

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: P629060

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2049.4 lumens
Efficiency: N/A
Efficacy: 104.0 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

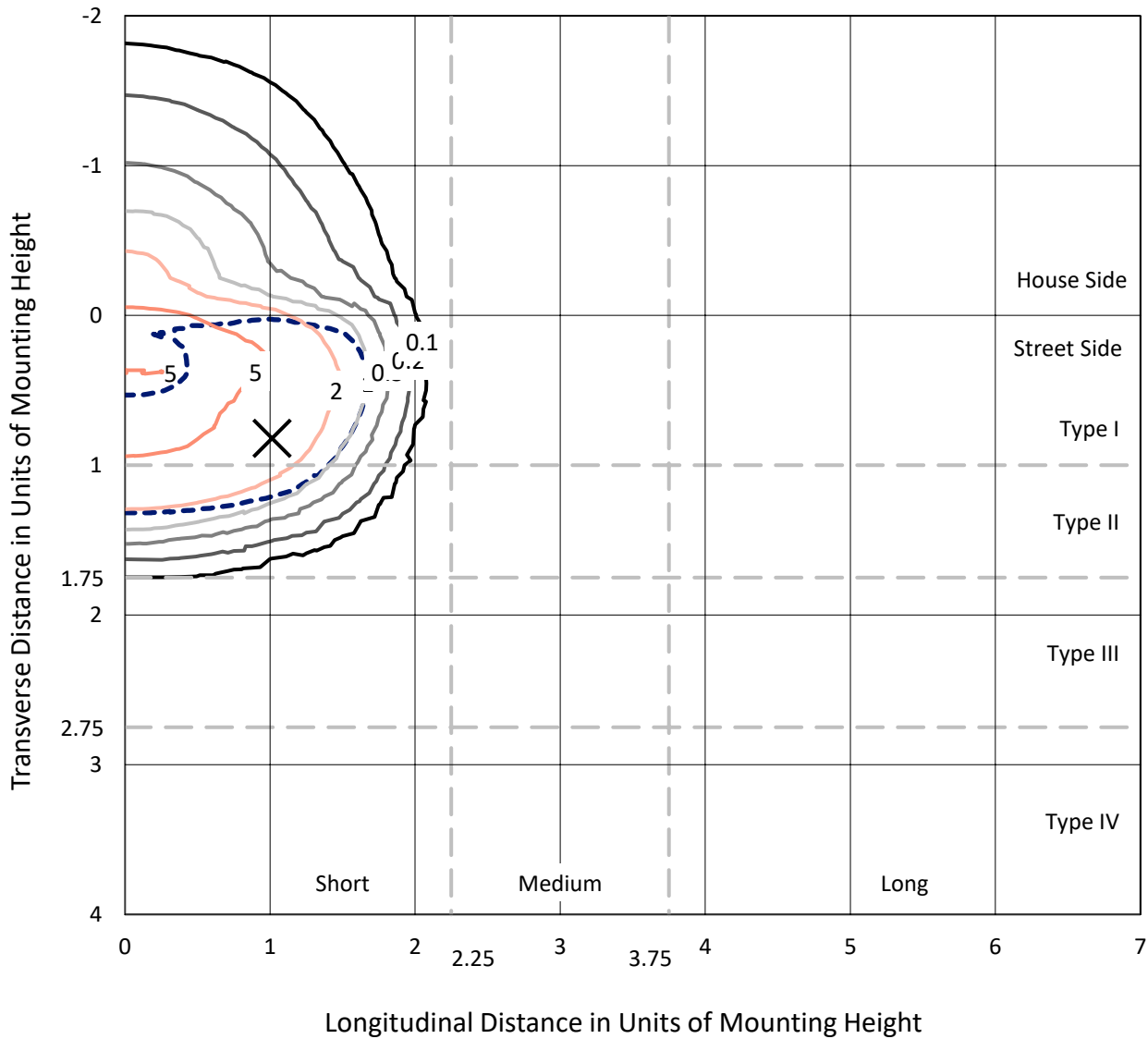
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

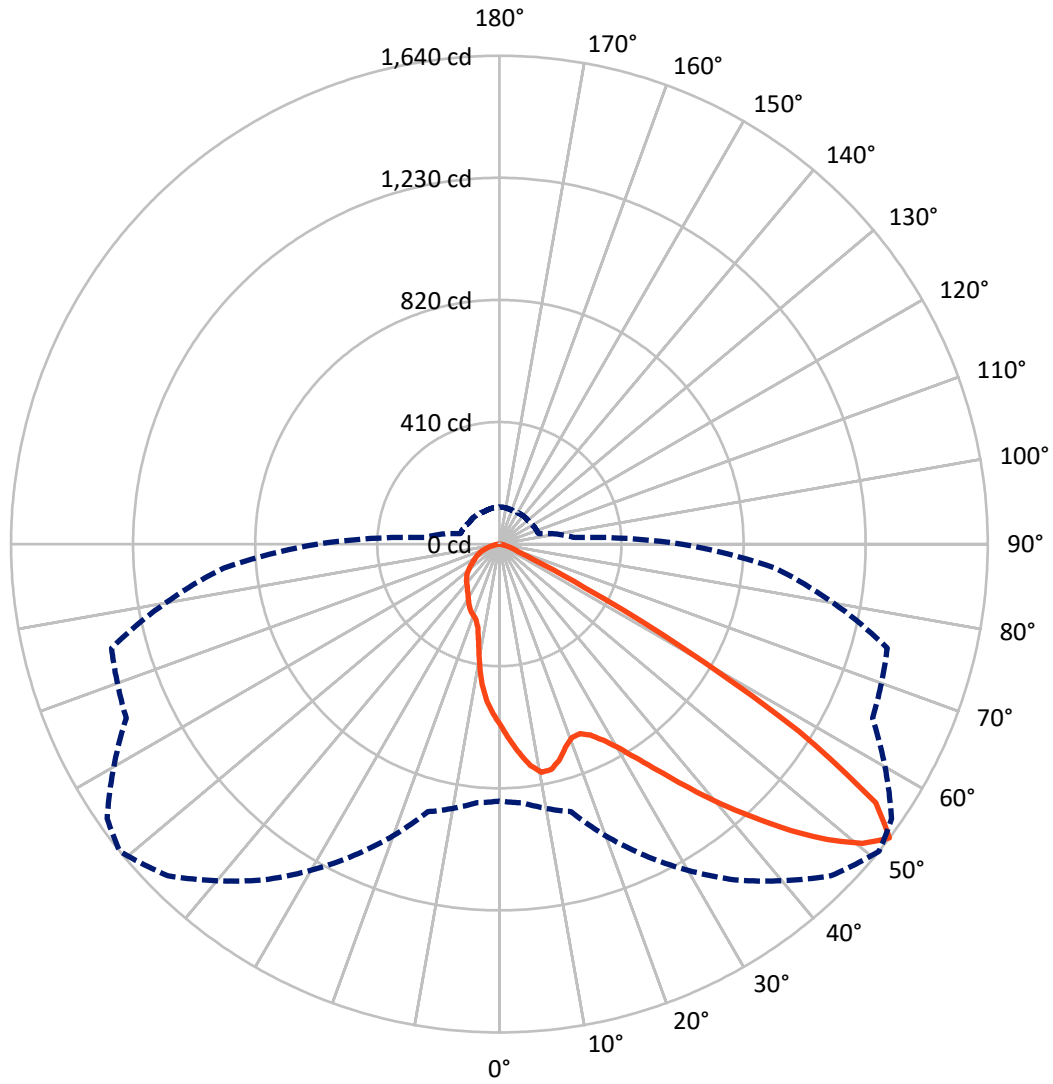
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.3	0.0	399.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1650.1	0.0	1650.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	2049.4	0.0	2049.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	2.8
10°-20°	148.0	7.2
20°-30°	240.6	11.7
30°-40°	381.2	18.6
40°-50°	575.0	28.1
50°-60°	497.4	24.3
60°-70°	112.8	5.5
70°-80°	33.2	1.6
80°-90°	4.3	0.2
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°	2049.4	100.0
0°-180°	2049.4	100.0

Coefficient of Utilization



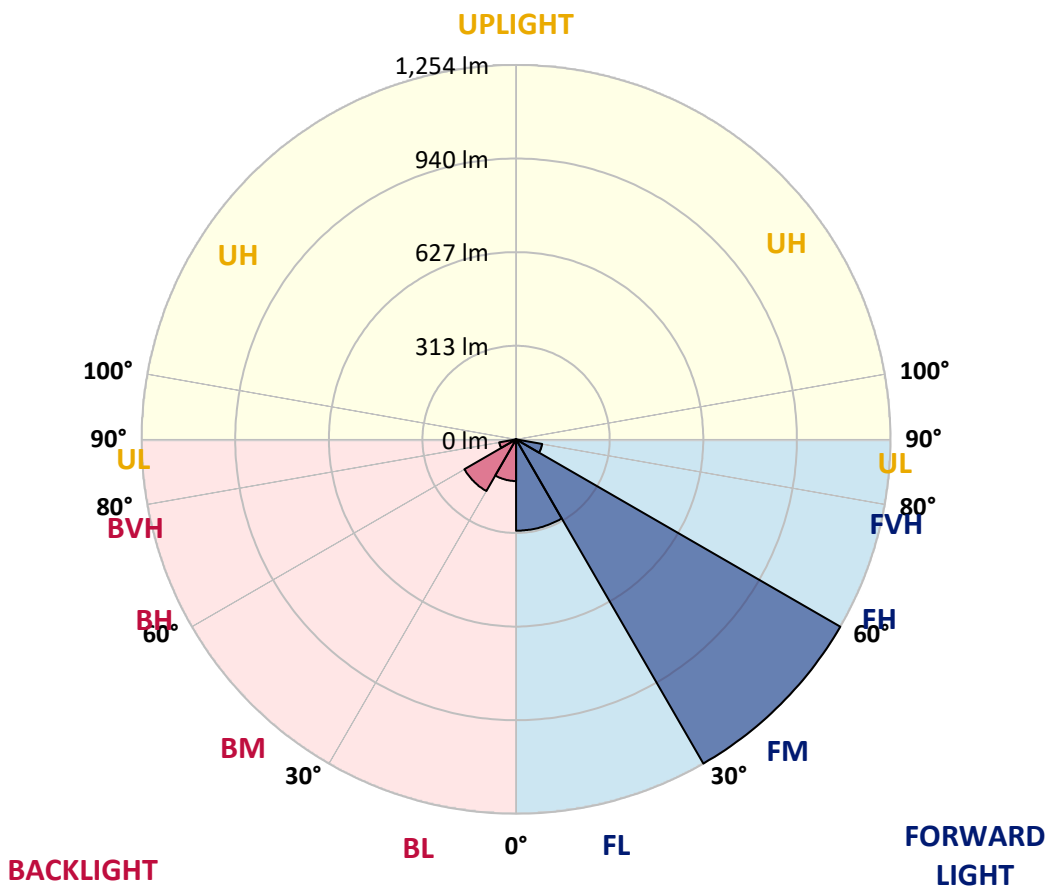
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.9	14.9			
FM (30°-60°)	1253.9	61.2			
FH (60°-80°)	88.7	4.3			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	139.6	6.8	B1/500		
BM (30°-60°)	199.8	9.7	B0/220		
BH (60°-80°)	57.3	2.8	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			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°	51°	55°	65°	75°	85°
0°	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2
2.5°	680.0	683.9	677.9	675.6	671.9	665.4	658.0	655.9	639.8	629.3	617.5
5°	748.3	750.5	745.6	740.7	731.5	720.0	705.6	702.5	673.4	649.2	624.1
7.5°	763.6	762.8	767.0	769.7	768.6	764.1	751.3	745.3	710.5	672.2	635.1
10°	703.3	698.8	714.3	732.8	755.0	780.6	779.1	778.6	748.3	703.2	649.2
12.5°	623.5	621.2	633.9	657.0	699.0	755.6	776.8	793.4	782.5	732.6	664.9
15°	577.8	577.0	585.6	602.3	635.6	707.2	752.6	785.3	811.8	764.2	681.6
17.5°	569.6	570.0	573.0	582.5	606.5	665.4	717.9	763.6	834.7	798.9	702.5
20°	593.7	596.9	591.9	593.4	606.3	650.4	694.3	741.7	849.2	833.7	725.0
22.5°	647.3	646.2	635.1	628.7	628.8	659.6	691.7	731.5	858.8	867.5	745.4
25°	708.0	706.7	693.6	679.2	670.1	684.7	710.3	742.4	867.4	898.5	761.8
27.5°	779.8	775.7	761.1	742.7	722.6	728.9	746.2	771.7	880.7	928.9	772.6
30°	849.2	853.9	833.0	811.2	790.0	786.1	796.1	819.1	907.7	964.5	785.6
32.5°	941.4	939.8	916.6	888.1	857.8	854.9	862.8	883.9	956.3	1013.8	805.4
35°	1053.0	1053.3	1020.4	981.9	938.8	931.0	944.3	964.7	1028.7	1080.5	836.6
37.5°	1168.9	1168.4	1139.8	1096.0	1037.3	1026.2	1041.5	1056.7	1119.2	1171.3	885.2
40°	1250.2	1253.5	1240.0	1217.0	1161.3	1134.4	1147.9	1158.4	1217.7	1278.2	949.2
42.5°	1296.4	1301.2	1304.1	1317.9	1288.6	1259.9	1255.1	1260.6	1305.6	1377.5	1009.2
45°	1306.2	1312.7	1333.9	1385.0	1396.3	1388.2	1372.3	1359.0	1371.2	1447.9	1048.6
47.5°	1262.7	1274.0	1319.4	1408.6	1474.8	1500.3	1482.6	1462.4	1409.1	1466.1	1044.5
50°	1090.1	1103.3	1205.5	1360.3	1486.0	1578.6	1580.3	1550.3	1404.5	1413.8	993.7
52.5°	863.0	872.1	930.5	1153.2	1376.4	1575.4	1640.2	1608.1	1382.7	1348.4	930.0
55°	515.8	530.4	584.9	760.8	1072.2	1396.3	1534.3	1549.8	1372.0	1293.5	886.6
57.5°	174.1	181.2	233.4	336.0	631.9	1022.4	1185.4	1248.6	1245.5	1209.6	802.0
60°	82.9	84.5	95.1	127.5	253.0	534.3	701.7	774.6	841.0	847.6	499.0
62.5°	63.2	64.1	69.5	76.4	101.7	225.1	321.6	377.3	403.1	345.9	181.7
65°	52.8	53.6	57.7	62.0	69.2	97.5	123.4	142.3	128.3	99.9	86.6
67.5°	44.0	44.7	47.8	52.5	57.3	65.3	68.5	70.4	73.8	82.9	79.7
70°	34.5	35.1	38.4	42.4	47.1	49.1	52.1	54.1	60.9	72.6	72.2
72.5°	26.6	27.4	29.2	31.7	35.6	37.6	41.0	43.2	47.1	56.5	60.4
75°	19.4	19.9	21.5	22.3	22.8	22.3	25.7	28.3	33.5	37.1	38.1
77.5°	7.9	8.9	8.6	8.6	10.2	12.3	14.1	15.7	19.3	21.4	21.5
80°	3.2	3.6	4.2	4.7	5.7	7.3	8.4	9.1	10.7	12.0	13.0
82.5°	1.9	2.1	2.4	2.6	3.2	4.2	4.9	5.3	6.6	7.9	8.4
85°	1.0	1.0	1.1	1.3	1.6	1.9	2.3	2.6	3.4	4.2	4.7
87.5°	0.2	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.6
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°	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2
2.5°	610.5	601.8	591.6	583.5	574.1	567.1	557.3	551.1	545.3	540.4	536.8
5°	611.2	596.4	575.2	556.4	537.0	518.5	499.6	484.2	470.5	459.0	458.0
7.5°	614.9	593.7	560.5	527.6	489.7	453.1	416.5	386.7	364.1	352.2	349.8
10°	621.2	593.4	545.4	493.0	428.3	369.4	326.0	303.3	290.2	285.5	283.9
12.5°	627.9	592.6	526.2	444.1	354.3	302.7	278.9	276.1	278.5	278.9	278.7
15°	636.0	592.1	501.9	386.7	300.2	271.7	273.4	279.2	284.9	286.2	286.2
17.5°	645.8	590.9	468.8	330.7	266.4	265.8	274.3	282.1	287.5	288.4	288.4
20°	656.2	588.0	428.2	285.0	252.6	262.0	271.3	277.2	281.0	282.3	282.4
22.5°	663.3	580.2	381.4	251.2	244.1	254.9	261.5	267.7	267.7	264.5	263.5
25°	664.8	563.6	330.7	228.0	233.8	243.9	250.7	247.1	240.5	237.9	237.7
27.5°	659.4	539.3	280.7	211.5	221.5	231.6	230.4	225.3	222.4	219.8	220.7
30°	653.0	510.1	237.2	197.9	207.3	217.2	213.3	211.5	209.4	206.5	207.1
32.5°	648.6	477.6	203.9	187.4	197.7	199.4	202.1	201.9	200.0	194.5	194.2
35°	649.9	444.7	181.5	178.8	189.8	189.2	194.3	193.4	179.9	172.3	171.8
37.5°	660.2	413.1	168.4	172.0	177.2	181.2	185.8	174.1	169.4	164.5	164.9
40°	680.0	383.8	161.3	168.3	169.6	175.5	165.0	164.9	162.8	158.4	158.2
42.5°	702.4	359.0	156.4	166.5	164.7	165.8	154.7	156.0	155.8	153.0	152.2
45°	716.0	336.2	152.6	159.8	160.3	149.0	145.6	147.0	147.9	146.4	146.2
47.5°	701.9	310.0	148.5	149.6	153.8	141.4	137.2	137.3	138.8	138.9	138.3
50°	662.4	280.7	143.6	140.9	138.1	133.4	129.6	128.7	130.2	131.7	132.1
52.5°	611.3	252.6	135.5	131.3	124.9	124.9	123.1	120.5	122.4	124.4	125.0
55°	573.9	231.9	124.0	119.4	112.2	114.7	114.3	112.1	114.7	116.1	116.6
57.5°	497.3	186.4	109.2	107.7	101.7	104.6	105.3	102.3	101.1	101.4	101.9
60°	295.2	120.3	98.5	98.3	93.0	96.4	98.3	95.4	91.5	92.0	92.6
62.5°	132.5	92.0	85.0	84.4	84.2	88.6	90.7	87.9	82.4	82.9	83.6
65°	83.4	79.5	73.8	73.8	76.4	80.2	81.8	79.5	73.2	72.4	73.0
67.5°	77.4	74.0	68.2	67.0	68.3	71.4	71.6	67.2	63.5	62.8	62.8
70°	69.5	66.9	61.2	58.9	58.5	58.3	57.8	56.7	54.3	53.6	53.9
72.5°	57.5	55.7	52.1	49.7	48.4	48.3	46.3	45.3	43.2	42.9	42.8
75°	38.1	38.5	38.5	38.2	37.1	36.6	34.5	33.5	31.1	30.1	30.0
77.5°	22.5	23.0	23.6	23.8	23.6	23.6	21.7	20.6	18.1	16.8	16.5
80°	13.8	14.1	14.4	14.9	14.3	13.8	12.0	10.9	9.7	8.9	8.7
82.5°	8.9	9.2	9.4	9.7	9.4	8.7	7.3	6.6	5.8	5.2	5.0
85°	5.0	5.2	5.5	5.5	5.0	4.5	3.7	3.2	2.8	2.4	2.4
87.5°	1.8	1.8	1.8	1.9	1.6	1.5	1.0	0.6	0.5	0.5	0.5
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)