

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: P775895

Luminaire Tested: HCDJBL5510CSD-HCD8TSQH-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775895
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-2700K
Description: 8 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

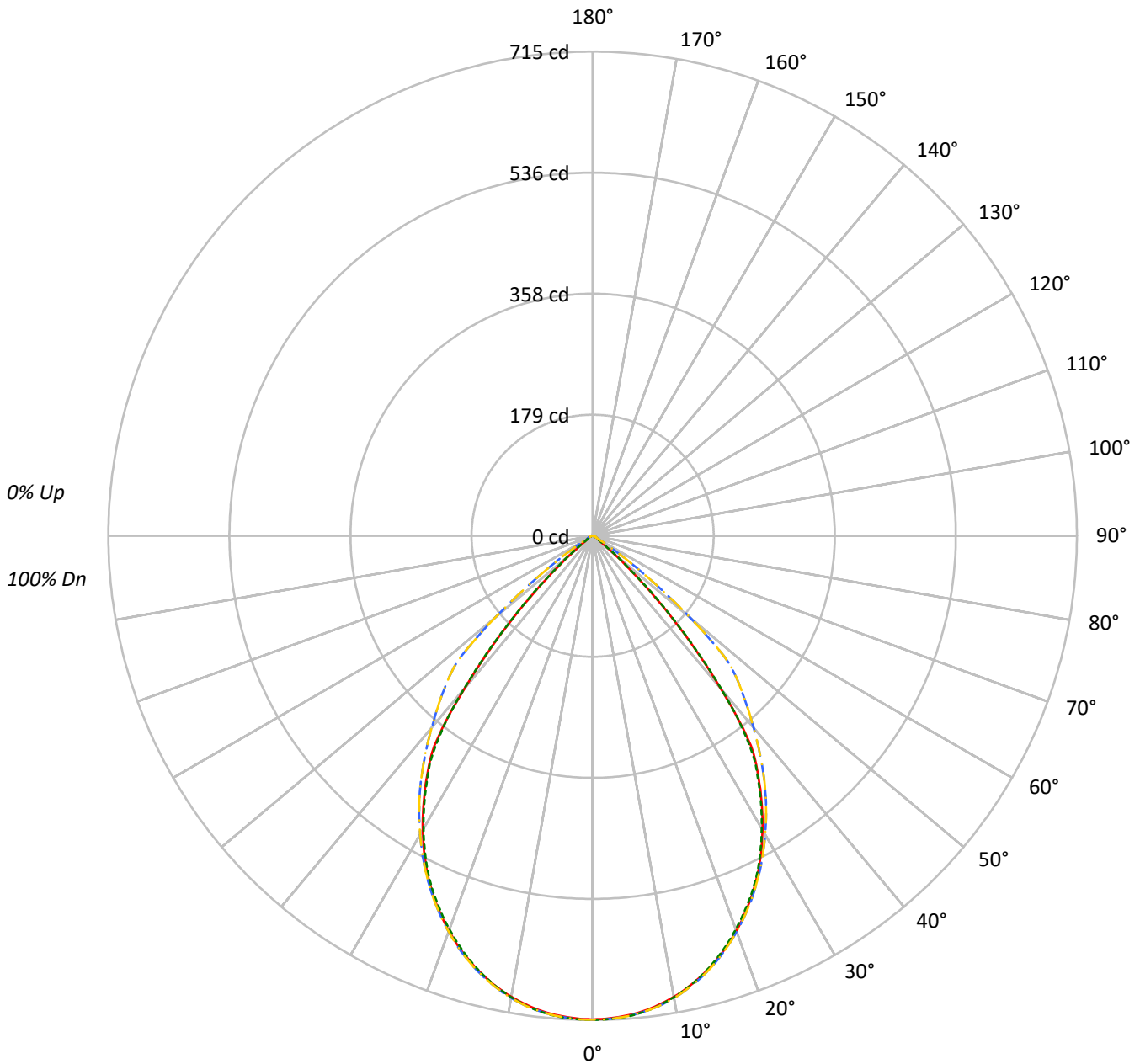
Lumens per Lamp: N/A
Luminaire Lumens: 984.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17135	17135	17135	17135
5°	17054	17090	17054	17090
10°	16832	16847	16832	16847
15°	16431	16411	16431	16411
20°	15839	15780	15839	15780
25°	15022	14972	15022	14972
30°	13891	13827	13891	13827
35°	12414	12350	12414	12350
40°	9218	9268	9218	9268
45°	4832	4954	4832	4954
50°	1567	1694	1567	1694
55°	518	477	518	477
60°	393	369	393	369
65°	301	289	301	289
70°	238	231	238	231
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: 10268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	6.8
10°-20°	186.2	18.9
20°-30°	260.8	26.5
30°-40°	267.9	27.2
40°-50°	162.3	16.5
50°-60°	30.5	3.1
60°-70°	5.9	0.6
70°-80°	2.6	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°	514.2	52.3
0°-40°	782.1	79.5
0°-60°	974.9	99.1
0°-90°	984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	715	715	715	715	715	
5°	708	710	708	710	708	67
15°	662	661	662	661	662	186
25°	568	566	568	566	568	260
35°	424	422	424	422	424	259
45°	142	146	142	146	142	114
55°	12	11	12	11	12	14
65°	5	5	5	5	5	5
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°	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6
0.5°	713.9	714.2	714.7	715.0	714.8	715.0	714.7	714.2	713.9	714.2	714.7
1°	713.8	714.1	714.5	714.8	714.7	714.8	714.5	714.1	713.8	714.1	714.5
1.5°	713.5	713.8	714.3	714.6	714.5	714.6	714.3	713.8	713.5	713.8	714.3
2°	713.1	713.4	713.9	714.3	714.1	714.3	713.9	713.4	713.1	713.4	713.9
2.5°	712.6	712.9	713.5	713.8	713.7	713.8	713.5	712.9	712.6	712.9	713.5
3°	712.0	712.4	712.9	713.3	713.2	713.3	712.9	712.4	712.0	712.4	712.9
3.5°	711.3	711.7	712.3	712.7	712.6	712.7	712.3	711.7	711.3	711.7	712.3
4°	710.5	710.9	711.5	712.0	711.9	712.0	711.5	710.9	710.5	710.9	711.5
4.5°	709.6	709.9	710.6	711.1	711.0	711.1	710.6	709.9	709.6	709.9	710.6
5°	708.5	708.9	709.7	710.2	710.0	710.2	709.7	708.9	708.5	708.9	709.7
5.5°	707.4	707.8	708.6	709.1	708.8	709.1	708.6	707.8	707.4	707.8	708.6
6°	706.0	706.5	707.4	707.9	707.6	707.9	707.4	706.5	706.0	706.5	707.4
6.5°	704.6	705.2	706.1	706.5	706.1	706.5	706.1	705.2	704.6	705.2	706.1
7°	703.1	703.7	704.6	704.9	704.5	704.9	704.6	703.7	703.1	703.7	704.6
7.5°	701.4	702.1	703.0	703.2	702.7	703.2	703.0	702.1	701.4	702.1	703.0
8°	699.6	700.4	701.3	701.4	700.9	701.4	701.3	700.4	699.6	700.4	701.3
8.5°	697.7	698.5	699.4	699.3	698.8	699.3	699.4	698.5	697.7	698.5	699.4
9°	695.7	696.5	697.4	697.2	696.6	697.2	697.4	696.5	695.7	696.5	697.4
9.5°	693.6	694.4	695.3	694.9	694.3	694.9	695.3	694.4	693.6	694.4	695.3
10°	691.3	692.3	693.0	692.6	691.9	692.6	693.0	692.3	691.3	692.3	693.0
10.5°	688.9	689.9	690.6	690.1	689.4	690.1	690.6	689.9	688.9	689.9	690.6
11°	686.4	687.5	688.1	687.5	686.7	687.5	688.1	687.5	686.4	687.5	688.1
11.5°	683.8	684.9	685.4	684.7	683.9	684.7	685.4	684.9	683.8	684.9	685.4
12°	681.0	682.2	682.6	681.9	681.1	681.9	682.6	682.2	681.0	682.2	682.6
12.5°	678.1	679.4	679.7	678.9	678.0	678.9	679.7	679.4	678.1	679.4	679.7
13°	675.1	676.4	676.7	675.8	674.9	675.8	676.7	676.4	675.1	676.4	676.7
13.5°	672.0	673.3	673.5	672.6	671.6	672.6	673.5	673.3	672.0	673.3	673.5
14°	668.7	670.2	670.3	669.3	668.2	669.3	670.3	670.2	668.7	670.2	670.3
14.5°	665.4	666.8	666.9	665.8	664.7	665.8	666.9	666.8	665.4	666.8	666.9
15°	661.9	663.4	663.5	662.2	661.1	662.2	663.5	663.4	661.9	663.4	663.5
15.5°	658.3	659.9	659.8	658.5	657.3	658.5	659.8	659.9	658.3	659.9	659.8
16°	654.6	656.2	656.1	654.7	653.5	654.7	656.1	656.2	654.6	656.2	656.1
16.5°	650.8	652.4	652.2	650.8	649.5	650.8	652.2	652.4	650.8	652.4	652.2
17°	646.9	648.5	648.3	646.7	645.4	646.7	648.3	648.5	646.9	648.5	648.3
17.5°	642.8	644.5	644.2	642.6	641.2	642.6	644.2	644.5	642.8	644.5	644.2
18°	638.6	640.3	639.9	638.3	636.8	638.3	639.9	640.3	638.6	640.3	639.9
18.5°	634.3	636.0	635.7	634.0	632.3	634.0	635.7	636.0	634.3	636.0	635.7
19°	629.9	631.7	631.3	629.5	627.8	629.5	631.3	631.7	629.9	631.7	631.3
19.5°	625.3	627.2	626.7	624.9	623.1	624.9	626.7	627.2	625.3	627.2	626.7
20°	620.7	622.6	622.1	620.3	618.4	620.3	622.1	622.6	620.7	622.6	622.1
20.5°	616.0	617.9	617.4	615.4	613.5	615.4	617.4	617.9	616.0	617.9	617.4
21°	611.1	613.0	612.6	610.5	608.5	610.5	612.6	613.0	611.1	613.0	612.6



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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°	595.8	597.9	597.4	595.2	593.3	595.2	597.4	597.9	595.8	597.9	597.4
23°	590.5	592.6	592.2	589.9	588.0	589.9	592.2	592.6	590.5	592.6	592.2
23.5°	585.0	587.3	586.9	584.6	582.8	584.6	586.9	587.3	585.0	587.3	586.9
24°	579.5	581.7	581.5	579.2	577.4	579.2	581.5	581.7	579.5	581.7	581.5
24.5°	573.7	576.1	576.0	573.8	571.7	573.8	576.0	576.1	573.7	576.1	576.0
25°	567.8	570.4	570.3	568.3	565.9	568.3	570.3	570.4	567.8	570.4	570.3
25.5°	561.9	564.6	564.6	562.5	560.1	562.5	564.6	564.6	561.9	564.6	564.6
26°	555.7	558.6	558.8	556.9	554.1	556.9	558.8	558.6	555.7	558.6	558.8
26.5°	549.5	552.5	552.9	551.0	547.8	551.0	552.9	552.5	549.5	552.5	552.9
27°	543.0	546.3	546.9	545.0	541.3	545.0	546.9	546.3	543.0	546.3	546.9
27.5°	536.6	540.0	540.9	538.8	534.8	538.8	540.9	540.0	536.6	540.0	540.9
28°	529.8	533.5	534.8	532.3	527.8	532.3	534.8	533.5	529.8	533.5	534.8
28.5°	523.0	526.8	528.4	525.8	520.8	525.8	528.4	526.8	523.0	526.8	528.4
29°	515.9	520.3	522.2	519.2	513.8	519.2	522.2	520.3	515.9	520.3	522.2
29.5°	508.8	513.6	516.0	512.3	506.6	512.3	516.0	513.6	508.8	513.6	516.0
30°	501.7	506.7	509.5	505.4	499.4	505.4	509.5	506.7	501.7	506.7	509.5
30.5°	494.4	499.7	503.1	498.3	492.0	498.3	503.1	499.7	494.4	499.7	503.1
31°	486.8	492.6	496.5	491.3	484.6	491.3	496.5	492.6	486.8	492.6	496.5
31.5°	479.4	485.5	490.0	484.1	477.0	484.1	490.0	485.5	479.4	485.5	490.0
32°	471.8	478.2	483.4	476.9	469.3	476.9	483.4	478.2	471.8	478.2	483.4
32.5°	464.1	470.8	476.7	469.4	461.6	469.4	476.7	470.8	464.1	470.8	476.7
33°	456.3	463.4	469.9	462.2	453.9	462.2	469.9	463.4	456.3	463.4	469.9
33.5°	448.5	456.1	463.0	454.8	446.0	454.8	463.0	456.1	448.5	456.1	463.0
34°	440.4	448.6	456.0	447.4	438.0	447.4	456.0	448.6	440.4	448.6	456.0
34.5°	432.4	441.0	449.0	440.0	429.9	440.0	449.0	441.0	432.4	441.0	449.0
35°	424.1	433.4	442.0	432.4	421.9	432.4	442.0	433.4	424.1	433.4	442.0
35.5°	416.1	425.9	434.7	424.9	413.9	424.9	434.7	425.9	416.1	425.9	434.7
36°	407.8	418.2	427.4	417.3	404.4	417.3	427.4	418.2	407.8	418.2	427.4
36.5°	398.9	410.3	420.3	409.6	393.7	409.6	420.3	410.3	398.9	410.3	420.3
37°	388.2	402.6	413.0	401.9	381.9	401.9	413.0	402.6	388.2	402.6	413.0
37.5°	374.2	394.7	405.8	394.1	369.7	394.1	405.8	394.7	374.2	394.7	405.8
38°	360.1	386.9	398.3	386.4	356.7	386.4	398.3	386.9	360.1	386.9	398.3
38.5°	344.5	379.0	391.1	377.9	343.4	377.9	391.1	379.0	344.5	379.0	391.1
39°	328.3	370.8	383.9	368.0	328.5	368.0	383.9	370.8	328.3	370.8	383.9
39.5°	311.3	358.9	376.8	356.9	312.7	356.9	376.8	358.9	311.3	358.9	376.8
40°	294.5	346.1	369.6	344.8	296.1	344.8	369.6	346.1	294.5	346.1	369.6
40.5°	277.7	331.6	362.5	331.9	279.7	331.9	362.5	331.6	277.7	331.6	362.5
41°	261.8	316.5	355.6	318.0	263.9	318.0	355.6	316.5	261.8	316.5	355.6
41.5°	246.0	301.1	348.9	303.5	248.2	303.5	348.9	301.1	246.0	301.1	348.9
42°	230.6	285.7	342.2	288.3	233.0	288.3	342.2	285.7	230.6	285.7	342.2
42.5°	215.2	270.5	335.6	273.1	217.6	273.1	335.6	270.5	215.2	270.5	335.6
43°	200.0	255.1	329.0	257.8	202.7	257.8	329.0	255.1	200.0	255.1	329.0
43.5°	184.7	240.1	322.5	242.8	187.7	242.8	322.5	240.1	184.7	240.1	322.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	142.5	196.5	302.8	199.9	146.1	199.9	302.8	196.5	142.5	196.5	302.8
45.5°	129.3	182.2	296.3	185.7	133.4	185.7	296.3	182.2	129.3	182.2	296.3
46°	117.0	168.4	289.7	171.7	121.2	171.7	289.7	168.4	117.0	168.4	289.7
46.5°	104.8	155.0	282.9	158.1	108.8	158.1	282.9	155.0	104.8	155.0	282.9
47°	92.9	141.8	273.4	144.8	96.7	144.8	273.4	141.8	92.9	141.8	273.4
47.5°	81.5	129.1	261.8	132.4	86.0	132.4	261.8	129.1	81.5	129.1	261.8
48°	71.8	116.8	248.0	120.2	76.6	120.2	248.0	116.8	71.8	116.8	248.0
48.5°	62.9	105.0	233.4	108.4	67.8	108.4	233.4	105.0	62.9	105.0	233.4
49°	55.0	93.6	218.1	96.7	59.8	96.7	218.1	93.6	55.0	93.6	218.1
49.5°	48.1	82.6	202.4	86.3	52.3	86.3	202.4	82.6	48.1	82.6	202.4
50°	42.0	72.3	186.5	76.3	45.4	76.3	186.5	72.3	42.0	72.3	186.5
50.5°	36.3	63.0	170.8	67.1	38.9	67.1	170.8	63.0	36.3	63.0	170.8
51°	31.1	54.7	155.3	58.5	32.7	58.5	155.3	54.7	31.1	54.7	155.3
51.5°	26.9	47.4	140.8	50.7	27.5	50.7	140.8	47.4	26.9	47.4	140.8
52°	22.7	41.0	127.5	43.9	23.4	43.9	127.5	41.0	22.7	41.0	127.5
52.5°	19.1	35.3	114.5	37.6	20.6	37.6	114.5	35.3	19.1	35.3	114.5
53°	16.5	30.1	102.3	31.8	17.9	31.8	102.3	30.1	16.5	30.1	102.3
53.5°	14.1	25.7	90.4	26.4	15.1	26.4	90.4	25.7	14.1	25.7	90.4
54°	13.5	21.5	79.5	21.6	12.4	21.6	79.5	21.5	13.5	21.5	79.5
54.5°	12.9	18.0	69.1	17.9	11.8	17.9	69.1	18.0	12.9	18.0	69.1
55°	12.4	14.9	59.9	15.0	11.4	15.0	59.9	14.9	12.4	14.9	59.9
55.5°	11.9	12.7	51.6	12.9	10.9	12.9	51.6	12.7	11.9	12.7	51.6
56°	11.4	11.7	44.1	11.3	10.5	11.3	44.1	11.7	11.4	11.7	44.1
56.5°	10.9	11.2	37.4	10.5	10.1	10.5	37.4	11.2	10.9	11.2	37.4
57°	10.5	10.8	31.8	10.1	9.7	10.1	31.8	10.8	10.5	10.8	31.8
57.5°	10.0	10.4	26.9	9.7	9.3	9.7	26.9	10.4	10.0	10.4	26.9
58°	9.6	10.0	22.9	9.4	9.0	9.4	22.9	10.0	9.6	10.0	22.9
58.5°	9.2	9.6	19.3	9.0	8.6	9.0	19.3	9.6	9.2	9.6	19.3
59°	8.9	9.3	16.4	8.7	8.3	8.7	16.4	9.3	8.9	9.3	16.4
59.5°	8.5	9.0	13.9	8.4	8.0	8.4	13.9	9.0	8.5	9.0	13.9
60°	8.2	8.6	11.7	8.1	7.7	8.1	11.7	8.6	8.2	8.6	11.7
60.5°	7.8	8.3	10.4	7.8	7.3	7.8	10.4	8.3	7.8	8.3	10.4
61°	7.5	8.0	9.4	7.6	7.1	7.6	9.4	8.0	7.5	8.0	9.4
61.5°	7.2	7.7	8.6	7.3	6.8	7.3	8.6	7.7	7.2	7.7	8.6
62°	6.9	7.5	8.1	7.0	6.5	7.0	8.1	7.5	6.9	7.5	8.1
62.5°	6.6	7.2	7.7	6.8	6.3	6.8	7.7	7.2	6.6	7.2	7.7
63°	6.3	6.9	7.4	6.6	6.0	6.6	7.4	6.9	6.3	6.9	7.4
63.5°	6.1	6.7	7.1	6.3	5.8	6.3	7.1	6.7	6.1	6.7	7.1
64°	5.8	6.4	6.9	6.1	5.5	6.1	6.9	6.4	5.8	6.4	6.9
64.5°	5.6	6.2	6.6	5.9	5.3	5.9	6.6	6.2	5.6	6.2	6.6
65°	5.3	6.0	6.4	5.7	5.1	5.7	6.4	6.0	5.3	6.0	6.4
65.5°	5.1	5.7	6.1	5.5	4.9	5.5	6.1	5.7	5.1	5.7	6.1
66°	4.9	5.5	5.9	5.3	4.7	5.3	5.9	5.5	4.9	5.5	5.9



TEST NUMBER: P775895

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4.3	4.9	5.3	4.7	4.1	4.7	5.3	4.9	4.3	4.9	5.3
68°	4.1	4.7	5.1	4.5	4.0	4.5	5.1	4.7	4.1	4.7	5.1
68.5°	3.9	4.5	4.9	4.4	3.8	4.4	4.9	4.5	3.9	4.5	4.9
69°	3.8	4.3	4.7	4.2	3.6	4.2	4.7	4.3	3.8	4.3	4.7
69.5°	3.6	4.2	4.5	4.0	3.5	4.0	4.5	4.2	3.6	4.2	4.5
70°	3.4	4.0	4.3	3.9	3.3	3.9	4.3	4.0	3.4	4.0	4.3
70.5°	3.3	3.8	4.2	3.7	3.2	3.7	4.2	3.8	3.3	3.8	4.2
71°	3.1	3.7	4.0	3.6	3.1	3.6	4.0	3.7	3.1	3.7	4.0
71.5°	3.0	3.5	3.8	3.4	2.9	3.4	3.8	3.5	3.0	3.5	3.8
72°	2.8	3.4	3.7	3.3	2.8	3.3	3.7	3.4	2.8	3.4	3.7
72.5°	2.7	3.2	3.5	3.1	2.7	3.1	3.5	3.2	2.7	3.2	3.5
73°	2.6	3.1	3.3	3.0	2.5	3.0	3.3	3.1	2.6	3.1	3.3
73.5°	2.4	2.9	3.2	2.9	2.4	2.9	3.2	2.9	2.4	2.9	3.2
74°	2.3	2.8	3.0	2.7	2.3	2.7	3.0	2.8	2.3	2.8	3.0
74.5°	2.2	2.7	2.9	2.6	2.2	2.6	2.9	2.7	2.2	2.7	2.9
75°	2.1	2.5	2.7	2.5	2.1	2.5	2.7	2.5	2.1	2.5	2.7
75.5°	2.0	2.4	2.6	2.4	2.0	2.4	2.6	2.4	2.0	2.4	2.6
76°	1.9	2.3	2.5	2.2	1.9	2.2	2.5	2.3	1.9	2.3	2.5
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: P775895
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-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: P775895

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	714.6	714.6	714.6	714.6	714.6	714.6
0.5°	715.0	714.8	715.0	714.7	714.2	713.9
1°	714.8	714.7	714.8	714.5	714.1	713.8
1.5°	714.6	714.5	714.6	714.3	713.8	713.5
2°	714.3	714.1	714.3	713.9	713.4	713.1
2.5°	713.8	713.7	713.8	713.5	712.9	712.6
3°	713.3	713.2	713.3	712.9	712.4	712.0
3.5°	712.7	712.6	712.7	712.3	711.7	711.3
4°	712.0	711.9	712.0	711.5	710.9	710.5
4.5°	711.1	711.0	711.1	710.6	709.9	709.6
5°	710.2	710.0	710.2	709.7	708.9	708.5
5.5°	709.1	708.8	709.1	708.6	707.8	707.4
6°	707.9	707.6	707.9	707.4	706.5	706.0
6.5°	706.5	706.1	706.5	706.1	705.2	704.6
7°	704.9	704.5	704.9	704.6	703.7	703.1
7.5°	703.2	702.7	703.2	703.0	702.1	701.4
8°	701.4	700.9	701.4	701.3	700.4	699.6
8.5°	699.3	698.8	699.3	699.4	698.5	697.7
9°	697.2	696.6	697.2	697.4	696.5	695.7
9.5°	694.9	694.3	694.9	695.3	694.4	693.6
10°	692.6	691.9	692.6	693.0	692.3	691.3
10.5°	690.1	689.4	690.1	690.6	689.9	688.9
11°	687.5	686.7	687.5	688.1	687.5	686.4
11.5°	684.7	683.9	684.7	685.4	684.9	683.8
12°	681.9	681.1	681.9	682.6	682.2	681.0
12.5°	678.9	678.0	678.9	679.7	679.4	678.1
13°	675.8	674.9	675.8	676.7	676.4	675.1
13.5°	672.6	671.6	672.6	673.5	673.3	672.0
14°	669.3	668.2	669.3	670.3	670.2	668.7
14.5°	665.8	664.7	665.8	666.9	666.8	665.4
15°	662.2	661.1	662.2	663.5	663.4	661.9
15.5°	658.5	657.3	658.5	659.8	659.9	658.3
16°	654.7	653.5	654.7	656.1	656.2	654.6
16.5°	650.8	649.5	650.8	652.2	652.4	650.8
17°	646.7	645.4	646.7	648.3	648.5	646.9
17.5°	642.6	641.2	642.6	644.2	644.5	642.8
18°	638.3	636.8	638.3	639.9	640.3	638.6
18.5°	634.0	632.3	634.0	635.7	636.0	634.3
19°	629.5	627.8	629.5	631.3	631.7	629.9
19.5°	624.9	623.1	624.9	626.7	627.2	625.3
20°	620.3	618.4	620.3	622.1	622.6	620.7
20.5°	615.4	613.5	615.4	617.4	617.9	616.0
21°	610.5	608.5	610.5	612.6	613.0	611.1

TEST NUMBER: P775895

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	595.2	593.3	595.2	597.4	597.9	595.8
23°	589.9	588.0	589.9	592.2	592.6	590.5
23.5°	584.6	582.8	584.6	586.9	587.3	585.0
24°	579.2	577.4	579.2	581.5	581.7	579.5
24.5°	573.8	571.7	573.8	576.0	576.1	573.7
25°	568.3	565.9	568.3	570.3	570.4	567.8
25.5°	562.5	560.1	562.5	564.6	564.6	561.9
26°	556.9	554.1	556.9	558.8	558.6	555.7
26.5°	551.0	547.8	551.0	552.9	552.5	549.5
27°	545.0	541.3	545.0	546.9	546.3	543.0
27.5°	538.8	534.8	538.8	540.9	540.0	536.6
28°	532.3	527.8	532.3	534.8	533.5	529.8
28.5°	525.8	520.8	525.8	528.4	526.8	523.0
29°	519.2	513.8	519.2	522.2	520.3	515.9
29.5°	512.3	506.6	512.3	516.0	513.6	508.8
30°	505.4	499.4	505.4	509.5	506.7	501.7
30.5°	498.3	492.0	498.3	503.1	499.7	494.4
31°	491.3	484.6	491.3	496.5	492.6	486.8
31.5°	484.1	477.0	484.1	490.0	485.5	479.4
32°	476.9	469.3	476.9	483.4	478.2	471.8
32.5°	469.4	461.6	469.4	476.7	470.8	464.1
33°	462.2	453.9	462.2	469.9	463.4	456.3
33.5°	454.8	446.0	454.8	463.0	456.1	448.5
34°	447.4	438.0	447.4	456.0	448.6	440.4
34.5°	440.0	429.9	440.0	449.0	441.0	432.4
35°	432.4	421.9	432.4	442.0	433.4	424.1
35.5°	424.9	413.9	424.9	434.7	425.9	416.1
36°	417.3	404.4	417.3	427.4	418.2	407.8
36.5°	409.6	393.7	409.6	420.3	410.3	398.9
37°	401.9	381.9	401.9	413.0	402.6	388.2
37.5°	394.1	369.7	394.1	405.8	394.7	374.2
38°	386.4	356.7	386.4	398.3	386.9	360.1
38.5°	377.9	343.4	377.9	391.1	379.0	344.5
39°	368.0	328.5	368.0	383.9	370.8	328.3
39.5°	356.9	312.7	356.9	376.8	358.9	311.3
40°	344.8	296.1	344.8	369.6	346.1	294.5
40.5°	331.9	279.7	331.9	362.5	331.6	277.7
41°	318.0	263.9	318.0	355.6	316.5	261.8
41.5°	303.5	248.2	303.5	348.9	301.1	246.0
42°	288.3	233.0	288.3	342.2	285.7	230.6
42.5°	273.1	217.6	273.1	335.6	270.5	215.2
43°	257.8	202.7	257.8	329.0	255.1	200.0
43.5°	242.8	187.7	242.8	322.5	240.1	184.7



TEST NUMBER: P775895

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	199.9	146.1	199.9	302.8	196.5	142.5
45.5°	185.7	133.4	185.7	296.3	182.2	129.3
46°	171.7	121.2	171.7	289.7	168.4	117.0
46.5°	158.1	108.8	158.1	282.9	155.0	104.8
47°	144.8	96.7	144.8	273.4	141.8	92.9
47.5°	132.4	86.0	132.4	261.8	129.1	81.5
48°	120.2	76.6	120.2	248.0	116.8	71.8
48.5°	108.4	67.8	108.4	233.4	105.0	62.9
49°	96.7	59.8	96.7	218.1	93.6	55.0
49.5°	86.3	52.3	86.3	202.4	82.6	48.1
50°	76.3	45.4	76.3	186.5	72.3	42.0
50.5°	67.1	38.9	67.1	170.8	63.0	36.3
51°	58.5	32.7	58.5	155.3	54.7	31.1
51.5°	50.7	27.5	50.7	140.8	47.4	26.9
52°	43.9	23.4	43.9	127.5	41.0	22.7
52.5°	37.6	20.6	37.6	114.5	35.3	19.1
53°	31.8	17.9	31.8	102.3	30.1	16.5
53.5°	26.4	15.1	26.4	90.4	25.7	14.1
54°	21.6	12.4	21.6	79.5	21.5	13.5
54.5°	17.9	11.8	17.9	69.1	18.0	12.9
55°	15.0	11.4	15.0	59.9	14.9	12.4
55.5°	12.9	10.9	12.9	51.6	12.7	11.9
56°	11.3	10.5	11.3	44.1	11.7	11.4
56.5°	10.5	10.1	10.5	37.4	11.2	10.9
57°	10.1	9.7	10.1	31.8	10.8	10.5
57.5°	9.7	9.3	9.7	26.9	10.4	10.0
58°	9.4	9.0	9.4	22.9	10.0	9.6
58.5°	9.0	8.6	9.0	19.3	9.6	9.2
59°	8.7	8.3	8.7	16.4	9.3	8.9
59.5°	8.4	8.0	8.4	13.9	9.0	8.5
60°	8.1	7.7	8.1	11.7	8.6	8.2
60.5°	7.8	7.3	7.8	10.4	8.3	7.8
61°	7.6	7.1	7.6	9.4	8.0	7.5
61.5°	7.3	6.8	7.3	8.6	7.7	7.2
62°	7.0	6.5	7.0	8.1	7.5	6.9
62.5°	6.8	6.3	6.8	7.7	7.2	6.6
63°	6.6	6.0	6.6	7.4	6.9	6.3
63.5°	6.3	5.8	6.3	7.1	6.7	6.1
64°	6.1	5.5	6.1	6.9	6.4	5.8
64.5°	5.9	5.3	5.9	6.6	6.2	5.6
65°	5.7	5.1	5.7	6.4	6.0	5.3
65.5°	5.5	4.9	5.5	6.1	5.7	5.1
66°	5.3	4.7	5.3	5.9	5.5	4.9



TEST NUMBER: P775895

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	4.7	4.1	4.7	5.3	4.9	4.3
68°	4.5	4.0	4.5	5.1	4.7	4.1
68.5°	4.4	3.8	4.4	4.9	4.5	3.9
69°	4.2	3.6	4.2	4.7	4.3	3.8
69.5°	4.0	3.5	4.0	4.5	4.2	3.6
70°	3.9	3.3	3.9	4.3	4.0	3.4
70.5°	3.7	3.2	3.7	4.2	3.8	3.3
71°	3.6	3.1	3.6	4.0	3.7	3.1
71.5°	3.4	2.9	3.4	3.8	3.5	3.0
72°	3.3	2.8	3.3	3.7	3.4	2.8
72.5°	3.1	2.7	3.1	3.5	3.2	2.7
73°	3.0	2.5	3.0	3.3	3.1	2.6
73.5°	2.9	2.4	2.9	3.2	2.9	2.4
74°	2.7	2.3	2.7	3.0	2.8	2.3
74.5°	2.6	2.2	2.6	2.9	2.7	2.2
75°	2.5	2.1	2.5	2.7	2.5	2.1
75.5°	2.4	2.0	2.4	2.6	2.4	2.0
76°	2.2	1.9	2.2	2.5	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: P775895

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQH-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°

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21.5°	606.2	608.1	607.6	605.5	603.6	605.5	607.6	608.1	606.2	608.1	607.6
22°	600.9	603.1	602.5	600.4	598.4	600.4	602.5	603.1	600.9	603.1	602.5



44°	170.0	225.5	315.8	228.4	173.1	228.4	315.8	225.5	170.0	225.5	315.8
44.5°	156.2	211.2	309.4	214.1	158.8	214.1	309.4	211.2	156.2	211.2	309.4



66.5°	4.7	5.3	5.7	5.1	4.5	5.1	5.7	5.3	4.7	5.3	5.7
67°	4.5	5.1	5.5	4.9	4.3	4.9	5.5	5.1	4.5	5.1	5.5



89°	0.0	0.0	0.0	0.0	0.1	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	0.0

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21.5°	605.5	603.6	605.5	607.6	608.1	606.2
22°	600.4	598.4	600.4	602.5	603.1	600.9



44°	228.4	173.1	228.4	315.8	225.5	170.0
44.5°	214.1	158.8	214.1	309.4	211.2	156.2



66.5°	5.1	4.5	5.1	5.7	5.3	4.7
67°	4.9	4.3	4.9	5.5	5.1	4.5

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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)