

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: P638358

Luminaire Tested: GWS-SA4E-760-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-760-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

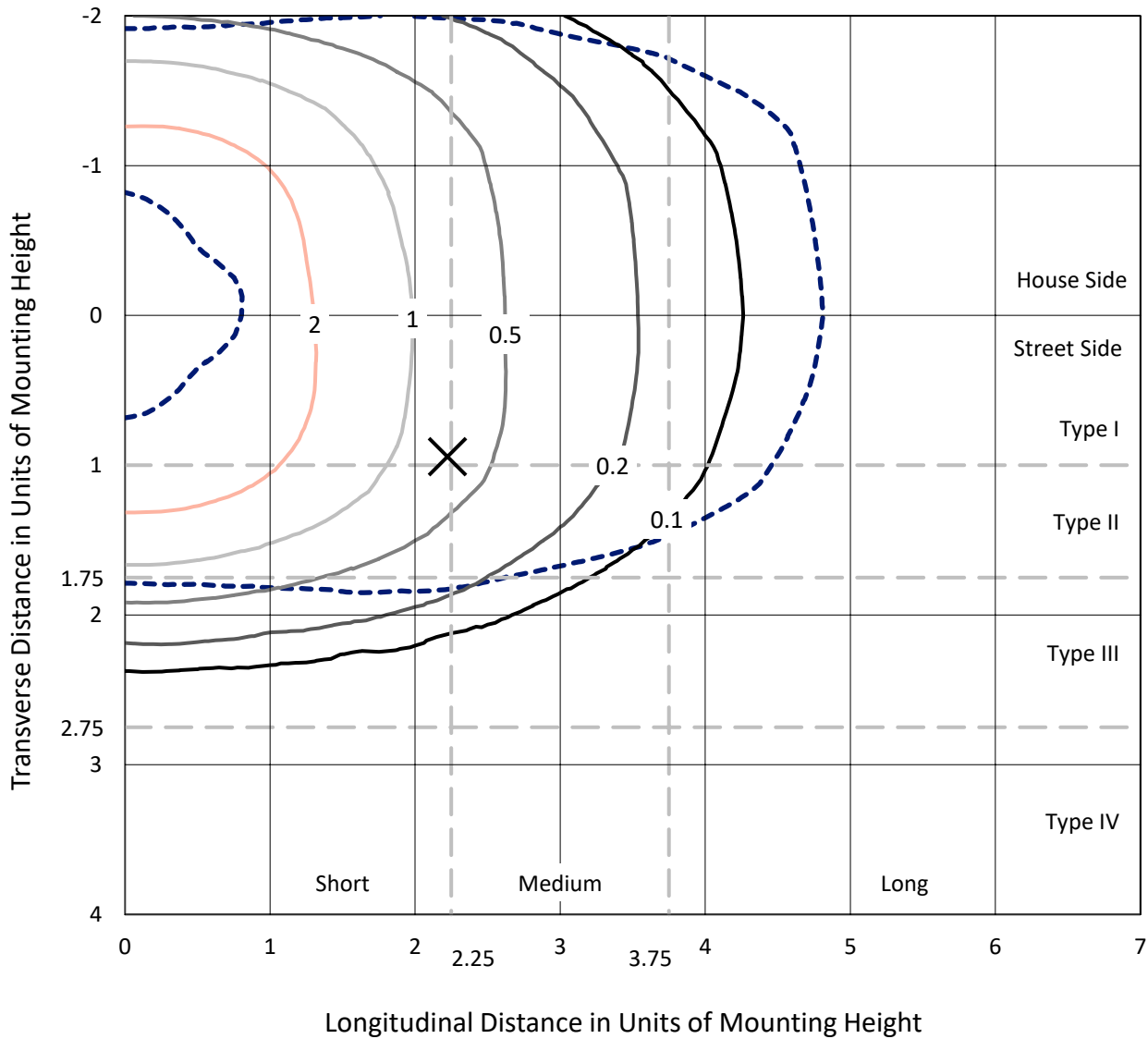
Lumens per Lamp: N/A  
Luminaire Lumens: 31783.4 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

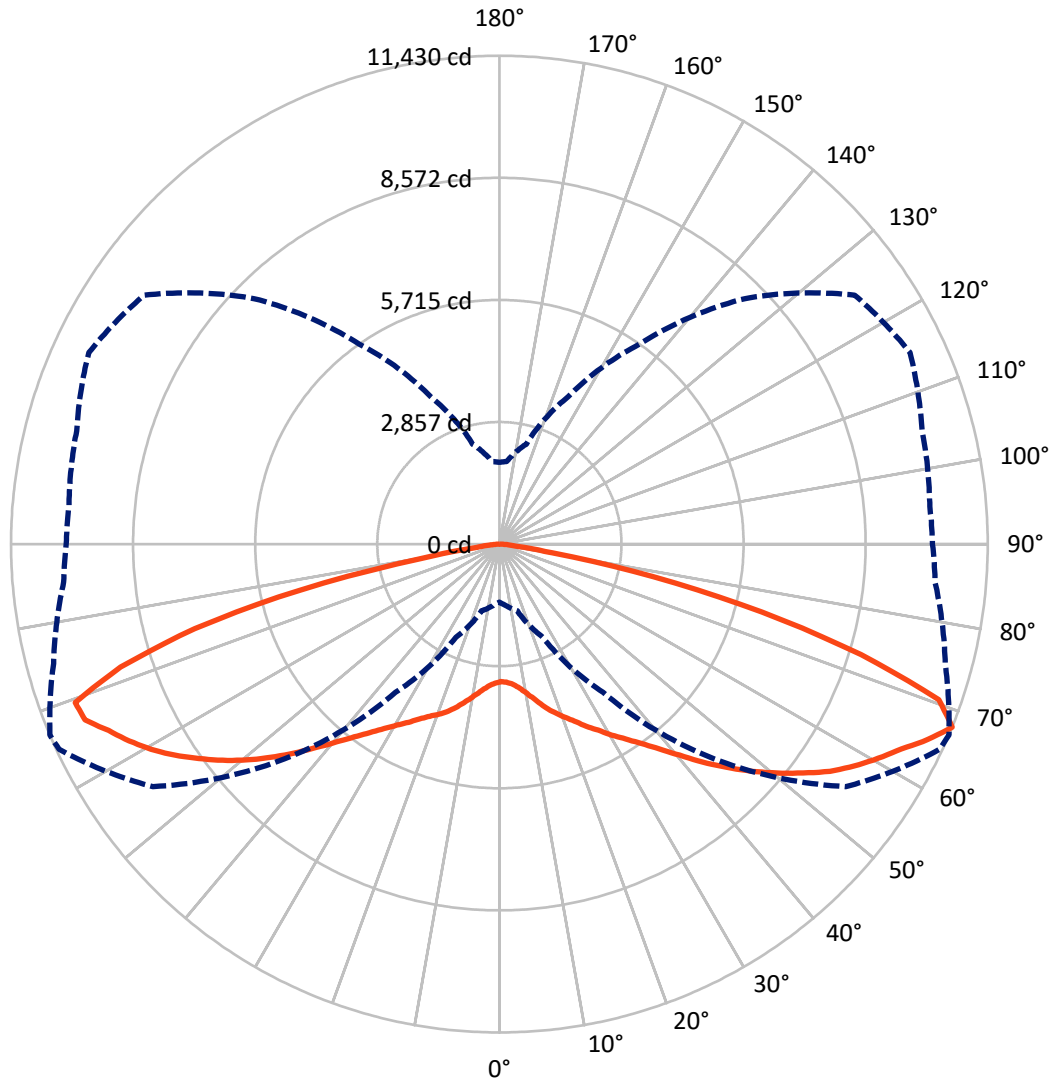
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15716.3	0.0	15716.3
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	16067.1	0.0	16067.1
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	31783.4	0.0	31783.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.8	1.0
10°-20°	1066.7	3.4
20°-30°	2092.9	6.6
30°-40°	3565.6	11.2
40°-50°	5725.7	18.0
50°-60°	7780.0	24.5
60°-70°	7442.1	23.4
70°-80°	3538.2	11.1
80°-90°	256.4	0.8
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°	31783.4	100.0
0°-180°	31783.4	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2
2.5°	3151.8	3156.3	3162.9	3176.2	3189.5	3209.4	3229.3	3227.1	3236.0	3242.6	3249.2
5°	3134.1	3138.6	3149.6	3167.3	3187.3	3220.5	3262.5	3280.2	3293.5	3317.8	3340.0
7.5°	3171.8	3180.6	3196.1	3220.5	3251.4	3293.5	3351.0	3382.0	3402.0	3446.2	3483.9
10°	3222.7	3233.7	3264.7	3311.2	3357.7	3421.9	3494.9	3541.4	3554.7	3612.2	3683.1
12.5°	3271.4	3284.6	3335.6	3419.7	3503.8	3590.1	3676.4	3734.0	3738.4	3815.9	3895.5
15°	3348.8	3359.9	3428.5	3537.0	3665.3	3784.9	3891.1	3931.0	3948.7	4004.0	4103.6
17.5°	3519.3	3532.5	3621.1	3738.4	3873.4	3999.6	4105.8	4139.0	4139.0	4185.5	4267.4
20°	3703.0	3716.3	3833.6	3984.1	4147.9	4276.2	4358.1	4327.1	4316.1	4329.4	4386.9
22.5°	3908.8	3933.2	4046.0	4220.9	4422.3	4579.5	4621.5	4528.6	4497.6	4466.6	4479.9
25°	4172.2	4201.0	4311.7	4497.6	4694.6	4860.6	4884.9	4741.0	4723.3	4614.9	4575.0
27.5°	4475.4	4497.6	4634.8	4818.5	5002.2	5141.7	5168.2	4991.2	4931.4	4780.9	4687.9
30°	4867.2	4887.1	5006.7	5188.1	5347.5	5444.9	5478.1	5234.6	5188.1	4958.0	4814.1
32.5°	5294.4	5303.2	5425.0	5599.8	5741.5	5834.5	5788.0	5504.7	5436.0	5177.1	4980.1
35°	5783.5	5783.5	5940.7	6082.4	6195.2	6221.8	6133.3	5810.1	5730.4	5449.3	5203.6
37.5°	6263.8	6277.1	6423.2	6591.4	6691.0	6686.6	6525.0	6170.9	6080.1	5774.7	5502.4
40°	6784.0	6812.8	6958.8	7147.0	7242.2	7228.9	6981.0	6587.0	6494.0	6133.3	5867.7
42.5°	7262.1	7308.6	7479.0	7671.6	7775.6	7766.7	7507.8	7065.1	6974.3	6567.1	6301.5
45°	7642.8	7691.5	7904.0	8171.8	8337.8	8322.3	8061.1	7560.9	7450.2	7023.0	6730.9
47.5°	7977.0	8027.9	8264.7	8548.1	8811.4	8838.0	8599.0	8061.1	7943.8	7512.2	7182.4
50°	8233.8	8258.1	8523.7	8833.6	9139.0	9287.3	9079.3	8563.5	8421.9	7994.7	7622.9
52.5°	8213.8	8247.0	8574.6	8995.2	9404.6	9648.1	9504.2	9037.2	8900.0	8435.2	8072.2
55°	7808.8	7842.0	8231.5	8844.6	9552.9	9911.5	9896.0	9488.7	9389.1	8884.5	8539.2
57.5°	7217.8	7290.9	7678.2	8340.0	9358.1	10121.8	10183.7	9900.4	9796.4	9324.9	9001.8
60°	6159.8	6257.2	6704.3	7563.1	8734.0	10050.9	10491.4	10247.9	10183.7	9734.4	9420.1
62.5°	4475.4	4546.3	5141.7	6268.3	7808.8	9546.3	10750.4	10606.5	10557.8	10101.8	9798.6
65°	2680.4	2842.0	3320.1	4433.4	6299.3	8594.5	10608.7	11075.7	11024.8	10480.3	10121.8
67.5°	1356.8	1429.8	1618.0	2403.7	4236.4	7111.6	9898.2	11367.9	11429.9	10803.5	10236.9
70°	841.1	861.0	914.1	1186.4	2116.0	4672.4	8094.3	10606.5	10909.7	10752.6	9938.1
72.5°	675.1	679.5	688.4	739.3	1015.9	2184.6	5117.3	8306.8	8853.5	10042.1	9510.9
75°	560.0	562.2	564.4	579.9	633.0	892.0	2490.0	5708.3	6348.0	8534.8	8818.1
77.5°	449.3	438.2	447.1	453.7	467.0	498.0	858.8	3045.6	3694.1	5602.1	6819.4
80°	292.2	287.7	305.4	312.1	325.4	345.3	458.2	1033.6	1255.0	2038.5	2169.1
82.5°	157.1	148.3	185.9	179.3	185.9	201.4	270.0	378.5	425.0	615.3	520.1
85°	48.7	48.7	50.9	59.8	73.0	70.8	117.3	185.9	205.8	263.4	194.8
87.5°	8.9	8.9	8.9	8.9	8.9	11.1	24.3	37.6	50.9	90.7	68.6
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°	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2
2.5°	3262.5	3242.6	3253.7	3260.3	3258.1	3253.7	3231.5	3227.1	3216.0	3198.3	3193.9
5°	3359.9	3337.8	3340.0	3333.3	3311.2	3282.4	3233.7	3209.4	3189.5	3167.3	3165.1
7.5°	3512.6	3488.3	3481.6	3450.7	3388.7	3322.3	3244.8	3200.5	3167.3	3138.6	3134.1
10°	3707.4	3683.1	3660.9	3587.9	3486.1	3397.5	3295.7	3231.5	3182.8	3147.4	3140.8
12.5°	3924.3	3904.4	3849.1	3742.8	3621.1	3517.1	3413.0	3333.3	3262.5	3209.4	3202.8
15°	4165.6	4121.3	4037.2	3900.0	3784.9	3700.8	3574.6	3466.1	3353.3	3282.4	3266.9
17.5°	4333.8	4296.2	4196.6	4063.8	3973.0	3900.0	3751.7	3596.7	3444.0	3340.0	3317.8
20°	4453.3	4413.5	4300.6	4203.2	4174.4	4112.4	3939.8	3760.5	3583.5	3455.1	3426.3
22.5°	4539.6	4497.6	4382.5	4333.8	4373.6	4362.6	4194.3	3990.7	3780.4	3627.7	3592.3
25°	4621.5	4581.7	4479.9	4497.6	4603.8	4637.0	4455.5	4218.7	3979.6	3800.4	3758.3
27.5°	4699.0	4648.1	4601.6	4699.0	4849.5	4911.5	4718.9	4451.1	4192.1	4008.4	3975.2
30°	4818.5	4758.8	4752.1	4893.8	5132.8	5185.9	4973.5	4705.6	4448.9	4263.0	4220.9
32.5°	4969.0	4913.7	4918.1	5130.6	5407.3	5451.5	5270.0	5019.9	4763.2	4577.3	4519.7
35°	5172.7	5104.0	5141.7	5402.8	5681.7	5763.6	5617.5	5409.5	5159.4	4969.0	4904.8
37.5°	5453.8	5354.2	5431.6	5706.1	5987.2	6108.9	5996.0	5841.1	5593.2	5400.6	5340.9
40°	5812.3	5730.4	5761.4	6064.6	6354.6	6500.7	6429.9	6277.1	6031.4	5830.0	5761.4
42.5°	6237.3	6155.4	6144.3	6467.5	6757.4	6978.8	6910.2	6770.7	6516.2	6286.0	6219.6
45°	6653.4	6578.1	6593.6	6923.4	7248.8	7490.1	7421.4	7257.7	6981.0	6715.4	6662.3
47.5°	7087.2	7025.3	7038.5	7388.2	7746.8	7988.1	7901.7	7702.5	7379.4	7096.1	7031.9
50°	7532.1	7461.3	7481.2	7848.6	8236.0	8463.9	8331.1	8036.8	7680.4	7403.7	7348.4
52.5°	7974.8	7890.7	7941.6	8289.1	8689.7	8871.2	8625.5	8269.2	7923.9	7649.4	7587.4
55°	8483.9	8395.3	8340.0	8711.8	9108.0	9183.3	8846.9	8430.7	8021.3	7709.2	7671.6
57.5°	8948.7	8873.4	8769.4	9141.2	9433.4	9378.1	9017.3	8386.5	7784.4	7383.8	7330.7
60°	9364.8	9300.6	9209.9	9526.4	9659.2	9535.2	8880.1	7861.9	7200.1	6781.8	6757.4
62.5°	9747.7	9679.1	9595.0	9865.0	9847.3	9559.6	8255.9	7056.2	6170.9	5721.6	5681.7
65°	10050.9	9989.0	9964.6	10177.1	10148.3	9083.7	7284.2	5737.1	4508.6	4001.8	3986.3
67.5°	10137.3	10112.9	10243.5	10604.3	10155.0	8127.5	5712.7	3804.8	2421.4	1941.1	1912.4
70°	9814.1	9811.9	10185.9	10701.7	9234.2	6208.5	3371.0	1715.4	1217.4	1080.1	1062.4
72.5°	9393.6	9386.9	9683.5	9232.0	6848.2	3397.5	1418.8	918.6	761.4	723.8	723.8
75°	8703.0	8685.3	8908.8	7023.0	3851.3	1279.3	752.5	630.8	597.6	591.0	591.0
77.5°	7093.9	6945.6	6593.6	4340.4	1343.5	628.6	498.0	495.8	475.9	473.7	473.7
80°	2332.9	2332.9	2711.4	1655.6	593.2	387.3	351.9	369.6	349.7	336.4	334.2
82.5°	380.7	524.6	745.9	473.7	320.9	241.3	216.9	230.2	241.3	192.6	192.6
85°	150.5	197.0	287.7	221.3	148.3	97.4	104.0	115.1	101.8	88.5	86.3
87.5°	57.5	70.8	101.8	53.1	31.0	17.7	11.1	11.1	8.9	8.9	8.9
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)