

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: P775798

Luminaire Tested: HCDJBL5510CSD-HCD6TSQH-1000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775798
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-HCD6TSQH-1000lm-4000K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

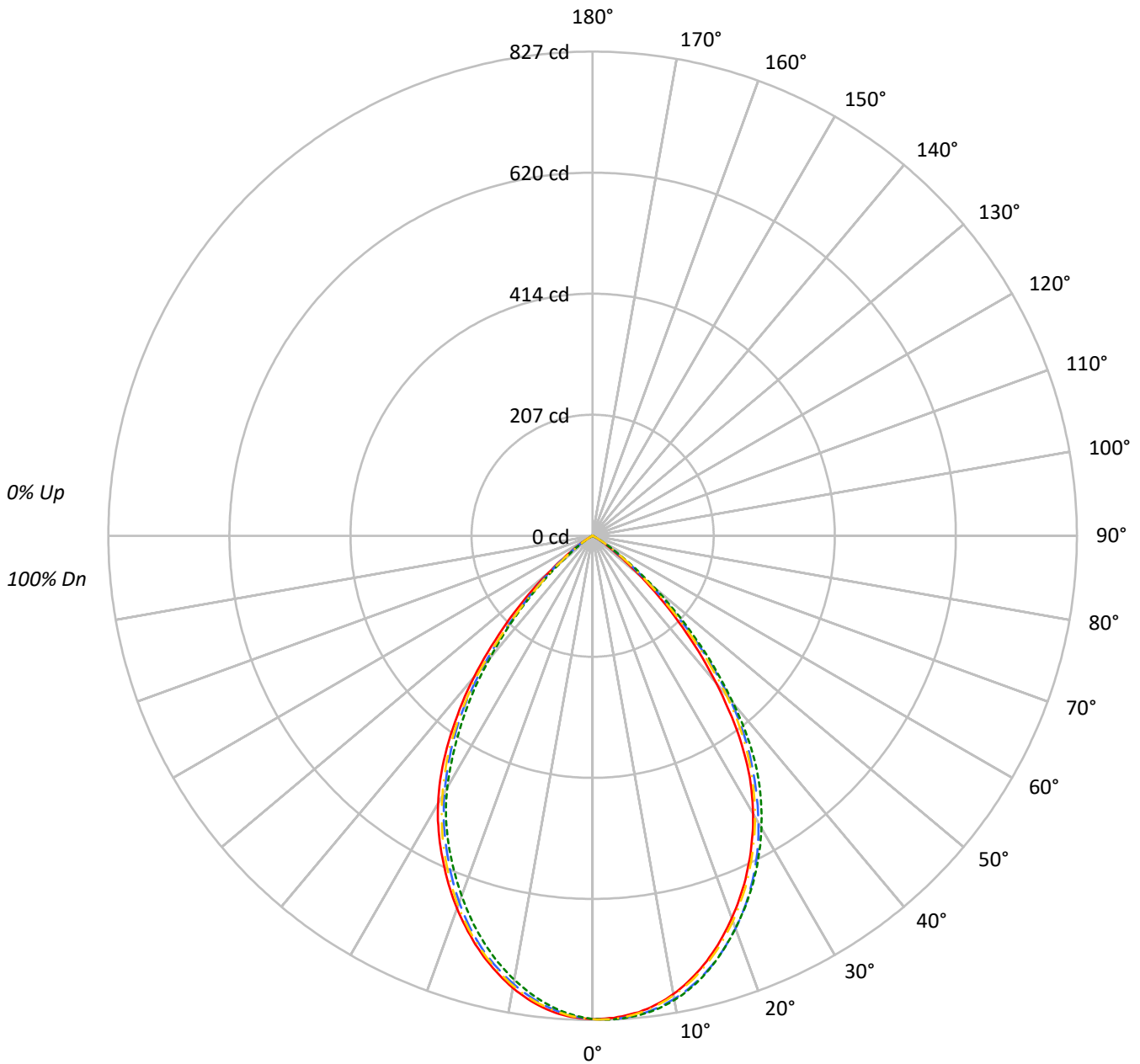
Lumens per Lamp: N/A
Luminaire Lumens: 1038.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P775798
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92								
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84								
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77								
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70								
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64								
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59								
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54								
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50								
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46								
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	45254	45254	45254	45254
5°	45053	45328	44849	44398
10°	44243	44828	43653	42874
15°	42690	43553	41828	40783
20°	40551	41636	39501	38153
25°	37926	39347	36710	35198
30°	34683	36487	33417	31429
35°	30115	32719	28623	26033
40°	23480	26750	22564	19551
45°	16095	19413	15482	12567
50°	8870	11735	8477	6175
55°	3393	5152	3670	2628
60°	450	1316	888	351
65°	65	104	78	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: 19413 cd/sqm



TEST NUMBER: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	7.4
10°-20°	208.9	20.1
20°-30°	282.6	27.2
30°-40°	271.3	26.1
40°-50°	158.0	15.2
50°-60°	38.9	3.7
60°-70°	1.3	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°	568.6	54.8
0°-40°	840.0	80.9
0°-60°	1036.9	99.9
0°-90°	1038.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	826	826	826	826	826	
5°	819	824	815	807	819	77
15°	752	767	737	719	752	211
25°	627	650	607	582	627	287
35°	450	489	428	389	450	277
45°	208	250	200	162	208	160
55°	36	54	38	28	36	37
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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CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5
0.5°	825.3	825.4	826.1	826.6	825.8	826.2	826.3	826.0	825.2	824.8	824.9
1°	825.2	825.5	826.4	827.1	826.3	826.5	826.5	825.9	824.8	824.1	824.2
1.5°	824.9	825.5	826.5	827.3	826.6	826.8	826.4	825.6	824.4	823.4	823.2
2°	824.4	825.4	826.5	827.3	826.8	826.8	826.3	825.2	823.5	822.5	822.0
2.5°	824.4	825.1	826.3	827.2	826.6	826.5	825.9	824.5	822.8	821.3	820.6
3°	823.1	824.5	826.0	826.9	826.4	826.3	825.3	823.5	821.5	819.9	818.9
3.5°	822.3	823.9	825.4	826.4	826.0	825.5	824.4	822.5	820.3	818.4	817.4
4°	821.3	823.2	824.7	825.8	825.3	824.9	823.5	821.2	818.8	816.8	815.2
4.5°	820.0	822.3	823.8	825.0	824.6	824.0	822.3	819.7	817.2	814.7	813.1
5°	818.7	821.1	822.8	824.1	823.7	822.9	820.9	818.1	815.0	812.5	810.8
5.5°	817.6	819.7	821.7	822.9	822.7	821.7	819.3	816.2	812.8	810.1	808.2
6°	815.5	818.2	820.4	821.6	821.5	820.3	817.5	813.9	810.4	807.6	805.4
6.5°	813.7	816.7	818.8	820.3	820.1	818.7	815.8	811.5	807.8	804.9	802.4
7°	811.6	814.8	817.0	818.7	818.6	817.0	813.5	809.1	805.1	801.9	799.5
7.5°	809.2	812.7	815.1	816.8	816.8	815.1	811.2	806.2	801.9	798.7	796.0
8°	806.7	810.4	813.1	814.8	814.9	813.1	808.8	803.3	798.7	795.3	792.7
8.5°	804.1	808.0	810.9	812.6	812.8	810.8	806.1	800.2	795.4	791.9	789.0
9°	801.2	805.3	808.5	810.2	810.4	808.3	803.4	796.9	791.8	788.3	785.4
9.5°	798.0	802.5	805.8	807.7	808.0	805.8	800.2	793.4	788.3	784.4	781.5
10°	794.8	799.6	803.2	805.0	805.3	802.9	797.0	789.9	784.2	780.5	777.4
10.5°	791.2	796.3	800.2	802.1	802.3	799.9	793.7	786.0	780.2	776.4	773.2
11°	787.6	793.0	797.3	799.0	799.2	796.6	790.2	782.1	775.9	772.1	769.0
11.5°	783.8	789.5	793.9	795.7	795.9	793.2	786.5	778.0	771.4	767.8	764.5
12°	779.6	785.8	790.6	792.1	792.3	789.5	782.6	773.8	767.0	763.3	759.9
12.5°	775.4	781.9	786.8	788.6	788.6	785.7	778.5	769.4	762.4	758.6	755.3
13°	771.2	778.0	783.2	785.0	785.0	781.8	774.5	765.0	757.7	753.8	750.5
13.5°	766.5	773.7	779.2	780.8	780.7	777.5	770.0	760.3	752.6	748.9	745.5
14°	762.0	769.4	775.0	776.8	776.4	773.2	765.5	755.5	747.6	743.7	740.4
14.5°	757.1	764.8	770.7	772.5	771.8	768.5	760.9	750.4	742.5	738.3	735.1
15°	752.2	760.3	766.2	768.1	767.4	763.9	756.0	745.4	737.0	732.8	729.7
15.5°	747.0	755.4	761.6	763.6	762.6	759.1	750.9	740.1	731.5	727.5	724.1
16°	741.7	750.3	756.8	758.7	757.8	754.1	745.9	734.8	726.0	721.8	718.2
16.5°	736.3	745.3	751.7	753.8	752.7	748.9	740.6	729.3	720.3	715.8	712.3
17°	730.8	740.0	746.7	748.8	747.4	743.6	735.2	723.7	714.3	709.6	706.2
17.5°	725.0	734.7	741.5	743.7	742.1	738.2	729.6	717.7	708.5	703.5	699.8
18°	719.3	729.1	736.1	738.3	736.5	732.7	724.1	711.9	702.1	697.1	693.2
18.5°	713.4	723.4	730.5	732.9	730.9	727.1	718.2	705.7	696.0	690.6	686.8
19°	707.4	717.6	725.1	727.4	725.3	721.4	712.3	699.6	689.7	684.3	679.9
19.5°	701.2	711.6	719.2	721.7	719.6	715.4	706.2	693.2	683.6	677.4	672.9
20°	695.1	705.6	713.5	715.9	713.7	709.3	700.2	687.1	677.1	670.6	665.9
20.5°	688.6	699.3	707.5	709.6	707.5	703.3	693.9	680.6	670.4	663.8	659.0
21°	682.2	693.0	701.5	703.7	701.4	697.0	687.4	674.2	663.9	657.0	652.0



TEST NUMBER: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	662.4	673.3	682.4	684.5	683.3	677.6	667.6	654.8	643.3	635.6	629.3
23°	655.6	666.4	675.7	677.9	676.9	670.7	661.1	647.8	636.0	628.2	621.7
23.5°	648.7	659.3	668.9	671.1	670.4	663.8	654.5	640.9	628.8	620.6	613.8
24°	641.6	652.4	661.8	664.1	664.0	657.0	647.5	633.8	621.5	613.1	606.0
24.5°	634.3	645.2	654.7	657.1	657.6	651.2	640.1	626.7	614.4	605.5	598.1
25°	627.0	638.0	647.5	650.0	650.5	644.0	632.7	619.5	606.9	597.9	590.4
25.5°	619.7	630.3	640.1	642.6	643.5	636.7	625.3	612.1	599.5	590.1	582.4
26°	612.4	622.9	632.5	635.3	636.5	629.6	617.8	604.9	592.1	582.4	574.5
26.5°	604.6	615.4	624.8	627.8	629.5	622.0	610.0	597.3	584.6	574.6	566.5
27°	597.0	607.5	617.1	620.2	622.3	614.6	602.4	589.9	576.7	566.9	558.5
27.5°	589.0	599.4	609.0	612.5	614.8	606.9	594.7	582.3	569.2	558.9	550.3
28°	581.1	591.4	600.7	604.6	607.3	599.3	586.9	574.5	561.3	550.5	541.8
28.5°	573.1	583.2	592.4	596.6	599.9	591.6	579.1	566.9	553.5	542.0	533.0
29°	564.9	574.9	583.9	588.5	592.3	583.8	570.9	558.8	545.2	533.6	524.2
29.5°	556.4	566.2	575.1	580.2	584.3	576.0	562.8	550.4	536.6	524.8	514.9
30°	547.9	557.4	566.3	571.8	576.4	568.0	554.5	542.0	527.9	515.9	505.7
30.5°	539.3	548.6	557.4	563.0	568.4	559.8	546.0	533.2	519.2	506.6	496.3
31°	530.4	539.5	548.0	554.5	560.5	551.6	537.4	524.4	509.8	497.3	486.7
31.5°	521.2	530.3	539.1	545.5	552.0	543.2	528.6	515.4	500.3	487.9	477.0
32°	511.7	520.7	529.6	536.4	543.6	534.7	519.8	506.1	490.6	478.2	467.1
32.5°	502.4	511.6	520.2	527.0	535.1	526.0	510.8	496.7	480.7	468.3	457.3
33°	492.7	501.9	510.8	517.9	526.4	517.1	501.6	486.9	470.6	458.1	447.5
33.5°	482.6	492.2	501.7	508.6	517.3	508.1	492.4	476.9	460.2	447.9	437.6
34°	472.0	482.3	492.0	499.2	508.3	498.9	483.0	466.9	449.7	437.7	427.6
34.5°	461.3	472.5	482.3	489.7	498.5	489.2	473.7	456.6	438.6	426.9	417.3
35°	450.0	462.3	472.5	479.7	488.9	479.6	464.1	446.0	427.7	416.0	407.1
35.5°	438.8	452.0	463.1	469.9	478.8	469.9	454.5	435.5	416.9	405.3	396.6
36°	426.8	441.7	452.8	460.0	468.7	460.1	444.6	424.9	406.1	394.3	385.7
36.5°	414.8	430.8	443.1	450.1	457.8	449.9	434.4	414.1	395.0	383.2	374.5
37°	402.4	419.6	432.8	439.7	446.8	439.3	423.9	403.4	383.6	372.0	362.7
37.5°	390.1	408.1	422.2	429.1	435.4	428.4	413.3	392.4	372.9	360.6	351.2
38°	377.3	396.2	411.1	417.6	423.6	417.0	402.3	381.5	361.6	348.9	339.1
38.5°	365.2	384.4	400.1	406.8	411.2	405.5	391.1	370.4	350.3	337.1	327.1
39°	352.5	372.0	388.4	395.0	399.0	393.7	379.4	359.3	338.8	325.3	315.0
39.5°	340.3	359.7	376.6	383.3	386.4	381.4	367.5	347.8	327.4	313.3	302.6
40°	328.1	346.7	364.2	371.1	373.8	368.4	355.4	336.0	315.3	301.0	290.1
40.5°	316.0	334.0	352.2	358.6	361.3	355.5	343.3	324.3	303.5	288.9	277.3
41°	303.6	322.1	340.0	345.8	348.8	342.3	330.2	312.4	291.3	276.9	264.7
41.5°	291.5	309.7	327.5	333.1	336.8	329.3	317.5	300.8	279.2	265.4	252.2
42°	279.3	297.2	314.7	325.6	324.5	316.1	304.6	288.4	267.0	253.3	239.9
42.5°	267.1	284.8	301.8	311.9	312.6	303.1	291.8	276.1	255.7	241.7	228.0
43°	254.7	272.3	289.0	297.9	300.6	290.3	279.1	263.7	244.0	230.1	216.6
43.5°	242.6	260.3	276.2	283.9	287.8	277.7	266.5	251.5	233.1	218.7	205.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	207.6	224.2	237.6	245.0	250.4	240.4	228.8	215.2	199.7	185.4	173.6
45.5°	196.6	212.2	224.9	233.0	238.1	227.9	216.5	203.9	188.7	174.8	163.7
46°	185.2	200.5	212.4	220.9	226.3	216.0	204.6	192.3	178.1	164.3	154.0
46.5°	174.0	188.9	199.9	209.0	214.8	204.2	192.5	181.0	167.2	154.6	144.7
47°	163.0	177.4	187.9	197.0	203.3	192.7	181.0	169.5	156.7	144.6	135.5
47.5°	152.4	166.1	176.4	185.3	191.9	181.5	169.6	158.6	146.6	135.4	126.9
48°	142.0	155.2	165.1	173.8	180.7	170.9	158.7	147.7	136.8	126.3	118.7
48.5°	132.0	144.6	154.0	162.7	169.6	160.7	148.2	137.3	127.2	117.9	110.9
49°	122.2	134.2	143.5	151.7	158.7	150.5	137.9	127.0	117.6	109.5	103.4
49.5°	112.8	124.0	133.2	141.1	147.8	140.6	128.4	117.4	108.4	101.5	96.0
50°	104.0	114.0	123.2	130.5	137.6	130.7	119.0	108.1	99.4	94.0	89.2
50.5°	95.2	104.2	113.5	120.3	127.6	121.4	110.1	99.3	91.0	87.4	83.0
51°	87.0	95.2	104.4	110.6	117.8	112.3	101.7	91.1	83.7	80.9	76.7
51.5°	78.8	86.6	95.5	101.3	108.7	103.6	93.6	84.1	76.5	74.3	70.6
52°	71.2	78.5	87.2	92.6	99.8	95.1	87.0	77.2	69.1	67.8	64.3
52.5°	64.0	70.8	79.1	84.0	91.2	87.9	80.2	70.1	61.9	61.3	58.5
53°	57.3	63.7	71.6	75.9	83.5	80.5	73.4	63.2	56.2	55.6	53.4
53.5°	50.9	57.2	64.2	68.4	75.8	73.3	66.6	57.3	51.0	50.6	48.3
54°	45.3	51.1	57.6	61.5	68.0	66.0	59.8	51.9	46.4	45.8	43.7
54.5°	40.2	45.4	51.1	55.0	60.4	58.7	54.3	47.0	42.3	41.2	39.0
55°	35.5	40.4	45.3	49.1	53.9	53.1	49.0	42.7	38.4	37.0	34.7
55.5°	30.9	35.4	39.8	43.6	48.0	47.3	44.1	38.4	34.6	32.8	30.6
56°	27.4	30.9	34.9	38.5	42.6	42.3	39.3	34.5	30.9	29.0	26.8
56.5°	23.8	27.2	30.7	33.6	37.6	37.4	34.7	30.8	27.5	25.4	23.2
57°	20.3	23.7	27.0	29.7	33.0	32.8	30.6	27.1	24.2	22.1	19.9
57.5°	16.7	20.1	23.2	25.9	28.6	28.5	26.6	23.7	21.1	19.0	16.8
58°	13.4	16.5	19.5	22.0	24.6	24.5	23.0	20.5	18.1	15.8	13.5
58.5°	10.1	12.9	15.7	18.2	21.0	20.9	19.6	17.5	14.9	13.5	11.5
59°	7.4	9.8	12.2	14.4	17.5	17.6	16.3	14.1	12.7	11.1	9.4
59.5°	5.4	7.1	9.0	10.8	14.7	15.2	13.8	11.9	10.4	8.7	7.4
60°	4.1	5.2	6.5	7.9	12.0	12.8	11.3	9.8	8.1	6.3	5.4
60.5°	3.0	3.9	4.7	5.6	9.3	10.3	8.8	7.6	5.8	4.0	3.3
61°	2.5	3.3	3.5	4.2	6.6	7.9	6.2	5.4	3.6	3.1	2.6
61.5°	2.1	2.8	3.0	3.1	3.9	5.4	3.8	3.3	2.7	2.4	2.1
62°	1.6	2.3	2.4	2.6	2.9	3.0	2.9	2.4	2.1	1.9	1.7
62.5°	1.2	1.7	1.9	2.2	2.3	2.3	2.2	2.0	1.6	1.5	1.4
63°	1.0	1.3	1.4	1.7	1.8	1.8	1.7	1.5	1.4	1.3	1.2
63.5°	0.8	1.0	1.2	1.3	1.4	1.4	1.4	1.3	1.1	1.1	1.0
64°	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.1	0.9	0.9	0.8
64.5°	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.7	0.7	0.7
65°	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6
65.5°	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5
66°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P775798
 CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

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: P775798
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

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: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	825.5	825.5	825.5	825.5	825.5	825.5
0.5°	825.3	824.3	824.8	825.3	825.5	825.3
1°	824.4	823.2	823.8	824.5	825.0	825.2
1.5°	823.2	821.9	822.7	823.5	824.5	824.9
2°	821.7	820.4	821.3	822.5	823.5	824.4
2.5°	820.2	818.7	819.6	821.2	822.6	824.4
3°	818.4	816.7	817.8	819.6	821.7	823.1
3.5°	816.4	814.5	815.8	818.0	820.5	822.3
4°	814.3	812.2	813.6	816.2	819.2	821.3
4.5°	812.0	809.6	811.2	814.2	817.6	820.0
5°	809.3	806.8	808.6	812.0	815.8	818.7
5.5°	806.5	804.0	805.8	809.6	813.9	817.6
6°	803.5	800.9	803.0	807.2	811.9	815.5
6.5°	800.4	797.5	799.8	804.4	809.6	813.7
7°	797.1	794.2	796.6	801.5	807.3	811.6
7.5°	793.6	790.5	793.1	798.6	804.6	809.2
8°	790.1	786.6	789.6	795.3	801.8	806.7
8.5°	786.3	782.6	785.8	791.9	798.7	804.1
9°	782.5	778.7	781.8	788.3	795.5	801.2
9.5°	778.2	774.4	777.8	784.5	792.1	798.0
10°	774.0	770.2	773.6	780.7	788.5	794.8
10.5°	769.6	765.5	769.3	776.7	784.8	791.2
11°	765.1	760.7	764.8	772.3	780.9	787.6
11.5°	760.5	756.0	760.1	767.9	776.9	783.8
12°	755.6	751.0	755.3	763.4	772.5	779.6
12.5°	750.7	746.0	750.4	758.6	768.1	775.4
13°	745.5	740.8	745.3	753.8	763.6	771.2
13.5°	740.3	735.4	739.9	748.7	758.8	766.5
14°	734.8	730.0	734.5	743.7	754.1	762.0
14.5°	729.2	724.4	729.0	738.5	749.0	757.1
15°	723.4	718.6	723.3	733.1	744.1	752.2
15.5°	717.8	712.5	717.4	727.5	738.6	747.0
16°	711.7	706.6	711.5	721.9	733.2	741.7
16.5°	705.6	700.3	705.4	716.3	727.8	736.3
17°	699.3	694.2	699.2	710.4	722.2	730.8
17.5°	693.2	687.6	692.9	704.2	716.1	725.0
18°	686.8	681.0	686.6	698.0	710.2	719.3
18.5°	680.2	674.3	680.1	691.7	704.1	713.4
19°	673.7	667.8	673.3	685.2	697.8	707.4
19.5°	667.1	661.0	666.8	678.8	691.4	701.2
20°	660.5	654.0	660.2	672.0	684.9	695.1
20.5°	654.0	647.1	653.4	665.1	678.1	688.6
21°	646.9	640.1	646.6	658.2	671.4	682.2



TEST NUMBER: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	625.3	619.0	625.3	636.4	650.1	662.4
23°	617.9	611.6	617.9	629.0	642.8	655.6
23.5°	610.6	604.4	610.8	621.6	635.3	648.7
24°	603.0	597.0	603.2	614.0	627.7	641.6
24.5°	595.4	589.6	595.9	606.2	620.3	634.3
25°	587.8	581.9	588.2	598.4	612.7	627.0
25.5°	580.0	574.3	580.6	590.6	604.9	619.7
26°	572.4	566.6	572.6	582.4	597.3	612.4
26.5°	564.4	558.6	564.4	574.5	589.4	604.6
27°	556.3	550.5	556.2	565.9	581.4	597.0
27.5°	547.9	542.3	547.7	557.5	573.3	589.0
28°	539.4	533.4	538.7	548.9	565.0	581.1
28.5°	530.6	524.5	530.2	540.2	556.5	573.1
29°	521.7	515.4	521.1	531.5	548.0	564.9
29.5°	512.7	506.1	511.7	522.3	539.3	556.4
30°	503.2	496.5	502.2	513.3	530.7	547.9
30.5°	493.7	486.1	492.7	504.0	521.5	539.3
31°	483.9	475.8	482.5	494.6	512.4	530.4
31.5°	473.9	465.3	472.4	485.4	503.2	521.2
32°	463.9	454.6	461.8	475.5	493.8	511.7
32.5°	453.4	443.9	451.3	466.0	484.3	502.4
33°	442.7	432.8	440.5	456.2	474.4	492.7
33.5°	431.9	421.8	429.8	446.3	464.5	482.6
34°	420.9	410.9	419.1	436.1	454.3	472.0
34.5°	409.7	399.8	408.2	425.3	444.1	461.3
35°	398.7	389.0	397.0	414.6	433.2	450.0
35.5°	387.5	378.0	386.3	403.5	422.4	438.8
36°	376.1	367.3	375.5	392.3	410.8	426.8
36.5°	364.8	356.3	364.5	380.8	398.9	414.8
37°	353.3	345.2	353.4	368.2	386.7	402.4
37.5°	341.7	333.8	342.1	356.3	374.8	390.1
38°	330.1	322.6	330.4	343.7	361.7	377.3
38.5°	318.0	310.3	318.3	331.6	348.9	365.2
39°	306.4	297.9	306.2	324.6	335.6	352.5
39.5°	294.4	285.6	294.1	310.5	320.6	340.3
40°	282.4	273.2	281.8	296.3	308.1	328.1
40.5°	270.4	261.4	269.7	282.2	295.6	316.0
41°	258.6	250.0	257.1	268.1	283.2	303.6
41.5°	247.3	238.7	244.8	255.6	270.7	291.5
42°	235.3	227.7	232.9	243.0	258.1	279.3
42.5°	223.8	216.6	221.4	230.6	245.8	267.1
43°	212.5	205.7	210.0	218.3	233.3	254.7
43.5°	201.0	194.6	198.3	206.3	221.1	242.6



TEST NUMBER: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	169.1	162.1	164.8	171.5	186.8	207.6
45.5°	158.9	152.0	153.7	160.6	176.3	196.6
46°	148.9	142.1	143.2	150.2	165.8	185.2
46.5°	139.7	132.0	132.9	140.2	155.8	174.0
47°	130.1	122.5	123.1	130.4	145.7	163.0
47.5°	121.3	113.2	113.8	121.2	136.3	152.4
48°	112.9	104.2	104.8	112.3	126.7	142.0
48.5°	104.8	95.5	96.4	103.9	117.5	132.0
49°	97.1	87.4	88.3	95.9	108.5	122.2
49.5°	89.8	79.6	80.7	88.2	100.1	112.8
50°	83.2	72.4	73.8	81.1	91.7	104.0
50.5°	76.8	65.9	67.2	74.2	83.9	95.2
51°	70.3	60.0	61.3	67.9	76.5	87.0
51.5°	63.9	54.6	55.8	61.7	69.6	78.8
52°	58.4	49.9	50.8	56.2	63.1	71.2
52.5°	53.0	45.5	46.1	50.9	56.9	64.0
53°	48.0	41.3	42.0	45.9	51.0	57.3
53.5°	43.4	37.5	37.9	41.1	45.6	50.9
54°	39.1	33.9	34.1	36.7	40.6	45.3
54.5°	34.9	30.7	30.9	32.6	36.0	40.2
55°	31.1	27.5	27.6	29.1	31.4	35.5
55.5°	27.3	24.3	24.4	25.7	27.9	30.9
56°	23.9	21.2	21.2	22.3	24.3	27.4
56.5°	20.7	18.0	17.9	18.9	20.8	23.8
57°	17.7	14.7	14.7	15.5	17.3	20.3
57.5°	14.5	11.5	11.5	12.1	13.9	16.7
58°	12.3	8.8	8.7	9.2	10.7	13.4
58.5°	10.1	6.6	6.4	6.8	8.0	10.1
59°	8.0	4.9	4.8	5.1	5.9	7.4
59.5°	5.8	3.7	3.6	3.8	4.3	5.4
60°	3.6	3.2	3.1	3.3	3.3	4.1
60.5°	2.8	2.5	2.5	2.7	2.8	3.0
61°	2.3	2.0	1.9	2.3	2.3	2.5
61.5°	1.8	1.4	1.4	1.7	1.8	2.1
62°	1.4	1.2	1.2	1.2	1.4	1.6
62.5°	1.2	1.0	0.9	1.0	1.1	1.2
63°	1.0	0.8	0.8	0.8	0.9	1.0
63.5°	0.8	0.7	0.6	0.6	0.7	0.8
64°	0.7	0.6	0.5	0.5	0.6	0.6
64.5°	0.6	0.5	0.5	0.5	0.5	0.5
65°	0.5	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: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

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: P775798

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-4000K

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°	675.6	686.5	695.3	697.4	695.4	690.7	680.9	667.7	657.4	650.2	644.5
22°	669.1	679.9	688.8	691.0	689.3	684.5	674.2	661.2	650.3	642.9	637.1



44°	230.5	248.2	263.4	269.8	275.2	265.3	253.6	239.0	221.5	207.2	194.5
44.5°	219.0	236.2	250.4	257.4	262.8	252.9	241.4	227.1	210.9	196.4	184.2



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°	639.7	633.2	639.5	651.0	664.3	675.6
22°	632.5	626.0	632.4	643.8	657.2	669.1



44°	190.2	183.5	186.9	194.4	209.5	230.5
44.5°	179.7	172.6	175.9	182.9	198.1	219.0

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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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Scaled Data Report



(END OF REPORT)