

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: P775754

Luminaire Tested: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B061)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K  
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

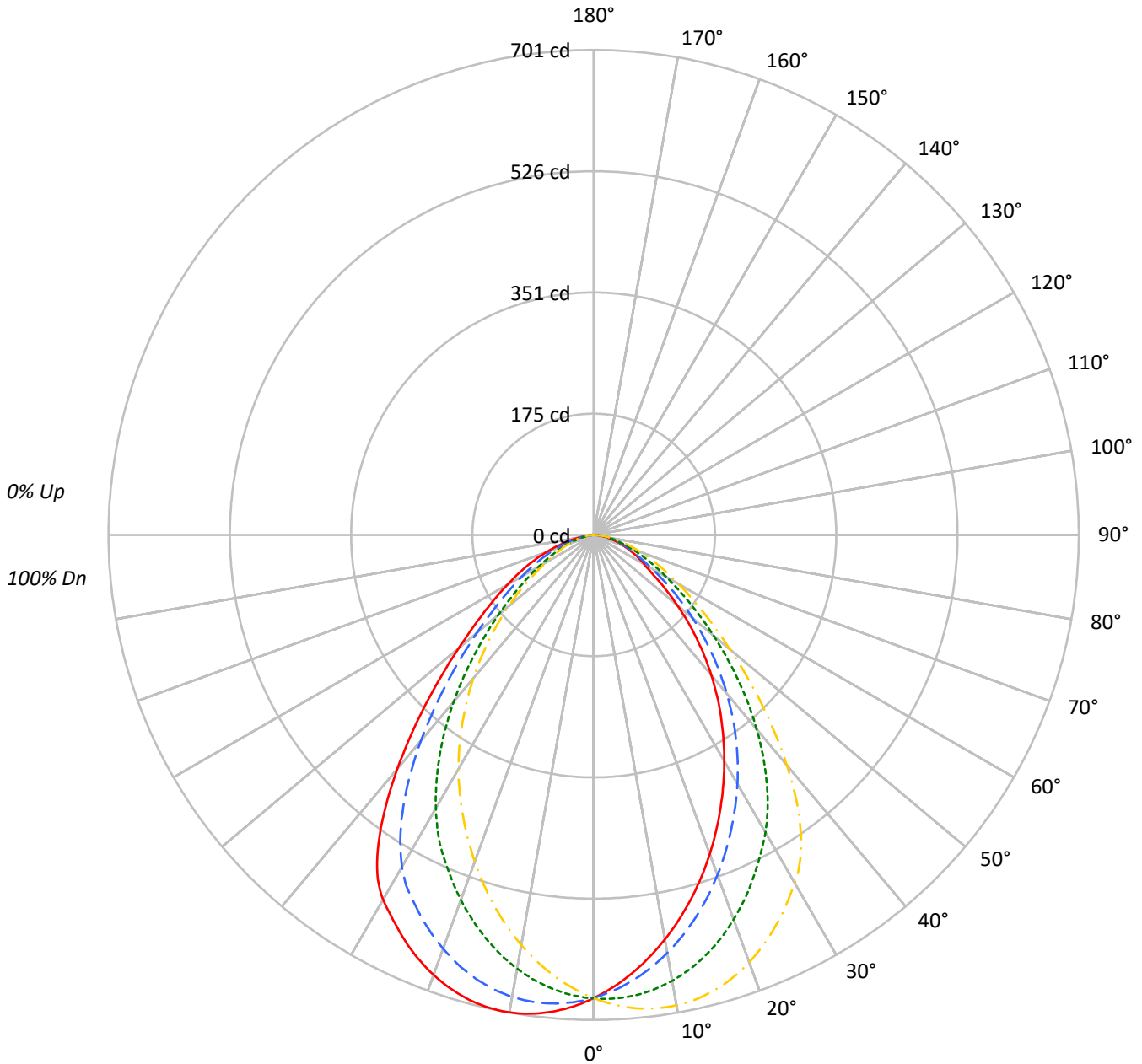
Lumens per Lamp: N/A  
Luminaire Lumens: 1215.5 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48																			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	36702	36702	36702	36702
5°	34999	36782	38075	36281
10°	33038	36422	39011	35442
15°	30897	35653	39478	34240
20°	28621	34501	39478	32740
25°	26264	33044	39087	31048
30°	23883	31416	38525	28878
35°	21456	29165	36225	25939
40°	18928	26228	31566	22514
45°	16226	22809	26352	18793
50°	13415	19257	21731	15300
55°	10819	15980	18293	12377
60°	9199	13256	15799	10065
65°	8354	11156	13815	8172
70°	7421	9361	11685	6524
75°	6503	7900	9277	5126
80°	5398	6819	6251	3852
85°	3334	6542	2201	2139

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 26910 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	5.2
10°-20°	173.6	14.3
20°-30°	245.9	20.2
30°-40°	262.0	21.6
40°-50°	210.3	17.3
50°-60°	136.5	11.2
60°-70°	79.2	6.5
70°-80°	37.2	3.1
80°-90°	8.1	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°	482.3	39.7
0°-40°	744.2	61.2
0°-60°	1091.0	89.8
0°-90°	1215.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1215.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	670	670	670	670	670	
5°	636	668	692	659	636	59
15°	544	628	696	603	544	152
25°	434	546	646	513	434	199
35°	321	436	541	388	321	200
45°	209	294	340	242	209	161
55°	113	167	191	130	113	103
65°	64	86	106	63	64	64
75°	31	37	44	24	31	33
85°	5	10	4	3	5	7
90°	0	2	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°	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5
0.5°	666.7	666.7	667.4	668.6	670.5	671.2	671.8	672.1	672.5	671.6	670.9
1°	663.7	664.1	665.6	667.8	670.8	672.5	674.0	674.8	675.0	674.0	672.4
1.5°	660.6	661.5	663.5	666.8	670.9	673.7	676.0	677.3	677.6	676.1	673.7
2°	657.4	658.6	661.5	665.6	671.0	674.8	677.9	679.6	679.9	678.1	675.0
2.5°	654.0	655.6	659.2	664.4	670.8	675.7	679.7	681.8	682.3	680.0	676.2
3°	650.6	652.6	656.9	663.1	670.5	676.5	681.3	684.0	684.4	681.8	677.1
3.5°	647.2	649.4	654.4	661.6	670.2	677.1	682.8	686.0	686.5	683.4	678.1
4°	643.6	646.2	651.9	660.0	669.8	677.8	684.2	687.9	688.3	685.0	678.7
4.5°	639.8	642.9	649.2	658.3	669.2	678.2	685.5	689.6	690.2	686.4	679.5
5°	636.0	639.4	646.4	656.4	668.4	678.4	686.6	691.3	691.9	687.7	679.9
5.5°	632.2	635.9	643.6	654.5	667.6	678.6	687.6	692.8	693.4	688.9	680.3
6°	628.1	632.3	640.7	652.4	666.6	678.6	688.4	694.1	694.7	689.8	680.6
6.5°	624.1	628.5	637.6	650.3	665.4	678.5	689.2	695.3	696.0	690.8	680.7
7°	619.9	624.7	634.4	647.9	664.2	678.3	689.7	696.3	697.1	691.4	680.7
7.5°	615.7	620.8	631.2	645.5	662.9	678.0	690.2	697.3	698.0	692.1	680.6
8°	611.5	616.8	627.8	643.0	661.4	677.5	690.5	698.0	698.9	692.5	680.3
8.5°	607.0	612.8	624.3	640.5	659.8	676.8	690.7	698.8	699.5	692.8	679.9
9°	602.6	608.5	620.8	637.7	658.1	676.1	690.7	699.2	700.2	693.0	679.4
9.5°	598.0	604.2	617.1	634.8	656.3	675.2	690.6	699.6	700.5	693.1	678.7
10°	593.5	600.1	613.4	631.8	654.3	674.2	690.4	699.9	700.8	693.0	678.0
10.5°	588.8	595.8	609.6	628.9	652.2	673.1	690.0	700.0	700.9	692.7	677.0
11°	584.2	591.3	605.6	625.7	650.1	671.8	689.5	699.9	700.9	692.4	676.0
11.5°	579.3	586.7	601.6	622.5	647.6	670.4	688.9	699.6	700.7	691.9	674.7
12°	574.5	582.3	597.5	619.0	645.3	668.8	688.1	699.3	700.4	691.2	673.4
12.5°	569.6	577.5	593.4	615.5	642.8	667.2	687.2	698.8	700.0	690.5	672.0
13°	564.7	573.0	589.2	612.0	640.2	665.4	686.1	698.1	699.3	689.5	670.4
13.5°	559.6	568.2	584.8	608.5	637.3	663.5	684.8	697.4	698.6	688.6	668.7
14°	554.7	563.4	580.5	604.8	634.4	661.5	683.5	696.4	697.7	687.4	666.9
14.5°	549.4	558.4	576.1	600.8	631.4	659.2	682.1	695.4	696.8	686.0	665.0
15°	544.4	553.6	571.5	597.0	628.2	656.9	680.5	694.2	695.6	684.5	663.0
15.5°	539.0	548.5	566.8	592.8	625.1	654.5	678.7	692.8	694.2	682.9	660.7
16°	533.9	543.5	562.3	588.9	621.7	652.0	676.8	691.3	692.8	681.2	658.5
16.5°	528.6	538.3	557.6	584.6	618.3	649.3	674.8	689.7	691.2	679.4	656.1
17°	523.3	533.3	552.8	580.4	614.7	646.6	672.7	687.9	689.5	677.5	653.7
17.5°	517.9	528.1	547.9	576.0	611.2	643.7	670.4	686.1	687.7	675.3	651.0
18°	512.6	523.0	543.1	571.6	607.3	640.5	668.0	684.0	685.8	673.2	648.3
18.5°	507.0	517.7	538.1	567.0	603.5	637.4	665.4	681.8	683.7	670.9	645.4
19°	501.7	512.4	533.2	562.4	599.5	634.2	662.9	679.6	681.4	668.4	642.5
19.5°	496.1	507.0	528.1	557.9	595.6	630.9	660.1	677.3	679.1	665.8	639.5
20°	490.6	501.8	523.1	553.3	591.4	627.5	657.2	674.7	676.7	663.3	636.4
20.5°	484.9	496.3	518.0	548.4	587.3	623.8	654.2	672.0	674.1	660.5	633.1
21°	479.5	490.9	512.8	543.7	582.9	620.2	651.1	669.4	671.4	657.5	629.8



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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°	462.6	474.5	497.0	528.9	569.9	608.7	641.4	660.5	662.8	648.5	619.4
23°	456.9	468.8	491.7	523.9	565.2	604.7	637.9	657.4	659.7	645.2	615.6
23.5°	451.4	463.4	486.4	518.7	560.6	600.7	634.3	654.0	656.5	641.9	611.9
24°	445.7	457.8	481.0	513.7	555.8	596.3	630.7	650.7	653.2	638.3	608.1
24.5°	440.0	452.2	475.6	508.5	551.1	592.2	626.9	647.2	649.8	634.8	604.1
25°	434.2	446.7	470.2	503.3	546.3	587.9	623.0	643.8	646.2	631.2	600.0
25.5°	428.5	440.9	464.8	497.9	541.5	583.4	619.2	640.1	642.7	627.5	596.0
26°	422.9	435.4	459.2	492.8	536.5	579.1	615.2	636.3	639.0	623.6	592.0
26.5°	417.2	429.7	453.9	487.7	531.7	574.6	611.1	632.4	635.1	619.8	587.9
27°	411.5	424.3	448.5	482.4	526.6	570.0	606.8	628.6	631.3	615.9	584.1
27.5°	405.7	418.6	443.0	477.1	521.7	565.3	602.6	624.5	627.5	612.2	580.0
28°	400.0	412.8	437.5	471.8	516.6	560.6	598.4	620.5	623.6	608.5	575.7
28.5°	394.4	407.1	432.1	466.6	511.7	555.9	594.0	616.5	620.0	604.9	570.8
29°	388.7	401.6	426.5	461.2	506.6	551.2	589.6	612.5	616.5	600.8	565.4
29.5°	382.9	395.9	421.0	455.7	501.6	546.8	585.5	608.7	612.7	596.3	559.9
30°	377.3	390.3	415.4	450.4	496.3	541.9	581.3	604.9	608.6	591.3	554.0
30.5°	371.6	384.6	409.8	444.9	491.0	537.0	576.7	600.7	604.2	585.8	547.8
31°	365.9	379.0	404.2	439.0	485.5	531.7	572.1	596.3	599.3	579.9	541.1
31.5°	360.2	373.4	398.5	433.5	479.7	526.3	567.0	591.2	593.9	573.7	534.3
32°	354.5	367.6	392.8	427.6	474.0	520.4	561.5	585.9	588.0	567.0	527.4
32.5°	348.8	361.9	387.2	421.7	467.9	514.3	555.5	580.1	581.5	559.9	520.0
33°	343.3	356.3	381.3	415.9	461.6	508.0	549.5	574.0	574.5	552.2	512.3
33.5°	337.6	350.6	375.7	409.8	455.4	501.6	542.9	567.0	566.8	544.1	504.4
34°	332.0	344.9	369.8	403.7	448.9	495.0	536.2	559.7	558.6	535.9	496.6
34.5°	326.3	339.3	364.1	397.4	442.4	488.2	529.1	551.8	550.3	527.3	488.0
35°	320.6	333.6	358.2	391.2	435.8	481.1	521.5	543.5	541.3	518.4	479.6
35.5°	315.1	327.9	352.3	384.9	429.1	474.1	513.7	534.9	532.2	509.1	471.0
36°	309.6	322.3	346.5	378.7	422.4	466.8	505.7	526.1	522.8	499.8	462.1
36.5°	303.9	316.6	340.6	372.3	415.5	459.5	497.4	516.8	513.0	490.4	453.2
37°	298.2	310.8	334.6	366.0	408.7	451.9	489.0	507.3	503.0	480.6	443.9
37.5°	292.6	305.1	328.8	359.7	401.8	444.1	480.1	497.7	492.9	470.7	434.6
38°	287.0	299.5	322.7	353.3	394.6	436.8	471.3	488.1	482.7	460.5	425.3
38.5°	281.3	293.8	316.9	346.9	387.8	428.5	462.3	478.2	472.5	450.7	416.1
39°	275.8	288.0	311.1	340.6	380.7	420.7	453.3	468.2	461.9	440.4	406.7
39.5°	270.1	282.5	305.1	334.1	373.6	412.6	443.9	458.0	451.6	430.4	397.4
40°	264.5	276.9	299.0	327.7	366.5	404.7	434.5	447.7	441.1	420.1	387.7
40.5°	258.9	271.2	293.3	321.3	359.1	395.9	425.2	437.5	430.7	410.2	378.3
41°	253.3	265.6	287.3	314.9	352.0	387.8	415.9	427.3	420.2	399.8	369.0
41.5°	247.7	260.1	281.4	308.5	344.8	379.5	406.5	416.8	409.7	390.0	359.7
42°	242.1	254.5	275.6	302.0	337.6	371.5	396.8	406.6	399.4	379.6	350.2
42.5°	236.7	249.0	269.8	295.7	330.4	362.8	387.4	396.6	389.3	369.9	341.2
43°	231.1	243.5	264.0	289.1	323.0	354.6	378.0	386.5	379.1	359.9	332.0
43.5°	225.6	237.9	258.2	283.1	315.8	346.0	368.7	376.6	369.1	350.3	322.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	209.3	221.5	240.9	264.1	294.2	321.3	341.0	347.1	339.9	321.9	296.7
45.5°	203.8	216.2	235.3	258.2	287.0	313.0	332.0	337.9	330.4	312.9	288.3
46°	198.6	210.9	229.7	252.0	280.0	304.9	323.1	328.6	321.2	303.8	279.9
46.5°	193.3	205.5	224.1	245.8	272.9	297.0	314.4	319.7	312.0	295.1	271.7
47°	187.9	200.3	218.5	239.5	265.9	289.1	305.4	310.4	303.2	286.6	263.7
47.5°	182.7	195.0	213.1	233.8	258.9	281.1	297.0	301.9	294.5	278.1	256.1
48°	177.5	189.8	207.7	227.8	252.2	273.4	288.8	293.4	286.2	270.0	248.4
48.5°	172.4	184.6	202.2	222.1	245.4	266.0	280.6	285.3	278.1	262.1	241.0
49°	167.4	179.5	197.0	216.0	238.8	258.6	272.7	276.9	270.0	254.6	233.7
49.5°	162.4	174.5	191.7	210.3	232.2	251.1	264.9	269.2	262.5	247.0	226.7
50°	157.3	169.4	186.3	204.6	225.8	243.9	257.2	261.4	254.8	239.8	219.9
50.5°	152.6	164.3	181.2	198.9	219.2	236.9	249.7	254.0	247.4	232.6	213.3
51°	147.8	159.5	176.1	193.4	213.0	229.9	242.6	246.7	240.3	225.8	206.8
51.5°	143.1	154.7	171.0	187.7	207.1	223.2	235.7	239.6	233.6	219.3	200.6
52°	138.5	150.0	166.1	182.3	200.9	216.5	228.7	232.8	226.9	213.0	194.7
52.5°	134.0	145.2	161.1	177.0	194.9	209.9	222.1	226.4	220.5	206.8	188.7
53°	129.6	140.6	156.3	171.6	189.1	203.7	215.6	219.8	214.3	200.7	183.0
53.5°	125.3	136.0	151.3	166.5	183.4	197.5	209.4	213.6	208.1	195.1	177.6
54°	121.2	131.8	146.7	161.4	177.9	191.6	203.3	207.6	202.3	189.5	172.2
54.5°	117.2	127.5	142.2	156.4	172.4	185.7	197.2	201.7	196.7	184.1	167.0
55°	113.2	123.2	137.6	151.5	167.2	180.1	191.7	196.0	191.4	179.0	162.0
55.5°	109.4	119.2	133.1	146.8	161.9	174.6	185.9	190.5	185.9	173.8	157.2
56°	105.9	115.1	128.9	142.0	156.8	169.3	180.5	185.1	180.7	169.1	152.6
56.5°	102.3	111.2	124.5	137.5	151.9	164.1	175.2	179.7	175.7	164.2	147.9
57°	99.0	107.6	120.2	133.0	147.0	159.1	169.9	174.7	170.9	159.6	143.5
57.5°	95.8	103.8	116.0	128.6	142.4	154.0	165.0	169.7	166.1	155.0	139.1
58°	93.1	100.3	112.1	124.4	137.8	149.5	160.1	165.0	161.5	150.7	135.1
58.5°	90.3	96.8	108.2	120.2	133.5	144.9	155.4	160.3	157.0	146.4	130.9
59°	87.8	93.7	104.4	116.3	129.2	140.3	150.8	155.7	152.6	142.1	126.9
59.5°	85.6	90.6	100.6	112.3	124.9	135.8	146.2	151.3	148.3	138.1	123.0
60°	83.9	87.7	97.2	108.4	120.9	131.5	141.8	146.9	144.1	134.2	119.3
60.5°	82.1	85.0	93.7	104.8	116.9	127.4	137.6	142.6	140.1	130.1	115.6
61°	80.2	82.7	90.4	101.2	113.1	123.3	133.5	138.5	135.9	126.2	111.9
61.5°	78.2	80.6	87.3	97.5	109.4	119.4	129.4	134.4	132.1	122.6	108.3
62°	76.2	78.9	84.3	94.2	105.8	115.7	125.4	130.5	128.4	119.0	104.9
62.5°	74.2	77.0	81.3	90.8	102.1	111.8	121.4	126.5	124.5	115.2	101.4
63°	72.2	75.0	78.7	87.6	98.7	108.1	117.6	122.7	120.7	111.6	98.1
63.5°	70.3	73.1	75.9	84.4	95.3	104.7	113.9	118.9	117.1	108.1	94.8
64°	68.2	71.2	73.3	81.6	92.2	101.2	110.2	115.2	113.5	104.8	91.7
64.5°	66.3	69.2	70.9	78.6	89.1	97.9	106.6	111.7	109.9	101.3	88.6
65°	64.4	67.4	68.7	75.7	86.0	94.5	103.2	108.2	106.5	98.1	85.5
65.5°	62.5	65.6	66.4	72.9	82.9	91.4	99.8	104.7	103.0	94.7	82.4
66°	60.6	63.6	64.3	70.3	79.7	88.3	96.4	101.2	99.5	91.5	79.3





TEST NUMBER: P775754

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	55.0	58.1	58.5	62.6	71.4	78.9	86.9	91.4	89.3	82.0	70.7
68°	53.3	56.3	56.8	60.3	68.7	76.0	83.8	88.2	86.0	78.8	67.8
68.5°	51.5	54.5	55.1	58.0	66.0	73.1	80.6	85.0	82.7	75.6	65.1
69°	49.8	52.8	53.5	55.8	63.4	70.3	77.6	81.8	79.3	72.5	62.5
69.5°	48.0	51.1	51.9	53.6	60.9	67.6	74.5	78.5	76.1	69.5	59.8
70°	46.3	49.4	50.3	51.6	58.4	64.8	71.6	75.5	72.9	66.4	57.1
70.5°	44.6	47.7	48.7	49.6	56.1	62.3	68.9	72.4	69.8	63.5	54.7
71°	43.0	45.9	47.1	47.7	53.7	59.7	66.1	69.5	66.7	60.8	52.2
71.5°	41.4	44.3	45.6	45.7	51.5	57.2	63.3	66.4	63.6	57.9	49.7
72°	39.8	42.7	44.0	44.0	49.3	54.8	60.7	63.6	60.7	55.1	47.3
72.5°	38.5	41.1	42.5	42.2	47.1	52.3	58.0	60.8	57.8	52.3	45.0
73°	36.9	39.6	41.0	40.6	45.1	50.1	55.4	58.0	54.9	49.7	42.6
73.5°	35.4	38.5	39.6	39.0	43.1	47.8	52.9	55.3	51.9	47.1	40.4
74°	33.8	37.0	38.7	37.5	41.1	45.6	50.4	52.7	49.3	44.6	38.2
74.5°	32.2	35.4	37.1	36.0	39.2	43.4	48.1	50.0	46.5	42.0	36.0
75°	30.7	33.8	35.6	34.6	37.3	41.3	45.7	47.4	43.8	39.6	33.9
75.5°	29.3	32.2	34.1	33.2	35.5	39.2	43.4	45.0	41.1	37.2	31.9
76°	27.8	30.7	32.5	31.8	33.8	37.3	41.0	42.5	38.5	34.9	29.8
76.5°	26.4	29.3	31.1	30.4	32.1	35.3	38.8	40.1	36.0	32.6	27.8
77°	25.1	27.8	29.7	29.1	30.5	33.4	36.7	37.7	33.6	30.4	26.0
77.5°	23.7	26.4	28.5	27.8	28.8	31.6	34.5	35.5	31.1	28.3	24.1
78°	22.3	25.1	27.1	26.7	27.3	29.7	32.5	33.4	28.8	26.1	22.4
78.5°	21.0	23.7	25.8	25.4	25.8	28.0	30.5	31.1	26.4	24.1	20.6
79°	19.6	22.4	24.5	24.2	24.4	26.3	28.6	29.0	24.2	22.2	18.9
79.5°	18.3	21.0	23.2	23.0	22.9	24.7	26.7	27.1	22.0	20.3	17.3
80°	17.1	19.7	22.0	21.9	21.6	23.1	24.8	25.1	19.8	18.3	15.7
80.5°	15.9	18.4	20.7	20.8	20.4	21.6	23.0	23.1	17.8	16.6	14.2
81°	14.6	17.2	19.5	19.6	19.1	20.1	21.3	21.2	15.8	14.9	12.7
81.5°	13.3	15.9	18.2	18.4	17.9	18.7	19.6	19.3	13.9	13.2	11.3
82°	12.2	14.7	17.1	17.4	16.7	17.3	17.9	17.4	12.0	11.7	10.1
82.5°	11.0	13.4	15.9	16.2	15.6	15.9	16.3	15.6	10.6	10.3	8.8
83°	9.8	12.3	14.7	15.1	14.5	14.7	14.8	13.9	9.1	9.0	7.7
83.5°	8.7	11.1	13.5	14.1	13.4	13.4	13.4	12.3	7.6	7.6	6.5
84°	7.6	9.9	12.5	13.0	12.4	12.2	11.9	10.8	6.1	6.2	5.2
84.5°	6.4	8.7	11.4	12.0	11.4	11.1	10.8	9.3	4.6	4.8	4.4
85°	5.3	7.6	10.3	11.0	10.4	10.0	9.6	7.9	3.5	3.7	3.4
85.5°	4.3	6.5	9.3	9.9	9.5	9.0	8.3	6.4	2.8	2.8	2.7
86°	3.6	5.4	8.3	9.0	8.5	8.0	7.1	5.0	2.1	2.0	1.9
86.5°	3.0	4.6	7.2	7.9	7.7	6.9	5.9	3.9	1.7	1.4	1.3
87°	2.3	3.8	6.3	6.9	6.7	5.9	4.9	3.1	1.3	0.9	0.7
87.5°	1.6	3.2	5.3	6.0	5.9	5.0	3.9	2.2	1.0	0.4	0.3
88°	1.2	2.5	4.4	5.0	5.0	4.1	3.1	1.5	0.6	0.2	0.1
88.5°	0.6	1.8	3.6	4.1	4.1	3.3	2.2	1.0	0.3	0.1	0.0



TEST NUMBER: P775754

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	1.1	1.5	1.6	1.1	0.4	0.1	0.0	0.0	0.0



TEST NUMBER: P775754

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	669.5	669.5	669.5	669.5	669.5	669.5
0.5°	670.0	669.6	668.2	667.2	666.6	666.7
1°	670.5	668.9	666.5	664.7	663.6	663.7
1.5°	671.0	668.2	664.7	662.0	660.5	660.6
2°	671.2	667.2	662.8	659.3	657.3	657.4
2.5°	671.4	666.3	660.7	656.5	654.1	654.0
3°	671.4	665.1	658.6	653.6	650.7	650.6
3.5°	671.2	663.8	656.4	650.5	647.2	647.2
4°	671.0	662.4	653.9	647.4	643.7	643.6
4.5°	670.6	660.9	651.5	644.1	640.1	639.8
5°	670.1	659.3	648.8	640.8	636.2	636.0
5.5°	669.5	657.6	646.1	637.3	632.3	632.2
6°	668.7	655.7	643.4	633.8	628.4	628.1
6.5°	667.9	653.8	640.4	630.0	624.4	624.1
7°	666.9	651.7	637.4	626.3	620.2	619.9
7.5°	665.7	649.4	634.2	622.5	616.0	615.7
8°	664.5	647.1	630.9	618.5	611.7	611.5
8.5°	663.1	644.6	627.6	614.5	607.3	607.0
9°	661.7	642.1	624.1	610.4	603.0	602.6
9.5°	660.1	639.4	620.5	606.2	598.3	598.0
10°	658.4	636.7	616.9	601.9	593.8	593.5
10.5°	656.5	633.8	613.2	597.5	589.1	588.8
11°	654.5	630.8	609.2	593.0	584.4	584.2
11.5°	652.4	627.7	605.3	588.6	579.6	579.3
12°	650.2	624.5	601.4	584.0	574.7	574.5
12.5°	647.9	621.3	597.2	579.3	569.8	569.6
13°	645.5	617.8	593.0	574.5	564.8	564.7
13.5°	643.0	614.3	588.8	569.7	559.9	559.6
14°	640.3	610.7	584.4	564.9	554.8	554.7
14.5°	637.5	607.1	580.0	560.0	549.6	549.4
15°	634.6	603.3	575.6	555.0	544.4	544.4
15.5°	631.6	599.4	571.0	550.0	539.1	539.0
16°	628.6	595.5	566.2	544.9	533.9	533.9
16.5°	625.3	591.4	561.5	539.7	528.6	528.6
17°	622.1	587.4	556.7	534.5	523.2	523.3
17.5°	618.7	583.2	551.9	529.3	517.9	517.9
18°	615.2	578.9	547.0	524.1	512.3	512.6
18.5°	611.7	574.6	542.0	518.6	507.0	507.0
19°	608.1	570.1	537.1	513.3	501.5	501.7
19.5°	604.4	565.7	532.0	508.0	495.9	496.1
20°	600.5	561.2	526.9	502.5	490.4	490.6
20.5°	596.7	556.6	521.8	497.1	484.7	484.9
21°	592.6	551.9	516.6	491.4	479.2	479.5

TEST NUMBER: P775754

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	580.2	537.5	500.8	475.0	462.2	462.6
23°	576.0	532.7	495.6	469.4	456.6	456.9
23.5°	571.6	527.8	490.3	463.8	450.9	451.4
24°	567.2	523.0	485.0	458.4	445.2	445.7
24.5°	562.8	518.1	479.8	452.9	439.5	440.0
25°	558.4	513.3	474.6	447.0	433.9	434.2
25.5°	554.0	508.3	469.1	441.8	428.2	428.5
26°	549.6	503.4	463.8	435.9	422.6	422.9
26.5°	545.2	498.3	458.5	430.6	416.8	417.2
27°	540.5	492.7	453.0	424.9	411.1	411.5
27.5°	535.4	486.8	447.1	419.4	405.4	405.7
28°	529.8	481.0	441.2	413.5	399.8	400.0
28.5°	524.1	474.8	435.3	408.0	394.1	394.4
29°	518.2	468.8	429.3	402.2	388.4	388.7
29.5°	512.1	462.6	423.3	396.5	382.7	382.9
30°	505.6	456.2	417.1	390.3	377.2	377.3
30.5°	499.1	449.7	411.0	384.7	371.5	371.6
31°	492.4	443.2	404.6	378.7	365.7	365.9
31.5°	485.6	436.4	398.2	372.7	360.0	360.2
32°	478.4	429.6	391.8	366.5	354.2	354.5
32.5°	471.3	422.7	385.4	360.7	348.5	348.8
33°	464.0	415.9	378.9	354.7	342.8	343.3
33.5°	456.7	408.8	372.3	348.6	337.1	337.6
34°	449.0	401.9	365.9	342.5	331.3	332.0
34.5°	441.2	394.4	359.1	336.4	325.5	326.3
35°	433.6	387.6	352.8	330.4	319.7	320.6
35.5°	425.8	380.3	346.0	324.3	314.1	315.1
36°	417.9	373.1	339.7	318.2	308.3	309.6
36.5°	409.7	365.9	333.1	312.2	302.5	303.9
37°	401.4	358.6	326.7	306.2	296.8	298.2
37.5°	393.2	351.4	320.0	300.3	291.1	292.6
38°	384.8	343.9	313.7	294.1	285.3	287.0
38.5°	376.5	336.5	307.1	288.2	279.6	281.3
39°	368.1	329.3	300.6	282.3	273.9	275.8
39.5°	359.7	322.1	294.0	276.3	268.2	270.1
40°	351.3	314.6	287.5	270.1	262.6	264.5
40.5°	342.8	307.2	280.9	264.1	256.9	258.9
41°	334.5	299.9	274.3	258.1	251.4	253.3
41.5°	326.0	292.6	267.8	252.2	245.7	247.7
42°	317.8	285.4	261.5	246.5	240.2	242.1
42.5°	309.5	278.1	255.1	240.8	234.7	236.7
43°	301.3	270.9	248.8	235.1	229.3	231.1
43.5°	293.1	263.6	242.6	229.4	223.9	225.6



TEST NUMBER: P775754

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	269.5	242.4	224.4	212.7	207.5	209.3
45.5°	261.8	235.6	218.3	207.2	202.0	203.8
46°	254.4	229.0	212.6	201.9	196.8	198.6
46.5°	246.8	222.3	206.7	196.5	191.5	193.3
47°	239.3	215.9	200.9	191.2	186.3	187.9
47.5°	232.3	209.4	195.2	186.0	181.3	182.7
48°	225.4	203.1	189.4	180.7	176.3	177.5
48.5°	218.5	197.0	183.8	175.6	171.2	172.4
49°	211.9	190.9	178.5	170.6	166.4	167.4
49.5°	205.3	185.3	173.1	165.4	161.6	162.4
50°	199.1	179.4	167.8	160.5	156.7	157.3
50.5°	192.8	173.8	162.5	155.6	151.9	152.6
51°	186.8	168.3	157.3	150.7	147.4	147.8
51.5°	181.1	163.1	152.4	145.9	142.8	143.1
52°	175.6	157.9	147.6	141.5	138.4	138.5
52.5°	169.9	152.8	142.8	136.9	133.9	134.0
53°	164.6	147.9	138.2	132.3	129.5	129.6
53.5°	159.4	143.1	133.6	127.8	125.2	125.3
54°	154.4	138.4	129.1	123.4	120.9	121.2
54.5°	149.4	133.9	124.8	119.2	116.7	117.2
55°	144.8	129.5	120.7	115.0	112.8	113.2
55.5°	140.1	125.3	116.4	111.0	108.7	109.4
56°	135.6	121.1	112.5	107.0	105.0	105.9
56.5°	131.2	117.1	108.5	103.2	101.2	102.3
57°	127.1	113.1	104.7	99.5	97.5	99.0
57.5°	122.9	109.3	101.1	95.8	94.1	95.8
58°	119.0	105.5	97.4	92.4	90.8	93.1
58.5°	115.0	102.0	94.0	89.0	87.7	90.3
59°	111.2	98.5	90.6	85.8	84.8	87.8
59.5°	107.6	95.1	87.4	82.7	82.0	85.6
60°	103.9	91.8	84.2	79.6	79.4	83.9
60.5°	100.5	88.5	81.0	76.8	77.0	82.1
61°	97.2	85.4	78.1	74.0	74.6	80.2
61.5°	93.8	82.3	75.2	71.3	72.6	78.2
62°	90.7	79.4	72.4	68.9	70.8	76.2
62.5°	87.5	76.4	69.7	66.4	69.0	74.2
63°	84.4	73.6	66.9	64.0	67.2	72.2
63.5°	81.2	70.8	64.4	61.7	65.3	70.3
64°	78.5	68.1	61.9	59.6	63.5	68.2
64.5°	75.6	65.6	59.6	57.6	61.7	66.3
65°	72.7	63.0	57.2	55.5	60.0	64.4
65.5°	69.9	60.4	54.9	53.6	58.3	62.5
66°	67.3	58.0	52.8	51.8	56.5	60.6



TEST NUMBER: P775754

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	59.5	51.1	46.6	46.9	51.5	55.0
68°	56.9	48.9	44.7	45.4	49.8	53.3
68.5°	54.6	46.8	42.9	44.0	48.1	51.5
69°	52.2	44.8	41.0	42.5	46.5	49.8
69.5°	49.9	42.7	39.3	41.1	44.8	48.0
70°	47.7	40.7	37.8	39.8	43.3	46.3
70.5°	45.4	38.9	36.2	38.3	41.7	44.6
71°	43.4	37.2	34.8	36.9	40.1	43.0
71.5°	41.3	35.4	33.3	35.6	38.5	41.4
72°	39.1	33.7	31.7	34.3	37.0	39.8
72.5°	37.2	32.0	30.3	33.0	35.6	38.5
73°	35.3	30.3	28.9	31.8	34.1	36.9
73.5°	33.4	28.6	27.6	30.4	32.7	35.4
74°	31.4	27.1	26.3	29.1	31.2	33.8
74.5°	29.7	25.6	25.2	27.8	29.8	32.2
75°	28.0	24.2	24.0	26.5	28.5	30.7
75.5°	26.3	22.8	22.8	25.4	27.1	29.3
76°	24.7	21.4	21.6	24.1	25.7	27.8
76.5°	23.1	20.1	20.6	22.8	24.4	26.4
77°	21.6	18.9	19.5	21.6	23.0	25.1
77.5°	20.1	17.7	18.4	20.5	21.7	23.7
78°	18.8	16.5	17.4	19.3	20.5	22.3
78.5°	17.3	15.4	16.3	18.1	19.2	21.0
79°	16.0	14.2	15.4	17.0	17.9	19.6
79.5°	14.7	13.1	14.3	15.8	16.6	18.3
80°	13.4	12.2	13.3	14.7	15.5	17.1
80.5°	12.3	11.2	12.4	13.6	14.2	15.9
81°	11.1	10.2	11.4	12.6	13.0	14.6
81.5°	10.0	9.3	10.3	11.5	11.8	13.3
82°	9.1	8.3	9.5	10.4	10.7	12.2
82.5°	8.0	7.5	8.5	9.4	9.5	11.0
83°	6.9	6.6	7.6	8.4	8.3	9.8
83.5°	6.0	5.8	6.7	7.5	7.2	8.7
84°	5.0	4.9	5.8	6.5	6.2	7.6
84.5°	4.2	4.2	4.9	5.7	5.2	6.4
85°	3.4	3.4	4.1	4.7	4.4	5.3
85.5°	2.6	2.7	3.2	3.8	3.7	4.3
86°	1.9	1.8	2.3	3.1	3.1	3.6
86.5°	1.3	1.1	1.6	2.2	2.5	3.0
87°	0.6	0.4	0.7	1.5	1.8	2.3
87.5°	0.2	0.1	0.2	0.6	1.2	1.6
88°	0.0	0.0	0.0	0.1	0.6	1.2
88.5°	0.0	0.0	0.0	0.0	0.2	0.6



TEST NUMBER: P775754  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-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°	473.9	485.5	507.5	538.7	578.6	616.5	648.0	666.5	668.6	654.7	626.4
22°	468.3	480.0	502.3	533.9	574.3	612.5	644.7	663.5	665.7	651.6	623.0



44°	220.1	232.4	252.3	276.7	308.6	337.9	359.4	366.4	359.0	340.5	314.1
44.5°	214.7	227.1	246.6	270.5	301.5	329.4	350.0	356.7	349.6	331.1	305.4



66.5°	58.6	61.7	62.3	67.6	77.0	85.1	93.2	97.9	95.9	88.4	76.3
67°	56.8	59.9	60.3	65.1	74.1	82.0	90.1	94.7	92.6	85.2	73.6



89°	0.3	1.2	2.8	3.2	3.2	2.6	1.5	0.5	0.1	0.0	0.0
89.5°	0.0	0.6	1.9	2.3	2.5	1.8	1.0	0.2	0.0	0.0	0.0



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21.5°	588.7	547.1	511.2	486.0	473.4	473.9
22°	584.4	542.4	506.2	480.6	467.9	468.3



44°	285.1	256.5	236.6	223.7	218.3	220.1
44.5°	277.3	249.6	230.5	218.2	212.9	214.7



66.5°	64.6	55.6	50.6	50.1	54.8	58.6
67°	61.9	53.4	48.6	48.5	53.1	56.8

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89°	0.0	0.0	0.0	0.0	0.1	0.3
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)