

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: HALO

Report Number: P670612

Luminaire Tested: MWP20FSUNVDBZ-15W-5000K

Issue Date: 4/5/2023

Test Information

Test Method: LM-79-2019
Report Number: P670612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-07-24)
Test Lab: INNOVATION CENTER
Issue Date: 4/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: MWP20FSUNVDBZ-15W-5000K
Description: MINI WALL PACK
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.51' x L: 0.44' x H: 0.31')
IES Classification: Type IV - Short
BUG Rating: B1 - U3 - G2

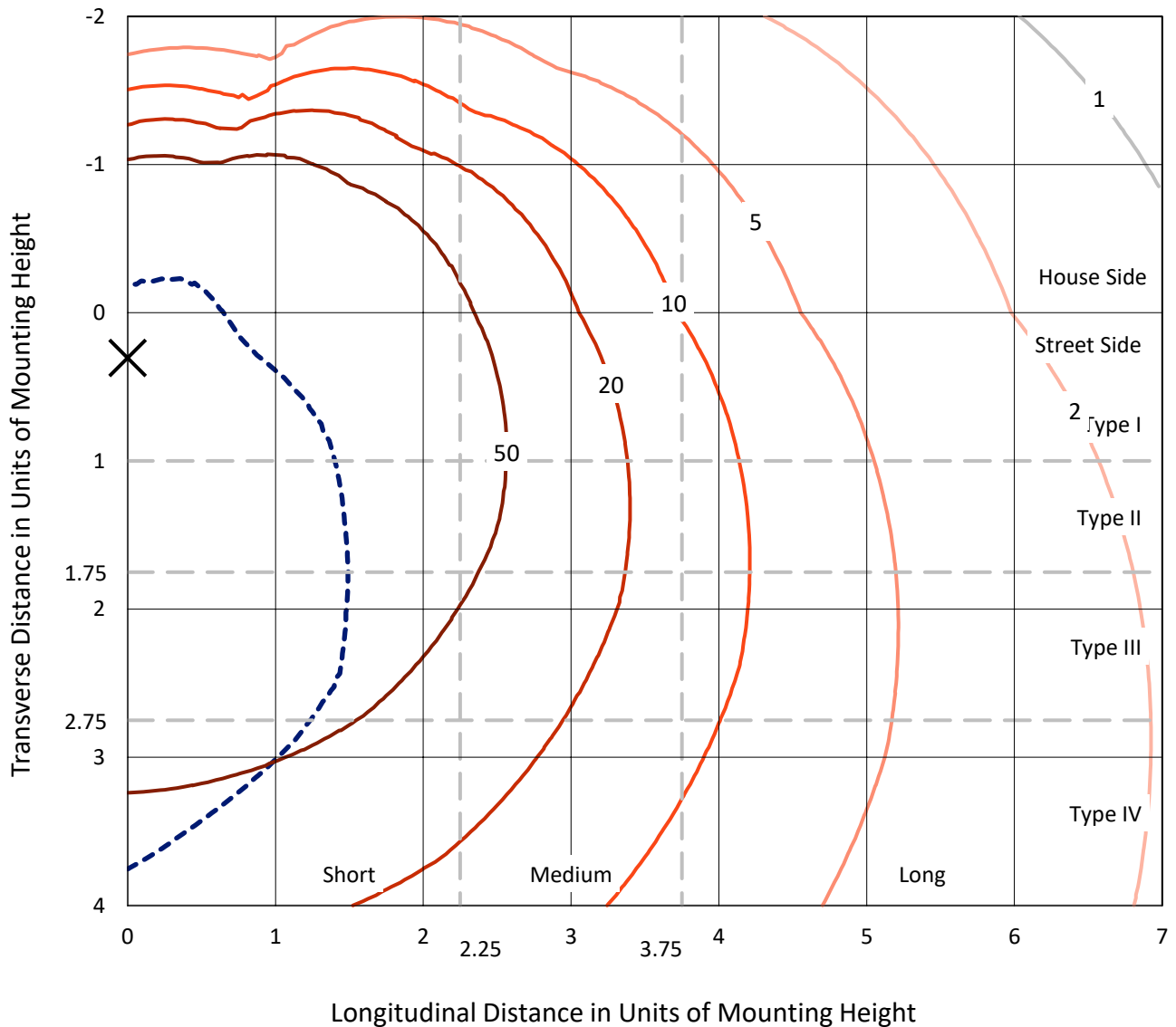
Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

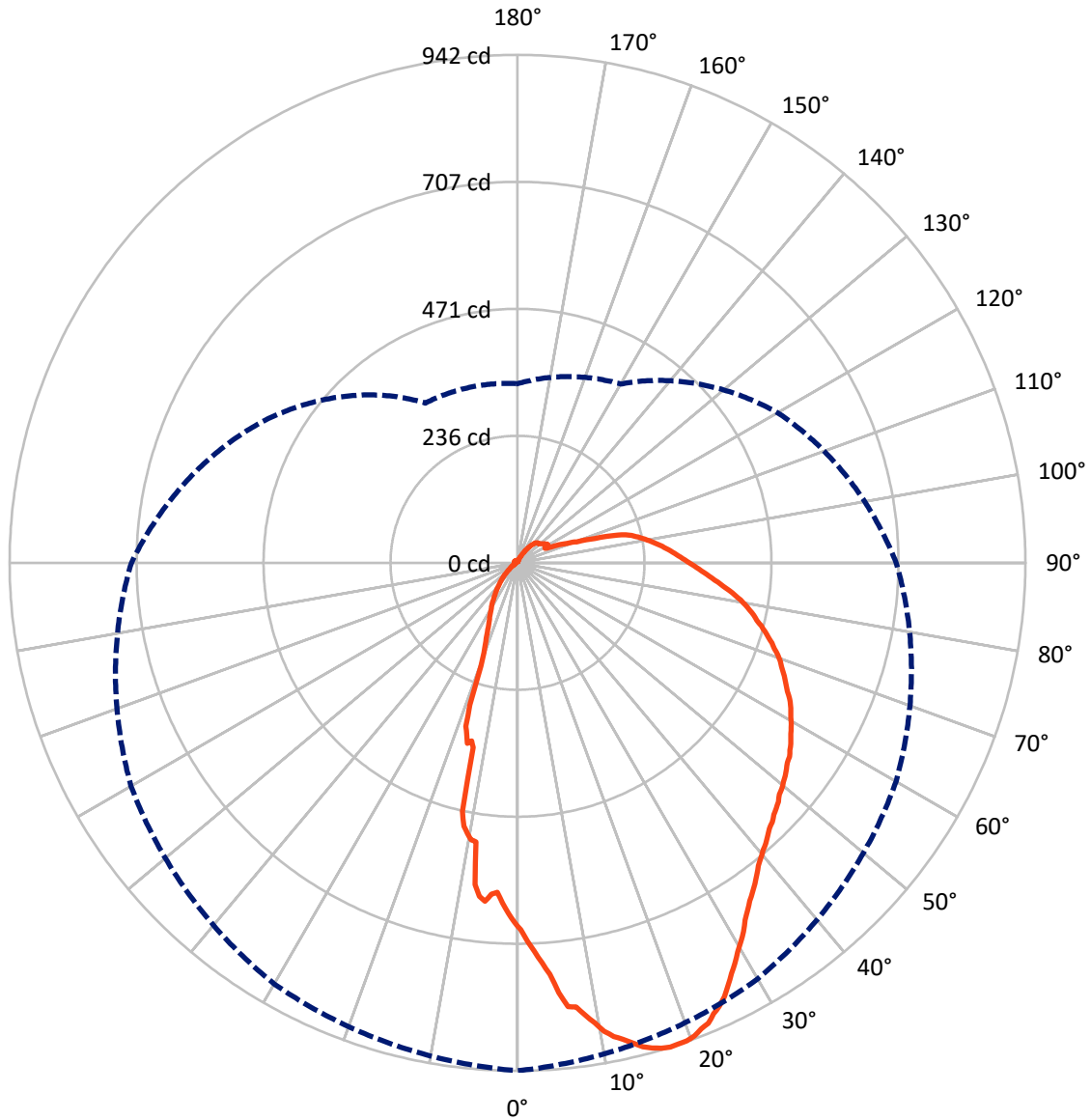
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 3388 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 17-Deg Vertical

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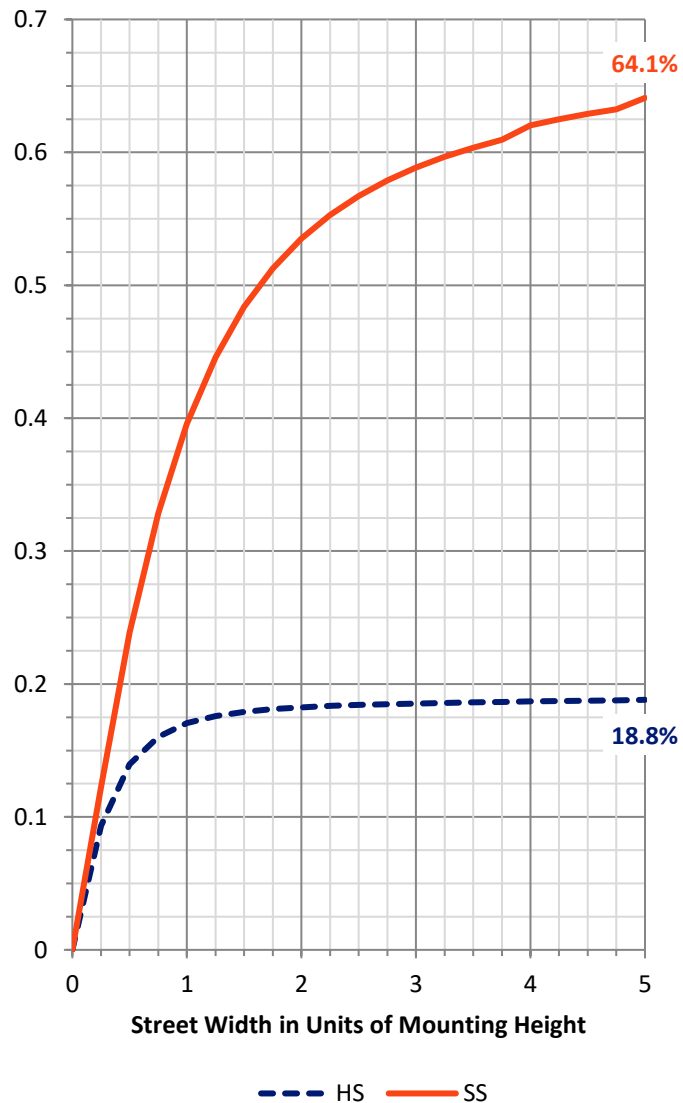
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	425.2	39.1	464.3
	% Fixture	19.2	1.8	21.0
Street Side	Lumens	1511.4	237.3	1748.7
	% Fixture	68.3	10.7	79.0
Total	Lumens	1936.6	276.4	2213.0
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.1
10°-20°	191.9	8.7
20°-30°	254.1	11.5
30°-40°	264.1	11.9
40°-50°	271.0	12.2
50°-60°	270.6	12.2
60°-70°	248.6	11.2
70°-80°	208.2	9.4
80°-90°	160.6	7.3
90°-100°	119.8	5.4
100°-110°	74.6	3.4
110°-120°	34.7	1.6
120°-130°	22.0	1.0
130°-140°	13.9	0.6
140°-150°	7.3	0.3
150°-160°	2.7	0.1
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-90°	1936.6	87.5
0°-180°	2213.0	100.0

Coefficient of Utilization

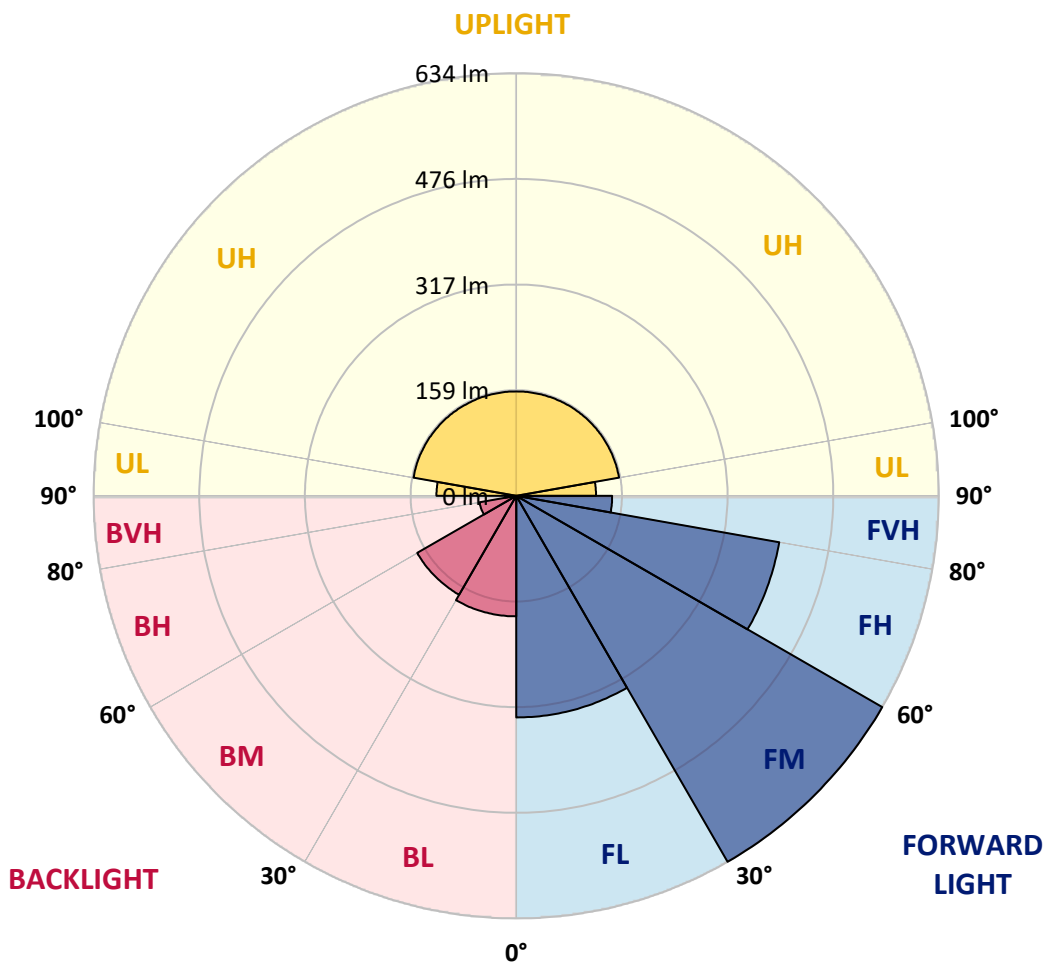


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.6	15.0			
FM (30°-60°)	634.2	28.7			
FH (60°-80°)	400.8	18.1			G0/660
FVH (80°-90°)	143.9	6.5			G2/225
BL (0°-30°)	180.9	8.2	B1/500		
BM (30°-60°)	171.5	7.8	B0/220		
BH (60°-80°)	56.0	2.5	B0/110		G0/110
BVH (80°-90°)	16.7	0.8			G1/100
UL (90°-100°)	119.8	5.4		U3/500	
UH (100°-180°)	156.6	7.1		U3/500	

BUG Rating: B1-U3-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	680.4	680.4	680.4	680.4	680.4	680.4	680.4	680.4	680.4	680.4	680.4
1°	702.4	690.8	674.4	689.3	678.9	670.7	666.3	659.2	654.8	693.0	699.2
2°	721.2	710.8	688.0	691.5	669.1	656.4	650.1	644.3	644.3	695.5	713.2
3°	743.4	729.6	703.9	697.2	663.4	641.0	631.9	629.3	635.1	701.6	727.6
4°	765.5	750.7	720.2	699.6	657.0	625.1	612.1	610.0	623.6	709.5	742.8
5°	801.1	771.7	735.1	703.9	649.8	608.4	616.7	592.9	615.1	715.1	759.1
6°	828.7	812.2	751.1	710.3	641.5	624.7	630.7	606.8	606.4	722.6	776.1
7°	830.7	828.5	764.3	713.9	634.1	637.1	622.5	614.0	598.2	729.4	788.5
8°	848.2	830.5	779.0	719.3	625.7	628.3	602.0	608.9	589.5	730.6	801.4
9°	864.9	841.8	792.9	722.6	623.9	618.4	523.2	585.9	584.0	736.2	815.5
10°	883.6	855.8	814.7	722.4	641.8	557.0	520.9	550.5	600.7	738.8	828.7
11°	896.6	869.2	822.3	724.0	643.5	534.1	510.3	496.5	615.9	740.3	845.9
12°	905.4	876.2	824.2	724.2	634.3	541.6	498.4	508.5	605.1	739.5	849.3
13°	916.2	882.5	820.8	723.6	622.7	520.9	472.0	488.0	597.0	740.1	845.5
14°	927.4	887.2	819.0	720.9	603.1	495.7	352.0	459.9	569.6	736.6	838.7
15°	933.7	892.0	819.0	719.0	593.2	470.1	340.9	419.0	557.7	730.8	833.8
16°	939.0	893.4	816.6	710.4	573.0	383.7	347.4	356.8	538.9	723.7	833.6
17°	942.1	890.9	810.7	702.3	556.9	382.9	332.2	342.1	534.4	716.2	827.8
18°	941.0	893.0	805.5	693.9	548.7	373.0	318.3	344.3	529.3	706.0	818.9
19°	940.6	887.5	795.3	682.3	542.6	352.2	278.4	326.3	523.6	693.4	809.1
20°	937.0	883.4	784.3	671.7	530.5	332.4	203.2	302.3	517.5	679.1	798.6
21°	929.1	873.9	772.5	658.5	519.1	306.8	177.5	271.1	511.4	668.2	785.8
22°	924.6	866.0	757.4	641.3	508.2	271.6	163.5	239.0	500.8	652.1	770.9
23°	912.0	853.2	745.7	627.8	492.9	240.6	151.3	221.2	489.7	632.6	756.3
24°	903.6	844.2	729.7	610.5	476.9	223.8	140.5	207.2	477.2	618.3	742.6
25°	891.5	831.3	713.8	594.1	462.7	209.1	131.1	195.2	462.7	600.8	725.9
26°	875.9	818.9	700.3	577.0	445.8	194.7	123.2	182.8	444.3	581.4	711.1
27°	859.1	804.2	684.6	560.7	427.3	179.9	116.5	169.9	425.5	562.1	694.9
28°	845.1	790.4	669.0	543.5	408.1	166.6	110.6	157.0	407.1	545.5	679.2
29°	829.2	774.9	655.4	526.8	391.5	153.3	105.0	144.5	388.9	528.2	665.8
30°	816.3	760.1	641.0	510.7	374.5	142.0	99.5	134.8	370.7	510.7	649.5
31°	802.3	745.5	628.1	495.0	356.2	131.9	94.8	126.6	352.6	494.4	636.9
32°	785.5	733.0	614.9	479.1	339.4	123.1	89.9	119.4	334.6	479.0	624.2
33°	773.5	716.8	603.2	463.1	322.9	115.7	85.4	113.3	316.3	463.9	611.8
34°	760.8	704.4	592.4	450.3	308.4	109.1	80.6	107.4	299.0	449.4	599.0
35°	750.5	693.8	580.3	434.7	293.5	103.2	76.0	102.0	282.3	436.1	586.4
36°	740.1	683.9	570.2	423.1	279.3	97.8	71.6	96.6	268.2	423.8	579.3
37°	729.3	672.5	563.3	412.7	265.9	92.7	67.5	91.4	254.3	412.2	570.1
38°	717.7	663.5	554.6	402.5	253.5	87.8	63.3	86.4	241.9	403.5	560.8
39°	709.6	655.5	548.0	393.9	242.6	83.1	59.5	81.3	231.5	396.4	555.5
40°	701.5	648.9	542.7	387.2	232.1	78.5	55.8	76.3	222.5	389.0	549.8
41°	694.8	641.0	536.5	381.5	223.0	74.0	51.9	71.7	214.0	382.5	542.8
42°	687.1	635.7	532.1	374.4	215.0	69.5	48.6	67.0	206.5	376.6	538.3
43°	678.7	629.0	528.5	369.8	207.6	65.5	45.2	62.8	199.4	371.7	533.9
44°	674.3	623.5	524.2	363.9	201.2	61.2	42.6	58.7	192.5	367.3	531.9



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CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	666.8	618.2	522.6	359.4	194.0	57.7	39.6	55.2	185.4	360.6	526.0
46°	661.6	613.8	517.5	353.6	187.2	53.8	36.8	51.7	179.2	354.0	522.5
47°	656.3	609.2	515.6	347.1	180.5	50.1	33.9	48.3	172.4	349.5	516.5
48°	648.2	604.4	511.4	342.1	173.5	46.8	30.9	45.1	166.3	342.8	512.5
49°	644.6	599.4	508.3	337.1	167.8	42.3	27.6	41.7	159.8	337.2	508.1
50°	639.2	596.0	505.1	331.5	160.5	39.4	24.9	38.8	154.3	331.2	503.0
51°	634.6	591.3	497.9	324.6	154.4	35.5	22.3	35.6	148.4	324.0	500.2
52°	628.6	586.9	494.3	318.9	148.2	32.4	20.4	32.9	141.9	317.2	495.3
53°	622.7	582.2	489.7	312.5	141.7	29.4	18.6	30.4	135.8	310.8	489.2
54°	619.6	577.5	483.4	305.7	135.8	26.9	17.4	28.2	130.1	302.8	484.7
55°	613.2	572.5	477.0	298.7	129.5	24.3	16.2	25.9	124.3	296.3	477.5
56°	607.7	567.8	471.6	290.5	123.7	22.2	15.3	24.1	118.5	288.9	472.8
57°	600.8	561.9	465.5	283.5	117.5	20.4	14.0	22.3	112.7	280.6	464.5
58°	595.3	555.5	460.4	276.7	111.9	18.5	12.7	20.6	107.2	272.6	456.9
59°	589.3	552.5	453.7	269.7	106.0	17.2	11.5	19.1	101.8	264.7	449.2
60°	582.5	545.4	447.5	262.4	100.3	15.9	10.3	17.7	97.0	256.8	442.2
61°	576.6	539.3	440.5	254.6	94.9	14.9	9.3	16.4	91.8	247.7	435.6
62°	571.1	533.0	433.8	247.5	89.9	14.1	8.3	15.3	87.5	239.9	429.3
63°	564.1	526.5	426.2	239.5	85.3	13.3	7.5	14.4	82.9	231.9	423.2
64°	554.7	520.7	417.5	231.5	80.5	12.5	6.7	13.5	78.4	223.1	415.2
65°	547.8	513.2	410.3	223.0	75.9	11.9	6.1	12.7	74.2	214.5	408.0
66°	541.0	506.2	402.3	212.9	71.9	11.3	5.5	11.9	70.4	206.4	401.1
67°	533.6	498.7	394.5	206.0	68.3	10.7	5.1	11.1	66.9	197.8	392.4
68°	526.5	489.5	385.6	197.1	64.8	10.0	4.8	10.5	63.5	189.7	383.8
69°	520.2	481.9	376.3	188.9	61.8	9.4	4.7	9.9	60.5	180.9	375.8
70°	512.2	472.8	366.4	180.3	59.0	9.0	4.5	9.5	58.0	173.6	367.6
71°	502.7	463.4	356.5	172.3	56.5	8.7	4.3	9.3	55.7	165.8	357.1
72°	494.7	456.3	346.7	164.4	54.2	8.5	4.2	9.1	53.5	158.0	346.8
73°	485.3	446.9	337.2	156.4	52.2	8.3	4.0	8.9	51.5	150.2	336.4
74°	475.8	437.4	328.4	149.1	50.1	8.2	3.9	8.8	49.5	143.7	326.4
75°	467.2	429.4	318.8	142.2	48.3	8.0	3.8	8.7	47.7	137.2	316.9
76°	456.4	420.3	309.4	136.0	46.7	7.9	3.7	8.5	46.2	130.8	307.1
77°	449.0	412.3	301.0	129.9	45.2	7.8	3.6	8.4	44.6	125.2	298.5
78°	439.7	402.3	292.6	124.5	43.7	7.7	3.6	8.3	43.2	119.8	291.0
79°	429.8	394.4	283.5	118.7	42.3	7.6	3.5	8.2	42.1	114.8	281.4
80°	419.7	384.2	275.4	113.8	41.2	7.5	3.5	8.2	40.9	109.5	272.7
81°	408.1	373.9	266.2	108.8	40.0	7.5	3.5	8.1	39.9	105.3	263.3
82°	397.0	362.5	257.5	104.2	39.1	7.5	3.5	8.1	39.0	100.9	254.0
83°	384.6	352.0	248.5	100.1	38.2	7.5	3.5	8.1	38.2	96.8	244.8
84°	373.4	342.4	239.3	96.0	37.2	7.5	3.5	8.2	37.3	93.2	236.2
85°	361.8	331.3	230.6	92.3	36.3	7.5	3.6	8.2	36.6	89.8	229.0
86°	351.6	321.0	223.1	88.7	35.4	7.5	3.7	8.2	35.7	86.4	220.6
87°	341.5	311.7	215.9	85.1	34.6	7.5	3.7	8.3	35.0	83.2	213.9
88°	332.1	302.8	208.4	81.9	33.9	7.5	3.8	8.3	34.3	80.0	206.2
89°	323.7	295.2	202.5	78.7	33.1	7.6	3.9	8.4	33.6	76.8	199.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	314.4	287.3	195.6	75.7	32.2	7.7	4.0	8.4	32.8	73.8	194.0
91°	306.6	278.8	189.7	72.9	31.5	7.7	4.1	8.5	32.3	71.4	188.3
92°	298.8	271.6	184.3	70.3	30.9	7.8	4.2	8.6	31.8	68.9	182.7
93°	291.8	264.7	178.3	67.8	30.2	7.9	4.3	8.7	30.9	66.6	176.5
94°	284.8	257.1	173.1	65.4	29.3	7.7	4.3	8.5	30.1	64.3	171.6
95°	276.9	250.5	167.3	63.0	28.7	7.4	4.2	8.3	29.6	61.9	166.4
96°	270.0	243.5	161.9	60.9	28.1	7.4	4.2	8.4	28.9	59.5	160.6
97°	262.8	236.9	156.3	58.7	27.6	7.3	4.3	8.4	28.3	57.4	154.9
98°	255.3	230.1	150.9	56.4	27.0	7.3	4.3	8.4	27.9	55.2	149.7
99°	247.9	224.1	145.6	54.3	26.4	7.3	4.4	8.4	27.3	53.1	144.4
100°	240.7	216.4	140.1	52.1	25.8	7.2	4.5	8.4	26.8	50.9	139.1
101°	232.9	209.8	134.4	49.8	25.3	7.2	4.5	8.3	26.2	48.7	133.8
102°	225.3	200.6	128.5	47.7	24.7	7.1	4.6	8.2	25.6	46.6	128.6
103°	217.6	184.6	120.9	45.4	24.1	7.2	4.7	8.0	24.9	44.5	123.3
104°	207.3	166.0	112.2	43.0	23.4	7.2	4.8	8.0	24.3	42.3	117.7
105°	192.2	144.9	100.8	40.6	22.6	7.3	4.9	8.1	23.6	40.2	112.3
106°	172.4	129.2	89.5	38.4	21.7	7.3	5.1	8.1	22.9	38.0	106.5
107°	150.7	118.6	79.6	35.6	20.8	7.2	5.3	8.0	22.0	35.4	100.0
108°	134.6	112.8	70.0	33.4	19.9	7.1	5.6	8.0	21.3	33.2	93.1
109°	116.5	107.5	63.5	30.7	19.0	7.1	5.9	8.0	20.5	31.2	84.5
110°	108.9	99.7	58.8	28.3	18.1	7.0	6.1	7.9	19.8	29.4	77.3
111°	98.3	87.6	56.1	26.1	17.2	6.9	6.2	7.8	19.0	27.9	71.0
112°	90.8	77.9	54.3	24.4	16.4	6.9	6.3	7.8	18.2	26.5	66.3
113°	83.9	69.9	52.0	22.5	15.6	6.8	6.3	7.8	17.6	25.2	62.3
114°	75.6	67.4	50.3	21.1	14.9	6.7	6.4	7.7	16.9	23.9	58.3
115°	67.4	68.2	48.8	19.9	14.1	6.6	6.3	7.6	16.3	22.6	53.7
116°	61.6	71.6	46.6	18.8	13.4	6.5	6.2	7.5	15.7	21.4	49.7
117°	57.6	74.3	43.7	17.7	12.8	6.4	6.2	7.4	15.2	20.3	45.3
118°	57.9	73.8	40.4	16.8	12.3	6.4	6.1	7.4	14.6	19.4	41.4
119°	64.5	72.2	37.4	16.0	11.8	6.5	6.0	7.3	14.2	18.7	38.0
120°	65.5	70.3	34.4	15.2	11.4	6.5	5.8	7.2	13.8	18.0	34.9
121°	65.7	67.9	31.9	14.7	11.1	6.4	5.5	7.1	13.3	17.5	32.3
122°	65.0	65.5	29.5	14.3	10.5	6.3	5.3	7.0	12.8	17.1	30.0
123°	63.3	63.0	27.5	13.8	10.1	6.3	5.2	6.9	12.4	16.6	27.9
124°	61.7	60.7	25.4	13.5	9.6	6.1	5.4	6.8	12.1	16.1	25.9
125°	60.8	58.8	23.6	13.1	9.2	6.0	5.4	6.7	11.8	15.7	24.0
126°	59.6	56.8	22.5	12.7	8.9	5.9	5.2	6.6	11.5	15.3	22.2
127°	58.1	55.2	21.4	12.3	8.6	5.8	5.2	6.5	11.2	14.8	20.5
128°	56.7	53.8	19.9	12.0	8.3	5.7	5.1	6.4	10.9	14.4	18.9
129°	55.2	52.4	18.6	11.8	8.0	5.6	5.1	6.3	10.6	14.1	17.4
130°	54.0	51.2	17.4	11.6	7.7	5.5	4.9	6.1	10.3	13.8	16.1
131°	53.2	49.9	16.3	11.3	7.1	5.5	4.8	5.9	10.1	13.5	14.7
132°	52.9	48.6	15.4	11.1	7.0	5.6	4.8	5.9	9.8	13.4	13.6
133°	52.8	47.1	14.6	11.0	6.8	5.7	4.7	6.0	9.6	13.2	12.5
134°	52.5	45.4	13.7	10.7	6.7	5.7	4.7	6.0	9.4	12.9	11.6



REPORT NUMBER: P670612
 CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	52.0	43.6	13.1	10.3	6.9	5.6	4.9	6.0	9.2	12.8	10.9
136°	51.1	41.6	12.5	10.2	7.1	5.6	5.0	5.8	8.9	12.6	10.4
137°	49.9	39.2	11.8	10.2	7.1	5.5	5.0	5.9	8.5	12.4	9.7
138°	48.4	36.8	10.9	10.2	7.2	5.4	4.9	5.9	8.1	12.2	9.2
139°	46.6	34.4	10.2	10.5	7.1	5.4	4.7	5.9	7.7	12.1	8.7
140°	44.5	32.0	9.5	10.6	6.7	5.3	4.5	5.8	7.4	11.8	8.3
141°	41.9	29.8	8.9	10.7	6.6	5.3	4.4	5.7	7.1	11.6	7.9
142°	39.2	27.7	8.3	10.8	6.4	5.3	4.4	5.7	6.8	11.4	7.6
143°	36.5	25.6	7.8	10.8	6.2	5.3	4.5	5.8	6.6	11.3	7.5
144°	34.0	23.5	7.5	10.7	6.3	5.2	4.5	5.7	6.4	11.2	7.5
145°	31.5	21.2	7.3	10.7	6.2	5.2	4.5	5.6	6.2	11.2	7.6
146°	29.1	19.1	7.4	10.8	6.1	5.1	4.6	5.4	5.9	11.3	7.8
147°	26.6	17.3	7.6	10.9	5.9	4.9	4.7	5.1	5.5	11.5	8.1
148°	24.2	15.6	7.6	11.2	5.8	4.8	4.7	4.7	5.1	11.6	8.0
149°	21.8	14.0	7.2	11.2	5.5	4.7	4.7	4.6	4.8	11.5	7.7
150°	19.6	11.9	6.5	11.1	5.2	4.6	4.7	4.5	4.5	11.2	7.2
151°	17.3	10.3	5.9	10.8	4.9	4.5	4.7	4.5	4.4	10.8	6.6
152°	15.5	8.8	5.4	10.2	4.7	4.5	4.7	4.6	4.5	10.2	6.1
153°	13.8	7.4	5.3	9.6	4.6	4.5	4.7	4.7	4.3	9.5	5.8
154°	12.2	5.9	5.3	8.8	4.6	4.5	4.7	4.6	4.4	8.6	5.7
155°	10.9	3.9	5.0	7.9	4.5	4.4	4.7	4.4	4.4	7.6	5.1
156°	9.6	2.9	4.3	6.9	4.4	4.4	4.7	4.3	4.3	6.6	4.4
157°	7.9	2.4	3.5	6.1	4.2	4.4	4.5	4.3	4.2	5.7	3.6
158°	5.0	2.4	3.1	5.4	4.1	4.4	4.5	4.2	4.2	5.0	3.3
159°	3.2	2.4	2.9	4.7	4.1	4.4	4.5	4.2	4.1	4.4	3.2
160°	2.4	2.5	2.8	4.0	4.1	4.4	4.5	4.2	4.0	3.7	3.0
161°	2.4	2.5	2.7	3.8	4.1	4.4	4.3	4.1	4.0	3.6	3.0
162°	2.5	2.6	2.7	3.8	4.1	4.3	4.3	4.1	3.9	3.6	3.1
163°	2.6	2.8	2.7	3.7	4.1	4.3	4.2	4.1	3.8	3.6	3.1
164°	2.8	3.0	2.8	3.7	4.1	4.3	4.2	4.1	3.7	3.7	3.2
165°	2.9	3.2	2.8	3.9	4.2	4.2	4.2	4.1	3.7	4.1	3.3
166°	3.1	3.7	2.9	4.4	4.2	4.2	4.1	4.1	3.7	4.4	3.3
167°	3.2	4.1	3.1	4.6	4.3	4.2	4.1	4.1	3.8	4.7	3.4
168°	3.0	4.3	3.3	4.6	4.3	4.2	4.1	4.0	3.8	4.6	3.6
169°	2.9	4.3	3.5	4.6	4.3	4.2	4.1	4.0	3.9	4.5	3.8
170°	3.0	4.1	3.5	4.6	4.3	4.2	4.0	4.1	3.9	4.5	3.8
171°	3.0	3.8	3.7	4.6	4.2	4.2	4.0	4.1	4.0	4.5	3.9
172°	3.1	3.3	3.8	4.7	4.1	4.1	4.0	4.1	4.1	4.6	4.1
173°	3.1	3.0	3.6	4.7	4.0	4.1	3.9	3.8	4.1	4.5	4.1
174°	3.1	3.0	3.3	4.4	4.0	4.0	4.0	3.9	3.8	4.2	3.9
175°	3.2	3.0	3.1	4.1	4.1	4.0	3.9	3.9	3.5	4.0	3.8
176°	3.3	3.1	3.1	4.0	4.0	3.9	3.8	3.8	3.6	4.0	3.8
177°	3.4	3.2	3.2	4.0	4.0	3.9	3.7	3.6	3.6	4.0	3.8
178°	3.4	3.2	3.2	4.0	4.0	3.9	3.7	3.5	3.5	4.0	3.9
179°	3.5	3.3	3.2	4.0	4.0	3.8	3.6	3.5	3.3	4.0	3.9



REPORT NUMBER: P670612
CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



REPORT NUMBER: P670612
CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	680.4	680.4
1°	704.4	702.4
2°	724.0	721.2
3°	743.9	743.4
4°	765.1	765.5
5°	786.5	801.1
6°	819.4	828.7
7°	840.1	830.7
8°	842.4	848.2
9°	854.6	864.9
10°	865.6	883.6
11°	877.3	896.6
12°	888.5	905.4
13°	893.4	916.2
14°	900.1	927.4
15°	903.0	933.7
16°	903.2	939.0
17°	902.1	942.1
18°	899.2	941.0
19°	895.1	940.6
20°	888.0	937.0
21°	877.8	929.1
22°	868.1	924.6
23°	858.9	912.0
24°	845.4	903.6
25°	832.2	891.5
26°	819.0	875.9
27°	803.9	859.1
28°	788.0	845.1
29°	771.1	829.2
30°	756.2	816.3
31°	741.3	802.3
32°	726.9	785.5
33°	713.5	773.5
34°	702.2	760.8
35°	690.0	750.5
36°	679.2	740.1
37°	669.2	729.3
38°	660.5	717.7
39°	652.1	709.6
40°	646.6	701.5
41°	641.1	694.8
42°	632.2	687.1
43°	628.3	678.7
44°	621.1	674.3



REPORT NUMBER: P670612
CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	617.0	666.8
46°	610.9	661.6
47°	605.7	656.3
48°	601.7	648.2
49°	597.7	644.6
50°	595.9	639.2
51°	591.4	634.6
52°	589.3	628.6
53°	583.8	622.7
54°	578.3	619.6
55°	573.2	613.2
56°	566.0	607.7
57°	560.5	600.8
58°	555.0	595.3
59°	549.6	589.3
60°	542.4	582.5
61°	538.9	576.6
62°	532.0	571.1
63°	526.1	564.1
64°	520.8	554.7
65°	513.8	547.8
66°	506.5	541.0
67°	499.1	533.6
68°	492.2	526.5
69°	484.2	520.2
70°	476.2	512.2
71°	467.0	502.7
72°	457.3	494.7
73°	446.7	485.3
74°	436.7	475.8
75°	428.1	467.2
76°	420.7	456.4
77°	413.1	449.0
78°	404.7	439.7
79°	395.2	429.8
80°	384.3	419.7
81°	374.1	408.1
82°	362.8	397.0
83°	350.2	384.6
84°	339.7	373.4
85°	329.3	361.8
86°	319.4	351.6
87°	310.1	341.5
88°	300.6	332.1
89°	293.3	323.7



REPORT NUMBER: P670612
CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	285.6	314.4
91°	277.7	306.6
92°	270.7	298.8
93°	264.0	291.8
94°	257.0	284.8
95°	251.0	276.9
96°	244.5	270.0
97°	237.4	262.8
98°	231.1	255.3
99°	224.1	247.9
100°	216.5	240.7
101°	209.6	232.9
102°	198.7	225.3
103°	182.5	217.6
104°	162.7	207.3
105°	140.4	192.2
106°	126.2	172.4
107°	115.4	150.7
108°	110.4	134.6
109°	104.9	116.5
110°	98.2	108.9
111°	87.2	98.3
112°	75.8	90.8
113°	67.2	83.9
114°	65.8	75.6
115°	68.0	67.4
116°	69.6	61.6
117°	71.2	57.6
118°	71.1	57.9
119°	68.7	64.5
120°	66.3	65.5
121°	63.7	65.7
122°	61.4	65.0
123°	59.2	63.3
124°	57.1	61.7
125°	55.1	60.8
126°	53.4	59.6
127°	52.1	58.1
128°	51.2	56.7
129°	50.4	55.2
130°	49.5	54.0
131°	48.2	53.2
132°	46.7	52.9
133°	44.9	52.8
134°	43.1	52.5



REPORT NUMBER: P670612
CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	41.3	52.0
136°	39.0	51.1
137°	36.3	49.9
138°	33.9	48.4
139°	31.5	46.6
140°	29.3	44.5
141°	27.1	41.9
142°	25.1	39.2
143°	23.1	36.5
144°	21.1	34.0
145°	19.1	31.5
146°	17.2	29.1
147°	15.5	26.6
148°	14.0	24.2
149°	12.3	21.8
150°	10.5	19.6
151°	9.0	17.3
152°	7.6	15.5
153°	6.4	13.8
154°	4.8	12.2
155°	3.4	10.9
156°	2.6	9.6
157°	2.4	7.9
158°	2.5	5.0
159°	2.5	3.2
160°	2.6	2.4
161°	2.6	2.4
162°	2.7	2.5
163°	3.0	2.6
164°	3.3	2.8
165°	3.6	2.9
166°	4.0	3.1
167°	4.4	3.2
168°	4.6	3.0
169°	4.6	2.9
170°	4.3	3.0
171°	4.0	3.0
172°	3.6	3.1
173°	3.4	3.1
174°	3.4	3.1
175°	3.5	3.2
176°	3.6	3.3
177°	3.6	3.4
178°	3.7	3.4
179°	3.7	3.5

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P670612
CATALOG NUMBER: MWP20FSUNVDBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	3.6	3.6

(END OF REPORT)