

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: P642328

Luminaire Tested: ML5612LSWW97FS1E - 692SC WW - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-131)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWW97FS1E - 692SC WW - 1200LM - 3500K
Description: ML56 RR, WW OPTIC, 6" WW INSERT WITH SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 925.3 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

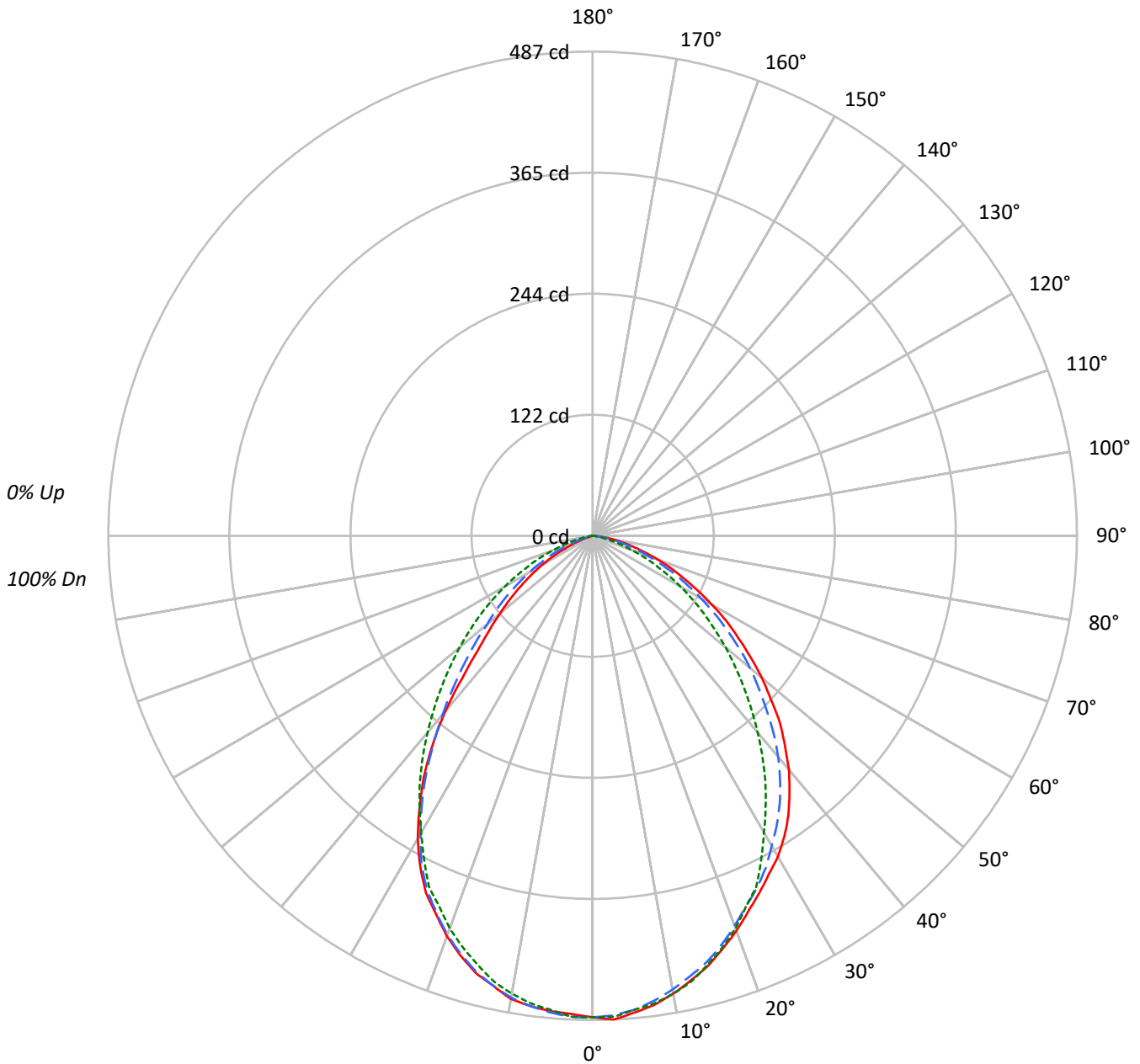
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88	88	88		
	2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77	77	77		
	3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67	67	67	67	67	67		
	4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59	59	59	59	59	59		
	5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52	52	52	52	52		
	6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46	46	46	46	46	46		
	7	70	58	50	45	69	57	50	44	56	49	44	55	48	44	53	48	44	42	42	42	42	42	42		
	8	66	53	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38	38	38	38	38	38		
	9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34	34	34	34	34	34		
	10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32	32	32	32	32	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26549	26549	26549	26549	26549
5°	26497	26343	26343	26497	26420
10°	26029	25796	26029	26258	26336
15°	25426	25187	25346	25744	25823
20°	24671	24345	24508	24916	24998
25°	23977	23638	23554	23808	23977
30°	23586	22795	21820	21908	22263
35°	22975	21951	20271	19521	19803
40°	21970	20775	18477	16781	16481
45°	20669	19149	16661	14172	12660
50°	18925	17620	14882	11786	10354
55°	17070	15741	13075	10007	8401
60°	15152	13771	11172	8113	6425
65°	13036	11765	9054	5980	3982
70°	11188	9617	6716	3350	1571
75°	8875	7392	4427	890	0
80°	6598	5272	2210	0	0
85°	3522	2642	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20669 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	4.9
10°-20°	126.0	13.6
20°-30°	179.6	19.4
30°-40°	193.1	20.9
40°-50°	166.4	18.0
50°-60°	120.6	13.0
60°-70°	68.0	7.4
70°-80°	23.1	2.5
80°-90°	3.0	0.3
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°-30°	351.0	37.9
0°-40°	544.1	58.8
0°-60°	831.2	89.8
0°-90°	925.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	484	484	484	484	484	
5°	482	479	479	482	480	46
15°	448	444	447	454	455	126
25°	396	391	389	394	396	183
35°	343	328	303	292	296	214
45°	267	247	215	183	163	204
55°	179	165	137	105	88	160
65°	100	91	70	46	31	101
75°	42	35	21	4	0	45
85°	6	4	0	0	0	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	487.1	482.9	481.5	482.9	482.9	482.9	482.9	482.9	482.9	481.5	482.9
5°	481.5	477.3	477.3	477.3	477.3	477.3	475.9	477.3	477.3	477.3	478.7
7.5°	475.9	470.3	471.7	470.3	471.7	470.3	470.3	471.7	470.3	471.7	471.7
10°	467.6	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4
12.5°	457.8	453.6	453.6	453.6	453.6	453.6	453.6	453.6	455.0	453.6	453.6
15°	448.0	442.4	443.8	442.4	442.4	442.4	442.4	442.4	442.4	442.4	443.8
17.5°	435.4	431.3	431.3	431.3	431.3	431.3	431.3	429.9	431.3	431.3	431.3
20°	422.9	418.7	418.7	417.3	418.7	417.3	417.3	417.3	418.7	417.3	417.3
22.5°	408.9	404.7	406.1	404.7	404.7	404.7	404.7	404.7	403.3	404.7	403.3
25°	396.4	395.0	393.6	395.0	393.6	393.6	393.6	392.2	392.2	392.2	390.8
27.5°	383.8	381.0	381.0	381.0	381.0	379.6	379.6	379.6	378.2	376.8	376.8
30°	372.6	368.5	368.5	368.5	367.1	367.1	365.7	365.7	362.9	361.5	360.1
32.5°	358.7	355.9	354.5	354.5	353.1	353.1	351.7	351.7	348.9	347.5	344.7
35°	343.3	341.9	341.9	340.5	339.1	337.8	336.4	335.0	333.6	330.8	328.0
37.5°	325.2	323.8	322.4	322.4	321.0	319.6	319.6	316.8	315.4	312.6	309.8
40°	307.0	304.3	304.3	302.9	301.5	300.1	300.1	297.3	295.9	293.1	290.3
42.5°	286.1	283.3	283.3	281.9	281.9	281.9	280.5	277.7	274.9	272.2	269.4
45°	266.6	263.8	263.8	261.0	261.0	259.6	258.2	256.8	254.0	251.2	247.0
47.5°	242.8	241.5	241.5	240.1	238.7	237.3	237.3	235.9	233.1	228.9	226.1
50°	221.9	220.5	220.5	219.1	217.7	216.3	214.9	213.5	212.1	209.4	206.6
52.5°	199.6	199.6	198.2	196.8	196.8	195.4	194.0	192.6	189.8	187.0	185.6
55°	178.6	177.3	177.3	175.9	175.9	174.5	173.1	171.7	170.3	167.5	164.7
57.5°	159.1	156.3	156.3	154.9	154.9	154.9	153.5	150.7	149.3	146.5	145.1
60°	138.2	136.8	136.8	136.8	135.4	134.0	134.0	131.2	129.8	128.4	125.6
62.5°	118.6	117.2	117.2	117.2	115.8	115.8	114.4	113.0	111.7	110.3	107.5
65°	100.5	100.5	100.5	99.1	99.1	97.7	96.3	96.3	94.9	93.5	90.7
67.5°	85.1	83.7	83.7	83.7	82.3	82.3	80.9	79.6	78.2	76.8	74.0
70°	69.8	68.4	68.4	67.0	67.0	67.0	67.0	65.6	62.8	62.8	60.0
72.5°	54.4	54.4	54.4	53.0	53.0	53.0	51.6	51.6	50.2	48.8	47.5
75°	41.9	41.9	41.9	40.5	40.5	40.5	39.1	39.1	37.7	36.3	34.9
77.5°	30.7	30.7	30.7	29.3	29.3	29.3	27.9	27.9	26.5	26.5	25.1
80°	20.9	20.9	20.9	19.5	19.5	19.5	19.5	18.1	18.1	16.7	16.7
82.5°	12.6	12.6	12.6	12.6	11.2	11.2	11.2	11.2	11.2	9.8	9.8
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.2	4.2
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	484.3	482.9
5°	478.7	478.7	478.7	478.7	478.7	478.7	480.1	478.7	480.1	478.7	480.1
7.5°	471.7	471.7	473.1	473.1	471.7	473.1	473.1	473.1	473.1	474.5	474.5
10°	463.4	464.8	464.8	466.2	466.2	466.2	466.2	467.6	467.6	467.6	467.6
12.5°	455.0	455.0	455.0	455.0	456.4	455.0	456.4	456.4	457.8	459.2	457.8
15°	442.4	443.8	443.8	443.8	443.8	443.8	445.2	446.6	446.6	446.6	448.0
17.5°	431.3	431.3	431.3	432.7	431.3	432.7	432.7	432.7	434.1	434.1	435.4
20°	417.3	415.9	418.7	417.3	417.3	418.7	418.7	418.7	420.1	420.1	420.1
22.5°	402.0	403.3	402.0	402.0	403.3	403.3	403.3	402.0	403.3	403.3	404.7
25°	389.4	389.4	389.4	389.4	389.4	389.4	389.4	388.0	389.4	389.4	389.4
27.5°	375.4	372.6	372.6	371.2	371.2	369.9	368.5	368.5	368.5	367.1	368.5
30°	358.7	355.9	354.5	353.1	351.7	351.7	348.9	347.5	346.1	344.7	343.3
32.5°	341.9	339.1	337.8	336.4	333.6	332.2	329.4	328.0	326.6	323.8	321.0
35°	326.6	322.4	319.6	316.8	315.4	314.0	311.2	308.4	305.7	302.9	300.1
37.5°	305.7	302.9	300.1	297.3	295.9	294.5	291.7	286.1	283.3	280.5	277.7
40°	287.5	283.3	280.5	276.3	274.9	272.2	269.4	265.2	261.0	258.2	255.4
42.5°	265.2	262.4	259.6	255.4	254.0	251.2	247.0	244.2	241.5	235.9	233.1
45°	244.2	241.5	238.7	234.5	231.7	230.3	227.5	223.3	219.1	214.9	212.1
47.5°	223.3	220.5	216.3	213.5	210.7	209.4	206.6	202.4	198.2	194.0	191.2
50°	202.4	199.6	196.8	191.2	191.2	188.4	185.6	181.4	178.6	174.5	170.3
52.5°	182.8	178.6	175.9	171.7	171.7	170.3	166.1	161.9	159.1	154.9	152.1
55°	161.9	159.1	156.3	153.5	150.7	149.3	147.9	143.8	139.6	136.8	132.6
57.5°	142.4	138.2	136.8	134.0	132.6	131.2	128.4	124.2	121.4	118.6	115.8
60°	124.2	121.4	117.2	115.8	114.4	113.0	110.3	107.5	104.7	101.9	99.1
62.5°	106.1	103.3	100.5	97.7	96.3	94.9	93.5	90.7	87.9	85.1	82.3
65°	87.9	86.5	83.7	82.3	80.9	79.6	76.8	74.0	72.6	69.8	67.0
67.5°	72.6	71.2	68.4	67.0	65.6	65.6	61.4	60.0	57.2	55.8	53.0
70°	58.6	57.2	54.4	53.0	51.6	50.2	48.8	47.5	44.7	41.9	40.5
72.5°	46.1	43.3	41.9	40.5	39.1	39.1	36.3	34.9	32.1	30.7	27.9
75°	33.5	32.1	30.7	29.3	29.3	27.9	26.5	25.1	22.3	20.9	19.5
77.5°	23.7	22.3	20.9	19.5	19.5	18.1	16.7	15.4	14.0	12.6	11.2
80°	15.4	14.0	14.0	12.6	11.2	11.2	9.8	8.4	7.0	7.0	5.6
82.5°	8.4	8.4	7.0	7.0	5.6	5.6	4.2	4.2	2.8	2.8	1.4
85°	4.2	2.8	2.8	2.8	2.8	1.4	1.4	1.4	0.0	0.0	0.0
87.5°	1.4	1.4	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	484.3	482.9	482.9
5°	480.1	480.1	481.5	480.1	481.5	481.5	480.1	480.1	481.5	482.9	481.5
7.5°	474.5	474.5	475.9	475.9	475.9	475.9	475.9	477.3	477.3	478.7	478.7
10°	468.9	468.9	468.9	468.9	470.3	470.3	471.7	471.7	471.7	471.7	471.7
12.5°	459.2	460.6	460.6	460.6	460.6	462.0	462.0	463.4	463.4	463.4	464.8
15°	448.0	449.4	450.8	450.8	449.4	450.8	452.2	452.2	453.6	453.6	453.6
17.5°	435.4	436.8	436.8	438.2	436.8	439.6	439.6	441.0	441.0	442.4	442.4
20°	421.5	422.9	422.9	422.9	424.3	424.3	425.7	425.7	427.1	427.1	427.1
22.5°	404.7	406.1	406.1	406.1	406.1	407.5	407.5	408.9	410.3	411.7	410.3
25°	389.4	390.8	392.2	390.8	392.2	392.2	392.2	393.6	393.6	395.0	393.6
27.5°	368.5	368.5	368.5	369.9	371.2	371.2	371.2	372.6	372.6	372.6	374.0
30°	343.3	341.9	343.3	343.3	343.3	343.3	346.1	346.1	346.1	347.5	348.9
32.5°	319.6	319.6	319.6	318.2	318.2	318.2	318.2	319.6	319.6	321.0	322.4
35°	297.3	295.9	293.1	293.1	293.1	291.7	290.3	290.3	291.7	291.7	291.7
37.5°	273.6	272.2	270.8	268.0	268.0	265.2	263.8	262.4	262.4	261.0	261.0
40°	251.2	248.4	245.6	245.6	242.8	241.5	238.7	237.3	234.5	231.7	231.7
42.5°	228.9	226.1	223.3	221.9	219.1	217.7	213.5	210.7	208.0	206.6	203.8
45°	208.0	205.2	201.0	199.6	196.8	194.0	191.2	187.0	182.8	180.0	178.6
47.5°	187.0	184.2	180.0	177.3	175.9	171.7	168.9	164.7	160.5	156.3	152.1
50°	167.5	163.3	159.1	156.3	154.9	150.7	147.9	143.8	138.2	136.8	132.6
52.5°	147.9	143.8	139.6	138.2	136.8	132.6	128.4	124.2	121.4	117.2	114.4
55°	128.4	125.6	121.4	120.0	118.6	114.4	110.3	107.5	104.7	100.5	97.7
57.5°	111.7	108.9	104.7	103.3	101.9	97.7	94.9	90.7	87.9	85.1	82.3
60°	96.3	92.1	89.3	87.9	86.5	82.3	79.6	76.8	74.0	71.2	67.0
62.5°	79.6	76.8	74.0	72.6	69.8	68.4	64.2	62.8	58.6	57.2	54.4
65°	64.2	61.4	58.6	58.6	57.2	53.0	51.6	48.8	46.1	43.3	41.9
67.5°	51.6	48.8	46.1	44.7	43.3	40.5	39.1	36.3	33.5	32.1	29.3
70°	39.1	36.3	33.5	32.1	30.7	29.3	26.5	23.7	20.9	19.5	16.7
72.5°	26.5	23.7	22.3	22.3	20.9	18.1	15.4	14.0	11.2	9.8	8.4
75°	16.7	14.0	12.6	11.2	11.2	9.8	7.0	5.6	4.2	2.8	1.4
77.5°	9.8	8.4	7.0	5.6	5.6	4.2	2.8	1.4	1.4	0.0	0.0
80°	4.2	2.8	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P642328

CATALOG NUMBER: ML5612LSWW97FS1E - 692SC WW - 1200LM - 3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	482.9	482.9	482.9	482.9	481.5	481.5	481.5	481.5
5°	481.5	481.5	481.5	481.5	480.1	480.1	481.5	480.1
7.5°	478.7	478.7	477.3	477.3	477.3	477.3	477.3	477.3
10°	473.1	473.1	473.1	471.7	473.1	473.1	471.7	473.1
12.5°	464.8	464.8	464.8	464.8	463.4	463.4	464.8	463.4
15°	455.0	455.0	455.0	455.0	455.0	453.6	455.0	455.0
17.5°	443.8	443.8	442.4	442.4	442.4	443.8	443.8	442.4
20°	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5
22.5°	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7
25°	395.0	395.0	395.0	395.0	395.0	395.0	395.0	396.4
27.5°	374.0	374.0	374.0	374.0	374.0	372.6	372.6	375.4
30°	348.9	350.3	350.3	350.3	350.3	350.3	350.3	351.7
32.5°	323.8	323.8	323.8	325.2	323.8	325.2	323.8	323.8
35°	294.5	294.5	294.5	294.5	294.5	295.9	295.9	295.9
37.5°	261.0	262.4	262.4	263.8	263.8	263.8	265.2	263.8
40°	230.3	230.3	230.3	228.9	230.3	228.9	230.3	230.3
42.5°	201.0	198.2	198.2	196.8	196.8	195.4	194.0	194.0
45°	174.5	170.3	170.3	168.9	167.5	164.7	163.3	163.3
47.5°	149.3	147.9	146.5	145.1	143.8	141.0	139.6	141.0
50°	128.4	127.0	125.6	125.6	124.2	122.8	121.4	121.4
52.5°	111.7	108.9	107.5	107.5	106.1	104.7	104.7	104.7
55°	94.9	92.1	92.1	92.1	90.7	89.3	89.3	87.9
57.5°	79.6	76.8	76.8	75.4	74.0	74.0	74.0	72.6
60°	65.6	62.8	61.4	61.4	60.0	58.6	58.6	58.6
62.5°	51.6	50.2	47.5	47.5	46.1	44.7	43.3	44.7
65°	39.1	36.3	34.9	34.9	33.5	32.1	30.7	30.7
67.5°	26.5	25.1	23.7	23.7	20.9	20.9	19.5	19.5
70°	15.4	14.0	14.0	12.6	11.2	11.2	9.8	9.8
72.5°	7.0	5.6	5.6	4.2	4.2	2.8	2.8	2.8
75°	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	1.4	1.4	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)