

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: P638886

Luminaire Tested: GWS-SA4F-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30095.9 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

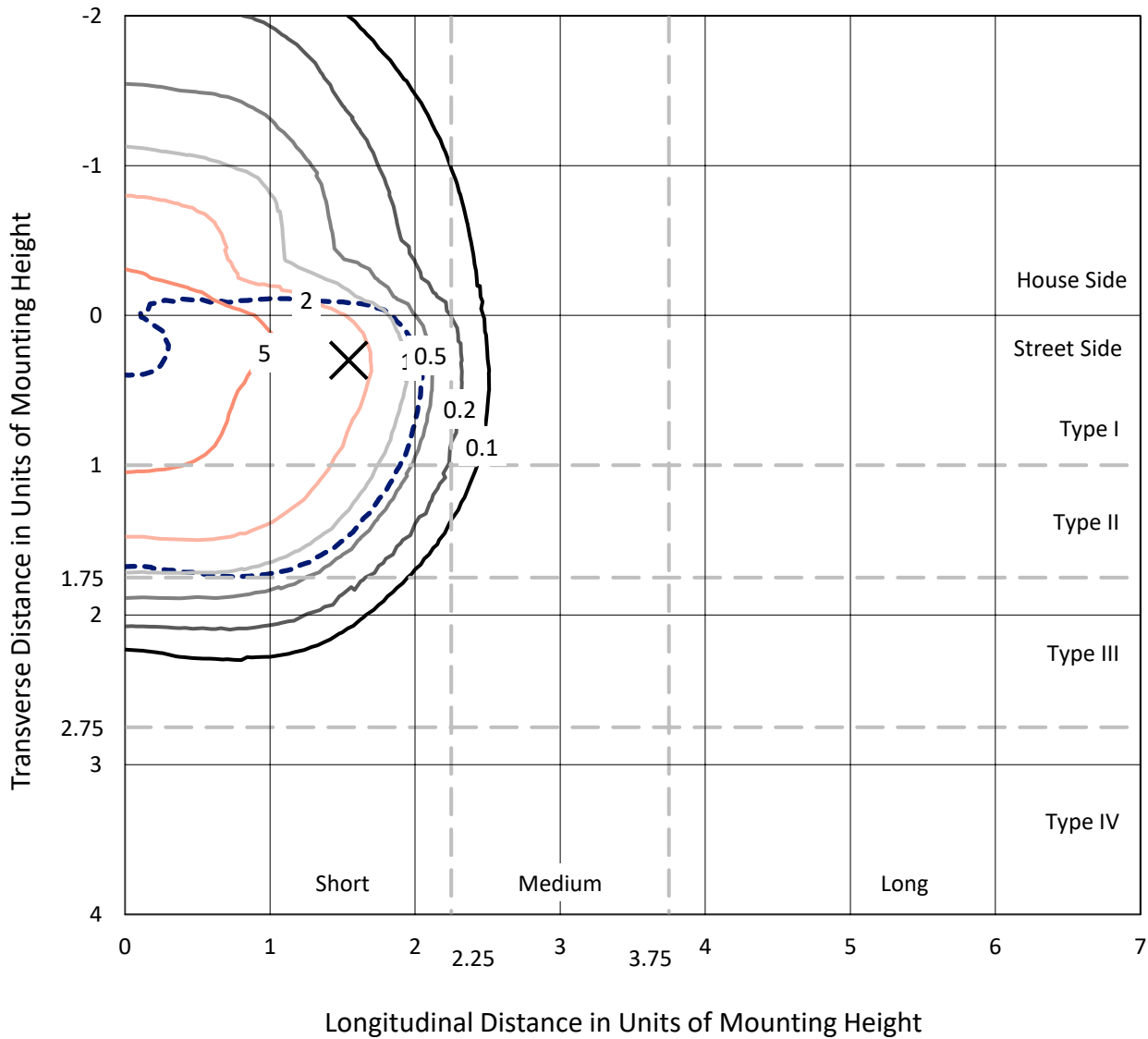
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638886
 CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

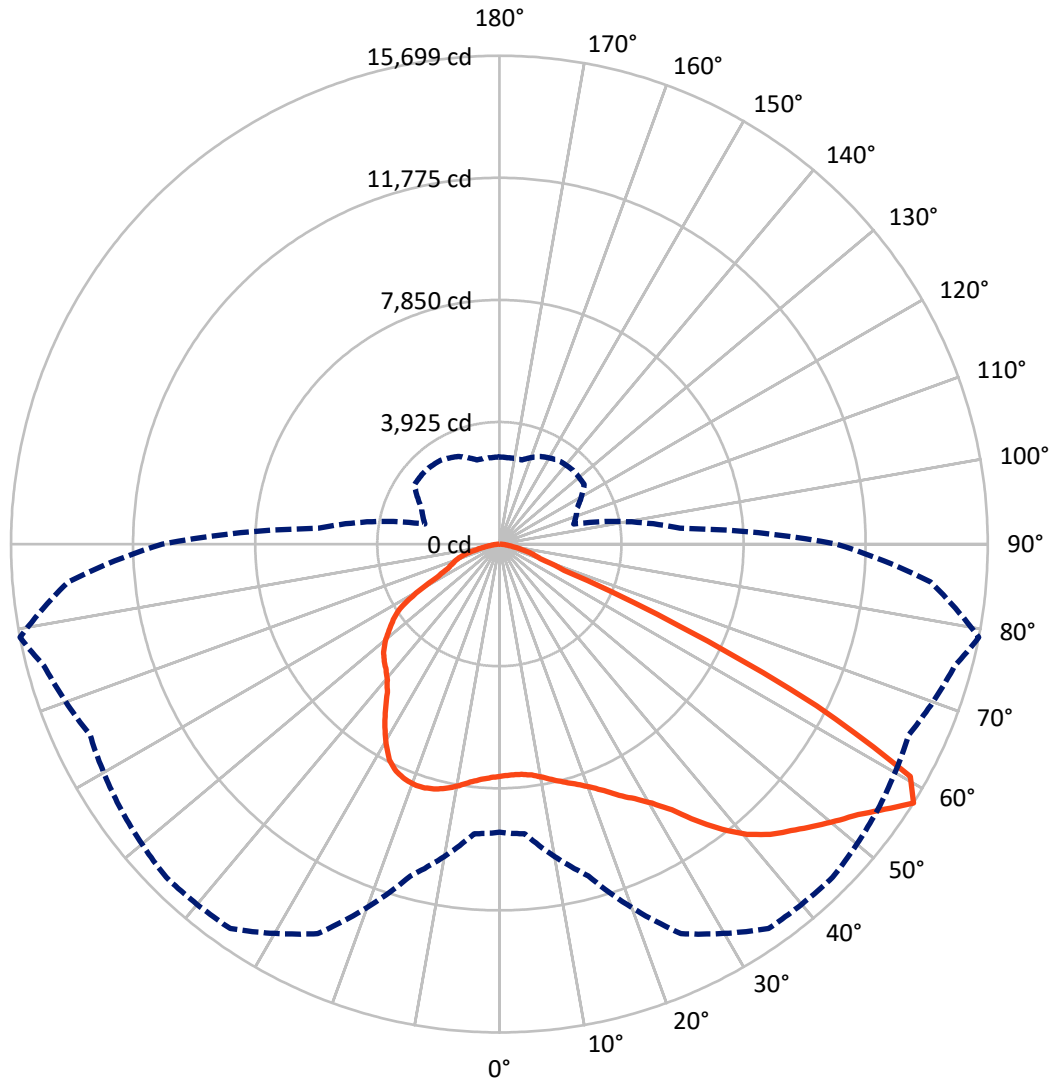
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P638886
CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638886

CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-GRSWH

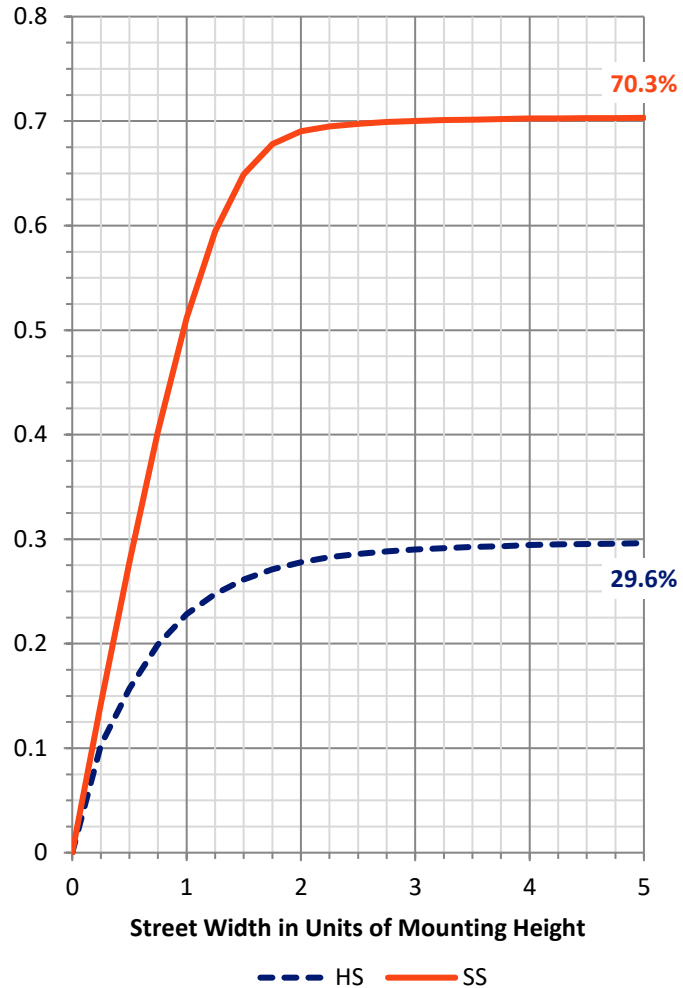
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8946.1	0.0	8946.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	21149.8	0.0	21149.8
	% Fixture	70.3	0.0	70.3
Total	Lumens	30095.9	0.0	30095.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.7	2.3
10°-20°	1919.5	6.4
20°-30°	3253.6	10.8
30°-40°	4980.1	16.5
40°-50°	6640.5	22.1
50°-60°	7669.3	25.5
60°-70°	3985.2	13.2
70°-80°	847.2	2.8
80°-90°	109.7	0.4
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°	30095.9	100.0
0°-180°	30095.9	100.0

Coefficient of Utilization





REPORT NUMBER: P638886

CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5
2.5°	7118.9	7104.1	7109.0	7128.7	7202.5	7256.7	7313.3	7365.0	7414.2	7428.9	7441.2
5°	6865.4	6838.4	6845.7	6877.7	6963.9	7054.9	7155.8	7278.8	7396.9	7436.3	7488.0
7.5°	6685.8	6680.9	6693.2	6742.4	6833.4	6919.6	7050.0	7224.7	7428.9	7495.4	7586.4
10°	6447.1	6437.3	6486.5	6587.4	6737.5	6875.3	7030.3	7237.0	7522.4	7620.9	7761.1
12.5°	6257.6	6252.7	6304.4	6444.6	6636.6	6855.6	7069.7	7301.0	7647.9	7783.3	7955.5
15°	6368.4	6346.2	6348.7	6447.1	6619.4	6877.7	7168.1	7416.6	7773.4	7945.7	8167.1
17.5°	6690.7	6651.3	6621.8	6639.0	6737.5	7005.7	7318.2	7571.7	7918.6	8120.4	8391.1
20°	7136.1	7114.0	7032.8	6978.6	7000.8	7237.0	7554.4	7790.7	8108.1	8334.5	8624.8
22.5°	7734.1	7679.9	7569.2	7483.1	7416.6	7601.2	7894.0	8098.2	8371.4	8607.6	8910.3
25°	8474.7	8396.0	8221.3	8085.9	7943.2	8132.7	8393.5	8548.6	8733.1	8952.1	9240.0
27.5°	9230.2	9163.7	8969.3	8787.3	8610.1	8728.2	9038.2	9126.8	9107.1	9267.1	9513.2
30°	10034.8	9951.2	9766.6	9569.8	9340.9	9417.2	9695.3	9739.6	9530.4	9663.3	9830.6
32.5°	10883.8	10802.6	10642.6	10413.8	10155.4	10184.9	10261.2	10303.1	10103.7	10180.0	10308.0
35°	11747.5	11671.2	11508.8	11282.4	11093.0	10913.3	10721.4	10888.7	10773.1	10920.7	10910.9
37.5°	12537.4	12461.1	12360.2	12185.5	11860.7	11506.4	11063.4	11270.1	11449.8	11636.8	11604.8
40°	13071.4	13019.7	13044.3	13017.2	12598.9	11897.6	11230.8	11457.1	11946.8	12266.7	12249.5
42.5°	13531.5	13479.9	13622.6	13725.9	13233.8	12259.3	11312.0	11528.5	12264.3	12763.8	12739.2
45°	13735.8	13721.0	13957.2	14284.5	13814.5	12643.2	11521.1	11676.1	12505.4	13145.2	13051.7
47.5°	13492.2	13543.8	14008.9	14562.6	14296.8	13098.4	11949.3	11988.7	12820.4	13558.6	13295.3
50°	13007.4	13120.6	13748.1	14570.0	14648.7	13612.7	12542.3	12443.9	13243.6	13999.1	13423.3
52.5°	12301.2	12419.3	13442.9	14513.4	14850.5	14208.2	13332.2	13192.0	13777.6	14439.5	13445.4
55°	10679.5	10839.5	12744.1	14385.4	15047.3	14749.6	14223.0	13937.6	14466.6	15044.9	13664.4
57.5°	9264.6	9348.3	11041.3	13817.0	15086.7	15148.2	14857.9	14518.3	15150.7	15699.4	13910.5
60°	6799.0	6818.7	8341.9	11432.5	13878.5	14916.9	14806.2	14301.7	14825.9	15175.3	12783.5
62.5°	3841.2	3843.7	5059.3	7630.7	10367.0	12158.4	12227.3	11782.0	11341.5	11444.8	8898.0
65°	1442.0	1577.3	2310.6	3750.1	5977.1	7177.9	7463.4	7566.7	6833.4	6378.2	4771.3
67.5°	964.6	996.6	1348.5	1929.2	2660.0	3071.0	3435.2	3445.0	2519.8	2246.6	1880.0
70°	735.8	767.7	1060.6	1380.5	1348.5	1245.1	1346.0	1309.1	1353.4	1390.3	1429.7
72.5°	548.7	580.7	821.9	974.4	809.6	797.3	903.1	1004.0	1097.5	1136.9	1198.4
75°	364.2	388.8	553.7	521.7	447.9	529.1	659.5	760.4	814.5	861.3	908.0
77.5°	231.3	248.5	295.3	238.7	248.5	310.1	383.9	474.9	526.6	573.3	598.0
80°	105.8	103.4	100.9	113.2	140.3	182.1	231.3	285.4	324.8	344.5	359.3
82.5°	41.8	46.8	51.7	61.5	76.3	98.4	130.4	167.3	199.3	204.2	216.5
85°	17.2	19.7	22.1	27.1	34.5	44.3	54.1	76.3	96.0	103.4	110.7
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	7.4	12.3	22.1	24.6	27.1
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: P638886

CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5	7458.5
2.5°	7507.7	7475.7	7529.8	7566.7	7601.2	7564.3	7552.0	7520.0	7515.1	7515.1	7532.3
5°	7576.6	7554.4	7611.0	7633.2	7630.7	7549.5	7500.3	7436.3	7404.3	7404.3	7409.2
7.5°	7699.6	7687.3	7719.3	7684.8	7606.1	7441.2	7278.8	7143.5	7052.4	7005.7	7020.5
10°	7903.9	7889.1	7862.0	7734.1	7507.7	7165.6	6833.4	6587.4	6439.7	6356.1	6361.0
12.5°	8103.2	8078.6	7982.6	7699.6	7234.5	6690.7	6255.2	5979.6	5817.2	5718.7	5696.6
15°	8322.2	8258.2	8051.5	7522.4	6789.1	6110.0	5654.7	5357.0	5182.3	5123.2	5120.8
17.5°	8531.3	8418.1	8044.1	7207.5	6255.2	5502.2	5044.5	4859.9	4830.4	4857.5	4864.9
20°	8743.0	8560.9	7962.9	6771.9	5620.3	4896.8	4660.6	4736.9	4847.6	4921.5	4938.7
22.5°	8962.0	8679.0	7778.4	6210.9	4951.0	4488.4	4586.8	4754.1	4891.9	4990.4	5000.2
25°	9208.0	8789.7	7502.8	5524.3	4414.5	4375.2	4569.6	4746.7	4894.4	5007.6	5027.3
27.5°	9348.3	8792.2	7116.4	4818.1	4168.5	4330.9	4527.7	4695.1	4842.7	4965.7	4987.9
30°	9486.1	8725.7	6503.7	4244.8	4097.1	4279.2	4456.4	4611.4	4751.7	4872.2	4899.3
32.5°	9680.5	8664.2	5797.5	3915.0	4055.3	4230.0	4375.2	4513.0	4621.2	4675.4	4690.1
35°	9921.6	8585.5	5046.9	3772.3	4028.2	4190.6	4318.6	4392.4	4252.1	4222.6	4254.6
37.5°	10258.8	8511.7	4298.9	3710.8	4011.0	4175.9	4289.0	4099.6	3927.3	3858.4	3883.0
40°	10623.0	8469.8	3792.0	3661.6	4018.4	4190.6	4166.0	3885.5	3637.0	3491.8	3486.8
42.5°	10933.0	8405.8	3467.2	3629.6	4038.1	4247.2	3998.7	3696.0	3326.9	3240.8	3243.2
45°	11142.2	8243.4	3294.9	3595.1	4055.3	4259.5	3919.9	3435.2	3171.9	3117.7	3115.3
47.5°	11228.3	7948.1	3184.2	3541.0	4052.8	4158.6	3760.0	3326.9	3063.6	3048.8	3058.7
50°	11171.7	7463.4	3071.0	3435.2	3993.8	4052.8	3575.4	3230.9	2989.8	3071.0	3130.0
52.5°	10962.5	6835.9	2935.6	3290.0	3887.9	3932.2	3481.9	3171.9	2935.6	3043.9	3090.7
55°	10908.4	6326.5	2763.4	3100.5	3730.5	3718.2	3383.5	3142.3	2898.7	2856.9	2864.3
57.5°	10837.0	5829.5	2478.0	2760.9	3331.8	3351.5	3290.0	3107.9	2802.8	2790.5	2802.8
60°	9414.7	4468.7	2209.7	2382.0	2736.3	2842.1	3184.2	3043.9	2647.7	2596.1	2593.6
62.5°	6149.4	2706.8	1966.1	2076.9	2229.4	2352.5	2903.7	2859.4	2478.0	2446.0	2468.1
65°	3307.2	1929.2	1788.9	1855.4	1939.1	2032.6	2406.6	2546.9	2239.3	2126.1	2128.5
67.5°	1690.5	1641.3	1656.1	1702.8	1766.8	1813.6	1941.5	2064.5	1909.5	1813.6	1811.1
70°	1446.9	1486.3	1508.4	1535.5	1577.3	1569.9	1582.2	1604.4	1592.1	1545.3	1542.9
72.5°	1232.8	1294.3	1299.3	1304.2	1318.9	1284.5	1262.4	1225.4	1227.9	1235.3	1237.7
75°	937.5	996.6	1011.4	1004.0	1018.7	974.4	944.9	908.0	863.7	856.3	861.3
77.5°	610.3	657.0	679.2	674.2	681.6	647.2	632.4	593.0	541.4	521.7	521.7
80°	369.1	396.2	413.4	418.3	425.7	401.1	376.5	342.0	319.9	297.7	297.7
82.5°	223.9	241.2	253.5	253.5	260.8	233.8	214.1	189.5	179.6	159.9	159.9
85°	113.2	125.5	130.4	128.0	123.0	100.9	93.5	81.2	76.3	66.4	66.4
87.5°	27.1	34.5	34.5	24.6	24.6	12.3	7.4	2.5	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)