

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: P775797

Luminaire Tested: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775797
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-3500K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

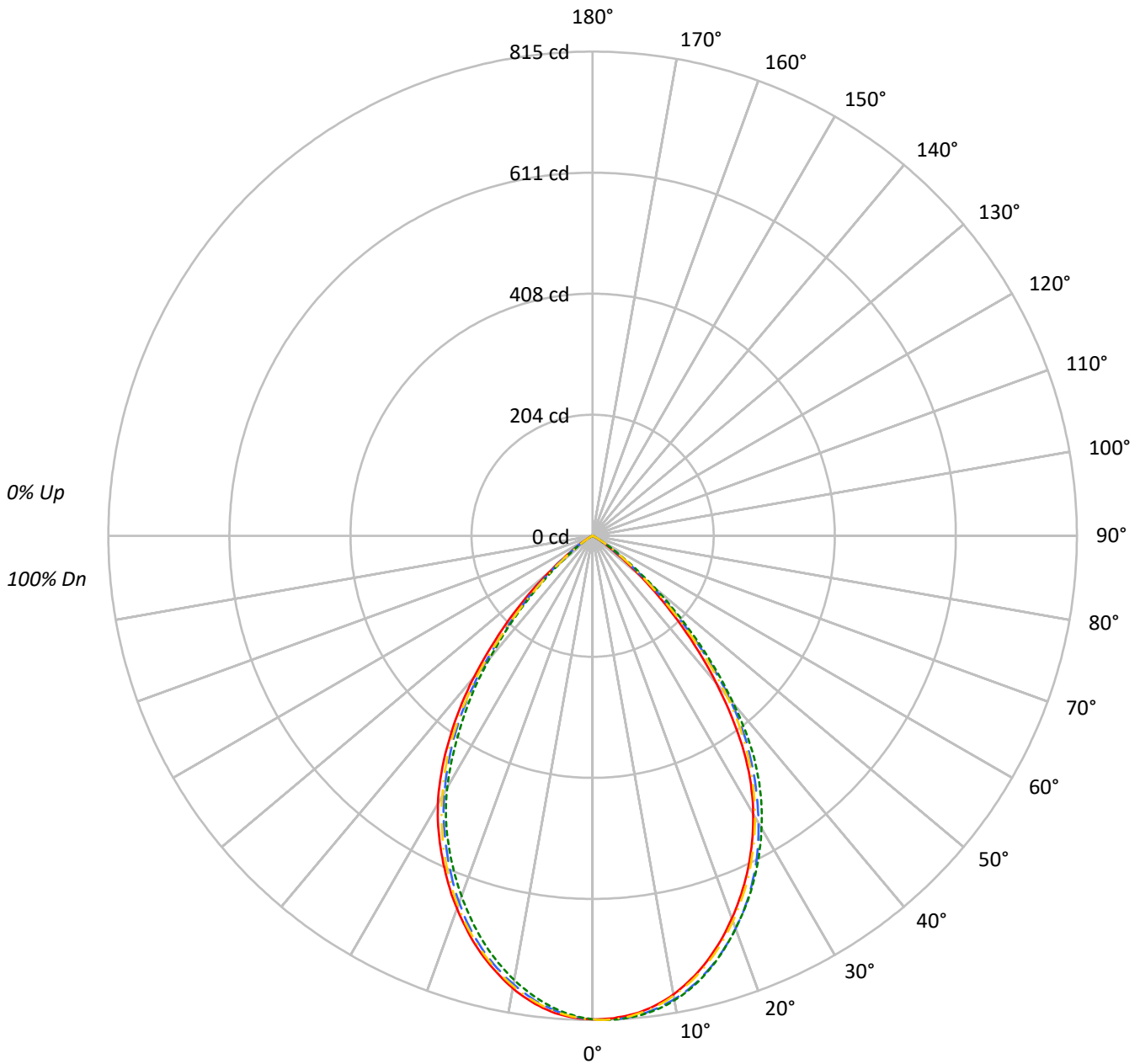
Lumens per Lamp: N/A
Luminaire Lumens: 1023.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P775797
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	44629	44629	44629	44629
5°	44431	44701	44233	43787
10°	43631	44204	43046	42278
15°	42100	42951	41254	40222
20°	39991	41059	38953	37622
25°	37405	38809	36202	34708
30°	34208	35987	32954	30992
35°	29700	32270	28228	25672
40°	23151	26378	22256	19286
45°	15878	19149	15265	12397
50°	8742	11573	8366	6089
55°	3345	5085	3613	2590
60°	439	1305	866	340
65°	52	104	78	52
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: 19149 cd/sqm



TEST NUMBER: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	7.4
10°-20°	206.0	20.1
20°-30°	278.7	27.2
30°-40°	267.6	26.1
40°-50°	155.8	15.2
50°-60°	38.4	3.7
60°-70°	1.2	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°	560.8	54.8
0°-40°	828.4	80.9
0°-60°	1022.6	99.9
0°-90°	1023.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	814	814	814	814	814	
5°	807	812	804	796	807	76
15°	742	757	727	709	742	208
25°	618	642	598	574	618	283
35°	444	482	422	384	444	273
45°	205	247	197	160	205	158
55°	35	53	38	27	35	36
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°	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1	814.1
0.5°	813.9	814.0	814.7	815.2	814.4	814.7	814.9	814.6	813.8	813.4	813.5
1°	813.8	814.1	815.0	815.6	814.9	815.1	815.1	814.5	813.4	812.7	812.8
1.5°	813.5	814.1	815.1	815.9	815.2	815.4	815.0	814.2	813.1	812.0	811.8
2°	813.1	814.0	815.1	815.9	815.4	815.4	814.9	813.8	812.2	811.1	810.6
2.5°	813.1	813.7	814.8	815.7	815.2	815.1	814.5	813.1	811.4	809.9	809.2
3°	811.7	813.1	814.6	815.5	815.0	814.8	813.9	812.2	810.2	808.6	807.6
3.5°	810.9	812.5	814.0	815.0	814.6	814.1	813.1	811.2	808.9	807.1	806.1
4°	809.9	811.8	813.3	814.4	813.9	813.5	812.2	809.8	807.5	805.5	803.9
4.5°	808.7	810.9	812.4	813.6	813.2	812.6	810.9	808.4	805.9	803.4	801.9
5°	807.4	809.7	811.4	812.7	812.3	811.5	809.6	806.8	803.8	801.3	799.6
5.5°	806.3	808.4	810.4	811.5	811.4	810.4	808.0	804.9	801.5	799.0	797.0
6°	804.2	806.9	809.0	810.3	810.2	808.9	806.2	802.7	799.2	796.5	794.3
6.5°	802.4	805.4	807.5	808.9	808.8	807.3	804.5	800.3	796.6	793.8	791.3
7°	800.4	803.5	805.7	807.4	807.3	805.7	802.3	797.9	794.0	790.8	788.4
7.5°	798.1	801.5	803.9	805.6	805.5	803.9	800.0	795.0	790.8	787.6	785.0
8°	795.6	799.2	801.9	803.5	803.6	801.9	797.6	792.2	787.7	784.3	781.7
8.5°	793.0	796.8	799.7	801.4	801.5	799.6	794.9	789.1	784.4	780.9	778.1
9°	790.1	794.1	797.3	799.0	799.2	797.2	792.3	785.9	780.8	777.4	774.6
9.5°	787.0	791.5	794.7	796.5	796.8	794.7	789.1	782.4	777.4	773.5	770.7
10°	783.8	788.5	792.1	793.9	794.1	791.8	786.0	779.0	773.3	769.7	766.7
10.5°	780.3	785.3	789.1	791.0	791.2	788.9	782.7	775.1	769.4	765.7	762.5
11°	776.7	782.1	786.3	788.0	788.2	785.6	779.2	771.3	765.2	761.5	758.4
11.5°	773.0	778.6	782.9	784.7	784.9	782.3	775.7	767.3	760.8	757.2	754.0
12°	768.8	774.9	779.7	781.2	781.4	778.6	771.7	763.1	756.4	752.7	749.4
12.5°	764.7	771.1	775.9	777.7	777.7	774.9	767.7	758.8	751.8	748.1	744.9
13°	760.5	767.3	772.4	774.1	774.1	771.0	763.8	754.4	747.2	743.4	740.2
13.5°	755.9	763.0	768.4	770.0	769.9	766.7	759.3	749.8	742.2	738.5	735.2
14°	751.5	758.8	764.3	766.0	765.7	762.5	755.0	745.1	737.3	733.5	730.2
14.5°	746.7	754.2	760.0	761.8	761.1	757.9	750.4	740.1	732.2	728.1	725.0
15°	741.8	749.8	755.6	757.5	756.8	753.4	745.5	735.1	726.9	722.7	719.6
15.5°	736.7	745.0	751.0	753.1	752.0	748.6	740.5	729.9	721.4	717.4	714.1
16°	731.5	740.0	746.3	748.2	747.3	743.7	735.6	724.6	716.0	711.8	708.3
16.5°	726.1	735.0	741.3	743.4	742.3	738.5	730.3	719.2	710.3	705.9	702.4
17°	720.7	729.8	736.4	738.5	737.0	733.4	725.1	713.6	704.5	699.8	696.4
17.5°	715.0	724.5	731.2	733.5	731.9	728.0	719.5	707.8	698.7	693.8	690.1
18°	709.4	719.0	726.0	728.1	726.3	722.6	714.1	702.0	692.4	687.5	683.7
18.5°	703.6	713.4	720.4	722.8	720.8	717.0	708.3	696.0	686.3	681.1	677.3
19°	697.6	707.7	715.1	717.3	715.3	711.4	702.4	689.9	680.2	674.8	670.5
19.5°	691.5	701.8	709.3	711.7	709.6	705.5	696.4	683.7	674.1	668.1	663.6
20°	685.5	695.9	703.7	706.0	703.8	699.5	690.5	677.6	667.7	661.4	656.7
20.5°	679.1	689.6	697.8	699.8	697.7	693.6	684.3	671.2	661.2	654.6	649.9
21°	672.8	683.4	691.8	693.9	691.7	687.4	677.9	664.8	654.8	647.9	643.0



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CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	653.2	663.9	673.0	675.0	673.9	668.2	658.4	645.7	634.4	626.8	620.6
23°	646.5	657.2	666.4	668.5	667.5	661.5	652.0	638.9	627.2	619.5	613.1
23.5°	639.8	650.2	659.7	661.8	661.2	654.7	645.5	632.0	620.1	612.0	605.3
24°	632.7	643.3	652.6	654.9	654.8	647.9	638.5	625.0	612.9	604.6	597.7
24.5°	625.6	636.3	645.7	648.1	648.5	642.2	631.3	618.0	606.0	597.1	589.8
25°	618.4	629.2	638.5	641.0	641.6	635.1	624.0	610.9	598.5	589.6	582.2
25.5°	611.1	621.6	631.3	633.7	634.6	627.9	616.7	603.6	591.2	581.9	574.4
26°	603.9	614.3	623.8	626.6	627.7	620.9	609.3	596.5	583.9	574.4	566.6
26.5°	596.2	606.9	616.1	619.2	620.8	613.4	601.6	589.1	576.5	566.7	558.7
27°	588.7	599.1	608.5	611.7	613.7	606.1	594.1	581.8	568.7	559.0	550.8
27.5°	580.9	591.1	600.6	604.1	606.3	598.5	586.5	574.3	561.3	551.2	542.7
28°	573.1	583.2	592.4	596.2	598.9	591.0	578.8	566.6	553.6	542.9	534.3
28.5°	565.2	575.2	584.2	588.4	591.6	583.4	571.1	559.0	545.8	534.5	525.6
29°	557.1	567.0	575.8	580.3	584.1	575.7	563.0	551.1	537.7	526.2	517.0
29.5°	548.8	558.4	567.1	572.2	576.2	568.0	555.0	542.8	529.2	517.5	507.8
30°	540.4	549.7	558.5	563.9	568.5	560.2	546.8	534.5	520.6	508.8	498.7
30.5°	531.8	541.0	549.7	555.2	560.5	552.1	538.5	525.8	512.0	499.6	489.4
31°	523.1	532.1	540.5	546.8	552.8	543.9	529.9	517.2	502.8	490.4	480.0
31.5°	514.0	523.0	531.6	538.0	544.4	535.7	521.3	508.2	493.4	481.1	470.4
32°	504.7	513.5	522.3	528.9	536.1	527.3	512.6	499.1	483.8	471.6	460.6
32.5°	495.5	504.5	513.0	519.8	527.7	518.7	503.7	489.9	474.1	461.8	451.0
33°	485.8	495.0	503.8	510.7	519.1	509.9	494.7	480.1	464.1	451.8	441.3
33.5°	475.9	485.4	494.8	501.6	510.1	501.1	485.6	470.3	453.8	441.7	431.6
34°	465.5	475.6	485.2	492.3	501.3	492.0	476.3	460.4	443.5	431.7	421.7
34.5°	454.9	466.0	475.7	482.9	491.6	482.5	467.1	450.2	432.5	421.0	411.5
35°	443.8	455.9	466.0	473.1	482.2	473.0	457.7	439.8	421.8	410.3	401.4
35.5°	432.8	445.8	456.7	463.4	472.2	463.5	448.2	429.5	411.2	399.7	391.1
36°	420.9	435.6	446.5	453.6	462.2	453.7	438.5	419.0	400.5	388.9	380.4
36.5°	409.0	424.8	437.0	443.9	451.5	443.6	428.4	408.4	389.6	377.9	369.3
37°	396.8	413.8	426.8	433.7	440.6	433.2	418.0	397.9	378.3	366.8	357.7
37.5°	384.7	402.4	416.3	423.1	429.4	422.5	407.6	387.0	367.7	355.6	346.4
38°	372.1	390.7	405.5	411.8	417.8	411.3	396.7	376.2	356.6	344.1	334.4
38.5°	360.1	379.0	394.6	401.2	405.5	399.9	385.6	365.3	345.5	332.5	322.6
39°	347.6	366.9	383.1	389.6	393.5	388.2	374.1	354.3	334.2	320.8	310.7
39.5°	335.6	354.8	371.4	378.0	381.1	376.1	362.4	343.0	322.9	309.0	298.4
40°	323.5	341.9	359.1	365.9	368.6	363.3	350.5	331.4	311.0	296.9	286.1
40.5°	311.6	329.4	347.4	353.6	356.3	350.6	338.5	319.8	299.3	284.9	273.5
41°	299.5	317.7	335.3	341.0	344.0	337.6	325.7	308.1	287.3	273.0	261.0
41.5°	287.5	305.4	323.0	328.5	332.1	324.7	313.1	296.6	275.4	261.7	248.7
42°	275.4	293.1	310.3	321.1	320.0	311.8	300.3	284.4	263.3	249.8	236.5
42.5°	263.4	280.9	297.7	307.6	308.3	298.9	287.8	272.3	252.2	238.3	224.9
43°	251.2	268.6	285.0	293.7	296.4	286.2	275.3	260.0	240.6	226.9	213.6
43.5°	239.2	256.7	272.4	280.0	283.8	273.8	262.8	248.1	229.9	215.7	202.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	204.8	221.1	234.3	241.6	247.0	237.1	225.7	212.3	196.9	182.8	171.2
45.5°	193.9	209.2	221.8	229.8	234.8	224.8	213.5	201.1	186.1	172.4	161.4
46°	182.7	197.7	209.4	217.9	223.2	213.0	201.7	189.6	175.6	162.0	151.9
46.5°	171.6	186.3	197.1	206.1	211.8	201.4	189.9	178.5	164.9	152.5	142.7
47°	160.8	175.0	185.3	194.3	200.5	190.1	178.5	167.1	154.5	142.6	133.7
47.5°	150.3	163.8	174.0	182.7	189.3	179.0	167.3	156.4	144.6	133.5	125.2
48°	140.0	153.0	162.8	171.4	178.2	168.6	156.5	145.6	134.9	124.6	117.1
48.5°	130.2	142.6	151.9	160.4	167.3	158.5	146.2	135.4	125.5	116.3	109.4
49°	120.5	132.3	141.5	149.6	156.5	148.4	136.0	125.3	116.0	108.0	102.0
49.5°	111.3	122.3	131.3	139.2	145.8	138.7	126.6	115.7	106.9	100.1	94.7
50°	102.5	112.4	121.5	128.7	135.7	128.9	117.3	106.6	98.1	92.7	88.0
50.5°	93.9	102.8	111.9	118.7	125.8	119.7	108.6	98.0	89.8	86.2	81.8
51°	85.7	93.9	103.0	109.0	116.2	110.7	100.3	89.9	82.5	79.8	75.7
51.5°	77.7	85.4	94.2	99.9	107.2	102.2	92.4	83.0	75.4	73.3	69.6
52°	70.2	77.5	86.0	91.3	98.4	93.8	85.7	76.1	68.2	66.8	63.4
52.5°	63.1	69.8	78.0	82.8	89.9	86.6	79.1	69.2	61.0	60.4	57.7
53°	56.5	62.8	70.6	74.9	82.4	79.4	72.4	62.3	55.4	54.9	52.6
53.5°	50.2	56.4	63.4	67.5	74.8	72.3	65.7	56.5	50.3	49.9	47.6
54°	44.7	50.4	56.8	60.7	67.1	65.0	59.0	51.2	45.8	45.1	43.1
54.5°	39.6	44.8	50.4	54.3	59.6	57.9	53.5	46.4	41.7	40.6	38.5
55°	35.0	39.8	44.7	48.5	53.2	52.4	48.4	42.1	37.8	36.5	34.3
55.5°	30.5	34.9	39.3	43.0	47.4	46.7	43.5	37.8	34.1	32.4	30.2
56°	27.0	30.4	34.4	37.9	42.0	41.7	38.7	34.0	30.5	28.6	26.4
56.5°	23.5	26.9	30.2	33.1	37.1	36.9	34.3	30.3	27.1	25.1	22.8
57°	20.0	23.4	26.6	29.3	32.6	32.4	30.2	26.8	23.8	21.8	19.6
57.5°	16.5	19.8	22.8	25.5	28.2	28.1	26.2	23.4	20.8	18.7	16.6
58°	13.2	16.2	19.2	21.7	24.3	24.2	22.7	20.3	17.8	15.6	13.3
58.5°	10.0	12.8	15.5	17.9	20.7	20.6	19.4	17.2	14.7	13.3	11.3
59°	7.3	9.6	12.0	14.2	17.2	17.4	16.1	13.9	12.5	11.0	9.3
59.5°	5.4	7.0	8.8	10.6	14.5	15.0	13.6	11.8	10.3	8.6	7.3
60°	4.0	5.1	6.4	7.8	11.9	12.6	11.2	9.6	7.9	6.2	5.4
60.5°	2.9	3.8	4.6	5.5	9.2	10.2	8.7	7.5	5.7	3.9	3.3
61°	2.5	3.3	3.5	4.1	6.5	7.8	6.2	5.4	3.6	3.0	2.6
61.5°	2.1	2.8	2.9	3.0	3.8	5.4	3.7	3.2	2.7	2.4	2.1
62°	1.6	2.2	2.4	2.6	2.9	2.9	2.9	2.4	2.1	1.9	1.7
62.5°	1.2	1.7	1.9	2.1	2.2	2.2	2.1	2.0	1.6	1.5	1.3
63°	1.0	1.2	1.4	1.7	1.8	1.8	1.7	1.5	1.3	1.2	1.2
63.5°	0.8	1.0	1.2	1.2	1.4	1.4	1.3	1.2	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°	0.4	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6
65.5°	0.4	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5
66°	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4



TEST NUMBER: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

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: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

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: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	814.1	814.1	814.1	814.1	814.1	814.1
0.5°	813.9	812.9	813.4	813.9	814.1	813.9
1°	813.0	811.8	812.4	813.1	813.6	813.8
1.5°	811.8	810.6	811.4	812.2	813.1	813.5
2°	810.4	809.0	809.9	811.1	812.2	813.1
2.5°	808.9	807.3	808.2	809.8	811.3	813.1
3°	807.1	805.4	806.5	808.2	810.4	811.7
3.5°	805.1	803.2	804.5	806.7	809.1	810.9
4°	803.1	801.0	802.3	804.9	807.9	809.9
4.5°	800.7	798.4	800.0	803.0	806.3	808.7
5°	798.1	795.7	797.4	800.7	804.6	807.4
5.5°	795.4	792.9	794.7	798.4	802.6	806.3
6°	792.4	789.9	791.9	796.0	800.6	804.2
6.5°	789.3	786.5	788.8	793.2	798.4	802.4
7°	786.1	783.2	785.6	790.4	796.1	800.4
7.5°	782.6	779.6	782.2	787.5	793.5	798.1
8°	779.1	775.8	778.7	784.3	790.7	795.6
8.5°	775.4	771.8	774.9	780.9	787.6	793.0
9°	771.6	767.9	771.0	777.4	784.5	790.1
9.5°	767.5	763.7	767.1	773.7	781.1	787.0
10°	763.3	759.5	762.9	770.0	777.6	783.8
10.5°	759.0	754.9	758.7	765.9	774.0	780.3
11°	754.5	750.2	754.2	761.7	770.1	776.7
11.5°	750.0	745.6	749.6	757.3	766.1	773.0
12°	745.1	740.6	744.9	752.8	761.8	768.8
12.5°	740.3	735.7	740.1	748.1	757.5	764.7
13°	735.2	730.5	735.0	743.4	753.1	760.5
13.5°	730.1	725.2	729.7	738.4	748.4	755.9
14°	724.6	719.9	724.4	733.5	743.6	751.5
14.5°	719.1	714.4	718.9	728.3	738.6	746.7
15°	713.4	708.7	713.3	722.9	733.8	741.8
15.5°	707.8	702.7	707.5	717.4	728.4	736.7
16°	701.9	696.9	701.7	712.0	723.1	731.5
16.5°	695.9	690.6	695.6	706.4	717.8	726.1
17°	689.6	684.6	689.6	700.6	712.2	720.7
17.5°	683.6	678.1	683.3	694.5	706.2	715.0
18°	677.3	671.6	677.1	688.4	700.4	709.4
18.5°	670.8	665.0	670.7	682.2	694.4	703.6
19°	664.4	658.6	664.0	675.7	688.1	697.6
19.5°	657.9	651.9	657.6	669.4	681.9	691.5
20°	651.4	644.9	651.1	662.7	675.5	685.5
20.5°	644.9	638.2	644.4	655.9	668.8	679.1
21°	638.0	631.3	637.6	649.1	662.1	672.8



TEST NUMBER: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	616.7	610.4	616.7	627.6	641.1	653.2
23°	609.3	603.2	609.3	620.3	633.9	646.5
23.5°	602.1	596.0	602.4	613.0	626.6	639.8
24°	594.6	588.7	594.9	605.5	619.1	632.7
24.5°	587.1	581.4	587.7	597.8	611.8	625.6
25°	579.6	573.8	580.1	590.2	604.3	618.4
25.5°	572.0	566.3	572.6	582.5	596.6	611.1
26°	564.5	558.7	564.6	574.4	589.0	603.9
26.5°	556.6	550.9	556.6	566.6	581.2	596.2
27°	548.6	542.9	548.5	558.1	573.4	588.7
27.5°	540.4	534.8	540.1	549.8	565.4	580.9
28°	532.0	526.0	531.3	541.3	557.1	573.1
28.5°	523.2	517.3	522.9	532.8	548.8	565.2
29°	514.5	508.2	513.9	524.1	540.5	557.1
29.5°	505.6	499.1	504.7	515.1	531.9	548.8
30°	496.3	489.6	495.3	506.2	523.3	540.4
30.5°	486.8	479.4	485.8	497.0	514.3	531.8
31°	477.2	469.3	475.9	487.8	505.3	523.1
31.5°	467.4	458.9	465.9	478.7	496.2	514.0
32°	457.5	448.3	455.4	468.9	487.0	504.7
32.5°	447.1	437.8	445.1	459.5	477.6	495.5
33°	436.6	426.8	434.5	449.9	467.8	485.8
33.5°	425.9	416.0	423.8	440.2	458.1	475.9
34°	415.1	405.2	413.3	430.1	448.0	465.5
34.5°	404.0	394.3	402.5	419.5	437.9	454.9
35°	393.1	383.6	391.5	408.8	427.2	443.8
35.5°	382.2	372.8	381.0	398.0	416.6	432.8
36°	370.9	362.2	370.3	386.9	405.1	420.9
36.5°	359.8	351.4	359.5	375.6	393.4	409.0
37°	348.4	340.4	348.5	363.1	381.4	396.8
37.5°	337.0	329.2	337.4	351.4	369.6	384.7
38°	325.5	318.1	325.9	339.0	356.7	372.1
38.5°	313.6	306.0	313.9	327.0	344.1	360.1
39°	302.1	293.8	301.9	320.2	330.9	347.6
39.5°	290.3	281.6	290.0	306.2	316.1	335.6
40°	278.5	269.5	277.9	292.2	303.8	323.5
40.5°	266.7	257.8	266.0	278.3	291.5	311.6
41°	255.0	246.5	253.5	264.4	279.3	299.5
41.5°	243.9	235.4	241.5	252.1	267.0	287.5
42°	232.1	224.6	229.7	239.7	254.6	275.4
42.5°	220.8	213.6	218.3	227.4	242.4	263.4
43°	209.6	202.8	207.1	215.3	230.0	251.2
43.5°	198.3	191.9	195.6	203.4	218.1	239.2



TEST NUMBER: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	166.8	159.9	162.5	169.1	184.3	204.8
45.5°	156.7	149.9	151.6	158.4	173.8	193.9
46°	146.9	140.1	141.2	148.1	163.5	182.7
46.5°	137.8	130.2	131.1	138.2	153.7	171.6
47°	128.3	120.8	121.4	128.6	143.7	160.8
47.5°	119.7	111.6	112.2	119.5	134.4	150.3
48°	111.4	102.8	103.3	110.7	124.9	140.0
48.5°	103.3	94.1	95.0	102.4	115.9	130.2
49°	95.7	86.2	87.1	94.6	107.0	120.5
49.5°	88.5	78.5	79.6	87.0	98.7	111.3
50°	82.1	71.4	72.8	79.9	90.4	102.5
50.5°	75.8	65.0	66.3	73.2	82.7	93.9
51°	69.3	59.2	60.5	66.9	75.5	85.7
51.5°	63.0	53.9	55.1	60.9	68.6	77.7
52°	57.6	49.2	50.1	55.4	62.2	70.2
52.5°	52.3	44.9	45.5	50.2	56.1	63.1
53°	47.3	40.8	41.4	45.2	50.3	56.5
53.5°	42.8	37.0	37.4	40.5	45.0	50.2
54°	38.5	33.5	33.6	36.2	40.1	44.7
54.5°	34.4	30.2	30.4	32.1	35.5	39.6
55°	30.7	27.1	27.2	28.7	31.0	35.0
55.5°	26.9	24.0	24.1	25.3	27.5	30.5
56°	23.6	20.9	20.9	22.0	24.0	27.0
56.5°	20.4	17.8	17.7	18.6	20.5	23.5
57°	17.5	14.5	14.5	15.3	17.0	20.0
57.5°	14.3	11.3	11.3	12.0	13.7	16.5
58°	12.1	8.7	8.6	9.1	10.5	13.2
58.5°	10.0	6.5	6.3	6.7	7.9	10.0
59°	7.9	4.8	4.7	5.0	5.8	7.3
59.5°	5.7	3.7	3.6	3.7	4.3	5.4
60°	3.6	3.1	3.0	3.2	3.2	4.0
60.5°	2.8	2.5	2.5	2.7	2.8	2.9
61°	2.2	2.0	1.9	2.2	2.2	2.5
61.5°	1.8	1.4	1.3	1.7	1.8	2.1
62°	1.4	1.2	1.2	1.2	1.3	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	0.4	0.4	0.5	0.5
65°	0.5	0.4	0.4	0.4	0.4	0.4
65.5°	0.4	0.4	0.4	0.4	0.4	0.4
66°	0.4	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P775797

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

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: P775797
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3500K

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°	666.3	677.0	685.7	687.8	685.8	681.2	671.4	658.5	648.3	641.2	635.6
22°	659.8	670.6	679.3	681.4	679.7	675.0	664.9	652.1	641.3	634.1	628.3



44°	227.4	244.8	259.7	266.1	271.4	261.6	250.1	235.7	218.4	204.3	191.8
44.5°	215.9	233.0	247.0	253.9	259.1	249.4	238.1	224.0	208.0	193.7	181.7



66.5°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	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°	630.8	624.4	630.7	642.0	655.1	666.3
22°	623.8	617.4	623.7	635.0	648.2	659.8



44°	187.6	181.0	184.3	191.8	206.7	227.4
44.5°	177.2	170.2	173.5	180.3	195.4	215.9

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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)