

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: P633735

Luminaire Tested: GWS-SA2F-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633735
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-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16293.3 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

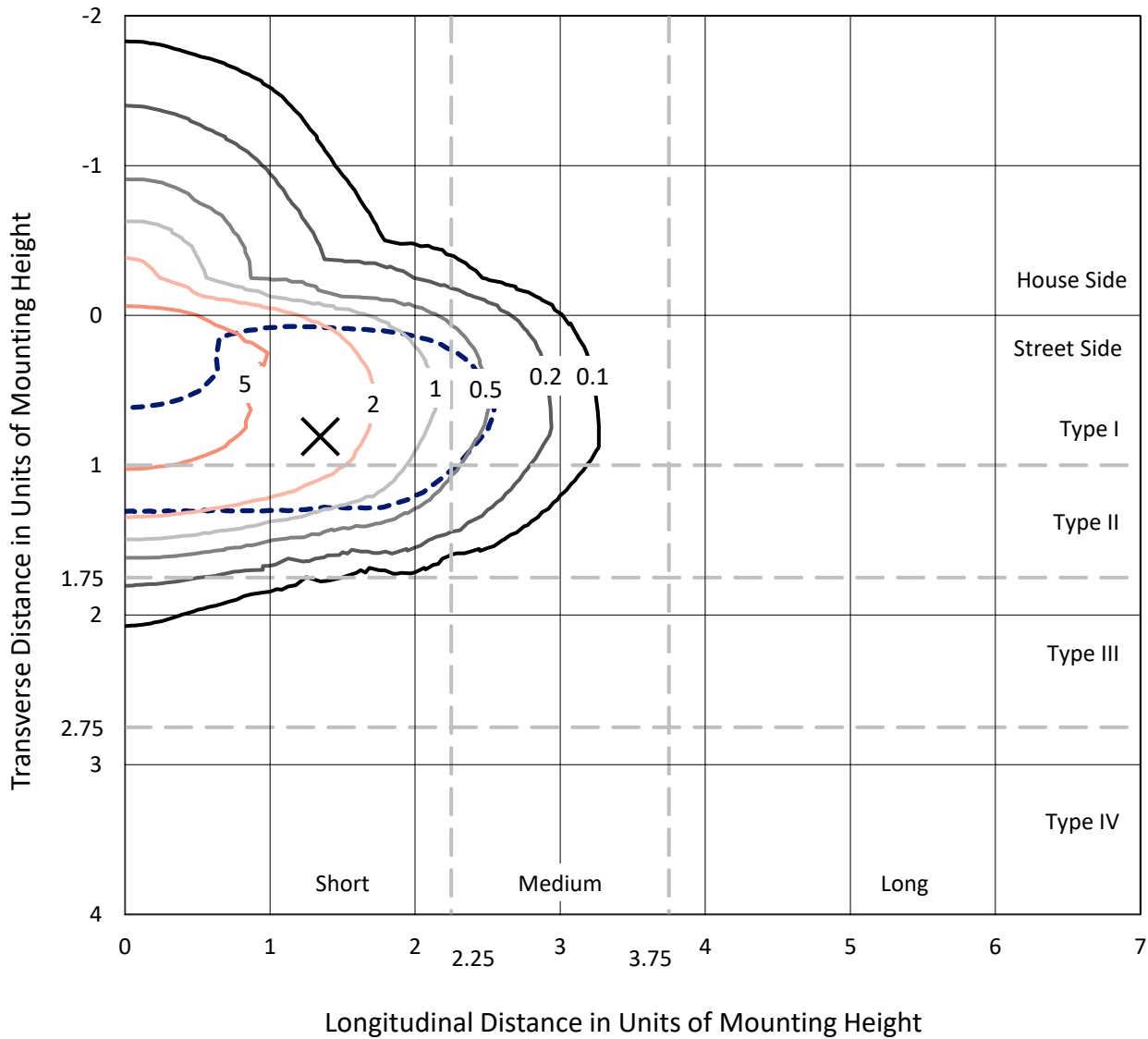
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

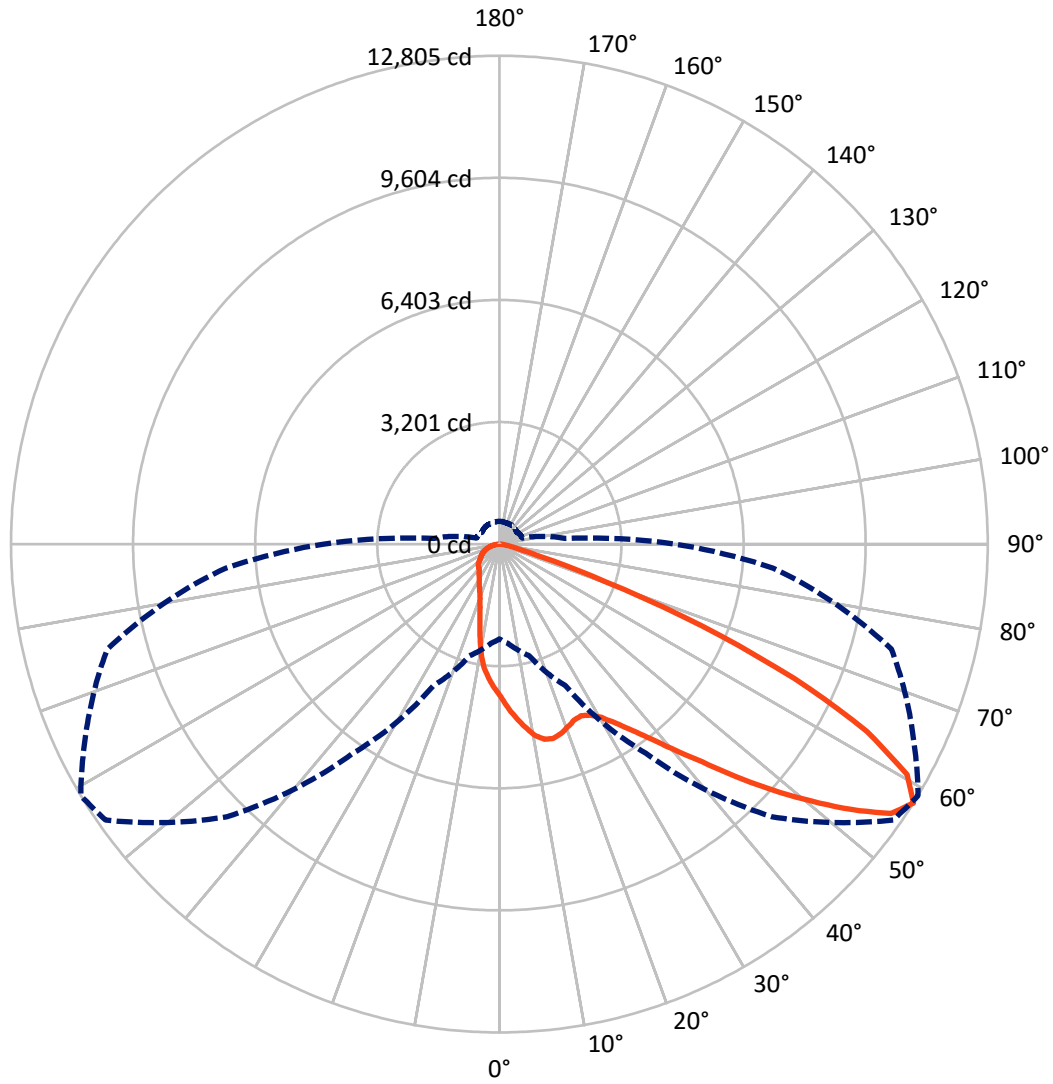
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	2528.6	0.0	2528.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13764.7	0.0	13764.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	16293.3	0.0	16293.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	2.3
10°-20°	941.1	5.8
20°-30°	1525.5	9.4
30°-40°	2453.9	15.1
40°-50°	3810.7	23.4
50°-60°	4104.7	25.2
60°-70°	2382.2	14.6
70°-80°	621.9	3.8
80°-90°	81.9	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°	16293.3	100.0
0°-180°	16293.3	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7
2.5°	4536.5	4498.6	4525.0	4478.0	4458.5	4406.9	4340.3	4295.6	4226.8	4137.3	4059.3
5°	4987.3	4960.9	4966.6	4916.2	4871.4	4785.4	4648.9	4573.2	4456.2	4276.1	4108.6
7.5°	4973.5	5004.5	5021.7	5065.3	5077.9	5069.9	4947.1	4841.6	4713.1	4442.4	4190.1
10°	4458.5	4517.0	4569.8	4718.9	4900.1	5129.5	5158.2	5095.1	4965.5	4654.6	4287.6
12.5°	3897.6	3942.3	3989.4	4168.3	4445.9	4904.7	5215.5	5254.5	5202.9	4864.5	4397.7
15°	3622.3	3643.0	3687.7	3805.8	4027.2	4536.5	5115.7	5286.6	5379.6	5087.1	4521.6
17.5°	3610.8	3620.0	3641.8	3704.9	3858.6	4252.0	4935.7	5222.4	5518.3	5322.2	4666.1
20°	3848.3	3824.2	3810.4	3809.3	3885.0	4156.8	4761.3	5119.2	5583.7	5563.1	4820.9
22.5°	4177.5	4185.5	4155.7	4082.3	4073.1	4224.5	4674.1	5014.8	5603.2	5776.4	4964.3
25°	4644.3	4684.5	4596.1	4456.2	4387.4	4420.6	4728.0	4982.7	5600.9	5954.2	5053.8
27.5°	5189.1	5220.1	5130.6	4947.1	4804.9	4724.6	4888.6	5077.9	5620.4	6107.9	5107.7
30°	5809.7	5820.0	5697.3	5504.6	5297.0	5124.9	5155.9	5274.0	5720.2	6309.8	5170.8
32.5°	6567.9	6611.5	6425.6	6120.5	5830.3	5610.1	5514.9	5590.6	5935.9	6548.4	5268.3
35°	7530.2	7545.1	7308.8	6871.8	6461.2	6156.1	5956.5	5996.7	6263.9	6882.2	5415.1
37.5°	8437.5	8452.4	8201.2	7795.2	7207.9	6790.4	6501.3	6483.0	6683.7	7353.6	5654.8
40°	9013.3	9055.8	8943.4	8688.7	8127.8	7564.6	7172.4	7109.3	7234.3	7930.5	5988.6
42.5°	9323.0	9341.4	9339.1	9372.3	9038.6	8478.8	7929.4	7803.2	7887.0	8553.4	6325.8
45°	9325.3	9371.2	9493.9	9814.0	9828.9	9480.2	8886.0	8688.7	8611.9	9180.8	6678.0
47.5°	8907.8	8957.1	9294.4	9924.1	10388.6	10467.8	10031.9	9636.2	9312.7	9721.0	6967.0
50°	7643.8	7767.7	8410.0	9523.8	10498.7	11259.2	11125.0	10588.2	9935.5	10138.6	7148.3
52.5°	6546.1	6541.5	6937.2	8392.8	10038.8	11607.9	12182.6	11567.8	10551.5	10403.5	7194.1
55°	4793.4	4819.8	5224.7	6418.8	8811.5	11270.7	12764.1	12469.3	11258.1	10544.6	7175.8
57.5°	2485.6	2616.4	3031.6	4096.0	6695.2	10109.9	12609.3	12805.4	11976.1	10644.4	7199.9
60°	1256.0	1230.8	1379.9	1955.7	3879.2	7896.1	11654.9	12280.1	12105.7	10722.4	7214.8
62.5°	838.5	831.6	790.3	906.2	1585.2	4676.4	9935.5	10811.9	11205.3	10538.9	7024.4
65°	726.1	712.3	636.6	632.0	769.7	1939.6	7282.5	8499.5	9261.1	9723.3	6569.0
67.5°	653.8	633.2	556.3	518.5	552.9	852.2	4104.1	5700.7	6838.6	8223.0	5571.1
70°	583.8	573.5	496.7	441.6	438.2	519.6	1511.8	2942.1	4184.4	5610.1	4073.1
72.5°	523.0	504.7	439.3	386.5	360.2	368.2	656.1	1133.3	2165.6	3499.6	2436.3
75°	453.1	439.3	382.0	329.2	297.1	269.6	400.3	524.2	987.6	1663.2	1150.5
77.5°	349.8	340.7	301.7	261.5	243.2	200.7	243.2	330.3	456.5	700.8	598.7
80°	203.0	208.8	224.8	204.2	178.9	143.4	158.3	190.4	274.1	379.7	339.5
82.5°	102.1	109.0	145.7	118.1	106.7	83.7	94.1	112.4	143.4	209.9	133.1
85°	8.0	8.0	26.4	29.8	36.7	29.8	37.9	45.9	65.4	83.7	44.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.7	10.3	19.5	12.6
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°	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7	3999.7
2.5°	4006.6	3948.1	3878.1	3820.7	3732.4	3685.4	3625.7	3552.3	3522.5	3508.8	3500.7
5°	4014.6	3911.4	3762.2	3624.6	3472.0	3351.6	3217.4	3077.5	2997.2	2977.7	2963.9
7.5°	4044.4	3899.9	3662.5	3435.3	3152.0	2889.4	2633.6	2380.1	2250.5	2201.1	2196.6
10°	4085.7	3895.3	3561.5	3184.1	2705.8	2290.6	1991.2	1792.8	1709.1	1681.5	1672.4
12.5°	4137.3	3891.9	3428.5	2835.4	2190.8	1798.5	1627.6	1595.5	1607.0	1604.7	1604.7
15°	4202.7	3896.4	3267.9	2440.9	1772.2	1561.1	1564.5	1602.4	1638.0	1643.7	1643.7
17.5°	4273.8	3891.9	3035.0	2045.1	1521.0	1504.9	1557.7	1610.4	1642.5	1647.1	1647.1
20°	4350.7	3870.1	2741.4	1672.4	1410.8	1469.3	1526.7	1568.0	1587.5	1592.1	1592.1
22.5°	4396.6	3808.1	2422.5	1415.4	1340.9	1413.1	1451.0	1493.4	1495.7	1459.0	1457.9
25°	4389.7	3692.3	2058.9	1250.3	1266.3	1329.4	1377.6	1347.8	1311.1	1290.4	1287.0
27.5°	4346.1	3517.9	1688.4	1125.2	1178.0	1249.1	1234.2	1209.0	1199.8	1176.8	1174.6
30°	4291.0	3303.4	1355.8	1027.7	1086.2	1151.6	1128.7	1126.4	1117.2	1092.0	1092.0
32.5°	4238.3	3082.1	1104.6	955.5	1027.7	1032.3	1064.4	1066.7	1062.1	1018.6	1014.0
35°	4223.3	2860.7	934.8	898.1	970.4	968.1	1014.0	1012.8	933.7	872.9	871.7
37.5°	4268.1	2635.9	833.9	851.1	891.2	921.1	957.8	891.2	864.9	828.2	825.9
40°	4363.3	2428.3	782.3	823.6	840.8	884.4	827.0	831.6	824.7	797.2	793.7
42.5°	4489.5	2251.6	753.6	814.4	812.1	823.6	760.5	778.8	789.2	768.5	765.1
45°	4611.0	2097.9	738.7	780.0	791.4	724.9	712.3	729.5	745.6	737.5	734.1
47.5°	4700.5	1964.9	730.7	732.9	765.1	691.7	671.0	679.0	698.5	702.0	700.8
50°	4728.0	1851.3	721.5	694.0	687.1	658.4	642.3	640.0	663.0	679.0	681.3
52.5°	4675.3	1750.4	697.4	659.5	626.3	630.9	625.1	613.7	636.6	658.4	660.7
55°	4597.3	1693.0	659.5	626.3	587.3	605.6	607.9	597.6	612.5	627.4	627.4
57.5°	4603.0	1726.3	622.8	595.3	552.9	577.0	589.6	585.0	585.0	596.5	597.6
60°	4640.9	1774.4	598.7	556.3	518.5	543.7	572.4	567.8	557.5	572.4	572.4
62.5°	4531.9	1710.2	582.7	518.5	481.8	511.6	546.0	543.7	532.2	556.3	558.6
65°	4210.7	1538.2	564.3	471.4	445.0	479.5	509.3	517.3	507.0	539.1	544.8
67.5°	3529.4	1293.8	528.8	426.7	408.3	440.5	469.1	480.6	472.6	510.4	515.0
70°	2631.3	1047.2	472.6	377.4	363.6	392.3	418.7	423.3	424.4	469.1	473.7
72.5°	1678.1	814.4	398.0	322.3	312.0	333.8	353.3	371.6	379.7	422.1	421.0
75°	936.0	605.6	320.0	273.0	254.6	271.8	294.8	316.6	339.5	401.5	408.3
77.5°	539.1	425.5	253.5	219.1	197.3	215.6	235.1	266.1	334.9	388.8	382.0
80°	304.0	276.4	191.6	160.6	146.8	160.6	175.5	234.0	263.8	286.8	290.2
82.5°	142.2	154.8	130.8	98.6	98.6	107.8	121.6	181.2	199.6	162.9	142.2
85°	51.6	70.0	64.2	50.5	44.7	43.6	75.7	103.2	64.2	57.4	49.3
87.5°	13.8	19.5	18.4	12.6	6.9	5.7	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)