

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: P775896

Luminaire Tested: HCDJBL5510CSD-HCD8TSQH-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B005-HCD4TSQC)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TSQH-1000lm-3000K
Description: 8 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

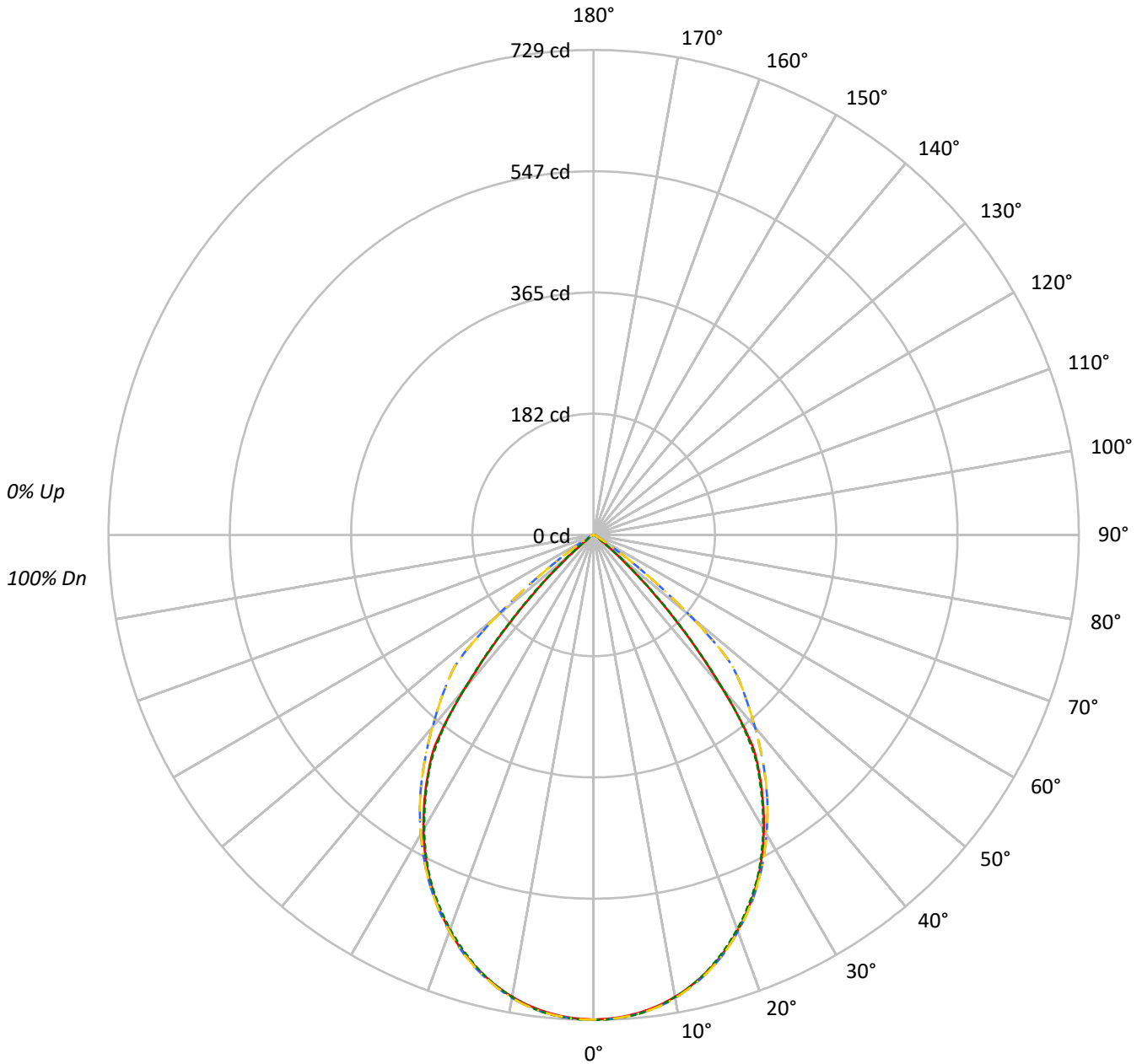
Lumens per Lamp: N/A
Luminaire Lumens: 1003.4 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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										
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			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58					58			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17473	17473	17473	17473
5°	17391	17427	17391	17427
10°	17163	17178	17163	17178
15°	16754	16734	16754	16734
20°	16150	16091	16150	16091
25°	15316	15266	15316	15266
30°	14165	14101	14165	14101
35°	12657	12593	12657	12593
40°	9400	9453	9400	9453
45°	4927	5049	4927	5049
50°	1597	1727	1597	1727
55°	531	485	531	485
60°	403	379	403	379
65°	306	295	306	295
70°	245	238	245	238
75°	195	195	195	195
80°	152	166	152	166
85°	110	110	110	110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	6.8
10°-20°	189.8	18.9
20°-30°	265.9	26.5
30°-40°	273.2	27.2
40°-50°	165.5	16.5
50°-60°	31.1	3.1
60°-70°	6.0	0.6
70°-80°	2.7	0.3
80°-90°	0.6	0.1
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°	524.3	52.3
0°-40°	797.5	79.5
0°-60°	994.1	99.1
0°-90°	1003.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	722	724	722	724	722	68
15°	675	674	675	674	675	190
25°	579	577	579	577	579	265
35°	432	430	432	430	432	264
45°	145	149	145	149	145	116
55°	13	12	13	12	13	14
65°	5	5	5	5	5	6
75°	2	2	2	2	2	2
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°	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7
0.5°	728.0	728.3	728.8	729.1	728.9	729.1	728.8	728.3	728.0	728.3	728.8
1°	727.9	728.2	728.6	728.9	728.8	728.9	728.6	728.2	727.9	728.2	728.6
1.5°	727.6	727.9	728.4	728.7	728.6	728.7	728.4	727.9	727.6	727.9	728.4
2°	727.2	727.5	728.0	728.4	728.2	728.4	728.0	727.5	727.2	727.5	728.0
2.5°	726.7	727.0	727.6	727.9	727.8	727.9	727.6	727.0	726.7	727.0	727.6
3°	726.1	726.5	727.0	727.4	727.3	727.4	727.0	726.5	726.1	726.5	727.0
3.5°	725.3	725.7	726.4	726.8	726.7	726.8	726.4	725.7	725.3	725.7	726.4
4°	724.5	724.9	725.5	726.1	726.0	726.1	725.5	724.9	724.5	724.9	725.5
4.5°	723.6	723.9	724.6	725.1	725.0	725.1	724.6	723.9	723.6	723.9	724.6
5°	722.5	722.9	723.7	724.2	724.0	724.2	723.7	722.9	722.5	722.9	723.7
5.5°	721.4	721.8	722.6	723.1	722.8	723.1	722.6	721.8	721.4	721.8	722.6
6°	719.9	720.4	721.4	721.9	721.6	721.9	721.4	720.4	719.9	720.4	721.4
6.5°	718.5	719.1	720.0	720.4	720.0	720.4	720.0	719.1	718.5	719.1	720.0
7°	717.0	717.6	718.5	718.8	718.4	718.8	718.5	717.6	717.0	717.6	718.5
7.5°	715.2	716.0	716.9	717.1	716.6	717.1	716.9	716.0	715.2	716.0	716.9
8°	713.4	714.2	715.1	715.2	714.7	715.2	715.1	714.2	713.4	714.2	715.1
8.5°	711.5	712.3	713.2	713.1	712.6	713.1	713.2	712.3	711.5	712.3	713.2
9°	709.4	710.2	711.2	711.0	710.3	711.0	711.2	710.2	709.4	710.2	711.2
9.5°	707.3	708.1	709.0	708.6	708.0	708.6	709.0	708.1	707.3	708.1	709.0
10°	704.9	706.0	706.7	706.3	705.5	706.3	706.7	706.0	704.9	706.0	706.7
10.5°	702.5	703.5	704.2	703.7	703.0	703.7	704.2	703.5	702.5	703.5	704.2
11°	699.9	701.1	701.7	701.1	700.2	701.1	701.7	701.1	699.9	701.1	701.7
11.5°	697.3	698.4	698.9	698.2	697.4	698.2	698.9	698.4	697.3	698.4	698.9
12°	694.4	695.7	696.1	695.3	694.5	695.3	696.1	695.7	694.4	695.7	696.1
12.5°	691.5	692.8	693.1	692.3	691.4	692.3	693.1	692.8	691.5	692.8	693.1
13°	688.4	689.7	690.0	689.1	688.2	689.1	690.0	689.7	688.4	689.7	690.0
13.5°	685.2	686.6	686.8	685.9	684.8	685.9	686.8	686.6	685.2	686.6	686.8
14°	681.9	683.4	683.5	682.5	681.4	682.5	683.5	683.4	681.9	683.4	683.5
14.5°	678.5	679.9	680.0	678.9	677.8	678.9	680.0	679.9	678.5	679.9	680.0
15°	674.9	676.5	676.6	675.2	674.1	675.2	676.6	676.5	674.9	676.5	676.6
15.5°	671.3	672.9	672.8	671.5	670.3	671.5	672.8	672.9	671.3	672.9	672.8
16°	667.5	669.1	669.0	667.6	666.4	667.6	669.0	669.1	667.5	669.1	669.0
16.5°	663.6	665.3	665.0	663.6	662.3	663.6	665.0	665.3	663.6	665.3	665.0
17°	659.6	661.3	661.1	659.4	658.1	659.4	661.1	661.3	659.6	661.3	661.1
17.5°	655.5	657.2	656.9	655.3	653.8	655.3	656.9	657.2	655.5	657.2	656.9
18°	651.2	652.9	652.5	650.9	649.3	650.9	652.5	652.9	651.2	652.9	652.5
18.5°	646.8	648.5	648.2	646.5	644.7	646.5	648.2	648.5	646.8	648.5	648.2
19°	642.3	644.1	643.7	641.9	640.2	641.9	643.7	644.1	642.3	644.1	643.7
19.5°	637.6	639.5	639.0	637.2	635.4	637.2	639.0	639.5	637.6	639.5	639.0
20°	632.9	634.9	634.3	632.5	630.6	632.5	634.3	634.9	632.9	634.9	634.3
20.5°	628.1	630.1	629.5	627.5	625.6	627.5	629.5	630.1	628.1	630.1	629.5
21°	623.1	625.1	624.6	622.5	620.5	622.5	624.6	625.1	623.1	625.1	624.6



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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°	607.5	609.7	609.1	606.9	605.0	606.9	609.1	609.7	607.5	609.7	609.1
23°	602.1	604.2	603.8	601.5	599.6	601.5	603.8	604.2	602.1	604.2	603.8
23.5°	596.5	598.8	598.4	596.1	594.2	596.1	598.4	598.8	596.5	598.8	598.4
24°	590.9	593.1	592.9	590.6	588.7	590.6	592.9	593.1	590.9	593.1	592.9
24.5°	585.0	587.4	587.3	585.1	582.9	585.1	587.3	587.4	585.0	587.4	587.3
25°	578.9	581.6	581.5	579.5	577.0	579.5	581.5	581.6	578.9	581.6	581.5
25.5°	572.9	575.7	575.7	573.5	571.1	573.5	575.7	575.7	572.9	575.7	575.7
26°	566.6	569.6	569.8	567.8	565.0	567.8	569.8	569.6	566.6	569.6	569.8
26.5°	560.3	563.3	563.7	561.8	558.5	561.8	563.7	563.3	560.3	563.3	563.7
27°	553.6	557.0	557.6	555.7	551.9	555.7	557.6	557.0	553.6	557.0	557.6
27.5°	547.1	550.6	551.5	549.4	545.3	549.4	551.5	550.6	547.1	550.6	551.5
28°	540.3	544.0	545.3	542.8	538.2	542.8	545.3	544.0	540.3	544.0	545.3
28.5°	533.3	537.2	538.9	536.2	531.1	536.2	538.9	537.2	533.3	537.2	538.9
29°	526.1	530.6	532.5	529.5	524.0	529.5	532.5	530.6	526.1	530.6	532.5
29.5°	518.9	523.8	526.2	522.4	516.6	522.4	526.2	523.8	518.9	523.8	526.2
30°	511.6	516.7	519.6	515.4	509.3	515.4	519.6	516.7	511.6	516.7	519.6
30.5°	504.2	509.6	513.0	508.1	501.7	508.1	513.0	509.6	504.2	509.6	513.0
31°	496.4	502.3	506.3	501.0	494.2	501.0	506.3	502.3	496.4	502.3	506.3
31.5°	488.9	495.1	499.7	493.7	486.4	493.7	499.7	495.1	488.9	495.1	499.7
32°	481.1	487.6	492.9	486.3	478.6	486.3	492.9	487.6	481.1	487.6	492.9
32.5°	473.3	480.1	486.1	478.7	470.7	478.7	486.1	480.1	473.3	480.1	486.1
33°	465.3	472.5	479.2	471.3	462.9	471.3	479.2	472.5	465.3	472.5	479.2
33.5°	457.3	465.1	472.1	463.8	454.8	463.8	472.1	465.1	457.3	465.1	472.1
34°	449.1	457.4	465.0	456.2	446.6	456.2	465.0	457.4	449.1	457.4	465.0
34.5°	440.9	449.7	457.9	448.7	438.4	448.7	457.9	449.7	440.9	449.7	457.9
35°	432.4	441.9	450.7	440.9	430.2	440.9	450.7	441.9	432.4	441.9	450.7
35.5°	424.3	434.3	443.3	433.3	422.0	433.3	443.3	434.3	424.3	434.3	443.3
36°	415.8	426.4	435.8	425.5	412.4	425.5	435.8	426.4	415.8	426.4	435.8
36.5°	406.7	418.4	428.6	417.7	401.4	417.7	428.6	418.4	406.7	418.4	428.6
37°	395.8	410.5	421.1	409.8	389.4	409.8	421.1	410.5	395.8	410.5	421.1
37.5°	381.5	402.5	413.8	401.8	377.0	401.8	413.8	402.5	381.5	402.5	413.8
38°	367.2	394.5	406.1	394.0	363.7	394.0	406.1	394.5	367.2	394.5	406.1
38.5°	351.2	386.4	398.8	385.3	350.1	385.3	398.8	386.4	351.2	386.4	398.8
39°	334.7	378.1	391.4	375.2	334.9	375.2	391.4	378.1	334.7	378.1	391.4
39.5°	317.5	365.9	384.2	363.9	318.9	363.9	384.2	365.9	317.5	365.9	384.2
40°	300.3	352.9	376.8	351.5	302.0	351.5	376.8	352.9	300.3	352.9	376.8
40.5°	283.2	338.1	369.6	338.4	285.2	338.4	369.6	338.1	283.2	338.1	369.6
41°	267.0	322.8	362.6	324.3	269.1	324.3	362.6	322.8	267.0	322.8	362.6
41.5°	250.9	307.1	355.7	309.5	253.1	309.5	355.7	307.1	250.9	307.1	355.7
42°	235.1	291.4	348.9	294.0	237.6	294.0	348.9	291.4	235.1	291.4	348.9
42.5°	219.4	275.9	342.2	278.5	221.9	278.5	342.2	275.9	219.4	275.9	342.2
43°	203.9	260.1	335.4	262.9	206.7	262.9	335.4	260.1	203.9	260.1	335.4
43.5°	188.3	244.8	328.8	247.6	191.4	247.6	328.8	244.8	188.3	244.8	328.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	145.3	200.4	308.8	203.8	148.9	203.8	308.8	200.4	145.3	200.4	308.8
45.5°	131.8	185.8	302.2	189.3	136.0	189.3	302.2	185.8	131.8	185.8	302.2
46°	119.3	171.7	295.4	175.1	123.5	175.1	295.4	171.7	119.3	171.7	295.4
46.5°	106.9	158.0	288.5	161.2	110.9	161.2	288.5	158.0	106.9	158.0	288.5
47°	94.8	144.6	278.8	147.6	98.7	147.6	278.8	144.6	94.8	144.6	278.8
47.5°	83.1	131.6	267.0	135.0	87.7	135.0	267.0	131.6	83.1	131.6	267.0
48°	73.2	119.1	252.9	122.5	78.1	122.5	252.9	119.1	73.2	119.1	252.9
48.5°	64.2	107.1	238.0	110.5	69.2	110.5	238.0	107.1	64.2	107.1	238.0
49°	56.1	95.5	222.4	98.7	61.0	98.7	222.4	95.5	56.1	95.5	222.4
49.5°	49.1	84.3	206.4	88.0	53.4	88.0	206.4	84.3	49.1	84.3	206.4
50°	42.8	73.8	190.2	77.8	46.3	77.8	190.2	73.8	42.8	73.8	190.2
50.5°	37.0	64.3	174.1	68.5	39.7	68.5	174.1	64.3	37.0	64.3	174.1
51°	31.7	55.8	158.3	59.7	33.4	59.7	158.3	55.8	31.7	55.8	158.3
51.5°	27.4	48.4	143.5	51.7	28.1	51.7	143.5	48.4	27.4	48.4	143.5
52°	23.2	41.8	130.0	44.8	23.9	44.8	130.0	41.8	23.2	41.8	130.0
52.5°	19.5	36.0	116.7	38.4	21.0	38.4	116.7	36.0	19.5	36.0	116.7
53°	16.8	30.7	104.4	32.4	18.3	32.4	104.4	30.7	16.8	30.7	104.4
53.5°	14.4	26.2	92.2	26.9	15.4	26.9	92.2	26.2	14.4	26.2	92.2
54°	13.8	21.9	81.1	22.0	12.7	22.0	81.1	21.9	13.8	21.9	81.1
54.5°	13.2	18.4	70.5	18.3	12.0	18.3	70.5	18.4	13.2	18.4	70.5
55°	12.7	15.2	61.1	15.3	11.6	15.3	61.1	15.2	12.7	15.2	61.1
55.5°	12.1	13.0	52.6	13.2	11.1	13.2	52.6	13.0	12.1	13.0	52.6
56°	11.6	11.9	45.0	11.5	10.7	11.5	45.0	11.9	11.6	11.9	45.0
56.5°	11.1	11.4	38.2	10.7	10.3	10.7	38.2	11.4	11.1	11.4	38.2
57°	10.7	11.0	32.4	10.3	9.9	10.3	32.4	11.0	10.7	11.0	32.4
57.5°	10.2	10.6	27.4	9.9	9.5	9.9	27.4	10.6	10.2	10.6	27.4
58°	9.8	10.2	23.4	9.6	9.2	9.6	23.4	10.2	9.8	10.2	23.4
58.5°	9.4	9.8	19.7	9.2	8.8	9.2	19.7	9.8	9.4	9.8	19.7
59°	9.1	9.5	16.7	8.9	8.5	8.9	16.7	9.5	9.1	9.5	16.7
59.5°	8.7	9.2	14.2	8.6	8.2	8.6	14.2	9.2	8.7	9.2	14.2
60°	8.4	8.8	11.9	8.3	7.9	8.3	11.9	8.8	8.4	8.8	11.9
60.5°	8.0	8.5	10.6	8.0	7.4	8.0	10.6	8.5	8.0	8.5	10.6
61°	7.7	8.2	9.6	7.8	7.2	7.8	9.6	8.2	7.7	8.2	9.6
61.5°	7.3	7.9	8.8	7.4	6.9	7.4	8.8	7.9	7.3	7.9	8.8
62°	7.0	7.7	8.3	7.1	6.6	7.1	8.3	7.7	7.0	7.7	8.3
62.5°	6.7	7.3	7.9	6.9	6.4	6.9	7.9	7.3	6.7	7.3	7.9
63°	6.4	7.0	7.5	6.7	6.1	6.7	7.5	7.0	6.4	7.0	7.5
63.5°	6.2	6.8	7.2	6.4	5.9	6.4	7.2	6.8	6.2	6.8	7.2
64°	5.9	6.5	7.0	6.2	5.6	6.2	7.0	6.5	5.9	6.5	7.0
64.5°	5.7	6.3	6.7	6.0	5.4	6.0	6.7	6.3	5.7	6.3	6.7
65°	5.4	6.1	6.5	5.8	5.2	5.8	6.5	6.1	5.4	6.1	6.5
65.5°	5.2	5.8	6.2	5.6	5.0	5.6	6.2	5.8	5.2	5.8	6.2
66°	5.0	5.6	6.0	5.4	4.8	5.4	6.0	5.6	5.0	5.6	6.0



TEST NUMBER: P775896
 CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4.4	5.0	5.4	4.8	4.2	4.8	5.4	5.0	4.4	5.0	5.4
68°	4.2	4.8	5.2	4.6	4.1	4.6	5.2	4.8	4.2	4.8	5.2
68.5°	4.0	4.6	5.0	4.5	3.9	4.5	5.0	4.6	4.0	4.6	5.0
69°	3.9	4.4	4.8	4.3	3.7	4.3	4.8	4.4	3.9	4.4	4.8
69.5°	3.7	4.3	4.6	4.1	3.6	4.1	4.6	4.3	3.7	4.3	4.6
70°	3.5	4.1	4.4	4.0	3.4	4.0	4.4	4.1	3.5	4.1	4.4
70.5°	3.4	3.9	4.3	3.8	3.3	3.8	4.3	3.9	3.4	3.9	4.3
71°	3.2	3.8	4.1	3.7	3.2	3.7	4.1	3.8	3.2	3.8	4.1
71.5°	3.1	3.6	3.9	3.5	3.0	3.5	3.9	3.6	3.1	3.6	3.9
72°	2.9	3.5	3.8	3.4	2.9	3.4	3.8	3.5	2.9	3.5	3.8
72.5°	2.8	3.3	3.6	3.2	2.8	3.2	3.6	3.3	2.8	3.3	3.6
73°	2.7	3.2	3.4	3.1	2.6	3.1	3.4	3.2	2.7	3.2	3.4
73.5°	2.4	3.0	3.3	3.0	2.4	3.0	3.3	3.0	2.4	3.0	3.3
74°	2.3	2.9	3.1	2.8	2.3	2.8	3.1	2.9	2.3	2.9	3.1
74.5°	2.2	2.8	3.0	2.7	2.2	2.7	3.0	2.8	2.2	2.8	3.0
75°	2.1	2.6	2.8	2.6	2.1	2.6	2.8	2.6	2.1	2.6	2.8
75.5°	2.0	2.4	2.7	2.4	2.0	2.4	2.7	2.4	2.0	2.4	2.7
76°	1.9	2.3	2.6	2.2	1.9	2.2	2.6	2.3	1.9	2.3	2.6
76.5°	1.8	2.1	2.3	2.1	1.8	2.1	2.3	2.1	1.8	2.1	2.3
77°	1.6	2.0	2.2	2.0	1.7	2.0	2.2	2.0	1.6	2.0	2.2
77.5°	1.5	1.9	2.1	1.9	1.6	1.9	2.1	1.9	1.5	1.9	2.1
78°	1.5	1.8	1.9	1.8	1.5	1.8	1.9	1.8	1.5	1.8	1.9
78.5°	1.4	1.7	1.8	1.7	1.4	1.7	1.8	1.7	1.4	1.7	1.8
79°	1.3	1.6	1.7	1.6	1.3	1.6	1.7	1.6	1.3	1.6	1.7
79.5°	1.2	1.4	1.6	1.5	1.2	1.5	1.6	1.4	1.2	1.4	1.6
80°	1.1	1.3	1.5	1.4	1.2	1.4	1.5	1.3	1.1	1.3	1.5
80.5°	1.0	1.2	1.4	1.3	1.1	1.3	1.4	1.2	1.0	1.2	1.4
81°	0.9	1.1	1.3	1.2	1.0	1.2	1.3	1.1	0.9	1.1	1.3
81.5°	0.9	1.0	1.2	1.1	0.9	1.1	1.2	1.0	0.9	1.0	1.2
82°	0.8	0.9	1.1	1.0	0.9	1.0	1.1	0.9	0.8	0.9	1.1
82.5°	0.7	0.8	1.0	0.9	0.8	0.9	1.0	0.8	0.7	0.8	1.0
83°	0.6	0.8	0.9	0.8	0.7	0.8	0.9	0.8	0.6	0.8	0.9
83.5°	0.6	0.7	0.8	0.8	0.6	0.8	0.8	0.7	0.6	0.7	0.8
84°	0.5	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.5	0.6	0.7
84.5°	0.4	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.5	0.6
85°	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.5
85.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4
86°	0.2	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.2	0.3	0.4
86.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3
87°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2
87.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
88°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
88.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1



TEST NUMBER: P775896
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-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: P775896

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	728.7	728.7	728.7	728.7	728.7	728.7
0.5°	729.1	728.9	729.1	728.8	728.3	728.0
1°	728.9	728.8	728.9	728.6	728.2	727.9
1.5°	728.7	728.6	728.7	728.4	727.9	727.6
2°	728.4	728.2	728.4	728.0	727.5	727.2
2.5°	727.9	727.8	727.9	727.6	727.0	726.7
3°	727.4	727.3	727.4	727.0	726.5	726.1
3.5°	726.8	726.7	726.8	726.4	725.7	725.3
4°	726.1	726.0	726.1	725.5	724.9	724.5
4.5°	725.1	725.0	725.1	724.6	723.9	723.6
5°	724.2	724.0	724.2	723.7	722.9	722.5
5.5°	723.1	722.8	723.1	722.6	721.8	721.4
6°	721.9	721.6	721.9	721.4	720.4	719.9
6.5°	720.4	720.0	720.4	720.0	719.1	718.5
7°	718.8	718.4	718.8	718.5	717.6	717.0
7.5°	717.1	716.6	717.1	716.9	716.0	715.2
8°	715.2	714.7	715.2	715.1	714.2	713.4
8.5°	713.1	712.6	713.1	713.2	712.3	711.5
9°	711.0	710.3	711.0	711.2	710.2	709.4
9.5°	708.6	708.0	708.6	709.0	708.1	707.3
10°	706.3	705.5	706.3	706.7	706.0	704.9
10.5°	703.7	703.0	703.7	704.2	703.5	702.5
11°	701.1	700.2	701.1	701.7	701.1	699.9
11.5°	698.2	697.4	698.2	698.9	698.4	697.3
12°	695.3	694.5	695.3	696.1	695.7	694.4
12.5°	692.3	691.4	692.3	693.1	692.8	691.5
13°	689.1	688.2	689.1	690.0	689.7	688.4
13.5°	685.9	684.8	685.9	686.8	686.6	685.2
14°	682.5	681.4	682.5	683.5	683.4	681.9
14.5°	678.9	677.8	678.9	680.0	679.9	678.5
15°	675.2	674.1	675.2	676.6	676.5	674.9
15.5°	671.5	670.3	671.5	672.8	672.9	671.3
16°	667.6	666.4	667.6	669.0	669.1	667.5
16.5°	663.6	662.3	663.6	665.0	665.3	663.6
17°	659.4	658.1	659.4	661.1	661.3	659.6
17.5°	655.3	653.8	655.3	656.9	657.2	655.5
18°	650.9	649.3	650.9	652.5	652.9	651.2
18.5°	646.5	644.7	646.5	648.2	648.5	646.8
19°	641.9	640.2	641.9	643.7	644.1	642.3
19.5°	637.2	635.4	637.2	639.0	639.5	637.6
20°	632.5	630.6	632.5	634.3	634.9	632.9
20.5°	627.5	625.6	627.5	629.5	630.1	628.1
21°	622.5	620.5	622.5	624.6	625.1	623.1

TEST NUMBER: P775896

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	606.9	605.0	606.9	609.1	609.7	607.5
23°	601.5	599.6	601.5	603.8	604.2	602.1
23.5°	596.1	594.2	596.1	598.4	598.8	596.5
24°	590.6	588.7	590.6	592.9	593.1	590.9
24.5°	585.1	582.9	585.1	587.3	587.4	585.0
25°	579.5	577.0	579.5	581.5	581.6	578.9
25.5°	573.5	571.1	573.5	575.7	575.7	572.9
26°	567.8	565.0	567.8	569.8	569.6	566.6
26.5°	561.8	558.5	561.8	563.7	563.3	560.3
27°	555.7	551.9	555.7	557.6	557.0	553.6
27.5°	549.4	545.3	549.4	551.5	550.6	547.1
28°	542.8	538.2	542.8	545.3	544.0	540.3
28.5°	536.2	531.1	536.2	538.9	537.2	533.3
29°	529.5	524.0	529.5	532.5	530.6	526.1
29.5°	522.4	516.6	522.4	526.2	523.8	518.9
30°	515.4	509.3	515.4	519.6	516.7	511.6
30.5°	508.1	501.7	508.1	513.0	509.6	504.2
31°	501.0	494.2	501.0	506.3	502.3	496.4
31.5°	493.7	486.4	493.7	499.7	495.1	488.9
32°	486.3	478.6	486.3	492.9	487.6	481.1
32.5°	478.7	470.7	478.7	486.1	480.1	473.3
33°	471.3	462.9	471.3	479.2	472.5	465.3
33.5°	463.8	454.8	463.8	472.1	465.1	457.3
34°	456.2	446.6	456.2	465.0	457.4	449.1
34.5°	448.7	438.4	448.7	457.9	449.7	440.9
35°	440.9	430.2	440.9	450.7	441.9	432.4
35.5°	433.3	422.0	433.3	443.3	434.3	424.3
36°	425.5	412.4	425.5	435.8	426.4	415.8
36.5°	417.7	401.4	417.7	428.6	418.4	406.7
37°	409.8	389.4	409.8	421.1	410.5	395.8
37.5°	401.8	377.0	401.8	413.8	402.5	381.5
38°	394.0	363.7	394.0	406.1	394.5	367.2
38.5°	385.3	350.1	385.3	398.8	386.4	351.2
39°	375.2	334.9	375.2	391.4	378.1	334.7
39.5°	363.9	318.9	363.9	384.2	365.9	317.5
40°	351.5	302.0	351.5	376.8	352.9	300.3
40.5°	338.4	285.2	338.4	369.6	338.1	283.2
41°	324.3	269.1	324.3	362.6	322.8	267.0
41.5°	309.5	253.1	309.5	355.7	307.1	250.9
42°	294.0	237.6	294.0	348.9	291.4	235.1
42.5°	278.5	221.9	278.5	342.2	275.9	219.4
43°	262.9	206.7	262.9	335.4	260.1	203.9
43.5°	247.6	191.4	247.6	328.8	244.8	188.3



TEST NUMBER: P775896

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	203.8	148.9	203.8	308.8	200.4	145.3
45.5°	189.3	136.0	189.3	302.2	185.8	131.8
46°	175.1	123.5	175.1	295.4	171.7	119.3
46.5°	161.2	110.9	161.2	288.5	158.0	106.9
47°	147.6	98.7	147.6	278.8	144.6	94.8
47.5°	135.0	87.7	135.0	267.0	131.6	83.1
48°	122.5	78.1	122.5	252.9	119.1	73.2
48.5°	110.5	69.2	110.5	238.0	107.1	64.2
49°	98.7	61.0	98.7	222.4	95.5	56.1
49.5°	88.0	53.4	88.0	206.4	84.3	49.1
50°	77.8	46.3	77.8	190.2	73.8	42.8
50.5°	68.5	39.7	68.5	174.1	64.3	37.0
51°	59.7	33.4	59.7	158.3	55.8	31.7
51.5°	51.7	28.1	51.7	143.5	48.4	27.4
52°	44.8	23.9	44.8	130.0	41.8	23.2
52.5°	38.4	21.0	38.4	116.7	36.0	19.5
53°	32.4	18.3	32.4	104.4	30.7	16.8
53.5°	26.9	15.4	26.9	92.2	26.2	14.4
54°	22.0	12.7	22.0	81.1	21.9	13.8
54.5°	18.3	12.0	18.3	70.5	18.4	13.2
55°	15.3	11.6	15.3	61.1	15.2	12.7
55.5°	13.2	11.1	13.2	52.6	13.0	12.1
56°	11.5	10.7	11.5	45.0	11.9	11.6
56.5°	10.7	10.3	10.7	38.2	11.4	11.1
57°	10.3	9.9	10.3	32.4	11.0	10.7
57.5°	9.9	9.5	9.9	27.4	10.6	10.2
58°	9.6	9.2	9.6	23.4	10.2	9.8
58.5°	9.2	8.8	9.2	19.7	9.8	9.4
59°	8.9	8.5	8.9	16.7	9.5	9.1
59.5°	8.6	8.2	8.6	14.2	9.2	8.7
60°	8.3	7.9	8.3	11.9	8.8	8.4
60.5°	8.0	7.4	8.0	10.6	8.5	8.0
61°	7.8	7.2	7.8	9.6	8.2	7.7
61.5°	7.4	6.9	7.4	8.8	7.9	7.3
62°	7.1	6.6	7.1	8.3	7.7	7.0
62.5°	6.9	6.4	6.9	7.9	7.3	6.7
63°	6.7	6.1	6.7	7.5	7.0	6.4
63.5°	6.4	5.9	6.4	7.2	6.8	6.2
64°	6.2	5.6	6.2	7.0	6.5	5.9
64.5°	6.0	5.4	6.0	6.7	6.3	5.7
65°	5.8	5.2	5.8	6.5	6.1	5.4
65.5°	5.6	5.0	5.6	6.2	5.8	5.2
66°	5.4	4.8	5.4	6.0	5.6	5.0



TEST NUMBER: P775896

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	4.8	4.2	4.8	5.4	5.0	4.4
68°	4.6	4.1	4.6	5.2	4.8	4.2
68.5°	4.5	3.9	4.5	5.0	4.6	4.0
69°	4.3	3.7	4.3	4.8	4.4	3.9
69.5°	4.1	3.6	4.1	4.6	4.3	3.7
70°	4.0	3.4	4.0	4.4	4.1	3.5
70.5°	3.8	3.3	3.8	4.3	3.9	3.4
71°	3.7	3.2	3.7	4.1	3.8	3.2
71.5°	3.5	3.0	3.5	3.9	3.6	3.1
72°	3.4	2.9	3.4	3.8	3.5	2.9
72.5°	3.2	2.8	3.2	3.6	3.3	2.8
73°	3.1	2.6	3.1	3.4	3.2	2.7
73.5°	3.0	2.4	3.0	3.3	3.0	2.4
74°	2.8	2.3	2.8	3.1	2.9	2.3
74.5°	2.7	2.2	2.7	3.0	2.8	2.2
75°	2.6	2.1	2.6	2.8	2.6	2.1
75.5°	2.4	2.0	2.4	2.7	2.4	2.0
76°	2.2	1.9	2.2	2.6	2.3	1.9
76.5°	2.1	1.8	2.1	2.3	2.1	1.8
77°	2.0	1.7	2.0	2.2	2.0	1.6
77.5°	1.9	1.6	1.9	2.1	1.9	1.5
78°	1.8	1.5	1.8	1.9	1.8	1.5
78.5°	1.7	1.4	1.7	1.8	1.7	1.4
79°	1.6	1.3	1.6	1.7	1.6	1.3
79.5°	1.5	1.2	1.5	1.6	1.4	1.2
80°	1.4	1.2	1.4	1.5	1.3	1.1
80.5°	1.3	1.1	1.3	1.4	1.2	1.0
81°	1.2	1.0	1.2	1.3	1.1	0.9
81.5°	1.1	0.9	1.1	1.2	1.0	0.9
82°	1.0	0.9	1.0	1.1	0.9	0.8
82.5°	0.9	0.8	0.9	1.0	0.8	0.7
83°	0.8	0.7	0.8	0.9	0.8	0.6
83.5°	0.8	0.6	0.8	0.8	0.7	0.6
84°	0.7	0.6	0.7	0.7	0.6	0.5
84.5°	0.6	0.5	0.6	0.6	0.5	0.4
85°	0.5	0.4	0.5	0.5	0.4	0.4
85.5°	0.4	0.4	0.4	0.4	0.3	0.3
86°	0.4	0.3	0.4	0.4	0.3	0.2
86.5°	0.3	0.3	0.3	0.3	0.2	0.2
87°	0.2	0.2	0.2	0.2	0.2	0.1
87.5°	0.2	0.2	0.2	0.2	0.1	0.1
88°	0.1	0.1	0.1	0.1	0.1	0.1
88.5°	0.1	0.1	0.1	0.1	0.0	0.0



TEST NUMBER: P775896
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-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°	618.1	620.1	619.5	617.4	615.5	617.4	619.5	620.1	618.1	620.1	619.5
22°	612.7	615.0	614.3	612.2	610.2	612.2	614.3	615.0	612.7	615.0	614.3



44°	173.3	229.9	322.1	232.9	176.5	232.9	322.1	229.9	173.3	229.9	322.1
44.5°	159.2	215.4	315.5	218.3	161.9	218.3	315.5	215.4	159.2	215.4	315.5



66.5°	4.8	5.4	5.8	5.2	4.6	5.2	5.8	5.4	4.8	5.4	5.8
67°	4.6	5.2	5.6	5.0	4.4	5.0	5.6	5.2	4.6	5.2	5.6



89°	0.0	0.0	0.0	0.0	0.1	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°	617.4	615.5	617.4	619.5	620.1	618.1
22°	612.2	610.2	612.2	614.3	615.0	612.7



44°	232.9	176.5	232.9	322.1	229.9	173.3
44.5°	218.3	161.9	218.3	315.5	215.4	159.2

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66.5°	5.2	4.6	5.2	5.8	5.4	4.8
67°	5.0	4.4	5.0	5.6	5.2	4.6

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89°	0.0	0.1	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)