

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: P775894

Luminaire Tested: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775894
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-5000K
Description: 8 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

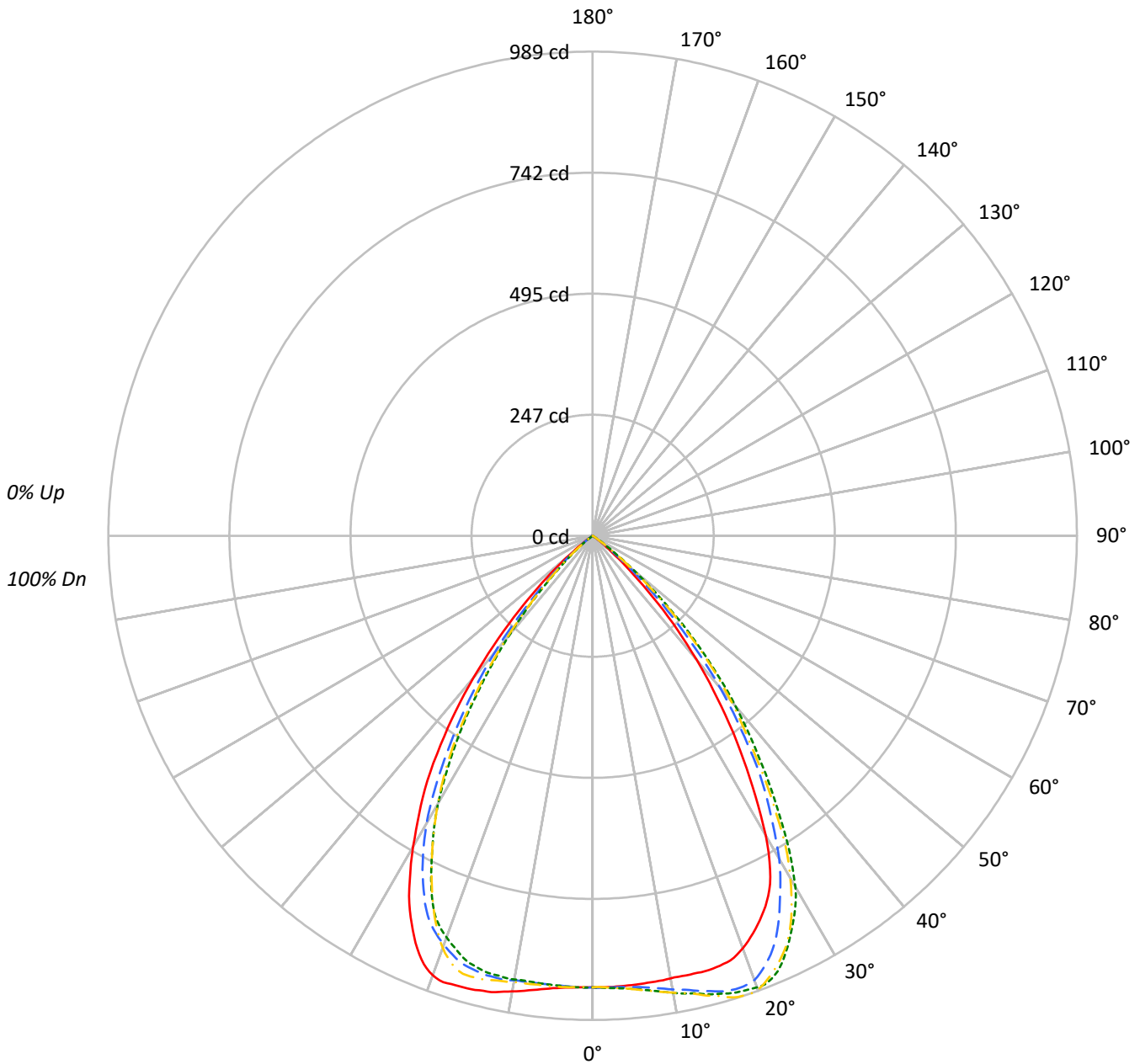
Lumens per Lamp: N/A
Luminaire Lumens: 1240.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.07
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P775894
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

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°	22120	22120	22120	22120
5°	22176	22368	22330	22178
10°	22349	23087	23014	22403
15°	22799	24055	23806	22655
20°	22879	25053	24366	22269
25°	22089	24761	23140	20647
30°	19567	22945	20292	17457
35°	15017	18720	16597	13058
40°	10320	14227	11819	8223
45°	5429	9241	6765	3852
50°	1820	4174	2600	1250
55°	130	903	284	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: 9339 cd/sqm



TEST NUMBER: P775894

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	7.1
10°-20°	266.3	21.5
20°-30°	388.4	31.3
30°-40°	334.6	27.0
40°-50°	147.1	11.9
50°-60°	14.6	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°	743.3	59.9
0°-40°	1077.9	86.9
0°-60°	1239.7	100.0
0°-90°	1240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	922	922	922	922	922	
5°	921	929	928	921	921	88
15°	918	969	959	913	918	259
25°	835	936	875	780	835	379
35°	513	640	567	446	513	318
45°	160	272	200	114	160	128
55°	3	22	7	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°	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5
0.5°	922.7	923.1	923.3	922.6	922.9	922.4	921.9	922.2	922.5	922.8	922.8
1°	922.7	923.2	923.4	923.1	923.2	922.7	922.0	922.3	922.6	922.8	922.8
1.5°	922.7	923.1	923.3	923.4	923.9	923.2	922.4	922.6	922.6	922.7	922.6
2°	922.5	922.8	923.2	923.7	924.5	924.0	923.2	923.1	922.9	922.7	922.5
2.5°	922.5	922.8	923.3	923.7	925.0	925.0	924.0	923.7	923.5	922.8	922.2
3°	922.2	922.7	923.4	924.1	925.5	925.3	925.0	924.9	924.0	922.9	921.9
3.5°	921.9	922.5	923.7	924.7	926.0	926.1	925.9	925.8	924.6	923.2	921.7
4°	921.6	922.2	924.1	925.5	926.9	927.2	926.9	927.1	925.6	923.4	921.5
4.5°	921.5	922.2	924.6	926.4	928.0	928.4	928.2	928.1	926.6	923.9	921.1
5°	921.3	922.2	925.2	927.7	929.3	929.6	929.7	929.7	927.7	924.3	921.1
5.5°	921.1	922.6	926.1	929.2	930.6	931.0	931.1	931.5	929.1	924.8	921.0
6°	920.8	922.8	927.1	930.6	932.1	932.5	932.8	933.2	930.5	925.6	921.0
6.5°	920.3	923.1	928.3	932.3	933.8	934.0	934.6	935.0	932.2	926.6	921.1
7°	919.9	923.4	929.7	934.2	935.6	935.6	936.3	937.1	934.0	927.6	921.1
7.5°	919.6	923.9	931.3	936.4	937.4	937.4	937.9	938.9	935.8	928.8	921.1
8°	919.5	924.5	932.9	938.7	939.3	939.3	940.1	941.2	937.8	929.8	921.2
8.5°	919.3	925.6	934.7	941.0	941.3	941.5	942.1	943.4	939.8	930.9	921.4
9°	919.1	926.7	936.9	943.7	943.7	943.7	944.0	945.7	941.8	932.1	921.5
9.5°	918.5	927.7	939.2	946.1	945.7	945.9	945.9	947.8	943.6	933.1	921.5
10°	917.9	928.7	941.1	948.8	948.2	948.4	948.0	949.6	945.2	934.2	922.0
10.5°	917.5	929.4	942.8	951.1	950.5	950.7	950.1	951.4	946.8	935.7	923.3
11°	917.5	930.4	944.4	952.9	952.7	952.8	951.9	952.9	948.5	937.8	924.4
11.5°	917.9	931.7	946.1	954.7	954.4	954.7	953.6	954.8	951.0	939.7	924.7
12°	918.1	933.6	948.5	956.6	955.7	956.6	955.7	957.4	953.1	941.5	924.4
12.5°	918.1	935.4	951.4	958.7	957.4	958.6	958.3	960.0	954.7	941.9	923.9
13°	918.0	936.4	954.2	961.4	959.7	961.0	961.5	962.0	955.4	942.4	923.7
13.5°	918.2	937.1	956.9	963.8	962.5	963.8	965.0	963.2	955.9	943.5	923.4
14°	918.6	937.6	958.8	965.5	965.3	966.9	967.9	963.9	956.9	944.5	922.7
14.5°	918.7	938.3	960.9	966.5	967.4	969.3	970.2	965.1	958.1	945.3	921.4
15°	918.4	938.9	963.4	967.3	969.0	970.9	972.8	966.9	959.0	945.8	920.0
15.5°	917.6	938.9	965.8	969.0	970.7	972.0	976.2	968.4	959.2	945.9	918.4
16°	916.7	938.0	968.1	970.5	972.9	973.7	980.0	969.4	959.3	946.3	917.0
16.5°	915.8	936.8	969.6	971.2	975.1	975.8	983.4	969.7	959.6	946.7	915.4
17°	914.7	935.3	970.5	971.2	976.8	977.1	986.0	969.3	960.0	947.0	913.2
17.5°	913.5	934.0	971.1	970.9	977.9	977.8	987.6	968.8	960.4	946.6	910.3
18°	911.8	932.6	971.1	970.4	978.6	977.7	988.4	968.5	961.0	944.6	906.4
18.5°	908.9	931.2	970.6	969.9	979.4	977.7	989.0	968.0	961.3	941.5	902.0
19°	905.2	929.4	969.9	969.5	980.2	978.1	989.4	967.3	960.4	936.8	897.9
19.5°	901.0	927.1	968.5	968.9	981.0	978.8	988.8	965.6	958.2	931.6	893.5
20°	896.6	924.0	965.7	968.1	981.8	979.6	987.1	962.9	954.9	926.0	888.8
20.5°	891.7	920.6	961.6	966.5	982.1	979.8	983.6	959.7	951.2	919.8	883.9
21°	886.3	916.9	956.3	963.8	981.4	979.0	979.0	955.9	946.3	912.6	878.8

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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°	869.1	903.6	937.2	952.7	971.6	974.8	963.6	944.3	925.1	888.4	860.7
23°	862.7	897.5	929.9	948.8	966.5	972.1	957.7	939.4	916.3	879.2	853.3
23.5°	856.1	890.5	921.7	943.8	960.3	968.7	951.5	934.0	906.8	869.6	845.1
24°	849.4	882.5	912.8	938.5	952.8	964.0	944.8	927.6	896.3	859.4	835.6
24.5°	842.3	873.3	902.6	932.4	944.4	958.4	937.9	920.2	885.7	848.5	825.2
25°	834.9	863.5	892.0	925.0	935.9	951.2	930.1	911.5	874.6	836.7	813.2
25.5°	826.9	853.1	880.3	916.6	926.8	943.0	921.7	901.8	863.6	825.0	801.4
26°	818.5	842.0	868.1	906.8	917.5	933.7	912.1	890.9	851.4	811.7	789.5
26.5°	808.9	830.4	855.3	895.9	907.4	923.0	902.0	878.9	838.8	798.4	777.5
27°	798.3	817.5	842.2	883.5	897.6	911.3	890.5	865.6	825.9	785.2	765.6
27.5°	785.8	804.0	829.3	869.5	887.7	899.2	878.6	851.8	810.7	772.0	751.4
28°	772.3	789.8	816.3	854.1	877.4	885.2	865.2	837.4	795.4	758.8	737.5
28.5°	757.5	775.2	803.6	837.7	866.7	870.7	851.2	823.8	780.2	744.7	723.3
29°	741.5	760.8	790.1	821.4	855.4	855.7	837.2	808.2	765.0	730.2	708.5
29.5°	724.4	745.9	776.3	805.1	842.9	840.0	823.4	792.6	749.6	715.6	693.6
30°	706.7	731.2	761.7	788.5	828.7	823.1	807.6	776.9	732.9	700.0	678.1
30.5°	687.2	716.7	745.7	772.3	810.9	806.3	791.8	761.3	716.5	684.3	662.0
31°	667.3	702.5	728.6	756.0	793.1	789.5	776.1	743.4	700.7	667.9	644.0
31.5°	647.0	687.5	711.2	739.9	775.3	772.6	760.4	725.3	684.4	651.4	625.0
32°	627.5	670.8	694.0	724.2	757.5	755.7	740.7	706.7	668.4	634.7	605.7
32.5°	607.6	653.1	677.1	707.9	738.2	739.6	720.4	688.4	652.7	618.3	586.9
33°	588.5	634.4	661.1	691.0	717.9	722.2	699.5	670.4	637.0	601.5	567.2
33.5°	569.4	614.6	645.2	673.8	697.8	704.9	679.0	651.5	620.1	584.0	548.3
34°	550.8	593.9	629.6	656.5	677.9	685.2	659.6	632.4	603.2	565.8	529.0
34.5°	532.0	574.3	613.0	638.2	658.5	664.5	640.1	613.6	585.6	546.3	510.6
35°	513.0	554.8	595.3	619.8	639.5	642.6	620.7	595.7	567.0	526.7	491.5
35.5°	495.0	535.8	576.7	601.5	620.6	621.1	600.3	577.2	547.5	507.1	473.4
36°	475.3	517.3	556.7	582.8	601.4	599.0	580.4	559.2	528.2	487.8	454.5
36.5°	455.6	498.4	535.7	563.9	581.7	577.6	559.7	540.5	509.3	469.8	436.0
37°	436.6	479.1	515.8	544.5	562.4	556.5	540.1	522.4	491.0	452.0	417.2
37.5°	418.1	460.7	496.8	526.3	543.4	537.3	521.4	504.7	473.3	434.0	398.8
38°	400.3	442.5	478.4	507.8	524.8	519.5	504.2	487.8	454.6	415.7	380.9
38.5°	383.8	423.9	460.7	489.9	506.6	502.6	487.7	469.5	435.6	397.5	363.4
39°	365.9	405.1	442.5	471.6	489.4	486.4	471.7	451.2	416.3	379.4	346.4
39.5°	347.8	386.5	423.8	451.8	472.2	470.2	455.4	431.6	396.7	360.4	329.0
40°	329.7	368.3	404.5	430.3	454.5	454.4	438.9	412.6	377.6	341.3	311.3
40.5°	311.7	350.2	385.6	409.7	436.5	437.6	421.7	393.6	357.9	321.8	293.3
41°	293.7	332.0	365.7	390.3	417.8	420.5	404.3	375.4	339.4	302.7	275.2
41.5°	276.4	313.7	345.9	371.9	399.1	403.7	386.8	357.4	321.3	284.0	257.0
42°	259.6	295.6	326.0	353.7	380.0	386.3	368.8	340.0	303.2	265.4	238.8
42.5°	243.1	277.2	306.2	335.5	361.4	368.8	350.8	322.1	285.3	247.6	221.0
43°	225.8	258.6	286.4	317.4	343.4	350.5	332.3	304.3	267.2	230.4	203.8
43.5°	208.9	239.7	268.0	299.0	325.0	331.9	313.6	286.2	249.3	213.6	186.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	160.1	186.3	215.6	246.2	272.5	275.4	259.5	234.7	199.5	165.4	139.9
45.5°	144.7	170.2	199.9	229.2	254.7	256.7	241.5	218.1	183.8	150.7	126.2
46°	130.0	155.2	184.2	212.6	236.8	238.3	223.9	201.7	169.3	136.8	113.4
46.5°	115.9	140.6	168.9	195.9	219.7	220.3	206.7	185.3	154.6	123.5	103.1
47°	102.7	126.8	154.2	179.9	202.9	202.4	189.8	169.4	140.9	111.7	92.7
47.5°	90.5	114.0	140.0	164.1	186.6	185.4	173.0	154.0	127.4	101.6	82.3
48°	79.5	102.3	126.2	149.4	170.5	169.3	157.4	139.4	114.7	91.3	71.9
48.5°	70.1	91.3	113.3	135.6	154.3	153.7	142.2	125.3	103.4	81.2	63.9
49°	62.0	81.2	101.5	122.2	138.9	138.5	127.7	113.4	92.2	71.1	56.7
49.5°	55.0	71.9	90.3	109.1	124.0	124.4	115.5	101.5	80.9	62.6	50.2
50°	48.8	63.5	79.8	96.2	111.9	112.3	103.3	89.5	69.7	55.0	44.1
50.5°	42.9	55.6	70.2	84.2	99.7	100.4	91.1	77.6	60.5	47.7	38.0
51°	37.4	48.3	61.2	73.0	87.7	88.3	79.0	65.6	52.3	41.0	32.4
51.5°	32.5	42.0	53.1	63.0	75.6	76.4	66.7	56.7	45.0	34.6	27.4
52°	27.6	35.8	45.5	54.1	63.6	64.4	57.3	48.4	38.0	28.8	22.4
52.5°	22.7	30.7	38.6	45.9	54.6	54.7	48.7	41.0	31.5	23.6	18.1
53°	17.8	25.6	33.0	38.7	46.3	46.3	41.0	34.2	25.8	19.1	14.0
53.5°	12.9	20.4	27.6	33.0	38.9	38.7	34.0	28.0	21.0	14.7	9.7
54°	7.6	15.2	22.2	27.5	32.0	31.7	27.8	22.8	16.3	10.3	5.5
54.5°	3.8	9.8	16.7	21.8	25.8	25.8	22.5	18.5	11.5	6.0	1.5
55°	3.1	5.2	11.3	16.3	21.6	21.0	18.2	14.2	6.8	1.7	1.1
55.5°	2.3	4.4	6.2	10.7	17.6	16.3	14.0	9.9	2.2	1.2	0.9
56°	1.6	3.4	2.8	5.5	13.4	11.6	9.8	5.6	1.3	1.0	0.7
56.5°	1.0	2.6	2.1	2.3	9.4	6.8	5.5	1.4	1.1	0.9	0.6
57°	0.9	1.7	1.7	1.8	5.2	2.1	1.4	1.1	0.9	0.7	0.5
57.5°	0.7	0.9	1.3	1.5	1.2	1.2	1.1	1.0	0.7	0.6	0.5
58°	0.6	0.7	0.7	1.1	1.0	1.0	0.9	0.9	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: P775894

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

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: P775894
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

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: P775894

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	922.5	922.5	922.5	922.5	922.5	922.5
0.5°	922.3	922.9	922.3	921.9	922.2	922.7
1°	922.3	922.8	922.5	922.0	922.5	922.7
1.5°	922.2	922.8	922.6	922.3	922.5	922.7
2°	921.9	922.7	922.7	922.6	922.6	922.5
2.5°	921.5	922.5	922.9	922.9	922.7	922.5
3°	921.2	922.3	923.1	923.4	922.9	922.2
3.5°	920.8	922.2	923.4	923.5	922.9	921.9
4°	920.3	922.0	923.5	924.0	922.9	921.6
4.5°	919.8	921.6	923.7	924.1	922.8	921.5
5°	919.4	921.4	923.7	924.1	922.7	921.3
5.5°	919.1	921.1	923.5	924.1	922.3	921.1
6°	918.6	920.8	923.4	923.9	922.2	920.8
6.5°	917.9	920.4	923.4	923.9	921.9	920.3
7°	917.4	920.2	923.5	924.0	921.7	919.9
7.5°	916.6	919.9	924.0	924.4	921.6	919.6
8°	915.9	919.8	924.0	924.6	921.7	919.5
8.5°	915.0	919.5	923.9	924.6	921.6	919.3
9°	913.9	919.2	924.0	924.6	921.2	919.1
9.5°	913.1	919.5	924.8	924.8	920.9	918.5
10°	912.8	920.1	926.0	925.9	920.9	917.9
10.5°	913.0	920.6	927.1	927.2	921.4	917.5
11°	912.8	920.3	927.8	928.0	922.2	917.5
11.5°	912.1	919.7	928.1	928.5	922.3	917.9
12°	911.3	919.0	928.7	928.8	921.8	918.1
12.5°	911.2	918.6	929.9	930.0	921.4	918.1
13°	911.2	918.4	931.6	931.6	921.2	918.0
13.5°	911.0	917.9	933.1	932.8	921.2	918.2
14°	910.3	916.6	933.7	933.6	920.6	918.6
14.5°	909.1	914.6	934.0	933.8	919.3	918.7
15°	908.1	912.6	934.1	934.0	917.6	918.4
15.5°	906.8	910.5	934.1	934.1	916.1	917.6
16°	905.5	908.3	933.6	934.0	914.4	916.7
16.5°	904.2	905.5	931.8	933.0	912.7	915.8
17°	901.8	901.7	928.7	930.7	910.3	914.7
17.5°	898.3	897.1	924.0	927.1	907.1	913.5
18°	893.9	892.2	918.1	922.3	903.4	911.8
18.5°	888.8	887.6	911.6	916.8	899.1	908.9
19°	883.7	882.8	904.2	910.5	894.9	905.2
19.5°	878.2	877.9	896.0	903.5	890.7	901.0
20°	872.3	872.7	887.0	895.3	886.4	896.6
20.5°	866.2	867.5	877.1	886.4	882.0	891.7
21°	859.5	861.6	866.2	876.3	877.4	886.3

TEST NUMBER: P775894

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	839.1	839.9	831.5	843.0	861.2	869.1
23°	831.8	830.2	818.7	830.6	854.4	862.7
23.5°	824.2	819.3	806.0	817.8	846.7	856.1
24°	816.3	807.2	792.8	804.8	837.4	849.4
24.5°	808.7	794.4	779.2	791.4	826.8	842.3
25°	798.7	780.4	765.2	777.9	814.6	834.9
25.5°	788.8	766.1	752.0	764.2	801.7	826.9
26°	779.0	751.7	738.6	750.0	788.0	818.5
26.5°	769.0	737.1	723.9	736.0	773.8	808.9
27°	755.0	722.1	709.5	721.6	759.1	798.3
27.5°	739.9	707.3	695.3	706.8	744.3	785.8
28°	722.5	692.7	680.4	691.6	729.4	772.3
28.5°	705.3	678.1	665.1	677.0	714.4	757.5
29°	687.7	662.9	649.3	662.2	699.2	741.5
29.5°	670.2	647.6	633.7	646.9	682.9	724.4
30°	651.8	630.5	618.5	631.6	666.4	706.7
30.5°	632.9	612.8	603.3	615.8	649.0	687.2
31°	613.9	594.7	587.9	600.6	631.1	667.3
31.5°	594.9	576.5	572.6	585.4	612.2	647.0
32°	575.9	557.1	556.7	569.6	593.4	627.5
32.5°	556.8	538.7	540.8	552.8	574.2	607.6
33°	537.8	520.6	523.7	535.2	555.0	588.5
33.5°	519.6	502.8	504.7	517.1	535.7	569.4
34°	501.3	484.7	484.8	498.1	518.5	550.8
34.5°	482.8	466.1	464.2	478.5	500.2	532.0
35°	463.5	446.1	445.1	458.7	481.8	513.0
35.5°	444.1	426.4	425.9	439.1	462.5	495.0
36°	425.3	406.9	407.5	420.0	443.4	475.3
36.5°	406.9	387.1	388.4	401.3	422.8	455.6
37°	389.5	369.4	369.7	383.2	403.9	436.6
37.5°	372.7	351.7	351.0	364.6	385.5	418.1
38°	355.2	333.9	332.3	345.9	367.9	400.3
38.5°	337.0	316.2	313.6	327.3	350.2	383.8
39°	318.0	298.5	294.9	308.6	332.5	365.9
39.5°	300.1	280.6	277.1	290.0	314.8	347.8
40°	282.4	262.7	259.3	272.6	297.1	329.7
40.5°	266.0	246.2	241.5	255.2	279.2	311.7
41°	249.5	230.0	225.3	238.1	262.6	293.7
41.5°	233.4	213.8	208.3	221.2	245.4	276.4
42°	216.6	198.2	193.3	205.0	229.1	259.6
42.5°	200.1	183.0	178.4	189.4	212.9	243.1
43°	183.9	167.8	164.4	174.6	197.5	225.8
43.5°	168.4	152.9	151.1	160.5	181.8	208.9



TEST NUMBER: P775894

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	125.1	113.6	115.2	122.3	136.8	160.1
45.5°	113.4	102.0	104.7	111.3	123.4	144.7
46°	101.8	91.1	94.7	100.7	110.6	130.0
46.5°	90.2	81.2	85.1	90.8	98.4	115.9
47°	78.5	72.3	76.5	81.6	87.3	102.7
47.5°	66.9	64.0	68.2	72.7	77.3	90.5
48°	59.7	56.7	60.5	64.6	68.3	79.5
48.5°	53.4	50.2	53.3	57.0	60.4	70.1
49°	47.7	44.3	46.4	50.0	53.5	62.0
49.5°	42.3	38.7	40.0	43.5	47.1	55.0
50°	37.2	33.5	34.6	37.1	41.3	48.8
50.5°	32.0	28.3	29.3	31.9	35.9	42.9
51°	27.0	23.1	23.9	26.6	31.1	37.4
51.5°	22.4	18.0	18.5	21.4	26.2	32.5
52°	18.1	12.8	13.2	16.3	21.4	27.6
52.5°	14.0	7.4	7.9	11.1	16.5	22.7
53°	9.8	3.5	3.8	6.1	11.0	17.8
53.5°	5.5	2.8	3.1	2.7	6.2	12.9
54°	1.5	2.0	2.2	2.2	2.9	7.6
54.5°	1.1	1.4	1.5	1.7	2.3	3.8
55°	0.9	0.7	0.7	1.3	1.8	3.1
55.5°	0.7	0.6	0.6	0.7	1.4	2.3
56°	0.6	0.5	0.6	0.7	0.9	1.6
56.5°	0.5	0.5	0.5	0.6	0.7	1.0
57°	0.5	0.4	0.5	0.5	0.6	0.9
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: P775894
 CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

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: P775894
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-5000K

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°	880.8	913.2	950.3	960.1	979.2	977.8	974.2	952.5	940.5	904.9	873.2
22°	875.2	908.8	944.0	956.5	975.8	976.4	969.0	948.7	933.2	896.9	867.4



44°	192.1	221.2	249.9	280.7	307.6	313.2	295.3	268.7	232.2	196.9	170.4
44.5°	175.9	203.2	232.5	263.0	290.2	294.3	277.1	251.1	215.6	180.6	154.7



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°	853.0	855.1	855.3	865.6	872.4	880.8
22°	846.0	848.0	843.4	854.5	867.1	875.2



44°	153.7	139.0	138.4	147.2	166.0	192.1
44.5°	139.3	126.1	126.5	134.4	151.2	175.9



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)