

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: P629062

Luminaire Tested: GWS-SA1A-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2300.4 lumens
Efficiency: N/A
Efficacy: 116.8 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

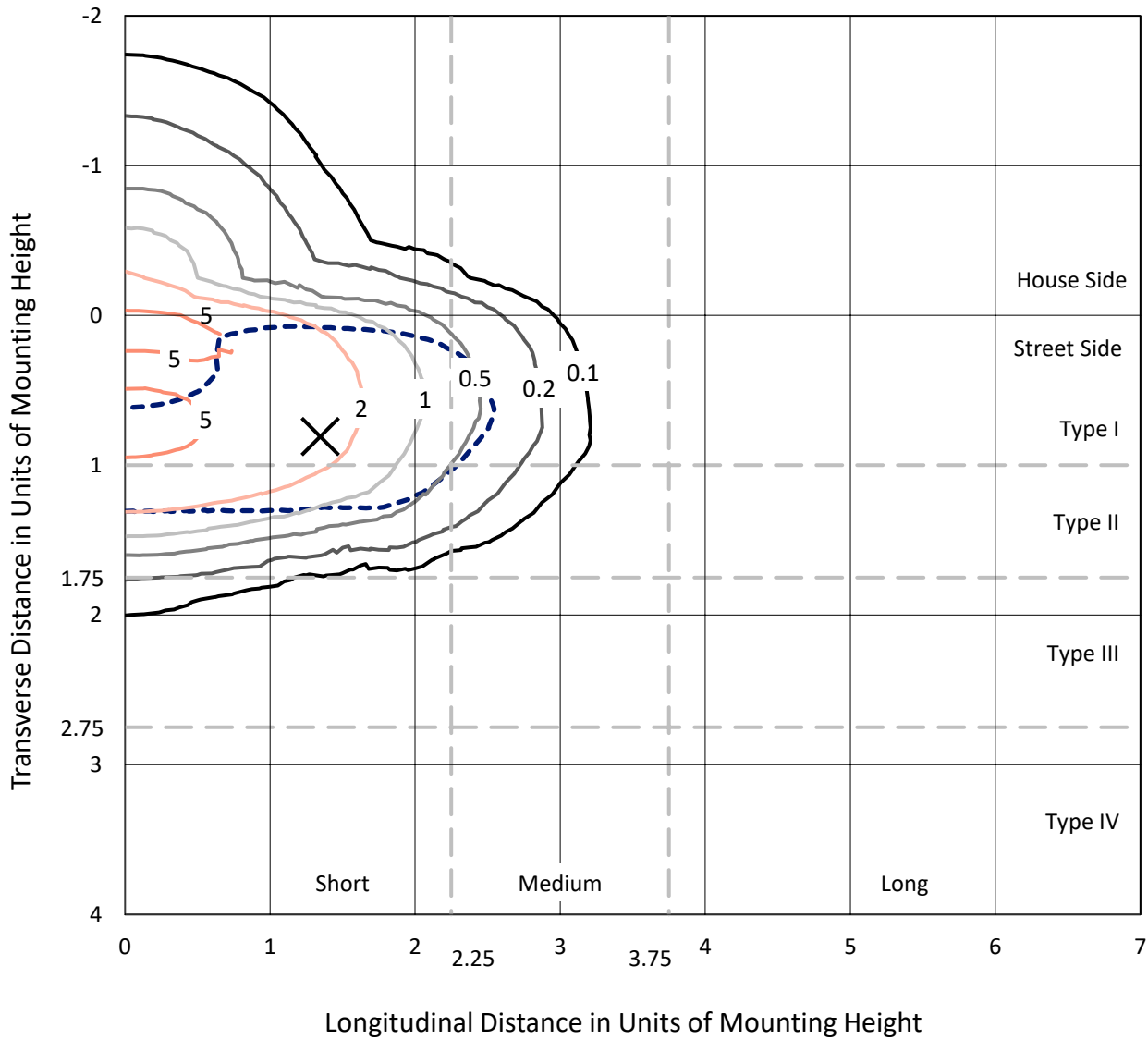
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

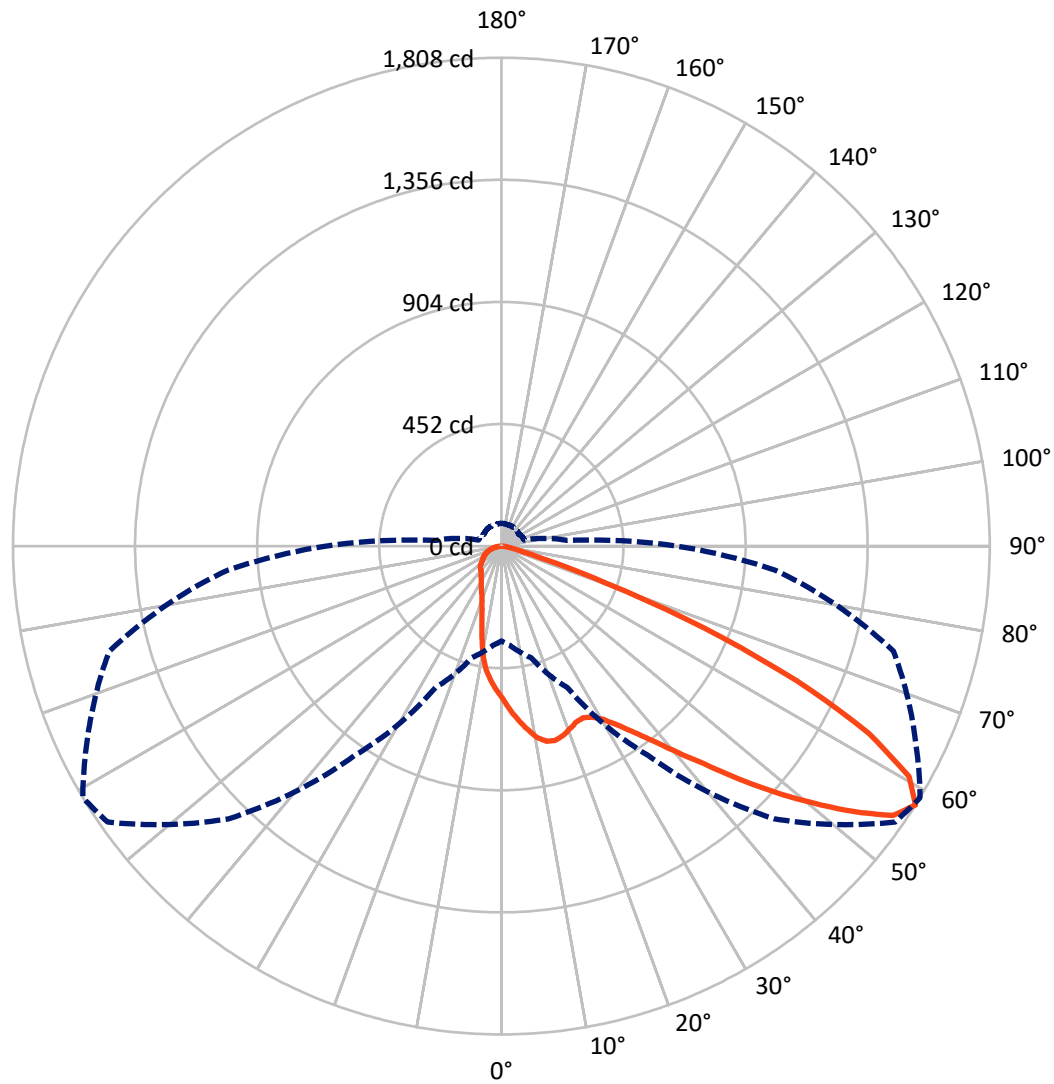
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.0	0.0	357.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	1943.4	0.0	1943.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	2300.4	0.0	2300.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	2.3
10°-20°	132.9	5.8
20°-30°	215.4	9.4
30°-40°	346.5	15.1
40°-50°	538.0	23.4
50°-60°	579.5	25.2
60°-70°	336.3	14.6
70°-80°	87.8	3.8
80°-90°	11.6	0.5
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°	2300.4	100.0
0°-180°	2300.4	100.0

Coefficient of Utilization



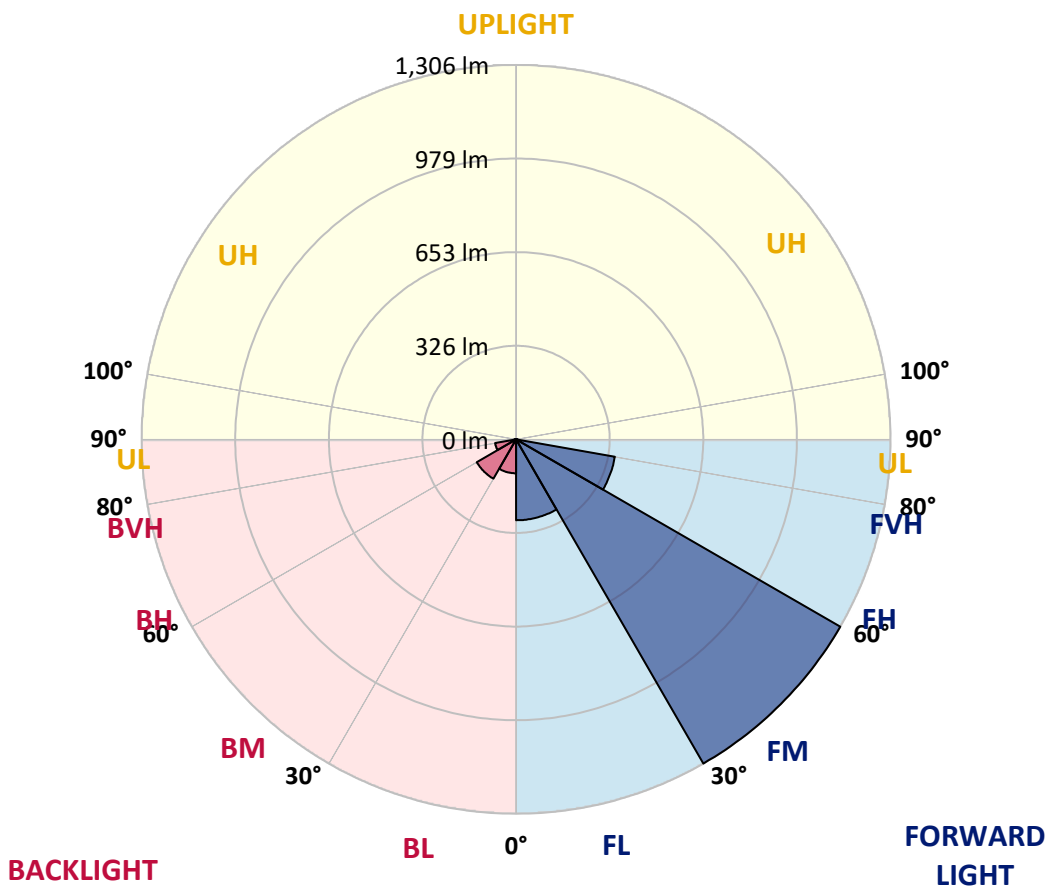
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.2	12.3			
FM (30°-60°)	1305.7	56.8			
FH (60°-80°)	349.9	15.2			G0/660
FVH (80°-90°)	5.5	0.2			G0/10
BL (0°-30°)	118.4	5.1	B1/500		
BM (30°-60°)	158.3	6.9	B0/220		
BH (60°-80°)	74.3	3.2	B0/110		G0/110
BVH (80°-90°)	6.0	0.3			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°	55°	59°	65°	75°	85°
0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	640.5	635.1	638.9	632.2	629.5	622.2	612.8	606.5	596.8	584.1	573.1
5°	704.1	700.4	701.2	694.1	687.8	675.6	656.4	645.7	629.2	603.7	580.1
7.5°	702.2	706.6	709.0	715.1	716.9	715.8	698.5	683.6	665.4	627.2	591.6
10°	629.5	637.7	645.2	666.2	691.8	724.2	728.3	719.4	701.1	657.2	605.4
12.5°	550.3	556.6	563.2	588.5	627.7	692.5	736.4	741.9	734.6	686.8	620.9
15°	511.4	514.3	520.7	537.3	568.6	640.5	722.3	746.4	759.5	718.2	638.4
17.5°	509.8	511.1	514.2	523.1	544.8	600.3	696.8	737.3	779.1	751.4	658.8
20°	543.3	539.9	538.0	537.8	548.5	586.9	672.2	722.8	788.3	785.4	680.7
22.5°	589.8	590.9	586.7	576.4	575.1	596.4	659.9	708.0	791.1	815.6	700.9
25°	655.7	661.4	648.9	629.2	619.4	624.1	667.5	703.5	790.8	840.7	713.5
27.5°	732.6	737.0	724.4	698.5	678.4	667.1	690.2	716.9	793.5	862.4	721.1
30°	820.3	821.7	804.4	777.2	747.9	723.6	727.9	744.6	807.6	890.9	730.0
32.5°	927.3	933.5	907.2	864.1	823.2	792.1	778.6	789.3	838.1	924.5	743.8
35°	1063.2	1065.3	1031.9	970.2	912.2	869.2	841.0	846.6	884.4	971.7	764.5
37.5°	1191.3	1193.4	1157.9	1100.6	1017.7	958.7	917.9	915.3	943.7	1038.2	798.4
40°	1272.6	1278.6	1262.7	1226.7	1147.5	1068.0	1012.6	1003.7	1021.4	1119.7	845.5
42.5°	1316.3	1318.9	1318.6	1323.3	1276.1	1197.1	1119.5	1101.7	1113.5	1207.6	893.1
45°	1316.6	1323.1	1340.4	1385.6	1387.7	1338.5	1254.6	1226.7	1215.9	1296.2	942.8
47.5°	1257.7	1264.6	1312.2	1401.1	1466.7	1477.9	1416.4	1360.5	1314.8	1372.5	983.7
50°	1079.2	1096.7	1187.4	1344.6	1482.3	1589.7	1570.7	1494.9	1402.8	1431.4	1009.2
52.5°	924.2	923.6	979.4	1185.0	1417.3	1638.9	1720.0	1633.2	1489.7	1468.8	1015.7
55°	676.8	680.5	737.7	906.2	1244.1	1591.3	1802.1	1760.5	1589.5	1488.8	1013.1
57.5°	350.9	369.4	428.0	578.3	945.3	1427.4	1780.3	1808.0	1690.9	1502.8	1016.5
60°	177.3	173.8	194.8	276.1	547.7	1114.8	1645.5	1733.8	1709.2	1513.9	1018.6
62.5°	118.4	117.4	111.6	127.9	223.8	660.2	1402.8	1526.5	1582.0	1488.0	991.8
65°	102.5	100.6	89.9	89.2	108.7	273.8	1028.2	1200.0	1307.5	1372.8	927.5
67.5°	92.3	89.4	78.5	73.2	78.1	120.3	579.4	804.9	965.5	1161.0	786.6
70°	82.4	81.0	70.1	62.3	61.9	73.4	213.4	415.4	590.8	792.1	575.1
72.5°	73.8	71.3	62.0	54.6	50.9	52.0	92.6	160.0	305.8	494.1	344.0
75°	64.0	62.0	53.9	46.5	41.9	38.1	56.5	74.0	139.4	234.8	162.4
77.5°	49.4	48.1	42.6	36.9	34.3	28.3	34.3	46.6	64.5	98.9	84.5
80°	28.7	29.5	31.7	28.8	25.3	20.2	22.3	26.9	38.7	53.6	47.9
82.5°	14.4	15.4	20.6	16.7	15.1	11.8	13.3	15.9	20.2	29.6	18.8
85°	1.1	1.1	3.7	4.2	5.2	4.2	5.3	6.5	9.2	11.8	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.5	2.8	1.8
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°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	565.7	557.4	547.5	539.4	527.0	520.3	511.9	501.5	497.3	495.4	494.3
5°	566.8	552.2	531.2	511.7	490.2	473.2	454.3	434.5	423.2	420.4	418.5
7.5°	571.0	550.6	517.1	485.0	445.0	407.9	371.8	336.0	317.7	310.8	310.1
10°	576.8	550.0	502.8	449.6	382.0	323.4	281.1	253.1	241.3	237.4	236.1
12.5°	584.1	549.5	484.1	400.3	309.3	253.9	229.8	225.3	226.9	226.6	226.6
15°	593.4	550.1	461.4	344.6	250.2	220.4	220.9	226.2	231.3	232.1	232.1
17.5°	603.4	549.5	428.5	288.7	214.7	212.5	219.9	227.4	231.9	232.6	232.6
20°	614.3	546.4	387.0	236.1	199.2	207.5	215.5	221.4	224.1	224.8	224.8
22.5°	620.7	537.7	342.0	199.8	189.3	199.5	204.9	210.9	211.2	206.0	205.8
25°	619.8	521.3	290.7	176.5	178.8	187.7	194.5	190.3	185.1	182.2	181.7
27.5°	613.6	496.7	238.4	158.9	166.3	176.4	174.3	170.7	169.4	166.2	165.8
30°	605.8	466.4	191.4	145.1	153.4	162.6	159.4	159.0	157.7	154.2	154.2
32.5°	598.4	435.1	156.0	134.9	145.1	145.8	150.3	150.6	150.0	143.8	143.2
35°	596.3	403.9	132.0	126.8	137.0	136.7	143.2	143.0	131.8	123.2	123.1
37.5°	602.6	372.1	117.7	120.2	125.8	130.0	135.2	125.8	122.1	116.9	116.6
40°	616.0	342.8	110.4	116.3	118.7	124.9	116.8	117.4	116.4	112.6	112.1
42.5°	633.9	317.9	106.4	115.0	114.7	116.3	107.4	110.0	111.4	108.5	108.0
45°	651.0	296.2	104.3	110.1	111.7	102.3	100.6	103.0	105.3	104.1	103.6
47.5°	663.7	277.4	103.2	103.5	108.0	97.7	94.7	95.9	98.6	99.1	98.9
50°	667.5	261.4	101.9	98.0	97.0	93.0	90.7	90.4	93.6	95.9	96.2
52.5°	660.1	247.1	98.5	93.1	88.4	89.1	88.3	86.6	89.9	93.0	93.3
55°	649.1	239.0	93.1	88.4	82.9	85.5	85.8	84.4	86.5	88.6	88.6
57.5°	649.9	243.7	87.9	84.0	78.1	81.5	83.2	82.6	82.6	84.2	84.4
60°	655.2	250.5	84.5	78.5	73.2	76.8	80.8	80.2	78.7	80.8	80.8
62.5°	639.8	241.5	82.3	73.2	68.0	72.2	77.1	76.8	75.1	78.5	78.9
65°	594.5	217.2	79.7	66.6	62.8	67.7	71.9	73.0	71.6	76.1	76.9
67.5°	498.3	182.7	74.7	60.2	57.7	62.2	66.2	67.9	66.7	72.1	72.7
70°	371.5	147.9	66.7	53.3	51.3	55.4	59.1	59.8	59.9	66.2	66.9
72.5°	236.9	115.0	56.2	45.5	44.0	47.1	49.9	52.5	53.6	59.6	59.4
75°	132.1	85.5	45.2	38.5	36.0	38.4	41.6	44.7	47.9	56.7	57.7
77.5°	76.1	60.1	35.8	30.9	27.9	30.4	33.2	37.6	47.3	54.9	53.9
80°	42.9	39.0	27.0	22.7	20.7	22.7	24.8	33.0	37.2	40.5	41.0
82.5°	20.1	21.9	18.5	13.9	13.9	15.2	17.2	25.6	28.2	23.0	20.1
85°	7.3	9.9	9.1	7.1	6.3	6.2	10.7	14.6	9.1	8.1	7.0
87.5°	1.9	2.8	2.6	1.8	1.0	0.8	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)