

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: P775915

Luminaire Tested: HCDJBL51525CSD-HCD42TRMW-1500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156A001)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD42TRMW-1500lm-2700K
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

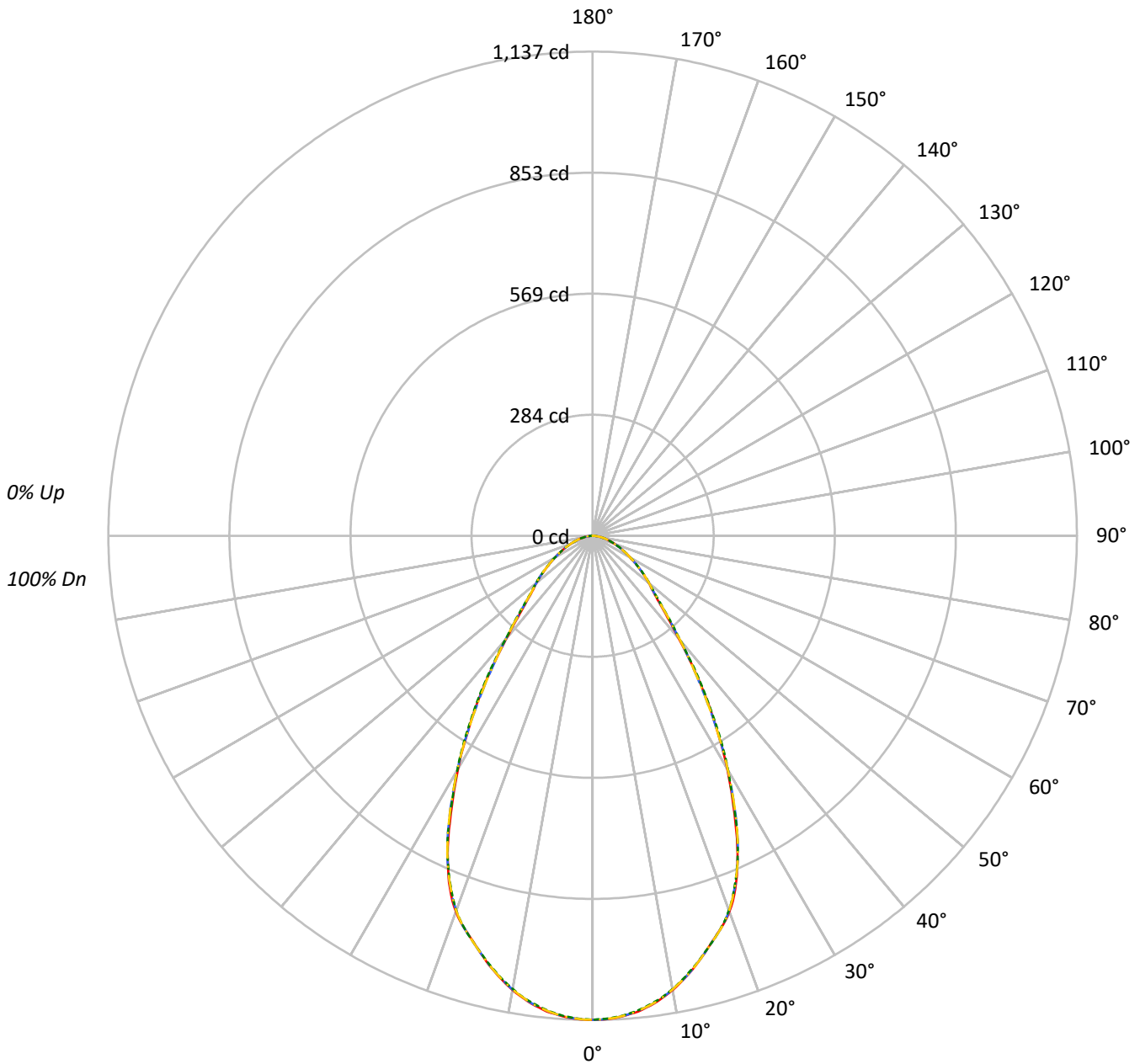
Lumens per Lamp: N/A
Luminaire Lumens: 1468.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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					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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	143079	143079	143079	143079
5°	142059	141755	142059	141755
10°	138398	138078	138398	138078
15°	132270	132113	132270	132113
20°	125770	125315	125770	125315
25°	111629	111990	111629	111990
30°	91841	92336	91841	92336
35°	71256	72024	71256	72024
40°	51750	52653	51750	52653
45°	39191	40152	39191	40152
50°	33754	34008	33754	34008
55°	29335	29665	29335	29665
60°	25648	25875	25648	25875
65°	22542	22721	22542	22721
70°	19870	20017	19870	20017
75°	17456	17456	17456	17456
80°	15147	15002	15147	15002
85°	12129	12129	12129	12129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 40152 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	7.2
10°-20°	285.2	19.4
20°-30°	365.2	24.9
30°-40°	289.4	19.7
40°-50°	177.2	12.1
50°-60°	121.1	8.3
60°-70°	75.8	5.2
70°-80°	38.4	2.6
80°-90°	9.7	0.7
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°	756.3	51.5
0°-40°	1045.7	71.2
0°-60°	1344.0	91.6
0°-90°	1468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1137	1137	1137	1137	1137	
5°	1124	1122	1124	1122	1124	106
15°	1015	1014	1015	1014	1015	285
25°	804	806	804	806	804	364
35°	464	469	464	469	464	289
45°	220	226	220	226	220	175
55°	134	135	134	135	134	120
65°	76	76	76	76	76	76
75°	36	36	36	36	36	38
85°	8	8	8	8	8	10
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°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
0.5°	1137.0	1136.9	1136.6	1136.4	1136.0	1136.4	1136.6	1136.9	1137.0	1136.9	1136.6
1°	1136.6	1136.4	1136.3	1136.1	1135.5	1136.1	1136.3	1136.4	1136.6	1136.4	1136.3
1.5°	1136.0	1135.7	1135.7	1135.4	1134.9	1135.4	1135.7	1135.7	1136.0	1135.7	1135.7
2°	1135.0	1134.9	1134.6	1134.4	1133.8	1134.4	1134.6	1134.9	1135.0	1134.9	1134.6
2.5°	1134.0	1133.7	1133.4	1133.2	1132.5	1133.2	1133.4	1133.7	1134.0	1133.7	1133.4
3°	1132.5	1132.2	1131.9	1131.5	1130.8	1131.5	1131.9	1132.2	1132.5	1132.2	1131.9
3.5°	1130.8	1130.5	1130.0	1129.7	1129.3	1129.7	1130.0	1130.5	1130.8	1130.5	1130.0
4°	1128.8	1128.7	1128.0	1127.7	1127.0	1127.7	1128.0	1128.7	1128.8	1128.7	1128.0
4.5°	1126.7	1126.4	1125.8	1125.5	1124.5	1125.5	1125.8	1126.4	1126.7	1126.4	1125.8
5°	1124.5	1124.1	1123.5	1123.2	1122.1	1123.2	1123.5	1124.1	1124.5	1124.1	1123.5
5.5°	1122.3	1121.2	1120.4	1120.1	1119.2	1120.1	1120.4	1121.2	1122.3	1121.2	1120.4
6°	1118.8	1118.1	1117.4	1116.9	1115.7	1116.9	1117.4	1118.1	1118.8	1118.1	1117.4
6.5°	1115.3	1114.8	1113.9	1113.4	1112.2	1113.4	1113.9	1114.8	1115.3	1114.8	1113.9
7°	1111.6	1111.0	1110.5	1109.8	1108.7	1109.8	1110.5	1111.0	1111.6	1111.0	1110.5
7.5°	1107.5	1106.9	1106.3	1106.0	1104.9	1106.0	1106.3	1106.9	1107.5	1106.9	1106.3
8°	1103.1	1102.6	1102.0	1101.6	1100.9	1101.6	1102.0	1102.6	1103.1	1102.6	1102.0
8.5°	1098.5	1097.9	1097.3	1096.8	1096.2	1096.8	1097.3	1097.9	1098.5	1097.9	1097.3
9°	1093.6	1093.2	1092.4	1092.0	1091.4	1092.0	1092.4	1093.2	1093.6	1093.2	1092.4
9.5°	1088.3	1088.0	1087.2	1086.8	1086.2	1086.8	1087.2	1088.0	1088.3	1088.0	1087.2
10°	1083.0	1082.5	1081.9	1081.3	1080.5	1081.3	1081.9	1082.5	1083.0	1082.5	1081.9
10.5°	1077.0	1076.7	1076.0	1075.5	1074.9	1075.5	1076.0	1076.7	1077.0	1076.7	1076.0
11°	1071.1	1070.8	1070.2	1069.6	1068.8	1069.6	1070.2	1070.8	1071.1	1070.8	1070.2
11.5°	1064.9	1064.6	1063.9	1063.3	1062.7	1063.3	1063.9	1064.6	1064.9	1064.6	1063.9
12°	1058.5	1058.2	1057.7	1056.9	1056.3	1056.9	1057.7	1058.2	1058.5	1058.2	1057.7
12.5°	1051.8	1051.5	1051.0	1050.2	1049.5	1050.2	1051.0	1051.5	1051.8	1051.5	1051.0
13°	1044.9	1044.6	1044.2	1043.5	1042.8	1043.5	1044.2	1044.6	1044.9	1044.6	1044.2
13.5°	1037.8	1037.5	1037.1	1036.5	1035.9	1036.5	1037.1	1037.5	1037.8	1037.5	1037.1
14°	1030.4	1030.3	1030.0	1029.4	1028.8	1029.4	1030.0	1030.3	1030.4	1030.3	1030.0
14.5°	1022.8	1022.7	1022.5	1021.9	1021.3	1021.9	1022.5	1022.7	1022.8	1022.7	1022.5
15°	1015.2	1015.2	1014.9	1014.6	1014.0	1014.6	1014.9	1015.2	1015.2	1015.2	1014.9
15.5°	1007.3	1007.3	1007.6	1007.3	1007.0	1007.3	1007.6	1007.3	1007.3	1007.3	1007.6
16°	999.7	999.8	1000.3	1000.2	999.8	1000.2	1000.3	999.8	999.7	999.8	1000.3
16.5°	992.1	992.4	993.0	993.0	992.8	993.0	993.0	992.4	992.1	992.4	993.0
17°	984.9	985.2	985.8	985.7	985.8	985.7	985.8	985.2	984.9	985.2	985.8
17.5°	977.9	978.2	978.7	978.5	978.4	978.5	978.7	978.2	977.9	978.2	978.7
18°	971.1	971.2	971.5	971.2	970.9	971.2	971.5	971.2	971.1	971.2	971.5
18.5°	963.8	963.8	963.8	963.5	963.0	963.5	963.8	963.8	963.8	963.8	963.8
19°	956.3	955.8	955.5	955.1	954.6	955.1	955.5	955.8	956.3	955.8	955.5
19.5°	948.1	947.5	946.6	946.3	945.8	946.3	946.6	947.5	948.1	947.5	946.6
20°	939.1	938.3	936.7	936.8	935.7	936.8	936.7	938.3	939.1	938.3	936.7
20.5°	929.2	928.0	926.0	926.6	925.4	926.6	926.0	928.0	929.2	928.0	926.0
21°	918.8	917.0	914.7	915.5	914.0	915.5	914.7	917.0	918.8	917.0	914.7



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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°	880.9	879.1	877.6	877.4	876.7	877.4	877.6	879.1	880.9	879.1	877.6
23°	866.5	865.0	864.6	863.6	863.3	863.6	864.6	865.0	866.5	865.0	864.6
23.5°	851.7	850.3	851.1	849.3	850.0	849.3	851.1	850.3	851.7	850.3	851.1
24°	836.3	835.3	837.1	834.7	836.0	834.7	837.1	835.3	836.3	835.3	837.1
24.5°	820.5	820.0	822.3	819.9	821.7	819.9	822.3	820.0	820.5	820.0	822.3
25°	803.9	804.2	806.9	805.1	806.5	805.1	806.9	804.2	803.9	804.2	806.9
25.5°	786.7	788.7	791.1	790.3	790.7	790.3	791.1	788.7	786.7	788.7	791.1
26°	769.0	772.5	774.8	775.0	773.8	775.0	774.8	772.5	769.0	772.5	774.8
26.5°	750.9	756.1	757.9	759.0	756.2	759.0	757.9	756.1	750.9	756.1	757.9
27°	733.3	739.0	740.9	742.5	738.4	742.5	740.9	739.0	733.3	739.0	740.9
27.5°	715.9	721.4	723.5	725.6	720.3	725.6	723.5	721.4	715.9	721.4	723.5
28°	698.5	703.7	705.8	708.0	702.2	708.0	705.8	703.7	698.5	703.7	705.8
28.5°	681.6	685.7	688.2	690.0	684.7	690.0	688.2	685.7	681.6	685.7	688.2
29°	664.9	667.6	670.5	671.7	668.1	671.7	670.5	667.6	664.9	667.6	670.5
29.5°	648.4	649.8	653.0	653.5	651.8	653.5	653.0	649.8	648.4	649.8	653.0
30°	632.0	631.5	635.0	635.2	635.4	635.2	635.0	631.5	632.0	631.5	635.0
30.5°	615.0	613.9	617.2	617.5	619.8	617.5	617.2	613.9	615.0	613.9	617.2
31°	598.1	595.8	599.3	599.9	603.4	599.9	599.3	595.8	598.1	595.8	599.3
31.5°	580.7	578.4	581.3	582.4	586.8	582.4	581.3	578.4	580.7	578.4	581.3
32°	563.0	560.9	563.5	565.2	569.7	565.2	563.5	560.9	563.0	560.9	563.5
32.5°	546.0	544.2	546.0	548.1	552.7	548.1	546.0	544.2	546.0	544.2	546.0
33°	528.8	527.4	528.0	531.1	535.3	531.1	528.0	527.4	528.8	527.4	528.0
33.5°	513.4	510.7	510.2	514.0	517.8	514.0	510.2	510.7	513.4	510.7	510.2
34°	496.8	493.9	492.5	497.3	501.2	497.3	492.5	493.9	496.8	493.9	492.5
34.5°	480.4	477.3	475.3	480.4	484.8	480.4	475.3	477.3	480.4	477.3	475.3
35°	463.8	461.2	459.0	464.1	468.8	464.1	459.0	461.2	463.8	461.2	459.0
35.5°	447.6	445.2	442.9	447.9	453.1	447.9	442.9	445.2	447.6	445.2	442.9
36°	431.8	429.2	427.2	432.4	437.7	432.4	427.2	429.2	431.8	429.2	427.2
36.5°	416.1	413.8	412.0	417.0	422.0	417.0	412.0	413.8	416.1	413.8	412.0
37°	400.3	398.6	397.1	402.1	406.5	402.1	397.1	398.6	400.3	398.6	397.1
37.5°	384.9	383.8	382.8	387.8	391.0	387.8	382.8	383.8	384.9	383.8	382.8
38°	369.7	369.5	369.1	373.8	375.6	373.8	369.1	369.5	369.7	369.5	369.1
38.5°	355.4	355.7	356.0	360.1	360.8	360.1	356.0	355.7	355.4	355.7	356.0
39°	341.5	342.3	342.9	346.8	346.7	346.8	342.9	342.3	341.5	342.3	342.9
39.5°	328.0	329.3	330.4	333.7	333.3	333.7	330.4	329.3	328.0	329.3	330.4
40°	315.0	316.5	318.4	321.1	320.5	321.1	318.4	316.5	315.0	316.5	318.4
40.5°	302.8	304.4	306.8	308.8	308.6	308.8	306.8	304.4	302.8	304.4	306.8
41°	291.1	292.6	295.8	297.2	297.7	297.2	295.8	292.6	291.1	292.6	295.8
41.5°	280.0	281.7	285.3	286.1	287.5	286.1	285.3	281.7	280.0	281.7	285.3
42°	269.6	271.3	275.3	275.7	277.6	275.7	275.3	271.3	269.6	271.3	275.3
42.5°	259.9	261.6	265.8	266.0	268.0	266.0	265.8	261.6	259.9	261.6	265.8
43°	250.6	252.4	256.5	256.9	258.7	256.9	256.5	252.4	250.6	252.4	256.5
43.5°	242.1	243.9	247.9	248.0	249.7	248.0	247.9	243.9	242.1	243.9	247.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	220.2	221.7	224.1	224.9	225.6	224.9	224.1	221.7	220.2	221.7	224.1
45.5°	213.8	215.0	217.3	218.0	218.6	218.0	217.3	215.0	213.8	215.0	217.3
46°	207.7	208.7	210.7	211.8	212.1	211.8	210.7	208.7	207.7	208.7	210.7
46.5°	202.0	203.0	204.5	205.7	206.0	205.7	204.5	203.0	202.0	203.0	204.5
47°	196.7	197.3	198.8	200.1	200.5	200.1	198.8	197.3	196.7	197.3	198.8
47.5°	191.7	192.1	193.5	194.9	195.5	194.9	193.5	192.1	191.7	192.1	193.5
48°	187.0	187.6	188.9	190.2	190.8	190.2	188.9	187.6	187.0	187.6	188.9
48.5°	183.2	183.5	184.5	185.7	186.2	185.7	184.5	183.5	183.2	183.5	184.5
49°	179.5	179.7	180.6	181.5	181.9	181.5	180.6	179.7	179.5	179.7	180.6
49.5°	176.0	176.2	176.8	177.5	177.7	177.5	176.8	176.2	176.0	176.2	176.8
50°	172.4	172.5	173.0	173.6	173.7	173.6	173.0	172.5	172.4	172.5	173.0
50.5°	168.7	168.8	169.2	169.8	169.8	169.8	169.2	168.8	168.7	168.8	169.2
51°	164.6	164.9	165.3	166.0	166.0	166.0	165.3	164.9	164.6	164.9	165.3
51.5°	160.6	160.8	161.4	162.1	162.3	162.1	161.4	160.8	160.6	160.8	161.4
52°	156.5	156.8	157.4	158.2	158.3	158.2	157.4	156.8	156.5	156.8	157.4
52.5°	152.4	152.7	153.5	154.1	154.4	154.1	153.5	152.7	152.4	152.7	153.5
53°	148.6	148.9	149.5	150.1	150.4	150.1	149.5	148.9	148.6	148.9	149.5
53.5°	144.6	144.9	145.6	146.3	146.6	146.3	145.6	144.9	144.6	144.9	145.6
54°	141.0	141.1	141.7	142.4	142.7	142.4	141.7	141.1	141.0	141.1	141.7
54.5°	137.3	137.5	138.1	138.7	139.0	138.7	138.1	137.5	137.3	137.5	138.1
55°	133.7	134.0	134.6	135.0	135.2	135.0	134.6	134.0	133.7	134.0	134.6
55.5°	130.2	130.5	131.1	131.5	131.7	131.5	131.1	130.5	130.2	130.5	131.1
56°	126.8	127.1	127.6	128.0	128.2	128.0	127.6	127.1	126.8	127.1	127.6
56.5°	123.5	123.8	124.2	124.7	124.8	124.7	124.2	123.8	123.5	123.8	124.2
57°	120.1	120.4	120.9	121.3	121.5	121.3	120.9	120.4	120.1	120.4	120.9
57.5°	116.8	117.2	117.7	118.0	118.3	118.0	117.7	117.2	116.8	117.2	117.7
58°	113.9	114.0	114.5	115.0	115.1	115.0	114.5	114.0	113.9	114.0	114.5
58.5°	110.8	111.0	111.4	111.8	111.9	111.8	111.4	111.0	110.8	111.0	111.4
59°	107.8	107.9	108.3	108.6	108.9	108.6	108.3	107.9	107.8	107.9	108.3
59.5°	104.8	104.9	105.2	105.7	105.8	105.7	105.2	104.9	104.8	104.9	105.2
60°	101.9	102.0	102.3	102.6	102.8	102.6	102.3	102.0	101.9	102.0	102.3
60.5°	99.0	99.1	99.4	99.7	99.9	99.7	99.4	99.1	99.0	99.1	99.4
61°	96.2	96.4	96.7	97.0	97.1	97.0	96.7	96.4	96.2	96.4	96.7
61.5°	93.5	93.6	93.9	94.2	94.4	94.2	93.9	93.6	93.5	93.6	93.9
62°	90.9	90.9	91.2	91.5	91.5	91.5	91.2	90.9	90.9	90.9	91.2
62.5°	88.2	88.3	88.5	88.8	88.9	88.8	88.5	88.3	88.2	88.3	88.5
63°	85.6	85.7	85.9	86.2	86.2	86.2	85.9	85.7	85.6	85.7	85.9
63.5°	83.0	83.1	83.3	83.6	83.7	83.6	83.3	83.1	83.0	83.1	83.3
64°	80.5	80.7	80.8	81.0	81.2	81.0	80.8	80.7	80.5	80.7	80.8
64.5°	78.1	78.3	78.4	78.6	78.7	78.6	78.4	78.3	78.1	78.3	78.4
65°	75.7	75.8	76.0	76.1	76.3	76.1	76.0	75.8	75.7	75.8	76.0
65.5°	73.4	73.4	73.5	73.8	73.8	73.8	73.5	73.4	73.4	73.4	73.5
66°	70.9	71.1	71.3	71.4	71.6	71.4	71.3	71.1	70.9	71.1	71.3



TEST NUMBER: P775915

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-1500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	64.3	64.4	64.6	64.7	64.7	64.7	64.6	64.4	64.3	64.4	64.6
68°	62.1	62.3	62.4	62.6	62.6	62.6	62.4	62.3	62.1	62.3	62.4
68.5°	60.0	60.1	60.3	60.3	60.4	60.3	60.3	60.1	60.0	60.1	60.3
69°	58.0	58.0	58.0	58.3	58.3	58.3	58.0	58.0	58.0	58.0	58.0
69.5°	55.9	56.0	56.0	56.2	56.3	56.2	56.0	56.0	55.9	56.0	56.0
70°	54.0	54.2	54.0	54.2	54.4	54.2	54.0	54.2	54.0	54.2	54.0
70.5°	52.1	52.2	52.2	52.2	52.4	52.2	52.2	52.2	52.1	52.2	52.2
71°	50.2	50.2	50.2	50.2	50.4	50.2	50.2	50.2	50.2	50.2	50.2
71.5°	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.3	48.3	48.3	48.4
72°	46.4	46.4	46.4	46.6	46.6	46.6	46.4	46.4	46.4	46.4	46.4
72.5°	44.6	44.6	44.6	44.8	44.8	44.8	44.6	44.6	44.6	44.6	44.6
73°	42.8	42.8	42.8	42.9	42.9	42.9	42.8	42.8	42.8	42.8	42.8
73.5°	41.0	41.0	41.1	41.1	41.1	41.1	41.1	41.0	41.0	41.0	41.1
74°	39.3	39.3	39.3	39.4	39.4	39.4	39.3	39.3	39.3	39.3	39.3
74.5°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
75°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
75.5°	34.3	34.3	34.3	34.3	34.4	34.3	34.3	34.3	34.3	34.3	34.3
76°	32.7	32.6	32.6	32.7	32.7	32.7	32.6	32.6	32.7	32.6	32.6
76.5°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
77°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
77.5°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
78°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
78.5°	25.1	25.1	25.0	25.0	25.1	25.0	25.0	25.1	25.1	25.1	25.0
79°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
79.5°	22.2	22.2	22.1	22.2	22.2	22.2	22.1	22.2	22.2	22.2	22.1
80°	20.9	20.9	20.7	20.7	20.7	20.7	20.7	20.9	20.9	20.9	20.7
80.5°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
81°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
81.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
82°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
82.5°	14.3	14.3	14.3	14.3	14.2	14.3	14.3	14.3	14.3	14.3	14.3
83°	13.1	13.1	13.1	12.9	12.9	12.9	13.1	13.1	13.1	13.1	13.1
83.5°	11.9	11.9	11.9	11.7	11.7	11.7	11.9	11.9	11.9	11.9	11.9
84°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
84.5°	9.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.6	9.4	9.4
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85.5°	7.3	7.2	7.3	7.2	7.3	7.2	7.3	7.2	7.3	7.2	7.3
86°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
86.5°	5.2	5.0	5.0	5.0	5.2	5.0	5.0	5.0	5.2	5.0	5.0
87°	4.1	4.1	4.1	4.0	4.1	4.0	4.1	4.1	4.1	4.1	4.1
87.5°	3.0	3.0	3.0	3.0	3.2	3.0	3.0	3.0	3.0	3.0	3.0
88°	2.0	2.1	2.1	2.3	2.3	2.3	2.1	2.1	2.0	2.1	2.1
88.5°	1.2	1.2	1.4	1.5	1.8	1.5	1.4	1.2	1.2	1.2	1.4



TEST NUMBER: P775915
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-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	0.2	0.3	0.5	0.3	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P775915

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
0.5°	<i>1136.4</i>	<i>1136.0</i>	<i>1136.4</i>	<i>1136.6</i>	<i>1136.9</i>	<i>1137.0</i>
1°	1136.1	1135.5	1136.1	1136.3	1136.4	1136.6
1.5°	1135.4	1134.9	1135.4	1135.7	1135.7	1136.0
2°	1134.4	1133.8	1134.4	1134.6	1134.9	1135.0
2.5°	1133.2	1132.5	1133.2	1133.4	1133.7	1134.0
3°	1131.5	1130.8	1131.5	1131.9	1132.2	1132.5
3.5°	1129.7	1129.3	1129.7	1130.0	1130.5	1130.8
4°	1127.7	1127.0	1127.7	1128.0	1128.7	1128.8
4.5°	1125.5	1124.5	1125.5	1125.8	1126.4	1126.7
5°	1123.2	1122.1	1123.2	1123.5	1124.1	1124.5
5.5°	1120.1	1119.2	1120.1	1120.4	1121.2	1122.3
6°	1116.9	1115.7	1116.9	1117.4	1118.1	1118.8
6.5°	1113.4	1112.2	1113.4	1113.9	1114.8	1115.3
7°	1109.8	1108.7	1109.8	1110.5	1111.0	1111.6
7.5°	1106.0	1104.9	1106.0	1106.3	1106.9	1107.5
8°	1101.6	1100.9	1101.6	1102.0	1102.6	1103.1
8.5°	1096.8	1096.2	1096.8	1097.3	1097.9	1098.5
9°	1092.0	1091.4	1092.0	1092.4	1093.2	1093.6
9.5°	1086.8	1086.2	1086.8	1087.2	1088.0	1088.3
10°	1081.3	1080.5	1081.3	1081.9	1082.5	1083.0
10.5°	1075.5	1074.9	1075.5	1076.0	1076.7	1077.0
11°	1069.6	1068.8	1069.6	1070.2	1070.8	1071.1
11.5°	1063.3	1062.7	1063.3	1063.9	1064.6	1064.9
12°	1056.9	1056.3	1056.9	1057.7	1058.2	1058.5
12.5°	1050.2	1049.5	1050.2	1051.0	1051.5	1051.8
13°	1043.5	1042.8	1043.5	1044.2	1044.6	1044.9
13.5°	1036.5	1035.9	1036.5	1037.1	1037.5	1037.8
14°	1029.4	1028.8	1029.4	1030.0	1030.3	1030.4
14.5°	1021.9	1021.3	1021.9	1022.5	1022.7	1022.8
15°	1014.6	1014.0	1014.6	1014.9	1015.2	1015.2
15.5°	1007.3	1007.0	1007.3	1007.6	1007.3	1007.3
16°	1000.2	999.8	1000.2	1000.3	999.8	999.7
16.5°	993.0	992.8	993.0	993.0	992.4	992.1
17°	985.7	985.8	985.7	985.8	985.2	984.9
17.5°	978.5	978.4	978.5	978.7	978.2	977.9
18°	971.2	970.9	971.2	971.5	971.2	971.1
18.5°	963.5	963.0	963.5	963.8	963.8	963.8
19°	955.1	954.6	955.1	955.5	955.8	956.3
19.5°	946.3	945.8	946.3	946.6	947.5	948.1
20°	936.8	935.7	936.8	936.7	938.3	939.1
20.5°	926.6	925.4	926.6	926.0	928.0	929.2
21°	915.5	914.0	915.5	914.7	917.0	918.8



TEST NUMBER: P775915

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	877.4	876.7	877.4	877.6	879.1	880.9
23°	863.6	863.3	863.6	864.6	865.0	866.5
23.5°	849.3	850.0	849.3	851.1	850.3	851.7
24°	834.7	836.0	834.7	837.1	835.3	836.3
24.5°	819.9	821.7	819.9	822.3	820.0	820.5
25°	805.1	806.5	805.1	806.9	804.2	803.9
25.5°	790.3	790.7	790.3	791.1	788.7	786.7
26°	775.0	773.8	775.0	774.8	772.5	769.0
26.5°	759.0	756.2	759.0	757.9	756.1	750.9
27°	742.5	738.4	742.5	740.9	739.0	733.3
27.5°	725.6	720.3	725.6	723.5	721.4	715.9
28°	708.0	702.2	708.0	705.8	703.7	698.5
28.5°	690.0	684.7	690.0	688.2	685.7	681.6
29°	671.7	668.1	671.7	670.5	667.6	664.9
29.5°	653.5	651.8	653.5	653.0	649.8	648.4
30°	635.2	635.4	635.2	635.0	631.5	632.0
30.5°	617.5	619.8	617.5	617.2	613.9	615.0
31°	599.9	603.4	599.9	599.3	595.8	598.1
31.5°	582.4	586.8	582.4	581.3	578.4	580.7
32°	565.2	569.7	565.2	563.5	560.9	563.0
32.5°	548.1	552.7	548.1	546.0	544.2	546.0
33°	531.1	535.3	531.1	528.0	527.4	528.8
33.5°	514.0	517.8	514.0	510.2	510.7	513.4
34°	497.3	501.2	497.3	492.5	493.9	496.8
34.5°	480.4	484.8	480.4	475.3	477.3	480.4
35°	464.1	468.8	464.1	459.0	461.2	463.8
35.5°	447.9	453.1	447.9	442.9	445.2	447.6
36°	432.4	437.7	432.4	427.2	429.2	431.8
36.5°	417.0	422.0	417.0	412.0	413.8	416.1
37°	402.1	406.5	402.1	397.1	398.6	400.3
37.5°	387.8	391.0	387.8	382.8	383.8	384.9
38°	373.8	375.6	373.8	369.1	369.5	369.7
38.5°	360.1	360.8	360.1	356.0	355.7	355.4
39°	346.8	346.7	346.8	342.9	342.3	341.5
39.5°	333.7	333.3	333.7	330.4	329.3	328.0
40°	321.1	320.5	321.1	318.4	316.5	315.0
40.5°	308.8	308.6	308.8	306.8	304.4	302.8
41°	297.2	297.7	297.2	295.8	292.6	291.1
41.5°	286.1	287.5	286.1	285.3	281.7	280.0
42°	275.7	277.6	275.7	275.3	271.3	269.6
42.5°	266.0	268.0	266.0	265.8	261.6	259.9
43°	256.9	258.7	256.9	256.5	252.4	250.6
43.5°	248.0	249.7	248.0	247.9	243.9	242.1



TEST NUMBER: P775915

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	224.9	225.6	224.9	224.1	221.7	220.2
45.5°	218.0	218.6	218.0	217.3	215.0	213.8
46°	211.8	212.1	211.8	210.7	208.7	207.7
46.5°	205.7	206.0	205.7	204.5	203.0	202.0
47°	200.1	200.5	200.1	198.8	197.3	196.7
47.5°	194.9	195.5	194.9	193.5	192.1	191.7
48°	190.2	190.8	190.2	188.9	187.6	187.0
48.5°	185.7	186.2	185.7	184.5	183.5	183.2
49°	181.5	181.9	181.5	180.6	179.7	179.5
49.5°	177.5	177.7	177.5	176.8	176.2	176.0
50°	173.6	173.7	173.6	173.0	172.5	172.4
50.5°	169.8	169.8	169.8	169.2	168.8	168.7
51°	166.0	166.0	166.0	165.3	164.9	164.6
51.5°	162.1	162.3	162.1	161.4	160.8	160.6
52°	158.2	158.3	158.2	157.4	156.8	156.5
52.5°	154.1	154.4	154.1	153.5	152.7	152.4
53°	150.1	150.4	150.1	149.5	148.9	148.6
53.5°	146.3	146.6	146.3	145.6	144.9	144.6
54°	142.4	142.7	142.4	141.7	141.1	141.0
54.5°	138.7	139.0	138.7	138.1	137.5	137.3
55°	135.0	135.2	135.0	134.6	134.0	133.7
55.5°	131.5	131.7	131.5	131.1	130.5	130.2
56°	128.0	128.2	128.0	127.6	127.1	126.8
56.5°	124.7	124.8	124.7	124.2	123.8	123.5
57°	121.3	121.5	121.3	120.9	120.4	120.1
57.5°	118.0	118.3	118.0	117.7	117.2	116.8
58°	115.0	115.1	115.0	114.5	114.0	113.9
58.5°	111.8	111.9	111.8	111.4	111.0	110.8
59°	108.6	108.9	108.6	108.3	107.9	107.8
59.5°	105.7	105.8	105.7	105.2	104.9	104.8
60°	102.6	102.8	102.6	102.3	102.0	101.9
60.5°	99.7	99.9	99.7	99.4	99.1	99.0
61°	97.0	97.1	97.0	96.7	96.4	96.2
61.5°	94.2	94.4	94.2	93.9	93.6	93.5
62°	91.5	91.5	91.5	91.2	90.9	90.9
62.5°	88.8	88.9	88.8	88.5	88.3	88.2
63°	86.2	86.2	86.2	85.9	85.7	85.6
63.5°	83.6	83.7	83.6	83.3	83.1	83.0
64°	81.0	81.2	81.0	80.8	80.7	80.5
64.5°	78.6	78.7	78.6	78.4	78.3	78.1
65°	76.1	76.3	76.1	76.0	75.8	75.7
65.5°	73.8	73.8	73.8	73.5	73.4	73.4
66°	71.4	71.6	71.4	71.3	71.1	70.9



TEST NUMBER: P775915

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-1500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	64.7	64.7	64.7	64.6	64.4	64.3
68°	62.6	62.6	62.6	62.4	62.3	62.1
68.5°	60.3	60.4	60.3	60.3	60.1	60.0
69°	58.3	58.3	58.3	58.0	58.0	58.0
69.5°	56.2	56.3	56.2	56.0	56.0	55.9
70°	54.2	54.4	54.2	54.0	54.2	54.0
70.5°	52.2	52.4	52.2	52.2	52.2	52.1
71°	50.2	50.4	50.2	50.2	50.2	50.2
71.5°	48.4	48.4	48.4	48.4	48.3	48.3
72°	46.6	46.6	46.6	46.4	46.4	46.4
72.5°	44.8	44.8	44.8	44.6	44.6	44.6
73°	42.9	42.9	42.9	42.8	42.8	42.8
73.5°	41.1	41.1	41.1	41.1	41.0	41.0
74°	39.4	39.4	39.4	39.3	39.3	39.3
74.5°	37.6	37.6	37.6	37.6	37.6	37.6
75°	35.9	35.9	35.9	35.9	35.9	35.9
75.5°	34.3	34.4	34.3	34.3	34.3	34.3
76°	32.7	32.7	32.7	32.6	32.6	32.7
76.5°	31.1	31.1	31.1	31.1	31.1	31.1
77°	29.5	29.5	29.5	29.5	29.5	29.5
77.5°	28.0	28.0	28.0	28.0	28.0	28.0
78°	26.5	26.5	26.5	26.5	26.5	26.5
78.5°	25.0	25.1	25.0	25.0	25.1	25.1
79°	23.6	23.6	23.6	23.6	23.6	23.6
79.5°	22.2	22.2	22.2	22.1	22.2	22.2
80°	20.7	20.7	20.7	20.7	20.9	20.9
80.5°	19.5	19.5	19.5	19.5	19.5	19.5
81°	18.1	18.1	18.1	18.1	18.1	18.1
81.5°	16.7	16.7	16.7	16.7	16.7	16.7
82°	15.5	15.5	15.5	15.5	15.5	15.5
82.5°	14.3	14.2	14.3	14.3	14.3	14.3
83°	12.9	12.9	12.9	13.1	13.1	13.1
83.5°	11.7	11.7	11.7	11.9	11.9	11.9
84°	10.7	10.7	10.7	10.7	10.7	10.7
84.5°	9.4	9.4	9.4	9.4	9.4	9.6
85°	8.4	8.4	8.4	8.4	8.4	8.4
85.5°	7.2	7.3	7.2	7.3	7.2	7.3
86°	6.1	6.1	6.1	6.1	6.1	6.1
86.5°	5.0	5.2	5.0	5.0	5.0	5.2
87°	4.0	4.1	4.0	4.1	4.1	4.1
87.5°	3.0	3.2	3.0	3.0	3.0	3.0
88°	2.3	2.3	2.3	2.1	2.1	2.0
88.5°	1.5	1.8	1.5	1.4	1.2	1.2



TEST NUMBER: P775915
CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-1500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.5	0.3	0.2	0.0	0.0



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Scaled Data Report





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

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21.5°	906.8	905.3	902.7	903.5	901.9	903.5	902.7	905.3	906.8	905.3	902.7
22°	894.2	892.7	890.4	890.7	889.2	890.7	890.4	892.7	894.2	892.7	890.4



44°	234.2	236.0	239.5	239.8	241.3	239.8	239.5	236.0	234.2	236.0	239.5
44.5°	226.9	228.7	231.7	232.2	233.3	232.2	231.7	228.7	226.9	228.7	231.7



66.5°	68.7	68.8	69.0	69.1	69.3	69.1	69.0	68.8	68.7	68.8	69.0
67°	66.5	66.5	66.7	66.8	67.0	66.8	66.7	66.5	66.5	66.5	66.7



89°	0.5	0.6	0.9	1.1	1.2	1.1	0.9	0.6	0.5	0.6	0.9
89.5°	0.0	0.2	0.5	0.6	0.8	0.6	0.5	0.2	0.0	0.2	0.5

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21.5°	903.5	901.9	903.5	902.7	905.3	906.8
22°	890.7	889.2	890.7	890.4	892.7	894.2



44°	239.8	241.3	239.8	239.5	236.0	234.2
44.5°	232.2	233.3	232.2	231.7	228.7	226.9



66.5°	69.1	69.3	69.1	69.0	68.8	68.7
67°	66.8	67.0	66.8	66.7	66.5	66.5



89°	1.1	1.2	1.1	0.9	0.6	0.5
89.5°	0.6	0.8	0.6	0.5	0.2	0.0

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(END OF REPORT)