

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: P628677

Luminaire Tested: GWS-SA1A-727-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628677
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-727-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2421.8 lumens
Efficiency: N/A
Efficacy: 122.9 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

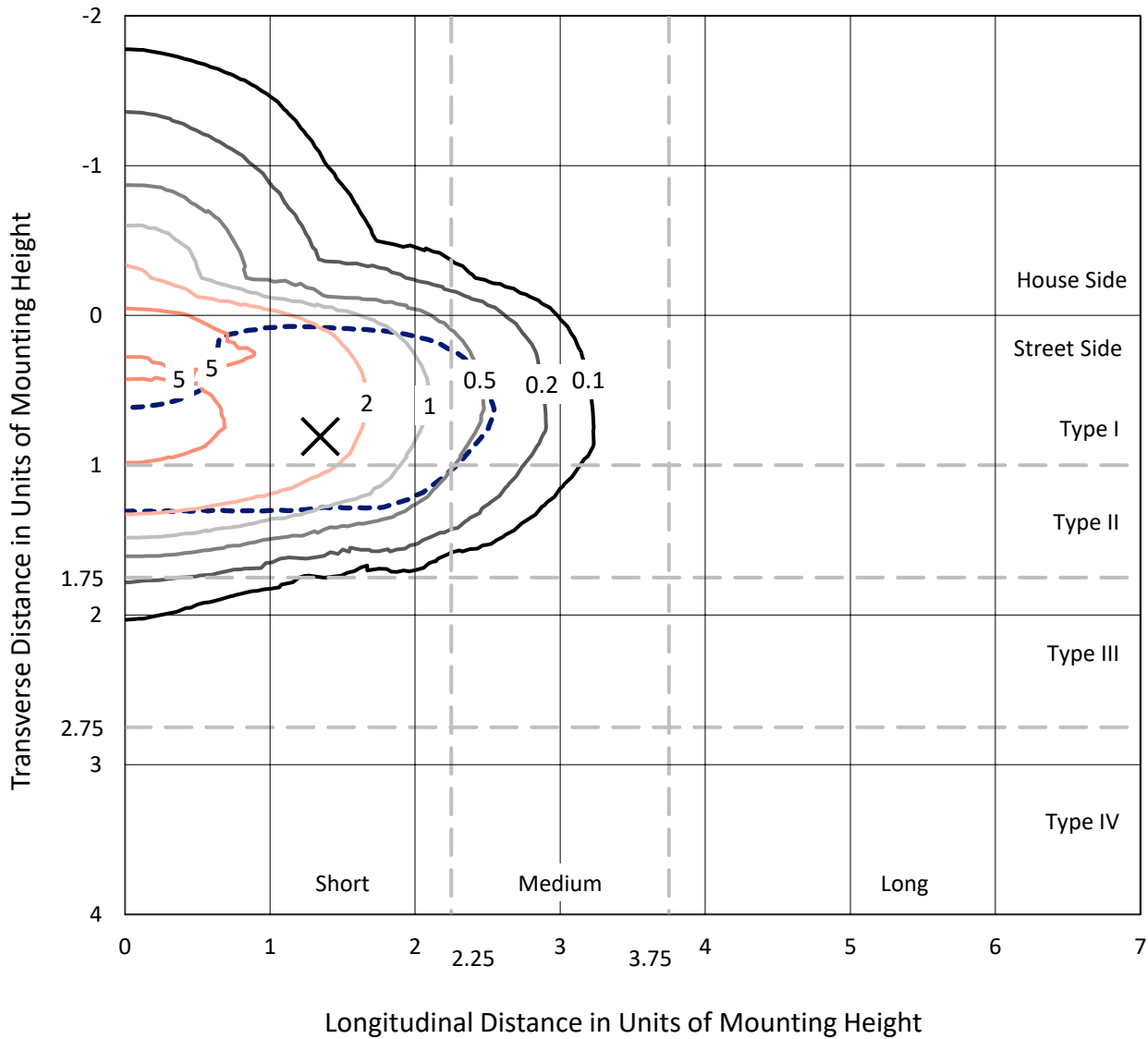


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Iso-Footcandle Lines of Horizontal Illumination

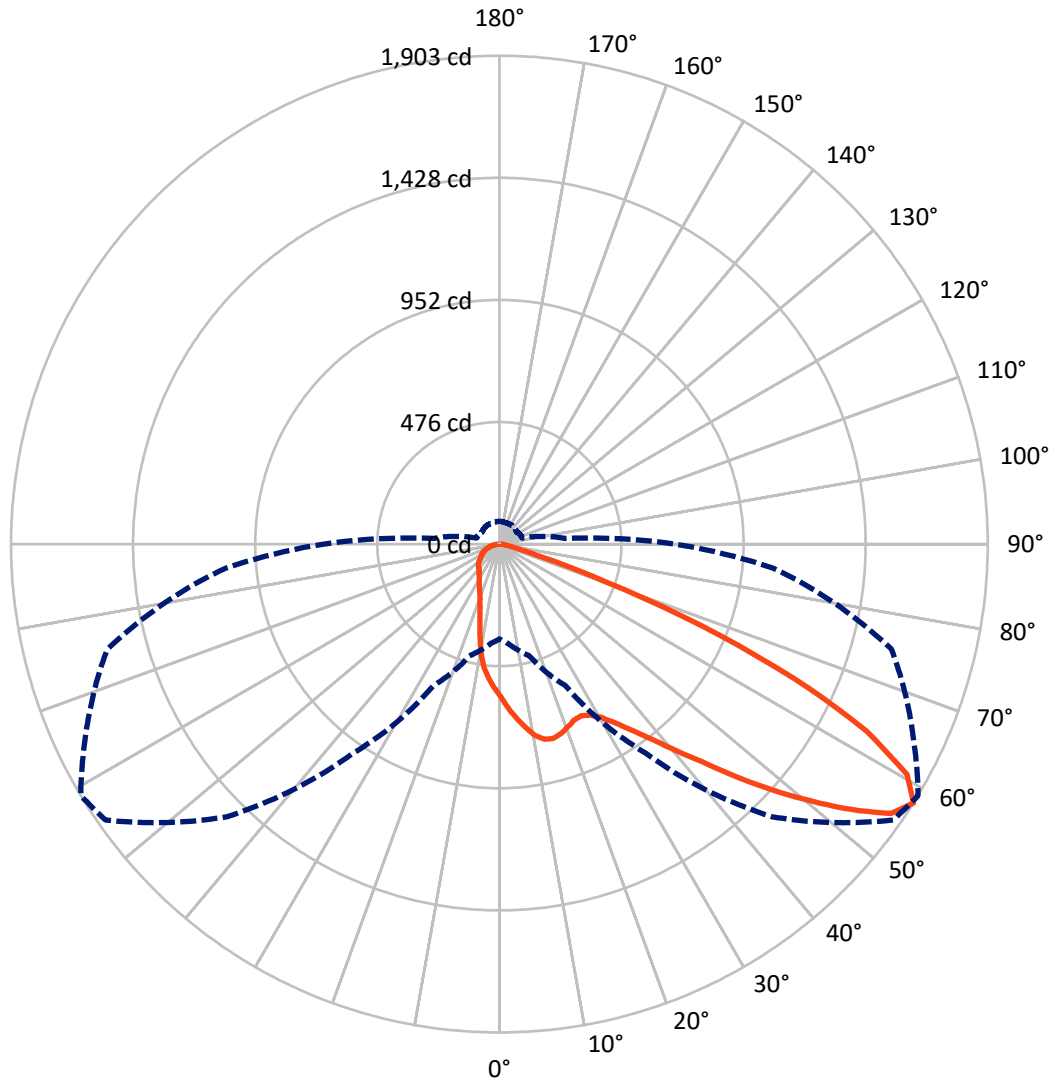
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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	375.9	0.0	375.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2045.9	0.0	2045.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	2421.8	0.0	2421.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	2.3
10°-20°	139.9	5.8
20°-30°	226.7	9.4
30°-40°	364.8	15.1
40°-50°	566.4	23.4
50°-60°	610.1	25.2
60°-70°	354.1	14.6
70°-80°	92.4	3.8
80°-90°	12.2	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°	2421.8	100.0
0°-180°	2421.8	100.0

Coefficient of Utilization



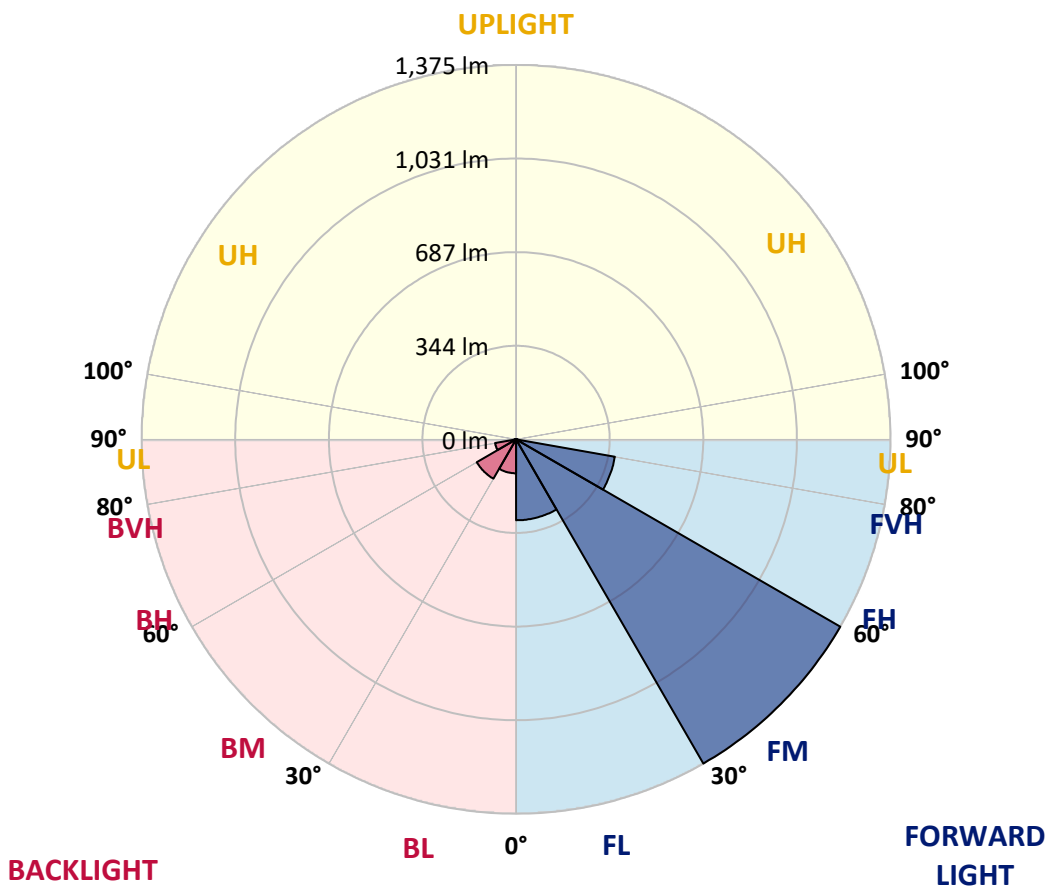
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.1	12.3			
FM (30°-60°)	1374.6	56.8			
FH (60°-80°)	368.3	15.2			G0/660
FVH (80°-90°)	5.8	0.2			G0/10
BL (0°-30°)	124.7	5.1	B1/500		
BM (30°-60°)	166.6	6.9	B0/220		
BH (60°-80°)	78.2	3.2	B0/110		G0/110
BVH (80°-90°)	6.3	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°	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5
2.5°	674.3	668.7	672.6	665.6	662.7	655.0	645.1	638.5	628.3	615.0	603.4
5°	741.3	737.4	738.2	730.7	724.1	711.3	691.0	679.7	662.4	635.6	610.7
7.5°	739.3	743.9	746.4	752.9	754.8	753.6	735.3	719.6	700.5	660.3	622.8
10°	662.7	671.4	679.2	701.4	728.3	762.4	766.7	757.3	738.1	691.9	637.3
12.5°	579.3	586.0	593.0	619.6	660.8	729.0	775.2	781.0	773.3	723.1	653.7
15°	538.4	541.5	548.1	565.7	598.6	674.3	760.4	785.8	799.6	756.1	672.1
17.5°	536.7	538.1	541.3	550.7	573.5	632.0	733.6	776.2	820.2	791.1	693.6
20°	572.0	568.4	566.4	566.2	577.5	617.9	707.7	760.9	830.0	826.9	716.6
22.5°	620.9	622.1	617.7	606.8	605.4	627.9	694.8	745.4	832.9	858.6	737.9
25°	690.3	696.3	683.2	662.4	652.1	657.1	702.8	740.6	832.5	885.0	751.2
27.5°	771.3	775.9	762.6	735.3	714.2	702.3	726.6	754.8	835.4	907.9	759.2
30°	863.5	865.1	846.8	818.2	787.3	761.8	766.4	783.9	850.2	937.9	768.6
32.5°	976.2	982.7	955.1	909.7	866.6	833.9	819.7	831.0	882.3	973.3	783.1
35°	1119.3	1121.5	1086.4	1021.4	960.4	915.0	885.4	891.3	931.1	1022.9	804.9
37.5°	1254.1	1256.4	1219.0	1158.7	1071.4	1009.3	966.3	963.6	993.5	1093.0	840.5
40°	1339.7	1346.0	1329.3	1291.5	1208.1	1124.4	1066.1	1056.7	1075.3	1178.8	890.1
42.5°	1385.8	1388.5	1388.1	1393.1	1343.5	1260.3	1178.6	1159.9	1172.3	1271.4	940.3
45°	1386.1	1392.9	1411.2	1458.7	1460.9	1409.1	1320.8	1291.5	1280.0	1364.6	992.6
47.5°	1324.0	1331.4	1381.5	1475.1	1544.1	1555.9	1491.1	1432.3	1384.2	1444.9	1035.6
50°	1136.2	1154.6	1250.0	1415.6	1560.5	1673.5	1653.6	1573.8	1476.8	1507.0	1062.5
52.5°	973.0	972.3	1031.1	1247.5	1492.1	1725.4	1810.8	1719.4	1568.4	1546.4	1069.3
55°	712.5	716.4	776.6	954.1	1309.7	1675.2	1897.2	1853.4	1673.4	1567.3	1066.6
57.5°	369.5	388.9	450.6	608.8	995.2	1502.7	1874.2	1903.4	1780.1	1582.2	1070.2
60°	186.7	182.9	205.1	290.7	576.6	1173.7	1732.4	1825.3	1799.4	1593.8	1072.4
62.5°	124.6	123.6	117.5	134.7	235.6	695.1	1476.8	1607.1	1665.5	1566.5	1044.1
65°	107.9	105.9	94.6	93.9	114.4	288.3	1082.4	1263.3	1376.5	1445.3	976.4
67.5°	97.2	94.1	82.7	77.1	82.2	126.7	610.0	847.3	1016.5	1222.3	828.1
70°	86.8	85.2	73.8	65.6	65.1	77.2	224.7	437.3	622.0	833.9	605.4
72.5°	77.7	75.0	65.3	57.5	53.5	54.7	97.5	168.4	321.9	520.2	362.1
75°	67.3	65.3	56.8	48.9	44.2	40.1	59.5	77.9	146.8	247.2	171.0
77.5°	52.0	50.6	44.8	38.9	36.1	29.8	36.1	49.1	67.9	104.2	89.0
80°	30.2	31.0	33.4	30.3	26.6	21.3	23.5	28.3	40.7	56.4	50.5
82.5°	15.2	16.2	21.7	17.6	15.9	12.4	14.0	16.7	21.3	31.2	19.8
85°	1.2	1.2	3.9	4.4	5.5	4.4	5.6	6.8	9.7	12.4	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.5	2.9	1.9
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°	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5
2.5°	595.5	586.8	576.4	567.9	554.8	547.8	538.9	528.0	523.6	521.5	520.3
5°	596.7	581.4	559.2	538.8	516.1	498.2	478.2	457.4	445.5	442.6	440.5
7.5°	601.2	579.7	544.4	510.6	468.5	429.5	391.4	353.8	334.5	327.2	326.5
10°	607.3	579.0	529.4	473.3	402.2	340.5	296.0	266.5	254.0	249.9	248.6
12.5°	615.0	578.5	509.6	421.5	325.6	267.3	241.9	237.2	238.9	238.5	238.5
15°	624.7	579.2	485.7	362.8	263.4	232.0	232.6	238.2	243.5	244.3	244.3
17.5°	635.3	578.5	451.1	304.0	226.1	223.7	231.5	239.4	244.1	244.8	244.8
20°	646.7	575.2	407.5	248.6	209.7	218.4	226.9	233.1	236.0	236.6	236.6
22.5°	653.5	566.0	360.1	210.4	199.3	210.0	215.7	222.0	222.3	216.9	216.7
25°	652.5	548.8	306.0	185.8	188.2	197.6	204.8	200.3	194.9	191.8	191.3
27.5°	646.0	522.9	251.0	167.3	175.1	185.7	183.4	179.7	178.3	174.9	174.6
30°	637.8	491.0	201.5	152.8	161.5	171.2	167.8	167.4	166.1	162.3	162.3
32.5°	630.0	458.1	164.2	142.0	152.8	153.4	158.2	158.6	157.9	151.4	150.7
35°	627.7	425.2	139.0	133.5	144.2	143.9	150.7	150.5	138.8	129.7	129.6
37.5°	634.4	391.8	123.9	126.5	132.5	136.9	142.4	132.5	128.6	123.1	122.8
40°	648.5	360.9	116.3	122.4	125.0	131.4	122.9	123.6	122.6	118.5	118.0
42.5°	667.3	334.7	112.0	121.0	120.7	122.4	113.0	115.8	117.3	114.2	113.7
45°	685.4	311.8	109.8	115.9	117.6	107.8	105.9	108.4	110.8	109.6	109.1
47.5°	698.7	292.1	108.6	108.9	113.7	102.8	99.7	100.9	103.8	104.3	104.2
50°	702.8	275.2	107.2	103.1	102.1	97.9	95.5	95.1	98.5	100.9	101.3
52.5°	694.9	260.2	103.7	98.0	93.1	93.8	92.9	91.2	94.6	97.9	98.2
55°	683.3	251.6	98.0	93.1	87.3	90.0	90.4	88.8	91.0	93.3	93.3
57.5°	684.2	256.6	92.6	88.5	82.2	85.8	87.6	87.0	87.0	88.7	88.8
60°	689.8	263.8	89.0	82.7	77.1	80.8	85.1	84.4	82.9	85.1	85.1
62.5°	673.6	254.2	86.6	77.1	71.6	76.0	81.2	80.8	79.1	82.7	83.0
65°	625.9	228.6	83.9	70.1	66.2	71.3	75.7	76.9	75.4	80.1	81.0
67.5°	524.6	192.3	78.6	63.4	60.7	65.5	69.7	71.4	70.2	75.9	76.6
70°	391.1	155.7	70.2	56.1	54.0	58.3	62.2	62.9	63.1	69.7	70.4
72.5°	249.4	121.0	59.2	47.9	46.4	49.6	52.5	55.2	56.4	62.7	62.6
75°	139.1	90.0	47.6	40.6	37.8	40.4	43.8	47.1	50.5	59.7	60.7
77.5°	80.1	63.3	37.7	32.6	29.3	32.1	35.0	39.6	49.8	57.8	56.8
80°	45.2	41.1	28.5	23.9	21.8	23.9	26.1	34.8	39.2	42.6	43.1
82.5°	21.1	23.0	19.4	14.7	14.7	16.0	18.1	26.9	29.7	24.2	21.1
85°	7.7	10.4	9.5	7.5	6.6	6.5	11.3	15.3	9.5	8.5	7.3
87.5°	2.0	2.9	2.7	1.9	1.0	0.9	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)