

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: P628845

Luminaire Tested: GWS-SA1A-740-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628845  
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-740-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

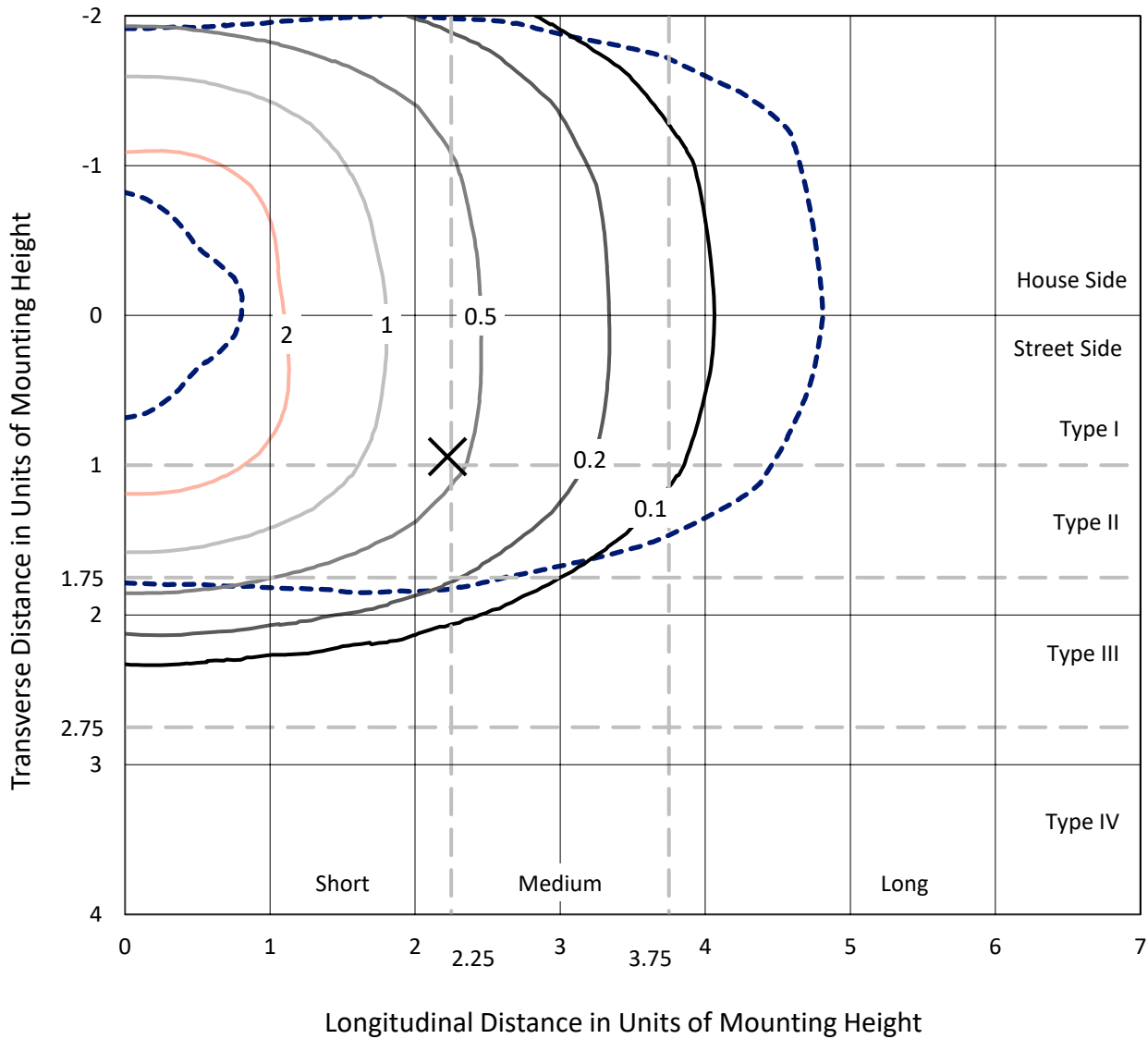
Lumens per Lamp: N/A  
Luminaire Lumens: 2927.4 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

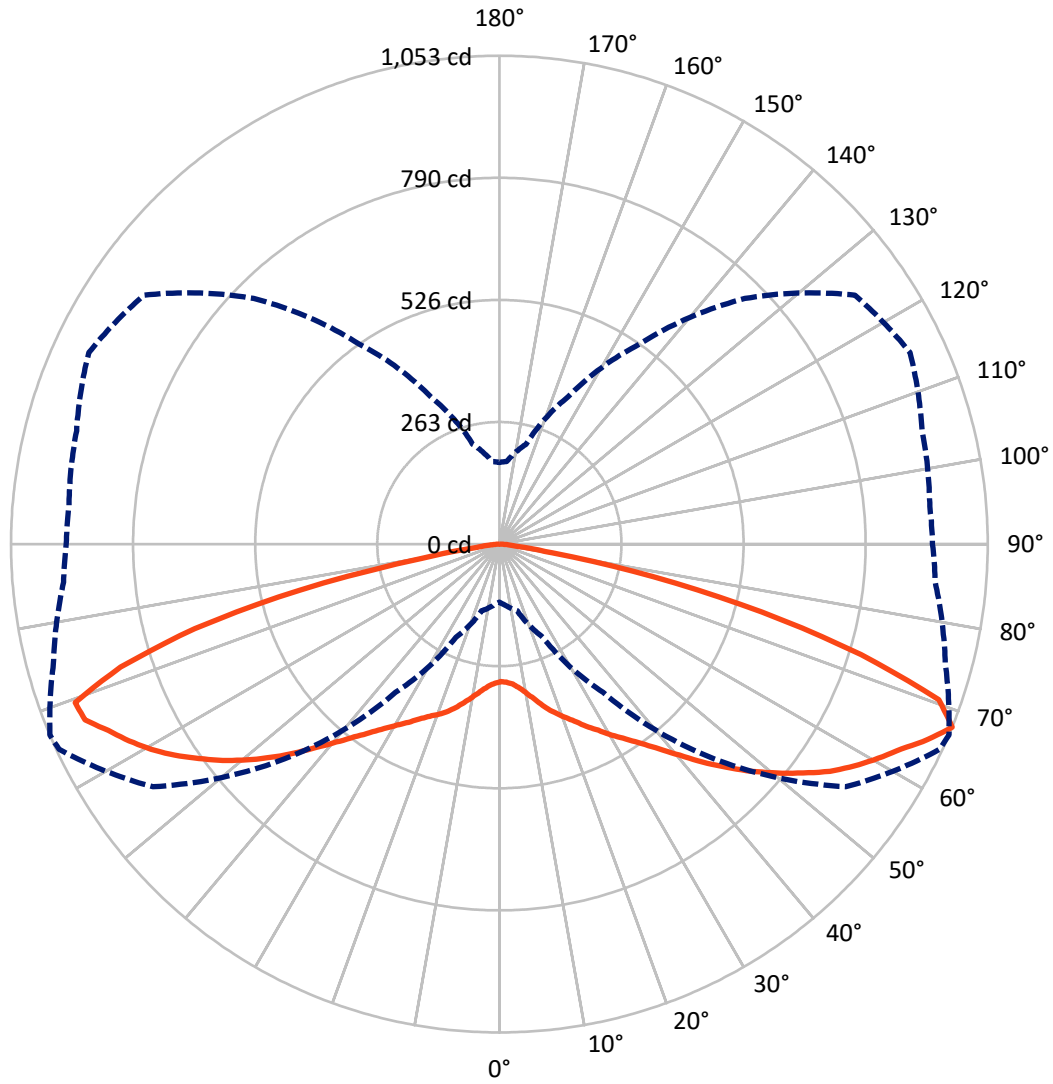
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1447.5	0.0	1447.5
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	1479.9	0.0	1479.9
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	2927.4	0.0	2927.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.1	1.0
10°-20°	98.3	3.4
20°-30°	192.8	6.6
30°-40°	328.4	11.2
40°-50°	527.4	18.0
50°-60°	716.6	24.5
60°-70°	685.5	23.4
70°-80°	325.9	11.1
80°-90°	23.6	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°	2927.4	100.0
0°-180°	2927.4	100.0

**Coefficient of Utilization**



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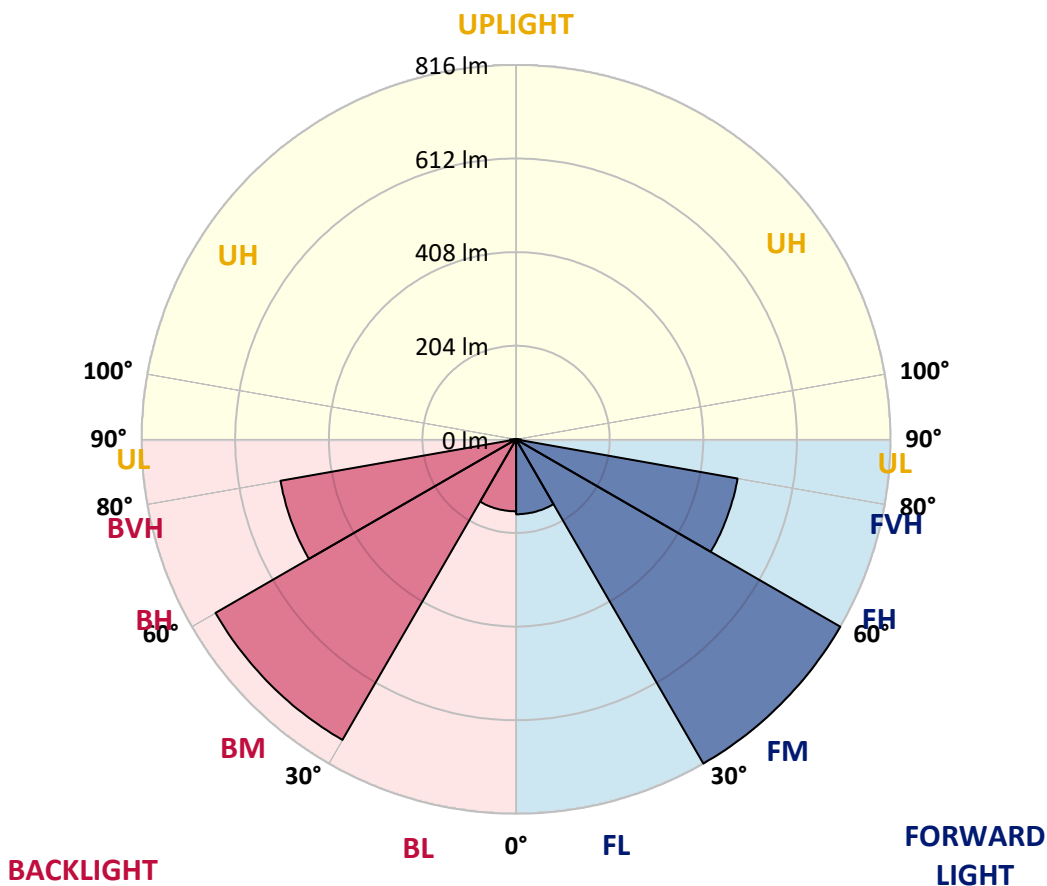
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.2	5.6			
FM (30°-60°)	815.9	27.9			
FH (60°-80°)	490.1	16.7			G0/660
FVH (80°-90°)	10.6	0.4			G1/100
BL (0°-30°)	156.9	5.4	B1/500		
BM (30°-60°)	756.5	25.8	B1/1000		
BH (60°-80°)	521.2	17.8	B2/1000		G2/1000
BVH (80°-90°)	13.0	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°	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4
2.5°	290.3	290.7	291.3	292.5	293.8	295.6	297.4	297.2	298.0	298.7	299.3
5°	288.7	289.1	290.1	291.7	293.6	296.6	300.5	302.1	303.3	305.6	307.6
7.5°	292.1	292.9	294.4	296.6	299.5	303.3	308.6	311.5	313.3	317.4	320.9
10°	296.8	297.8	300.7	305.0	309.3	315.2	321.9	326.2	327.4	332.7	339.2
12.5°	301.3	302.5	307.2	315.0	322.7	330.7	338.6	343.9	344.3	351.5	358.8
15°	308.4	309.5	315.8	325.8	337.6	348.6	358.4	362.1	363.7	368.8	378.0
17.5°	324.1	325.4	333.5	344.3	356.8	368.4	378.2	381.2	381.2	385.5	393.0
20°	341.1	342.3	353.1	367.0	382.0	393.9	401.4	398.6	397.5	398.8	404.1
22.5°	360.0	362.3	372.7	388.8	407.3	421.8	425.7	417.1	414.2	411.4	412.6
25°	384.3	386.9	397.1	414.2	432.4	447.7	449.9	436.7	435.0	425.1	421.4
27.5°	412.2	414.2	426.9	443.8	460.7	473.6	476.0	459.7	454.2	440.3	431.8
30°	448.3	450.1	461.1	477.9	492.5	501.5	504.6	482.1	477.9	456.7	443.4
32.5°	487.6	488.5	499.7	515.8	528.8	537.4	533.1	507.0	500.7	476.8	458.7
35°	532.7	532.7	547.2	560.2	570.6	573.1	564.9	535.1	527.8	501.9	479.3
37.5°	576.9	578.2	591.6	607.1	616.3	615.9	601.0	568.4	560.0	531.9	506.8
40°	624.8	627.5	640.9	658.3	667.0	665.8	643.0	606.7	598.1	564.9	540.4
42.5°	668.9	673.2	688.9	706.6	716.2	715.4	691.5	650.7	642.4	604.9	580.4
45°	703.9	708.4	728.0	752.7	767.9	766.5	742.5	696.4	686.2	646.9	619.9
47.5°	734.7	739.4	761.2	787.3	811.6	814.0	792.0	742.5	731.7	691.9	661.5
50°	758.4	760.6	785.1	813.6	841.7	855.4	836.2	788.7	775.7	736.4	702.1
52.5°	756.5	759.6	789.8	828.5	866.2	888.6	875.4	832.4	819.7	776.9	743.5
55°	719.2	722.3	758.2	814.6	879.9	912.9	911.5	874.0	864.8	818.3	786.5
57.5°	664.8	671.5	707.2	768.2	861.9	932.3	938.0	911.9	902.3	858.9	829.1
60°	567.3	576.3	617.5	696.6	804.4	925.7	966.3	943.9	938.0	896.6	867.6
62.5°	412.2	418.7	473.6	577.3	719.2	879.3	990.2	976.9	972.4	930.4	902.5
65°	246.9	261.8	305.8	408.3	580.2	791.6	977.1	1020.1	1015.4	965.3	932.3
67.5°	125.0	131.7	149.0	221.4	390.2	655.0	911.7	1047.0	1052.7	995.1	942.9
70°	77.5	79.3	84.2	109.3	194.9	430.4	745.5	976.9	1004.8	990.4	915.3
72.5°	62.2	62.6	63.4	68.1	93.6	201.2	471.3	765.1	815.4	924.9	876.0
75°	51.6	51.8	52.0	53.4	58.3	82.2	229.3	525.8	584.7	786.1	812.2
77.5°	41.4	40.4	41.2	41.8	43.0	45.9	79.1	280.5	340.2	516.0	628.1
80°	26.9	26.5	28.1	28.7	30.0	31.8	42.2	95.2	115.6	187.8	199.8
82.5°	14.5	13.7	17.1	16.5	17.1	18.6	24.9	34.9	39.1	56.7	47.9
85°	4.5	4.5	4.7	5.5	6.7	6.5	10.8	17.1	19.0	24.3	17.9
87.5°	0.8	0.8	0.8	0.8	0.8	1.0	2.2	3.5	4.7	8.4	6.3
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°	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4
2.5°	300.5	298.7	299.7	300.3	300.1	299.7	297.6	297.2	296.2	294.6	294.2
5°	309.5	307.4	307.6	307.0	305.0	302.3	297.8	295.6	293.8	291.7	291.5
7.5°	323.5	321.3	320.7	317.8	312.1	306.0	298.9	294.8	291.7	289.1	288.7
10°	341.5	339.2	337.2	330.5	321.1	312.9	303.6	297.6	293.2	289.9	289.3
12.5°	361.4	359.6	354.5	344.7	333.5	323.9	314.4	307.0	300.5	295.6	295.0
15°	383.7	379.6	371.8	359.2	348.6	340.9	329.2	319.2	308.9	302.3	300.9
17.5°	399.2	395.7	386.5	374.3	365.9	359.2	345.5	331.3	317.2	307.6	305.6
20°	410.2	406.5	396.1	387.1	384.5	378.8	362.9	346.4	330.1	318.2	315.6
22.5°	418.1	414.2	403.6	399.2	402.8	401.8	386.3	367.6	348.2	334.1	330.9
25°	425.7	422.0	412.6	414.2	424.0	427.1	410.4	388.6	366.5	350.0	346.2
27.5°	432.8	428.1	423.8	432.8	446.7	452.4	434.6	410.0	386.1	369.2	366.1
30°	443.8	438.3	437.7	450.7	472.8	477.6	458.1	433.4	409.8	392.6	388.8
32.5°	457.7	452.6	453.0	472.6	498.0	502.1	485.4	462.4	438.7	421.6	416.3
35°	476.4	470.1	473.6	497.6	523.3	530.9	517.4	498.2	475.2	457.7	451.8
37.5°	502.3	493.1	500.3	525.6	551.4	562.7	552.3	538.0	515.2	497.4	491.9
40°	535.3	527.8	530.7	558.6	585.3	598.7	592.2	578.2	555.5	537.0	530.7
42.5°	574.5	566.9	565.9	595.7	622.4	642.8	636.5	623.6	600.2	579.0	572.9
45°	612.8	605.9	607.3	637.7	667.6	689.9	683.5	668.5	643.0	618.5	613.6
47.5°	652.8	647.1	648.3	680.5	713.5	735.7	727.8	709.4	679.7	653.6	647.7
50°	693.7	687.2	689.1	722.9	758.6	779.6	767.3	740.2	707.4	681.9	676.8
52.5°	734.5	726.8	731.5	763.5	800.4	817.1	794.5	761.6	729.8	704.5	698.8
55°	781.4	773.2	768.2	802.4	838.9	845.8	814.8	776.5	738.8	710.1	706.6
57.5°	824.2	817.3	807.7	842.0	868.9	863.8	830.5	772.4	717.0	680.1	675.2
60°	862.5	856.6	848.3	877.4	889.7	878.2	817.9	724.1	663.2	624.6	622.4
62.5°	897.8	891.5	883.7	908.6	907.0	880.5	760.4	649.9	568.4	527.0	523.3
65°	925.7	920.0	917.8	937.4	934.7	836.7	670.9	528.4	415.3	368.6	367.2
67.5°	933.7	931.4	943.5	976.7	935.3	748.6	526.2	350.4	223.0	178.8	176.1
70°	903.9	903.7	938.2	985.7	850.5	571.8	310.5	158.0	112.1	99.5	97.9
72.5°	865.2	864.6	891.9	850.3	630.7	312.9	130.7	84.6	70.1	66.7	66.7
75°	801.6	800.0	820.5	646.9	354.7	117.8	69.3	58.1	55.0	54.4	54.4
77.5°	653.4	639.7	607.3	399.8	123.7	57.9	45.9	45.7	43.8	43.6	43.6
80°	214.9	214.9	249.7	152.5	54.6	35.7	32.4	34.0	32.2	31.0	30.8
82.5°	35.1	48.3	68.7	43.6	29.6	22.2	20.0	21.2	22.2	17.7	17.7
85°	13.9	18.1	26.5	20.4	13.7	9.0	9.6	10.6	9.4	8.2	8.0
87.5°	5.3	6.5	9.4	4.9	2.9	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)