

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: P775779

Luminaire Tested: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B013)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K
Description: 6 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

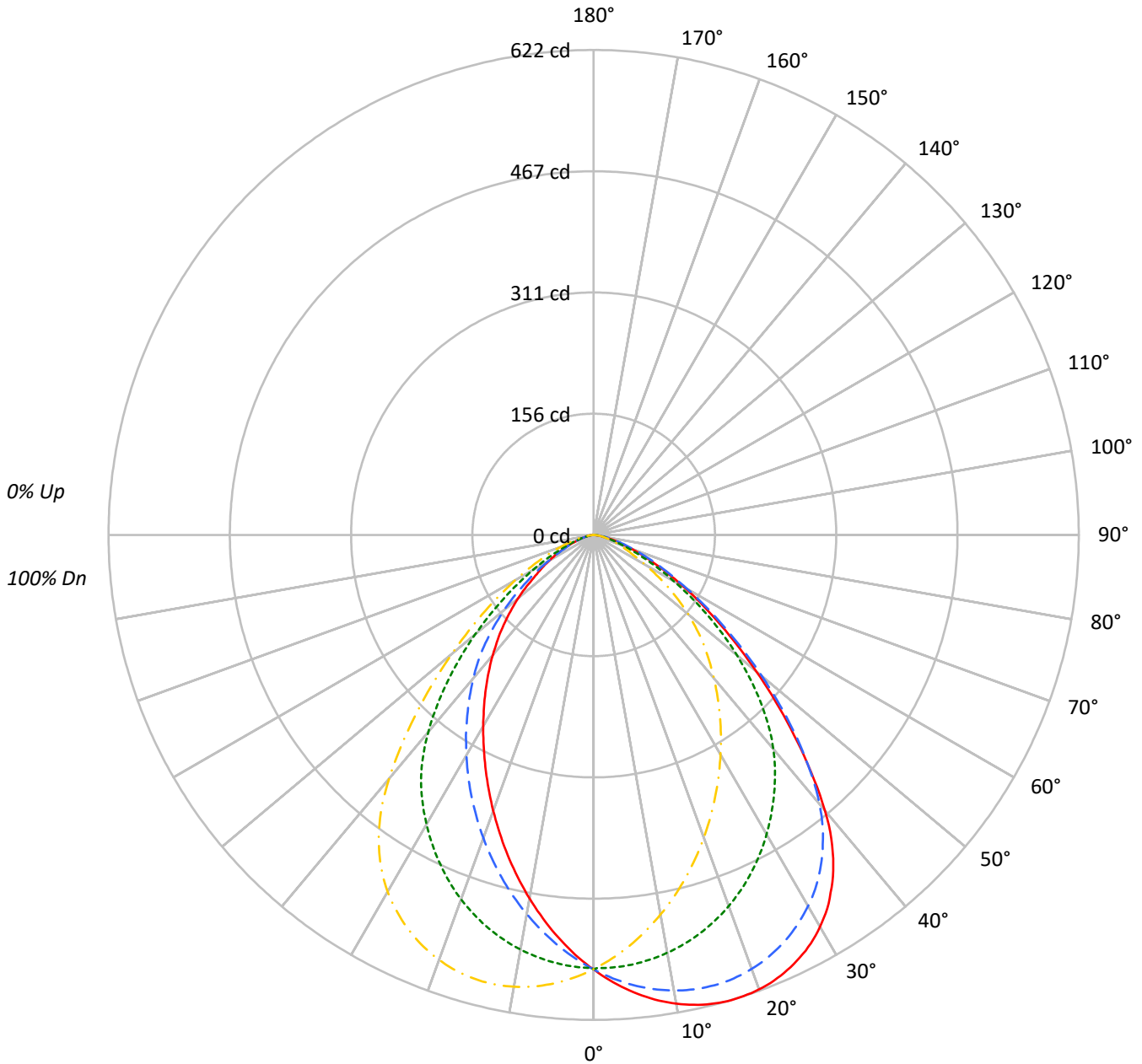
Lumens per Lamp: N/A
Luminaire Lumens: 1095.1 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.23
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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	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	100	100	100	100		
	1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89	89	89	89	89	89		
	2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77	77	77	77	77	77		
	3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68	68	68	68	68	68		
	4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60	60	60	60	60	60		
	5	82	70	63	57	80	69	62	56	67	61	56	66	60	55	64	59	55	53	53	53	53	53	53		
	6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47	47	47	47	47	47		
	7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42	42	42	42	42	42		
	8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38	38	38	38	38	38		
	9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35	35	35		
	10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32	32	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30535	30535	30535	30535
5°	32412	30448	28527	30332
10°	33984	30293	26352	30060
15°	35256	30000	24137	29626
20°	36181	29554	21953	29000
25°	36728	28907	19864	28169
30°	36746	28061	17927	27131
35°	35784	27003	16122	25819
40°	33012	25648	14398	23601
45°	28189	23437	12645	20467
50°	23232	20451	10763	16878
55°	18637	16850	8726	13189
60°	14648	13058	7203	9890
65°	11130	9573	5630	7069
70°	8223	6716	4183	4873
75°	5825	4681	3114	3198
80°	3662	3346	2210	2020
85°	1195	2642	1132	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 28988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	4.8
10°-20°	147.7	13.5
20°-30°	215.9	19.7
30°-40°	242.7	22.2
40°-50°	209.3	19.1
50°-60°	134.4	12.3
60°-70°	65.2	6.0
70°-80°	23.3	2.1
80°-90°	4.0	0.4
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°	416.1	38.0
0°-40°	658.8	60.2
0°-60°	1002.5	91.5
0°-90°	1095.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	557	557	557	557	557	
5°	589	553	518	551	589	57
15°	621	529	425	522	621	176
25°	607	478	328	466	607	279
35°	535	404	241	386	535	332
45°	364	302	163	264	364	280
55°	195	176	91	138	195	176
65°	86	74	43	54	86	87
75°	28	22	15	15	28	30
85°	2	4	2	2	2	4
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°	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0
0.5°	561.2	560.8	559.9	558.6	555.6	554.9	554.5	554.3	554.0	554.2	554.8
1°	564.5	564.0	562.4	559.9	555.6	553.6	551.9	551.0	550.3	550.6	552.0
1.5°	567.9	567.2	564.7	561.2	555.6	552.0	549.2	547.4	546.6	547.1	549.4
2°	571.2	570.2	567.1	562.5	555.5	550.5	546.6	543.9	542.9	543.7	546.5
2.5°	574.4	573.1	569.4	563.5	555.3	548.9	543.7	540.3	538.9	540.0	543.6
3°	577.5	576.0	571.4	564.6	555.0	547.3	540.9	536.7	534.9	536.2	540.6
3.5°	580.5	578.8	573.7	565.7	554.7	545.6	537.9	532.8	530.9	532.5	537.7
4°	583.4	581.7	575.6	566.5	554.3	543.8	535.0	529.0	526.8	528.7	534.6
4.5°	586.2	584.1	577.6	567.4	553.8	541.9	531.9	525.2	522.6	524.8	531.5
5°	589.0	586.8	579.4	568.1	553.3	540.1	528.8	521.2	518.4	520.8	528.4
5.5°	591.6	589.1	581.2	568.9	552.7	537.9	525.6	517.3	514.2	516.8	525.2
6°	594.1	591.5	582.9	569.5	552.0	535.9	522.4	513.1	509.7	512.8	521.8
6.5°	596.5	593.7	584.5	570.0	551.3	533.9	519.0	509.1	505.4	508.6	518.5
7°	598.8	595.8	586.0	570.6	550.4	531.7	515.7	504.9	501.0	504.6	515.1
7.5°	601.1	597.9	587.5	570.9	549.6	529.4	512.3	500.6	496.5	500.4	511.7
8°	603.1	599.9	588.8	571.2	548.6	527.2	508.7	496.5	491.9	496.0	508.2
8.5°	605.1	601.8	590.1	571.5	547.6	524.8	505.1	492.0	487.4	491.8	504.7
9°	607.0	603.5	591.3	571.6	546.6	522.4	501.6	487.7	482.7	487.5	501.2
9.5°	608.8	605.2	592.3	571.8	545.4	519.9	498.0	483.4	478.0	483.0	497.4
10°	610.5	606.8	593.3	571.8	544.2	517.4	494.3	479.0	473.4	478.7	493.9
10.5°	612.1	608.3	594.2	571.7	543.0	514.8	490.6	474.5	468.9	474.3	490.2
11°	613.6	609.6	595.1	571.6	541.7	512.1	486.8	469.9	464.0	469.8	486.5
11.5°	614.9	610.9	595.7	571.4	540.2	509.4	482.9	465.5	459.2	465.3	482.6
12°	616.2	611.9	596.4	571.1	538.8	506.7	479.1	460.9	454.5	460.9	478.9
12.5°	617.4	613.0	596.9	570.8	537.2	503.8	475.3	456.3	449.7	456.2	475.0
13°	618.3	613.9	597.3	570.4	535.7	501.1	471.3	451.7	444.8	451.7	471.1
13.5°	619.3	614.7	597.6	569.7	534.0	498.2	467.4	447.1	440.0	447.1	467.3
14°	620.0	615.3	597.9	569.2	532.3	495.2	463.3	442.3	435.1	442.5	463.3
14.5°	620.7	616.0	597.9	568.4	530.5	492.2	459.3	437.6	430.3	437.7	459.3
15°	621.2	616.4	598.0	567.6	528.6	489.1	455.2	432.9	425.3	433.1	455.2
15.5°	621.6	616.7	597.9	566.7	526.8	486.0	451.1	428.4	420.5	428.6	451.2
16°	622.0	617.0	597.6	565.9	524.7	482.9	447.0	423.6	415.6	423.9	447.1
16.5°	622.2	617.0	597.4	564.8	522.7	479.6	442.7	418.8	410.7	419.2	443.1
17°	622.3	617.0	597.0	563.6	520.6	476.4	438.7	414.1	405.8	414.5	438.9
17.5°	622.2	617.0	596.5	562.4	518.4	473.1	434.4	409.3	400.7	409.7	434.7
18°	622.1	616.8	595.9	561.2	516.2	469.8	430.2	404.5	395.9	405.1	430.6
18.5°	621.7	616.5	595.1	559.7	513.9	466.4	425.9	399.8	391.0	400.3	426.3
19°	621.4	616.1	594.3	558.3	511.4	463.0	421.6	395.0	386.1	395.5	422.2
19.5°	620.9	615.6	593.4	556.7	509.1	459.6	417.5	390.2	381.2	390.9	418.0
20°	620.2	614.9	592.4	555.0	506.6	456.1	413.2	385.5	376.3	386.2	413.7
20.5°	619.5	614.1	591.3	553.3	503.9	452.6	408.7	380.8	371.6	381.4	409.5
21°	618.6	613.2	590.1	551.5	501.3	448.9	404.4	376.0	366.6	376.8	405.1



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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°	615.3	609.9	585.8	545.4	493.1	437.9	391.5	361.9	352.2	362.7	392.2
23°	614.0	608.5	584.1	543.3	490.2	434.2	387.0	357.1	347.3	358.0	387.8
23.5°	612.6	607.0	582.4	541.0	487.2	430.5	382.6	352.6	342.6	353.3	383.5
24°	610.9	605.4	580.5	538.6	484.2	426.6	378.2	347.8	337.8	348.6	379.2
24.5°	609.2	603.7	578.6	536.2	481.1	422.9	373.8	343.2	333.0	343.9	374.8
25°	607.2	601.9	576.4	533.7	477.9	419.1	369.3	338.4	328.4	339.3	370.5
25.5°	605.2	599.9	574.3	531.1	474.8	415.1	365.0	333.9	323.8	334.8	366.1
26°	603.2	597.9	572.1	528.4	471.5	411.2	360.7	329.2	319.2	330.2	361.6
26.5°	600.8	595.6	569.6	525.7	468.2	407.2	356.2	324.6	314.5	325.5	357.2
27°	598.5	593.3	567.1	522.7	464.9	403.3	351.7	320.0	309.9	321.0	352.9
27.5°	595.9	590.8	564.5	519.8	461.4	399.2	347.3	315.7	305.3	316.4	348.5
28°	593.3	588.2	561.7	516.7	457.9	395.2	343.0	311.1	300.8	311.9	344.1
28.5°	590.4	585.5	558.8	513.6	454.4	391.1	338.6	306.6	296.4	307.5	339.8
29°	587.3	582.6	555.9	510.3	450.7	387.1	334.1	302.0	292.0	303.0	335.3
29.5°	584.0	579.5	552.9	507.1	447.1	382.9	329.7	297.8	287.5	298.4	330.9
30°	580.5	576.3	549.7	503.8	443.3	378.9	325.3	293.3	283.2	294.0	326.4
30.5°	576.9	572.9	546.4	500.2	439.5	374.7	321.0	288.9	278.8	289.5	322.1
31°	573.1	569.3	543.0	496.7	435.8	370.5	316.6	284.6	274.5	285.2	317.7
31.5°	569.1	565.5	539.4	493.1	431.8	366.3	312.3	280.3	270.1	280.8	313.2
32°	565.0	561.4	535.7	489.3	427.9	362.1	307.9	276.0	266.0	276.4	309.0
32.5°	560.5	557.1	531.8	485.5	424.0	357.9	303.5	271.7	261.7	272.2	304.6
33°	555.6	552.8	527.7	481.7	419.9	353.5	299.1	267.6	257.6	267.9	300.0
33.5°	550.5	548.2	523.4	477.7	416.0	349.2	294.9	263.4	253.4	263.5	295.6
34°	545.6	543.5	519.0	473.6	411.8	345.0	290.5	259.2	249.3	259.5	291.4
34.5°	540.2	538.4	514.3	469.3	407.7	340.7	286.2	255.0	245.0	255.2	287.0
35°	534.7	533.1	509.5	465.0	403.5	336.5	282.0	250.8	240.9	251.0	282.6
35.5°	528.9	527.8	504.5	460.5	399.4	332.1	277.7	246.8	236.9	246.9	278.2
36°	522.6	522.1	499.4	456.0	395.1	327.8	273.6	242.7	232.9	242.7	274.0
36.5°	516.2	516.2	494.0	451.1	390.6	323.4	269.3	238.6	228.8	238.6	269.6
37°	509.4	510.0	488.5	446.2	386.3	319.2	265.0	234.5	224.8	234.4	265.3
37.5°	502.3	503.5	482.7	440.9	381.9	314.7	260.9	230.6	220.8	230.4	261.0
38°	495.0	496.9	476.8	435.7	377.3	310.3	256.6	226.5	216.8	226.3	256.7
38.5°	487.1	490.0	470.6	430.3	372.7	306.1	252.4	222.6	213.0	222.3	252.4
39°	479.1	482.7	464.2	424.6	368.1	301.6	248.4	218.5	209.1	218.2	248.3
39.5°	470.5	474.8	457.6	418.8	363.3	297.3	244.2	214.7	205.1	214.2	244.1
40°	461.3	466.6	450.5	412.7	358.4	292.9	240.0	210.8	201.2	210.2	239.9
40.5°	451.8	458.2	443.1	406.5	353.3	288.5	235.9	206.8	197.3	206.3	235.7
41°	442.2	449.5	435.4	400.0	348.2	284.2	231.8	202.9	193.5	202.2	231.7
41.5°	432.5	440.1	427.5	393.4	342.9	279.8	227.7	198.9	189.5	198.4	227.4
42°	422.4	430.8	419.5	386.6	337.5	275.5	223.6	195.1	185.8	194.5	223.1
42.5°	412.6	421.4	411.3	379.7	331.9	271.0	219.6	191.3	182.0	190.6	218.8
43°	402.8	411.9	402.9	372.7	326.0	266.4	215.6	187.4	178.1	186.8	214.3
43.5°	392.9	402.4	394.2	365.6	320.3	261.7	211.6	183.6	174.4	182.9	209.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	363.6	373.9	368.8	343.7	302.3	247.1	199.8	172.2	163.1	171.5	196.2
45.5°	354.4	364.5	359.9	336.2	296.1	242.0	195.8	168.4	159.4	167.8	191.5
46°	344.9	355.0	351.2	328.9	290.0	237.0	191.8	164.6	155.6	164.0	186.8
46.5°	335.1	345.4	342.4	321.2	283.7	231.9	187.7	160.9	151.8	160.1	182.3
47°	326.0	336.0	333.7	313.6	277.4	226.8	183.5	157.1	148.2	156.2	177.6
47.5°	316.4	326.8	324.7	305.9	271.1	221.5	179.3	153.4	144.5	152.3	172.8
48°	307.5	317.6	316.0	298.3	264.9	216.4	175.2	149.8	140.8	148.4	168.1
48.5°	298.7	308.6	307.2	290.5	258.5	211.3	170.9	145.9	137.1	144.5	163.5
49°	289.7	299.7	298.5	282.9	252.2	206.1	166.6	142.2	133.4	140.5	158.8
49.5°	281.1	290.7	290.1	275.2	245.8	200.9	162.4	138.6	129.7	136.6	154.2
50°	272.4	281.9	281.2	267.4	239.8	195.6	158.2	135.0	126.2	132.7	149.5
50.5°	263.6	273.2	272.9	259.6	233.3	190.3	153.8	131.1	122.6	128.7	145.0
51°	255.6	264.7	264.6	252.1	226.8	185.0	149.5	127.3	118.9	124.6	140.3
51.5°	247.4	256.4	256.4	244.6	220.5	180.0	145.2	123.7	115.4	120.8	135.9
52°	239.2	248.2	248.3	237.1	214.2	174.7	140.9	120.0	111.8	116.8	131.3
52.5°	231.8	240.1	240.3	229.4	207.7	169.5	136.6	116.2	108.2	113.0	126.9
53°	223.8	232.3	232.4	222.2	201.3	164.3	132.4	112.5	104.7	109.1	122.4
53.5°	216.4	224.5	224.7	214.9	195.0	159.2	128.1	108.8	101.1	105.2	118.0
54°	208.8	216.8	217.2	207.8	188.8	154.0	123.8	105.1	97.7	101.4	113.6
54.5°	201.6	209.5	209.9	200.6	182.5	149.0	119.6	101.4	94.1	97.7	109.4
55°	195.0	202.2	202.4	193.6	176.3	144.1	115.5	97.9	91.3	94.1	105.1
55.5°	188.0	195.2	195.4	186.8	170.1	139.0	111.3	94.2	88.5	90.5	101.1
56°	181.6	188.3	188.5	180.1	164.1	134.0	107.1	90.9	85.6	87.0	96.9
56.5°	174.8	181.6	181.7	173.3	158.2	129.2	103.1	87.6	82.7	83.5	93.1
57°	168.7	174.9	175.1	166.8	152.3	124.3	99.1	84.3	80.7	80.0	89.2
57.5°	162.6	168.5	168.4	160.6	146.6	119.4	95.2	81.0	78.3	76.5	85.3
58°	156.5	162.4	162.2	154.4	140.7	114.8	91.5	79.1	75.7	73.3	81.4
58.5°	150.7	156.3	156.1	148.4	135.2	110.1	87.6	76.9	73.1	70.6	77.6
59°	144.9	150.3	150.1	142.4	129.7	105.5	83.9	74.4	70.6	68.4	74.0
59.5°	139.3	144.8	144.3	136.7	124.3	101.1	80.2	71.9	68.1	66.2	70.5
60°	133.6	139.1	138.6	131.1	119.1	96.7	76.4	69.4	65.7	64.0	67.1
60.5°	128.1	133.6	133.0	125.6	113.9	92.4	72.9	66.8	63.2	61.6	63.9
61°	123.0	128.1	127.7	120.4	109.0	88.3	69.5	64.4	60.9	59.3	60.8
61.5°	117.9	123.0	122.5	115.1	104.2	84.0	66.4	61.9	58.6	57.0	57.7
62°	112.9	117.9	117.6	110.1	99.5	79.8	63.3	59.6	56.4	54.8	54.9
62.5°	108.0	113.0	112.7	105.3	95.1	76.1	60.3	57.4	54.2	52.7	52.1
63°	103.4	108.2	107.9	100.6	90.7	72.3	57.5	55.1	51.9	50.5	49.5
63.5°	98.8	103.6	103.3	96.1	86.4	68.7	55.1	53.0	49.8	48.5	47.0
64°	94.2	99.0	98.8	91.5	82.0	65.1	53.1	50.9	47.7	46.5	44.7
64.5°	89.9	94.9	94.6	87.2	77.7	61.7	51.1	48.8	45.5	44.5	42.4
65°	85.8	90.6	90.3	83.0	73.8	58.5	49.0	46.8	43.4	42.4	40.4
65.5°	81.9	86.6	86.2	79.1	70.0	55.3	47.1	44.9	41.5	40.5	38.5
66°	77.8	82.5	82.3	75.3	66.3	52.2	45.1	42.9	39.6	38.6	36.8



TEST NUMBER: P775779

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	67.1	71.5	71.3	64.5	56.2	44.1	39.7	37.4	34.0	33.2	32.2
68°	63.6	68.1	67.9	61.1	53.1	41.7	38.0	35.7	32.3	31.4	30.8
68.5°	60.4	64.8	64.5	57.9	50.0	39.3	36.2	34.0	30.7	29.9	29.4
69°	57.2	61.7	61.3	54.8	47.2	37.2	34.6	32.4	29.1	28.3	28.0
69.5°	54.2	58.6	58.3	51.8	44.5	35.1	33.2	30.8	27.6	26.8	26.8
70°	51.3	55.5	55.2	48.9	41.9	33.2	31.7	29.3	26.1	25.3	25.4
70.5°	48.5	52.8	52.5	46.3	39.3	31.3	30.3	27.9	24.8	23.9	24.1
71°	45.7	50.0	49.7	43.6	37.1	29.6	28.9	26.5	23.5	22.6	22.9
71.5°	43.1	47.4	47.0	41.2	34.9	27.9	27.5	25.2	22.2	21.3	21.7
72°	40.6	44.8	44.5	38.8	32.7	26.4	26.1	23.9	21.0	20.1	20.5
72.5°	38.0	42.3	42.0	36.8	30.7	24.9	24.9	22.7	19.8	19.1	19.4
73°	35.8	39.9	39.6	34.6	28.8	23.6	23.7	21.5	18.8	17.9	18.3
73.5°	33.7	38.2	37.5	32.6	27.0	22.3	22.5	20.4	17.7	17.0	17.3
74°	31.6	35.9	35.4	30.5	25.3	21.1	21.3	19.3	16.6	15.9	16.2
74.5°	29.4	33.8	33.4	28.4	23.7	19.9	20.3	18.2	15.7	14.9	15.2
75°	27.5	31.7	31.2	26.5	22.1	18.9	19.1	17.2	14.7	14.1	14.3
75.5°	25.5	29.5	29.2	24.8	20.6	17.9	18.1	16.2	13.9	13.1	13.4
76°	23.7	27.6	27.3	23.1	19.2	17.0	17.2	15.2	12.9	12.3	12.6
76.5°	22.0	25.8	25.5	21.5	17.9	16.0	16.2	14.4	12.0	11.4	11.7
77°	20.3	24.1	23.8	20.0	16.6	15.1	15.2	13.4	11.3	10.7	11.0
77.5°	18.7	22.5	22.1	18.7	15.5	14.3	14.4	12.6	10.6	9.9	10.2
78°	17.2	20.9	20.5	17.3	14.3	13.4	13.5	11.7	9.8	9.2	9.5
78.5°	15.7	19.4	19.0	15.9	13.2	12.7	12.7	10.9	9.1	8.5	8.8
79°	14.3	18.0	17.5	14.7	12.3	11.9	11.8	10.1	8.4	7.9	8.2
79.5°	12.9	16.6	16.1	13.5	11.3	11.2	11.1	9.4	7.8	7.1	7.6
80°	11.6	15.4	14.8	12.4	10.6	10.4	10.3	8.7	7.0	6.5	6.8
80.5°	10.4	14.1	13.6	11.4	9.7	9.8	9.6	8.0	6.4	5.9	6.2
81°	9.3	12.9	12.5	10.4	9.1	9.2	9.0	7.2	5.9	5.3	5.7
81.5°	8.1	11.7	11.3	9.5	8.3	8.5	8.2	6.5	5.2	4.8	5.1
82°	7.0	10.7	10.2	8.6	7.7	7.8	7.6	5.9	4.7	4.3	4.6
82.5°	6.1	9.6	9.3	7.9	6.9	7.1	6.8	5.3	4.2	3.7	4.1
83°	5.1	8.6	8.3	7.1	6.3	6.5	6.2	4.7	3.6	3.2	3.6
83.5°	4.2	7.7	7.5	6.4	5.8	6.0	5.5	4.2	3.2	2.8	3.2
84°	3.4	6.7	6.6	5.7	5.1	5.4	5.0	3.6	2.8	2.2	2.8
84.5°	2.7	5.9	5.9	5.0	4.7	4.9	4.5	3.1	2.2	1.9	2.3
85°	1.9	5.0	5.1	4.5	4.2	4.4	3.9	2.7	1.8	1.5	2.0
85.5°	1.2	4.2	4.4	3.8	3.6	3.8	3.4	2.2	1.5	1.3	1.6
86°	0.9	3.6	3.8	3.4	3.2	3.4	3.0	1.9	1.2	1.1	1.3
86.5°	0.6	3.0	3.3	2.9	2.8	2.9	2.6	1.6	1.0	0.9	1.0
87°	0.5	2.3	2.7	2.3	2.3	2.5	2.1	1.3	0.7	0.6	0.6
87.5°	0.3	1.8	2.1	1.9	1.9	2.0	1.7	1.1	0.5	0.4	0.3
88°	0.2	1.3	1.6	1.5	1.6	1.6	1.4	0.7	0.3	0.2	0.1
88.5°	0.1	0.7	1.1	1.1	1.3	1.2	1.0	0.5	0.2	0.1	0.0



TEST NUMBER: P775779

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.0



TEST NUMBER: P775779

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	557.0	557.0	557.0	557.0	557.0	557.0
0.5°	555.7	555.4	557.5	559.3	560.8	561.2
1°	554.3	555.3	558.6	561.7	564.0	564.5
1.5°	552.7	555.0	559.7	563.9	566.9	567.9
2°	551.0	554.7	560.8	566.1	569.9	571.2
2.5°	549.2	554.3	561.6	568.2	572.7	574.4
3°	547.5	553.8	562.5	570.1	575.6	577.5
3.5°	545.6	553.3	563.3	572.1	578.1	580.5
4°	543.7	552.7	564.0	573.9	580.8	583.4
4.5°	541.7	551.9	564.6	575.6	583.3	586.2
5°	539.7	551.2	565.1	577.3	585.7	589.0
5.5°	537.6	550.4	565.7	578.8	588.1	591.6
6°	535.4	549.6	566.1	580.3	590.2	594.1
6.5°	533.3	548.6	566.3	581.7	592.3	596.5
7°	531.0	547.5	566.5	582.9	594.2	598.8
7.5°	528.7	546.5	566.7	584.1	596.2	601.1
8°	526.3	545.3	566.7	585.2	598.0	603.1
8.5°	523.9	544.0	566.7	586.1	599.7	605.1
9°	521.4	542.9	566.6	587.0	601.3	607.0
9.5°	518.9	541.4	566.4	587.8	602.8	608.8
10°	516.3	540.0	566.1	588.5	604.1	610.5
10.5°	513.7	538.6	565.8	589.0	605.4	612.1
11°	511.0	537.0	565.2	589.5	606.6	613.6
11.5°	508.3	535.3	564.7	589.9	607.6	614.9
12°	505.4	533.6	564.1	590.2	608.5	616.2
12.5°	502.6	531.8	563.3	590.3	609.4	617.4
13°	499.7	530.0	562.6	590.4	610.0	618.3
13.5°	496.8	528.1	561.6	590.3	610.5	619.3
14°	493.8	526.1	560.7	590.2	611.1	620.0
14.5°	490.7	524.1	559.6	589.9	611.4	620.7
15°	487.6	522.0	558.3	589.5	611.6	621.2
15.5°	484.5	519.7	557.0	589.0	611.7	621.6
16°	481.3	517.6	555.7	588.5	611.7	622.0
16.5°	478.1	515.2	554.4	587.7	611.6	622.2
17°	474.8	512.9	552.8	587.0	611.4	622.3
17.5°	471.5	510.4	551.2	586.0	611.1	622.2
18°	468.1	507.9	549.5	585.1	610.7	622.1
18.5°	464.7	505.3	547.6	583.9	610.0	621.7
19°	461.3	502.7	545.7	582.7	609.4	621.4
19.5°	457.8	500.0	543.8	581.3	608.5	620.9
20°	454.3	497.1	541.7	579.9	607.7	620.2
20.5°	450.7	494.3	539.5	578.4	606.6	619.5
21°	447.0	491.5	537.3	576.8	605.4	618.6

TEST NUMBER: P775779

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	436.0	482.2	530.1	571.2	601.3	615.3
23°	432.2	479.1	527.4	569.1	599.7	614.0
23.5°	428.6	475.9	524.7	566.9	598.0	612.6
24°	424.6	472.6	522.0	564.7	596.0	610.9
24.5°	420.7	469.3	519.1	562.3	594.0	609.2
25°	416.8	465.7	516.1	559.7	591.9	607.2
25.5°	413.0	462.3	513.1	557.0	589.5	605.2
26°	409.1	458.7	510.0	554.4	587.3	603.2
26.5°	404.9	455.3	506.9	551.5	584.7	600.8
27°	401.0	451.5	503.6	548.5	582.2	598.5
27.5°	396.9	447.6	500.2	545.5	579.4	595.9
28°	392.9	444.1	496.7	542.3	576.4	593.3
28.5°	388.7	440.3	493.2	539.0	573.3	590.4
29°	384.5	436.5	489.5	535.6	570.1	587.3
29.5°	380.5	432.6	485.7	532.0	566.6	584.0
30°	376.2	428.6	482.1	528.2	563.0	580.5
30.5°	372.0	424.6	478.0	524.3	559.1	576.9
31°	367.8	420.5	474.2	520.2	555.0	573.1
31.5°	363.5	416.6	470.0	515.9	550.6	569.1
32°	359.3	412.1	465.8	511.4	546.3	565.0
32.5°	355.0	408.0	461.3	506.8	541.7	560.5
33°	350.6	403.6	456.6	501.9	537.0	555.6
33.5°	346.4	399.5	452.0	496.9	532.0	550.5
34°	342.0	395.0	446.9	491.5	526.4	545.6
34.5°	337.7	390.4	441.7	485.9	520.7	540.2
35°	333.3	385.8	436.3	480.3	514.8	534.7
35.5°	329.0	380.9	430.8	474.4	508.8	528.9
36°	324.6	375.8	425.2	468.2	502.6	522.6
36.5°	320.1	370.8	419.3	461.8	495.9	516.2
37°	315.7	365.5	413.0	455.0	488.9	509.4
37.5°	311.1	359.7	406.7	448.0	481.6	502.3
38°	306.6	354.0	399.8	440.7	473.8	495.0
38.5°	302.0	348.3	393.1	433.0	465.8	487.1
39°	297.3	342.3	385.7	424.9	457.4	479.1
39.5°	292.4	336.0	378.7	416.4	448.4	470.5
40°	287.4	329.8	371.0	407.7	439.0	461.3
40.5°	282.1	323.4	363.5	399.2	429.6	451.8
41°	276.9	317.1	356.0	390.3	420.0	442.2
41.5°	271.4	310.8	348.3	381.4	410.3	432.5
42°	265.9	304.0	340.7	372.6	400.4	422.4
42.5°	260.6	297.4	332.9	363.7	390.9	412.6
43°	255.0	290.8	324.9	354.7	381.4	402.8
43.5°	249.5	284.3	317.2	345.7	371.7	392.9



TEST NUMBER: P775779

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	232.7	264.0	293.4	319.2	343.5	363.6
45.5°	227.2	257.5	285.5	310.6	334.3	354.4
46°	221.5	250.6	277.6	301.7	325.0	344.9
46.5°	216.0	244.1	269.9	293.4	316.2	335.1
47°	210.2	237.4	262.3	285.0	307.1	326.0
47.5°	204.5	230.6	254.3	276.8	298.2	316.4
48°	198.9	224.0	246.7	268.5	289.4	307.5
48.5°	193.4	217.4	239.3	260.8	281.0	298.7
49°	187.6	211.1	232.1	252.8	272.5	289.7
49.5°	182.2	204.4	224.7	245.0	264.4	281.1
50°	176.7	197.9	217.4	237.4	256.0	272.4
50.5°	171.1	191.4	210.7	229.8	248.2	263.6
51°	165.7	185.1	203.6	222.6	240.3	255.6
51.5°	160.6	178.7	197.0	215.3	232.5	247.4
52°	154.9	172.7	190.5	208.4	225.1	239.2
52.5°	149.6	166.7	184.0	201.6	217.7	231.8
53°	144.3	160.6	177.6	194.8	210.4	223.8
53.5°	139.2	154.7	171.4	188.3	203.5	216.4
54°	134.0	149.1	165.5	181.7	196.5	208.8
54.5°	129.1	143.5	159.5	175.6	189.9	201.6
55°	124.1	138.0	153.7	169.3	183.4	195.0
55.5°	119.1	132.7	148.2	163.4	177.0	188.0
56°	114.3	127.5	142.5	157.6	170.8	181.6
56.5°	109.6	122.4	137.2	151.9	164.5	174.8
57°	105.0	117.5	131.9	146.3	158.6	168.7
57.5°	100.5	112.6	126.9	140.8	152.9	162.6
58°	96.2	107.9	121.9	135.7	147.3	156.5
58.5°	92.1	103.2	116.8	130.5	141.8	150.7
59°	88.0	98.8	112.4	125.5	136.5	144.9
59.5°	83.8	94.5	107.5	120.6	131.4	139.3
60°	79.7	90.2	103.2	115.9	126.3	133.6
60.5°	76.0	86.1	98.8	111.2	121.6	128.1
61°	72.4	82.1	94.6	106.6	116.6	123.0
61.5°	68.8	78.3	90.5	102.5	112.0	117.9
62°	65.2	74.5	86.6	98.2	107.6	112.9
62.5°	61.9	70.9	82.6	94.0	103.1	108.0
63°	58.7	67.3	78.9	90.0	98.7	103.4
63.5°	55.6	63.9	75.2	86.2	94.5	98.8
64°	52.7	60.7	71.6	82.4	90.3	94.2
64.5°	49.9	57.5	68.3	78.8	86.5	89.9
65°	47.2	54.5	65.0	75.2	82.5	85.8
65.5°	44.6	51.6	61.8	71.9	78.8	81.9
66°	42.1	48.7	58.6	68.5	75.1	77.8



TEST NUMBER: P775779

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	35.4	40.9	50.2	59.3	64.9	67.1
68°	33.4	38.7	47.4	56.3	61.8	63.6
68.5°	31.3	36.6	44.9	53.5	58.7	60.4
69°	29.6	34.5	42.4	50.7	55.9	57.2
69.5°	27.8	32.5	40.1	48.2	52.9	54.2
70°	26.2	30.4	38.0	45.6	50.2	51.3
70.5°	24.6	28.4	35.8	43.2	47.5	48.5
71°	23.2	26.7	33.8	40.8	45.1	45.7
71.5°	21.7	24.9	31.8	38.6	42.5	43.1
72°	20.5	23.2	29.6	36.6	40.2	40.6
72.5°	19.2	21.7	27.8	34.5	37.8	38.0
73°	18.0	20.3	26.0	32.5	35.8	35.8
73.5°	16.8	19.0	24.4	30.5	33.8	33.7
74°	15.8	17.6	22.8	28.5	31.7	31.6
74.5°	14.7	16.3	21.3	26.7	29.6	29.4
75°	13.8	15.1	19.7	24.9	27.8	27.5
75.5°	12.9	14.0	18.3	23.2	26.0	25.5
76°	12.0	12.9	17.0	21.6	24.2	23.7
76.5°	11.3	11.8	15.7	20.0	22.5	22.0
77°	10.6	11.0	14.5	18.5	21.0	20.3
77.5°	9.8	10.1	13.3	17.2	19.5	18.7
78°	9.2	9.3	12.3	15.9	18.0	17.2
78.5°	8.5	8.5	11.2	14.6	16.6	15.7
79°	8.0	7.8	10.2	13.3	15.2	14.3
79.5°	7.4	7.0	9.4	12.2	14.0	12.9
80°	6.7	6.4	8.4	11.1	12.8	11.6
80.5°	6.2	5.9	7.7	10.0	11.6	10.4
81°	5.7	5.2	6.8	9.1	10.4	9.3
81.5°	5.1	4.7	6.2	8.1	9.4	8.1
82°	4.6	4.2	5.4	7.1	8.4	7.0
82.5°	4.2	3.7	4.8	6.4	7.5	6.1
83°	3.6	3.3	4.2	5.5	6.6	5.1
83.5°	3.2	2.8	3.6	4.8	5.8	4.2
84°	2.8	2.3	3.1	4.2	5.0	3.4
84.5°	2.3	1.9	2.6	3.5	4.3	2.7
85°	1.9	1.6	2.0	3.0	3.7	1.9
85.5°	1.5	1.2	1.6	2.3	3.1	1.2
86°	1.2	0.9	1.2	1.7	2.5	0.9
86.5°	0.9	0.5	0.7	1.2	1.9	0.6
87°	0.4	0.2	0.3	0.7	1.3	0.5
87.5°	0.2	0.1	0.1	0.3	0.7	0.3
88°	0.0	0.0	0.0	0.0	0.3	0.2
88.5°	0.0	0.0	0.0	0.0	0.0	0.1



TEST NUMBER: P775779
CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-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°	617.7	612.3	588.8	549.6	498.6	445.3	400.1	371.3	361.8	372.0	400.8
22°	616.6	611.1	587.3	547.5	495.9	441.7	395.7	366.5	356.9	367.4	396.5



44°	383.2	393.0	385.7	358.3	314.3	256.9	207.7	179.7	170.6	179.1	205.2
44.5°	373.6	383.4	377.4	351.1	308.3	252.1	203.7	175.9	166.7	175.3	200.7



66.5°	74.0	78.8	78.6	71.4	62.8	49.5	43.2	40.9	37.5	36.7	35.2
67°	70.5	75.2	74.7	67.9	59.5	46.7	41.4	39.2	35.7	35.0	33.7



89°	0.0	0.3	0.6	0.6	0.9	0.9	0.6	0.3	0.0	0.0	0.0
89.5°	0.0	0.1	0.2	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.0

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21.5°	443.5	488.3	535.0	574.9	604.3	617.7
22°	439.7	485.5	532.5	573.1	602.8	616.6



44°	243.8	277.6	309.3	336.8	362.1	383.2
44.5°	238.3	270.8	301.4	327.9	352.9	373.6



66.5°	39.7	46.1	55.8	65.4	71.6	74.0
67°	37.4	43.4	52.9	62.2	68.2	70.5

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)