

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 COMMERCIAL

Report Number: P775781

Luminaire Tested: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B001-HCD6TRMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TRMB-1000lm-3000K
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 754.6 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

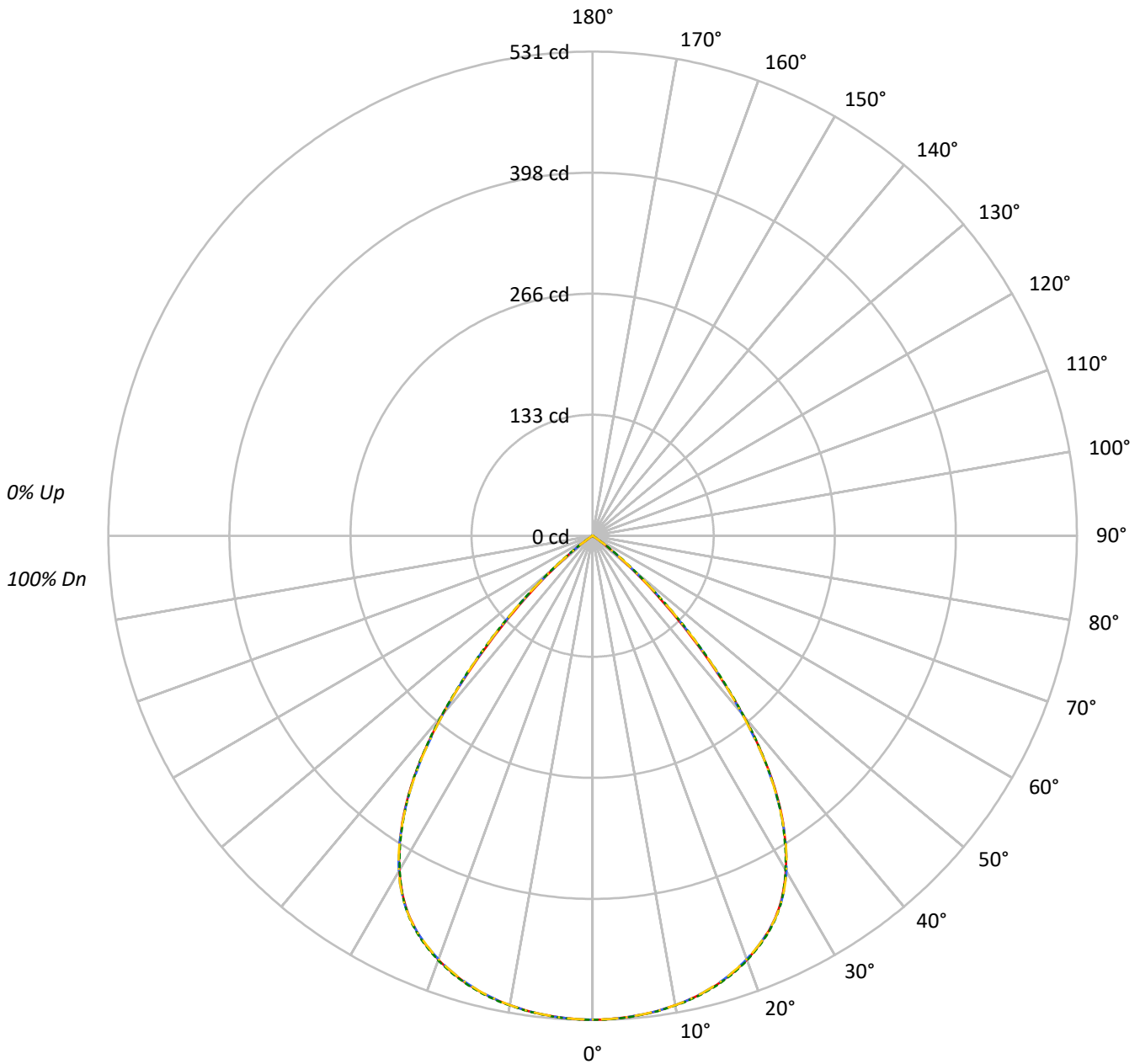
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775781

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92								
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84								
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77								
4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	79	75	72	70								
5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66	64								
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59								
7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54								
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50								
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46								
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29093	29093	29093	29093
5°	29089	29100	29089	29100
10°	29097	29119	29097	29119
15°	29064	29098	29064	29098
20°	28866	28901	28866	28901
25°	28308	28369	28308	28369
30°	26821	26783	26821	26783
35°	23771	23697	23771	23697
40°	18334	18485	18334	18485
45°	10962	11505	10962	11505
50°	4529	5211	4529	5211
55°	879	1032	879	1032
60°	66	66	66	66
65°	26	26	26	26
70°	16	16	16	16
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 11528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	6.7
10°-20°	144.4	19.1
20°-30°	214.4	28.4
30°-40°	217.3	28.8
40°-50°	113.7	15.1
50°-60°	14.2	1.9
60°-70°	0.2	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	409.1	54.2
0°-40°	626.4	83.0
0°-60°	754.3	100.0
0°-90°	754.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	531	531	531	531	531	
5°	529	529	529	529	529	50
15°	512	513	512	513	512	144
25°	468	469	468	469	468	214
35°	355	354	355	354	355	218
45°	141	148	141	148	141	111
55°	9	11	9	11	9	13
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7
0.5°	530.7	530.6	530.6	530.6	530.8	530.6	530.6	530.6	530.7	530.6	530.6
1°	530.6	530.6	530.5	530.5	530.8	530.5	530.5	530.6	530.6	530.6	530.5
1.5°	530.5	530.5	530.4	530.4	530.7	530.4	530.4	530.5	530.5	530.5	530.4
2°	530.4	530.3	530.3	530.3	530.5	530.3	530.3	530.3	530.4	530.3	530.3
2.5°	530.1	530.0	530.0	530.0	530.4	530.0	530.0	530.0	530.1	530.0	530.0
3°	529.8	529.8	529.8	529.8	530.1	529.8	529.8	529.8	529.8	529.8	529.8
3.5°	529.6	529.6	529.6	529.5	529.8	529.5	529.6	529.6	529.6	529.6	529.6
4°	529.3	529.3	529.3	529.3	529.5	529.3	529.3	529.3	529.3	529.3	529.3
4.5°	528.9	528.9	528.9	528.9	529.2	528.9	528.9	528.9	528.9	528.9	528.9
5°	528.6	528.6	528.6	528.6	528.8	528.6	528.6	528.6	528.6	528.6	528.6
5.5°	528.2	528.2	528.2	528.2	528.5	528.2	528.2	528.2	528.2	528.2	528.2
6°	527.8	527.7	527.7	527.7	528.0	527.7	527.7	527.7	527.8	527.7	527.7
6.5°	527.3	527.2	527.3	527.3	527.6	527.3	527.3	527.2	527.3	527.2	527.3
7°	526.8	526.7	526.7	526.8	527.0	526.8	526.7	526.7	526.8	526.7	526.7
7.5°	526.2	526.2	526.2	526.2	526.5	526.2	526.2	526.2	526.2	526.2	526.2
8°	525.6	525.6	525.6	525.6	525.9	525.6	525.6	525.6	525.6	525.6	525.6
8.5°	524.9	524.8	524.8	524.9	525.3	524.9	524.8	524.8	524.9	524.8	524.8
9°	524.2	524.2	524.2	524.2	524.5	524.2	524.2	524.2	524.2	524.2	524.2
9.5°	523.5	523.4	523.4	523.5	523.8	523.5	523.4	523.4	523.5	523.4	523.4
10°	522.7	522.7	522.6	522.7	523.1	522.7	522.6	522.7	522.7	522.7	522.6
10.5°	522.0	521.8	521.8	521.9	522.3	521.9	521.8	521.8	522.0	521.8	521.8
11°	521.1	521.0	520.9	521.1	521.5	521.1	520.9	521.0	521.1	521.0	520.9
11.5°	520.2	520.0	520.0	520.2	520.6	520.2	520.0	520.0	520.2	520.0	520.0
12°	519.1	519.0	518.9	519.1	519.6	519.1	518.9	519.0	519.1	519.0	518.9
12.5°	518.1	517.9	517.8	518.1	518.6	518.1	517.8	517.9	518.1	517.9	517.8
13°	517.1	516.9	516.7	517.0	517.6	517.0	516.7	516.9	517.1	516.9	516.7
13.5°	515.9	515.7	515.6	515.9	516.5	515.9	515.6	515.7	515.9	515.7	515.6
14°	514.7	514.4	514.2	514.6	515.3	514.6	514.2	514.4	514.7	514.4	514.2
14.5°	513.4	513.2	513.0	513.3	514.0	513.3	513.0	513.2	513.4	513.2	513.0
15°	512.1	511.8	511.6	512.0	512.7	512.0	511.6	511.8	512.1	511.8	511.6
15.5°	510.7	510.4	510.2	510.6	511.3	510.6	510.2	510.4	510.7	510.4	510.2
16°	509.2	508.9	508.6	509.1	509.9	509.1	508.6	508.9	509.2	508.9	508.6
16.5°	507.7	507.3	507.1	507.6	508.3	507.6	507.1	507.3	507.7	507.3	507.1
17°	506.1	505.7	505.5	506.0	506.7	506.0	505.5	505.7	506.1	505.7	505.5
17.5°	504.3	504.0	503.7	504.2	505.1	504.2	503.7	504.0	504.3	504.0	503.7
18°	502.6	502.2	501.9	502.5	503.2	502.5	501.9	502.2	502.6	502.2	501.9
18.5°	500.7	500.4	500.1	500.7	501.4	500.7	500.1	500.4	500.7	500.4	500.1
19°	498.8	498.4	498.1	498.7	499.5	498.7	498.1	498.4	498.8	498.4	498.1
19.5°	496.8	496.5	496.1	496.7	497.5	496.7	496.1	496.5	496.8	496.5	496.1
20°	494.8	494.4	494.0	494.7	495.4	494.7	494.0	494.4	494.8	494.4	494.0
20.5°	492.5	492.2	491.9	492.5	493.2	492.5	491.9	492.2	492.5	492.2	491.9
21°	490.3	490.0	489.7	490.3	490.9	490.3	489.7	490.0	490.3	490.0	489.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	482.8	482.5	482.4	482.9	483.5	482.9	482.4	482.5	482.8	482.5	482.4
23°	480.1	479.9	479.8	480.4	480.8	480.4	479.8	479.9	480.1	479.9	479.8
23.5°	477.2	477.1	477.1	477.6	478.0	477.6	477.1	477.1	477.2	477.1	477.1
24°	474.4	474.3	474.4	474.7	475.2	474.7	474.4	474.3	474.4	474.3	474.4
24.5°	471.3	471.3	471.4	471.7	472.1	471.7	471.4	471.3	471.3	471.3	471.4
25°	468.0	468.1	468.3	468.5	469.0	468.5	468.3	468.1	468.0	468.1	468.3
25.5°	464.7	464.8	465.1	465.1	465.5	465.1	465.1	464.8	464.7	464.8	465.1
26°	461.0	461.2	461.5	461.5	461.9	461.5	461.5	461.2	461.0	461.2	461.5
26.5°	457.2	457.5	457.9	457.7	457.9	457.7	457.9	457.5	457.2	457.5	457.9
27°	453.1	453.6	454.0	453.7	453.9	453.7	454.0	453.6	453.1	453.6	454.0
27.5°	448.9	449.4	449.8	449.4	449.4	449.4	449.8	449.4	448.9	449.4	449.8
28°	444.3	444.9	445.4	444.8	444.5	444.8	445.4	444.9	444.3	444.9	445.4
28.5°	439.5	440.2	440.7	440.0	439.5	440.0	440.7	440.2	439.5	440.2	440.7
29°	434.5	435.2	435.7	435.0	434.3	435.0	435.7	435.2	434.5	435.2	435.7
29.5°	429.2	430.0	430.5	429.7	428.8	429.7	430.5	430.0	429.2	430.0	430.5
30°	423.7	424.3	424.9	424.0	423.1	424.0	424.9	424.3	423.7	424.3	424.9
30.5°	418.0	418.6	419.1	418.1	417.0	418.1	419.1	418.6	418.0	418.6	419.1
31°	411.9	412.5	413.0	412.0	410.9	412.0	413.0	412.5	411.9	412.5	413.0
31.5°	405.7	406.0	406.5	405.5	404.5	405.5	406.5	406.0	405.7	406.0	406.5
32°	399.3	399.3	399.8	398.8	398.0	398.8	399.8	399.3	399.3	399.3	399.8
32.5°	392.6	392.5	392.8	391.7	391.1	391.7	392.8	392.5	392.6	392.5	392.8
33°	385.6	385.2	385.5	384.5	384.3	384.5	385.5	385.2	385.6	385.2	385.5
33.5°	378.6	377.9	378.0	377.1	377.0	377.1	378.0	377.9	378.6	377.9	378.0
34°	371.0	370.2	370.2	369.2	369.7	369.2	370.2	370.2	371.0	370.2	370.2
34.5°	363.3	362.4	362.2	361.2	362.1	361.2	362.2	362.4	363.3	362.4	362.2
35°	355.2	354.2	353.8	353.1	354.1	353.1	353.8	354.2	355.2	354.2	353.8
35.5°	346.8	346.0	345.2	344.8	346.0	344.8	345.2	346.0	346.8	346.0	345.2
36°	338.0	337.4	336.4	336.2	337.5	336.2	336.4	337.4	338.0	337.4	336.4
36.5°	328.9	328.4	327.2	327.3	328.8	327.3	327.2	328.4	328.9	328.4	327.2
37°	319.4	319.1	317.7	318.2	319.6	318.2	317.7	319.1	319.4	319.1	317.7
37.5°	309.6	309.5	307.8	308.7	310.1	308.7	307.8	309.5	309.6	309.5	307.8
38°	299.6	299.5	297.6	298.9	300.3	298.9	297.6	299.5	299.6	299.5	297.6
38.5°	289.2	289.1	287.0	288.8	290.2	288.8	287.0	289.1	289.2	289.1	287.0
39°	278.6	278.3	276.3	278.6	279.9	278.6	276.3	278.3	278.6	278.3	276.3
39.5°	267.7	267.2	265.4	268.0	269.3	268.0	265.4	267.2	267.7	267.2	265.4
40°	256.2	255.8	254.3	257.0	258.3	257.0	254.3	255.8	256.2	255.8	254.3
40.5°	244.8	244.3	243.2	245.9	247.0	245.9	243.2	244.3	244.8	244.3	243.2
41°	233.0	232.7	232.5	234.8	235.8	234.8	232.5	232.7	233.0	232.7	232.5
41.5°	221.4	221.1	221.8	223.7	224.6	223.7	221.8	221.1	221.4	221.1	221.8
42°	209.6	209.7	211.2	212.4	213.6	212.4	211.2	209.7	209.6	209.7	211.2
42.5°	197.9	198.4	200.5	201.5	202.6	201.5	200.5	198.4	197.9	198.4	200.5
43°	186.1	187.2	189.8	190.7	191.4	190.7	189.8	187.2	186.1	187.2	189.8
43.5°	174.6	176.0	179.1	180.0	180.4	180.0	179.1	176.0	174.6	176.0	179.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	141.4	143.4	147.5	148.7	148.4	148.7	147.5	143.4	141.4	143.4	147.5
45.5°	130.9	133.0	137.3	138.9	138.1	138.9	137.3	133.0	130.9	133.0	137.3
46°	120.6	123.1	127.6	129.2	128.0	129.2	127.6	123.1	120.6	123.1	127.6
46.5°	111.2	113.4	117.9	119.4	118.3	119.4	117.9	113.4	111.2	113.4	117.9
47°	101.8	103.9	108.3	110.0	108.8	110.0	108.3	103.9	101.8	103.9	108.3
47.5°	92.7	94.7	98.8	100.8	99.8	100.8	98.8	94.7	92.7	94.7	98.8
48°	83.7	85.9	89.9	92.0	91.4	92.0	89.9	85.9	83.7	85.9	89.9
48.5°	75.2	77.5	81.3	83.6	83.1	83.6	81.3	77.5	75.2	77.5	81.3
49°	67.3	69.6	73.0	75.6	75.7	75.6	73.0	69.6	67.3	69.6	73.0
49.5°	60.1	61.8	65.1	67.9	68.3	67.9	65.1	61.8	60.1	61.8	65.1
50°	53.1	54.7	57.4	60.5	61.1	60.5	57.4	54.7	53.1	54.7	57.4
50.5°	46.6	47.8	50.2	53.3	54.1	53.3	50.2	47.8	46.6	47.8	50.2
51°	40.6	41.7	44.0	46.7	47.4	46.7	44.0	41.7	40.6	41.7	44.0
51.5°	35.2	36.1	38.0	40.5	41.6	40.5	38.0	36.1	35.2	36.1	38.0
52°	30.1	30.9	32.5	34.7	35.9	34.7	32.5	30.9	30.1	30.9	32.5
52.5°	25.8	26.0	27.2	29.3	30.4	29.3	27.2	26.0	25.8	26.0	27.2
53°	21.8	21.7	22.7	24.7	25.5	24.7	22.7	21.7	21.8	21.7	22.7
53.5°	18.0	18.2	19.0	20.7	21.0	20.7	19.0	18.2	18.0	18.2	19.0
54°	14.6	14.9	15.4	16.9	16.9	16.9	15.4	14.9	14.6	14.9	15.4
54.5°	11.7	11.9	12.1	13.5	13.4	13.5	12.1	11.9	11.7	11.9	12.1
55°	9.2	9.1	9.3	10.4	10.8	10.4	9.3	9.1	9.2	9.1	9.3
55.5°	6.7	6.7	7.0	7.8	8.4	7.8	7.0	6.7	6.7	6.7	7.0
56°	4.5	4.8	5.3	5.9	6.4	5.9	5.3	4.8	4.5	4.8	5.3
56.5°	3.1	3.2	3.9	4.2	4.6	4.2	3.9	3.2	3.1	3.2	3.9
57°	2.4	2.2	2.5	2.8	2.8	2.8	2.5	2.2	2.4	2.2	2.5
57.5°	1.9	1.7	1.8	2.0	1.8	2.0	1.8	1.7	1.9	1.7	1.8
58°	1.5	1.4	1.5	1.6	1.3	1.6	1.5	1.4	1.5	1.4	1.5
58.5°	1.0	1.1	1.2	1.3	1.1	1.3	1.2	1.1	1.0	1.1	1.2
59°	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9
59.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
60.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4
61.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775781

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
73.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	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	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	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
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	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
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775781
CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
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: P775781

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	530.7	530.7	530.7	530.7	530.7	530.7
0.5°	530.6	530.8	530.6	530.6	530.6	530.7
1°	530.5	530.8	530.5	530.5	530.6	530.6
1.5°	530.4	530.7	530.4	530.4	530.5	530.5
2°	530.3	530.5	530.3	530.3	530.3	530.4
2.5°	530.0	530.4	530.0	530.0	530.0	530.1
3°	529.8	530.1	529.8	529.8	529.8	529.8
3.5°	529.5	529.8	529.5	529.6	529.6	529.6
4°	529.3	529.5	529.3	529.3	529.3	529.3
4.5°	528.9	529.2	528.9	528.9	528.9	528.9
5°	528.6	528.8	528.6	528.6	528.6	528.6
5.5°	528.2	528.5	528.2	528.2	528.2	528.2
6°	527.7	528.0	527.7	527.7	527.7	527.8
6.5°	527.3	527.6	527.3	527.3	527.2	527.3
7°	526.8	527.0	526.8	526.7	526.7	526.8
7.5°	526.2	526.5	526.2	526.2	526.2	526.2
8°	525.6	525.9	525.6	525.6	525.6	525.6
8.5°	524.9	525.3	524.9	524.8	524.8	524.9
9°	524.2	524.5	524.2	524.2	524.2	524.2
9.5°	523.5	523.8	523.5	523.4	523.4	523.5
10°	522.7	523.1	522.7	522.6	522.7	522.7
10.5°	521.9	522.3	521.9	521.8	521.8	522.0
11°	521.1	521.5	521.1	520.9	521.0	521.1
11.5°	520.2	520.6	520.2	520.0	520.0	520.2
12°	519.1	519.6	519.1	518.9	519.0	519.1
12.5°	518.1	518.6	518.1	517.8	517.9	518.1
13°	517.0	517.6	517.0	516.7	516.9	517.1
13.5°	515.9	516.5	515.9	515.6	515.7	515.9
14°	514.6	515.3	514.6	514.2	514.4	514.7
14.5°	513.3	514.0	513.3	513.0	513.2	513.4
15°	512.0	512.7	512.0	511.6	511.8	512.1
15.5°	510.6	511.3	510.6	510.2	510.4	510.7
16°	509.1	509.9	509.1	508.6	508.9	509.2
16.5°	507.6	508.3	507.6	507.1	507.3	507.7
17°	506.0	506.7	506.0	505.5	505.7	506.1
17.5°	504.2	505.1	504.2	503.7	504.0	504.3
18°	502.5	503.2	502.5	501.9	502.2	502.6
18.5°	500.7	501.4	500.7	500.1	500.4	500.7
19°	498.7	499.5	498.7	498.1	498.4	498.8
19.5°	496.7	497.5	496.7	496.1	496.5	496.8
20°	494.7	495.4	494.7	494.0	494.4	494.8
20.5°	492.5	493.2	492.5	491.9	492.2	492.5
21°	490.3	490.9	490.3	489.7	490.0	490.3

TEST NUMBER: P775781

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	482.9	483.5	482.9	482.4	482.5	482.8
23°	480.4	480.8	480.4	479.8	479.9	480.1
23.5°	477.6	478.0	477.6	477.1	477.1	477.2
24°	474.7	475.2	474.7	474.4	474.3	474.4
24.5°	471.7	472.1	471.7	471.4	471.3	471.3
25°	468.5	469.0	468.5	468.3	468.1	468.0
25.5°	465.1	465.5	465.1	465.1	464.8	464.7
26°	461.5	461.9	461.5	461.5	461.2	461.0
26.5°	457.7	457.9	457.7	457.9	457.5	457.2
27°	453.7	453.9	453.7	454.0	453.6	453.1
27.5°	449.4	449.4	449.4	449.8	449.4	448.9
28°	444.8	444.5	444.8	445.4	444.9	444.3
28.5°	440.0	439.5	440.0	440.7	440.2	439.5
29°	435.0	434.3	435.0	435.7	435.2	434.5
29.5°	429.7	428.8	429.7	430.5	430.0	429.2
30°	424.0	423.1	424.0	424.9	424.3	423.7
30.5°	418.1	417.0	418.1	419.1	418.6	418.0
31°	412.0	410.9	412.0	413.0	412.5	411.9
31.5°	405.5	404.5	405.5	406.5	406.0	405.7
32°	398.8	398.0	398.8	399.8	399.3	399.3
32.5°	391.7	391.1	391.7	392.8	392.5	392.6
33°	384.5	384.3	384.5	385.5	385.2	385.6
33.5°	377.1	377.0	377.1	378.0	377.9	378.6
34°	369.2	369.7	369.2	370.2	370.2	371.0
34.5°	361.2	362.1	361.2	362.2	362.4	363.3
35°	353.1	354.1	353.1	353.8	354.2	355.2
35.5°	344.8	346.0	344.8	345.2	346.0	346.8
36°	336.2	337.5	336.2	336.4	337.4	338.0
36.5°	327.3	328.8	327.3	327.2	328.4	328.9
37°	318.2	319.6	318.2	317.7	319.1	319.4
37.5°	308.7	310.1	308.7	307.8	309.5	309.6
38°	298.9	300.3	298.9	297.6	299.5	299.6
38.5°	288.8	290.2	288.8	287.0	289.1	289.2
39°	278.6	279.9	278.6	276.3	278.3	278.6
39.5°	268.0	269.3	268.0	265.4	267.2	267.7
40°	257.0	258.3	257.0	254.3	255.8	256.2
40.5°	245.9	247.0	245.9	243.2	244.3	244.8
41°	234.8	235.8	234.8	232.5	232.7	233.0
41.5°	223.7	224.6	223.7	221.8	221.1	221.4
42°	212.4	213.6	212.4	211.2	209.7	209.6
42.5°	201.5	202.6	201.5	200.5	198.4	197.9
43°	190.7	191.4	190.7	189.8	187.2	186.1
43.5°	180.0	180.4	180.0	179.1	176.0	174.6



TEST NUMBER: P775781

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	148.7	148.4	148.7	147.5	143.4	141.4
45.5°	138.9	138.1	138.9	137.3	133.0	130.9
46°	129.2	128.0	129.2	127.6	123.1	120.6
46.5°	119.4	118.3	119.4	117.9	113.4	111.2
47°	110.0	108.8	110.0	108.3	103.9	101.8
47.5°	100.8	99.8	100.8	98.8	94.7	92.7
48°	92.0	91.4	92.0	89.9	85.9	83.7
48.5°	83.6	83.1	83.6	81.3	77.5	75.2
49°	75.6	75.7	75.6	73.0	69.6	67.3
49.5°	67.9	68.3	67.9	65.1	61.8	60.1
50°	60.5	61.1	60.5	57.4	54.7	53.1
50.5°	53.3	54.1	53.3	50.2	47.8	46.6
51°	46.7	47.4	46.7	44.0	41.7	40.6
51.5°	40.5	41.6	40.5	38.0	36.1	35.2
52°	34.7	35.9	34.7	32.5	30.9	30.1
52.5°	29.3	30.4	29.3	27.2	26.0	25.8
53°	24.7	25.5	24.7	22.7	21.7	21.8
53.5°	20.7	21.0	20.7	19.0	18.2	18.0
54°	16.9	16.9	16.9	15.4	14.9	14.6
54.5°	13.5	13.4	13.5	12.1	11.9	11.7
55°	10.4	10.8	10.4	9.3	9.1	9.2
55.5°	7.8	8.4	7.8	7.0	6.7	6.7
56°	5.9	6.4	5.9	5.3	4.8	4.5
56.5°	4.2	4.6	4.2	3.9	3.2	3.1
57°	2.8	2.8	2.8	2.5	2.2	2.4
57.5°	2.0	1.8	2.0	1.8	1.7	1.9
58°	1.6	1.3	1.6	1.5	1.4	1.5
58.5°	1.3	1.1	1.3	1.2	1.1	1.0
59°	1.0	0.9	1.0	0.9	0.9	0.9
59.5°	0.7	0.7	0.7	0.7	0.7	0.7
60°	0.6	0.6	0.6	0.6	0.6	0.6
60.5°	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.4	0.5	0.4	0.4	0.4
61.5°	0.4	0.4	0.4	0.4	0.4	0.4
62°	0.4	0.4	0.4	0.4	0.4	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.2	0.3	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775781

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.1	0.1	0.1	0.1	0.1	0.1
68°	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.0
73.5°	0.1	0.1	0.1	0.1	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	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
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	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
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	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
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775781
CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	487.9	487.5	487.3	487.9	488.5	487.9	487.3	487.5	487.9	487.5	487.3
22°	485.4	485.2	484.9	485.5	486.0	485.5	484.9	485.2	485.4	485.2	484.9



44°	163.2	165.0	168.4	169.4	169.6	169.4	168.4	165.0	163.2	165.0	168.4
44.5°	152.2	154.1	157.9	159.0	158.9	159.0	157.9	154.1	152.2	154.1	157.9



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	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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21.5°	487.9	488.5	487.9	487.3	487.5	487.9
22°	485.5	486.0	485.5	484.9	485.2	485.4



44°	169.4	169.6	169.4	168.4	165.0	163.2
44.5°	159.0	158.9	159.0	157.9	154.1	152.2

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66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.1	0.1

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)