

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: P628790

Luminaire Tested: GWS-SA1A-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2887.3 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

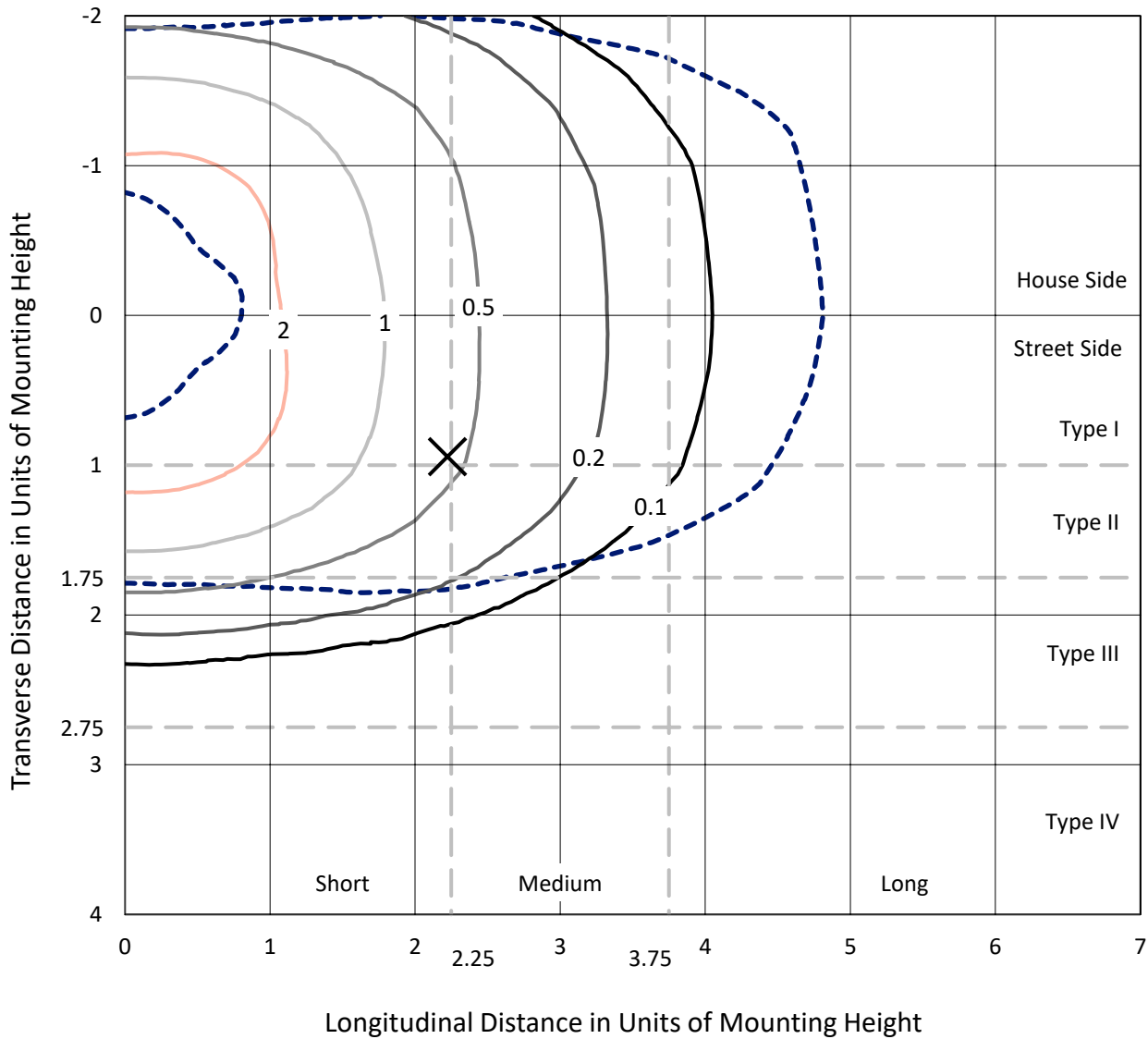
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

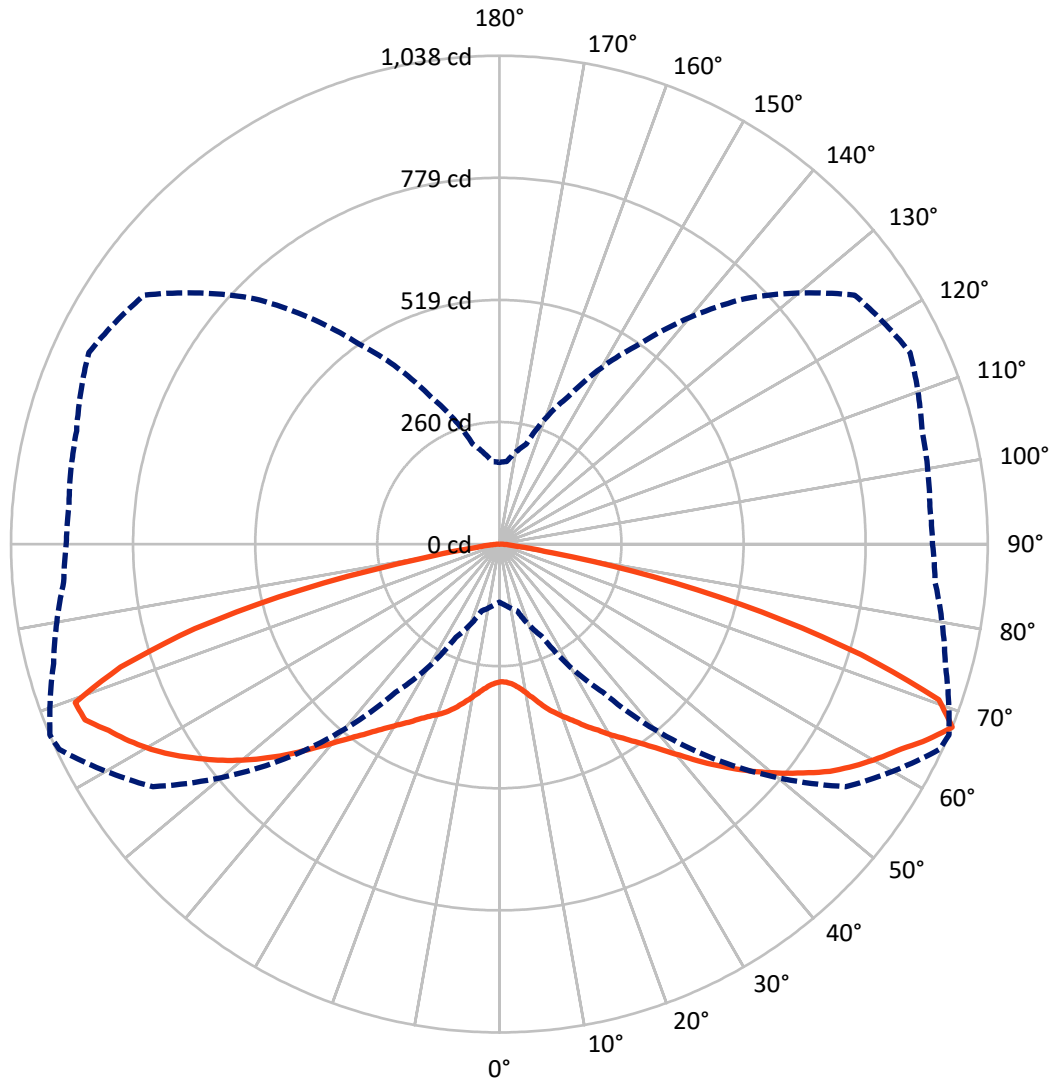
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1427.7	0.0	1427.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	1459.6	0.0	1459.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	2887.3	0.0	2887.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.0
10°-20°	96.9	3.4
20°-30°	190.1	6.6
30°-40°	323.9	11.2
40°-50°	520.1	18.0
50°-60°	706.8	24.5
60°-70°	676.1	23.4
70°-80°	321.4	11.1
80°-90°	23.3	0.8
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°	2887.3	100.0
0°-180°	2887.3	100.0

Coefficient of Utilization



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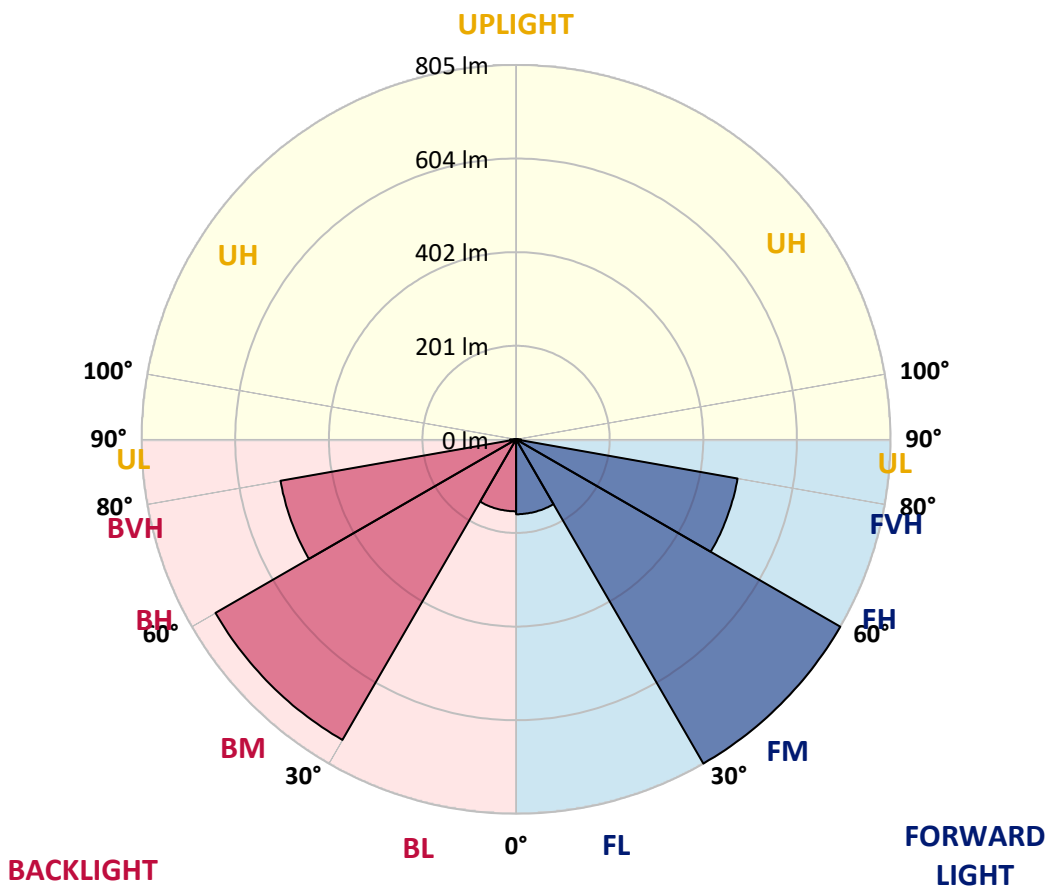
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.0	5.6			
FM (30°-60°)	804.7	27.9			
FH (60°-80°)	483.4	16.7			G0/660
FVH (80°-90°)	10.5	0.4			G1/100
BL (0°-30°)	154.7	5.4	B1/500		
BM (30°-60°)	746.1	25.8	B1/1000		
BH (60°-80°)	514.1	17.8	B2/1000		G2/1000
BVH (80°-90°)	12.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4
2.5°	286.3	286.7	287.3	288.5	289.7	291.6	293.4	293.2	294.0	294.6	295.2
5°	284.7	285.1	286.1	287.7	289.5	292.6	296.4	298.0	299.2	301.4	303.4
7.5°	288.1	288.9	290.3	292.6	295.4	299.2	304.4	307.2	309.0	313.1	316.5
10°	292.8	293.8	296.6	300.8	305.0	310.9	317.5	321.7	322.9	328.1	334.6
12.5°	297.2	298.4	303.0	310.7	318.3	326.1	334.0	339.2	339.6	346.6	353.9
15°	304.2	305.2	311.5	321.3	333.0	343.8	353.5	357.1	358.7	363.7	372.8
17.5°	319.7	320.9	328.9	339.6	351.9	363.3	373.0	376.0	376.0	380.2	387.7
20°	336.4	337.6	348.3	361.9	376.8	388.5	395.9	393.1	392.1	393.3	398.5
22.5°	355.1	357.3	367.6	383.4	401.7	416.0	419.8	411.4	408.6	405.8	407.0
25°	379.0	381.6	391.7	408.6	426.5	441.5	443.8	430.7	429.1	419.2	415.6
27.5°	406.6	408.6	421.0	437.7	454.4	467.1	469.5	453.4	448.0	434.3	425.9
30°	442.2	444.0	454.8	471.3	485.8	494.6	497.6	475.5	471.3	450.4	437.3
32.5°	481.0	481.8	492.8	508.7	521.6	530.0	525.8	500.1	493.8	470.3	452.4
35°	525.4	525.4	539.7	552.5	562.8	565.2	557.2	527.8	520.6	495.0	472.7
37.5°	569.0	570.2	583.5	598.8	607.8	607.4	592.8	560.6	552.3	524.6	499.9
40°	616.3	618.9	632.2	649.3	657.9	656.7	634.2	598.4	589.9	557.2	533.0
42.5°	659.7	663.9	679.4	696.9	706.4	705.6	682.0	641.8	633.6	596.6	572.4
45°	694.3	698.7	718.0	742.3	757.4	756.0	732.3	686.9	676.8	638.0	611.5
47.5°	724.7	729.3	750.8	776.5	800.5	802.9	781.2	732.3	721.6	682.4	652.5
50°	748.0	750.2	774.3	802.5	830.2	843.7	824.8	777.9	765.1	726.3	692.5
52.5°	746.2	749.2	778.9	817.1	854.3	876.5	863.4	821.0	808.5	766.3	733.3
55°	709.4	712.4	747.8	803.5	867.8	900.4	899.0	862.0	852.9	807.1	775.7
57.5°	655.7	662.3	697.5	757.6	850.1	919.5	925.1	899.4	889.9	847.1	817.8
60°	559.6	568.4	609.0	687.1	793.4	913.1	953.1	931.0	925.1	884.3	855.8
62.5°	406.6	413.0	467.1	569.4	709.4	867.2	976.6	963.5	959.1	917.7	890.1
65°	243.5	258.2	301.6	402.7	572.2	780.8	963.7	1006.2	1001.5	952.1	919.5
67.5°	123.3	129.9	147.0	218.4	384.8	646.0	899.2	1032.7	1038.3	981.4	929.9
70°	76.4	78.2	83.0	107.8	192.2	424.5	735.3	963.5	991.1	976.8	902.8
72.5°	61.3	61.7	62.5	67.2	92.3	198.5	464.9	754.6	804.3	912.3	864.0
75°	50.9	51.1	51.3	52.7	57.5	81.0	226.2	518.6	576.7	775.3	801.1
77.5°	40.8	39.8	40.6	41.2	42.4	45.2	78.0	276.7	335.6	508.9	619.5
80°	26.5	26.1	27.7	28.4	29.6	31.4	41.6	93.9	114.0	185.2	197.0
82.5°	14.3	13.5	16.9	16.3	16.9	18.3	24.5	34.4	38.6	55.9	47.3
85°	4.4	4.4	4.6	5.4	6.6	6.4	10.7	16.9	18.7	23.9	17.7
87.5°	0.8	0.8	0.8	0.8	0.8	1.0	2.2	3.4	4.6	8.2	6.2
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°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4	292.4
2.5°	296.4	294.6	295.6	296.2	296.0	295.6	293.6	293.2	292.2	290.5	290.1
5°	305.2	303.2	303.4	302.8	300.8	298.2	293.8	291.6	289.7	287.7	287.5
7.5°	319.1	316.9	316.3	313.5	307.8	301.8	294.8	290.7	287.7	285.1	284.7
10°	336.8	334.6	332.6	325.9	316.7	308.6	299.4	293.6	289.1	285.9	285.3
12.5°	356.5	354.7	349.7	340.0	328.9	319.5	310.0	302.8	296.4	291.6	290.9
15°	378.4	374.4	366.8	354.3	343.8	336.2	324.7	314.9	304.6	298.2	296.8
17.5°	393.7	390.3	381.2	369.2	360.9	354.3	340.8	326.7	312.9	303.4	301.4
20°	404.6	400.9	390.7	381.8	379.2	373.6	357.9	341.6	325.5	313.9	311.3
22.5°	412.4	408.6	398.1	393.7	397.3	396.3	381.0	362.5	343.4	329.6	326.3
25°	419.8	416.2	407.0	408.6	418.2	421.2	404.8	383.2	361.5	345.2	341.4
27.5°	426.9	422.2	418.0	426.9	440.5	446.2	428.7	404.4	380.8	364.1	361.1
30°	437.7	432.3	431.7	444.6	466.3	471.1	451.8	427.5	404.1	387.3	383.4
32.5°	451.4	446.4	446.8	466.1	491.2	495.2	478.7	456.0	432.7	415.8	410.6
35°	469.9	463.7	467.1	490.8	516.1	523.6	510.3	491.4	468.7	451.4	445.6
37.5°	495.4	486.4	493.4	518.4	543.9	555.0	544.7	530.6	508.1	490.6	485.2
40°	528.0	520.6	523.4	550.9	577.3	590.5	584.1	570.2	547.9	529.6	523.4
42.5°	566.6	559.2	558.2	587.5	613.9	634.0	627.7	615.1	591.9	571.0	565.0
45°	604.4	597.6	599.0	628.9	658.5	680.4	674.2	659.3	634.2	610.0	605.2
47.5°	643.8	638.2	639.4	671.2	703.7	725.7	717.8	699.7	670.4	644.6	638.8
50°	684.2	677.8	679.6	713.0	748.2	768.9	756.8	730.1	697.7	672.6	667.6
52.5°	724.5	716.8	721.4	753.0	789.4	805.9	783.6	751.2	719.8	694.9	689.3
55°	770.7	762.7	757.6	791.4	827.4	834.2	803.7	765.9	728.7	700.3	696.9
57.5°	812.9	806.1	796.6	830.4	857.0	851.9	819.2	761.9	707.2	670.8	665.9
60°	850.7	844.9	836.7	865.4	877.5	866.2	806.7	714.2	654.1	616.1	613.9
62.5°	885.5	879.3	871.6	896.2	894.6	868.4	750.0	641.0	560.6	519.8	516.1
65°	913.1	907.4	905.2	924.5	921.9	825.2	661.7	521.2	409.6	363.5	362.1
67.5°	920.9	918.7	930.6	963.3	922.5	738.3	519.0	345.6	220.0	176.3	173.7
70°	891.5	891.3	925.3	972.2	838.9	564.0	306.2	155.8	110.6	98.1	96.5
72.5°	853.3	852.7	879.7	838.7	622.1	308.6	128.9	83.4	69.2	65.7	65.7
75°	790.6	789.0	809.3	638.0	349.9	116.2	68.4	57.3	54.3	53.7	53.7
77.5°	644.4	631.0	599.0	394.3	122.0	57.1	45.2	45.0	43.2	43.0	43.0
80°	211.9	211.9	246.3	150.4	53.9	35.2	32.0	33.6	31.8	30.6	30.4
82.5°	34.6	47.7	67.8	43.0	29.2	21.9	19.7	20.9	21.9	17.5	17.5
85°	13.7	17.9	26.1	20.1	13.5	8.8	9.5	10.5	9.2	8.0	7.8
87.5°	5.2	6.4	9.2	4.8	2.8	1.6	1.0	1.0	0.8	0.8	0.8
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)