

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: P775969

Luminaire Tested: HCDJBL51525CSD-HCD42TRMB-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B051)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRMB-2500lm-5000K
Description: 4 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

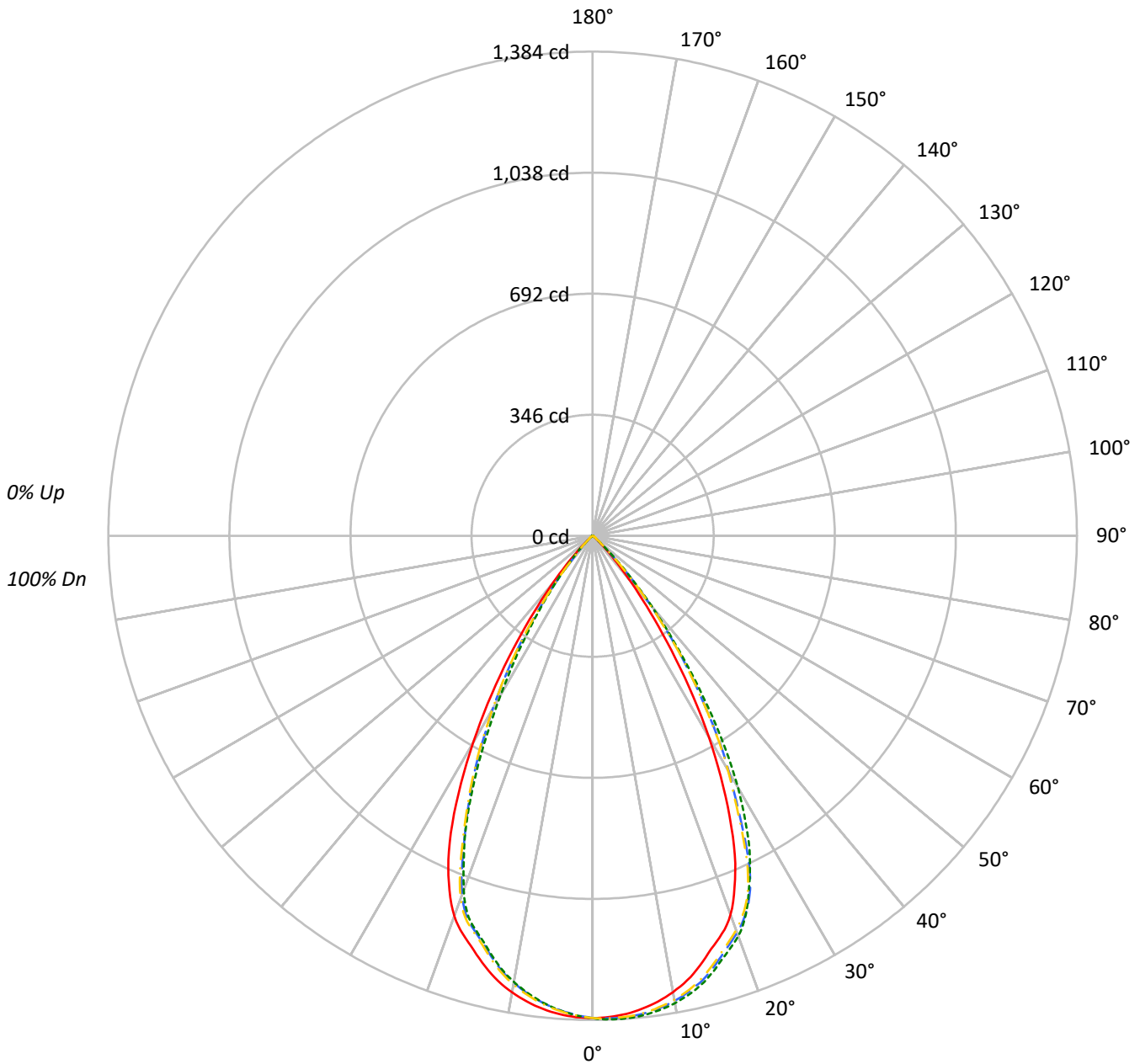
Lumens per Lamp: N/A
Luminaire Lumens: 1217.2 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.94 / 0.88
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): 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									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94																			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82																			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59																			
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	173459	173459	173459	173459
5°	172466	174488	172530	170736
10°	169247	173336	169349	165528
15°	162588	169337	163018	156634
20°	154310	163082	154899	144159
25°	131681	147608	134291	114240
30°	96550	120687	99180	76394
35°	57044	80689	61085	43525
40°	26171	43043	29177	19780
45°	8080	14630	9219	5784
50°	2565	2937	2624	2212
55°	1580	1821	1580	1360
60°	982	1107	1032	906
65°	685	685	685	625
70°	478	478	478	368
75°	243	389	243	243
80°	217	217	217	217
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 15288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	10.6
10°-20°	350.9	28.8
20°-30°	425.9	35.0
30°-40°	250.9	20.6
40°-50°	50.5	4.1
50°-60°	6.9	0.6
60°-70°	2.3	0.2
70°-80°	0.7	0.1
80°-90°	0.1	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°	905.8	74.4
0°-40°	1156.7	95.0
0°-60°	1214.1	99.7
0°-90°	1217.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1378	1378	1378	1378	1378	
5°	1365	1381	1366	1352	1365	129
15°	1248	1300	1251	1202	1248	351
25°	948	1063	967	823	948	425
35°	371	525	398	283	371	236
45°	45	82	52	32	45	44
55°	7	8	7	6	7	7
65°	2	2	2	2	2	2
75°	0	1	0	0	0	1
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°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3
0.5°	1378.6	1379.4	1378.6	1378.1	1380.9	1379.9	1379.1	1378.8	1378.6	1378.3	1376.3
1°	1378.1	1379.4	1379.4	1379.1	1381.9	1380.9	1379.9	1379.1	1378.3	1377.3	1374.5
1.5°	1377.6	1379.4	1380.1	1380.1	1382.7	1381.7	1380.1	1378.8	1377.6	1376.0	1372.7
2°	1376.5	1378.8	1380.4	1380.7	1383.2	1382.2	1380.4	1378.6	1376.8	1374.7	1370.3
2.5°	1375.2	1378.3	1380.4	1380.9	1383.7	1382.5	1380.1	1378.1	1375.5	1372.9	1367.8
3°	1373.7	1377.3	1380.1	1381.2	1383.7	1382.5	1379.9	1377.0	1374.2	1370.9	1365.2
3.5°	1372.1	1376.3	1379.9	1380.9	1383.5	1381.9	1379.1	1376.0	1372.4	1368.5	1362.3
4°	1370.1	1374.7	1379.1	1380.4	1383.0	1381.4	1378.3	1374.5	1370.3	1366.0	1359.0
4.5°	1367.8	1373.2	1378.3	1379.9	1382.2	1380.7	1377.0	1372.9	1368.3	1363.4	1355.4
5°	1365.2	1371.1	1377.0	1378.8	1381.2	1379.4	1375.8	1371.1	1365.7	1360.3	1351.5
5.5°	1362.3	1369.1	1375.5	1377.8	1379.9	1378.1	1373.9	1369.1	1362.9	1356.9	1347.7
6°	1359.3	1366.5	1373.7	1376.3	1378.3	1376.3	1371.9	1366.5	1359.8	1353.3	1343.3
6.5°	1355.9	1363.9	1371.6	1374.5	1376.8	1374.5	1369.6	1363.6	1356.4	1349.2	1338.6
7°	1352.5	1360.8	1369.3	1372.4	1374.5	1372.1	1367.2	1360.5	1353.1	1345.1	1333.5
7.5°	1348.4	1357.4	1366.7	1370.3	1372.1	1369.6	1364.7	1357.4	1349.2	1340.4	1328.3
8°	1344.3	1353.8	1364.2	1367.8	1369.6	1367.0	1361.3	1353.8	1344.8	1335.8	1322.9
8.5°	1339.7	1350.0	1360.8	1364.9	1366.7	1363.9	1358.0	1350.0	1340.4	1330.9	1317.0
9°	1335.0	1345.8	1357.4	1361.8	1363.6	1360.8	1354.4	1345.8	1335.8	1325.5	1311.0
9.5°	1329.9	1341.2	1353.8	1358.5	1360.3	1357.2	1350.5	1341.5	1330.6	1320.1	1304.3
10°	1324.4	1336.6	1350.0	1354.9	1356.4	1353.6	1346.4	1336.8	1325.2	1313.9	1297.6
10.5°	1318.5	1331.4	1345.8	1351.0	1352.5	1349.2	1342.0	1331.7	1319.5	1307.7	1290.7
11°	1312.8	1326.3	1341.2	1346.6	1348.2	1344.8	1337.1	1326.3	1313.9	1301.0	1283.2
11.5°	1306.4	1320.6	1336.3	1342.2	1343.5	1339.9	1331.9	1320.6	1307.4	1294.0	1274.9
12°	1299.4	1314.4	1331.1	1337.6	1338.6	1335.0	1326.5	1314.6	1300.7	1286.5	1266.4
12.5°	1292.0	1307.7	1325.7	1332.2	1333.5	1329.3	1320.6	1308.2	1293.5	1278.6	1257.4
13°	1284.0	1301.0	1319.5	1326.8	1327.5	1323.7	1314.4	1301.5	1286.0	1270.3	1247.9
13.5°	1275.5	1293.2	1313.6	1320.8	1321.4	1317.2	1307.7	1294.0	1277.8	1261.5	1238.1
14°	1266.7	1285.5	1306.9	1314.4	1314.9	1310.5	1300.5	1286.3	1269.3	1252.0	1227.5
14.5°	1257.4	1277.0	1299.7	1307.4	1307.4	1302.8	1293.0	1278.0	1260.5	1242.2	1217.4
15°	1247.9	1268.0	1292.0	1300.0	1299.7	1295.3	1284.7	1269.5	1251.2	1232.4	1207.4
15.5°	1238.3	1258.7	1283.7	1292.0	1292.0	1287.1	1276.2	1260.5	1241.7	1222.6	1198.4
16°	1229.3	1249.7	1274.9	1283.7	1283.5	1278.6	1267.5	1251.2	1232.1	1213.1	1189.6
16.5°	1221.1	1240.7	1265.9	1274.9	1274.4	1269.8	1258.4	1242.2	1223.4	1204.3	1180.8
17°	1212.6	1232.4	1256.9	1266.4	1265.9	1261.0	1249.4	1233.4	1214.9	1196.0	1172.1
17.5°	1204.6	1224.2	1248.4	1257.7	1257.7	1252.8	1240.9	1225.2	1206.6	1187.5	1163.3
18°	1196.3	1216.2	1239.9	1249.7	1250.2	1244.8	1233.2	1216.9	1198.1	1178.8	1153.0
18.5°	1187.5	1207.7	1231.9	1241.9	1242.2	1237.0	1224.7	1208.2	1189.3	1169.5	1141.1
19°	1177.2	1199.4	1223.6	1233.9	1234.5	1229.1	1216.4	1200.2	1179.8	1158.7	1126.7
19.5°	1165.4	1190.1	1215.6	1225.7	1226.7	1221.1	1208.2	1190.9	1169.0	1145.8	1110.2
20°	1152.2	1179.5	1207.1	1218.0	1217.7	1212.3	1199.4	1181.1	1156.6	1131.1	1090.9
20.5°	1137.0	1167.7	1198.4	1208.9	1207.4	1202.5	1189.9	1170.3	1142.4	1114.8	1069.2
21°	1120.5	1155.1	1188.6	1198.9	1195.5	1191.2	1179.5	1158.1	1127.5	1096.5	1044.2



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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°	1063.5	1107.4	1154.0	1161.2	1152.5	1150.7	1142.7	1114.6	1073.6	1030.8	963.5
23°	1042.9	1088.5	1139.8	1146.3	1135.5	1134.2	1128.2	1097.3	1054.8	1006.0	936.9
23.5°	1021.8	1068.7	1124.1	1129.5	1117.2	1116.4	1111.2	1078.0	1034.4	980.3	910.6
24°	998.3	1047.5	1106.6	1111.0	1099.1	1098.3	1092.7	1057.6	1013.3	954.2	885.9
24.5°	973.8	1025.1	1086.7	1091.9	1081.3	1078.5	1071.3	1036.5	990.8	928.2	860.9
25°	948.3	1001.9	1063.3	1071.3	1063.0	1058.9	1048.6	1013.8	967.1	903.4	835.9
25.5°	921.2	977.2	1038.3	1051.2	1044.7	1039.3	1022.5	989.5	941.3	878.9	810.6
26°	893.6	950.3	1009.6	1029.5	1025.4	1019.2	994.2	963.7	914.8	854.9	784.8
26.5°	865.0	921.5	979.2	1007.3	1004.7	996.8	964.0	936.4	886.9	830.2	758.3
27°	836.4	891.6	947.5	983.3	982.8	973.5	934.9	907.5	859.3	805.2	730.9
27.5°	808.0	860.1	916.3	959.1	958.3	949.1	905.2	877.4	830.2	779.9	702.3
28°	779.9	827.9	885.9	932.0	933.3	923.8	876.9	845.2	800.8	753.9	674.2
28.5°	751.6	795.9	857.5	904.4	907.3	895.9	849.0	814.2	772.7	727.1	646.6
29°	722.4	764.5	830.5	875.1	882.3	867.3	824.0	783.8	742.3	699.0	620.3
29.5°	693.5	732.5	804.9	845.2	856.5	837.7	798.0	754.1	712.1	669.1	594.3
30°	664.4	702.8	779.1	814.5	830.5	808.3	772.4	725.5	682.5	639.9	568.5
30.5°	635.3	672.1	753.4	785.3	802.6	778.6	746.7	696.6	653.6	610.3	543.5
31°	604.9	642.8	725.8	756.5	774.5	750.3	720.1	668.3	623.7	581.4	518.2
31.5°	574.9	612.8	697.7	727.8	743.8	721.9	691.5	639.9	594.3	552.8	493.0
32°	544.8	584.0	668.3	700.3	712.9	694.3	662.6	611.3	565.2	525.4	467.4
32.5°	514.6	555.9	638.4	673.7	681.2	666.0	633.5	582.2	537.0	498.6	440.4
33°	484.5	528.0	608.0	646.4	649.5	638.6	604.3	552.3	507.9	472.3	413.8
33.5°	454.5	500.2	578.6	618.8	618.3	610.0	575.5	523.6	479.6	445.8	387.8
34°	425.4	473.9	550.7	590.7	587.1	582.2	548.1	496.1	451.7	418.7	362.5
34.5°	397.6	447.3	524.2	562.6	556.1	553.0	522.6	469.0	424.6	391.6	337.2
35°	371.3	421.3	497.3	533.4	525.2	524.7	496.1	442.9	397.6	364.6	313.3
35.5°	346.0	396.5	472.1	504.6	495.3	497.1	470.8	417.7	371.8	338.3	290.1
36°	321.5	373.3	446.8	475.9	466.1	469.2	444.7	394.0	346.8	312.2	267.6
36.5°	297.5	350.1	421.5	448.9	437.3	441.1	418.4	370.5	322.8	287.5	245.4
37°	274.8	326.7	395.5	422.1	409.7	413.6	391.6	347.5	298.3	263.5	223.3
37.5°	253.4	304.2	370.0	396.3	383.4	386.5	365.1	324.6	276.4	242.6	201.1
38°	232.6	281.5	343.9	370.8	357.9	360.2	339.0	302.4	255.0	222.0	179.2
38.5°	212.4	259.4	318.9	344.7	333.1	333.9	313.8	280.3	235.7	201.1	158.8
39°	193.9	237.7	295.5	320.2	308.9	308.9	289.0	258.3	216.3	180.5	140.0
39.5°	176.1	216.8	272.8	295.7	285.2	284.1	266.1	237.7	197.0	163.5	122.7
40°	159.3	197.0	251.9	271.5	262.0	260.7	245.7	217.3	177.6	145.9	107.5
40.5°	143.6	177.9	231.0	247.8	241.1	238.5	225.3	197.0	160.4	129.9	94.1
41°	128.7	159.9	211.4	224.3	220.2	216.6	205.0	176.6	144.6	115.0	82.5
41.5°	115.2	143.4	192.1	202.4	199.3	194.7	184.6	158.6	129.4	101.1	72.4
42°	102.6	127.9	173.0	181.5	178.4	172.5	164.2	141.8	115.5	88.4	64.2
42.5°	91.0	113.4	154.4	162.2	160.6	153.4	145.7	125.6	102.6	77.6	57.0
43°	81.7	99.8	135.9	143.9	142.8	135.4	127.6	110.6	90.8	67.8	50.0
43.5°	72.7	88.4	118.6	126.8	126.8	118.9	110.9	97.2	79.7	59.3	44.1



TEST NUMBER: P775969

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	45.4	58.3	77.1	85.9	82.2	77.3	69.9	62.4	51.8	39.2	29.4
45.5°	38.9	48.5	66.5	75.3	69.6	66.3	59.0	53.4	44.3	33.8	26.3
46°	33.0	41.0	56.2	64.7	58.8	56.2	50.0	44.9	37.4	28.9	23.5
46.5°	27.6	34.3	45.6	54.1	49.0	47.4	42.0	37.9	31.5	26.0	20.4
47°	23.2	28.4	38.4	43.8	40.5	39.4	35.1	31.5	28.1	22.9	17.5
47.5°	19.3	23.5	31.7	36.4	33.3	32.7	31.7	28.1	24.8	20.1	14.4
48°	16.8	19.3	26.3	29.9	29.6	29.1	28.4	24.8	21.4	17.3	13.4
48.5°	15.2	16.8	21.7	24.2	25.8	25.8	25.0	21.7	18.0	14.4	12.9
49°	14.4	15.2	18.3	19.9	22.2	22.2	21.7	18.3	14.7	13.7	12.4
49.5°	13.7	14.4	16.2	17.0	18.6	18.6	18.0	15.2	13.9	12.9	11.9
50°	13.1	13.7	15.0	15.5	15.0	15.2	14.7	14.2	13.4	12.4	11.1
50.5°	12.4	13.1	14.2	14.4	14.2	14.4	14.2	13.7	12.6	11.9	10.6
51°	11.9	12.4	13.7	13.9	13.7	13.7	13.4	12.9	12.1	11.1	9.8
51.5°	11.1	11.9	12.9	13.1	12.9	12.9	12.6	12.1	11.3	10.6	9.3
52°	10.6	11.1	12.4	12.6	12.4	12.4	12.1	11.3	10.6	9.8	8.8
52.5°	9.8	10.3	11.6	11.9	11.6	11.6	11.3	10.8	10.1	9.3	8.3
53°	9.3	9.8	10.8	11.1	10.8	10.8	10.6	10.1	9.3	8.8	7.7
53.5°	8.8	9.0	10.1	10.3	10.1	10.1	9.8	9.5	8.8	8.3	7.2
54°	8.3	8.5	9.5	9.8	9.5	9.5	9.3	8.8	8.3	7.7	7.0
54.5°	7.7	8.0	9.0	9.3	8.8	8.8	8.8	8.3	7.7	7.2	6.4
55°	7.2	7.7	8.3	8.5	8.3	8.3	8.3	7.7	7.2	7.0	6.2
55.5°	6.7	7.2	7.7	8.0	7.7	7.7	7.7	7.2	7.0	6.4	5.7
56°	6.4	6.7	7.2	7.5	7.2	7.2	7.2	7.0	6.4	6.2	5.4
56.5°	5.9	6.2	7.0	7.0	7.0	7.0	6.7	6.4	6.2	5.7	5.2
57°	5.7	5.9	6.4	6.7	6.4	6.4	6.4	6.2	5.7	5.4	4.9
57.5°	5.2	5.4	5.9	6.2	5.9	5.9	5.9	5.7	5.4	5.2	4.6
58°	4.9	5.2	5.7	5.9	5.7	5.7	5.7	5.4	5.2	4.9	4.4
58.5°	4.6	4.9	5.4	5.4	5.4	5.4	5.2	5.2	4.9	4.6	4.1
59°	4.4	4.6	4.9	5.2	4.9	4.9	4.9	4.9	4.6	4.4	3.9
59.5°	4.1	4.4	4.6	4.9	4.6	4.6	4.6	4.4	4.4	4.1	3.6
60°	3.9	4.1	4.4	4.6	4.4	4.4	4.4	4.1	4.1	3.9	3.4
60.5°	3.6	3.9	4.1	4.4	4.1	4.1	4.1	3.9	3.9	3.6	3.4
61°	3.6	3.6	3.9	4.1	3.9	3.9	3.9	3.9	3.6	3.4	3.1
61.5°	3.4	3.4	3.6	3.9	3.6	3.6	3.6	3.6	3.4	3.1	2.8
62°	3.1	3.1	3.6	3.6	3.6	3.6	3.4	3.4	3.1	3.1	2.8
62.5°	2.8	3.1	3.4	3.4	3.4	3.4	3.4	3.1	3.1	2.8	2.6
63°	2.8	2.8	3.1	3.1	3.1	3.1	3.1	3.1	2.8	2.8	2.6
63.5°	2.6	2.6	2.8	3.1	2.8	2.8	2.8	2.8	2.6	2.6	2.3
64°	2.6	2.6	2.8	2.8	2.8	2.8	2.8	2.6	2.6	2.3	2.3
64.5°	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.3	2.3	2.1
65°	2.3	2.3	2.6	2.6	2.3	2.3	2.3	2.3	2.3	2.1	2.1
65.5°	2.1	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.1	2.1	1.8
66°	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.1	1.8	1.8



TEST NUMBER: P775969

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5
68°	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.5	1.3
68.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3
69°	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
69.5°	1.3	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0
70.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0
71°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8
72.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
73°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
75°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
75.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
78°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
78.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
82.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	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: P775969
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-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: P775969

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3
0.5°	1375.0	1377.8	1377.0	1377.0	1377.6	1378.6
1°	1372.9	1376.0	1375.5	1375.5	1376.8	1378.1
1.5°	1370.9	1373.9	1373.4	1373.9	1375.5	1377.6
2°	1368.3	1371.4	1371.1	1371.9	1373.9	1376.5
2.5°	1365.4	1368.8	1368.5	1369.6	1372.1	1375.2
3°	1362.6	1366.0	1365.7	1367.2	1370.1	1373.7
3.5°	1359.3	1362.6	1362.6	1364.4	1368.0	1372.1
4°	1355.6	1359.3	1359.3	1361.3	1365.2	1370.1
4.5°	1352.0	1355.4	1355.6	1358.0	1362.3	1367.8
5°	1347.7	1351.5	1351.8	1354.6	1359.3	1365.2
5.5°	1343.5	1347.1	1347.4	1350.7	1356.2	1362.3
6°	1338.6	1342.5	1343.0	1346.6	1352.3	1359.3
6.5°	1334.0	1337.6	1338.4	1342.0	1348.4	1355.9
7°	1328.6	1332.4	1333.2	1337.6	1344.3	1352.5
7.5°	1322.9	1327.0	1328.1	1332.4	1339.7	1348.4
8°	1317.2	1321.1	1322.4	1327.0	1335.0	1344.3
8.5°	1311.0	1315.2	1316.5	1321.4	1329.9	1339.7
9°	1304.6	1308.7	1310.3	1315.7	1324.4	1335.0
9.5°	1298.1	1302.3	1303.8	1309.2	1318.8	1329.9
10°	1290.9	1295.3	1296.9	1303.0	1312.8	1324.4
10.5°	1283.7	1287.8	1289.6	1296.1	1306.4	1318.5
11°	1275.5	1280.1	1282.2	1288.6	1299.4	1312.8
11.5°	1267.2	1271.6	1273.7	1280.6	1292.2	1306.4
12°	1258.4	1263.1	1264.9	1272.4	1284.5	1299.4
12.5°	1248.9	1253.5	1255.3	1262.8	1276.0	1292.0
13°	1239.1	1243.5	1245.3	1253.5	1267.5	1284.0
13.5°	1228.8	1233.4	1235.5	1243.7	1257.9	1275.5
14°	1218.0	1222.9	1224.9	1233.4	1248.4	1266.7
14.5°	1207.7	1212.3	1214.4	1223.4	1238.3	1257.4
15°	1198.1	1202.2	1204.3	1212.8	1228.5	1247.9
15.5°	1189.1	1193.0	1195.3	1203.5	1218.7	1238.3
16°	1180.1	1184.2	1186.5	1194.8	1210.0	1229.3
16.5°	1171.0	1175.4	1177.5	1186.3	1201.7	1221.1
17°	1162.3	1166.7	1168.7	1177.7	1193.5	1212.6
17.5°	1152.7	1157.4	1159.7	1169.2	1185.0	1204.6
18°	1140.4	1146.8	1149.4	1160.0	1176.5	1196.3
18.5°	1126.4	1132.6	1136.0	1149.1	1166.7	1187.5
19°	1110.5	1116.9	1121.5	1136.0	1155.1	1177.2
19.5°	1092.1	1098.1	1104.0	1120.8	1141.6	1165.4
20°	1071.5	1076.4	1084.4	1102.5	1126.2	1152.2
20.5°	1049.1	1053.5	1062.5	1082.3	1108.1	1137.0
21°	1025.4	1029.5	1039.0	1059.4	1088.0	1120.5

TEST NUMBER: P775969

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	944.9	958.1	961.2	979.5	1016.1	1063.5
23°	916.8	934.4	934.4	951.4	989.0	1042.9
23.5°	888.5	908.6	907.0	923.5	963.2	1021.8
24°	861.4	881.5	878.4	895.9	937.5	998.3
24.5°	833.3	852.9	849.8	870.2	912.7	973.8
25°	806.0	822.7	821.7	843.3	888.7	948.3
25.5°	779.4	793.3	793.3	817.6	864.7	921.2
26°	753.1	762.6	764.2	791.5	840.3	893.6
26.5°	725.8	733.3	735.6	766.0	815.2	865.0
27°	698.7	702.3	707.7	738.7	788.9	836.4
27.5°	671.1	672.1	679.9	711.1	761.6	808.0
28°	644.3	642.5	651.8	682.5	732.2	779.9
28.5°	617.0	612.3	625.2	653.8	702.8	751.6
29°	589.6	581.9	597.4	625.5	671.6	722.4
29.5°	562.3	553.6	570.3	598.7	643.0	693.5
30°	535.2	525.7	542.5	571.3	613.1	664.4
30.5°	507.7	498.1	514.9	544.8	585.3	635.3
31°	480.8	471.8	485.7	518.5	557.4	604.9
31.5°	453.8	447.1	457.9	493.7	530.3	574.9
32°	427.7	422.3	431.3	468.7	503.5	544.8
32.5°	401.7	398.3	405.8	443.7	478.0	514.6
33°	377.2	374.1	381.3	417.7	451.5	484.5
33.5°	352.7	349.6	357.9	392.2	424.4	454.5
34°	329.2	326.7	334.7	366.9	396.8	425.4
34.5°	306.8	304.5	312.5	341.4	370.2	397.6
35°	284.6	283.3	290.3	316.9	343.2	371.3
35.5°	263.0	263.2	269.9	293.1	316.9	346.0
36°	244.2	244.9	249.3	270.2	291.6	321.5
36.5°	225.6	226.6	229.5	248.0	267.6	297.5
37°	206.8	209.6	210.6	226.4	244.9	274.8
37.5°	188.2	192.9	192.9	205.2	223.3	253.4
38°	169.4	176.4	176.4	184.6	202.7	232.6
38.5°	154.2	161.1	160.4	165.0	182.8	212.4
39°	139.0	146.7	145.7	146.7	164.2	193.9
39.5°	124.8	133.0	131.7	129.4	146.7	176.1
40°	111.1	120.4	118.6	113.2	129.4	159.3
40.5°	99.3	108.0	106.0	99.3	114.2	143.6
41°	87.4	96.9	94.1	87.9	100.0	128.7
41.5°	77.1	87.7	85.1	79.2	87.7	115.2
42°	67.6	78.6	76.1	70.4	78.9	102.6
42.5°	59.3	69.6	67.3	61.9	70.1	91.0
43°	51.8	60.6	58.3	53.1	61.4	81.7
43.5°	45.1	51.6	49.2	46.9	52.6	72.7



TEST NUMBER: P775969

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	29.9	32.5	31.5	31.5	35.1	45.4
45.5°	26.3	27.3	26.6	27.3	30.7	38.9
46°	22.4	22.7	22.7	23.5	26.3	33.0
46.5°	18.8	18.8	19.1	20.1	22.4	27.6
47°	15.2	16.2	16.2	17.3	19.1	23.2
47.5°	13.9	14.7	14.7	15.5	16.8	19.3
48°	13.1	13.7	13.9	14.4	15.2	16.8
48.5°	12.6	13.1	13.1	13.7	14.2	15.2
49°	12.1	12.6	12.6	13.1	13.7	14.4
49.5°	11.3	11.9	12.1	12.4	13.1	13.7
50°	10.8	11.3	11.3	11.9	12.4	13.1
50.5°	10.1	10.6	10.8	11.1	11.9	12.4
51°	9.5	10.1	10.1	10.6	11.1	11.9
51.5°	9.0	9.5	9.5	9.8	10.6	11.1
52°	8.5	8.8	9.0	9.3	9.8	10.6
52.5°	8.0	8.3	8.5	8.8	9.3	9.8
53°	7.5	7.7	8.0	8.3	8.8	9.3
53.5°	7.2	7.5	7.5	7.7	8.3	8.8
54°	6.7	7.0	7.0	7.5	7.7	8.3
54.5°	6.4	6.4	6.7	7.0	7.2	7.7
55°	5.9	6.2	6.2	6.4	7.0	7.2
55.5°	5.7	5.9	5.9	6.2	6.4	6.7
56°	5.4	5.4	5.7	5.9	6.2	6.4
56.5°	4.9	5.2	5.2	5.4	5.7	5.9
57°	4.6	4.9	4.9	5.2	5.4	5.7
57.5°	4.4	4.6	4.6	4.9	5.2	5.2
58°	4.1	4.4	4.4	4.6	4.9	4.9
58.5°	4.1	4.1	4.1	4.4	4.6	4.6
59°	3.9	3.9	3.9	4.1	4.4	4.4
59.5°	3.6	3.6	3.9	3.9	4.1	4.1
60°	3.4	3.6	3.6	3.6	3.9	3.9
60.5°	3.1	3.4	3.4	3.4	3.6	3.6
61°	3.1	3.1	3.1	3.4	3.4	3.6
61.5°	2.8	2.8	3.1	3.1	3.1	3.4
62°	2.8	2.8	2.8	2.8	3.1	3.1
62.5°	2.6	2.6	2.6	2.8	2.8	2.8
63°	2.3	2.6	2.6	2.6	2.6	2.8
63.5°	2.3	2.3	2.3	2.6	2.6	2.6
64°	2.1	2.3	2.3	2.3	2.3	2.6
64.5°	2.1	2.1	2.1	2.1	2.3	2.3
65°	2.1	2.1	2.1	2.1	2.1	2.3
65.5°	1.8	1.8	1.8	2.1	2.1	2.1
66°	1.8	1.8	1.8	1.8	1.8	2.1



TEST NUMBER: P775969

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.5	1.5	1.5	1.5	1.5	1.5
68°	1.3	1.5	1.5	1.5	1.5	1.5
68.5°	1.3	1.3	1.3	1.3	1.3	1.5
69°	1.3	1.3	1.3	1.3	1.3	1.3
69.5°	1.0	1.3	1.3	1.3	1.3	1.3
70°	1.0	1.0	1.0	1.0	1.3	1.3
70.5°	1.0	1.0	1.0	1.0	1.0	1.0
71°	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.0	1.0	1.0	1.0
72°	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.8	0.8
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.3	0.5	0.5	0.5	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.0	0.0
82°	0.3	0.3	0.3	0.3	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: P775969

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	1102.5	1140.6	1178.0	1187.3	1182.6	1179.0	1168.2	1145.0	1110.5	1076.2	1018.2
22°	1083.1	1124.6	1166.1	1175.2	1168.2	1165.4	1156.3	1130.8	1092.4	1054.2	990.8



44°	63.7	78.4	102.4	111.1	110.6	103.4	95.7	84.3	69.4	51.8	38.9
44.5°	54.4	68.3	87.7	96.4	95.9	89.7	82.0	72.7	60.1	45.1	34.0



66.5°	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1	1.8	1.8	1.5
67°	1.8	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.5



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°	1000.1	1005.5	1014.3	1034.1	1065.8	1102.5
22°	973.5	981.3	988.2	1007.6	1041.4	1083.1



44°	39.2	44.6	42.5	41.3	46.2	63.7
44.5°	33.5	38.4	36.9	36.4	40.5	54.4



66.5°	1.5	1.8	1.8	1.8	1.8	1.8
67°	1.5	1.5	1.5	1.5	1.8	1.8

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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)