

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: P775891

Luminaire Tested: HCDJBL5510CSD-HCD8TSQC-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775891
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-HCD8TSQC-1000lm-3000K
Description: 8 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

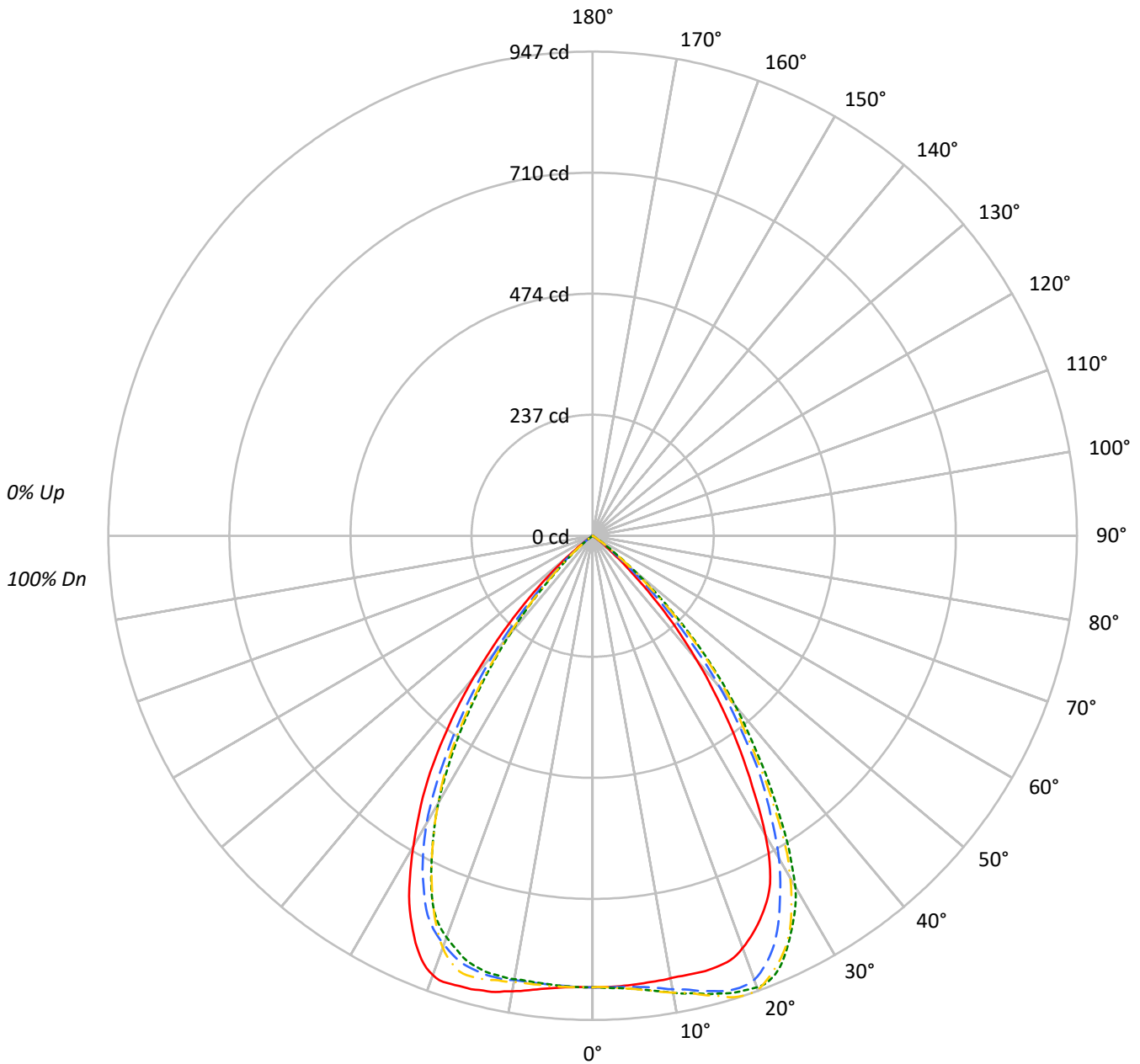
Lumens per Lamp: N/A
Luminaire Lumens: 1186.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.07
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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										
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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93					93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78					78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72					72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66					66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61					61			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56					56			
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52					52			
9	71	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21173	21173	21173	21173
5°	21227	21410	21374	21230
10°	21392	22099	22028	21444
15°	21823	23027	22789	21684
20°	21899	23981	23323	21315
25°	21142	23700	22150	19764
30°	18728	21962	19423	16710
35°	14376	17920	15886	12499
40°	9879	13619	11312	7872
45°	5195	8844	6477	3686
50°	1742	3995	2488	1194
55°	125	865	272	29
60°	19	24	19	14
65°	11	11	11	6
70°	7	7	7	7
75°	9	9	9	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 8939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	7.1
10°-20°	254.9	21.5
20°-30°	371.8	31.3
30°-40°	320.3	27.0
40°-50°	140.8	11.9
50°-60°	14.0	1.2
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	711.5	59.9
0°-40°	1031.8	86.9
0°-60°	1186.6	100.0
0°-90°	1186.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	883	883	883	883	883	
5°	882	890	888	882	882	84
15°	879	928	918	874	879	248
25°	799	896	837	747	799	363
35°	491	612	543	427	491	305
45°	153	261	191	109	153	122
55°	3	21	6	1	3	10
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
0.5°	883.2	883.6	883.8	883.1	883.4	882.9	882.5	882.7	883.0	883.3	883.3
1°	883.2	883.7	883.9	883.6	883.7	883.2	882.6	882.8	883.1	883.3	883.3
1.5°	883.2	883.6	883.8	883.9	884.3	883.7	882.9	883.1	883.1	883.2	883.1
2°	883.0	883.3	883.7	884.2	884.9	884.4	883.7	883.6	883.4	883.2	883.0
2.5°	883.0	883.3	883.8	884.2	885.4	885.4	884.4	884.2	884.0	883.3	882.7
3°	882.7	883.2	883.9	884.5	885.8	885.7	885.4	885.3	884.4	883.4	882.5
3.5°	882.5	883.0	884.2	885.1	886.4	886.5	886.3	886.1	885.0	883.7	882.3
4°	882.2	882.7	884.5	885.8	887.3	887.5	887.3	887.4	885.9	883.9	882.1
4.5°	882.1	882.7	885.0	886.8	888.3	888.7	888.5	888.4	887.0	884.3	881.7
5°	881.9	882.7	885.6	888.0	889.5	889.8	889.9	889.9	888.0	884.7	881.7
5.5°	881.7	883.1	886.5	889.4	890.7	891.1	891.2	891.7	889.3	885.2	881.6
6°	881.4	883.3	887.4	890.7	892.2	892.6	892.9	893.3	890.6	885.9	881.6
6.5°	880.9	883.6	888.6	892.4	893.8	894.0	894.6	895.0	892.3	887.0	881.7
7°	880.5	883.9	889.9	894.2	895.5	895.5	896.2	897.0	894.0	887.9	881.7
7.5°	880.2	884.3	891.5	896.3	897.3	897.3	897.8	898.7	895.7	889.0	881.7
8°	880.1	884.9	893.0	898.5	899.1	899.1	899.8	900.9	897.7	890.0	881.8
8.5°	879.9	885.9	894.7	900.7	901.0	901.2	901.8	903.0	899.6	891.0	882.0
9°	879.7	887.1	896.8	903.3	903.3	903.3	903.6	905.2	901.5	892.2	882.1
9.5°	879.2	888.0	899.0	905.6	905.2	905.4	905.4	907.3	903.2	893.2	882.1
10°	878.6	888.9	900.8	908.2	907.6	907.8	907.5	909.0	904.7	894.2	882.6
10.5°	878.2	889.6	902.5	910.4	909.8	910.0	909.4	910.6	906.2	895.6	883.8
11°	878.2	890.5	904.0	912.2	912.0	912.1	911.1	912.2	907.9	897.7	884.8
11.5°	878.6	891.9	905.6	913.8	913.6	913.8	912.8	913.9	910.3	899.5	885.1
12°	878.8	893.6	907.9	915.6	914.8	915.6	914.8	916.4	912.3	901.2	884.8
12.5°	878.8	895.3	910.6	917.7	916.4	917.6	917.3	918.9	913.8	901.6	884.3
13°	878.7	896.3	913.4	920.2	918.6	919.9	920.3	920.8	914.5	902.1	884.2
13.5°	878.9	897.0	915.9	922.6	921.3	922.6	923.7	922.0	915.0	903.1	883.9
14°	879.3	897.5	917.8	924.2	924.0	925.5	926.4	922.7	915.9	904.1	883.2
14.5°	879.4	898.2	919.8	925.1	926.0	927.8	928.7	923.8	917.1	904.8	882.0
15°	879.1	898.7	922.2	925.9	927.6	929.3	931.1	925.5	918.0	905.3	880.6
15.5°	878.3	898.7	924.5	927.6	929.2	930.4	934.4	927.0	918.2	905.4	879.1
16°	877.5	897.9	926.6	929.0	931.2	932.1	938.1	927.9	918.3	905.8	877.8
16.5°	876.6	896.7	928.1	929.6	933.4	934.0	941.3	928.2	918.5	906.1	876.3
17°	875.5	895.2	929.0	929.6	935.0	935.3	943.8	927.8	918.9	906.4	874.1
17.5°	874.4	894.0	929.5	929.3	936.0	935.9	945.3	927.4	919.3	906.0	871.4
18°	872.8	892.7	929.5	928.9	936.7	935.8	946.1	927.1	919.9	904.2	867.6
18.5°	870.0	891.4	929.1	928.4	937.5	935.8	946.6	926.5	920.1	901.2	863.4
19°	866.5	889.6	928.4	928.0	938.3	936.2	947.0	925.9	919.3	896.7	859.4
19.5°	862.5	887.4	927.1	927.5	939.0	936.9	946.4	924.3	917.2	891.8	855.2
20°	858.2	884.4	924.4	926.6	939.8	937.7	944.8	921.6	914.0	886.4	850.8
20.5°	853.5	881.2	920.4	925.1	940.1	937.9	941.5	918.6	910.5	880.4	846.1
21°	848.4	877.7	915.3	922.6	939.4	937.1	937.1	915.0	905.8	873.5	841.2



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CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	831.9	864.9	897.1	912.0	930.0	933.1	922.4	903.9	885.5	850.3	823.8
23°	825.8	859.1	890.1	908.2	925.1	930.5	916.8	899.2	877.1	841.6	816.8
23.5°	819.4	852.4	882.3	903.4	919.2	927.3	910.7	894.0	868.0	832.4	808.9
24°	813.0	844.7	873.7	898.3	912.1	922.8	904.4	887.9	857.9	822.6	799.8
24.5°	806.3	836.0	864.0	892.5	904.0	917.4	897.8	880.8	847.8	812.2	789.9
25°	799.1	826.6	853.8	885.4	895.8	910.5	890.3	872.5	837.2	800.9	778.4
25.5°	791.5	816.6	842.6	877.4	887.2	902.7	882.3	863.2	826.7	789.6	767.1
26°	783.4	806.0	831.0	868.0	878.2	893.7	873.1	852.8	814.9	777.0	755.7
26.5°	774.2	794.9	818.7	857.6	868.6	883.5	863.4	841.3	802.9	764.2	744.3
27°	764.1	782.5	806.2	845.7	859.2	872.3	852.4	828.5	790.6	751.6	732.8
27.5°	752.2	769.6	793.8	832.3	849.7	860.7	841.0	815.4	776.0	739.0	719.3
28°	739.3	756.0	781.4	817.5	839.8	847.3	828.2	801.6	761.4	726.3	705.9
28.5°	725.1	742.0	769.2	801.9	829.6	833.4	814.7	788.5	746.8	712.8	692.3
29°	709.8	728.2	756.3	786.3	818.8	819.0	801.4	773.6	732.2	699.0	678.2
29.5°	693.4	714.0	743.0	770.7	806.8	804.0	788.1	758.6	717.5	685.0	663.9
30°	676.4	699.9	729.1	754.8	793.2	787.9	773.0	743.6	701.5	670.0	649.1
30.5°	657.8	686.0	713.8	739.3	776.2	771.8	757.9	728.7	685.8	655.0	633.7
31°	638.8	672.4	697.4	723.6	759.1	755.7	742.9	711.6	670.7	639.3	616.4
31.5°	619.3	658.1	680.8	708.2	742.1	739.6	727.8	694.3	655.1	623.5	598.3
32°	600.6	642.0	664.3	693.3	725.1	723.3	709.0	676.4	639.8	607.6	579.8
32.5°	581.6	625.1	648.2	677.6	706.6	707.9	689.6	659.0	624.8	591.9	561.8
33°	563.3	607.3	632.8	661.4	687.1	691.3	669.6	641.7	609.7	575.7	542.9
33.5°	545.0	588.3	617.6	645.0	668.0	674.7	649.9	623.6	593.6	559.0	524.8
34°	527.2	568.5	602.7	628.4	648.9	655.9	631.3	605.3	577.4	541.6	506.4
34.5°	509.2	549.7	586.8	610.9	630.3	636.0	612.7	587.4	560.5	522.9	488.7
35°	491.1	531.1	569.8	593.3	612.2	615.1	594.1	570.2	542.7	504.1	470.5
35.5°	473.8	512.9	552.0	575.7	594.0	594.5	574.6	552.5	524.0	485.4	453.1
36°	455.0	495.1	532.9	557.9	575.6	573.4	555.5	535.2	505.6	466.9	435.1
36.5°	436.1	477.1	512.8	539.7	556.8	552.9	535.7	517.4	487.5	449.7	417.3
37°	417.9	458.6	493.7	521.2	538.3	532.7	517.0	500.0	470.0	432.6	399.4
37.5°	400.2	441.0	475.6	503.8	520.1	514.3	499.1	483.1	453.0	415.4	381.7
38°	383.1	423.5	457.9	486.1	502.3	497.3	482.6	466.9	435.2	397.9	364.6
38.5°	367.3	405.8	441.0	468.9	484.9	481.1	466.8	449.5	416.9	380.5	347.8
39°	350.2	387.7	423.5	451.4	468.4	465.6	451.5	431.9	398.4	363.2	331.5
39.5°	333.0	370.0	405.7	432.4	452.0	450.1	435.9	413.1	379.7	345.0	314.9
40°	315.6	352.5	387.2	411.9	435.1	435.0	420.1	395.0	361.4	326.7	298.0
40.5°	298.4	335.2	369.1	392.1	417.8	418.8	403.6	376.7	342.5	308.1	280.7
41°	281.1	317.8	350.1	373.6	399.9	402.5	387.0	359.4	324.9	289.7	263.4
41.5°	264.6	300.3	331.1	356.0	382.0	386.4	370.3	342.1	307.6	271.9	246.0
42°	248.5	283.0	312.0	338.6	363.8	369.8	353.1	325.4	290.2	254.0	228.6
42.5°	232.7	265.3	293.1	321.1	345.9	353.1	335.8	308.3	273.1	237.0	211.6
43°	216.2	247.6	274.1	303.8	328.7	335.5	318.1	291.2	255.7	220.5	195.0
43.5°	199.9	229.4	256.6	286.2	311.1	317.7	300.2	274.0	238.6	204.4	178.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	153.2	178.3	206.4	235.6	260.8	263.6	248.4	224.6	191.0	158.3	133.9
45.5°	138.5	162.9	191.4	219.4	243.8	245.7	231.2	208.8	176.0	144.2	120.8
46°	124.5	148.5	176.3	203.5	226.7	228.1	214.3	193.1	162.1	131.0	108.5
46.5°	111.0	134.5	161.7	187.5	210.3	210.9	197.9	177.4	148.0	118.2	98.6
47°	98.3	121.4	147.6	172.2	194.2	193.7	181.7	162.2	134.9	106.9	88.7
47.5°	86.6	109.1	134.0	157.1	178.6	177.5	165.6	147.4	121.9	97.2	78.8
48°	76.1	97.9	120.8	143.0	163.2	162.1	150.7	133.4	109.8	87.4	68.9
48.5°	67.1	87.4	108.4	129.8	147.7	147.1	136.1	120.0	98.9	77.7	61.2
49°	59.4	77.7	97.1	117.0	132.9	132.6	122.2	108.5	88.2	68.0	54.3
49.5°	52.6	68.9	86.4	104.5	118.7	119.0	110.6	97.1	77.4	59.9	48.0
50°	46.7	60.8	76.4	92.1	107.1	107.5	98.8	85.7	66.7	52.6	42.2
50.5°	41.1	53.2	67.2	80.6	95.5	96.1	87.2	74.3	57.9	45.7	36.4
51°	35.8	46.2	58.6	69.9	84.0	84.6	75.6	62.8	50.1	39.3	31.0
51.5°	31.1	40.2	50.8	60.3	72.3	73.1	63.9	54.3	43.0	33.2	26.2
52°	26.4	34.3	43.6	51.8	60.9	61.6	54.9	46.3	36.4	27.5	21.4
52.5°	21.7	29.4	36.9	44.0	52.2	52.3	46.6	39.3	30.2	22.5	17.3
53°	17.0	24.5	31.6	37.0	44.3	44.3	39.3	32.7	24.7	18.3	13.4
53.5°	12.3	19.5	26.4	31.6	37.2	37.0	32.5	26.8	20.1	14.1	9.3
54°	7.2	14.6	21.2	26.3	30.6	30.3	26.6	21.8	15.6	9.9	5.3
54.5°	3.7	9.4	16.0	20.9	24.7	24.7	21.5	17.7	11.0	5.7	1.4
55°	3.0	5.0	10.8	15.6	20.7	20.1	17.4	13.6	6.5	1.6	1.0
55.5°	2.2	4.2	5.9	10.2	16.8	15.6	13.4	9.5	2.1	1.1	0.8
56°	1.5	3.3	2.7	5.3	12.9	11.1	9.4	5.4	1.2	0.9	0.7
56.5°	0.9	2.4	2.0	2.2	9.0	6.5	5.3	1.3	1.0	0.8	0.6
57°	0.8	1.6	1.6	1.7	5.0	2.0	1.3	1.0	0.8	0.7	0.5
57.5°	0.7	0.8	1.2	1.4	1.1	1.1	1.0	0.9	0.7	0.6	0.5
58°	0.6	0.7	0.7	1.0	0.9	0.9	0.8	0.8	0.6	0.5	0.4
58.5°	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4
59°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4
59.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3
60°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3
60.5°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.3
61°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
61.5°	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
64°	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1



TEST NUMBER: P775891

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
68°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
75.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	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	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: P775891
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-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: P775891

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	883.0	883.0	883.0	883.0	883.0	883.0
0.5°	882.8	883.4	882.8	882.5	882.7	883.2
1°	882.8	883.3	883.0	882.6	883.0	883.2
1.5°	882.7	883.3	883.1	882.8	883.0	883.2
2°	882.5	883.2	883.2	883.1	883.1	883.0
2.5°	882.1	883.0	883.4	883.4	883.2	883.0
3°	881.8	882.8	883.6	883.9	883.4	882.7
3.5°	881.4	882.7	883.9	884.0	883.4	882.5
4°	880.9	882.6	884.0	884.4	883.4	882.2
4.5°	880.4	882.2	884.2	884.5	883.3	882.1
5°	880.0	882.0	884.2	884.5	883.2	881.9
5.5°	879.7	881.7	884.0	884.5	882.8	881.7
6°	879.3	881.4	883.9	884.3	882.7	881.4
6.5°	878.6	881.0	883.9	884.3	882.5	880.9
7°	878.1	880.8	884.0	884.4	882.3	880.5
7.5°	877.4	880.5	884.4	884.8	882.2	880.2
8°	876.7	880.4	884.4	885.0	882.3	880.1
8.5°	875.8	880.1	884.3	885.0	882.2	879.9
9°	874.8	879.8	884.4	885.0	881.8	879.7
9.5°	874.0	880.1	885.2	885.2	881.5	879.2
10°	873.7	880.7	886.4	886.3	881.5	878.6
10.5°	873.9	881.2	887.4	887.5	882.0	878.2
11°	873.7	880.9	888.1	888.3	882.7	878.2
11.5°	873.1	880.3	888.4	888.8	882.8	878.6
12°	872.3	879.6	888.9	889.0	882.4	878.8
12.5°	872.2	879.3	890.1	890.2	882.0	878.8
13°	872.2	879.1	891.8	891.8	881.8	878.7
13.5°	872.0	878.6	893.2	892.9	881.8	878.9
14°	871.4	877.4	893.7	893.6	881.2	879.3
14.5°	870.2	875.4	894.0	893.8	879.9	879.4
15°	869.2	873.5	894.1	894.0	878.3	879.1
15.5°	868.0	871.6	894.1	894.1	876.9	878.3
16°	866.8	869.4	893.6	894.0	875.2	877.5
16.5°	865.5	866.8	892.0	893.1	873.6	876.6
17°	863.2	863.1	888.9	890.8	871.4	875.5
17.5°	859.8	858.7	884.4	887.4	868.3	874.4
18°	855.6	854.0	878.8	882.8	864.7	872.8
18.5°	850.8	849.6	872.6	877.6	860.6	870.0
19°	845.9	845.0	865.5	871.6	856.6	866.5
19.5°	840.7	840.3	857.7	864.8	852.6	862.5
20°	834.9	835.3	849.0	857.0	848.5	858.2
20.5°	829.1	830.4	839.5	848.5	844.2	853.5
21°	822.7	824.7	829.1	838.8	839.8	848.4



TEST NUMBER: P775891

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	803.2	803.9	795.9	806.9	824.3	831.9
23°	796.2	794.6	783.6	795.1	817.8	825.8
23.5°	788.9	784.2	771.5	782.8	810.5	819.4
24°	781.4	772.6	758.8	770.4	801.6	813.0
24.5°	774.0	760.4	745.9	757.5	791.4	806.3
25°	764.6	747.0	732.4	744.6	779.8	799.1
25.5°	755.1	733.3	719.8	731.5	767.4	791.5
26°	745.7	719.6	707.0	717.9	754.3	783.4
26.5°	736.1	705.6	692.9	704.5	740.7	774.2
27°	722.7	691.2	679.2	690.7	726.6	764.1
27.5°	708.2	677.0	665.5	676.5	712.4	752.2
28°	691.6	663.1	651.3	662.0	698.1	739.3
28.5°	675.1	649.1	636.6	648.1	683.9	725.1
29°	658.3	634.5	621.5	633.9	669.3	709.8
29.5°	641.5	619.9	606.5	619.2	653.7	693.4
30°	623.9	603.5	592.1	604.6	637.9	676.4
30.5°	605.8	586.5	577.5	589.4	621.2	657.8
31°	587.7	569.2	562.8	574.9	604.1	638.8
31.5°	569.4	551.9	548.1	560.3	586.0	619.3
32°	551.3	533.3	532.9	545.2	568.0	600.6
32.5°	533.0	515.7	517.7	529.1	549.6	581.6
33°	514.7	498.3	501.3	512.3	531.3	563.3
33.5°	497.4	481.3	483.1	494.9	512.8	545.0
34°	479.8	463.9	464.0	476.8	496.3	527.2
34.5°	462.1	446.2	444.3	458.0	478.8	509.2
35°	443.6	427.0	426.1	439.0	461.2	491.1
35.5°	425.1	408.1	407.6	420.3	442.7	473.8
36°	407.1	389.5	390.1	402.0	424.5	455.0
36.5°	389.5	370.5	371.8	384.2	404.7	436.1
37°	372.8	353.6	353.9	366.8	386.6	417.9
37.5°	356.7	336.6	336.0	349.0	369.0	400.2
38°	340.0	319.6	318.1	331.1	352.1	383.1
38.5°	322.6	302.7	300.2	313.3	335.2	367.3
39°	304.4	285.7	282.3	295.4	318.3	350.2
39.5°	287.3	268.6	265.2	277.6	301.3	333.0
40°	270.3	251.5	248.2	260.9	284.4	315.6
40.5°	254.6	235.6	231.2	244.3	267.3	298.4
41°	238.8	220.1	215.6	227.9	251.3	281.1
41.5°	223.4	204.6	199.4	211.8	234.9	264.6
42°	207.3	189.7	185.0	196.3	219.3	248.5
42.5°	191.6	175.1	170.8	181.3	203.8	232.7
43°	176.1	160.7	157.4	167.1	189.0	216.2
43.5°	161.2	146.4	144.6	153.6	174.0	199.9



TEST NUMBER: P775891

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	119.8	108.7	110.3	117.1	131.0	153.2
45.5°	108.5	97.6	100.2	106.5	118.1	138.5
46°	97.4	87.2	90.7	96.4	105.9	124.5
46.5°	86.3	77.7	81.5	86.9	94.2	111.0
47°	75.2	69.2	73.2	78.1	83.5	98.3
47.5°	64.1	61.3	65.3	69.6	74.0	86.6
48°	57.1	54.3	57.9	61.8	65.4	76.1
48.5°	51.1	48.0	51.0	54.6	57.8	67.1
49°	45.7	42.4	44.4	47.8	51.2	59.4
49.5°	40.5	37.0	38.3	41.6	45.1	52.6
50°	35.6	32.0	33.2	35.5	39.6	46.7
50.5°	30.6	27.1	28.1	30.5	34.4	41.1
51°	25.8	22.1	22.8	25.5	29.8	35.8
51.5°	21.4	17.2	17.7	20.5	25.1	31.1
52°	17.3	12.2	12.6	15.6	20.5	26.4
52.5°	13.4	7.0	7.5	10.6	15.8	21.7
53°	9.4	3.4	3.7	5.8	10.5	17.0
53.5°	5.3	2.7	3.0	2.6	5.9	12.3
54°	1.4	1.9	2.1	2.1	2.8	7.2
54.5°	1.0	1.3	1.4	1.6	2.2	3.7
55°	0.8	0.7	0.7	1.2	1.7	3.0
55.5°	0.7	0.6	0.6	0.7	1.3	2.2
56°	0.6	0.5	0.6	0.7	0.8	1.5
56.5°	0.5	0.5	0.5	0.6	0.7	0.9
57°	0.5	0.4	0.5	0.5	0.6	0.8
57.5°	0.4	0.4	0.4	0.5	0.6	0.7
58°	0.4	0.4	0.4	0.5	0.5	0.6
58.5°	0.4	0.3	0.4	0.4	0.5	0.6
59°	0.3	0.3	0.3	0.4	0.5	0.5
59.5°	0.3	0.3	0.3	0.4	0.4	0.5
60°	0.3	0.3	0.3	0.3	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.4	0.4
61°	0.3	0.2	0.3	0.3	0.3	0.4
61.5°	0.2	0.2	0.2	0.3	0.3	0.3
62°	0.2	0.2	0.2	0.3	0.3	0.3
62.5°	0.2	0.2	0.2	0.2	0.3	0.3
63°	0.2	0.2	0.2	0.2	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.3
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.1	0.2	0.2	0.2	0.2
65.5°	0.1	0.1	0.1	0.2	0.2	0.2
66°	0.1	0.1	0.1	0.2	0.2	0.2



TEST NUMBER: P775891

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.1	0.1	0.1	0.1	0.1	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.2
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.0	0.0	0.1	0.1	0.1	0.1
74°	0.0	0.0	0.0	0.1	0.1	0.1
74.5°	0.0	0.0	0.0	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.0	0.1	0.1
75.5°	0.0	0.0	0.0	0.0	0.0	0.1
76°	0.0	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: P775891

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	843.1	874.1	909.6	919.0	937.3	935.9	932.5	911.8	900.2	866.2	835.9
22°	837.7	869.9	903.6	915.5	934.0	934.6	927.6	908.1	893.3	858.5	830.2



44°	183.9	211.8	239.2	268.7	294.4	299.8	282.7	257.2	222.3	188.5	163.1
44.5°	168.4	194.5	222.6	251.8	277.8	281.7	265.2	240.3	206.4	172.9	148.1



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



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	816.5	818.5	818.7	828.5	835.0	843.1
22°	809.7	811.7	807.3	817.9	829.9	837.7



44°	147.1	133.0	132.5	140.9	158.9	183.9
44.5°	133.3	120.7	121.1	128.6	144.8	168.4



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

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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)