

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: P633900

Luminaire Tested: GWS-SA2F-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633900  
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-SA2F-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

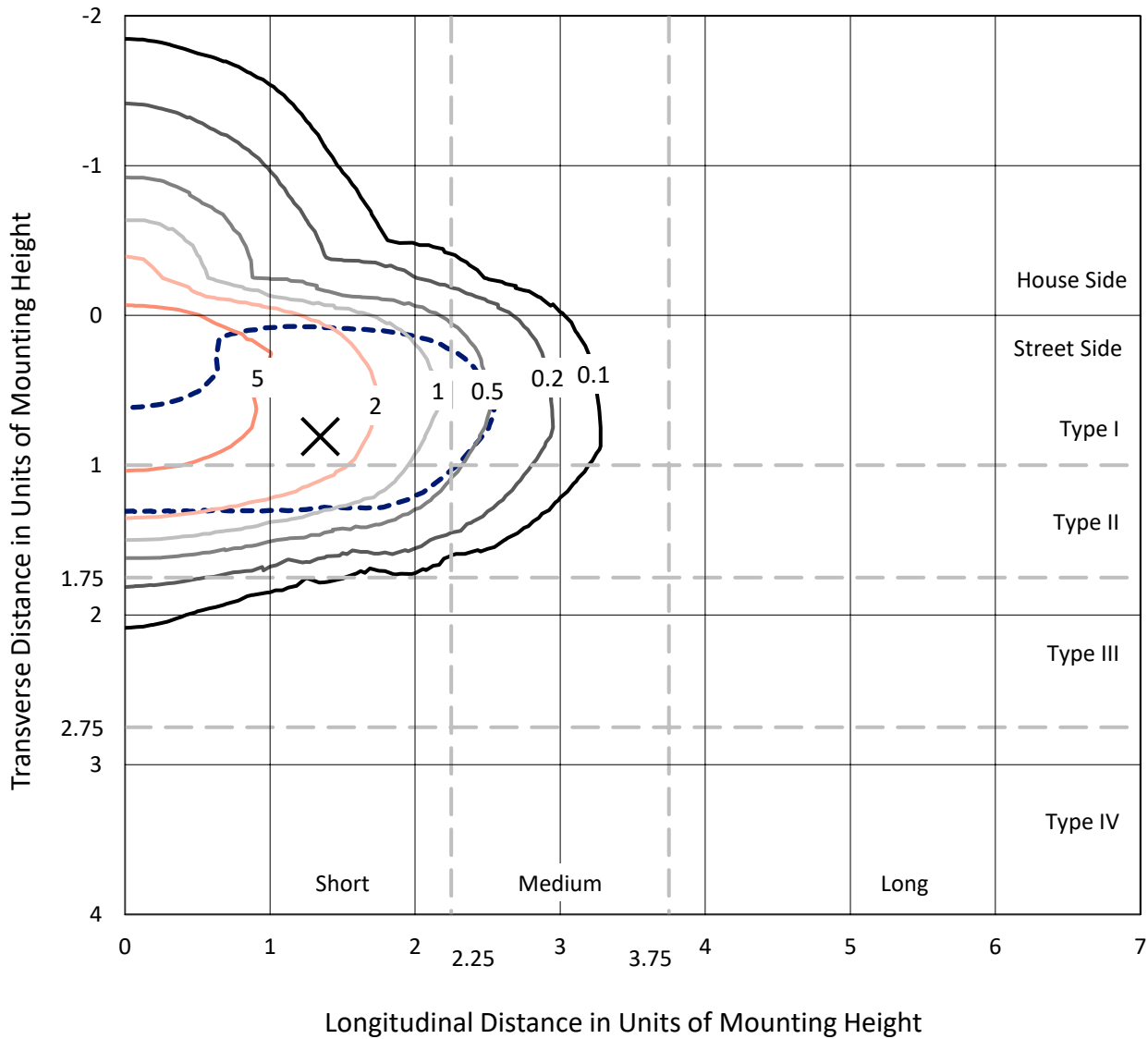
Lumens per Lamp: N/A  
Luminaire Lumens: 16666.7 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

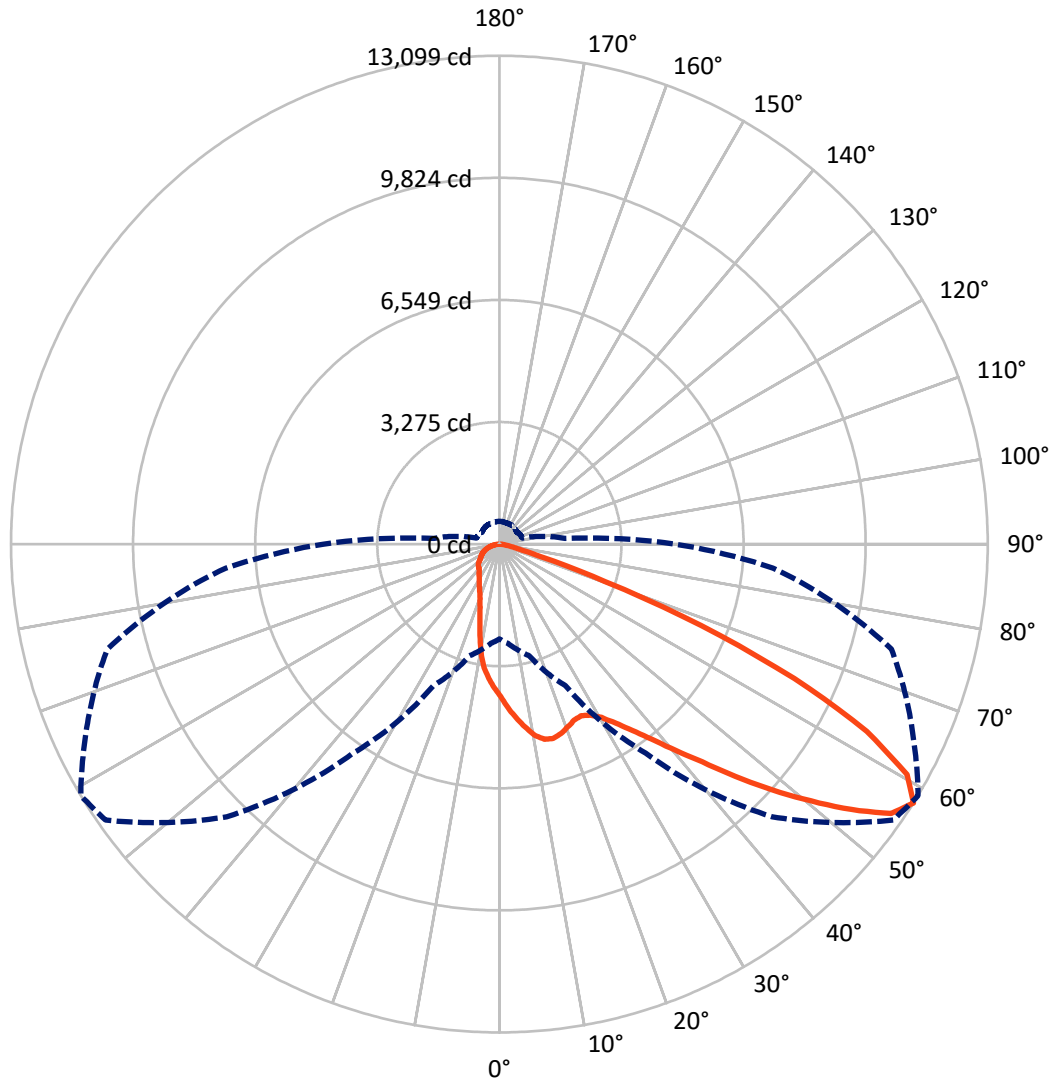
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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
<b>House Side</b>	Lumens	2586.6	0.0	2586.6
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	14080.1	0.0	14080.1
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	16666.7	0.0	16666.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.9	2.3
10°-20°	962.6	5.8
20°-30°	1560.4	9.4
30°-40°	2510.2	15.1
40°-50°	3898.1	23.4
50°-60°	4198.7	25.2
60°-70°	2436.8	14.6
70°-80°	636.1	3.8
80°-90°	83.8	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°	16666.7	100.0
0°-180°	16666.7	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3
2.5°	4640.5	4601.7	4628.7	4580.6	4560.7	4507.9	4439.8	4394.1	4323.7	4232.1	4152.4
5°	5101.6	5074.6	5080.4	5028.8	4983.1	4895.1	4755.4	4678.0	4558.3	4374.1	4202.8
7.5°	5087.5	5119.2	5136.8	5181.3	5194.3	5186.0	5060.5	4952.6	4821.1	4544.2	4286.1
10°	4560.7	4620.5	4674.5	4827.0	5012.4	5247.1	5276.4	5211.9	5079.3	4761.3	4385.8
12.5°	3986.9	4032.7	4080.8	4263.8	4547.8	5017.1	5335.1	5374.9	5322.1	4976.0	4498.5
15°	3705.3	3726.4	3772.2	3893.1	4119.5	4640.5	5233.0	5407.8	5502.8	5203.6	4625.2
17.5°	3693.6	3703.0	3725.3	3789.8	3947.0	4349.5	5048.8	5342.1	5644.8	5444.2	4773.0
20°	3936.5	3911.8	3897.7	3896.6	3974.0	4252.1	4870.4	5236.5	5711.7	5690.6	4931.4
22.5°	4273.2	4281.4	4250.9	4175.8	4166.4	4321.3	4781.2	5129.7	5731.6	5908.8	5078.1
25°	4750.7	4791.8	4701.5	4558.3	4487.9	4521.9	4836.4	5096.9	5729.3	6090.7	5169.6
27.5°	5308.1	5339.7	5248.2	5060.5	4915.0	4832.9	5000.7	5194.3	5749.2	6247.9	5224.8
30°	5942.8	5953.4	5827.8	5630.7	5418.4	5242.4	5274.0	5394.9	5851.3	6454.4	5289.3
32.5°	6718.4	6763.0	6572.9	6260.8	5963.9	5738.7	5641.3	5718.7	6071.9	6698.4	5389.0
35°	7702.8	7718.1	7476.3	7029.3	6609.3	6297.2	6093.0	6134.1	6407.5	7039.9	5539.2
37.5°	8630.9	8646.1	8389.2	7973.8	7373.1	6946.0	6650.3	6631.6	6836.9	7522.1	5784.4
40°	9219.9	9263.3	9148.3	8887.8	8314.1	7738.0	7336.7	7272.2	7400.1	8112.3	6125.9
42.5°	9536.7	9555.5	9553.1	9587.1	9245.7	8673.1	8111.1	7982.0	8067.7	8749.4	6470.8
45°	9539.0	9586.0	9711.5	10038.9	10054.1	9697.4	9089.7	8887.8	8809.2	9391.2	6831.0
47.5°	9111.9	9162.4	9507.4	10151.5	10626.7	10707.7	10261.8	9857.0	9526.1	9943.8	7126.7
50°	7819.0	7945.7	8602.7	9742.0	10739.3	11517.2	11380.0	10830.9	10163.2	10370.9	7312.1
52.5°	6696.1	6691.4	7096.2	8585.1	10268.8	11873.9	12461.8	11832.9	10793.3	10641.9	7359.0
55°	4903.3	4930.3	5344.4	6565.9	9013.4	11529.0	13056.6	12755.1	11516.1	10786.3	7340.2
57.5°	2542.6	2676.3	3101.1	4189.9	6848.6	10341.6	12898.2	13098.9	12250.6	10888.3	7364.9
60°	1284.8	1259.0	1411.5	2000.5	3968.1	8077.1	11922.0	12561.5	12383.1	10968.1	7380.1
62.5°	857.7	850.7	808.4	926.9	1621.5	4783.6	10163.2	11059.6	11462.1	10780.4	7185.4
65°	742.7	728.6	651.2	646.5	787.3	1984.1	7449.4	8694.2	9473.3	9946.2	6719.6
67.5°	668.8	647.7	569.1	530.3	565.5	871.8	4198.1	5831.4	6995.3	8411.5	5698.8
70°	597.2	586.7	508.0	451.7	448.2	531.5	1546.4	3009.5	4280.2	5738.7	4166.4
72.5°	535.0	516.3	449.4	395.4	368.4	376.6	671.1	1159.2	2215.2	3579.8	2492.1
75°	463.5	449.4	390.7	336.7	303.9	275.7	409.5	536.2	1010.2	1701.3	1176.8
77.5°	357.9	348.5	308.6	267.5	248.7	205.3	248.7	337.9	467.0	716.9	612.5
80°	207.7	213.5	230.0	208.8	183.0	146.7	161.9	194.8	280.4	388.4	347.3
82.5°	104.4	111.5	149.0	120.9	109.1	85.7	96.2	115.0	146.7	214.7	136.1
85°	8.2	8.2	27.0	30.5	37.5	30.5	38.7	46.9	66.9	85.7	45.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.9	10.6	19.9	12.9
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°	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3
2.5°	4098.4	4038.5	3967.0	3908.3	3818.0	3769.9	3708.8	3633.7	3603.2	3589.2	3581.0
5°	4106.6	4001.0	3848.5	3707.7	3551.6	3428.4	3291.1	3148.0	3065.9	3045.9	3031.8
7.5°	4137.1	3989.3	3746.4	3514.1	3224.3	2955.6	2693.9	2434.6	2302.0	2251.6	2246.9
10°	4179.3	3984.6	3643.1	3257.1	2767.8	2343.1	2036.9	1833.9	1748.2	1720.1	1710.7
12.5°	4232.1	3981.1	3507.0	2900.4	2241.0	1839.8	1664.9	1632.1	1643.8	1641.5	1641.5
15°	4299.0	3985.7	3342.8	2496.8	1812.8	1596.9	1600.4	1639.1	1675.5	1681.4	1681.4
17.5°	4371.8	3981.1	3104.6	2092.0	1555.8	1539.4	1593.4	1647.3	1680.2	1684.9	1684.9
20°	4450.4	3958.8	2804.2	1710.7	1443.2	1503.0	1561.7	1603.9	1623.9	1628.6	1628.6
22.5°	4497.3	3895.4	2478.0	1447.9	1371.6	1445.5	1484.2	1527.7	1530.0	1492.5	1491.3
25°	4490.3	3776.9	2106.1	1278.9	1295.3	1359.9	1409.1	1378.6	1341.1	1320.0	1316.5
27.5°	4445.7	3598.6	1727.1	1151.0	1205.0	1277.7	1262.5	1236.7	1227.3	1203.8	1201.5
30°	4389.4	3379.1	1386.9	1051.3	1111.1	1178.0	1154.5	1152.2	1142.8	1117.0	1117.0
32.5°	4335.4	3152.7	1129.9	977.4	1051.3	1056.0	1088.8	1091.2	1086.5	1041.9	1037.2
35°	4320.1	2926.2	956.2	918.7	992.6	990.3	1037.2	1036.0	955.1	892.9	891.7
37.5°	4365.9	2696.3	853.0	870.6	911.7	942.2	979.7	911.7	884.7	847.1	844.8
40°	4463.3	2483.9	800.2	842.4	860.0	904.6	846.0	850.7	843.6	815.5	811.9
42.5°	4592.3	2303.2	770.9	833.1	830.7	842.4	777.9	796.7	807.2	786.1	782.6
45°	4716.7	2146.0	755.6	797.9	809.6	741.5	728.6	746.2	762.7	754.4	750.9
47.5°	4808.2	2009.9	747.4	749.7	782.6	707.5	686.4	694.6	714.5	718.1	716.9
50°	4836.4	1893.7	738.0	709.9	702.8	673.5	657.1	654.7	678.2	694.6	696.9
52.5°	4782.4	1790.5	713.4	674.7	640.6	645.3	639.5	627.7	651.2	673.5	675.8
55°	4702.6	1731.8	674.7	640.6	600.7	619.5	621.9	611.3	626.5	641.8	641.8
57.5°	4708.5	1765.8	637.1	608.9	565.5	590.2	603.1	598.4	598.4	610.1	611.3
60°	4747.2	1815.1	612.5	569.1	530.3	556.2	585.5	580.8	570.2	585.5	585.5
62.5°	4635.8	1749.4	596.0	530.3	492.8	523.3	558.5	556.2	544.4	569.1	571.4
65°	4307.2	1573.4	577.3	482.2	455.2	490.4	521.0	529.2	518.6	551.5	557.3
67.5°	3610.3	1323.5	540.9	436.5	417.7	450.6	479.9	491.6	483.4	522.1	526.8
70°	2691.6	1071.2	483.4	386.0	371.9	401.3	428.3	433.0	434.1	479.9	484.6
72.5°	1716.6	833.1	407.1	329.7	319.1	341.4	361.4	380.2	388.4	431.8	430.6
75°	957.4	619.5	327.4	279.2	260.5	278.1	301.5	323.8	347.3	410.7	417.7
77.5°	551.5	435.3	259.3	224.1	201.8	220.6	240.5	272.2	342.6	397.8	390.7
80°	310.9	282.8	195.9	164.3	150.2	164.3	179.5	239.4	269.9	293.3	296.8
82.5°	145.5	158.4	133.8	100.9	100.9	110.3	124.4	185.4	204.2	166.6	145.5
85°	52.8	71.6	65.7	51.6	45.8	44.6	77.4	105.6	65.7	58.7	50.5
87.5°	14.1	19.9	18.8	12.9	7.0	5.9	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)