

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: P637859

Luminaire Tested: GWS-SA4D-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20719 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

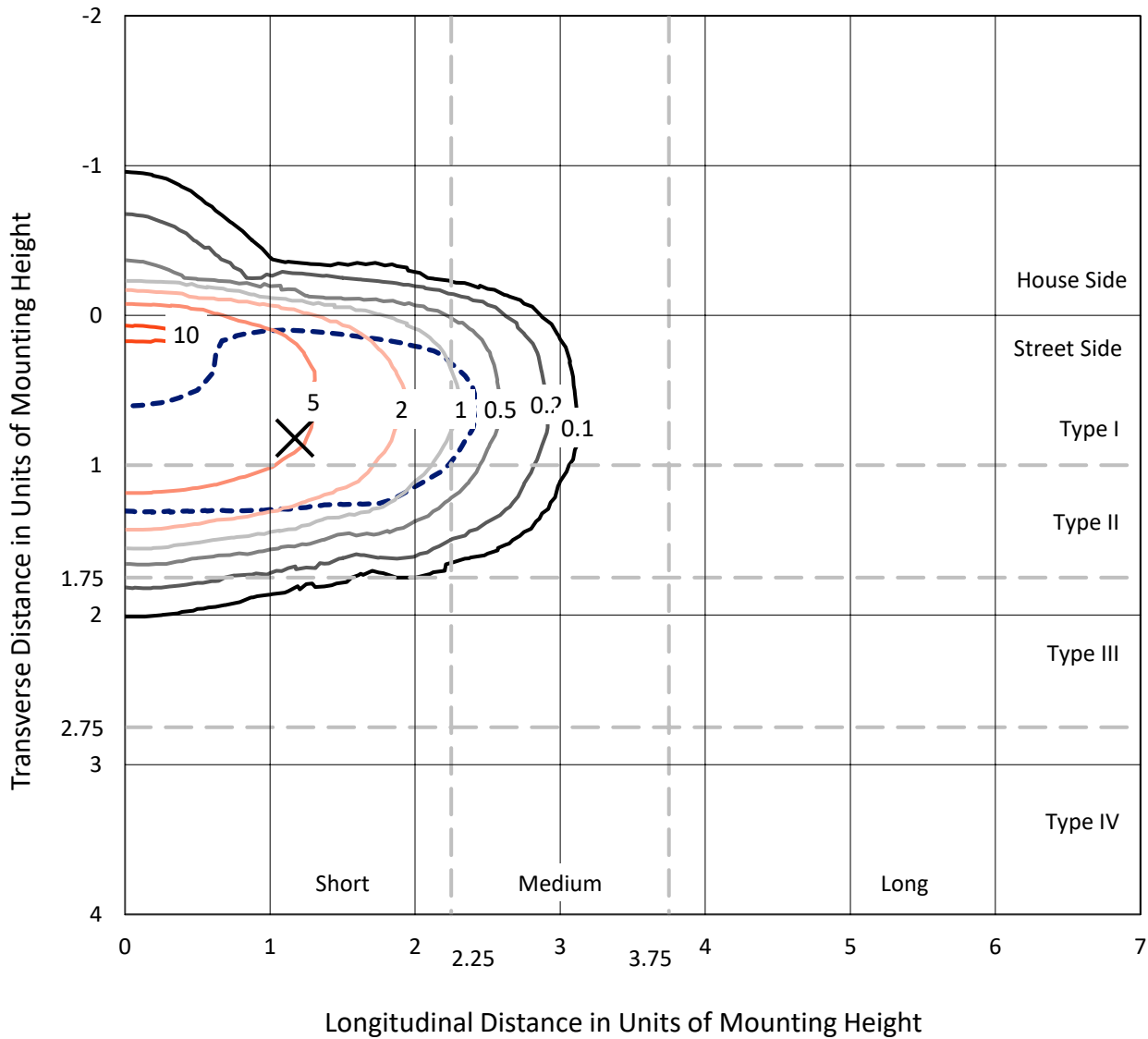
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637859
 CATALOG NUMBER: GWS-SA4D-760-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

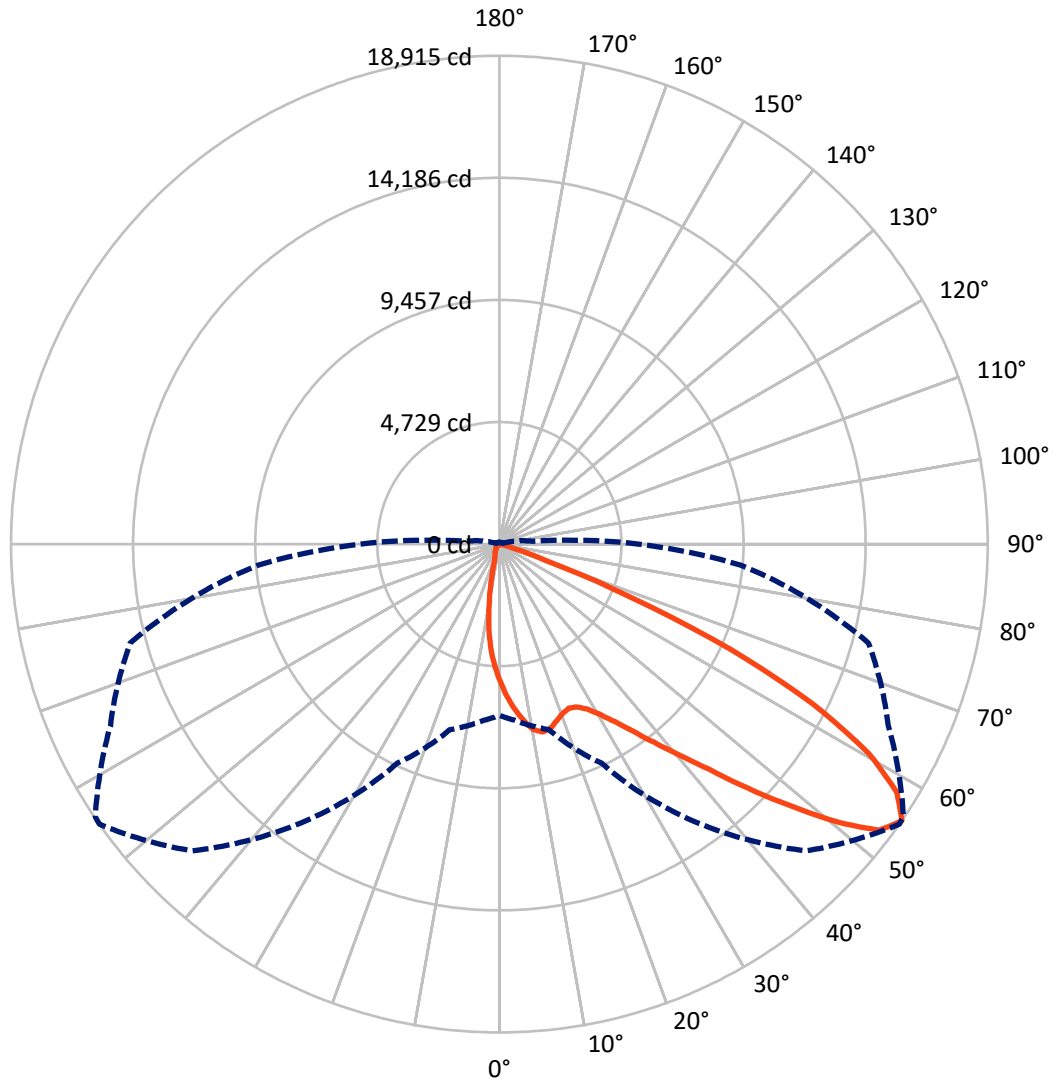
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P637859
CATALOG NUMBER: GWS-SA4D-760-U-AFL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P637859
 CATALOG NUMBER: GWS-SA4D-760-U-AFL-W-HSS

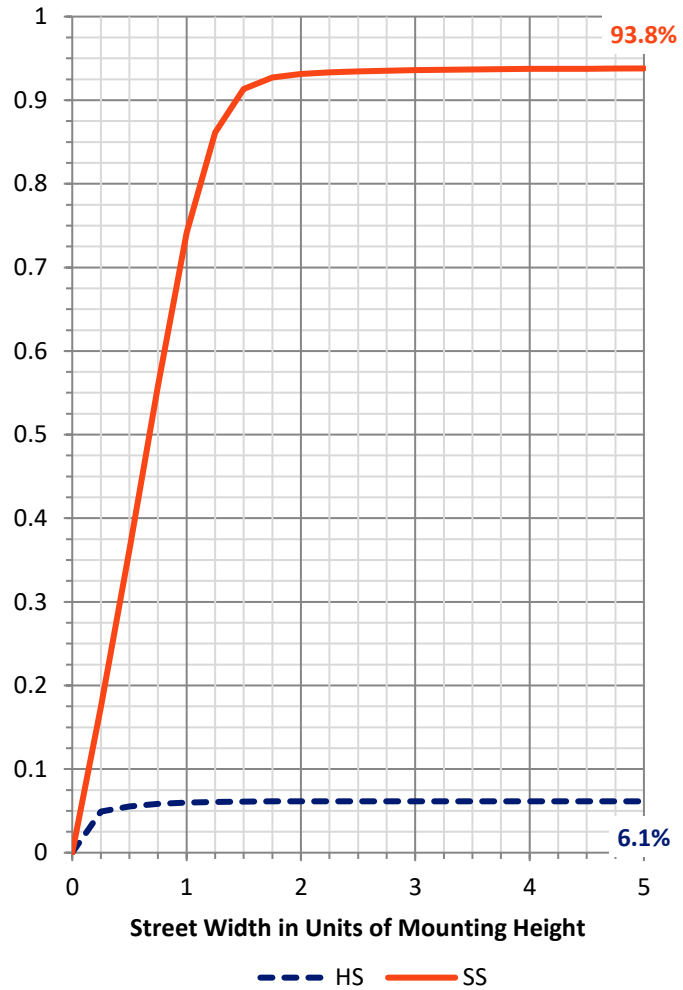
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.5	0.0	1278.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19440.6	0.0	19440.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	20719.0	0.0	20719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.0	2.3
10°-20°	1140.5	5.5
20°-30°	1899.3	9.2
30°-40°	3236.5	15.6
40°-50°	5283.1	25.5
50°-60°	5531.1	26.7
60°-70°	2789.8	13.5
70°-80°	352.4	1.7
80°-90°	13.4	0.1
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°	20719.0	100.0
0°-180°	20719.0	100.0

Coefficient of Utilization





REPORT NUMBER: P637859

CATALOG NUMBER: GWS-SA4D-760-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6
2.5°	6239.9	6209.8	6255.9	6202.8	6112.4	6036.3	5937.1	5901.6	5742.2	5591.7	5446.4
5°	6998.0	7006.9	6992.7	6918.3	6790.8	6649.1	6449.0	6404.7	6126.6	5839.7	5529.7
7.5°	7185.8	7180.5	7210.6	7238.9	7217.7	7146.8	6928.9	6884.7	6539.3	6108.9	5657.2
10°	6606.6	6610.1	6672.1	6863.4	7100.8	7347.0	7313.3	7288.5	6950.2	6413.5	5798.9
12.5°	5788.3	5820.2	5885.7	6158.5	6560.5	7120.2	7467.4	7492.2	7327.5	6748.3	5965.4
15°	5434.1	5441.1	5494.3	5659.0	5958.3	6649.1	7401.9	7470.9	7642.7	7084.8	6146.1
17.5°	5425.2	5434.1	5457.1	5529.7	5724.5	6278.9	7191.1	7311.5	7880.1	7446.1	6362.2
20°	5758.2	5752.9	5736.9	5698.0	5783.0	6156.7	6996.3	7129.1	8009.4	7798.6	6580.0
22.5°	6362.2	6355.1	6284.2	6123.0	6054.0	6268.3	6900.6	7021.0	8087.3	8112.1	6758.9
25°	7058.2	7107.8	6975.0	6730.6	6560.5	6553.5	6985.6	7070.6	8154.6	8390.2	6881.1
27.5°	7821.6	7837.6	7724.2	7449.7	7203.5	7010.4	7231.8	7295.6	8229.0	8638.2	6950.2
30°	8659.4	8654.1	8524.8	8206.0	7906.7	7628.6	7646.3	7671.1	8402.6	8921.6	7026.4
32.5°	9706.2	9729.2	9499.0	9065.0	8705.5	8321.1	8188.3	8191.8	8716.1	9286.4	7141.5
35°	11128.5	11071.8	10767.1	10149.0	9536.2	9121.7	8895.0	8875.5	9199.6	9777.0	7341.6
37.5°	12483.4	12488.8	12169.9	11489.8	10715.8	10062.2	9741.6	9688.5	9879.8	10457.2	7674.6
40°	13423.9	13441.7	13308.8	12952.8	12132.7	11208.2	10737.0	10682.1	10761.8	11318.0	8110.3
42.5°	13921.7	13971.3	14008.4	14091.7	13470.0	12639.3	11914.9	11909.6	11826.3	12299.2	8615.1
45°	13941.1	14015.5	14242.2	14810.8	14881.6	14272.4	13484.2	13365.5	13044.9	13349.6	9066.8
47.5°	13170.7	13342.5	13824.2	14950.7	15694.6	15896.5	15115.4	15042.8	14143.1	14180.3	9405.1
50°	11374.7	11553.6	12440.9	14233.4	15900.1	17186.0	16906.1	16755.6	15060.5	14729.3	9568.0
52.5°	9532.6	9695.6	10297.8	12525.9	15048.1	17591.6	18415.2	18236.3	15884.2	14920.6	9500.7
55°	6633.2	6851.0	7439.1	9362.6	13085.6	16801.6	18914.7	18877.5	16619.2	14800.2	9396.2
57.5°	3251.9	3468.0	4054.3	5772.4	9693.8	14669.1	18151.3	18347.9	17058.5	14670.9	9311.2
60°	1358.5	1447.1	1649.0	2532.8	5423.4	11086.0	16427.9	16700.7	16789.2	14495.5	9302.4
62.5°	788.2	802.4	823.6	1050.3	2109.5	6355.1	13627.6	14015.5	15374.0	14263.5	9162.4
65°	595.1	600.4	591.6	644.7	871.4	2410.6	9846.1	10373.9	12832.4	13356.6	8609.8
67.5°	488.9	488.9	465.8	476.5	547.3	903.3	5435.8	6172.6	9495.4	10977.9	7109.6
70°	389.7	398.5	387.9	373.7	391.4	499.5	1934.2	2398.2	5529.7	6482.6	4146.4
72.5°	295.8	295.8	313.5	302.9	290.5	313.5	674.8	758.1	2219.3	2702.9	1496.7
75°	228.5	235.6	248.0	237.3	219.6	186.0	324.1	343.6	669.5	628.8	334.8
77.5°	116.9	118.7	157.6	173.6	163.0	113.4	141.7	155.9	217.9	194.8	124.0
80°	70.8	74.4	88.6	136.4	108.0	60.2	58.4	62.0	102.7	88.6	51.4
82.5°	30.1	31.9	49.6	49.6	44.3	23.0	23.0	23.0	49.6	46.1	21.3
85°	0.0	0.0	8.9	7.1	7.1	8.9	8.9	8.9	12.4	17.7	10.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637859

CATALOG NUMBER: GWS-SA4D-760-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6
2.5°	5352.6	5239.2	5086.9	4948.7	4762.8	4658.3	4513.0	4394.4	4293.4	4261.5	4247.3
5°	5354.3	5159.5	4833.6	4507.7	4107.4	3792.1	3468.0	3211.2	3000.4	2933.1	2915.4
7.5°	5389.8	5102.8	4575.0	3983.4	3313.9	2761.3	2267.1	1824.3	1618.9	1549.8	1535.6
10°	5437.6	5055.0	4275.7	3354.7	2392.9	1682.6	1192.0	908.6	774.0	699.6	710.3
12.5°	5499.6	5016.0	3944.5	2674.5	1583.5	924.6	655.3	549.1	520.7	506.6	499.5
15°	5582.8	4970.0	3533.6	1999.7	970.6	595.1	504.8	476.5	465.8	458.7	457.0
17.5°	5667.9	4916.9	3115.5	1406.3	644.7	494.2	453.4	439.3	432.2	426.9	425.1
20°	5758.2	4826.5	2624.9	968.8	508.3	444.6	418.0	402.1	393.2	384.4	382.6
22.5°	5797.1	4681.3	2155.6	678.4	451.7	409.1	375.5	356.0	345.4	338.3	338.3
25°	5760.0	4445.7	1670.2	515.4	410.9	370.2	336.5	315.3	306.4	299.3	299.3
27.5°	5660.8	4142.8	1218.6	426.9	366.6	329.4	297.6	278.1	271.0	267.5	267.5
30°	5551.0	3760.3	859.0	366.6	317.0	286.9	260.4	248.0	246.2	242.7	242.7
32.5°	5457.1	3402.5	591.6	322.4	279.9	249.7	232.0	226.7	228.5	224.9	226.7
35°	5405.7	3051.8	439.3	286.9	249.7	221.4	212.5	212.5	212.5	210.8	210.8
37.5°	5427.0	2706.4	357.8	262.1	223.2	201.9	193.1	196.6	200.1	200.1	200.1
40°	5533.2	2400.0	317.0	239.1	200.1	184.2	177.1	182.4	187.7	191.3	191.3
42.5°	5667.9	2152.0	286.9	219.6	184.2	166.5	163.0	168.3	173.6	177.1	177.1
45°	5752.9	1902.3	256.8	194.8	168.3	147.0	147.0	154.1	152.3	154.1	154.1
47.5°	5791.8	1703.9	226.7	168.3	143.5	127.5	129.3	132.8	129.3	132.8	132.8
50°	5696.2	1503.8	200.1	139.9	118.7	111.6	115.1	113.4	113.4	120.4	120.4
52.5°	5520.8	1355.0	177.1	118.7	101.0	99.2	102.7	95.6	97.4	97.4	95.6
55°	5391.5	1270.0	157.6	102.7	86.8	88.6	86.8	74.4	67.3	60.2	58.4
57.5°	5327.8	1236.3	143.5	92.1	77.9	77.9	70.8	51.4	39.0	30.1	26.6
60°	5313.6	1195.6	129.3	79.7	69.1	65.5	51.4	30.1	19.5	14.2	12.4
62.5°	5179.0	1096.4	116.9	63.8	60.2	53.1	31.9	17.7	10.6	7.1	5.3
65°	4738.0	901.5	104.5	49.6	46.1	39.0	19.5	10.6	5.3	1.8	0.0
67.5°	3769.1	639.4	92.1	37.2	31.9	24.8	12.4	7.1	1.8	0.0	0.0
70°	2173.3	345.4	76.2	26.6	21.3	15.9	8.9	3.5	0.0	0.0	0.0
72.5°	726.2	161.2	58.4	17.7	15.9	12.4	5.3	1.8	0.0	0.0	0.0
75°	159.4	95.6	39.0	12.4	10.6	8.9	3.5	0.0	0.0	0.0	0.0
77.5°	60.2	67.3	19.5	8.9	7.1	5.3	1.8	0.0	0.0	0.0	0.0
80°	23.0	44.3	8.9	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	17.7	5.3	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	8.9	3.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.8	1.8	1.8	0.0	0.0	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)