

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: P775905

Luminaire Tested: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B024-HCD8TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K
Description: 8 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 734.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

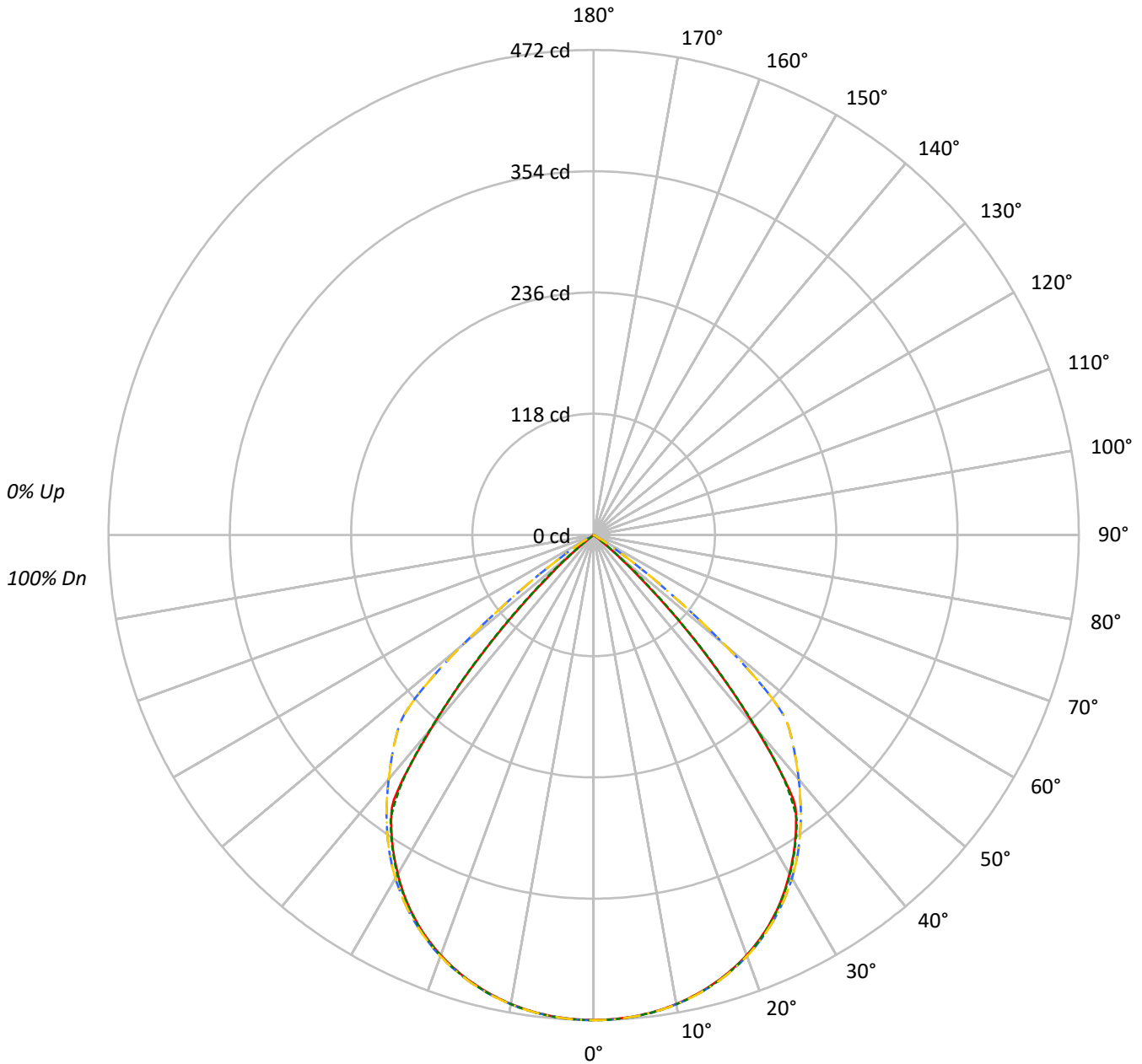
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775905

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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84	84	84	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76	76	76	76
4	93	85	78	73	91	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62	62	62	62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57	57	57	57
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52	52	52	52
8	72	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	47	47	47	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44	44
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11325	11325	11325	11325
5°	11313	11320	11313	11320
10°	11285	11293	11285	11293
15°	11221	11231	11221	11231
20°	11105	11115	11105	11115
25°	10898	10911	10898	10911
30°	10549	10571	10549	10571
35°	10052	10081	10052	10081
40°	7703	7769	7703	7769
45°	3822	3920	3822	3920
50°	839	1022	839	1022
55°	13	17	13	17
60°	10	14	10	14
65°	11	11	11	11
70°	7	7	7	7
75°	9	9	9	9
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	6.1
10°-20°	127.6	17.4
20°-30°	190.0	25.9
30°-40°	214.9	29.3
40°-50°	137.1	18.7
50°-60°	19.4	2.6
60°-70°	0.2	0.0
70°-80°	0.1	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°	362.2	49.4
0°-40°	577.1	78.6
0°-60°	733.7	100.0
0°-90°	734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	472	472	472	472	472	
5°	470	470	470	470	470	45
15°	452	452	452	452	452	127
25°	412	412	412	412	412	189
35°	343	344	343	344	343	208
45°	113	116	113	116	113	90
55°	0	0	0	0	0	3
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°	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3
0.5°	472.1	472.2	472.3	472.4	472.4	472.4	472.3	472.2	472.1	472.2	472.3
1°	472.0	472.1	472.2	472.3	472.3	472.3	472.2	472.1	472.0	472.1	472.2
1.5°	471.9	472.0	472.1	472.2	472.2	472.2	472.1	472.0	471.9	472.0	472.1
2°	471.8	471.8	472.0	472.1	472.0	472.1	472.0	471.8	471.8	471.8	472.0
2.5°	471.6	471.7	471.8	471.9	471.9	471.9	471.8	471.7	471.6	471.7	471.8
3°	471.4	471.4	471.6	471.7	471.6	471.7	471.6	471.4	471.4	471.4	471.6
3.5°	471.1	471.2	471.3	471.4	471.4	471.4	471.3	471.2	471.1	471.2	471.3
4°	470.8	470.9	471.0	471.1	471.0	471.1	471.0	470.9	470.8	470.9	471.0
4.5°	470.4	470.5	470.6	470.7	470.7	470.7	470.6	470.5	470.4	470.5	470.6
5°	470.0	470.1	470.3	470.3	470.3	470.3	470.3	470.1	470.0	470.1	470.3
5.5°	469.6	469.7	469.8	469.9	469.8	469.9	469.8	469.7	469.6	469.7	469.8
6°	469.1	469.2	469.3	469.4	469.4	469.4	469.3	469.2	469.1	469.2	469.3
6.5°	468.6	468.7	468.8	468.9	468.8	468.9	468.8	468.7	468.6	468.7	468.8
7°	468.0	468.1	468.3	468.3	468.3	468.3	468.3	468.1	468.0	468.1	468.3
7.5°	467.4	467.5	467.6	467.7	467.6	467.7	467.6	467.5	467.4	467.5	467.6
8°	466.7	466.8	467.0	467.0	467.0	467.0	467.0	466.8	466.7	466.8	467.0
8.5°	466.0	466.1	466.3	466.3	466.2	466.3	466.3	466.1	466.0	466.1	466.3
9°	465.2	465.3	465.5	465.6	465.5	465.6	465.5	465.3	465.2	465.3	465.5
9.5°	464.4	464.5	464.7	464.8	464.6	464.8	464.7	464.5	464.4	464.5	464.7
10°	463.5	463.7	463.9	463.9	463.8	463.9	463.9	463.7	463.5	463.7	463.9
10.5°	462.6	462.8	463.0	463.0	462.9	463.0	463.0	462.8	462.6	462.8	463.0
11°	461.6	461.8	462.1	462.0	461.9	462.0	462.1	461.8	461.6	461.8	462.1
11.5°	460.6	460.8	461.1	461.0	460.9	461.0	461.1	460.8	460.6	460.8	461.1
12°	459.5	459.7	460.0	460.0	459.8	460.0	460.0	459.7	459.5	459.7	460.0
12.5°	458.4	458.6	458.9	458.9	458.7	458.9	458.9	458.6	458.4	458.6	458.9
13°	457.2	457.5	457.8	457.8	457.6	457.8	457.8	457.5	457.2	457.5	457.8
13.5°	456.0	456.3	456.6	456.6	456.4	456.6	456.6	456.3	456.0	456.3	456.6
14°	454.7	455.0	455.3	455.3	455.1	455.3	455.3	455.0	454.7	455.0	455.3
14.5°	453.4	453.7	454.0	454.0	453.8	454.0	454.0	453.7	453.4	453.7	454.0
15°	452.0	452.3	452.7	452.6	452.4	452.6	452.7	452.3	452.0	452.3	452.7
15.5°	450.6	450.9	451.3	451.2	451.0	451.2	451.3	450.9	450.6	450.9	451.3
16°	449.1	449.4	449.8	449.8	449.5	449.8	449.8	449.4	449.1	449.4	449.8
16.5°	447.6	447.9	448.3	448.3	448.0	448.3	448.3	447.9	447.6	447.9	448.3
17°	445.9	446.3	446.8	446.7	446.4	446.7	446.8	446.3	445.9	446.3	446.8
17.5°	444.3	444.7	445.1	445.1	444.8	445.1	445.1	444.7	444.3	444.7	445.1
18°	442.6	443.0	443.5	443.4	443.0	443.4	443.5	443.0	442.6	443.0	443.5
18.5°	440.8	441.3	441.7	441.6	441.2	441.6	441.7	441.3	440.8	441.3	441.7
19°	439.0	439.5	439.9	439.8	439.4	439.8	439.9	439.5	439.0	439.5	439.9
19.5°	437.1	437.6	438.1	438.0	437.6	438.0	438.1	437.6	437.1	437.6	438.1
20°	435.2	435.7	436.2	436.1	435.6	436.1	436.2	435.7	435.2	435.7	436.2
20.5°	433.1	433.7	434.3	434.1	433.6	434.1	434.3	433.7	433.1	433.7	434.3
21°	431.0	431.7	432.3	432.1	431.5	432.1	432.3	431.7	431.0	431.7	432.3



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CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	424.4	425.2	425.9	425.6	424.9	425.6	425.9	425.2	424.4	425.2	425.9
23°	422.0	422.9	423.7	423.3	422.5	423.3	423.7	422.9	422.0	422.9	423.7
23.5°	419.6	420.6	421.4	420.9	420.1	420.9	421.4	420.6	419.6	420.6	421.4
24°	417.2	418.1	419.0	418.5	417.6	418.5	419.0	418.1	417.2	418.1	419.0
24.5°	414.6	415.6	416.6	416.0	415.1	416.0	416.6	415.6	414.6	415.6	416.6
25°	411.9	413.1	414.1	413.4	412.4	413.4	414.1	413.1	411.9	413.1	414.1
25.5°	409.1	410.5	411.6	410.8	409.7	410.8	411.6	410.5	409.1	410.5	411.6
26°	406.4	407.8	409.0	408.1	407.0	408.1	409.0	407.8	406.4	407.8	409.0
26.5°	403.4	405.0	406.3	405.3	404.1	405.3	406.3	405.0	403.4	405.0	406.3
27°	400.5	402.1	403.6	402.4	401.1	402.4	403.6	402.1	400.5	402.1	403.6
27.5°	397.5	399.2	400.8	399.5	398.1	399.5	400.8	399.2	397.5	399.2	400.8
28°	394.3	396.2	397.9	396.5	395.0	396.5	397.9	396.2	394.3	396.2	397.9
28.5°	391.1	393.1	395.0	393.5	391.8	393.5	395.0	393.1	391.1	393.1	395.0
29°	387.8	389.9	392.0	390.3	388.6	390.3	392.0	389.9	387.8	389.9	392.0
29.5°	384.5	386.7	388.9	387.1	385.2	387.1	388.9	386.7	384.5	386.7	388.9
30°	381.0	383.4	385.8	383.9	381.8	383.9	385.8	383.4	381.0	383.4	385.8
30.5°	377.5	380.1	382.6	380.5	378.4	380.5	382.6	380.1	377.5	380.1	382.6
31°	374.0	376.6	379.3	377.1	374.9	377.1	379.3	376.6	374.0	376.6	379.3
31.5°	370.4	373.2	376.0	373.7	371.2	373.7	376.0	373.2	370.4	373.2	376.0
32°	366.8	369.7	372.6	370.2	367.6	370.2	372.6	369.7	366.8	369.7	372.6
32.5°	363.1	366.1	369.1	366.6	363.9	366.6	369.1	366.1	363.1	366.1	369.1
33°	359.3	362.5	365.6	363.0	360.2	363.0	365.6	362.5	359.3	362.5	365.6
33.5°	355.4	358.8	361.9	359.4	356.4	359.4	361.9	358.8	355.4	358.8	361.9
34°	351.4	355.2	358.2	355.7	352.5	355.7	358.2	355.2	351.4	355.2	358.2
34.5°	347.4	351.4	354.5	351.9	348.5	351.9	354.5	351.4	347.4	351.4	354.5
35°	343.4	347.6	350.6	348.1	344.4	348.1	350.6	347.6	343.4	347.6	350.6
35.5°	339.2	343.8	346.8	344.3	340.2	344.3	346.8	343.8	339.2	343.8	346.8
36°	335.0	339.9	342.9	340.4	333.5	340.4	342.9	339.9	335.0	339.9	342.9
36.5°	330.0	335.8	338.9	336.4	326.1	336.4	338.9	335.8	330.0	335.8	338.9
37°	323.1	331.7	334.9	332.4	317.4	332.4	334.9	331.7	323.1	331.7	334.9
37.5°	312.6	327.6	330.8	328.2	309.0	328.2	330.8	327.6	312.6	327.6	330.8
38°	301.1	323.5	326.7	323.5	299.3	323.5	326.7	323.5	301.1	323.5	326.7
38.5°	287.6	319.1	322.6	316.8	288.3	316.8	322.6	319.1	287.6	319.1	322.6
39°	273.9	313.3	318.6	309.0	276.0	309.0	318.6	313.3	273.9	313.3	318.6
39.5°	260.0	305.4	314.4	300.8	262.3	300.8	314.4	305.4	260.0	305.4	314.4
40°	246.1	295.1	310.2	292.0	248.2	292.0	310.2	295.1	246.1	295.1	310.2
40.5°	232.1	283.2	306.2	282.1	233.8	282.1	306.2	283.2	232.1	283.2	306.2
41°	217.9	270.3	302.1	271.1	220.0	271.1	302.1	270.3	217.9	270.3	302.1
41.5°	204.2	257.3	298.0	259.0	206.4	259.0	298.0	257.3	204.2	257.3	298.0
42°	190.3	244.2	294.0	245.9	193.1	245.9	294.0	244.2	190.3	244.2	294.0
42.5°	176.9	231.2	290.0	232.6	179.9	232.6	290.0	231.2	176.9	231.2	290.0
43°	163.5	217.9	286.0	219.1	166.5	219.1	286.0	217.9	163.5	217.9	286.0
43.5°	150.4	204.6	281.9	206.1	153.2	206.1	281.9	204.6	150.4	204.6	281.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	112.7	165.6	269.8	168.1	115.6	168.1	269.8	165.6	112.7	165.6	269.8
45.5°	100.8	153.1	265.7	155.4	104.0	155.4	265.7	153.1	100.8	153.1	265.7
46°	89.5	140.8	260.4	143.1	92.8	143.1	260.4	140.8	89.5	140.8	260.4
46.5°	78.6	128.6	254.2	131.0	82.0	131.0	254.2	128.6	78.6	128.6	254.2
47°	67.8	116.6	245.5	119.1	72.5	119.1	245.5	116.6	67.8	116.6	245.5
47.5°	57.5	104.9	235.8	107.6	64.4	107.6	235.8	104.9	57.5	104.9	235.8
48°	48.5	93.8	224.1	96.4	56.4	96.4	224.1	93.8	48.5	93.8	224.1
48.5°	40.3	83.2	211.3	85.8	48.4	85.8	211.3	83.2	40.3	83.2	211.3
49°	34.0	72.7	196.8	75.7	40.4	75.7	196.8	72.7	34.0	72.7	196.8
49.5°	28.1	62.5	182.1	66.3	33.3	66.3	182.1	62.5	28.1	62.5	182.1
50°	22.5	52.9	166.9	58.1	27.4	58.1	166.9	52.9	22.5	52.9	166.9
50.5°	17.9	44.3	152.0	50.4	21.6	50.4	152.0	44.3	17.9	44.3	152.0
51°	13.4	37.0	137.5	43.0	16.4	43.0	137.5	37.0	13.4	37.0	137.5
51.5°	9.6	30.9	124.0	36.1	12.9	36.1	124.0	30.9	9.6	30.9	124.0
52°	5.8	25.1	110.8	29.8	10.3	29.8	110.8	25.1	5.8	25.1	110.8
52.5°	2.1	20.2	98.0	24.1	7.7	24.1	98.0	20.2	2.1	20.2	98.0
53°	1.2	15.7	85.9	19.2	5.2	19.2	85.9	15.7	1.2	15.7	85.9
53.5°	0.9	11.6	75.2	14.6	3.0	14.6	75.2	11.6	0.9	11.6	75.2
54°	0.6	8.0	65.1	10.7	0.8	10.7	65.1	8.0	0.6	8.0	65.1
54.5°	0.3	4.4	55.7	8.0	0.4	8.0	55.7	4.4	0.3	4.4	55.7
55°	0.3	1.5	47.2	5.4	0.4	5.4	47.2	1.5	0.3	1.5	47.2
55.5°	0.3	0.9	39.1	3.3	0.4	3.3	39.1	0.9	0.3	0.9	39.1
56°	0.3	0.7	32.0	2.0	0.3	2.0	32.0	0.7	0.3	0.7	32.0
56.5°	0.3	0.4	26.4	0.8	0.3	0.8	26.4	0.4	0.3	0.4	26.4
57°	0.3	0.3	21.1	0.5	0.3	0.5	21.1	0.3	0.3	0.3	21.1
57.5°	0.3	0.3	16.4	0.3	0.3	0.3	16.4	0.3	0.3	0.3	16.4
58°	0.3	0.3	12.2	0.3	0.3	0.3	12.2	0.3	0.3	0.3	12.2
58.5°	0.2	0.2	8.8	0.3	0.3	0.3	8.8	0.2	0.2	0.2	8.8
59°	0.2	0.2	6.7	0.2	0.3	0.2	6.7	0.2	0.2	0.2	6.7
59.5°	0.2	0.2	4.9	0.2	0.3	0.2	4.9	0.2	0.2	0.2	4.9
60°	0.2	0.2	3.2	0.2	0.3	0.2	3.2	0.2	0.2	0.2	3.2
60.5°	0.2	0.2	1.9	0.2	0.2	0.2	1.9	0.2	0.2	0.2	1.9
61°	0.2	0.2	1.2	0.2	0.2	0.2	1.2	0.2	0.2	0.2	1.2
61.5°	0.2	0.2	0.7	0.2	0.2	0.2	0.7	0.2	0.2	0.2	0.7
62°	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	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	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
65.5°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
66°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
77°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
77.5°	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0
78°	0.0	0.0	0.0	0.0	0.1	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: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

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: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	472.3	472.3	472.3	472.3	472.3	472.3
0.5°	472.4	472.4	472.4	472.3	472.2	472.1
1°	472.3	472.3	472.3	472.2	472.1	472.0
1.5°	472.2	472.2	472.2	472.1	472.0	471.9
2°	472.1	472.0	472.1	472.0	471.8	471.8
2.5°	471.9	471.9	471.9	471.8	471.7	471.6
3°	471.7	471.6	471.7	471.6	471.4	471.4
3.5°	471.4	471.4	471.4	471.3	471.2	471.1
4°	471.1	471.0	471.1	471.0	470.9	470.8
4.5°	470.7	470.7	470.7	470.6	470.5	470.4
5°	470.3	470.3	470.3	470.3	470.1	470.0
5.5°	469.9	469.8	469.9	469.8	469.7	469.6
6°	469.4	469.4	469.4	469.3	469.2	469.1
6.5°	468.9	468.8	468.9	468.8	468.7	468.6
7°	468.3	468.3	468.3	468.3	468.1	468.0
7.5°	467.7	467.6	467.7	467.6	467.5	467.4
8°	467.0	467.0	467.0	467.0	466.8	466.7
8.5°	466.3	466.2	466.3	466.3	466.1	466.0
9°	465.6	465.5	465.6	465.5	465.3	465.2
9.5°	464.8	464.6	464.8	464.7	464.5	464.4
10°	463.9	463.8	463.9	463.9	463.7	463.5
10.5°	463.0	462.9	463.0	463.0	462.8	462.6
11°	462.0	461.9	462.0	462.1	461.8	461.6
11.5°	461.0	460.9	461.0	461.1	460.8	460.6
12°	460.0	459.8	460.0	460.0	459.7	459.5
12.5°	458.9	458.7	458.9	458.9	458.6	458.4
13°	457.8	457.6	457.8	457.8	457.5	457.2
13.5°	456.6	456.4	456.6	456.6	456.3	456.0
14°	455.3	455.1	455.3	455.3	455.0	454.7
14.5°	454.0	453.8	454.0	454.0	453.7	453.4
15°	452.6	452.4	452.6	452.7	452.3	452.0
15.5°	451.2	451.0	451.2	451.3	450.9	450.6
16°	449.8	449.5	449.8	449.8	449.4	449.1
16.5°	448.3	448.0	448.3	448.3	447.9	447.6
17°	446.7	446.4	446.7	446.8	446.3	445.9
17.5°	445.1	444.8	445.1	445.1	444.7	444.3
18°	443.4	443.0	443.4	443.5	443.0	442.6
18.5°	441.6	441.2	441.6	441.7	441.3	440.8
19°	439.8	439.4	439.8	439.9	439.5	439.0
19.5°	438.0	437.6	438.0	438.1	437.6	437.1
20°	436.1	435.6	436.1	436.2	435.7	435.2
20.5°	434.1	433.6	434.1	434.3	433.7	433.1
21°	432.1	431.5	432.1	432.3	431.7	431.0



TEST NUMBER: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	425.6	424.9	425.6	425.9	425.2	424.4
23°	423.3	422.5	423.3	423.7	422.9	422.0
23.5°	420.9	420.1	420.9	421.4	420.6	419.6
24°	418.5	417.6	418.5	419.0	418.1	417.2
24.5°	416.0	415.1	416.0	416.6	415.6	414.6
25°	413.4	412.4	413.4	414.1	413.1	411.9
25.5°	410.8	409.7	410.8	411.6	410.5	409.1
26°	408.1	407.0	408.1	409.0	407.8	406.4
26.5°	405.3	404.1	405.3	406.3	405.0	403.4
27°	402.4	401.1	402.4	403.6	402.1	400.5
27.5°	399.5	398.1	399.5	400.8	399.2	397.5
28°	396.5	395.0	396.5	397.9	396.2	394.3
28.5°	393.5	391.8	393.5	395.0	393.1	391.1
29°	390.3	388.6	390.3	392.0	389.9	387.8
29.5°	387.1	385.2	387.1	388.9	386.7	384.5
30°	383.9	381.8	383.9	385.8	383.4	381.0
30.5°	380.5	378.4	380.5	382.6	380.1	377.5
31°	377.1	374.9	377.1	379.3	376.6	374.0
31.5°	373.7	371.2	373.7	376.0	373.2	370.4
32°	370.2	367.6	370.2	372.6	369.7	366.8
32.5°	366.6	363.9	366.6	369.1	366.1	363.1
33°	363.0	360.2	363.0	365.6	362.5	359.3
33.5°	359.4	356.4	359.4	361.9	358.8	355.4
34°	355.7	352.5	355.7	358.2	355.2	351.4
34.5°	351.9	348.5	351.9	354.5	351.4	347.4
35°	348.1	344.4	348.1	350.6	347.6	343.4
35.5°	344.3	340.2	344.3	346.8	343.8	339.2
36°	340.4	333.5	340.4	342.9	339.9	335.0
36.5°	336.4	326.1	336.4	338.9	335.8	330.0
37°	332.4	317.4	332.4	334.9	331.7	323.1
37.5°	328.2	309.0	328.2	330.8	327.6	312.6
38°	323.5	299.3	323.5	326.7	323.5	301.1
38.5°	316.8	288.3	316.8	322.6	319.1	287.6
39°	309.0	276.0	309.0	318.6	313.3	273.9
39.5°	300.8	262.3	300.8	314.4	305.4	260.0
40°	292.0	248.2	292.0	310.2	295.1	246.1
40.5°	282.1	233.8	282.1	306.2	283.2	232.1
41°	271.1	220.0	271.1	302.1	270.3	217.9
41.5°	259.0	206.4	259.0	298.0	257.3	204.2
42°	245.9	193.1	245.9	294.0	244.2	190.3
42.5°	232.6	179.9	232.6	290.0	231.2	176.9
43°	219.1	166.5	219.1	286.0	217.9	163.5
43.5°	206.1	153.2	206.1	281.9	204.6	150.4



TEST NUMBER: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	168.1	115.6	168.1	269.8	165.6	112.7
45.5°	155.4	104.0	155.4	265.7	153.1	100.8
46°	143.1	92.8	143.1	260.4	140.8	89.5
46.5°	131.0	82.0	131.0	254.2	128.6	78.6
47°	119.1	72.5	119.1	245.5	116.6	67.8
47.5°	107.6	64.4	107.6	235.8	104.9	57.5
48°	96.4	56.4	96.4	224.1	93.8	48.5
48.5°	85.8	48.4	85.8	211.3	83.2	40.3
49°	75.7	40.4	75.7	196.8	72.7	34.0
49.5°	66.3	33.3	66.3	182.1	62.5	28.1
50°	58.1	27.4	58.1	166.9	52.9	22.5
50.5°	50.4	21.6	50.4	152.0	44.3	17.9
51°	43.0	16.4	43.0	137.5	37.0	13.4
51.5°	36.1	12.9	36.1	124.0	30.9	9.6
52°	29.8	10.3	29.8	110.8	25.1	5.8
52.5°	24.1	7.7	24.1	98.0	20.2	2.1
53°	19.2	5.2	19.2	85.9	15.7	1.2
53.5°	14.6	3.0	14.6	75.2	11.6	0.9
54°	10.7	0.8	10.7	65.1	8.0	0.6
54.5°	8.0	0.4	8.0	55.7	4.4	0.3
55°	5.4	0.4	5.4	47.2	1.5	0.3
55.5°	3.3	0.4	3.3	39.1	0.9	0.3
56°	2.0	0.3	2.0	32.0	0.7	0.3
56.5°	0.8	0.3	0.8	26.4	0.4	0.3
57°	0.5	0.3	0.5	21.1	0.3	0.3
57.5°	0.3	0.3	0.3	16.4	0.3	0.3
58°	0.3	0.3	0.3	12.2	0.3	0.3
58.5°	0.3	0.3	0.3	8.8	0.2	0.2
59°	0.2	0.3	0.2	6.7	0.2	0.2
59.5°	0.2	0.3	0.2	4.9	0.2	0.2
60°	0.2	0.3	0.2	3.2	0.2	0.2
60.5°	0.2	0.2	0.2	1.9	0.2	0.2
61°	0.2	0.2	0.2	1.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.7	0.2	0.2
62°	0.2	0.2	0.2	0.3	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.2	0.2	0.2	0.2	0.2	0.2
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
64°	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
65°	0.2	0.2	0.2	0.1	0.2	0.2
65.5°	0.1	0.2	0.1	0.1	0.1	0.1
66°	0.1	0.2	0.1	0.1	0.1	0.1



TEST NUMBER: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

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	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.1	0.1	0.1	0.0	0.1	0.1
77°	0.1	0.1	0.1	0.0	0.1	0.1
77.5°	0.1	0.1	0.1	0.0	0.1	0.0
78°	0.0	0.1	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: P775905

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQMB-1000lm-2700K

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°	428.9	429.6	430.2	430.0	429.4	430.0	430.2	429.6	428.9	429.6	430.2
22°	426.7	427.4	428.1	427.8	427.2	427.8	428.1	427.4	426.7	427.4	428.1



44°	137.4	191.5	277.9	193.3	140.3	193.3	277.9	191.5	137.4	191.5	277.9
44.5°	124.9	178.5	273.9	180.6	127.8	180.6	273.9	178.5	124.9	178.5	273.9



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



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°	430.0	429.4	430.0	430.2	429.6	428.9
22°	427.8	427.2	427.8	428.1	427.4	426.7



44°	193.3	140.3	193.3	277.9	191.5	137.4
44.5°	180.6	127.8	180.6	273.9	178.5	124.9

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