

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: P775750

Luminaire Tested: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775750
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-2700K
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

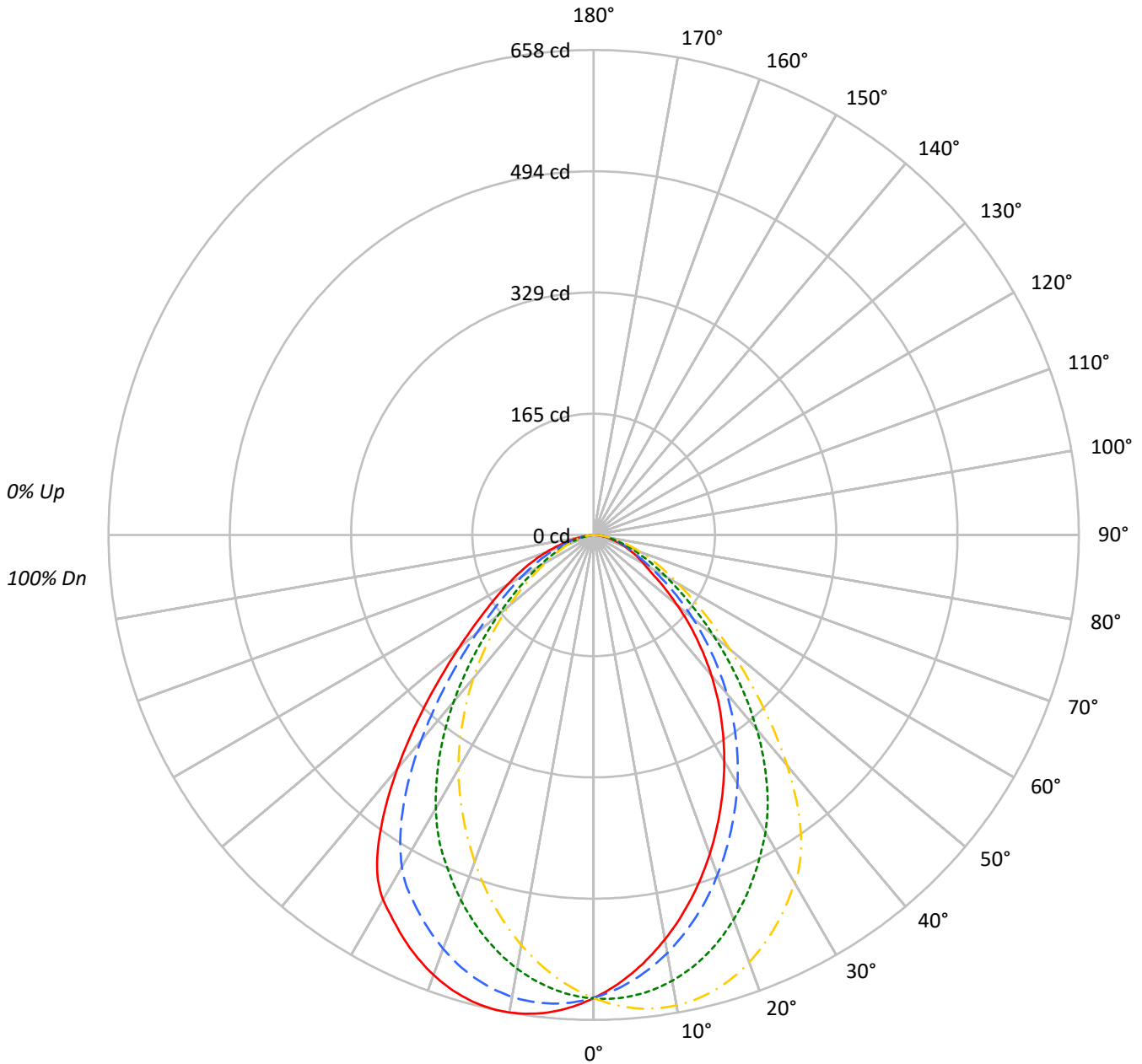
Lumens per Lamp: N/A
Luminaire Lumens: 1141.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775750
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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				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°	34449	34449	34449	34449
5°	32853	34526	35742	34058
10°	31011	34190	36623	33271
15°	29007	33468	37060	32140
20°	26865	32389	37057	30733
25°	24655	31024	36692	29143
30°	22421	29492	36164	27105
35°	20137	27378	34010	24353
40°	17769	24618	29634	21132
45°	15226	21413	24731	17645
50°	12597	18080	20400	14362
55°	10160	14996	17165	11622
60°	8640	12444	14834	9451
65°	7835	10481	12972	7666
70°	6956	8784	10963	6123
75°	6100	7413	8705	4808
80°	5051	6409	5872	3599
85°	3145	6164	2076	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 25258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	5.2
10°-20°	163.0	14.3
20°-30°	230.8	20.2
30°-40°	245.9	21.6
40°-50°	197.4	17.3
50°-60°	128.1	11.2
60°-70°	74.3	6.5
70°-80°	34.9	3.1
80°-90°	7.6	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°	452.7	39.7
0°-40°	698.6	61.2
0°-60°	1024.1	89.8
0°-90°	1141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1141.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	628	628	628	628	628	
5°	597	627	650	619	597	56
15°	511	590	653	566	511	143
25°	408	513	607	482	408	187
35°	301	409	508	364	301	188
45°	196	276	319	228	196	151
55°	106	157	180	122	106	97
65°	60	81	100	59	60	60
75°	29	35	41	23	29	31
85°	5	10	3	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°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
0.5°	625.8	625.8	626.5	627.6	629.4	630.0	630.6	630.9	631.2	630.4	629.7
1°	623.0	623.4	624.8	626.8	629.6	631.2	632.6	633.4	633.6	632.6	631.1
1.5°	620.1	620.9	622.8	625.9	629.7	632.4	634.5	635.7	636.1	634.6	632.4
2°	617.1	618.2	620.9	624.8	629.8	633.4	636.4	638.0	638.3	636.6	633.6
2.5°	613.9	615.4	618.8	623.6	629.6	634.2	638.1	640.1	640.5	638.4	634.7
3°	610.7	612.6	616.6	622.4	629.4	635.0	639.6	642.1	642.5	640.1	635.6
3.5°	607.5	609.6	614.3	621.0	629.1	635.6	641.0	644.0	644.5	641.6	636.6
4°	604.1	606.6	611.9	619.5	628.7	636.3	642.3	645.8	646.2	643.1	637.2
4.5°	600.6	603.5	609.4	617.9	628.1	636.7	643.5	647.4	647.9	644.4	637.9
5°	597.0	600.2	606.8	616.1	627.4	636.9	644.6	649.0	649.5	645.6	638.3
5.5°	593.4	596.9	604.1	614.4	626.6	637.1	645.5	650.4	650.9	646.7	638.7
6°	589.6	593.5	601.4	612.4	625.7	637.1	646.3	651.6	652.2	647.6	638.9
6.5°	585.8	590.0	598.5	610.4	624.6	637.0	647.0	652.7	653.4	648.5	639.0
7°	581.9	586.4	595.5	608.2	623.5	636.8	647.5	653.7	654.4	649.1	639.0
7.5°	578.0	582.7	592.5	605.9	622.2	636.5	647.9	654.6	655.3	649.7	638.9
8°	574.0	579.0	589.3	603.6	620.8	636.0	648.2	655.3	656.1	650.1	638.7
8.5°	569.8	575.2	586.0	601.2	619.3	635.3	648.4	656.0	656.7	650.4	638.3
9°	565.7	571.2	582.7	598.6	617.7	634.6	648.4	656.4	657.3	650.6	637.8
9.5°	561.4	567.2	579.3	595.9	616.0	633.8	648.3	656.8	657.6	650.7	637.2
10°	557.1	563.3	575.8	593.1	614.2	632.8	648.1	657.0	657.9	650.6	636.5
10.5°	552.7	559.3	572.2	590.3	612.2	631.8	647.8	657.1	658.0	650.3	635.5
11°	548.4	555.1	568.5	587.3	610.2	630.6	647.3	657.0	658.0	650.0	634.5
11.5°	543.8	550.8	564.7	584.3	607.9	629.3	646.7	656.8	657.8	649.5	633.3
12°	539.3	546.6	560.9	581.1	605.7	627.8	646.0	656.5	657.5	648.9	632.1
12.5°	534.7	542.1	557.0	577.8	603.4	626.3	645.1	656.0	657.1	648.2	630.8
13°	530.1	537.9	553.1	574.5	600.9	624.6	644.1	655.4	656.5	647.3	629.3
13.5°	525.3	533.4	549.0	571.2	598.2	622.8	642.9	654.7	655.8	646.4	627.7
14°	520.7	528.9	544.9	567.7	595.5	620.9	641.7	653.8	655.0	645.3	626.0
14.5°	515.8	524.2	540.8	564.0	592.7	618.8	640.3	652.8	654.1	644.0	624.2
15°	511.1	519.7	536.5	560.4	589.7	616.6	638.8	651.7	653.0	642.6	622.3
15.5°	506.0	514.9	532.1	556.5	586.8	614.4	637.2	650.4	651.7	641.1	620.2
16°	501.2	510.2	527.9	552.8	583.6	612.0	635.3	649.0	650.4	639.5	618.1
16.5°	496.3	505.4	523.5	548.8	580.4	609.5	633.4	647.5	648.9	637.8	615.9
17°	491.2	500.7	519.0	544.8	577.0	606.9	631.4	645.8	647.3	636.0	613.6
17.5°	486.1	495.8	514.4	540.7	573.7	604.2	629.3	644.1	645.6	633.9	611.1
18°	481.1	490.9	509.9	536.6	570.1	601.2	627.0	642.1	643.8	631.9	608.5
18.5°	475.9	485.9	505.2	532.3	566.5	598.3	624.6	640.1	641.8	629.7	605.8
19°	470.9	481.0	500.6	528.0	562.8	595.3	622.2	638.0	639.7	627.4	603.1
19.5°	465.7	475.9	495.8	523.7	559.1	592.2	619.6	635.7	637.5	625.0	600.3
20°	460.5	471.0	491.0	519.4	555.2	589.0	616.9	633.3	635.2	622.6	597.4
20.5°	455.2	465.9	486.2	514.8	551.3	585.6	614.1	630.8	632.7	620.0	594.3
21°	450.1	460.8	481.3	510.4	547.2	582.2	611.2	628.3	630.2	617.2	591.2



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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°	434.2	445.4	466.5	496.5	535.0	571.4	602.1	620.0	622.1	608.7	581.4
23°	428.9	440.1	461.5	491.7	530.6	567.6	598.8	617.1	619.2	605.6	577.9
23.5°	423.7	435.0	456.6	486.9	526.3	563.9	595.4	613.9	616.2	602.5	574.4
24°	418.4	429.7	451.5	482.2	521.8	559.8	592.0	610.8	613.1	599.2	570.8
24.5°	413.0	424.5	446.4	477.3	517.4	555.9	588.5	607.5	609.9	595.9	567.1
25°	407.6	419.3	441.4	472.4	512.9	551.9	584.8	604.3	606.6	592.5	563.2
25.5°	402.3	413.9	436.3	467.4	508.4	547.7	581.2	600.8	603.3	589.0	559.5
26°	397.0	408.7	431.1	462.6	503.7	543.6	577.5	597.3	599.8	585.4	555.7
26.5°	391.7	403.4	426.1	457.8	499.2	539.4	573.6	593.6	596.2	581.8	551.9
27°	386.3	398.3	421.0	452.8	494.3	535.1	569.6	590.1	592.6	578.1	548.3
27.5°	380.9	393.0	415.9	447.8	489.7	530.7	565.7	586.2	589.0	574.7	544.5
28°	375.5	387.5	410.7	442.9	484.9	526.3	561.7	582.5	585.4	571.2	540.4
28.5°	370.3	382.2	405.6	438.0	480.3	521.9	557.6	578.7	582.0	567.8	535.8
29°	364.9	377.0	400.4	432.9	475.5	517.5	553.5	575.0	578.7	564.0	530.8
29.5°	359.5	371.7	395.2	427.8	470.8	513.3	549.6	571.4	575.1	559.8	525.6
30°	354.2	366.4	390.0	422.8	465.9	508.7	545.7	567.8	571.3	555.1	520.1
30.5°	348.8	361.1	384.7	417.6	460.9	504.1	541.4	563.9	567.2	549.9	514.3
31°	343.4	355.8	379.5	412.1	455.7	499.2	537.1	559.8	562.6	544.4	508.0
31.5°	338.1	350.5	374.1	406.9	450.3	494.0	532.3	555.0	557.5	538.6	501.6
32°	332.7	345.0	368.8	401.4	444.9	488.5	527.1	550.0	552.0	532.3	495.1
32.5°	327.4	339.7	363.5	395.9	439.2	482.7	521.5	544.6	545.9	525.6	488.1
33°	322.2	334.4	358.0	390.4	433.3	476.8	515.9	538.8	539.3	518.4	480.9
33.5°	316.9	329.1	352.6	384.7	427.5	470.8	509.7	532.3	532.1	510.8	473.5
34°	311.6	323.7	347.1	379.0	421.4	464.6	503.4	525.4	524.4	503.1	466.1
34.5°	306.3	318.5	341.7	373.1	415.3	458.3	496.7	518.0	516.6	495.0	458.1
35°	300.9	313.1	336.2	367.3	409.1	451.6	489.5	510.2	508.2	486.6	450.2
35.5°	295.8	307.8	330.7	361.4	402.8	445.0	482.2	502.2	499.6	477.9	442.1
36°	290.6	302.5	325.2	355.5	396.5	438.2	474.7	493.8	490.7	469.1	433.8
36.5°	285.3	297.2	319.7	349.4	390.1	431.3	466.9	485.1	481.5	460.3	425.4
37°	279.9	291.7	314.1	343.5	383.7	424.2	459.0	476.2	472.1	451.1	416.7
37.5°	274.7	286.4	308.6	337.6	377.2	416.9	450.7	467.2	462.7	441.8	408.0
38°	269.4	281.1	302.9	331.6	370.5	410.0	442.4	458.2	453.1	432.3	399.3
38.5°	264.1	275.8	297.5	325.6	364.1	402.3	434.0	448.9	443.5	423.1	390.6
39°	258.9	270.4	292.0	319.7	357.4	394.9	425.5	439.5	433.6	413.4	381.8
39.5°	253.6	265.2	286.4	313.6	350.7	387.3	416.7	429.9	423.9	404.0	373.1
40°	248.3	259.9	280.7	307.6	344.0	379.9	407.9	420.3	414.1	394.4	364.0
40.5°	243.1	254.6	275.3	301.6	337.1	371.7	399.2	410.7	404.3	385.1	355.2
41°	237.8	249.3	269.7	295.6	330.4	364.1	390.4	401.1	394.5	375.3	346.3
41.5°	232.6	244.2	264.2	289.6	323.6	356.3	381.6	391.3	384.6	366.1	337.6
42°	227.3	238.9	258.7	283.5	316.9	348.7	372.5	381.7	375.0	356.4	328.7
42.5°	222.2	233.8	253.3	277.6	310.1	340.5	363.7	372.3	365.5	347.2	320.3
43°	217.0	228.6	247.8	271.4	303.2	332.8	354.9	362.9	355.9	337.8	311.6
43.5°	211.7	223.4	242.4	265.8	296.4	324.8	346.1	353.6	346.4	328.8	303.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	196.4	207.9	226.2	247.9	276.2	301.6	320.1	325.8	319.0	302.2	278.5
45.5°	191.3	202.9	220.9	242.4	269.4	293.8	311.6	317.2	310.1	293.7	270.6
46°	186.4	197.9	215.7	236.6	262.9	286.2	303.3	308.4	301.5	285.2	262.8
46.5°	181.4	192.9	210.3	230.8	256.2	278.8	295.1	300.1	292.9	277.0	255.1
47°	176.4	188.0	205.1	224.9	249.6	271.4	286.7	291.4	284.6	269.0	247.6
47.5°	171.5	183.0	200.0	219.5	243.1	263.9	278.8	283.4	276.5	261.1	240.4
48°	166.6	178.1	194.9	213.9	236.8	256.7	271.1	275.4	268.7	253.5	233.2
48.5°	161.8	173.3	189.8	208.4	230.4	249.7	263.4	267.8	261.1	246.1	226.3
49°	157.1	168.5	184.9	202.7	224.2	242.8	256.0	259.9	253.5	239.0	219.4
49.5°	152.4	163.8	179.9	197.4	218.0	235.7	248.7	252.7	246.4	231.9	212.9
50°	147.7	159.0	174.9	192.0	212.0	229.0	241.5	245.4	239.2	225.1	206.4
50.5°	143.2	154.2	170.1	186.7	205.7	222.4	234.4	238.5	232.3	218.4	200.2
51°	138.7	149.7	165.3	181.5	199.9	215.9	227.8	231.6	225.6	212.0	194.1
51.5°	134.3	145.2	160.5	176.2	194.4	209.5	221.3	225.0	219.3	205.8	188.3
52°	130.0	140.8	155.9	171.1	188.6	203.2	214.7	218.6	213.0	199.9	182.7
52.5°	125.8	136.3	151.2	166.1	182.9	197.0	208.4	212.6	206.9	194.1	177.1
53°	121.7	132.0	146.7	161.1	177.5	191.2	202.3	206.3	201.1	188.4	171.8
53.5°	117.6	127.7	142.0	156.3	172.1	185.4	196.5	200.5	195.3	183.1	166.7
54°	113.8	123.7	137.7	151.5	167.0	179.8	190.8	194.8	189.9	177.9	161.6
54.5°	110.0	119.7	133.5	146.8	161.8	174.3	185.1	189.3	184.6	172.8	156.8
55°	106.3	115.7	129.2	142.2	156.9	169.0	179.9	184.0	179.6	168.0	152.1
55.5°	102.7	111.9	125.0	137.8	152.0	163.9	174.5	178.8	174.5	163.1	147.6
56°	99.4	108.1	121.0	133.3	147.2	158.9	169.4	173.7	169.6	158.7	143.2
56.5°	96.1	104.4	116.9	129.1	142.6	154.0	164.4	168.7	164.9	154.1	138.8
57°	93.0	101.0	112.9	124.9	138.0	149.3	159.5	164.0	160.4	149.8	134.7
57.5°	90.0	97.5	108.9	120.7	133.7	144.6	154.9	159.3	155.9	145.5	130.6
58°	87.4	94.2	105.3	116.8	129.4	140.3	150.3	154.9	151.6	141.5	126.8
58.5°	84.8	90.9	101.6	112.9	125.3	136.0	145.9	150.5	147.4	137.4	122.9
59°	82.5	88.0	98.0	109.2	121.3	131.7	141.6	146.2	143.2	133.4	119.1
59.5°	80.4	85.1	94.5	105.4	117.3	127.5	137.2	142.0	139.2	129.6	115.5
60°	78.8	82.4	91.3	101.8	113.5	123.5	133.1	137.9	135.3	126.0	112.0
60.5°	77.1	79.8	88.0	98.4	109.8	119.6	129.2	133.9	131.5	122.1	108.5
61°	75.3	77.7	84.9	95.0	106.2	115.8	125.3	130.0	127.6	118.5	105.1
61.5°	73.5	75.7	82.0	91.6	102.7	112.1	121.5	126.2	124.0	115.1	101.7
62°	71.6	74.1	79.2	88.5	99.3	108.6	117.7	122.5	120.5	111.7	98.5
62.5°	69.6	72.3	76.4	85.3	95.9	105.0	114.0	118.8	116.9	108.2	95.2
63°	67.7	70.4	73.9	82.3	92.7	101.5	110.4	115.2	113.3	104.8	92.1
63.5°	65.9	68.6	71.3	79.3	89.5	98.3	106.9	111.6	109.9	101.5	89.0
64°	64.0	66.8	68.8	76.6	86.6	95.0	103.5	108.2	106.6	98.4	86.1
64.5°	62.2	64.9	66.5	73.8	83.7	91.9	100.1	104.9	103.2	95.1	83.2
65°	60.4	63.2	64.4	71.1	80.8	88.7	96.9	101.6	100.0	92.1	80.3
65.5°	58.6	61.5	62.3	68.4	77.9	85.8	93.7	98.3	96.7	88.9	77.4
66°	56.8	59.7	60.3	65.9	74.9	82.9	90.5	95.0	93.4	85.9	74.5



TEST NUMBER: P775750

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	51.6	54.5	54.9	58.7	67.0	74.1	81.6	85.8	83.9	77.0	66.3
68°	50.0	52.8	53.3	56.6	64.4	71.4	78.7	82.8	80.8	74.0	63.6
68.5°	48.3	51.1	51.7	54.4	61.9	68.6	75.7	79.8	77.7	71.0	61.1
69°	46.7	49.5	50.2	52.3	59.5	65.9	72.9	76.8	74.5	68.0	58.6
69.5°	45.0	47.9	48.7	50.3	57.1	63.4	69.9	73.7	71.5	65.2	56.1
70°	43.4	46.3	47.2	48.4	54.8	60.8	67.2	70.9	68.4	62.3	53.6
70.5°	41.8	44.7	45.7	46.5	52.6	58.4	64.6	67.9	65.5	59.6	51.3
71°	40.3	43.1	44.2	44.7	50.4	56.0	62.0	65.2	62.6	57.0	49.0
71.5°	38.8	41.6	42.8	42.9	48.3	53.7	59.4	62.3	59.7	54.3	46.6
72°	37.3	40.1	41.3	41.3	46.2	51.4	56.9	59.7	56.9	51.7	44.4
72.5°	36.1	38.6	39.9	39.6	44.2	49.1	54.4	57.0	54.2	49.1	42.2
73°	34.6	37.1	38.5	38.1	42.3	47.0	52.0	54.4	51.5	46.6	40.0
73.5°	33.2	36.1	37.1	36.6	40.4	44.8	49.6	51.9	48.7	44.2	37.9
74°	31.7	34.7	36.3	35.2	38.6	42.8	47.3	49.4	46.2	41.8	35.8
74.5°	30.2	33.2	34.8	33.8	36.8	40.7	45.1	46.9	43.6	39.4	33.8
75°	28.8	31.7	33.4	32.5	35.0	38.7	42.9	44.5	41.1	37.1	31.8
75.5°	27.5	30.2	32.0	31.1	33.3	36.8	40.7	42.2	38.6	34.9	29.9
76°	26.1	28.8	30.5	29.8	31.7	35.0	38.5	39.9	36.1	32.7	28.0
76.5°	24.8	27.5	29.2	28.5	30.1	33.1	36.4	37.6	33.8	30.6	26.1
77°	23.5	26.1	27.9	27.3	28.6	31.3	34.4	35.4	31.5	28.5	24.4
77.5°	22.2	24.8	26.7	26.1	27.0	29.6	32.4	33.3	29.2	26.5	22.6
78°	20.9	23.5	25.4	25.0	25.6	27.9	30.5	31.3	27.0	24.5	21.0
78.5°	19.7	22.2	24.2	23.8	24.2	26.3	28.6	29.2	24.8	22.6	19.3
79°	18.4	21.0	23.0	22.7	22.9	24.7	26.8	27.2	22.7	20.8	17.7
79.5°	17.2	19.7	21.8	21.6	21.5	23.2	25.0	25.4	20.6	19.0	16.2
80°	16.0	18.5	20.6	20.5	20.3	21.7	23.3	23.5	18.6	17.2	14.7
80.5°	14.9	17.3	19.4	19.5	19.1	20.3	21.6	21.7	16.7	15.6	13.3
81°	13.7	16.1	18.3	18.4	17.9	18.9	20.0	19.9	14.8	14.0	11.9
81.5°	12.5	14.9	17.1	17.3	16.8	17.5	18.4	18.1	13.0	12.4	10.6
82°	11.4	13.8	16.0	16.3	15.7	16.2	16.8	16.3	11.3	11.0	9.5
82.5°	10.3	12.6	14.9	15.2	14.6	14.9	15.3	14.6	9.9	9.7	8.3
83°	9.2	11.5	13.8	14.2	13.6	13.8	13.9	13.0	8.5	8.4	7.2
83.5°	8.2	10.4	12.7	13.2	12.6	12.6	12.6	11.5	7.1	7.1	6.1
84°	7.1	9.3	11.7	12.2	11.6	11.4	11.2	10.1	5.7	5.8	4.9
84.5°	6.0	8.2	10.7	11.3	10.7	10.4	10.1	8.7	4.3	4.5	4.1
85°	5.0	7.1	9.7	10.3	9.8	9.4	9.0	7.4	3.3	3.5	3.2
85.5°	4.0	6.1	8.7	9.3	8.9	8.4	7.8	6.0	2.6	2.6	2.5
86°	3.4	5.1	7.8	8.4	8.0	7.5	6.7	4.7	2.0	1.9	1.8
86.5°	2.8	4.3	6.8	7.4	7.2	6.5	5.5	3.7	1.6	1.3	1.2
87°	2.2	3.6	5.9	6.5	6.3	5.5	4.6	2.9	1.2	0.8	0.7
87.5°	1.5	3.0	5.0	5.6	5.5	4.7	3.7	2.1	0.9	0.4	0.3
88°	1.1	2.3	4.1	4.7	4.7	3.8	2.9	1.4	0.6	0.2	0.1
88.5°	0.6	1.7	3.4	3.8	3.8	3.1	2.1	0.9	0.3	0.1	0.0



TEST NUMBER: P775750
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	1.0	1.4	1.5	1.0	0.4	0.1	0.0	0.0	0.0



TEST NUMBER: P775750

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	628.4	628.4	628.4	628.4	628.4	628.4
0.5°	628.9	628.5	627.2	626.3	625.7	625.8
1°	629.4	627.9	625.6	623.9	622.9	623.0
1.5°	629.8	627.2	623.9	621.4	620.0	620.1
2°	630.0	626.3	622.1	618.9	617.0	617.1
2.5°	630.2	625.4	620.2	616.2	614.0	613.9
3°	630.2	624.3	618.2	613.5	610.8	610.7
3.5°	630.0	623.1	616.1	610.6	607.5	607.5
4°	629.8	621.8	613.8	607.7	604.2	604.1
4.5°	629.5	620.4	611.5	604.6	600.8	600.6
5°	629.0	618.9	609.0	601.5	597.2	597.0
5.5°	628.4	617.3	606.5	598.2	593.5	593.4
6°	627.7	615.5	603.9	594.9	589.9	589.6
6.5°	626.9	613.7	601.1	591.4	586.1	585.8
7°	626.0	611.7	598.3	587.9	582.2	581.9
7.5°	624.9	609.6	595.3	584.3	578.2	578.0
8°	623.7	607.4	592.2	580.6	574.2	574.0
8.5°	622.4	605.1	589.1	576.8	570.1	569.8
9°	621.1	602.7	585.8	573.0	566.0	565.7
9.5°	619.6	600.2	582.5	569.0	561.6	561.4
10°	618.0	597.7	579.1	565.0	557.4	557.1
10.5°	616.2	594.9	575.6	560.9	553.0	552.7
11°	614.4	592.1	571.9	556.7	548.6	548.4
11.5°	612.4	589.2	568.2	552.5	544.1	543.8
12°	610.3	586.2	564.5	548.2	539.5	539.3
12.5°	608.2	583.2	560.6	543.8	534.9	534.7
13°	605.9	579.9	556.7	539.3	530.2	530.1
13.5°	603.6	576.6	552.7	534.8	525.6	525.3
14°	601.0	573.3	548.6	530.3	520.8	520.7
14.5°	598.4	569.9	544.5	525.7	516.0	515.8
15°	595.7	566.3	540.3	521.0	511.1	511.1
15.5°	592.9	562.7	536.0	516.3	506.1	506.0
16°	590.1	559.0	531.5	511.5	501.2	501.2
16.5°	587.0	555.2	527.1	506.7	496.3	496.3
17°	584.0	551.4	522.6	501.8	491.1	491.2
17.5°	580.8	547.5	518.1	496.9	486.1	486.1
18°	577.5	543.4	513.5	491.9	480.9	481.1
18.5°	574.2	539.4	508.8	486.8	475.9	475.9
19°	570.8	535.2	504.2	481.8	470.7	470.9
19.5°	567.4	531.1	499.4	476.8	465.5	465.7
20°	563.7	526.8	494.7	471.7	460.3	460.5
20.5°	560.1	522.5	489.8	466.6	455.0	455.2
21°	556.3	518.1	484.9	461.3	449.8	450.1

TEST NUMBER: P775750

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	544.7	504.6	470.1	445.9	433.9	434.2
23°	540.7	500.1	465.2	440.6	428.6	428.9
23.5°	536.6	495.5	460.2	435.4	423.3	423.7
24°	532.5	490.9	455.3	430.3	417.9	418.4
24.5°	528.3	486.3	450.4	425.1	412.6	413.0
25°	524.2	481.8	445.5	419.6	407.3	407.6
25.5°	520.1	477.1	440.3	414.7	402.0	402.3
26°	516.0	472.5	435.4	409.2	396.7	397.0
26.5°	511.8	467.7	430.4	404.2	391.3	391.7
27°	507.4	462.5	425.2	398.9	385.9	386.3
27.5°	502.6	456.9	419.7	393.7	380.6	380.9
28°	497.4	451.5	414.2	388.2	375.3	375.5
28.5°	491.9	445.7	408.6	383.0	370.0	370.3
29°	486.4	440.1	403.0	377.6	364.6	364.9
29.5°	480.7	434.2	397.4	372.2	359.3	359.5
30°	474.6	428.2	391.6	366.4	354.1	354.2
30.5°	468.5	422.1	385.8	361.2	348.7	348.8
31°	462.2	416.0	379.8	355.5	343.2	343.4
31.5°	455.8	409.7	373.8	349.8	337.9	338.1
32°	449.1	403.3	367.8	344.0	332.5	332.7
32.5°	442.4	396.8	361.8	338.6	327.1	327.4
33°	435.6	390.4	355.7	332.9	321.8	322.2
33.5°	428.7	383.8	349.4	327.2	316.4	316.9
34°	421.5	377.3	343.4	321.5	311.0	311.6
34.5°	414.2	370.3	337.1	315.8	305.5	306.3
35°	407.0	363.9	331.1	310.1	300.1	300.9
35.5°	399.7	357.0	324.8	304.4	294.8	295.8
36°	392.3	350.2	318.9	298.7	289.4	290.6
36.5°	384.6	343.4	312.7	293.1	284.0	285.3
37°	376.8	336.6	306.7	287.4	278.6	279.9
37.5°	369.1	329.8	300.4	281.9	273.3	274.7
38°	361.3	322.8	294.5	276.1	267.8	269.4
38.5°	353.5	315.9	288.3	270.5	262.5	264.1
39°	345.5	309.1	282.2	265.0	257.1	258.9
39.5°	337.6	302.3	276.0	259.4	251.8	253.6
40°	329.7	295.3	269.9	253.6	246.5	248.3
40.5°	321.8	288.4	263.7	247.9	241.2	243.1
41°	314.0	281.5	257.5	242.3	236.0	237.8
41.5°	306.0	274.7	251.4	236.8	230.7	232.6
42°	298.3	267.9	245.5	231.4	225.5	227.3
42.5°	290.5	261.1	239.5	226.1	220.4	222.2
43°	282.8	254.3	233.6	220.7	215.3	217.0
43.5°	275.1	247.5	227.8	215.4	210.1	211.7



TEST NUMBER: P775750

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	253.0	227.6	210.6	199.6	194.7	196.4
45.5°	245.8	221.2	204.9	194.5	189.6	191.3
46°	238.8	215.0	199.5	189.5	184.7	186.4
46.5°	231.7	208.6	194.0	184.4	179.7	181.4
47°	224.7	202.6	188.6	179.5	174.9	176.4
47.5°	218.1	196.5	183.2	174.6	170.2	171.5
48°	211.5	190.6	177.8	169.6	165.5	166.6
48.5°	205.1	184.9	172.5	164.8	160.7	161.8
49°	198.9	179.2	167.5	160.1	156.2	157.1
49.5°	192.7	173.9	162.5	155.3	151.7	152.4
50°	186.9	168.4	157.5	150.7	147.1	147.7
50.5°	181.0	163.1	152.5	146.1	142.6	143.2
51°	175.3	158.0	147.7	141.5	138.4	138.7
51.5°	170.0	153.1	143.1	137.0	134.1	134.3
52°	164.8	148.2	138.6	132.8	129.9	130.0
52.5°	159.5	143.4	134.1	128.5	125.7	125.8
53°	154.5	138.8	129.7	124.2	121.6	121.7
53.5°	149.6	134.3	125.4	120.0	117.5	117.6
54°	144.9	129.9	121.2	115.9	113.5	113.8
54.5°	140.2	125.7	117.2	111.9	109.6	110.0
55°	135.9	121.6	113.3	108.0	105.9	106.3
55.5°	131.5	117.6	109.3	104.2	102.1	102.7
56°	127.3	113.7	105.6	100.5	98.6	99.4
56.5°	123.2	109.9	101.9	96.9	95.0	96.1
57°	119.3	106.2	98.3	93.4	91.6	93.0
57.5°	115.4	102.6	94.9	90.0	88.4	90.0
58°	111.7	99.1	91.5	86.8	85.3	87.4
58.5°	108.0	95.8	88.3	83.6	82.4	84.8
59°	104.4	92.5	85.1	80.6	79.6	82.5
59.5°	101.0	89.3	82.1	77.7	77.0	80.4
60°	97.6	86.2	79.1	74.8	74.6	78.8
60.5°	94.4	83.1	76.1	72.1	72.3	77.1
61°	91.3	80.2	73.4	69.4	70.0	75.3
61.5°	88.1	77.3	70.5	66.9	68.1	73.5
62°	85.2	74.6	67.9	64.6	66.4	71.6
62.5°	82.2	71.8	65.4	62.3	64.7	69.6
63°	79.3	69.0	62.8	60.0	63.0	67.7
63.5°	76.3	66.4	60.4	57.9	61.3	65.9
64°	73.7	63.9	58.1	55.9	59.6	64.0
64.5°	71.0	61.5	55.9	54.0	57.9	62.2
65°	68.2	59.1	53.7	52.1	56.3	60.4
65.5°	65.6	56.7	51.5	50.3	54.7	58.6
66°	63.1	54.4	49.5	48.6	53.0	56.8



TEST NUMBER: P775750

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	55.8	47.9	43.7	44.0	48.3	51.6
68°	53.4	45.9	41.9	42.6	46.7	50.0
68.5°	51.2	43.9	40.2	41.3	45.1	48.3
69°	49.0	42.0	38.5	39.9	43.6	46.7
69.5°	46.8	40.1	36.9	38.6	42.0	45.0
70°	44.7	38.2	35.5	37.3	40.6	43.4
70.5°	42.6	36.5	34.0	35.9	39.1	41.8
71°	40.7	34.9	32.6	34.6	37.6	40.3
71.5°	38.7	33.2	31.2	33.4	36.1	38.8
72°	36.7	31.6	29.7	32.2	34.7	37.3
72.5°	34.9	30.0	28.4	31.0	33.4	36.1
73°	33.1	28.4	27.1	29.8	32.0	34.6
73.5°	31.3	26.8	25.9	28.5	30.7	33.2
74°	29.5	25.4	24.7	27.3	29.3	31.7
74.5°	27.9	24.0	23.6	26.1	28.0	30.2
75°	26.3	22.7	22.5	24.9	26.7	28.8
75.5°	24.7	21.4	21.4	23.8	25.4	27.5
76°	23.2	20.1	20.3	22.6	24.1	26.1
76.5°	21.7	18.9	19.3	21.4	22.9	24.8
77°	20.3	17.7	18.3	20.3	21.6	23.5
77.5°	18.9	16.6	17.3	19.2	20.4	22.2
78°	17.6	15.5	16.3	18.1	19.2	20.9
78.5°	16.2	14.4	15.3	17.0	18.0	19.7
79°	15.0	13.3	14.4	15.9	16.8	18.4
79.5°	13.8	12.3	13.4	14.8	15.6	17.2
80°	12.6	11.4	12.5	13.8	14.5	16.0
80.5°	11.5	10.5	11.6	12.8	13.3	14.9
81°	10.4	9.6	10.7	11.8	12.2	13.7
81.5°	9.4	8.7	9.7	10.8	11.1	12.5
82°	8.5	7.8	8.9	9.8	10.0	11.4
82.5°	7.5	7.0	8.0	8.8	8.9	10.3
83°	6.5	6.2	7.1	7.9	7.8	9.2
83.5°	5.6	5.4	6.3	7.0	6.8	8.2
84°	4.7	4.6	5.4	6.1	5.8	7.1
84.5°	3.9	3.9	4.6	5.3	4.9	6.0
85°	3.2	3.2	3.8	4.4	4.1	5.0
85.5°	2.4	2.5	3.0	3.6	3.5	4.0
86°	1.8	1.7	2.2	2.9	2.9	3.4
86.5°	1.2	1.0	1.5	2.1	2.3	2.8
87°	0.6	0.4	0.7	1.4	1.7	2.2
87.5°	0.2	0.1	0.2	0.6	1.1	1.5
88°	0.0	0.0	0.0	0.1	0.6	1.1
88.5°	0.0	0.0	0.0	0.0	0.2	0.6



TEST NUMBER: P775750
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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

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21.5°	444.8	455.7	476.4	505.7	543.2	578.7	608.3	625.6	627.6	614.5	588.0
22°	439.6	450.6	471.5	501.2	539.1	575.0	605.2	622.8	624.9	611.6	584.8



44°	206.6	218.2	236.9	259.8	289.7	317.2	337.3	343.9	337.0	319.6	294.8
44.5°	201.5	213.2	231.5	253.9	283.0	309.2	328.5	334.8	328.1	310.8	286.7



66.5°	55.0	57.9	58.4	63.4	72.3	79.9	87.5	91.9	90.1	83.0	71.7
67°	53.3	56.2	56.6	61.1	69.5	77.0	84.6	88.9	87.0	80.0	69.0



89°	0.3	1.1	2.6	3.0	3.0	2.4	1.4	0.5	0.1	0.0	0.0
89.5°	0.0	0.6	1.8	2.2	2.3	1.7	0.9	0.2	0.0	0.0	0.0

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21.5°	552.6	513.6	479.8	456.2	444.4	444.8
22°	548.6	509.2	475.1	451.1	439.2	439.6



44°	267.6	240.8	222.1	209.9	204.9	206.6
44.5°	260.3	234.3	216.4	204.8	199.8	201.5



66.5°	60.6	52.2	47.5	47.0	51.4	55.0
67°	58.1	50.1	45.6	45.5	49.8	53.3

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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)