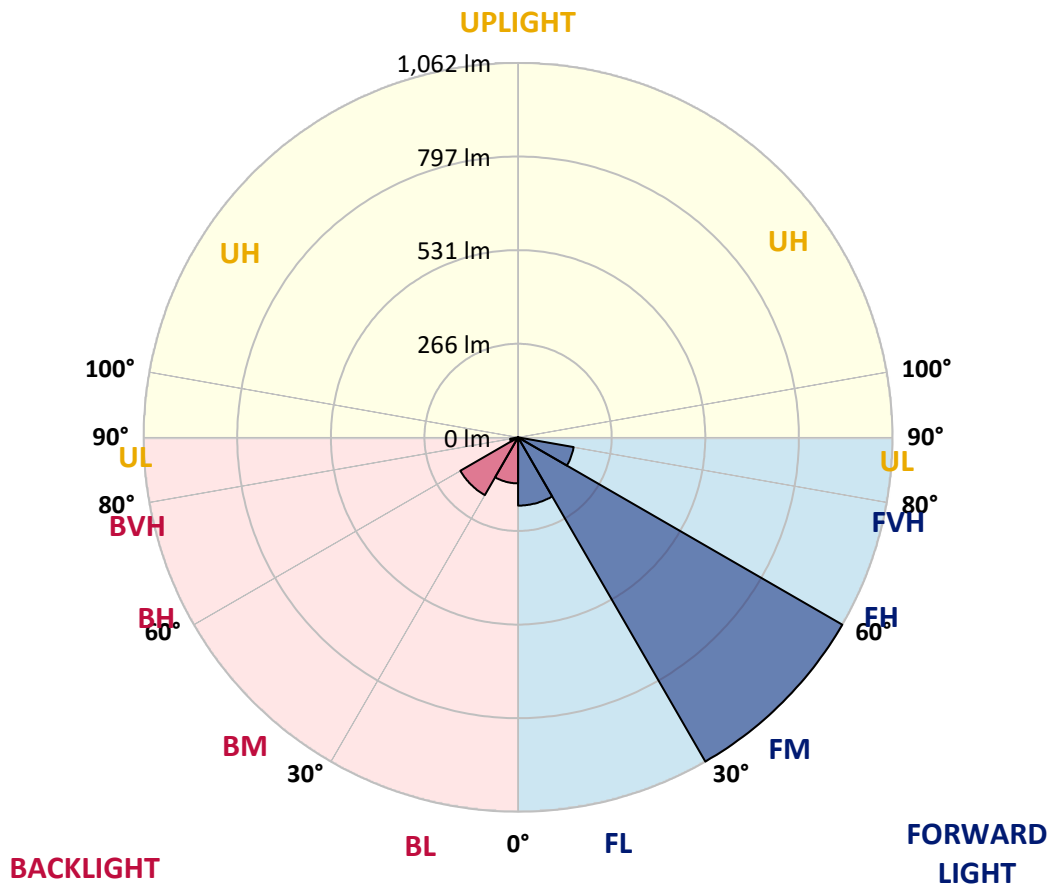
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.6	11.0			
FM (30°-60°)	1062.4	60.4			
FH (60°-80°)	160.1	9.1			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	130.6	7.4	B1/500		
BM (30°-60°)	189.2	10.8	B0/220		
BH (60°-80°)	22.8	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°	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8
2.5°	392.9	392.1	393.7	396.9	399.9	400.9	404.0	408.2	410.8	417.0	422.0
5°	375.2	374.8	376.4	379.2	383.2	384.6	389.3	396.3	403.3	414.2	424.9
7.5°	359.1	358.9	361.3	367.6	373.4	375.2	380.8	389.5	398.9	415.6	431.3
10°	338.0	338.2	342.8	351.7	362.3	365.9	375.0	387.5	399.7	421.2	443.0
12.5°	331.2	331.6	334.0	340.8	352.5	357.1	369.8	388.7	404.4	429.3	458.0
15°	347.9	347.9	345.8	346.6	351.9	356.1	369.4	392.7	412.2	438.9	472.9
17.5°	380.2	379.0	374.0	367.2	365.3	366.8	377.4	401.3	423.3	450.2	489.8
20°	424.1	424.5	414.6	400.3	388.9	388.7	395.1	416.6	439.1	463.7	508.1
22.5°	477.1	475.5	462.5	443.0	423.1	421.4	424.1	439.9	462.1	485.0	530.6
25°	538.7	537.9	519.4	493.2	466.9	463.1	463.1	478.7	494.8	515.3	557.6
27.5°	603.0	603.0	585.1	555.0	520.0	513.1	512.1	530.6	541.3	545.3	580.3
30°	669.2	668.4	650.7	619.7	582.3	575.3	572.4	586.1	593.8	581.7	608.6
32.5°	736.3	737.7	719.8	691.1	657.7	653.1	644.4	644.4	650.7	633.8	653.3
35°	808.5	808.1	794.0	774.5	746.0	740.7	726.5	704.1	713.6	706.2	715.0
37.5°	872.2	875.3	868.4	853.9	830.8	825.6	802.1	761.7	768.9	780.6	788.4
40°	937.0	939.4	946.2	941.6	912.5	902.8	861.0	794.6	802.7	842.7	865.2
42.5°	1000.5	1001.7	1015.6	1023.2	984.2	967.3	905.6	814.7	823.2	891.3	930.8
45°	1040.9	1043.6	1066.5	1089.8	1047.6	1024.5	944.4	840.5	844.1	925.1	979.2
47.5°	1039.3	1045.4	1088.4	1130.8	1102.1	1077.1	991.1	881.7	875.7	956.9	1011.2
50°	1007.0	1014.2	1075.9	1143.3	1141.3	1118.2	1043.0	941.4	922.5	985.0	1015.2
52.5°	939.8	960.7	1054.0	1144.9	1172.8	1161.2	1107.1	1021.8	985.8	1025.5	1021.6
55°	794.6	820.4	987.5	1131.2	1201.4	1202.8	1174.5	1105.7	1054.6	1095.0	1061.2
57.5°	603.2	623.7	760.0	1007.0	1154.1	1177.3	1200.6	1149.9	1097.0	1142.5	1070.5
60°	363.5	387.3	475.9	738.9	932.2	971.6	1063.1	1053.2	989.5	1009.0	877.9
62.5°	147.4	159.9	219.8	407.2	586.7	623.5	711.2	726.1	710.4	690.5	532.4
65°	53.9	58.9	88.1	168.3	269.8	283.3	329.6	355.9	377.6	321.5	198.1
67.5°	33.4	36.6	57.3	86.5	98.1	91.3	92.9	110.8	105.8	65.3	35.4
70°	24.7	27.3	44.8	59.9	39.6	30.6	20.7	22.1	19.9	17.5	17.3
72.5°	17.1	19.5	33.6	35.4	15.3	10.9	7.6	10.7	12.1	11.9	12.3
75°	11.3	13.1	21.1	13.9	3.8	3.0	2.6	5.6	7.2	7.2	7.4
77.5°	6.6	7.6	7.4	2.8	0.8	0.8	0.6	1.0	1.6	1.8	2.2
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°	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8	421.8
2.5°	425.9	424.5	430.3	434.5	437.9	439.5	437.3	437.1	437.1	432.7	431.5
5°	430.9	431.5	439.7	443.4	444.0	442.0	436.9	433.5	431.5	426.9	424.3
7.5°	440.5	442.6	450.4	449.8	444.4	435.1	421.8	411.6	405.0	397.7	393.3
10°	454.4	458.2	463.1	454.6	437.3	413.8	386.5	367.0	355.3	347.0	342.0
12.5°	471.3	475.1	473.5	453.6	417.6	375.6	340.4	312.3	298.8	291.4	286.1
15°	488.4	490.8	480.4	441.6	382.8	326.3	287.1	259.2	242.7	236.7	232.2
17.5°	505.9	505.3	481.6	417.8	336.4	270.8	232.2	213.1	208.5	207.5	207.1
20°	524.2	518.8	476.7	383.8	280.5	215.9	194.0	195.2	203.7	207.7	208.5
22.5°	545.1	531.4	464.7	337.8	223.4	180.0	182.2	194.0	205.5	210.9	211.7
25°	567.4	543.1	444.6	278.7	176.1	165.5	178.6	192.2	204.5	211.1	211.9
27.5°	582.1	545.9	411.6	219.2	151.2	159.9	173.7	186.8	199.5	206.7	207.7
30°	598.0	544.7	366.8	168.9	142.8	155.0	167.1	179.0	190.6	198.7	199.5
32.5°	621.3	543.9	312.1	137.1	139.3	151.2	160.1	169.9	177.9	182.6	182.0
35°	651.9	542.9	248.3	123.7	137.3	148.2	155.2	159.9	151.0	148.2	148.8
37.5°	691.1	545.3	194.6	118.0	136.7	147.4	153.4	140.1	126.5	121.2	120.4
40°	734.5	551.5	148.4	115.8	138.7	149.4	146.6	124.7	107.8	97.5	95.3
42.5°	778.1	558.4	117.4	115.0	142.2	155.0	135.3	113.4	88.1	82.2	81.4
45°	810.5	557.2	101.5	113.6	145.2	158.2	132.3	97.3	78.6	76.0	76.2
47.5°	826.8	543.9	92.9	110.4	146.4	155.0	124.9	90.7	72.2	75.0	77.4
50°	818.2	509.5	84.9	104.2	143.8	150.8	113.0	85.7	69.0	80.6	86.1
52.5°	807.7	467.3	76.0	94.5	137.5	145.0	108.4	84.2	67.0	77.8	81.8
55°	821.6	440.5	61.5	79.6	125.3	131.3	104.8	84.0	62.3	60.5	59.9
57.5°	802.1	387.3	44.0	57.3	96.1	104.0	102.1	82.6	55.3	55.1	55.9
60°	619.9	236.3	30.2	36.4	58.9	66.4	92.7	79.0	47.7	43.8	44.0
62.5°	352.3	100.5	20.7	22.5	30.2	35.8	70.8	71.8	44.0	41.8	44.0
65°	122.7	36.0	16.1	15.1	16.7	19.1	40.6	55.5	40.0	36.2	36.6
67.5°	25.3	17.9	14.3	12.5	12.5	12.5	20.7	34.6	33.0	28.8	29.2
70°	16.1	15.3	12.5	10.7	10.3	9.5	11.9	19.1	22.7	20.9	21.1
72.5°	11.9	11.7	9.9	8.6	7.6	6.8	7.4	9.5	11.7	12.1	12.3
75°	7.2	7.4	6.4	5.4	4.8	4.2	4.4	4.4	4.4	4.0	4.4
77.5°	2.2	2.4	2.0	1.6	1.4	1.4	1.4	1.2	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)