

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: P775771

Luminaire Tested: HCDJBL510CSD-HCD6TRH-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TRH-1000lm-3000K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

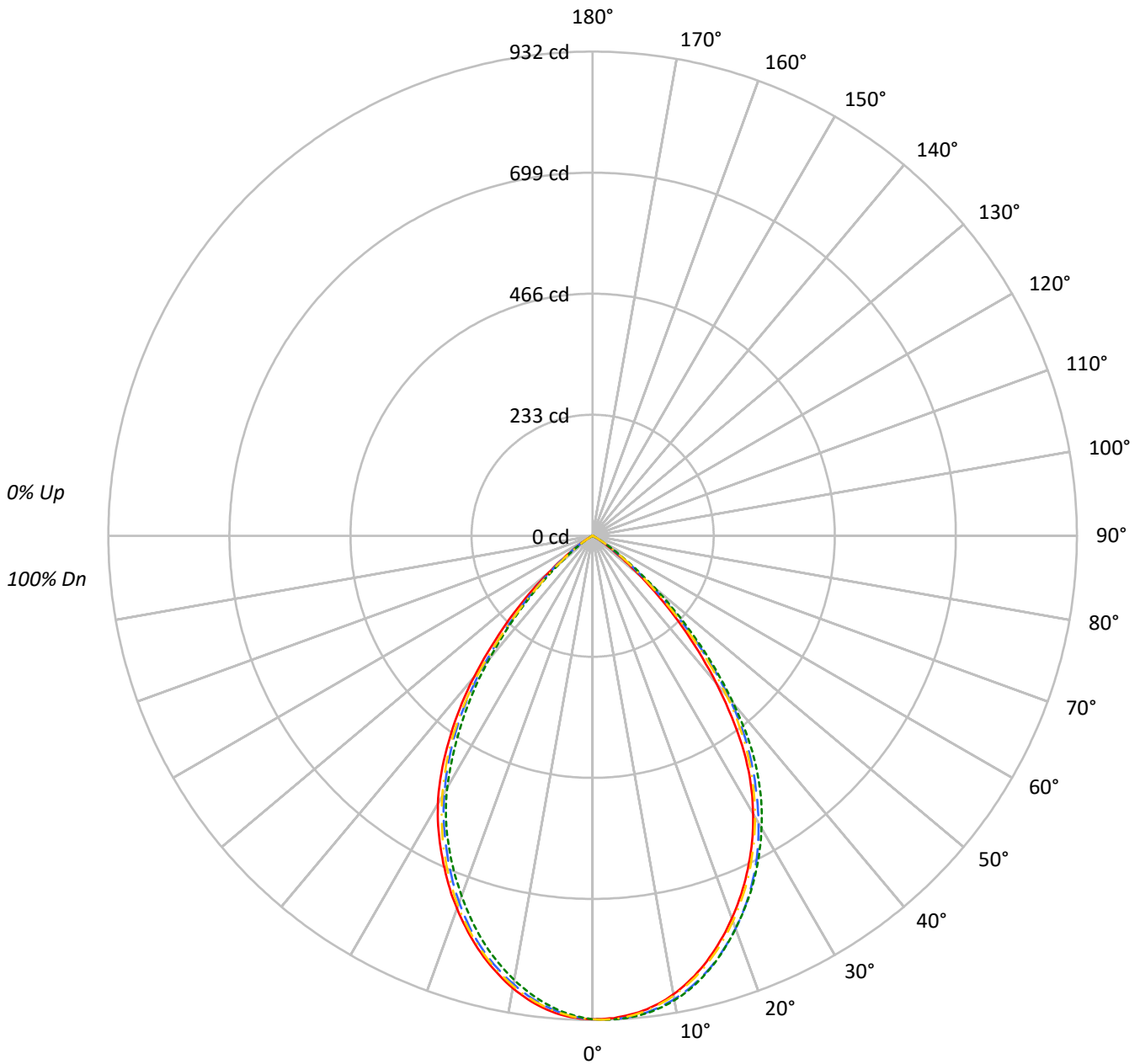
Lumens per Lamp: N/A
Luminaire Lumens: 1170.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	69	65	61	68	64	60	59	59	59	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	51027	51027	51027	51027
5°	50803	51111	50572	50060
10°	49882	50545	49220	48340
15°	48133	49109	47163	45982
20°	45720	46945	44536	43019
25°	42765	44367	41392	39686
30°	39107	41146	37677	35436
35°	33957	36895	32270	29352
40°	26471	30157	25441	22048
45°	18149	21894	17459	14172
50°	9995	13236	9560	6959
55°	3823	5811	4138	2963
60°	504	1491	998	395
65°	65	117	91	65
70°	16	32	32	32
75°	21	21	21	21
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 21894 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	7.4
10°-20°	235.6	20.1
20°-30°	318.7	27.2
30°-40°	305.9	26.1
40°-50°	178.2	15.2
50°-60°	43.9	3.7
60°-70°	1.4	0.1
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°	641.1	54.8
0°-40°	947.1	80.9
0°-60°	1169.1	99.9
0°-90°	1170.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	931	931	931	931	931	
5°	923	929	919	910	923	87
15°	848	865	831	810	848	238
25°	707	734	684	656	707	324
35°	507	551	482	439	507	312
45°	234	282	225	183	234	181
55°	40	61	43	31	40	41
65°	0	1	1	0	0	1
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°	930.8	930.8	930.8	930.8	930.8	930.8	930.8	930.8	930.8	930.8	930.8
0.5°	930.6	930.7	931.4	932.0	931.1	931.5	931.7	931.3	930.4	930.0	930.1
1°	930.4	930.8	931.8	932.6	931.7	931.9	931.9	931.2	930.0	929.2	929.3
1.5°	930.1	930.8	931.9	932.9	932.0	932.2	931.8	930.9	929.6	928.4	928.2
2°	929.6	930.7	931.9	932.9	932.2	932.2	931.7	930.4	928.6	927.3	926.8
2.5°	929.6	930.3	931.6	932.7	932.0	931.9	931.2	929.7	927.8	926.0	925.2
3°	928.1	929.7	931.3	932.3	931.8	931.6	930.5	928.6	926.3	924.5	923.4
3.5°	927.1	929.0	930.7	931.8	931.3	930.8	929.6	927.5	924.9	922.8	921.6
4°	926.0	928.2	929.9	931.1	930.6	930.1	928.6	925.9	923.3	920.9	919.2
4.5°	924.6	927.1	928.9	930.2	929.8	929.1	927.1	924.3	921.4	918.6	916.8
5°	923.2	925.8	927.8	929.2	928.8	927.9	925.6	922.5	919.0	916.1	914.2
5.5°	921.8	924.3	926.5	927.9	927.7	926.5	923.8	920.3	916.4	913.5	911.2
6°	919.5	922.6	925.0	926.4	926.3	924.9	921.7	917.8	913.8	910.6	908.2
6.5°	917.5	920.8	923.3	924.9	924.7	923.1	919.8	915.0	910.8	907.6	904.7
7°	915.1	918.7	921.2	923.2	923.0	921.2	917.2	912.2	907.8	904.2	901.4
7.5°	912.5	916.3	919.1	921.0	920.9	919.1	914.7	909.0	904.2	900.5	897.6
8°	909.6	913.8	916.8	918.7	918.8	916.8	911.9	905.7	900.6	896.7	893.8
8.5°	906.6	911.0	914.3	916.2	916.4	914.2	908.9	902.3	896.8	892.9	889.6
9°	903.4	908.0	911.6	913.6	913.8	911.4	905.8	898.6	892.8	888.8	885.6
9.5°	899.8	904.9	908.6	910.7	911.0	908.6	902.3	894.6	888.8	884.4	881.1
10°	896.1	901.5	905.6	907.7	908.0	905.3	898.7	890.6	884.2	880.0	876.5
10.5°	892.2	897.9	902.3	904.4	904.6	901.9	894.9	886.2	879.7	875.4	871.8
11°	888.1	894.2	899.0	900.9	901.1	898.2	890.9	881.8	874.9	870.6	867.1
11.5°	883.8	890.2	895.1	897.2	897.4	894.4	886.8	877.3	869.8	865.7	862.1
12°	879.0	886.0	891.4	893.2	893.4	890.2	882.4	872.5	864.8	860.6	856.9
12.5°	874.3	881.6	887.2	889.2	889.2	885.9	877.8	867.6	859.6	855.3	851.7
13°	869.5	877.3	883.1	885.1	885.1	881.5	873.3	862.6	854.3	849.9	846.2
13.5°	864.3	872.4	878.6	880.4	880.2	876.6	868.2	857.3	848.6	844.4	840.6
14°	859.2	867.6	873.9	875.8	875.4	871.8	863.2	851.9	843.0	838.6	834.8
14.5°	853.7	862.4	869.0	871.0	870.2	866.5	858.0	846.1	837.2	832.5	828.9
15°	848.1	857.3	863.9	866.0	865.3	861.3	852.4	840.4	831.0	826.2	822.8
15.5°	842.3	851.8	858.7	861.0	859.8	855.9	846.7	834.5	824.8	820.2	816.5
16°	836.3	846.0	853.3	855.4	854.4	850.3	841.0	828.5	818.6	813.8	809.8
16.5°	830.2	840.3	847.6	849.9	848.7	844.4	835.0	822.3	812.2	807.1	803.1
17°	824.0	834.4	842.0	844.3	842.7	838.5	829.0	815.9	805.4	800.1	796.3
17.5°	817.5	828.4	836.0	838.6	836.8	832.4	822.7	809.2	798.8	793.2	789.0
18°	811.0	822.1	830.0	832.5	830.4	826.1	816.5	802.7	791.7	786.1	781.7
18.5°	804.4	815.6	823.7	826.3	824.1	819.8	809.8	795.7	784.7	778.7	774.4
19°	797.6	809.1	817.6	820.1	817.8	813.4	803.1	788.8	777.7	771.6	766.6
19.5°	790.6	802.4	810.9	813.7	811.4	806.7	796.3	781.7	770.7	763.8	758.7
20°	783.7	795.6	804.5	807.2	804.7	799.7	789.5	774.7	763.4	756.2	750.9
20.5°	776.5	788.5	797.8	800.1	797.7	793.0	782.4	767.4	756.0	748.4	743.0
21°	769.2	781.4	790.9	793.4	790.8	786.0	775.0	760.1	748.6	740.8	735.1



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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°	746.9	759.1	769.4	771.8	770.4	764.0	752.8	738.3	725.4	716.7	709.5
23°	739.2	751.4	761.9	764.3	763.2	756.3	745.4	730.5	717.1	708.3	701.0
23.5°	731.5	743.4	754.2	756.7	756.0	748.5	738.0	722.6	709.0	699.7	692.1
24°	723.4	735.6	746.2	748.8	748.7	740.8	730.0	714.6	700.8	691.3	683.3
24.5°	715.3	727.5	738.2	741.0	741.5	734.2	721.8	706.6	692.8	682.7	674.3
25°	707.0	719.3	730.0	732.9	733.5	726.2	713.4	698.5	684.3	674.1	665.7
25.5°	698.7	710.7	721.8	724.5	725.6	717.9	705.0	690.2	676.0	665.4	656.7
26°	690.5	702.4	713.2	716.4	717.7	709.8	696.6	682.0	667.6	656.7	647.8
26.5°	681.7	693.9	704.4	707.9	709.7	701.3	687.8	673.5	659.1	647.9	638.7
27°	673.1	685.0	695.8	699.3	701.7	693.0	679.2	665.2	650.3	639.1	629.8
27.5°	664.1	675.9	686.7	690.7	693.2	684.3	670.6	656.6	641.8	630.2	620.5
28°	655.3	666.8	677.3	681.7	684.7	675.8	661.8	647.8	632.9	620.7	610.9
28.5°	646.2	657.6	667.9	672.7	676.4	667.0	652.9	639.1	624.0	611.1	601.0
29°	636.9	648.2	658.3	663.5	667.8	658.2	643.7	630.1	614.8	601.6	591.1
29.5°	627.4	638.4	648.4	654.2	658.8	649.4	634.6	620.6	605.1	591.7	580.6
30°	617.8	628.5	638.5	644.8	650.0	640.5	625.2	611.1	595.2	581.7	570.2
30.5°	608.0	618.5	628.5	634.8	640.9	631.2	615.7	601.2	585.4	571.2	559.6
31°	598.0	608.3	617.9	625.2	632.0	621.9	605.9	591.3	574.9	560.7	548.8
31.5°	587.7	597.9	607.8	615.1	622.4	612.5	596.0	581.1	564.2	550.1	537.8
32°	577.0	587.1	597.1	604.8	612.9	602.9	586.1	570.7	553.1	539.2	526.6
32.5°	566.5	576.8	586.5	594.3	603.3	593.0	575.9	560.1	542.0	528.0	515.6
33°	555.5	565.9	576.0	584.0	593.5	583.0	565.6	549.0	530.6	516.5	504.6
33.5°	544.2	555.0	565.7	573.4	583.2	572.9	555.2	537.7	518.9	505.0	493.5
34°	532.2	543.8	554.8	562.8	573.1	562.5	544.6	526.4	507.0	493.6	482.1
34.5°	520.1	532.7	543.9	552.1	562.1	551.6	534.1	514.8	494.5	481.3	470.5
35°	507.4	521.2	532.7	540.9	551.3	540.8	523.3	502.8	482.2	469.1	459.0
35.5°	494.8	509.7	522.1	529.8	539.9	529.9	512.4	491.0	470.1	456.9	447.1
36°	481.2	498.1	510.5	518.7	528.5	518.8	501.3	479.1	457.9	444.6	434.9
36.5°	467.7	485.7	499.6	507.5	516.2	507.2	489.8	466.9	445.4	432.0	422.3
37°	453.7	473.2	488.0	495.8	503.8	495.3	478.0	454.9	432.6	419.4	409.0
37.5°	439.8	460.1	476.0	483.8	490.9	483.1	466.0	442.5	420.4	406.5	396.0
38°	425.4	446.7	463.6	470.8	477.7	470.2	453.6	430.1	407.7	393.4	382.4
38.5°	411.7	433.4	451.1	458.7	463.7	457.2	440.9	417.7	395.0	380.1	368.8
39°	397.5	419.5	438.0	445.4	449.9	443.9	427.8	405.1	382.1	366.8	355.2
39.5°	383.7	405.6	424.6	432.2	435.7	430.0	414.4	392.2	369.2	353.3	341.1
40°	369.9	390.9	410.6	418.4	421.4	415.4	400.7	378.9	355.5	339.4	327.1
40.5°	356.2	376.7	397.2	404.3	407.4	400.8	387.1	365.6	342.2	325.7	312.7
41°	342.4	363.2	383.4	389.9	393.3	385.9	372.4	352.3	328.5	312.2	298.4
41.5°	328.7	349.2	369.3	375.6	379.7	371.2	358.0	339.1	314.8	299.2	284.3
42°	314.9	335.1	354.8	367.2	365.8	356.5	343.4	325.1	301.1	285.7	270.5
42.5°	301.2	321.2	340.3	351.7	352.5	341.8	329.0	311.4	288.3	272.5	257.1
43°	287.2	307.1	325.8	335.8	338.9	327.3	314.7	297.3	275.1	259.4	244.2
43.5°	273.5	293.5	311.5	320.1	324.5	313.1	300.4	283.6	262.8	246.6	231.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	234.1	252.8	267.9	276.3	282.4	271.1	258.0	242.7	225.2	209.0	195.8
45.5°	221.7	239.2	253.6	262.7	268.5	257.0	244.1	229.9	212.8	197.1	184.6
46°	208.8	226.1	239.4	249.1	255.1	243.5	230.7	216.8	200.8	185.3	173.6
46.5°	196.2	213.0	225.4	235.7	242.2	230.3	217.1	204.0	188.5	174.3	163.1
47°	183.8	200.1	211.9	222.1	229.2	217.3	204.0	191.1	176.7	163.0	152.8
47.5°	171.8	187.3	198.9	208.9	216.4	204.6	191.3	178.8	165.3	152.6	143.1
48°	160.1	175.0	186.2	196.0	203.7	192.7	178.9	166.5	154.3	142.4	133.8
48.5°	148.8	163.0	173.6	183.4	191.3	181.2	167.1	154.8	143.4	132.9	125.1
49°	137.8	151.3	161.8	171.1	178.9	169.7	155.5	143.2	132.6	123.4	116.6
49.5°	127.2	139.9	150.2	159.1	166.7	158.5	144.8	132.3	122.2	114.5	108.2
50°	117.2	128.5	138.9	147.1	155.2	147.4	134.2	121.9	112.1	106.0	100.6
50.5°	107.3	117.5	127.9	135.7	143.8	136.9	124.2	112.0	102.6	98.5	93.6
51°	98.0	107.3	117.7	124.7	132.8	126.6	114.7	102.7	94.4	91.2	86.5
51.5°	88.9	97.6	107.7	114.3	122.5	116.8	105.6	94.9	86.2	83.8	79.6
52°	80.3	88.6	98.3	104.4	112.5	107.2	98.0	87.0	77.9	76.4	72.5
52.5°	72.1	79.8	89.2	94.7	102.8	99.1	90.4	79.1	69.8	69.1	66.0
53°	64.6	71.8	80.7	85.6	94.2	90.8	82.7	71.2	63.4	62.7	60.2
53.5°	57.4	64.5	72.4	77.1	85.5	82.6	75.1	64.6	57.5	57.0	54.5
54°	51.1	57.6	65.0	69.4	76.7	74.4	67.4	58.6	52.3	51.6	49.3
54.5°	45.3	51.2	57.6	62.0	68.1	66.2	61.2	53.0	47.6	46.4	44.0
55°	40.0	45.5	51.1	55.4	60.8	59.9	55.3	48.2	43.3	41.7	39.2
55.5°	34.9	39.9	44.9	49.2	54.2	53.4	49.7	43.3	39.0	37.0	34.5
56°	30.9	34.8	39.4	43.4	48.1	47.6	44.3	38.9	34.9	32.7	30.2
56.5°	26.8	30.7	34.6	37.8	42.4	42.1	39.2	34.7	31.0	28.7	26.1
57°	22.9	26.7	30.4	33.5	37.2	37.0	34.5	30.6	27.2	24.9	22.4
57.5°	18.9	22.6	26.1	29.2	32.2	32.1	30.0	26.7	23.8	21.4	19.0
58°	15.1	18.6	21.9	24.8	27.7	27.6	25.9	23.2	20.4	17.9	15.2
58.5°	11.4	14.6	17.8	20.5	23.7	23.6	22.1	19.7	16.8	15.2	13.0
59°	8.4	11.0	13.8	16.2	19.7	19.9	18.4	15.9	14.3	12.5	10.6
59.5°	6.1	8.1	10.1	12.1	16.6	17.1	15.5	13.5	11.7	9.8	8.4
60°	4.6	5.8	7.3	8.9	13.6	14.4	12.8	11.0	9.1	7.1	6.1
60.5°	3.4	4.4	5.3	6.3	10.5	11.6	9.9	8.6	6.5	4.5	3.8
61°	2.9	3.8	4.0	4.7	7.4	8.9	7.0	6.1	4.1	3.5	3.0
61.5°	2.3	3.2	3.4	3.5	4.4	6.1	4.3	3.7	3.1	2.8	2.3
62°	1.8	2.6	2.8	3.0	3.3	3.4	3.3	2.8	2.3	2.1	1.9
62.5°	1.3	1.9	2.1	2.4	2.6	2.6	2.4	2.2	1.8	1.7	1.5
63°	1.1	1.4	1.6	1.9	2.0	2.0	1.9	1.7	1.5	1.4	1.3
63.5°	0.9	1.1	1.3	1.4	1.6	1.6	1.5	1.4	1.2	1.2	1.1
64°	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.2	1.0	1.0	0.9
64.5°	0.6	0.8	0.9	1.0	1.1	1.1	1.0	1.0	0.8	0.8	0.8
65°	0.5	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.7	0.7	0.7
65.5°	0.5	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6
66°	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5



TEST NUMBER: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
68°	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
68.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
77°	0.0	0.0	0.0	0.1	0.1	0.1	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: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-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: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	930.8	930.8	930.8	930.8	930.8	930.8
0.5°	930.5	929.4	930.0	930.5	930.8	930.6
1°	929.5	928.2	928.9	929.7	930.2	930.4
1.5°	928.2	926.7	927.7	928.6	929.7	930.1
2°	926.5	925.0	926.0	927.3	928.6	929.6
2.5°	924.8	923.1	924.1	925.9	927.6	929.6
3°	922.8	920.8	922.1	924.1	926.5	928.1
3.5°	920.5	918.4	919.8	922.3	925.1	927.1
4°	918.2	915.8	917.4	920.3	923.7	926.0
4.5°	915.5	912.9	914.7	918.1	921.8	924.6
5°	912.6	909.7	911.7	915.5	919.9	923.2
5.5°	909.4	906.5	908.6	912.9	917.7	921.8
6°	906.0	903.1	905.4	910.1	915.4	919.5
6.5°	902.5	899.2	901.8	906.9	912.9	917.5
7°	898.8	895.5	898.2	903.7	910.2	915.1
7.5°	894.8	891.3	894.3	900.4	907.3	912.5
8°	890.8	886.9	890.3	896.7	904.1	909.6
8.5°	886.5	882.5	886.0	892.9	900.5	906.6
9°	882.3	878.0	881.5	888.9	896.9	903.4
9.5°	877.5	873.2	877.1	884.6	893.1	899.8
10°	872.8	868.4	872.3	880.3	889.1	896.1
10.5°	867.8	863.1	867.5	875.7	884.9	892.2
11°	862.7	857.8	862.4	870.8	880.5	888.1
11.5°	857.5	852.5	857.1	865.8	875.9	883.8
12°	852.0	846.8	851.7	860.7	871.0	879.0
12.5°	846.4	841.1	846.1	855.3	866.0	874.3
13°	840.6	835.2	840.3	849.9	861.0	869.5
13.5°	834.7	829.2	834.3	844.2	855.6	864.3
14°	828.5	823.1	828.2	838.6	850.2	859.2
14.5°	822.2	816.8	822.0	832.7	844.5	853.7
15°	815.6	810.2	815.5	826.6	839.0	848.1
15.5°	809.3	803.4	808.9	820.2	832.8	842.3
16°	802.5	796.8	802.3	814.0	826.8	836.3
16.5°	795.6	789.6	795.3	807.7	820.6	830.2
17°	788.5	782.7	788.4	801.0	814.3	824.0
17.5°	781.6	775.3	781.3	794.0	807.5	817.5
18°	774.4	767.9	774.1	787.1	800.7	811.0
18.5°	767.0	760.3	766.9	779.9	793.9	804.4
19°	759.6	753.0	759.2	772.6	786.8	797.6
19.5°	752.2	745.3	751.9	765.3	779.6	790.6
20°	744.7	737.4	744.4	757.7	772.3	783.7
20.5°	737.4	729.6	736.8	749.9	764.6	776.5
21°	729.4	721.8	729.0	742.2	757.0	769.2



TEST NUMBER: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	705.0	697.9	705.0	717.6	733.0	746.9
23°	696.7	689.6	696.7	709.2	724.7	739.2
23.5°	688.4	681.5	688.7	700.9	716.4	731.5
24°	679.9	673.1	680.2	692.3	707.8	723.4
24.5°	671.3	664.8	671.9	683.5	699.4	715.3
25°	662.7	656.1	663.2	674.8	690.9	707.0
25.5°	653.9	647.5	654.7	666.0	682.1	698.7
26°	645.4	638.8	645.6	656.7	673.4	690.5
26.5°	636.4	629.9	636.4	647.8	664.5	681.7
27°	627.2	620.7	627.1	638.1	655.6	673.1
27.5°	617.8	611.5	617.5	628.6	646.4	664.1
28°	608.2	601.4	607.4	618.9	637.0	655.3
28.5°	598.2	591.4	597.8	609.2	627.5	646.2
29°	588.2	581.1	587.5	599.3	617.9	636.9
29.5°	578.0	570.7	577.0	589.0	608.1	627.4
30°	567.4	559.8	566.3	578.8	598.3	617.8
30.5°	556.6	548.1	555.5	568.2	588.0	608.0
31°	545.6	536.5	544.1	557.7	577.7	598.0
31.5°	534.4	524.7	532.6	547.3	567.3	587.7
32°	523.0	512.5	520.7	536.1	556.8	577.0
32.5°	511.2	500.5	508.9	525.4	546.1	566.5
33°	499.2	488.0	496.7	514.4	534.9	555.5
33.5°	486.9	475.6	484.6	503.3	523.8	544.2
34°	474.6	463.3	472.5	491.7	512.2	532.2
34.5°	461.9	450.8	460.2	479.6	500.7	520.1
35°	449.5	438.6	447.7	467.4	488.5	507.4
35.5°	436.9	426.2	435.6	455.0	476.3	494.8
36°	424.1	414.1	423.4	442.4	463.2	481.2
36.5°	411.3	401.7	411.0	429.4	449.8	467.7
37°	398.4	389.2	398.5	415.1	436.0	453.7
37.5°	385.3	376.3	385.7	401.7	422.6	439.8
38°	372.2	363.7	372.6	387.6	407.9	425.4
38.5°	358.6	349.8	358.9	373.9	393.4	411.7
39°	345.4	335.9	345.2	366.0	378.4	397.5
39.5°	332.0	322.0	331.6	350.1	361.5	383.7
40°	318.4	308.1	317.8	334.1	347.4	369.9
40.5°	304.9	294.7	304.1	318.2	333.3	356.2
41°	291.6	281.9	289.8	302.3	319.3	342.4
41.5°	278.8	269.1	276.1	288.2	305.2	328.7
42°	265.4	256.8	262.6	274.0	291.1	314.9
42.5°	252.4	244.2	249.6	260.0	277.2	301.2
43°	239.6	231.9	236.8	246.2	263.0	287.2
43.5°	226.7	219.4	223.6	232.6	249.3	273.5



TEST NUMBER: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	190.7	182.8	185.8	193.3	210.7	234.1
45.5°	179.1	171.4	173.3	181.1	198.7	221.7
46°	167.9	160.2	161.5	169.4	186.9	208.8
46.5°	157.5	148.8	149.9	158.0	175.7	196.2
47°	146.7	138.1	138.8	147.0	164.2	183.8
47.5°	136.8	127.6	128.3	136.6	153.6	171.8
48°	127.3	117.5	118.1	126.6	142.8	160.1
48.5°	118.1	107.6	108.6	117.1	132.5	148.8
49°	109.5	98.5	99.6	108.1	122.3	137.8
49.5°	101.2	89.8	91.0	99.5	112.8	127.2
50°	93.9	81.6	83.2	91.4	103.3	117.2
50.5°	86.6	74.3	75.8	83.7	94.6	107.3
51°	79.3	67.6	69.2	76.5	86.3	98.0
51.5°	72.0	61.6	62.9	69.6	78.5	88.9
52°	65.8	56.2	57.3	63.4	71.1	80.3
52.5°	59.8	51.3	52.0	57.4	64.2	72.1
53°	54.1	46.6	47.3	51.7	57.5	64.6
53.5°	49.0	42.3	42.7	46.3	51.4	57.4
54°	44.1	38.3	38.5	41.4	45.8	51.1
54.5°	39.4	34.6	34.8	36.7	40.6	45.3
55°	35.1	31.0	31.1	32.8	35.4	40.0
55.5°	30.8	27.4	27.5	29.0	31.4	34.9
56°	26.9	23.9	23.9	25.1	27.4	30.9
56.5°	23.4	20.3	20.2	21.3	23.5	26.8
57°	20.0	16.6	16.5	17.4	19.5	22.9
57.5°	16.3	13.0	13.0	13.7	15.7	18.9
58°	13.9	9.9	9.8	10.4	12.0	15.1
58.5°	11.4	7.4	7.2	7.7	9.0	11.4
59°	9.0	5.5	5.4	5.7	6.6	8.4
59.5°	6.5	4.2	4.1	4.3	4.9	6.1
60°	4.1	3.6	3.5	3.7	3.7	4.6
60.5°	3.2	2.9	2.9	3.1	3.2	3.4
61°	2.6	2.2	2.1	2.6	2.6	2.9
61.5°	2.0	1.6	1.5	1.9	2.0	2.3
62°	1.6	1.3	1.3	1.3	1.5	1.8
62.5°	1.3	1.1	1.0	1.1	1.2	1.3
63°	1.1	0.9	0.9	0.9	1.0	1.1
63.5°	0.9	0.8	0.7	0.7	0.8	0.9
64°	0.8	0.7	0.6	0.6	0.7	0.7
64.5°	0.7	0.6	0.5	0.5	0.6	0.6
65°	0.6	0.5	0.4	0.5	0.5	0.5
65.5°	0.5	0.4	0.4	0.4	0.4	0.5
66°	0.4	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.2	0.2	0.3	0.3
68°	0.3	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.1	0.1	0.1	0.1
70.5°	0.2	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	0.0	0.0	0.1
75.5°	0.1	0.0	0.0	0.0	0.0	0.0
76°	0.1	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: P775771

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-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°	761.8	774.0	784.0	786.4	784.1	778.8	767.7	752.9	741.3	733.1	726.7
22°	754.4	766.7	776.7	779.1	777.2	771.8	760.2	745.6	733.2	724.9	718.3



44°	259.9	279.8	297.0	304.2	310.3	299.1	286.0	269.5	249.7	233.6	219.3
44.5°	246.9	266.4	282.4	290.2	296.3	285.1	272.2	256.1	237.8	221.5	207.7



66.5°	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
67°	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4



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°	721.3	713.9	721.1	734.0	749.0	761.8
22°	713.2	705.9	713.1	726.0	741.1	754.4



44°	214.4	206.9	210.8	219.2	236.3	259.9
44.5°	202.6	194.7	198.3	206.2	223.4	246.9

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66.5°	0.4	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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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)