

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: P628809

Luminaire Tested: GWS-SA1A-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2799.7 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B1 - U0 - G1

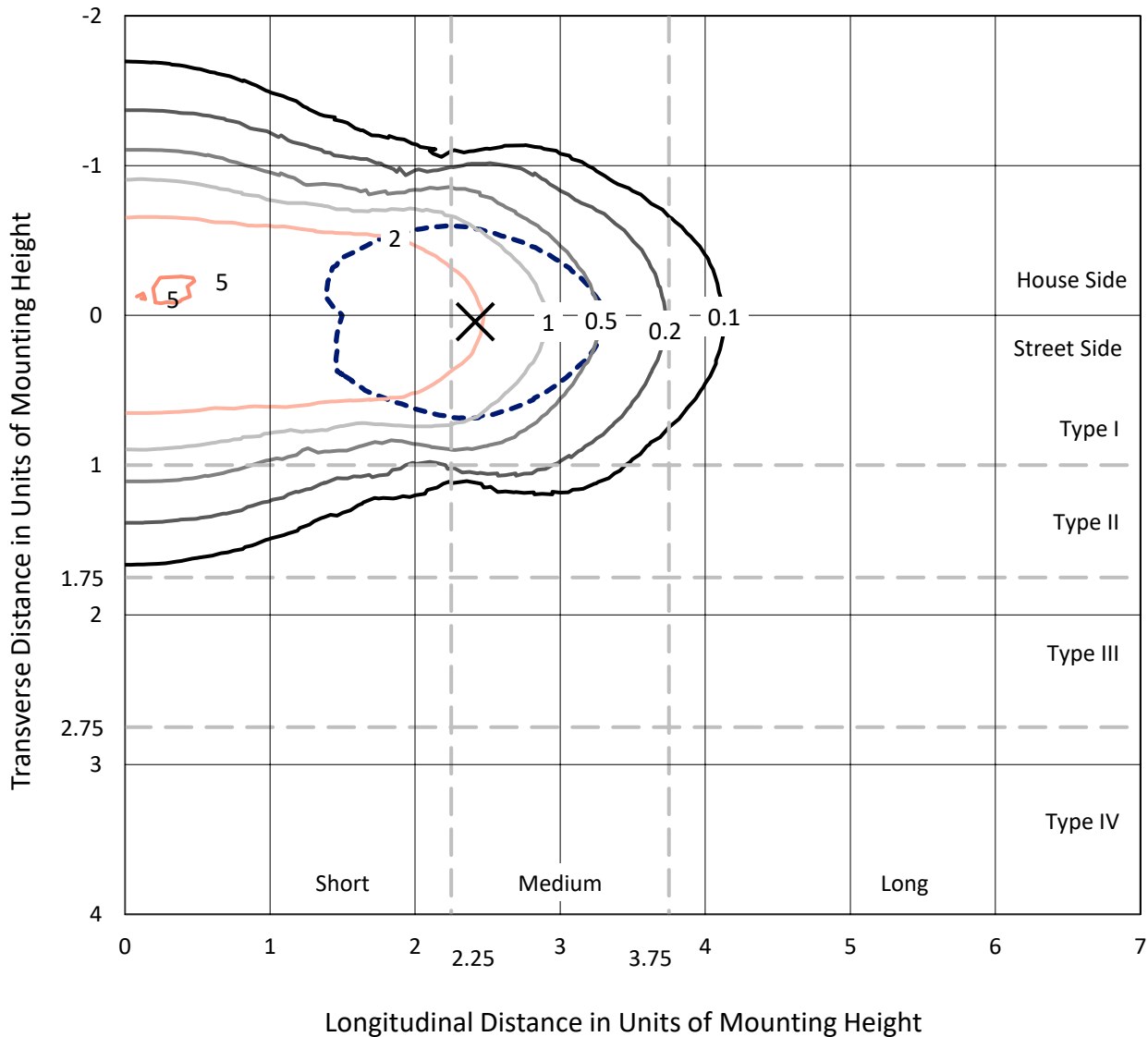
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

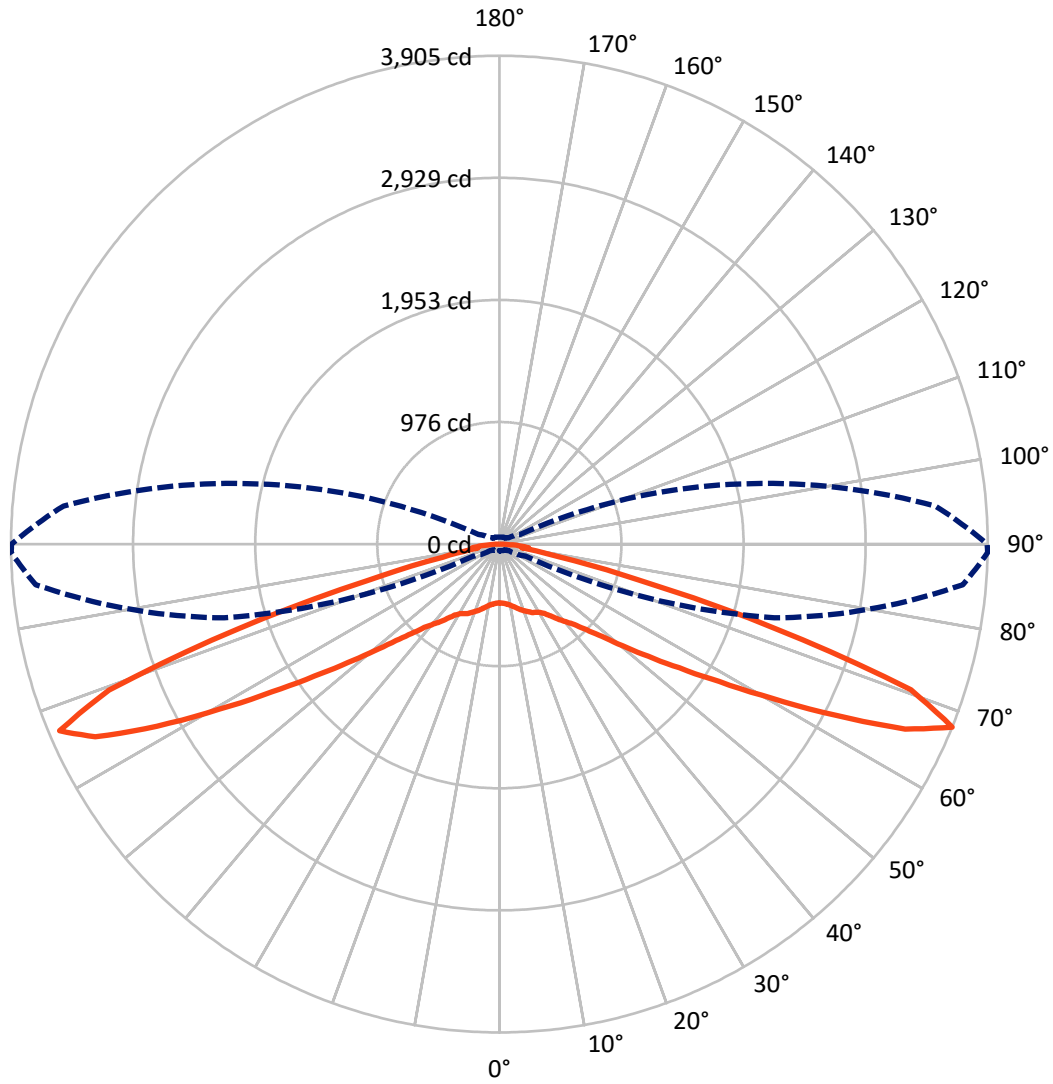
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.6	0.0	1387.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	1412.1	0.0	1412.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	2799.7	0.0	2799.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.7
10°-20°	153.5	5.5
20°-30°	259.4	9.3
30°-40°	356.1	12.7
40°-50°	454.1	16.2
50°-60°	569.7	20.3
60°-70°	687.1	24.5
70°-80°	248.6	8.9
80°-90°	24.2	0.9
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°	2799.7	100.0
0°-180°	2799.7	100.0

Coefficient of Utilization



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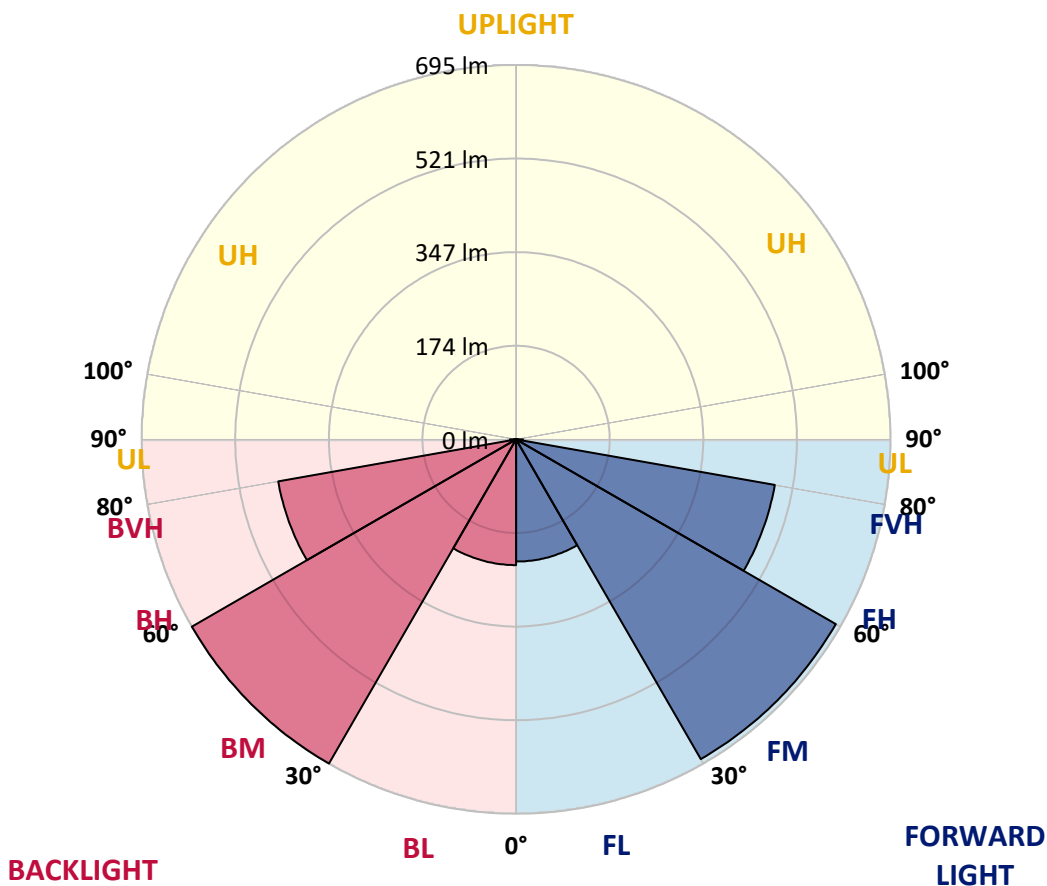
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.8	8.1			
FM (30°-60°)	685.1	24.5			
FH (60°-80°)	487.5	17.4			G0/660
FVH (80°-90°)	12.8	0.5			G1/100
BL (0°-30°)	233.3	8.3	B1/500		
BM (30°-60°)	694.7	24.8	B1/1000		
BH (60°-80°)	448.2	16.0	B1/500		G1/500
BVH (80°-90°)	11.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9
2.5°	471.3	470.9	469.9	472.9	472.3	472.5	473.7	472.9	471.5	469.1	472.5
5°	484.6	484.4	482.2	484.0	482.0	480.6	480.4	478.4	476.7	474.1	477.7
7.5°	497.5	497.3	495.4	498.7	497.1	495.4	493.6	489.6	485.8	482.0	486.0
10°	507.3	507.1	506.7	511.3	511.7	512.3	511.5	504.7	498.1	493.4	497.5
12.5°	512.9	513.5	514.5	523.0	527.2	531.2	532.2	526.6	515.6	508.9	513.7
15°	509.1	510.3	515.3	530.6	542.3	551.3	555.2	550.5	536.3	525.2	530.6
17.5°	490.8	491.8	501.7	525.0	550.7	571.6	577.9	575.1	559.2	545.7	550.9
20°	465.5	467.7	478.4	510.9	549.3	585.7	602.4	601.4	584.1	563.4	569.6
22.5°	442.6	445.2	456.4	492.4	539.9	589.3	627.1	629.8	606.8	581.1	586.1
25°	416.8	419.2	433.7	470.5	523.6	586.5	648.3	660.1	632.6	601.4	606.0
27.5°	390.5	392.3	406.6	445.8	502.3	581.3	664.9	693.5	657.9	615.5	618.7
30°	367.4	369.8	382.8	421.0	479.0	570.8	678.6	729.1	687.1	631.4	634.0
32.5°	345.0	347.1	361.3	396.7	454.2	554.8	690.9	770.9	730.3	660.9	660.9
35°	316.9	320.5	336.6	373.4	430.9	533.4	699.7	819.6	789.4	704.6	704.8
37.5°	291.0	293.0	309.9	347.1	406.4	509.3	700.5	870.0	864.2	760.1	760.5
40°	261.4	264.0	282.1	318.9	378.2	484.0	692.9	917.1	942.6	817.2	814.9
42.5°	231.4	235.3	252.5	288.5	347.9	453.0	672.6	961.9	1042.2	883.3	877.9
45°	202.5	204.9	222.2	256.2	313.1	416.0	640.0	1005.0	1160.4	983.8	976.0
47.5°	169.9	170.9	188.8	221.4	277.1	374.8	593.4	1043.4	1290.3	1117.0	1103.5
50°	141.0	142.4	156.4	184.4	233.0	325.9	535.3	1065.9	1455.8	1298.5	1275.2
52.5°	114.0	115.4	126.7	149.0	192.6	270.2	463.3	1060.7	1623.7	1523.9	1489.9
55°	92.1	93.1	100.7	118.2	151.6	214.9	378.2	1013.8	1810.1	1818.3	1745.1
57.5°	77.8	78.2	83.4	94.1	118.4	165.7	292.0	903.2	2005.5	2193.9	2073.7
60°	69.6	69.8	72.2	78.8	93.5	126.5	213.9	727.1	2208.0	2663.8	2498.9
62.5°	64.3	64.3	66.4	70.2	77.6	97.3	157.2	522.2	2353.4	3175.1	3011.3
65°	59.3	59.3	60.7	63.9	68.0	79.4	118.0	336.8	2424.7	3602.6	3566.2
67.5°	52.9	53.1	54.1	57.5	61.1	66.4	89.5	227.8	2276.5	3720.9	3905.0
70°	46.8	47.1	48.5	50.7	53.7	57.3	70.0	157.0	1657.0	3098.9	3491.6
72.5°	40.2	41.0	42.0	44.4	46.2	48.9	57.1	101.7	964.1	1993.4	2308.1
75°	33.0	34.0	35.2	37.6	38.8	39.8	47.1	72.6	463.9	1010.2	1150.3
77.5°	25.5	26.5	27.9	30.2	31.0	32.2	36.0	52.5	222.2	447.8	482.8
80°	17.1	17.5	18.7	21.3	22.7	23.5	26.5	35.8	96.5	179.8	178.2
82.5°	10.5	10.7	11.1	12.7	13.3	14.1	17.3	21.9	46.0	204.3	234.2
85°	3.8	3.6	3.4	4.4	5.2	6.0	8.0	11.1	20.1	140.3	157.0
87.5°	0.0	0.0	0.0	0.2	0.4	0.4	0.8	1.6	4.8	52.5	36.0
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°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9
2.5°	471.5	469.3	472.1	474.1	478.6	480.2	480.6	479.2	479.2	476.7	477.1
5°	476.9	475.5	480.2	483.6	490.0	492.4	494.0	493.0	493.6	492.0	492.4
7.5°	485.2	484.0	492.0	498.7	505.3	508.1	509.5	508.7	508.9	506.9	507.5
10°	496.6	497.1	506.7	515.3	524.2	527.0	527.6	525.2	523.2	519.6	519.8
12.5°	512.3	514.3	528.0	537.7	546.7	550.7	546.3	537.5	529.2	523.0	522.2
15°	529.4	533.0	552.7	565.0	574.9	572.9	559.8	539.9	523.6	514.3	512.5
17.5°	549.9	555.4	580.1	594.8	603.2	590.3	563.0	533.2	510.5	498.1	495.6
20°	569.2	577.9	609.0	628.2	629.2	600.2	561.6	519.8	491.2	475.9	472.7
22.5°	586.9	598.0	639.4	663.7	650.7	604.6	553.0	500.7	467.9	450.0	447.2
25°	606.2	621.9	674.8	697.5	672.2	602.8	534.9	476.9	439.7	421.4	419.4
27.5°	619.5	639.2	710.4	732.1	689.9	592.6	511.5	451.0	414.0	396.7	393.9
30°	634.8	659.9	749.6	769.7	700.7	577.5	486.6	426.9	390.1	371.4	369.4
32.5°	662.5	694.1	798.3	809.5	704.2	558.8	462.7	403.6	365.1	346.4	343.6
35°	707.2	744.2	866.6	854.0	701.5	538.3	439.9	376.2	339.6	322.1	319.3
37.5°	763.5	809.5	942.8	894.0	694.3	515.8	413.0	353.3	316.7	299.0	297.4
40°	816.0	872.7	1028.3	928.6	679.6	488.0	387.1	329.4	292.0	273.3	269.6
42.5°	881.7	957.1	1127.2	958.5	655.5	454.8	357.9	299.8	261.0	244.1	239.7
45°	981.6	1075.3	1242.2	987.3	619.5	414.0	321.3	263.8	227.0	209.7	206.3
47.5°	1106.3	1223.1	1366.9	1004.4	564.8	371.0	279.9	225.8	189.0	169.5	167.9
50°	1281.4	1438.1	1500.6	1001.3	503.7	319.9	233.2	180.6	149.8	135.7	133.5
52.5°	1494.8	1707.9	1645.2	965.1	438.7	261.8	181.8	141.8	118.8	108.8	107.0
55°	1762.4	2031.0	1797.4	887.5	356.7	200.5	142.8	111.8	96.1	90.1	89.3
57.5°	2093.8	2449.5	1944.0	756.8	268.2	153.0	110.0	92.3	84.9	81.2	81.0
60°	2531.1	2893.6	2071.3	588.1	192.0	117.0	90.9	82.4	76.6	74.2	74.0
62.5°	3051.1	3297.0	2150.5	400.5	144.4	93.3	80.0	74.8	71.4	70.0	69.8
65°	3585.5	3552.0	2112.7	262.4	109.6	79.2	71.8	69.0	66.0	64.5	64.5
67.5°	3901.2	3498.1	1822.5	182.2	86.9	69.6	64.7	62.1	57.1	55.9	55.9
70°	3455.4	2834.5	1194.6	133.3	70.4	60.9	56.3	52.7	50.7	49.5	49.3
72.5°	2285.4	1844.4	635.2	92.5	58.7	51.9	47.7	46.2	43.8	42.6	42.4
75°	1137.5	968.8	325.5	66.8	48.9	41.6	39.8	39.2	37.2	35.6	35.2
77.5°	474.1	431.3	151.8	48.5	37.2	33.6	32.0	32.0	29.8	27.9	27.1
80°	178.8	159.2	71.8	33.2	27.5	24.9	23.9	23.1	21.3	19.1	17.9
82.5°	239.1	156.2	35.2	20.7	18.1	16.1	14.7	14.1	13.1	12.1	11.3
85°	154.8	111.0	15.9	10.7	9.0	6.8	6.0	5.6	5.0	4.4	4.0
87.5°	31.6	37.2	4.8	2.0	1.2	0.6	0.6	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)