

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: P628674

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1791.2 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

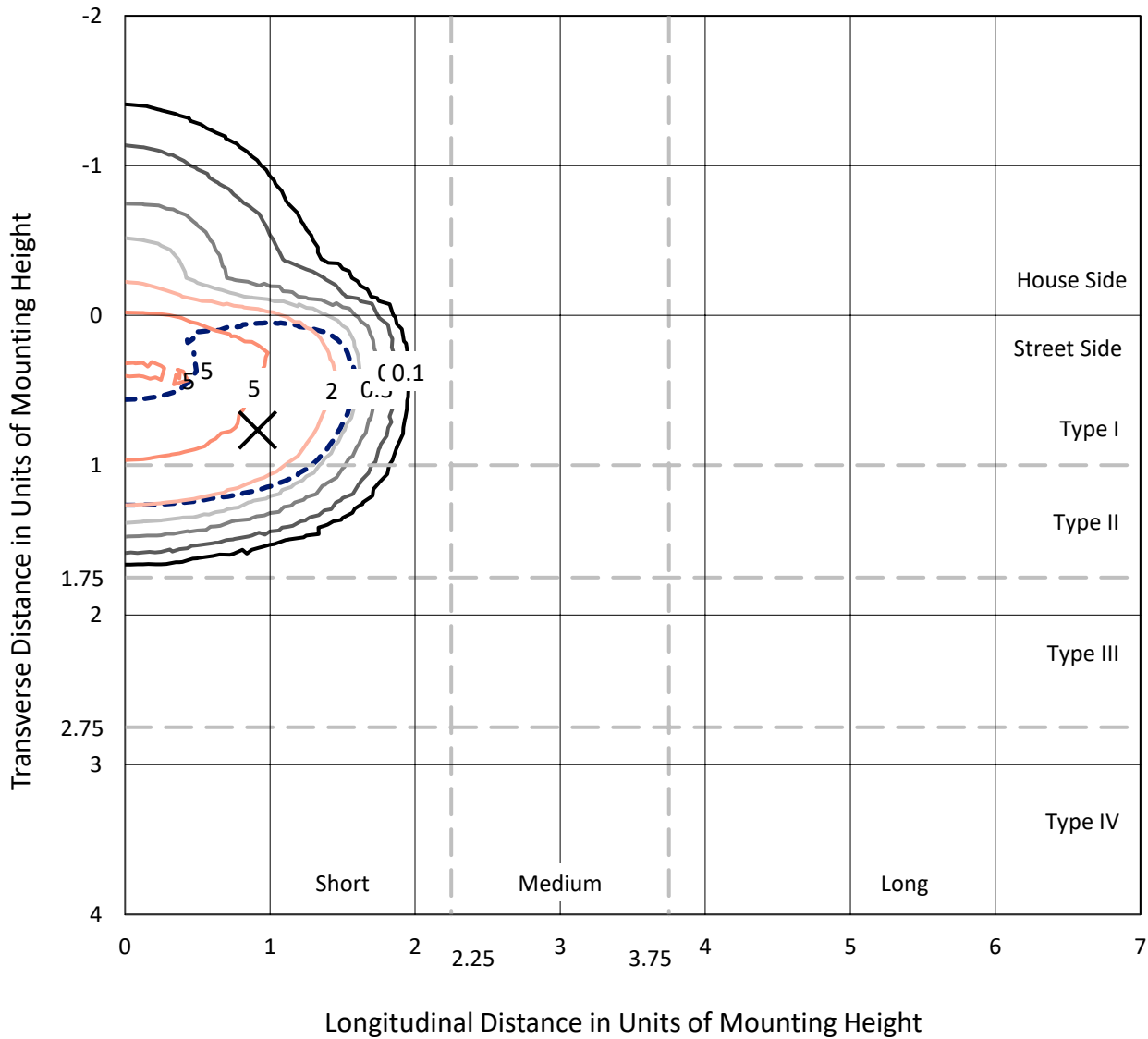
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

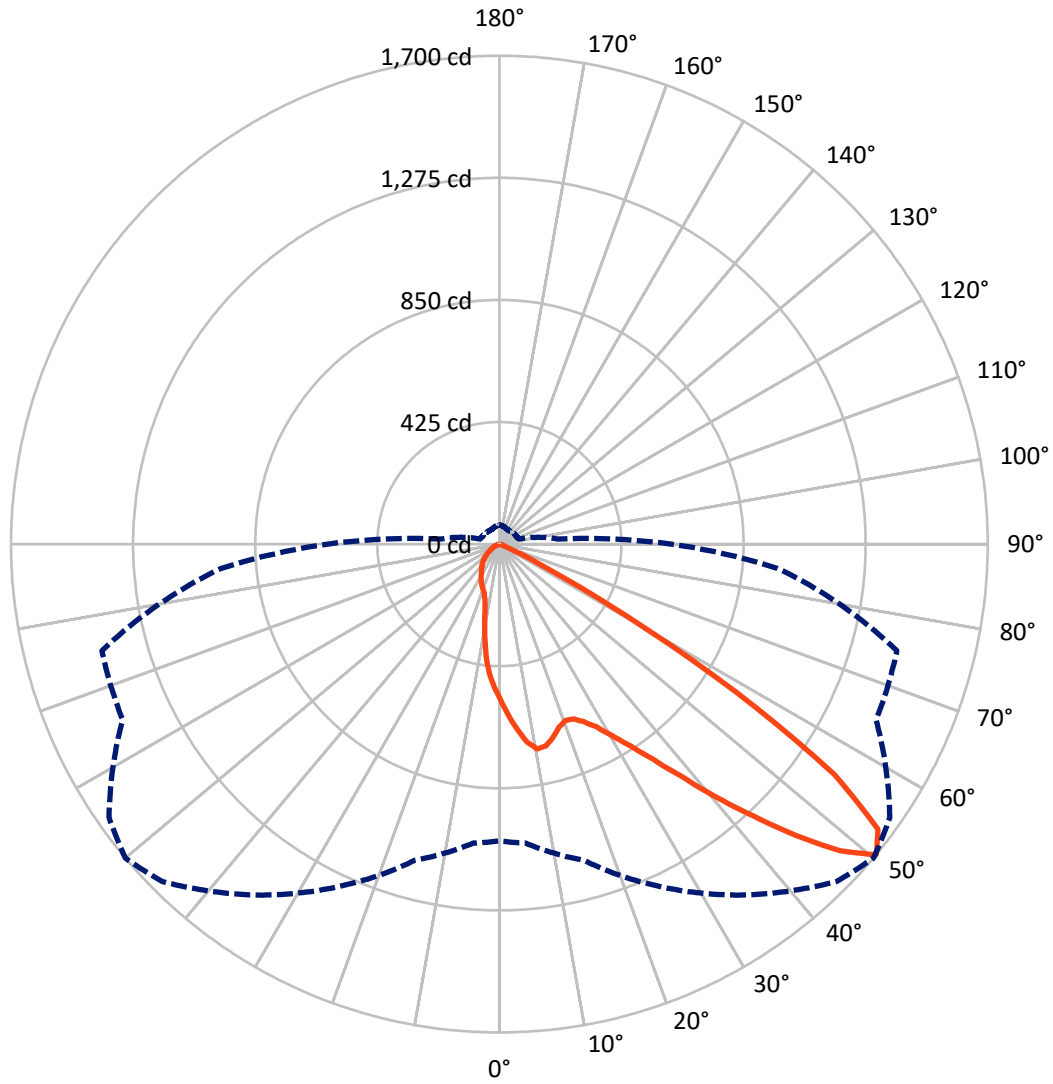
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	230.1	0.0	230.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	1561.1	0.0	1561.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	1791.2	0.0	1791.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	2.8
10°-20°	129.9	7.3
20°-30°	214.4	12.0
30°-40°	353.7	19.7
40°-50°	559.7	31.2
50°-60°	423.7	23.7
60°-70°	53.0	3.0
70°-80°	6.0	0.3
80°-90°	0.5	0.0
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°	1791.2	100.0
0°-180°	1791.2	100.0

Coefficient of Utilization



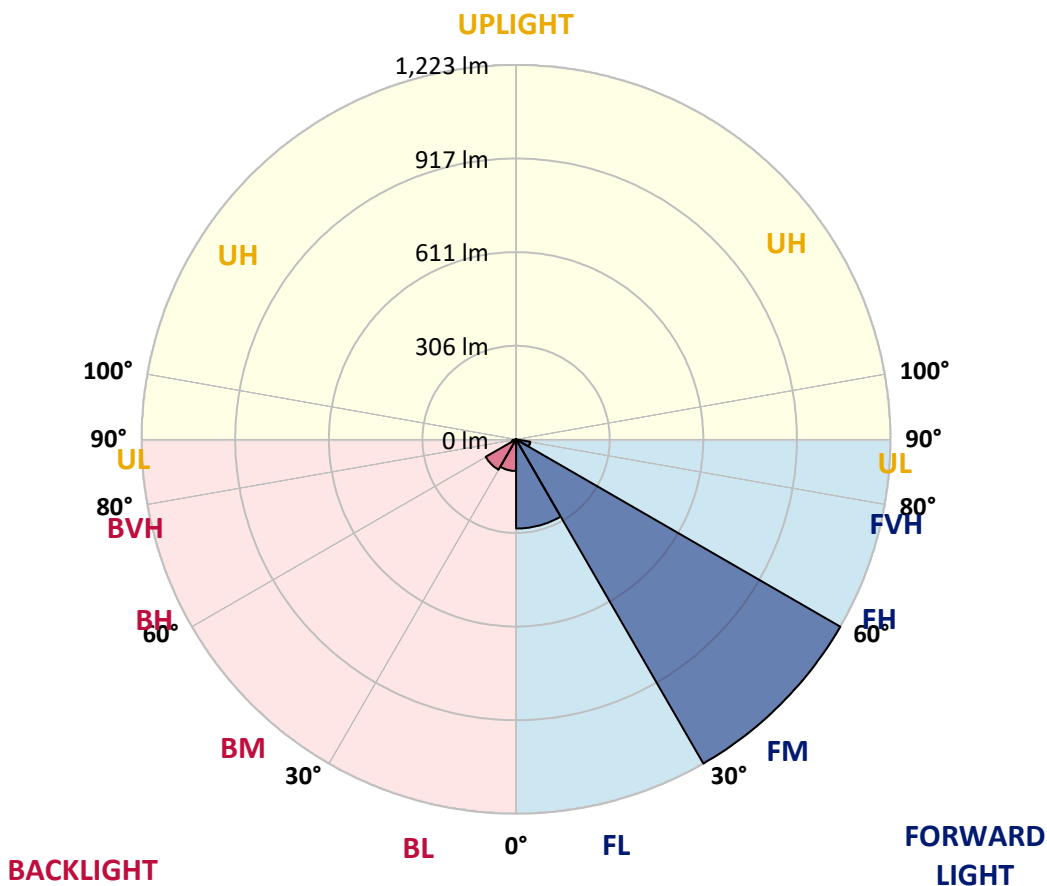
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.3	16.3			
FM (30°-60°)	1222.7	68.3			
FH (60°-80°)	46.9	2.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	103.3	5.8	B0/110		
BM (30°-60°)	114.5	6.4	B0/220		
BH (60°-80°)	12.1	0.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7
2.5°	618.4	623.3	621.9	615.5	608.5	603.5	595.9	593.5	576.1	564.0	551.2
5°	693.0	694.6	692.9	685.0	672.7	661.0	648.4	641.0	611.9	585.6	558.9
7.5°	710.9	709.1	712.3	716.2	714.5	709.4	696.1	688.1	653.3	610.5	569.9
10°	655.0	650.8	662.9	683.1	704.5	728.5	725.1	725.8	693.7	641.9	584.4
12.5°	580.9	579.1	588.2	611.7	653.5	708.0	721.2	743.2	730.7	675.8	601.0
15°	548.3	549.1	554.6	569.4	599.4	667.3	698.8	738.6	763.8	708.7	619.2
17.5°	553.2	556.3	556.1	561.1	579.3	633.7	670.5	724.1	789.4	746.6	640.2
20°	586.8	589.9	585.3	581.5	587.7	625.2	655.7	709.4	806.6	784.8	662.3
22.5°	637.1	640.7	629.8	619.0	615.1	639.2	661.3	703.4	819.7	819.7	682.1
25°	698.0	702.9	686.0	666.9	656.0	668.7	685.4	716.9	833.2	851.1	695.6
27.5°	766.0	766.2	751.7	730.2	709.7	711.3	721.3	747.2	848.0	884.8	706.2
30°	842.6	843.1	823.8	798.1	772.3	765.3	773.8	793.4	878.9	927.3	720.8
32.5°	941.4	943.8	916.2	878.4	844.9	831.8	836.8	857.4	928.0	980.5	742.8
35°	1075.1	1077.7	1036.9	987.0	933.8	914.0	918.9	939.7	999.1	1056.0	777.9
37.5°	1207.1	1210.5	1169.2	1122.7	1049.7	1017.0	1022.1	1041.9	1105.8	1160.3	834.2
40°	1298.3	1302.9	1290.1	1258.7	1191.0	1148.1	1154.2	1161.4	1223.2	1285.1	907.2
42.5°	1346.3	1352.8	1358.3	1374.3	1338.7	1302.7	1292.3	1292.8	1342.8	1412.3	983.0
45°	1349.2	1355.5	1383.5	1445.4	1472.5	1465.0	1446.1	1433.3	1434.0	1497.1	1030.4
47.5°	1255.5	1267.2	1319.6	1440.8	1542.7	1605.0	1595.4	1565.1	1472.3	1502.7	1025.3
50°	1033.3	1044.9	1140.1	1314.5	1491.6	1660.9	1700.3	1659.5	1447.3	1432.6	972.6
52.5°	750.5	751.7	813.4	1017.1	1284.3	1557.7	1650.5	1646.6	1409.1	1347.7	900.7
55°	356.5	352.2	421.6	574.0	888.2	1259.9	1416.2	1460.6	1354.9	1286.3	844.9
57.5°	103.8	105.9	136.7	224.0	444.3	805.2	969.9	1052.4	1112.1	1057.5	655.4
60°	46.5	46.7	52.0	68.2	148.0	374.6	501.4	603.5	664.9	616.1	325.1
62.5°	33.8	33.9	36.0	38.5	50.3	126.8	188.0	250.6	255.2	167.1	82.3
65°	28.1	28.1	28.5	28.5	30.2	45.3	57.1	73.7	62.1	46.0	32.2
67.5°	22.7	22.8	23.2	23.2	22.7	22.7	24.6	26.9	28.8	35.6	29.7
70°	17.7	17.6	17.6	17.7	17.2	14.7	15.9	18.1	19.8	27.8	25.7
72.5°	13.8	14.0	13.8	13.1	11.9	8.7	9.4	11.8	12.6	17.4	17.4
75°	10.4	10.6	9.9	7.5	4.9	2.7	3.6	5.8	7.3	8.5	6.3
77.5°	1.4	1.4	1.0	1.0	0.9	1.0	1.0	1.4	2.0	2.0	1.5
80°	0.2	0.2	0.2	0.3	0.5	0.7	0.7	0.7	0.7	0.9	0.9
82.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.2	0.3	0.5	0.5	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.2	0.3	0.5	0.5	0.5	0.7	0.7	0.7
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°	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7
2.5°	543.5	533.6	521.7	513.5	501.9	494.2	483.3	476.0	469.7	464.7	467.5
5°	543.7	528.0	503.6	482.8	460.1	439.3	417.0	399.5	383.6	376.4	380.4
7.5°	547.1	524.6	487.3	450.3	406.8	363.8	323.6	290.9	274.7	267.0	269.4
10°	553.7	523.1	469.0	407.6	337.1	278.4	239.4	217.2	208.2	203.4	204.2
12.5°	559.9	522.0	445.3	351.5	266.0	216.0	195.7	192.7	194.5	194.7	194.5
15°	568.2	520.2	416.0	293.9	212.8	186.7	187.2	191.6	196.1	197.4	197.1
17.5°	577.1	517.3	378.1	238.7	180.5	178.2	184.1	190.1	194.5	195.2	195.4
20°	586.3	511.3	335.0	194.9	165.5	171.7	178.3	182.8	186.0	187.0	187.4
22.5°	590.6	498.7	285.2	163.5	155.5	163.7	168.6	174.4	175.4	171.7	172.4
25°	588.4	477.4	236.6	142.4	145.4	153.6	160.9	158.0	153.8	151.1	151.9
27.5°	581.4	449.1	189.1	126.8	134.7	145.1	145.9	142.7	142.0	139.8	140.5
30°	573.9	416.5	152.1	114.4	123.8	134.7	132.1	133.3	133.5	130.9	131.8
32.5°	569.3	382.4	121.0	106.0	116.8	118.8	123.9	126.3	126.5	120.5	121.6
35°	570.8	348.8	102.5	99.2	110.3	109.8	117.0	118.3	108.4	100.2	101.1
37.5°	583.2	317.8	91.9	93.9	99.1	103.0	108.4	99.4	97.2	93.4	93.9
40°	606.4	291.4	85.6	90.7	91.4	97.7	89.3	90.5	90.7	88.3	88.8
42.5°	633.5	269.4	81.8	88.8	87.1	88.1	79.8	82.2	84.7	83.7	83.9
45°	647.2	247.9	78.6	82.3	82.9	73.1	71.3	73.8	77.1	77.6	77.7
47.5°	635.1	227.4	75.2	73.0	76.4	66.7	64.4	65.3	69.0	71.1	71.4
50°	598.1	203.9	70.1	64.6	62.7	59.8	57.8	58.0	62.2	65.8	66.5
52.5°	546.1	179.4	61.7	54.7	50.5	52.7	53.2	52.2	56.1	59.7	60.4
55°	495.6	148.7	48.9	44.5	40.6	45.3	46.7	45.3	46.5	48.9	49.1
57.5°	349.0	84.1	37.5	36.8	33.6	38.9	41.1	39.0	37.0	38.5	38.9
60°	161.8	44.0	28.8	28.8	28.0	33.4	37.2	34.3	30.3	31.0	31.5
62.5°	50.6	27.8	21.1	19.9	22.8	28.5	31.5	28.6	24.0	24.0	24.7
65°	28.6	23.9	16.7	15.3	18.6	22.8	24.7	21.7	17.6	17.2	17.2
67.5°	26.6	22.7	14.8	12.4	13.1	14.7	15.3	13.3	12.1	11.9	12.1
70°	22.0	18.9	11.9	8.5	8.0	7.8	8.2	7.7	7.3	7.5	8.0
72.5°	13.6	11.4	7.5	5.1	4.4	4.3	4.3	4.3	4.1	4.1	4.1
75°	4.9	4.3	3.4	2.6	2.2	2.0	2.0	2.2	2.0	1.9	1.7
77.5°	1.5	1.4	1.4	1.4	1.2	1.0	0.9	0.9	0.7	0.5	0.5
80°	0.9	0.9	0.9	0.9	0.7	0.7	0.5	0.3	0.2	0.2	0.0
82.5°	0.9	0.9	0.9	0.7	0.7	0.7	0.5	0.3	0.2	0.0	0.0
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.3	0.2	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.3	0.2	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)