

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: P775753

Luminaire Tested: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775753  
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-4000K  
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

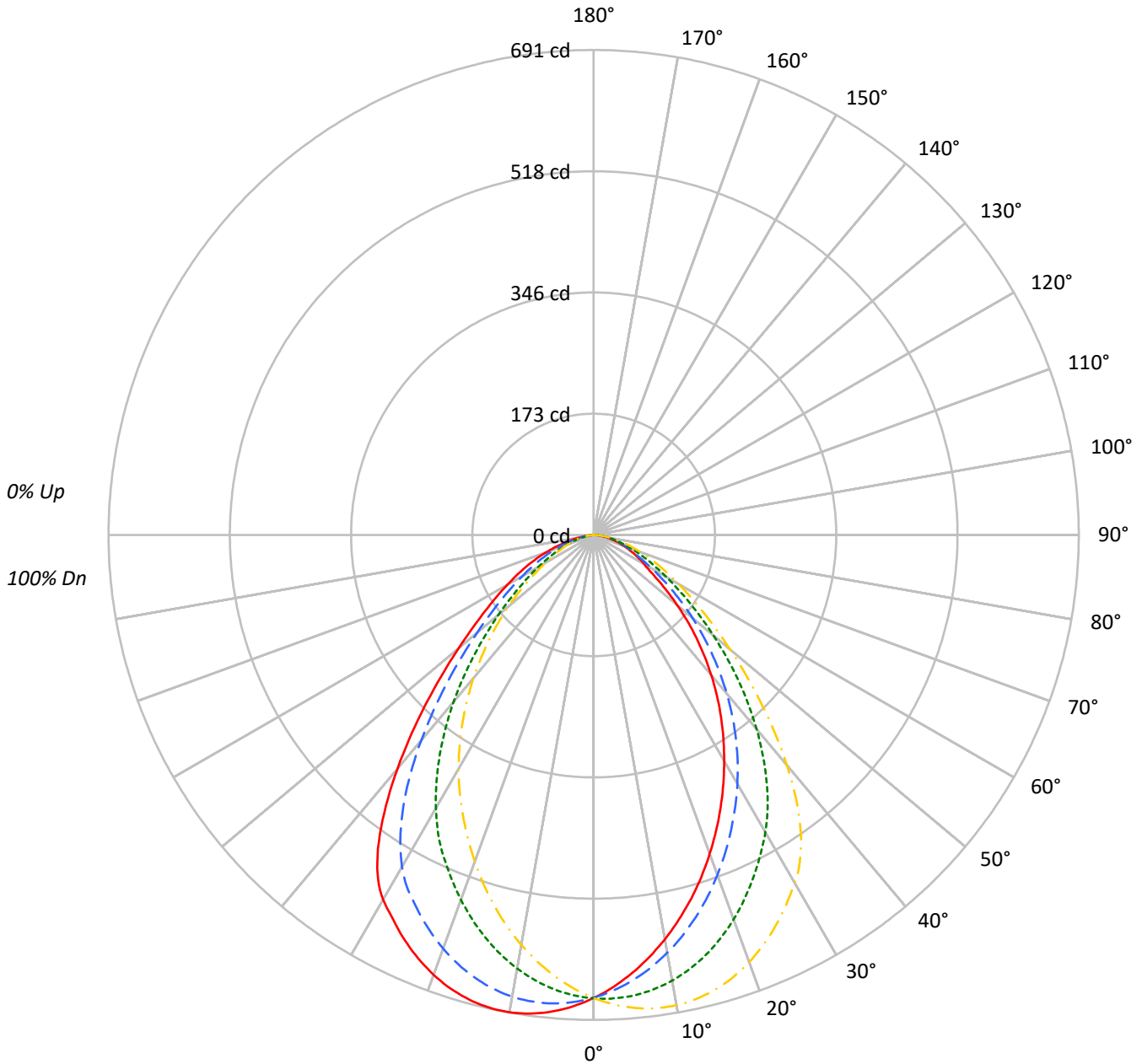
Lumens per Lamp: N/A  
Luminaire Lumens: 1197.7 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77					77			
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67					67			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60					60			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53					53			
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48					48			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43					43			
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33					33			

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

	0°	90°	180°	270°
0°	36165	36165	36165	36165
5°	34487	36248	37519	35753
10°	32553	35893	38443	34930
15°	30449	35136	38899	33740
20°	28201	34000	38900	32261
25°	25883	32566	38518	30595
30°	23535	30960	37962	28454
35°	21141	28737	35697	25565
40°	18649	25848	31108	22184
45°	15986	22475	25964	18521
50°	13228	18976	21415	15078
55°	10666	15741	18026	12196
60°	9067	13058	15569	9911
65°	8224	11000	13607	8055
70°	7309	9232	11524	6427
75°	6418	7795	9150	5041
80°	5304	6724	6156	3788
85°	3334	6479	2201	2139

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 26514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	5.2
10°-20°	171.1	14.3
20°-30°	242.3	20.2
30°-40°	258.1	21.6
40°-50°	207.2	17.3
50°-60°	134.5	11.2
60°-70°	78.0	6.5
70°-80°	36.7	3.1
80°-90°	8.0	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°	475.2	39.7
0°-40°	733.4	61.2
0°-60°	1075.1	89.8
0°-90°	1197.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	660	660	660	660	660	
5°	627	659	682	650	627	58
15°	536	619	685	594	536	150
25°	428	538	637	506	428	196
35°	316	429	533	382	316	197
45°	206	290	335	239	206	159
55°	112	165	189	128	112	102
65°	63	85	105	62	63	63
75°	30	37	43	24	30	32
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°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
0.5°	657.0	657.0	657.7	658.9	660.8	661.4	662.0	662.3	662.6	661.8	661.1
1°	654.0	654.5	655.9	658.0	661.0	662.6	664.1	665.0	665.2	664.1	662.5
1.5°	651.0	651.8	653.8	657.1	661.1	663.9	666.1	667.4	667.7	666.2	663.9
2°	647.8	649.0	651.8	655.9	661.2	665.0	668.0	669.7	670.0	668.2	665.2
2.5°	644.5	646.0	649.6	654.7	661.0	665.8	669.8	671.9	672.3	670.1	666.3
3°	641.1	643.1	647.3	653.4	660.8	666.6	671.4	674.0	674.4	671.9	667.3
3.5°	637.7	640.0	644.9	651.9	660.4	667.3	672.8	676.0	676.5	673.5	668.2
4°	634.2	636.8	642.4	650.4	660.0	667.9	674.2	677.9	678.3	675.0	668.8
4.5°	630.5	633.5	639.7	648.7	659.4	668.3	675.5	679.6	680.1	676.4	669.6
5°	626.7	630.1	637.0	646.8	658.7	668.5	676.6	681.2	681.8	677.7	670.0
5.5°	622.9	626.6	634.2	645.0	657.8	668.7	677.6	682.7	683.2	678.8	670.4
6°	618.9	623.0	631.3	642.9	656.9	668.7	678.4	684.0	684.6	679.8	670.6
6.5°	615.0	619.4	628.3	640.8	655.7	668.6	679.1	685.1	685.9	680.7	670.7
7°	610.9	615.6	625.1	638.5	654.6	668.4	679.7	686.2	686.9	681.3	670.7
7.5°	606.8	611.7	622.0	636.1	653.2	668.1	680.1	687.1	687.9	682.0	670.6
8°	602.6	607.8	618.6	633.7	651.7	667.6	680.4	687.9	688.7	682.4	670.4
8.5°	598.1	603.8	615.2	631.1	650.1	667.0	680.6	688.6	689.3	682.7	670.0
9°	593.8	599.6	611.7	628.4	648.5	666.2	680.6	689.0	690.0	682.9	669.5
9.5°	589.3	595.4	608.1	625.6	646.7	665.4	680.5	689.4	690.3	683.0	668.8
10°	584.8	591.3	604.4	622.6	644.8	664.3	680.3	689.6	690.6	682.9	668.1
10.5°	580.2	587.1	600.7	619.7	642.7	663.3	680.0	689.7	690.7	682.6	667.2
11°	575.7	582.7	596.8	616.5	640.6	662.0	679.5	689.6	690.7	682.3	666.1
11.5°	570.8	578.2	592.8	613.4	638.2	660.6	678.8	689.4	690.5	681.8	664.9
12°	566.1	573.8	588.8	610.0	635.9	659.1	678.1	689.1	690.2	681.1	663.6
12.5°	561.3	569.0	584.7	606.5	633.4	657.5	677.1	688.6	689.7	680.4	662.2
13°	556.4	564.6	580.6	603.1	630.8	655.7	676.1	688.0	689.1	679.5	660.6
13.5°	551.4	559.9	576.3	599.6	628.0	653.8	674.8	687.2	688.4	678.5	659.0
14°	546.6	555.2	572.0	595.9	625.1	651.8	673.6	686.3	687.5	677.4	657.2
14.5°	541.4	550.2	567.7	592.1	622.2	649.6	672.1	685.2	686.6	676.0	655.3
15°	536.5	545.5	563.2	588.3	619.1	647.3	670.5	684.1	685.4	674.5	653.3
15.5°	531.1	540.5	558.5	584.2	616.0	645.0	668.8	682.7	684.1	672.9	651.1
16°	526.1	535.5	554.1	580.3	612.6	642.5	667.0	681.2	682.7	671.3	648.9
16.5°	520.9	530.5	549.5	576.1	609.3	639.9	665.0	679.7	681.1	669.5	646.6
17°	515.7	525.6	544.8	571.9	605.7	637.1	662.9	677.9	679.5	667.6	644.2
17.5°	510.3	520.4	539.9	567.6	602.2	634.3	660.6	676.1	677.7	665.5	641.5
18°	505.1	515.4	535.2	563.3	598.5	631.1	658.2	674.0	675.8	663.4	638.8
18.5°	499.6	510.1	530.3	558.8	594.7	628.1	655.7	671.9	673.7	661.1	636.0
19°	494.4	505.0	525.5	554.2	590.8	624.9	653.2	669.7	671.5	658.7	633.1
19.5°	488.9	499.6	520.4	549.7	586.9	621.7	650.5	667.4	669.2	656.1	630.2
20°	483.4	494.5	515.5	545.2	582.8	618.3	647.6	664.9	666.8	653.6	627.1
20.5°	477.9	489.1	510.4	540.4	578.7	614.7	644.7	662.2	664.2	650.9	623.9
21°	472.5	483.7	505.3	535.7	574.4	611.2	641.6	659.6	661.6	647.9	620.6



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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°	455.8	467.6	489.7	521.1	561.6	599.8	632.1	650.9	653.1	639.0	610.3
23°	450.2	462.0	484.5	516.2	557.0	595.8	628.6	647.8	650.0	635.8	606.7
23.5°	444.8	456.6	479.3	511.2	552.4	591.9	625.0	644.5	646.9	632.5	603.0
24°	439.2	451.1	474.0	506.2	547.7	587.6	621.5	641.2	643.6	629.0	599.2
24.5°	433.5	445.6	468.6	501.1	543.1	583.5	617.8	637.7	640.3	625.6	595.3
25°	427.9	440.2	463.4	495.9	538.4	579.3	613.9	634.4	636.8	622.0	591.2
25.5°	422.3	434.5	458.0	490.7	533.6	574.9	610.1	630.7	633.3	618.3	587.3
26°	416.7	429.0	452.5	485.6	528.7	570.6	606.2	627.0	629.7	614.5	583.3
26.5°	411.2	423.5	447.3	480.6	524.0	566.2	602.1	623.1	625.9	610.8	579.3
27°	405.5	418.1	441.9	475.3	518.9	561.7	597.9	619.5	622.1	606.9	575.6
27.5°	399.8	412.5	436.6	470.1	514.1	557.1	593.8	615.4	618.3	603.3	571.6
28°	394.1	406.7	431.1	464.9	509.1	552.4	589.6	611.5	614.5	599.6	567.3
28.5°	388.7	401.2	425.8	459.8	504.2	547.8	585.3	607.5	611.0	596.0	562.4
29°	383.0	395.7	420.3	454.4	499.2	543.2	581.0	603.6	607.5	592.1	557.2
29.5°	377.3	390.1	414.8	449.1	494.3	538.8	576.9	599.8	603.7	587.6	551.7
30°	371.8	384.6	409.4	443.8	489.1	534.0	572.8	596.0	599.7	582.7	545.9
30.5°	366.2	379.0	403.8	438.4	483.9	529.1	568.3	591.9	595.4	577.2	539.8
31°	360.5	373.4	398.3	432.6	478.4	524.0	563.8	587.6	590.6	571.5	533.2
31.5°	355.0	368.0	392.7	427.1	472.7	518.6	558.8	582.6	585.2	565.4	526.5
32°	349.3	362.2	387.1	421.3	467.0	512.8	553.3	577.3	579.4	558.8	519.7
32.5°	343.7	356.6	381.5	415.6	461.1	506.8	547.4	571.7	573.0	551.7	512.4
33°	338.3	351.1	375.8	409.8	454.9	500.6	541.5	565.6	566.1	544.2	504.9
33.5°	332.7	345.5	370.2	403.8	448.8	494.3	535.0	558.8	558.5	536.2	497.1
34°	327.1	339.8	364.4	397.8	442.4	487.7	528.4	551.5	550.5	528.1	489.3
34.5°	321.6	334.4	358.7	391.6	436.0	481.1	521.4	543.7	542.3	519.6	480.9
35°	315.9	328.7	353.0	385.5	429.4	474.1	513.9	535.5	533.4	510.9	472.6
35.5°	310.5	323.1	347.2	379.3	422.8	467.2	506.2	527.1	524.4	501.7	464.1
36°	305.1	317.6	341.4	373.1	416.2	460.0	498.3	518.4	515.2	492.5	455.4
36.5°	299.5	312.0	335.6	366.8	409.5	452.8	490.2	509.3	505.5	483.2	446.6
37°	293.8	306.2	329.7	360.6	402.8	445.3	481.9	499.9	495.6	473.6	437.4
37.5°	288.4	300.6	324.0	354.4	395.9	437.6	473.1	490.5	485.7	463.8	428.3
38°	282.8	295.1	318.0	348.1	388.9	430.4	464.4	481.0	475.7	453.8	419.1
38.5°	277.2	289.5	312.3	341.8	382.2	422.3	455.6	471.2	465.6	444.1	410.0
39°	271.8	283.8	306.5	335.6	375.1	414.5	446.7	461.4	455.2	434.0	400.8
39.5°	266.2	278.4	300.6	329.2	368.2	406.5	437.4	451.3	445.0	424.1	391.6
40°	260.6	272.8	294.7	322.9	361.2	398.8	428.2	441.2	434.7	414.0	382.1
40.5°	255.2	267.2	289.0	316.6	353.9	390.1	419.0	431.1	424.4	404.2	372.8
41°	249.6	261.7	283.1	310.3	346.9	382.2	409.8	421.0	414.1	393.9	363.6
41.5°	244.1	256.3	277.3	304.0	339.7	374.0	400.5	410.7	403.7	384.3	354.4
42°	238.6	250.8	271.6	297.6	332.7	366.1	391.0	400.7	393.6	374.1	345.1
42.5°	233.2	245.4	265.9	291.4	325.5	357.5	381.7	390.8	383.6	364.5	336.3
43°	227.7	239.9	260.1	284.9	318.3	349.4	372.5	380.9	373.6	354.6	327.1
43.5°	222.3	234.5	254.4	279.0	311.2	341.0	363.4	371.1	363.7	345.2	318.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	206.2	218.3	237.4	260.2	289.9	316.6	336.0	342.0	334.9	317.2	292.3
45.5°	200.9	213.0	231.8	254.4	282.8	308.4	327.1	333.0	325.5	308.3	284.1
46°	195.7	207.8	226.4	248.3	276.0	300.4	318.4	323.8	316.5	299.4	275.9
46.5°	190.5	202.5	220.8	242.2	268.9	292.7	309.8	315.0	307.5	290.8	267.8
47°	185.2	197.4	215.3	236.0	262.0	284.9	301.0	305.9	298.8	282.4	259.9
47.5°	180.1	192.1	210.0	230.4	255.2	277.0	292.7	297.5	290.2	274.1	252.3
48°	174.9	187.0	204.6	224.5	248.5	269.4	284.6	289.1	282.1	266.1	244.8
48.5°	169.9	181.9	199.3	218.8	241.8	262.1	276.5	281.1	274.1	258.3	237.5
49°	164.9	176.9	194.1	212.8	235.3	254.8	268.7	272.8	266.1	250.9	230.3
49.5°	160.0	172.0	188.9	207.3	228.8	247.4	261.0	265.2	258.6	243.4	223.4
50°	155.1	166.9	183.6	201.6	222.5	240.4	253.5	257.6	251.1	236.3	216.7
50.5°	150.3	161.9	178.6	196.0	216.0	233.4	246.0	250.3	243.8	229.2	210.2
51°	145.6	157.2	173.5	190.6	209.9	226.6	239.1	243.1	236.8	222.5	203.8
51.5°	141.0	152.4	168.5	185.0	204.1	220.0	232.3	236.1	230.2	216.1	197.7
52°	136.5	147.8	163.7	179.6	198.0	213.4	225.3	229.4	223.5	209.9	191.8
52.5°	132.0	143.1	158.7	174.4	192.0	206.8	218.8	223.1	217.2	203.8	185.9
53°	127.7	138.6	154.0	169.1	186.4	200.7	212.4	216.6	211.1	197.8	180.4
53.5°	123.4	134.0	149.1	164.1	180.7	194.7	206.3	210.5	205.1	192.2	175.0
54°	119.4	129.8	144.5	159.0	175.3	188.8	200.3	204.5	199.4	186.8	169.7
54.5°	115.4	125.6	140.1	154.1	169.9	183.0	194.3	198.8	193.8	181.4	164.6
55°	111.6	121.4	135.6	149.3	164.7	177.4	188.9	193.2	188.6	176.4	159.7
55.5°	107.8	117.4	131.2	144.7	159.6	172.1	183.2	187.7	183.2	171.2	154.9
56°	104.3	113.5	127.0	139.9	154.5	166.8	177.8	182.4	178.1	166.6	150.3
56.5°	100.8	109.6	122.7	135.5	149.7	161.7	172.6	177.1	173.1	161.8	145.7
57°	97.6	106.0	118.5	131.1	144.9	156.7	167.4	172.2	168.4	157.3	141.4
57.5°	94.4	102.3	114.3	126.7	140.3	151.8	162.6	167.2	163.7	152.7	137.1
58°	91.7	98.9	110.5	122.6	135.8	147.3	157.8	162.6	159.1	148.5	133.1
58.5°	89.0	95.4	106.6	118.5	131.5	142.8	153.2	158.0	154.7	144.2	129.0
59°	86.6	92.3	102.8	114.6	127.3	138.2	148.6	153.5	150.3	140.0	125.0
59.5°	84.4	89.3	99.2	110.6	123.1	133.8	144.0	149.1	146.1	136.0	121.2
60°	82.7	86.5	95.8	106.8	119.1	129.6	139.7	144.8	142.0	132.3	117.5
60.5°	80.9	83.7	92.3	103.3	115.2	125.5	135.6	140.6	138.0	128.2	113.9
61°	79.0	81.5	89.1	99.7	111.5	121.5	131.5	136.5	133.9	124.4	110.3
61.5°	77.1	79.4	86.0	96.1	107.8	117.7	127.5	132.5	130.2	120.8	106.7
62°	75.1	77.7	83.1	92.9	104.2	114.0	123.5	128.6	126.5	117.2	103.4
62.5°	73.1	75.8	80.2	89.5	100.6	110.2	119.7	124.7	122.7	113.6	99.9
63°	71.1	74.0	77.5	86.3	97.3	106.5	115.9	120.9	118.9	110.0	96.6
63.5°	69.2	72.1	74.8	83.2	93.9	103.2	112.2	117.1	115.3	106.5	93.4
64°	67.2	70.2	72.3	80.4	90.9	99.7	108.6	113.6	111.9	103.3	90.3
64.5°	65.3	68.2	69.9	77.4	87.8	96.4	105.0	110.1	108.3	99.8	87.3
65°	63.4	66.4	67.7	74.6	84.8	93.1	101.7	106.6	104.9	96.6	84.2
65.5°	61.6	64.6	65.4	71.9	81.7	90.0	98.3	103.2	101.5	93.3	81.2
66°	59.7	62.7	63.3	69.2	78.6	87.0	95.0	99.7	98.0	90.1	78.2





TEST NUMBER: P775753

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	54.2	57.3	57.7	61.7	70.4	77.7	85.6	90.0	88.0	80.8	69.6
68°	52.5	55.5	56.0	59.5	67.7	74.9	82.6	86.9	84.8	77.6	66.8
68.5°	50.7	53.7	54.3	57.1	65.0	72.1	79.4	83.7	81.5	74.5	64.2
69°	49.1	52.0	52.7	54.9	62.5	69.2	76.5	80.6	78.2	71.4	61.6
69.5°	47.3	50.3	51.2	52.8	60.0	66.6	73.4	77.3	75.0	68.5	58.9
70°	45.6	48.6	49.6	50.8	57.6	63.9	70.6	74.4	71.9	65.4	56.3
70.5°	43.9	47.0	48.0	48.8	55.3	61.3	67.9	71.3	68.8	62.6	53.9
71°	42.3	45.3	46.4	47.0	52.9	58.8	65.1	68.5	65.8	59.9	51.5
71.5°	40.8	43.7	45.0	45.1	50.7	56.4	62.4	65.4	62.7	57.0	49.0
72°	39.2	42.1	43.4	43.4	48.5	54.0	59.8	62.7	59.8	54.3	46.6
72.5°	37.9	40.5	41.9	41.6	46.4	51.6	57.1	59.9	56.9	51.6	44.3
73°	36.3	39.0	40.4	40.0	44.4	49.4	54.6	57.1	54.1	49.0	42.0
73.5°	34.9	37.9	39.0	38.4	42.4	47.1	52.1	54.5	51.2	46.4	39.8
74°	33.3	36.5	38.1	37.0	40.5	45.0	49.7	51.9	48.5	43.9	37.6
74.5°	31.7	34.9	36.6	35.5	38.7	42.8	47.4	49.3	45.8	41.4	35.5
75°	30.3	33.3	35.1	34.1	36.8	40.7	45.1	46.7	43.2	39.0	33.4
75.5°	28.9	31.7	33.6	32.7	35.0	38.7	42.8	44.3	40.5	36.7	31.4
76°	27.4	30.3	32.0	31.3	33.3	36.8	40.4	41.9	37.9	34.4	29.4
76.5°	26.1	28.9	30.7	29.9	31.6	34.8	38.2	39.5	35.5	32.1	27.4
77°	24.7	27.4	29.3	28.7	30.0	32.9	36.1	37.2	33.1	29.9	25.6
77.5°	23.3	26.1	28.0	27.4	28.4	31.1	34.0	35.0	30.7	27.8	23.7
78°	22.0	24.7	26.7	26.3	26.9	29.3	32.0	32.9	28.4	25.7	22.1
78.5°	20.7	23.3	25.4	25.0	25.4	27.6	30.0	30.7	26.1	23.7	20.3
79°	19.3	22.1	24.2	23.8	24.1	25.9	28.2	28.6	23.8	21.9	18.6
79.5°	18.1	20.7	22.9	22.7	22.6	24.4	26.3	26.7	21.6	20.0	17.0
80°	16.8	19.4	21.6	21.5	21.3	22.8	24.5	24.7	19.5	18.1	15.4
80.5°	15.7	18.2	20.4	20.5	20.1	21.3	22.7	22.8	17.5	16.4	14.0
81°	14.4	16.9	19.2	19.3	18.8	19.9	21.0	20.9	15.5	14.7	12.5
81.5°	13.1	15.7	18.0	18.2	17.6	18.4	19.3	19.0	13.7	13.0	11.1
82°	12.0	14.5	16.8	17.1	16.5	17.0	17.6	17.1	11.9	11.6	10.0
82.5°	10.8	13.2	15.7	16.0	15.3	15.7	16.1	15.3	10.4	10.2	8.7
83°	9.7	12.1	14.5	14.9	14.3	14.5	14.6	13.7	8.9	8.8	7.6
83.5°	8.6	10.9	13.3	13.9	13.2	13.2	13.2	12.1	7.5	7.5	6.4
84°	7.5	9.8	12.3	12.8	12.2	12.0	11.8	10.6	6.0	6.1	5.1
84.5°	6.3	8.6	11.2	11.9	11.2	10.9	10.6	9.1	4.5	4.7	4.3
85°	5.3	7.5	10.2	10.8	10.3	9.9	9.5	7.8	3.5	3.7	3.4
85.5°	4.2	6.4	9.1	9.8	9.3	8.8	8.2	6.3	2.7	2.7	2.6
86°	3.6	5.4	8.2	8.8	8.4	7.9	7.0	4.9	2.1	2.0	1.9
86.5°	2.9	4.5	7.1	7.8	7.6	6.8	5.8	3.9	1.7	1.4	1.3
87°	2.3	3.8	6.2	6.8	6.6	5.8	4.8	3.0	1.3	0.8	0.7
87.5°	1.6	3.2	5.3	5.9	5.8	4.9	3.9	2.2	0.9	0.4	0.3
88°	1.2	2.4	4.3	4.9	4.9	4.0	3.0	1.5	0.6	0.2	0.1
88.5°	0.6	1.8	3.6	4.0	4.0	3.3	2.2	0.9	0.3	0.1	0.0



TEST NUMBER: P775753  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**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: P775753

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	659.7	659.7	659.7	659.7	659.7	659.7
0.5°	660.2	659.8	658.4	657.5	656.9	657.0
1°	660.8	659.2	656.8	655.0	653.9	654.0
1.5°	661.2	658.4	655.0	652.4	650.9	651.0
2°	661.4	657.5	653.1	649.7	647.7	647.8
2.5°	661.6	656.6	651.1	646.9	644.6	644.5
3°	661.6	655.4	649.0	644.1	641.2	641.1
3.5°	661.4	654.1	646.8	641.0	637.7	637.7
4°	661.2	652.8	644.4	638.0	634.3	634.2
4.5°	660.9	651.3	642.0	634.7	630.7	630.5
5°	660.3	649.7	639.3	631.4	626.9	626.7
5.5°	659.7	648.0	636.7	628.0	623.0	622.9
6°	659.0	646.2	634.0	624.5	619.3	618.9
6.5°	658.1	644.3	631.0	620.8	615.3	615.0
7°	657.2	642.2	628.1	617.2	611.2	610.9
7.5°	656.0	640.0	624.9	613.4	607.0	606.8
8°	654.8	637.6	621.7	609.5	602.8	602.6
8.5°	653.4	635.2	618.4	605.5	598.5	598.1
9°	652.0	632.7	615.0	601.5	594.2	593.8
9.5°	650.5	630.1	611.5	597.3	589.5	589.3
10°	648.8	627.5	607.9	593.1	585.1	584.8
10.5°	646.9	624.5	604.2	588.8	580.5	580.2
11°	645.0	621.6	600.4	584.4	575.9	575.7
11.5°	642.9	618.5	596.5	580.0	571.1	570.8
12°	640.7	615.4	592.6	575.5	566.3	566.1
12.5°	638.5	612.2	588.5	570.8	561.5	561.3
13°	636.1	608.8	584.4	566.1	556.5	556.4
13.5°	633.7	605.3	580.2	561.4	551.7	551.4
14°	630.9	601.8	575.9	556.7	546.7	546.6
14.5°	628.2	598.3	571.6	551.8	541.6	541.4
15°	625.4	594.5	567.2	546.9	536.5	536.5
15.5°	622.4	590.7	562.6	541.9	531.2	531.1
16°	619.5	586.8	557.9	536.9	526.1	526.1
16.5°	616.2	582.8	553.3	531.9	520.9	520.9
17°	613.1	578.8	548.6	526.7	515.6	515.7
17.5°	609.7	574.7	543.8	521.6	510.3	510.3
18°	606.2	570.4	539.0	516.4	504.9	505.1
18.5°	602.8	566.2	534.1	511.1	499.6	499.6
19°	599.2	561.8	529.2	505.8	494.1	494.4
19.5°	595.6	557.5	524.2	500.6	488.7	488.9
20°	591.7	553.0	519.3	495.2	483.2	483.4
20.5°	588.0	548.5	514.2	489.8	477.7	477.9
21°	584.0	543.8	509.1	484.3	472.2	472.5

TEST NUMBER: P775753

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	571.8	529.7	493.5	468.1	455.5	455.8
23°	567.6	524.9	488.4	462.5	449.9	450.2
23.5°	563.3	520.1	483.1	457.1	444.4	444.8
24°	559.0	515.4	478.0	451.7	438.7	439.2
24.5°	554.6	510.5	472.8	446.2	433.1	433.5
25°	550.2	505.8	467.7	440.5	427.5	427.9
25.5°	545.9	500.9	462.2	435.3	422.0	422.3
26°	541.6	496.0	457.1	429.5	416.4	416.7
26.5°	537.2	491.0	451.8	424.3	410.7	411.2
27°	532.6	485.5	446.4	418.7	405.1	405.5
27.5°	527.6	479.7	440.6	413.3	399.5	399.8
28°	522.1	474.0	434.8	407.5	393.9	394.1
28.5°	516.4	467.9	428.9	402.0	388.4	388.7
29°	510.6	462.0	423.0	396.3	382.7	383.0
29.5°	504.7	455.8	417.1	390.7	377.1	377.3
30°	498.2	449.5	411.1	384.6	371.7	371.8
30.5°	491.8	443.1	405.0	379.1	366.1	366.2
31°	485.2	436.7	398.7	373.1	360.3	360.5
31.5°	478.5	430.1	392.4	367.2	354.7	355.0
32°	471.5	423.3	386.1	361.2	349.1	349.3
32.5°	464.4	416.5	379.8	355.5	343.4	343.7
33°	457.3	409.8	373.3	349.5	337.8	338.3
33.5°	450.0	402.9	366.8	343.5	332.2	332.7
34°	442.5	396.0	360.5	337.5	326.5	327.1
34.5°	434.8	388.7	353.9	331.5	320.7	321.6
35°	427.2	382.0	347.6	325.5	315.0	315.9
35.5°	419.6	374.7	341.0	319.6	309.5	310.5
36°	411.8	367.7	334.8	313.6	303.8	305.1
36.5°	403.7	360.5	328.3	307.7	298.1	299.5
37°	395.5	353.4	322.0	301.7	292.5	293.8
37.5°	387.4	346.2	315.4	295.9	286.9	288.4
38°	379.2	338.9	309.2	289.8	281.1	282.8
38.5°	371.0	331.6	302.6	283.9	275.5	277.2
39°	362.7	324.5	296.2	278.2	269.9	271.8
39.5°	354.4	317.4	289.7	272.3	264.3	266.2
40°	346.1	310.0	283.3	266.2	258.7	260.6
40.5°	337.8	302.7	276.8	260.2	253.2	255.2
41°	329.6	295.5	270.3	254.3	247.7	249.6
41.5°	321.2	288.4	263.9	248.5	242.1	244.1
42°	313.1	281.2	257.7	242.9	236.7	238.6
42.5°	305.0	274.1	251.4	237.3	231.3	233.2
43°	296.9	266.9	245.2	231.6	226.0	227.7
43.5°	288.8	259.8	239.1	226.1	220.6	222.3



TEST NUMBER: P775753

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	265.6	238.9	221.1	209.6	204.4	206.2
45.5°	258.0	232.2	215.1	204.2	199.1	200.9
46°	250.6	225.6	209.5	199.0	193.9	195.7
46.5°	243.2	219.0	203.7	193.6	188.7	190.5
47°	235.8	212.7	198.0	188.5	183.6	185.2
47.5°	228.9	206.3	192.3	183.3	178.7	180.1
48°	222.1	200.1	186.7	178.1	173.8	174.9
48.5°	215.3	194.1	181.1	173.0	168.7	169.9
49°	208.8	188.1	175.9	168.1	164.0	164.9
49.5°	202.3	182.6	170.6	163.0	159.3	160.0
50°	196.2	176.8	165.3	158.2	154.4	155.1
50.5°	190.0	171.2	160.1	153.4	149.7	150.3
51°	184.0	165.9	155.1	148.5	145.3	145.6
51.5°	178.5	160.7	150.2	143.8	140.8	141.0
52°	173.0	155.6	145.5	139.4	136.4	136.5
52.5°	167.4	150.5	140.8	134.9	131.9	132.0
53°	162.2	145.7	136.1	130.4	127.6	127.7
53.5°	157.0	141.0	131.6	126.0	123.3	123.4
54°	152.1	136.4	127.2	121.6	119.1	119.4
54.5°	147.2	131.9	123.0	117.4	115.0	115.4
55°	142.7	127.6	118.9	113.3	111.1	111.6
55.5°	138.0	123.4	114.7	109.4	107.1	107.8
56°	133.6	119.3	110.8	105.5	103.5	104.3
56.5°	129.3	115.3	106.9	101.7	99.7	100.8
57°	125.2	111.5	103.2	98.0	96.1	97.6
57.5°	121.1	107.7	99.6	94.4	92.8	94.4
58°	117.2	104.0	96.0	91.1	89.5	91.7
58.5°	113.3	100.5	92.7	87.7	86.5	89.0
59°	109.6	97.1	89.3	84.6	83.5	86.6
59.5°	106.0	93.7	86.1	81.5	80.8	84.4
60°	102.4	90.4	83.0	78.5	78.3	82.7
60.5°	99.1	87.2	79.8	75.6	75.8	80.9
61°	95.8	84.1	77.0	72.9	73.5	79.0
61.5°	92.4	81.1	74.1	70.3	71.5	77.1
62°	89.4	78.3	71.3	67.9	69.8	75.1
62.5°	86.2	75.3	68.7	65.4	68.0	73.1
63°	83.2	72.5	66.0	63.0	66.2	71.1
63.5°	80.0	69.8	63.4	60.8	64.4	69.2
64°	77.3	67.1	61.0	58.7	62.6	67.2
64.5°	74.5	64.6	58.7	56.7	60.8	65.3
65°	71.6	62.1	56.4	54.7	59.1	63.4
65.5°	68.9	59.6	54.1	52.8	57.5	61.6
66°	66.3	57.1	52.0	51.1	55.7	59.7



TEST NUMBER: P775753

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	58.6	50.3	45.9	46.2	50.7	54.2
68°	56.1	48.2	44.0	44.8	49.1	52.5
68.5°	53.8	46.1	42.2	43.4	47.4	50.7
69°	51.5	44.1	40.4	41.9	45.8	49.1
69.5°	49.2	42.1	38.8	40.5	44.1	47.3
70°	47.0	40.1	37.3	39.2	42.6	45.6
70.5°	44.8	38.3	35.7	37.7	41.1	43.9
71°	42.8	36.7	34.2	36.3	39.5	42.3
71.5°	40.7	34.9	32.8	35.1	37.9	40.8
72°	38.6	33.2	31.2	33.8	36.5	39.2
72.5°	36.7	31.5	29.8	32.6	35.1	37.9
73°	34.8	29.8	28.5	31.3	33.6	36.3
73.5°	32.9	28.2	27.2	29.9	32.2	34.9
74°	31.0	26.7	25.9	28.7	30.8	33.3
74.5°	29.3	25.2	24.8	27.4	29.4	31.7
75°	27.6	23.8	23.6	26.2	28.0	30.3
75.5°	25.9	22.5	22.5	25.0	26.7	28.9
76°	24.4	21.1	21.3	23.7	25.3	27.4
76.5°	22.8	19.9	20.3	22.5	24.1	26.1
77°	21.3	18.6	19.2	21.3	22.7	24.7
77.5°	19.9	17.4	18.2	20.2	21.4	23.3
78°	18.5	16.3	17.1	19.0	20.2	22.0
78.5°	17.0	15.1	16.1	17.9	18.9	20.7
79°	15.8	14.0	15.1	16.7	17.6	19.3
79.5°	14.5	12.9	14.1	15.5	16.4	18.1
80°	13.2	12.0	13.1	14.5	15.2	16.8
80.5°	12.1	11.0	12.2	13.4	14.0	15.7
81°	10.9	10.1	11.2	12.4	12.8	14.4
81.5°	9.9	9.1	10.2	11.3	11.7	13.1
82°	8.9	8.2	9.3	10.3	10.5	12.0
82.5°	7.9	7.4	8.4	9.2	9.3	10.8
83°	6.8	6.5	7.5	8.3	8.2	9.7
83.5°	5.9	5.7	6.6	7.4	7.1	8.6
84°	4.9	4.8	5.7	6.4	6.1	7.5
84.5°	4.1	4.1	4.8	5.6	5.1	6.3
85°	3.4	3.4	4.0	4.6	4.3	5.3
85.5°	2.5	2.6	3.2	3.8	3.7	4.2
86°	1.9	1.8	2.3	3.0	3.0	3.6
86.5°	1.3	1.1	1.6	2.2	2.4	2.9
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: P775753  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-4000K

**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°	466.9	478.4	500.1	530.8	570.2	607.5	638.6	656.8	658.9	645.1	617.3
22°	461.5	473.0	495.0	526.1	565.9	603.6	635.3	653.8	656.0	642.1	613.9



44°	216.9	229.0	248.6	272.7	304.1	333.0	354.1	361.1	353.8	335.5	309.5
44.5°	211.6	223.8	243.0	266.5	297.1	324.6	344.9	351.5	344.5	326.3	301.0



66.5°	57.8	60.8	61.3	66.6	75.8	83.8	91.8	96.4	94.5	87.1	75.2
67°	56.0	59.0	59.5	64.2	73.0	80.8	88.8	93.3	91.3	83.9	72.5



89°	0.3	1.2	2.7	3.2	3.2	2.5	1.5	0.5	0.1	0.0	0.0
89.5°	0.0	0.6	1.9	2.3	2.4	1.8	0.9	0.2	0.0	0.0	0.0



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21.5°	580.1	539.1	503.7	478.9	466.5	466.9
22°	575.9	534.5	498.8	473.6	461.1	461.5



44°	280.9	252.7	233.1	220.4	215.1	216.9
44.5°	273.2	245.9	227.1	215.0	209.8	211.6



66.5°	63.7	54.8	49.9	49.4	54.0	57.8
67°	61.0	52.6	47.9	47.8	52.3	56.0

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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)