

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: P775740

Luminaire Tested: HCDJBL510CSD-HCD62TRC-1000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B055-HCD62TRC)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRC-1000lm-2700K
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

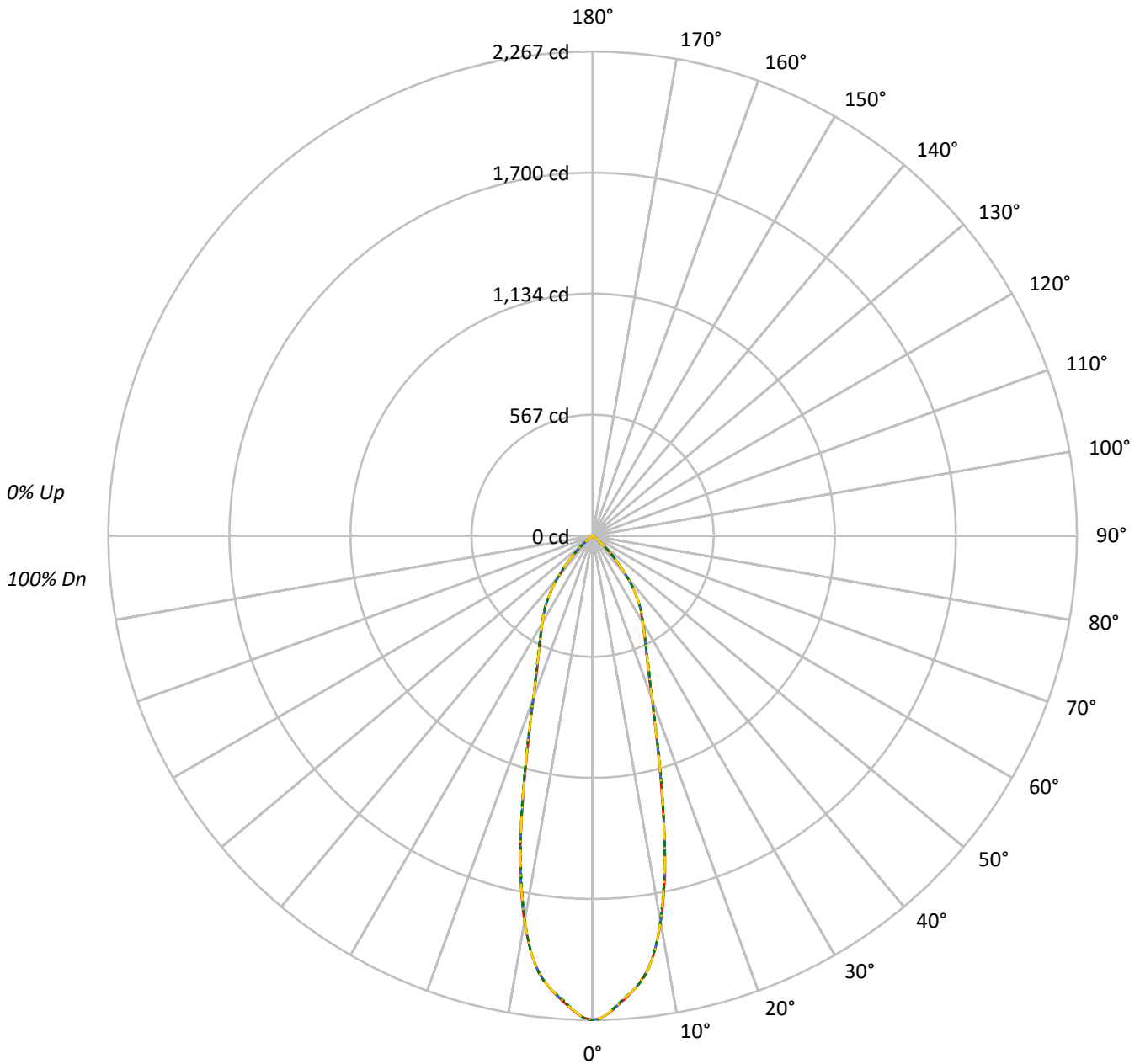
Lumens per Lamp: N/A
Luminaire Lumens: 1160.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57	57	57	57	57	57		
	10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55	55	55	55	55	55		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	124228	124228	124228	124228
5°	117829	117697	117829	117697
10°	102197	101612	102197	101612
15°	71084	71919	71084	71919
20°	47172	47674	47172	47674
25°	35857	36365	35857	36365
30°	29650	30011	29650	30011
35°	24815	24835	24815	24835
40°	17676	17955	17676	17955
45°	9908	10396	9908	10396
50°	3369	4008	3369	4008
55°	239	516	239	516
60°	44	44	44	44
65°	26	26	26	26
70°	16	16	16	16
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: 10396 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	16.8
10°-20°	347.8	30.0
20°-30°	277.7	23.9
30°-40°	227.3	19.6
40°-50°	102.7	8.9
50°-60°	8.8	0.8
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°	820.9	70.8
0°-40°	1048.3	90.4
0°-60°	1159.7	100.0
0°-90°	1160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2266	2266	2266	2266	2266	
5°	2141	2139	2141	2139	2141	195
15°	1252	1267	1252	1267	1252	347
25°	593	601	593	601	593	276
35°	371	371	371	371	371	227
45°	128	134	128	134	128	101
55°	2	5	2	5	2	8
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°	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1
0.5°	2263.4	2263.4	2263.4	2263.8	2267.3	2263.8	2263.4	2263.4	2263.4	2263.4	2263.4
1°	2257.4	2257.4	2257.1	2257.2	2259.6	2257.2	2257.1	2257.4	2257.4	2257.4	2257.1
1.5°	2247.6	2247.5	2246.7	2246.2	2247.7	2246.2	2246.7	2247.5	2247.6	2247.5	2246.7
2°	2235.2	2234.6	2233.5	2232.3	2232.5	2232.3	2233.5	2234.6	2235.2	2234.6	2233.5
2.5°	2220.4	2220.0	2218.4	2216.4	2215.8	2216.4	2218.4	2220.0	2220.4	2220.0	2218.4
3°	2204.8	2204.3	2202.5	2199.8	2198.7	2199.8	2202.5	2204.3	2204.8	2204.3	2202.5
3.5°	2189.2	2188.5	2186.4	2183.7	2182.3	2183.7	2186.4	2188.5	2189.2	2188.5	2186.4
4°	2173.6	2172.5	2170.5	2168.4	2167.0	2168.4	2170.5	2172.5	2173.6	2172.5	2170.5
4.5°	2157.6	2156.6	2155.1	2153.7	2152.6	2153.7	2155.1	2156.6	2157.6	2156.6	2155.1
5°	2141.2	2140.5	2139.6	2139.0	2138.8	2139.0	2139.6	2140.5	2141.2	2140.5	2139.6
5.5°	2123.5	2123.1	2123.1	2123.5	2124.3	2123.5	2123.1	2123.1	2123.5	2123.1	2123.1
6°	2104.3	2104.3	2104.9	2106.5	2107.4	2106.5	2104.9	2104.3	2104.3	2104.3	2104.9
6.5°	2082.8	2083.3	2084.5	2086.3	2087.5	2086.3	2084.5	2083.3	2082.8	2083.3	2084.5
7°	2058.5	2059.5	2060.6	2062.4	2063.8	2062.4	2060.6	2059.5	2058.5	2059.5	2060.6
7.5°	2031.0	2031.4	2032.8	2034.1	2034.9	2034.1	2032.8	2031.4	2031.0	2031.4	2032.8
8°	1999.6	1999.8	2000.6	2001.4	2001.8	2001.4	2000.6	1999.8	1999.6	1999.8	2000.6
8.5°	1963.6	1963.6	1963.7	1963.5	1962.8	1963.5	1963.7	1963.6	1963.6	1963.6	1963.7
9°	1924.3	1924.2	1923.3	1921.9	1921.3	1921.9	1923.3	1924.2	1924.3	1924.2	1923.3
9.5°	1881.4	1881.1	1878.8	1876.8	1875.2	1876.8	1878.8	1881.1	1881.4	1881.1	1878.8
10°	1835.9	1834.9	1831.6	1827.9	1825.4	1827.9	1831.6	1834.9	1835.9	1834.9	1831.6
10.5°	1787.4	1785.3	1781.6	1777.1	1773.5	1777.1	1781.6	1785.3	1787.4	1785.3	1781.6
11°	1735.7	1733.9	1729.1	1725.4	1722.1	1725.4	1729.1	1733.9	1735.7	1733.9	1729.1
11.5°	1682.0	1680.4	1676.3	1670.9	1668.3	1670.9	1676.3	1680.4	1682.0	1680.4	1676.3
12°	1626.5	1625.2	1620.2	1615.2	1611.8	1615.2	1620.2	1625.2	1626.5	1625.2	1620.2
12.5°	1568.1	1565.9	1561.9	1557.1	1554.1	1557.1	1561.9	1565.9	1568.1	1565.9	1561.9
13°	1507.1	1506.0	1502.2	1499.4	1497.6	1499.4	1502.2	1506.0	1507.1	1506.0	1502.2
13.5°	1441.6	1442.4	1441.5	1440.5	1439.6	1440.5	1441.5	1442.4	1441.6	1442.4	1441.5
14°	1376.9	1378.3	1379.4	1380.8	1381.9	1380.8	1379.4	1378.3	1376.9	1378.3	1379.4
14.5°	1312.9	1315.1	1318.8	1322.4	1325.0	1322.4	1318.8	1315.1	1312.9	1315.1	1318.8
15°	1252.5	1254.3	1259.3	1264.0	1267.2	1264.0	1259.3	1254.3	1252.5	1254.3	1259.3
15.5°	1195.4	1197.8	1202.2	1207.4	1211.3	1207.4	1202.2	1197.8	1195.4	1197.8	1202.2
16°	1142.5	1144.0	1147.9	1154.1	1158.6	1154.1	1147.9	1144.0	1142.5	1144.0	1147.9
16.5°	1091.7	1092.9	1097.6	1103.2	1107.5	1103.2	1097.6	1092.9	1091.7	1092.9	1097.6
17°	1043.2	1044.5	1048.7	1054.3	1058.8	1054.3	1048.7	1044.5	1043.2	1044.5	1048.7
17.5°	997.1	998.4	1002.5	1007.1	1011.1	1007.1	1002.5	998.4	997.1	998.4	1002.5
18°	954.2	955.3	958.1	962.5	966.5	962.5	958.1	955.3	954.2	955.3	958.1
18.5°	913.9	914.2	917.0	922.5	923.7	922.5	917.0	914.2	913.9	914.2	917.0
19°	875.3	876.1	880.2	885.3	885.5	885.3	880.2	876.1	875.3	876.1	880.2
19.5°	839.6	841.8	845.5	849.9	850.3	849.9	845.5	841.8	839.6	841.8	845.5
20°	808.6	809.1	812.2	816.7	817.2	816.7	812.2	809.1	808.6	809.1	812.2
20.5°	779.0	779.8	781.4	785.4	786.4	785.4	781.4	779.8	779.0	779.8	781.4
21°	750.4	751.7	755.3	757.7	759.1	757.7	755.3	751.7	750.4	751.7	755.3



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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°	679.7	680.5	684.9	688.9	692.7	688.9	684.9	680.5	679.7	680.5	684.9
23°	660.2	661.0	663.8	668.6	672.9	668.6	663.8	661.0	660.2	661.0	663.8
23.5°	641.8	642.4	645.1	648.7	653.5	648.7	645.1	642.4	641.8	642.4	645.1
24°	624.3	624.9	627.3	631.2	634.4	631.2	627.3	624.9	624.3	624.9	627.3
24.5°	608.2	608.5	610.4	614.5	617.1	614.5	610.4	608.5	608.2	608.5	610.4
25°	592.8	593.1	594.6	598.8	601.2	598.8	594.6	593.1	592.8	593.1	594.6
25.5°	578.0	578.2	579.8	583.8	586.0	583.8	579.8	578.2	578.0	578.2	579.8
26°	563.8	564.0	565.5	569.5	571.7	569.5	565.5	564.0	563.8	564.0	565.5
26.5°	549.9	550.2	551.6	555.4	557.6	555.4	551.6	550.2	549.9	550.2	551.6
27°	536.9	537.2	538.4	542.1	544.6	542.1	538.4	537.2	536.9	537.2	538.4
27.5°	524.5	524.7	525.8	529.2	531.6	529.2	525.8	524.7	524.5	524.7	525.8
28°	512.6	512.7	513.9	517.0	519.2	517.0	513.9	512.7	512.6	512.7	513.9
28.5°	501.1	501.1	502.3	505.1	507.4	505.1	502.3	501.1	501.1	501.1	502.3
29°	490.0	489.9	490.9	493.7	495.8	493.7	490.9	489.9	490.0	489.9	490.9
29.5°	478.9	478.9	480.1	482.5	484.6	482.5	480.1	478.9	478.9	478.9	480.1
30°	468.4	468.4	469.6	471.9	474.1	471.9	469.6	468.4	468.4	468.4	469.6
30.5°	458.3	458.3	459.4	461.6	463.7	461.6	459.4	458.3	458.3	458.3	459.4
31°	448.7	448.6	449.9	451.9	454.0	451.9	449.9	448.6	448.7	448.6	449.9
31.5°	439.5	439.3	440.4	442.2	444.3	442.2	440.4	439.3	439.5	439.3	440.4
32°	430.6	430.4	431.4	432.9	434.4	432.9	431.4	430.4	430.6	430.4	431.4
32.5°	421.8	421.7	422.1	423.3	424.3	423.3	422.1	421.7	421.8	421.7	422.1
33°	412.7	412.4	412.4	413.3	414.2	413.3	412.4	412.4	412.7	412.4	412.4
33.5°	403.0	402.5	402.6	403.0	404.3	403.0	402.6	402.5	403.0	402.5	402.6
34°	392.7	392.2	392.2	391.9	393.3	391.9	392.2	392.2	392.7	392.2	392.2
34.5°	382.0	381.4	381.6	381.2	382.4	381.2	381.6	381.4	382.0	381.4	381.6
35°	370.8	370.6	370.5	370.5	371.1	370.5	370.5	370.6	370.8	370.6	370.5
35.5°	359.4	359.1	359.0	359.6	359.6	359.6	359.0	359.1	359.4	359.1	359.0
36°	347.7	347.6	347.6	348.3	347.8	348.3	347.6	347.6	347.7	347.6	347.6
36.5°	335.4	335.8	335.8	336.8	336.0	336.8	335.8	335.8	335.4	335.8	335.8
37°	323.1	323.7	324.1	325.0	324.0	325.0	324.1	323.7	323.1	323.7	324.1
37.5°	311.0	311.4	312.7	312.9	312.1	312.9	312.7	311.4	311.0	311.4	312.7
38°	298.8	298.9	300.5	300.3	300.2	300.3	300.5	298.9	298.8	298.9	300.5
38.5°	286.4	286.2	288.1	287.6	288.0	287.6	288.1	286.2	286.4	286.2	288.1
39°	273.4	273.6	275.7	274.8	275.9	274.8	275.7	273.6	273.4	273.6	275.7
39.5°	260.2	260.8	263.2	262.2	263.4	262.2	263.2	260.8	260.2	260.8	263.2
40°	247.0	248.1	250.6	249.7	250.9	249.7	250.6	248.1	247.0	248.1	250.6
40.5°	234.3	235.4	237.7	237.5	238.3	237.5	237.7	235.4	234.3	235.4	237.7
41°	221.9	222.9	224.9	225.3	225.8	225.3	224.9	222.9	221.9	222.9	224.9
41.5°	209.7	210.6	212.1	213.4	213.6	213.4	212.1	210.6	209.7	210.6	212.1
42°	197.6	198.3	199.5	201.4	201.6	201.4	199.5	198.3	197.6	198.3	199.5
42.5°	185.8	186.3	187.1	189.6	190.1	189.6	187.1	186.3	185.8	186.3	187.1
43°	173.9	174.3	174.9	177.7	178.6	177.7	174.9	174.3	173.9	174.3	174.9
43.5°	162.2	162.3	163.1	165.9	167.2	165.9	163.1	162.3	162.2	162.3	163.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	127.8	128.1	129.5	132.5	134.1	132.5	129.5	128.1	127.8	128.1	129.5
45.5°	117.2	117.6	119.0	122.1	123.5	122.1	119.0	117.6	117.2	117.6	119.0
46°	107.2	107.3	108.8	111.7	113.3	111.7	108.8	107.3	107.2	107.3	108.8
46.5°	97.3	97.5	98.8	101.5	103.5	101.5	98.8	97.5	97.3	97.5	98.8
47°	87.7	87.9	89.4	92.0	94.0	92.0	89.4	87.9	87.7	87.9	89.4
47.5°	78.2	78.8	80.6	82.8	85.2	82.8	80.6	78.8	78.2	78.8	80.6
48°	69.6	70.0	72.1	74.3	76.4	74.3	72.1	70.0	69.6	70.0	72.1
48.5°	61.3	61.7	64.0	66.3	68.5	66.3	64.0	61.7	61.3	61.7	64.0
49°	53.6	54.0	56.4	58.7	61.3	58.7	56.4	54.0	53.6	54.0	56.4
49.5°	46.2	47.0	49.3	51.6	54.2	51.6	49.3	47.0	46.2	47.0	49.3
50°	39.5	40.4	42.7	44.8	47.0	44.8	42.7	40.4	39.5	40.4	42.7
50.5°	33.3	34.7	36.7	38.5	39.9	38.5	36.7	34.7	33.3	34.7	36.7
51°	27.9	29.3	31.1	32.6	33.4	32.6	31.1	29.3	27.9	29.3	31.1
51.5°	23.5	24.5	25.8	27.4	28.0	27.4	25.8	24.5	23.5	24.5	25.8
52°	19.5	20.4	21.4	22.8	23.1	22.8	21.4	20.4	19.5	20.4	21.4
52.5°	16.0	16.4	17.6	18.8	18.6	18.8	17.6	16.4	16.0	16.4	17.6
53°	12.5	13.2	14.0	15.0	14.8	15.0	14.0	13.2	12.5	13.2	14.0
53.5°	9.0	10.0	10.8	11.5	11.4	11.5	10.8	10.0	9.0	10.0	10.8
54°	6.5	6.9	7.8	8.7	9.4	8.7	7.8	6.9	6.5	6.9	7.8
54.5°	4.1	4.6	5.6	6.2	7.4	6.2	5.6	4.6	4.1	4.6	5.6
55°	2.5	2.9	3.8	4.3	5.4	4.3	3.8	2.9	2.5	2.9	3.8
55.5°	1.8	1.8	2.2	2.7	3.5	2.7	2.2	1.8	1.8	1.8	2.2
56°	1.3	1.2	1.4	1.7	1.8	1.7	1.4	1.2	1.3	1.2	1.4
56.5°	0.9	0.8	1.0	1.3	1.0	1.3	1.0	0.8	0.9	0.8	1.0
57°	0.5	0.7	0.7	0.9	0.6	0.9	0.7	0.7	0.5	0.7	0.7
57.5°	0.5	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	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	0.2	0.2	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	0.2



TEST NUMBER: P775740

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

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	0.1	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	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	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	0.1
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	0.0	0.1	0.1
76°	0.0	0.0	0.0	0.0	0.0	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	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: P775740
CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

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: P775740

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1
0.5°	2263.8	2267.3	2263.8	2263.4	2263.4	2263.4
1°	2257.2	2259.6	2257.2	2257.1	2257.4	2257.4
1.5°	2246.2	2247.7	2246.2	2246.7	2247.5	2247.6
2°	2232.3	2232.5	2232.3	2233.5	2234.6	2235.2
2.5°	2216.4	2215.8	2216.4	2218.4	2220.0	2220.4
3°	2199.8	2198.7	2199.8	2202.5	2204.3	2204.8
3.5°	2183.7	2182.3	2183.7	2186.4	2188.5	2189.2
4°	2168.4	2167.0	2168.4	2170.5	2172.5	2173.6
4.5°	2153.7	2152.6	2153.7	2155.1	2156.6	2157.6
5°	2139.0	2138.8	2139.0	2139.6	2140.5	2141.2
5.5°	2123.5	2124.3	2123.5	2123.1	2123.1	2123.5
6°	2106.5	2107.4	2106.5	2104.9	2104.3	2104.3
6.5°	2086.3	2087.5	2086.3	2084.5	2083.3	2082.8
7°	2062.4	2063.8	2062.4	2060.6	2059.5	2058.5
7.5°	2034.1	2034.9	2034.1	2032.8	2031.4	2031.0
8°	2001.4	2001.8	2001.4	2000.6	1999.8	1999.6
8.5°	1963.5	1962.8	1963.5	1963.7	1963.6	1963.6
9°	1921.9	1921.3	1921.9	1923.3	1924.2	1924.3
9.5°	1876.8	1875.2	1876.8	1878.8	1881.1	1881.4
10°	1827.9	1825.4	1827.9	1831.6	1834.9	1835.9
10.5°	1777.1	1773.5	1777.1	1781.6	1785.3	1787.4
11°	1725.4	1722.1	1725.4	1729.1	1733.9	1735.7
11.5°	1670.9	1668.3	1670.9	1676.3	1680.4	1682.0
12°	1615.2	1611.8	1615.2	1620.2	1625.2	1626.5
12.5°	1557.1	1554.1	1557.1	1561.9	1565.9	1568.1
13°	1499.4	1497.6	1499.4	1502.2	1506.0	1507.1
13.5°	1440.5	1439.6	1440.5	1441.5	1442.4	1441.6
14°	1380.8	1381.9	1380.8	1379.4	1378.3	1376.9
14.5°	1322.4	1325.0	1322.4	1318.8	1315.1	1312.9
15°	1264.0	1267.2	1264.0	1259.3	1254.3	1252.5
15.5°	1207.4	1211.3	1207.4	1202.2	1197.8	1195.4
16°	1154.1	1158.6	1154.1	1147.9	1144.0	1142.5
16.5°	1103.2	1107.5	1103.2	1097.6	1092.9	1091.7
17°	1054.3	1058.8	1054.3	1048.7	1044.5	1043.2
17.5°	1007.1	1011.1	1007.1	1002.5	998.4	997.1
18°	962.5	966.5	962.5	958.1	955.3	954.2
18.5°	922.5	923.7	922.5	917.0	914.2	913.9
19°	885.3	885.5	885.3	880.2	876.1	875.3
19.5°	849.9	850.3	849.9	845.5	841.8	839.6
20°	816.7	817.2	816.7	812.2	809.1	808.6
20.5°	785.4	786.4	785.4	781.4	779.8	779.0
21°	757.7	759.1	757.7	755.3	751.7	750.4



TEST NUMBER: P775740

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	688.9	692.7	688.9	684.9	680.5	679.7
23°	668.6	672.9	668.6	663.8	661.0	660.2
23.5°	648.7	653.5	648.7	645.1	642.4	641.8
24°	631.2	634.4	631.2	627.3	624.9	624.3
24.5°	614.5	617.1	614.5	610.4	608.5	608.2
25°	598.8	601.2	598.8	594.6	593.1	592.8
25.5°	583.8	586.0	583.8	579.8	578.2	578.0
26°	569.5	571.7	569.5	565.5	564.0	563.8
26.5°	555.4	557.6	555.4	551.6	550.2	549.9
27°	542.1	544.6	542.1	538.4	537.2	536.9
27.5°	529.2	531.6	529.2	525.8	524.7	524.5
28°	517.0	519.2	517.0	513.9	512.7	512.6
28.5°	505.1	507.4	505.1	502.3	501.1	501.1
29°	493.7	495.8	493.7	490.9	489.9	490.0
29.5°	482.5	484.6	482.5	480.1	478.9	478.9
30°	471.9	474.1	471.9	469.6	468.4	468.4
30.5°	461.6	463.7	461.6	459.4	458.3	458.3
31°	451.9	454.0	451.9	449.9	448.6	448.7
31.5°	442.2	444.3	442.2	440.4	439.3	439.5
32°	432.9	434.4	432.9	431.4	430.4	430.6
32.5°	423.3	424.3	423.3	422.1	421.7	421.8
33°	413.3	414.2	413.3	412.4	412.4	412.7
33.5°	403.0	404.3	403.0	402.6	402.5	403.0
34°	391.9	393.3	391.9	392.2	392.2	392.7
34.5°	381.2	382.4	381.2	381.6	381.4	382.0
35°	370.5	371.1	370.5	370.5	370.6	370.8
35.5°	359.6	359.6	359.6	359.0	359.1	359.4
36°	348.3	347.8	348.3	347.6	347.6	347.7
36.5°	336.8	336.0	336.8	335.8	335.8	335.4
37°	325.0	324.0	325.0	324.1	323.7	323.1
37.5°	312.9	312.1	312.9	312.7	311.4	311.0
38°	300.3	300.2	300.3	300.5	298.9	298.8
38.5°	287.6	288.0	287.6	288.1	286.2	286.4
39°	274.8	275.9	274.8	275.7	273.6	273.4
39.5°	262.2	263.4	262.2	263.2	260.8	260.2
40°	249.7	250.9	249.7	250.6	248.1	247.0
40.5°	237.5	238.3	237.5	237.7	235.4	234.3
41°	225.3	225.8	225.3	224.9	222.9	221.9
41.5°	213.4	213.6	213.4	212.1	210.6	209.7
42°	201.4	201.6	201.4	199.5	198.3	197.6
42.5°	189.6	190.1	189.6	187.1	186.3	185.8
43°	177.7	178.6	177.7	174.9	174.3	173.9
43.5°	165.9	167.2	165.9	163.1	162.3	162.2



TEST NUMBER: P775740

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	132.5	134.1	132.5	129.5	128.1	127.8
45.5°	122.1	123.5	122.1	119.0	117.6	117.2
46°	111.7	113.3	111.7	108.8	107.3	107.2
46.5°	101.5	103.5	101.5	98.8	97.5	97.3
47°	92.0	94.0	92.0	89.4	87.9	87.7
47.5°	82.8	85.2	82.8	80.6	78.8	78.2
48°	74.3	76.4	74.3	72.1	70.0	69.6
48.5°	66.3	68.5	66.3	64.0	61.7	61.3
49°	58.7	61.3	58.7	56.4	54.0	53.6
49.5°	51.6	54.2	51.6	49.3	47.0	46.2
50°	44.8	47.0	44.8	42.7	40.4	39.5
50.5°	38.5	39.9	38.5	36.7	34.7	33.3
51°	32.6	33.4	32.6	31.1	29.3	27.9
51.5°	27.4	28.0	27.4	25.8	24.5	23.5
52°	22.8	23.1	22.8	21.4	20.4	19.5
52.5°	18.8	18.6	18.8	17.6	16.4	16.0
53°	15.0	14.8	15.0	14.0	13.2	12.5
53.5°	11.5	11.4	11.5	10.8	10.0	9.0
54°	8.7	9.4	8.7	7.8	6.9	6.5
54.5°	6.2	7.4	6.2	5.6	4.6	4.1
55°	4.3	5.4	4.3	3.8	2.9	2.5
55.5°	2.7	3.5	2.7	2.2	1.8	1.8
56°	1.7	1.8	1.7	1.4	1.2	1.3
56.5°	1.3	1.0	1.3	1.0	0.8	0.9
57°	0.9	0.6	0.9	0.7	0.7	0.5
57.5°	0.7	0.5	0.7	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
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	0.2	0.2	0.2	0.2	0.2
65.5°	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



TEST NUMBER: P775740

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.1	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1
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°	0.1	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	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.0
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: P775740
CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-2700K

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°	723.3	726.2	730.6	733.2	734.0	733.2	730.6	726.2	723.3	726.2	730.6
22°	701.1	702.7	707.0	710.5	712.9	710.5	707.0	702.7	701.1	702.7	707.0



44°	150.3	150.6	151.5	154.3	156.0	154.3	151.5	150.6	150.3	150.6	151.5
44.5°	138.9	139.2	140.1	143.3	144.9	143.3	140.1	139.2	138.9	139.2	140.1



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



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°	733.2	734.0	733.2	730.6	726.2	723.3
22°	710.5	712.9	710.5	707.0	702.7	701.1

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44°	154.3	156.0	154.3	151.5	150.6	150.3
44.5°	143.3	144.9	143.3	140.1	139.2	138.9

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66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	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)