

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P775763

Luminaire Tested: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B057-HCD62TRMW)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD62TRMW-1000lm-4000K  
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

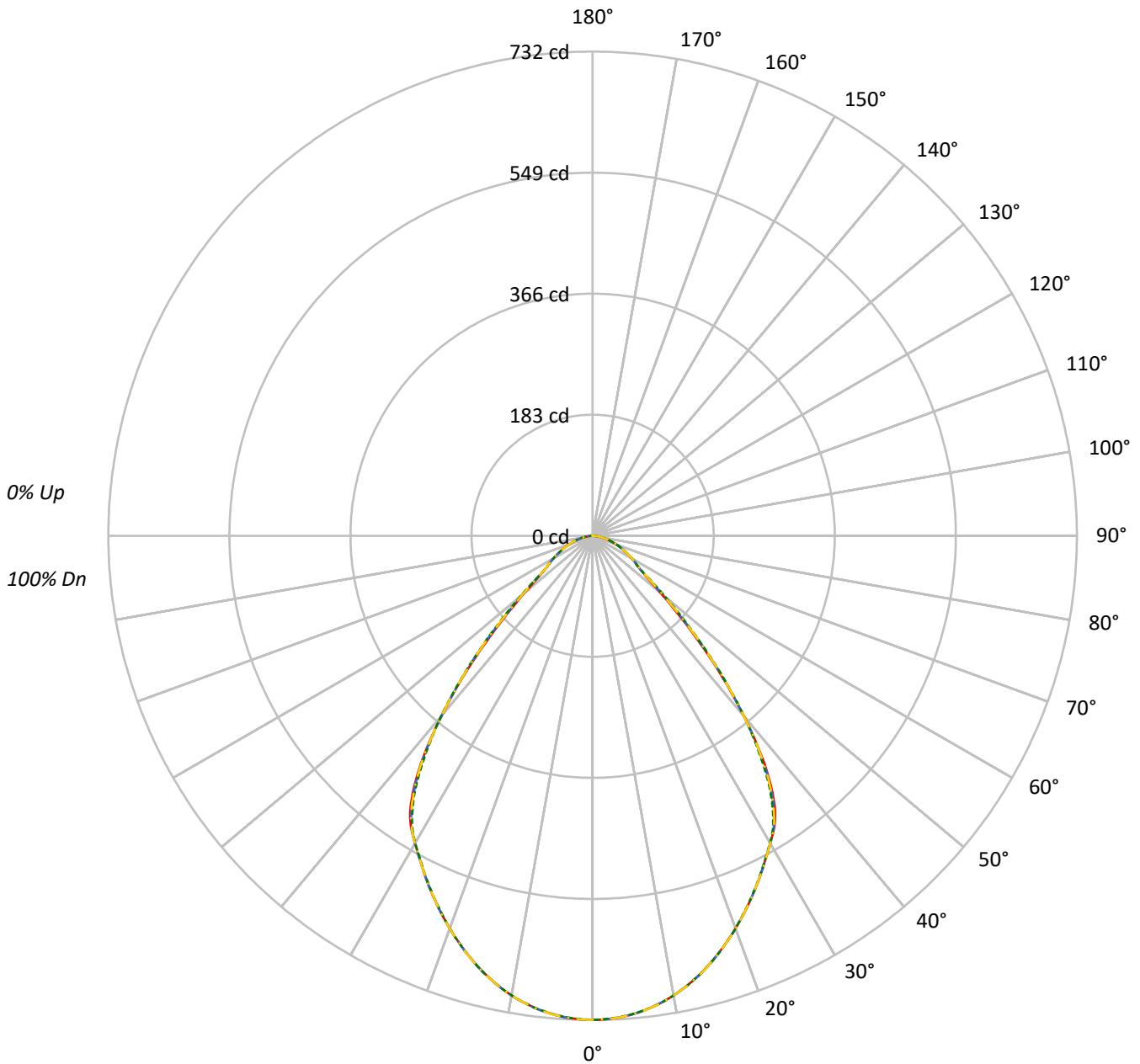
Lumens per Lamp: N/A  
Luminaire Lumens: 1165.2 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71								
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63								
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57								
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52								
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47								
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40								
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36								

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

	0°	90°	180°	270°
0°	40123	40123	40123	40123
5°	39913	39896	39913	39896
10°	39278	39278	39278	39278
15°	38201	38218	38201	38218
20°	36852	36835	36852	36835
25°	35385	35331	35385	35331
30°	33993	33942	33993	33942
35°	31701	31240	31701	31240
40°	25448	25476	25448	25476
45°	17808	18343	17808	18343
50°	11386	12128	11386	12128
55°	8277	8411	8277	8411
60°	7521	7488	7521	7488
65°	6758	6732	6758	6732
70°	5995	6075	5995	6075
75°	5232	5486	5232	5486
80°	4325	4862	4325	4862
85°	2642	4026	2642	4026

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 18343 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	5.9
10°-20°	189.3	16.2
20°-30°	269.2	23.1
30°-40°	287.8	24.7
40°-50°	181.8	15.6
50°-60°	82.7	7.1
60°-70°	51.8	4.4
70°-80°	27.2	2.3
80°-90°	6.7	0.6
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°	527.1	45.2
0°-40°	814.9	69.9
0°-60°	1079.5	92.6
0°-90°	1165.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	732	732	732	732	732	
5°	725	725	725	725	725	69
15°	673	673	673	673	673	189
25°	585	584	585	584	585	269
35°	474	467	474	467	474	289
45°	230	237	230	237	230	179
55°	87	88	87	88	87	82
65°	52	52	52	52	52	52
75°	25	26	25	26	25	26
85°	4	6	4	6	4	6
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°	731.9	731.9	731.9	731.9	731.9	731.9	731.9	731.9	731.9	731.9	731.9
0.5°	731.8	731.9	731.8	731.8	731.5	731.8	731.8	731.9	731.8	731.9	731.8
1°	731.6	731.7	731.7	731.6	731.3	731.6	731.7	731.7	731.6	731.7	731.7
1.5°	731.3	731.4	731.3	731.3	731.0	731.3	731.3	731.4	731.3	731.4	731.3
2°	730.9	730.9	730.9	730.9	730.5	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	730.3	730.3	730.4	730.3	729.9	730.3	730.4	730.3	730.3	730.3	730.4
3°	729.5	729.6	729.6	729.6	729.2	729.6	729.6	729.6	729.5	729.6	729.6
3.5°	728.7	728.7	728.8	728.8	728.4	728.8	728.8	728.7	728.7	728.7	728.8
4°	727.7	727.7	727.7	727.7	727.4	727.7	727.7	727.7	727.7	727.7	727.7
4.5°	726.6	726.7	726.7	726.7	726.3	726.7	726.7	726.7	726.6	726.7	726.7
5°	725.3	725.4	725.4	725.4	725.0	725.4	725.4	725.4	725.3	725.4	725.4
5.5°	724.0	724.1	724.1	724.1	723.6	724.1	724.1	724.1	724.0	724.1	724.1
6°	722.5	722.5	722.5	722.5	722.2	722.5	722.5	722.5	722.5	722.5	722.5
6.5°	720.8	720.8	720.9	720.9	720.6	720.9	720.9	720.8	720.8	720.8	720.9
7°	719.0	719.1	719.1	719.1	718.8	719.1	719.1	719.1	719.0	719.1	719.1
7.5°	717.1	717.1	717.2	717.2	716.9	717.2	717.2	717.1	717.1	717.1	717.2
8°	715.0	715.1	715.2	715.2	714.9	715.2	715.2	715.1	715.0	715.1	715.2
8.5°	712.8	712.9	713.0	713.0	712.7	713.0	713.0	712.9	712.8	712.9	713.0
9°	710.5	710.6	710.7	710.8	710.5	710.8	710.7	710.6	710.5	710.6	710.7
9.5°	708.1	708.2	708.3	708.4	708.1	708.4	708.3	708.2	708.1	708.2	708.3
10°	705.6	705.6	705.7	705.9	705.6	705.9	705.7	705.6	705.6	705.6	705.7
10.5°	702.9	702.9	703.1	703.2	702.9	703.2	703.1	702.9	702.9	702.9	703.1
11°	700.0	700.0	700.2	700.4	700.0	700.4	700.2	700.0	700.0	700.0	700.2
11.5°	697.0	697.1	697.3	697.5	697.2	697.5	697.3	697.1	697.0	697.1	697.3
12°	693.9	694.0	694.2	694.5	694.1	694.5	694.2	694.0	693.9	694.0	694.2
12.5°	690.8	690.9	691.0	691.2	691.0	691.2	691.0	690.9	690.8	690.9	691.0
13°	687.4	687.5	687.7	687.9	687.7	687.9	687.7	687.5	687.4	687.5	687.7
13.5°	684.1	684.2	684.4	684.6	684.3	684.6	684.4	684.2	684.1	684.2	684.4
14°	680.5	680.7	680.9	681.0	680.8	681.0	680.9	680.7	680.5	680.7	680.9
14.5°	676.9	677.0	677.2	677.4	677.2	677.4	677.2	677.0	676.9	677.0	677.2
15°	673.1	673.3	673.6	673.8	673.4	673.8	673.6	673.3	673.1	673.3	673.6
15.5°	669.4	669.5	669.7	669.9	669.6	669.9	669.7	669.5	669.4	669.5	669.7
16°	665.4	665.6	665.8	666.0	665.7	666.0	665.8	665.6	665.4	665.6	665.8
16.5°	661.5	661.6	661.8	662.0	661.7	662.0	661.8	661.6	661.5	661.6	661.8
17°	657.4	657.5	657.7	657.9	657.6	657.9	657.7	657.5	657.4	657.5	657.7
17.5°	653.3	653.3	653.5	653.7	653.4	653.7	653.5	653.3	653.3	653.3	653.5
18°	649.0	649.2	649.3	649.4	649.1	649.4	649.3	649.2	649.0	649.2	649.3
18.5°	644.7	644.9	645.0	645.1	644.8	645.1	645.0	644.9	644.7	644.9	645.0
19°	640.4	640.6	640.7	640.7	640.5	640.7	640.7	640.6	640.4	640.6	640.7
19.5°	636.1	636.2	636.3	636.4	636.1	636.4	636.3	636.2	636.1	636.2	636.3
20°	631.7	631.8	631.9	631.9	631.4	631.9	631.9	631.8	631.7	631.8	631.9
20.5°	627.2	627.2	627.2	627.2	626.9	627.2	627.2	627.2	627.2	627.2	627.2
21°	622.5	622.6	622.7	622.6	622.3	622.6	622.7	622.6	622.5	622.6	622.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	608.9	608.9	608.8	608.7	608.2	608.7	608.8	608.9	608.9	608.9	608.8
23°	604.1	604.1	604.0	603.9	603.5	603.9	604.0	604.1	604.1	604.1	604.0
23.5°	599.4	599.4	599.3	599.1	598.8	599.1	599.3	599.4	599.4	599.4	599.3
24°	594.7	594.7	594.6	594.3	593.8	594.3	594.6	594.7	594.7	594.7	594.6
24.5°	590.0	589.9	589.8	589.4	589.0	589.4	589.8	589.9	590.0	589.9	589.8
25°	585.0	585.0	584.9	584.6	584.1	584.6	584.9	585.0	585.0	585.0	584.9
25.5°	580.2	580.2	580.1	579.7	579.3	579.7	580.1	580.2	580.2	580.2	580.1
26°	575.4	575.4	575.3	574.9	574.4	574.9	575.3	575.4	575.4	575.4	575.3
26.5°	570.4	570.4	570.3	569.9	569.5	569.9	570.3	570.4	570.4	570.4	570.3
27°	565.5	565.6	565.5	565.1	564.6	565.1	565.5	565.6	565.5	565.6	565.5
27.5°	560.7	560.7	560.6	560.2	559.7	560.2	560.6	560.7	560.7	560.7	560.6
28°	555.6	555.8	555.7	555.4	555.0	555.4	555.7	555.8	555.6	555.8	555.7
28.5°	550.9	551.1	551.0	550.7	550.3	550.7	551.0	551.1	550.9	551.1	551.0
29°	546.2	546.4	546.3	546.1	545.5	546.1	546.3	546.4	546.2	546.4	546.3
29.5°	541.6	541.7	541.7	541.3	540.9	541.3	541.7	541.7	541.6	541.7	541.7
30°	537.0	537.0	537.0	536.6	536.2	536.6	537.0	537.0	537.0	537.0	537.0
30.5°	532.4	532.5	532.3	532.0	531.5	532.0	532.3	532.5	532.4	532.5	532.3
31°	527.9	527.9	527.7	527.2	526.5	527.2	527.7	527.9	527.9	527.9	527.7
31.5°	523.1	523.1	522.7	522.1	521.3	522.1	522.7	523.1	523.1	523.1	522.7
32°	518.1	517.8	517.1	516.1	515.0	516.1	517.1	517.8	518.1	517.8	517.1
32.5°	512.8	512.0	510.9	509.3	507.9	509.3	510.9	512.0	512.8	512.0	510.9
33°	506.7	505.8	503.9	502.1	500.6	502.1	503.9	505.8	506.7	505.8	503.9
33.5°	499.7	498.9	496.2	494.3	492.8	494.3	496.2	498.9	499.7	498.9	496.2
34°	491.7	491.4	488.1	486.0	484.7	486.0	488.1	491.4	491.7	491.4	488.1
34.5°	483.0	482.4	479.5	477.2	476.0	477.2	479.5	482.4	483.0	482.4	479.5
35°	473.7	472.9	470.4	467.8	466.8	467.8	470.4	472.9	473.7	472.9	470.4
35.5°	463.9	462.8	460.8	458.2	456.8	458.2	460.8	462.8	463.9	462.8	460.8
36°	453.6	452.1	450.8	448.2	446.5	448.2	450.8	452.1	453.6	452.1	450.8
36.5°	442.6	441.1	440.2	437.7	435.6	437.7	440.2	441.1	442.6	441.1	440.2
37°	431.2	429.7	429.1	426.8	424.7	426.8	429.1	429.7	431.2	429.7	429.1
37.5°	419.2	418.2	417.5	415.6	413.5	415.6	417.5	418.2	419.2	418.2	417.5
38°	406.8	406.2	405.6	404.3	402.5	404.3	405.6	406.2	406.8	406.2	405.6
38.5°	394.1	394.1	393.1	392.6	391.1	392.6	393.1	394.1	394.1	394.1	393.1
39°	381.5	381.7	380.7	380.6	379.9	380.6	380.7	381.7	381.5	381.7	380.7
39.5°	368.6	368.9	367.9	368.2	368.1	368.2	367.9	368.9	368.6	368.9	367.9
40°	355.6	356.2	355.3	355.8	356.0	355.8	355.3	356.2	355.6	356.2	355.3
40.5°	342.3	343.3	342.7	343.5	343.7	343.5	342.7	343.3	342.3	343.3	342.7
41°	329.4	330.5	330.3	331.0	331.7	331.0	330.3	330.5	329.4	330.5	330.3
41.5°	316.6	317.3	318.0	318.9	319.2	318.9	318.0	317.3	316.6	317.3	318.0
42°	303.8	304.4	305.7	306.5	307.4	306.5	305.7	304.4	303.8	304.4	305.7
42.5°	291.1	291.7	293.5	294.6	295.3	294.6	293.5	291.7	291.1	291.7	293.5
43°	278.4	279.2	281.5	282.5	283.2	282.5	281.5	279.2	278.4	279.2	281.5
43.5°	265.9	266.6	269.5	270.4	271.0	270.4	269.5	266.6	265.9	266.6	269.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	229.7	230.9	234.1	235.9	236.6	235.9	234.1	230.9	229.7	230.9	234.1
45.5°	218.0	219.6	222.8	224.8	225.6	224.8	222.8	219.6	218.0	219.6	222.8
46°	206.9	208.7	211.8	214.1	215.1	214.1	211.8	208.7	206.9	208.7	211.8
46.5°	196.1	198.1	201.1	203.7	204.8	203.7	201.1	198.1	196.1	198.1	201.1
47°	185.6	187.8	190.7	193.5	194.7	193.5	190.7	187.8	185.6	187.8	190.7
47.5°	175.6	177.7	180.8	183.8	184.8	183.8	180.8	177.7	175.6	177.7	180.8
48°	166.1	168.2	171.4	174.4	175.6	174.4	171.4	168.2	166.1	168.2	171.4
48.5°	157.3	159.1	162.2	165.4	166.7	165.4	162.2	159.1	157.3	159.1	162.2
49°	148.8	150.5	153.5	156.9	158.0	156.9	153.5	150.5	148.8	150.5	153.5
49.5°	140.8	142.3	145.4	148.6	150.0	148.6	145.4	142.3	140.8	142.3	145.4
50°	133.5	134.5	137.8	140.9	142.2	140.9	137.8	134.5	133.5	134.5	137.8
50.5°	126.6	127.4	130.6	133.6	134.8	133.6	130.6	127.4	126.6	127.4	130.6
51°	120.3	121.0	123.9	126.5	128.0	126.5	123.9	121.0	120.3	121.0	123.9
51.5°	114.5	115.0	117.7	120.1	121.5	120.1	117.7	115.0	114.5	115.0	117.7
52°	109.1	109.6	112.2	114.1	115.3	114.1	112.2	109.6	109.1	109.6	112.2
52.5°	104.2	104.6	106.8	108.5	109.5	108.5	106.8	104.6	104.2	104.6	106.8
53°	99.7	100.4	102.0	103.3	104.2	103.3	102.0	100.4	99.7	100.4	102.0
53.5°	96.1	96.5	97.6	98.7	99.3	98.7	97.6	96.5	96.1	96.5	97.6
54°	92.7	92.8	93.6	94.4	94.9	94.4	93.6	92.8	92.7	92.8	93.6
54.5°	89.7	89.7	90.0	90.6	91.3	90.6	90.0	89.7	89.7	89.7	90.0
55°	86.6	86.7	87.2	87.6	88.0	87.6	87.2	86.7	86.6	86.7	87.2
55.5°	83.8	84.2	84.6	85.0	85.7	85.0	84.6	84.2	83.8	84.2	84.6
56°	81.8	82.0	82.3	82.5	83.4	82.5	82.3	82.0	81.8	82.0	82.3
56.5°	80.1	80.1	80.1	80.3	81.1	80.3	80.1	80.1	80.1	80.1	80.1
57°	78.5	78.5	78.3	78.2	78.8	78.2	78.3	78.5	78.5	78.5	78.3
57.5°	77.1	77.0	76.8	76.6	76.4	76.6	76.8	77.0	77.1	77.0	76.8
58°	75.5	75.4	75.2	75.0	74.8	75.0	75.2	75.4	75.5	75.4	75.2
58.5°	73.8	73.7	73.5	73.3	73.2	73.3	73.5	73.7	73.8	73.7	73.5
59°	72.1	72.0	71.9	71.7	71.5	71.7	71.9	72.0	72.1	72.0	71.9
59.5°	70.4	70.4	70.1	70.0	69.9	70.0	70.1	70.4	70.4	70.4	70.1
60°	68.6	68.6	68.5	68.4	68.3	68.4	68.5	68.6	68.6	68.6	68.5
60.5°	66.8	66.8	66.7	66.6	66.5	66.6	66.7	66.8	66.8	66.8	66.7
61°	65.1	65.1	65.0	64.9	64.8	64.9	65.0	65.1	65.1	65.1	65.0
61.5°	63.4	63.4	63.3	63.2	63.1	63.2	63.3	63.4	63.4	63.4	63.3
62°	61.7	61.7	61.6	61.5	61.4	61.5	61.6	61.7	61.7	61.7	61.6
62.5°	60.1	60.1	60.0	59.9	59.8	59.9	60.0	60.1	60.1	60.1	60.0
63°	58.5	58.4	58.4	58.2	58.2	58.2	58.4	58.4	58.5	58.4	58.4
63.5°	56.8	56.8	56.7	56.6	56.6	56.6	56.7	56.8	56.8	56.8	56.7
64°	55.2	55.2	55.1	55.0	54.9	55.0	55.1	55.2	55.2	55.2	55.1
64.5°	53.7	53.7	53.6	53.5	53.5	53.5	53.6	53.7	53.7	53.7	53.6
65°	52.1	52.2	52.1	52.0	51.9	52.0	52.1	52.2	52.1	52.2	52.1
65.5°	50.5	50.6	50.6	50.5	50.4	50.5	50.6	50.6	50.5	50.6	50.6
66°	49.0	49.1	49.0	48.9	48.9	48.9	49.0	49.1	49.0	49.1	49.0





TEST NUMBER: P775763

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	44.5	44.7	44.7	44.6	44.6	44.6	44.7	44.7	44.5	44.7	44.7
68°	43.1	43.3	43.4	43.3	43.3	43.3	43.4	43.3	43.1	43.3	43.4
68.5°	41.7	41.9	42.0	41.9	41.9	41.9	42.0	41.9	41.7	41.9	42.0
69°	40.2	40.5	40.6	40.6	40.5	40.6	40.6	40.5	40.2	40.5	40.6
69.5°	38.7	39.2	39.4	39.3	39.3	39.3	39.4	39.2	38.7	39.2	39.4
70°	37.4	37.7	38.0	38.0	37.9	38.0	38.0	37.7	37.4	37.7	38.0
70.5°	36.0	36.4	36.8	36.6	36.6	36.6	36.8	36.4	36.0	36.4	36.8
71°	34.8	35.2	35.5	35.5	35.4	35.5	35.5	35.2	34.8	35.2	35.5
71.5°	33.4	33.8	34.2	34.2	34.1	34.2	34.2	33.8	33.4	33.8	34.2
72°	32.1	32.6	33.0	33.0	32.9	33.0	33.0	32.6	32.1	32.6	33.0
72.5°	30.9	31.3	31.8	31.7	31.7	31.7	31.8	31.3	30.9	31.3	31.8
73°	29.5	30.0	30.6	30.6	30.5	30.6	30.6	30.0	29.5	30.0	30.6
73.5°	28.2	28.8	29.4	29.4	29.3	29.4	29.4	28.8	28.2	28.8	29.4
74°	27.1	27.5	28.1	28.2	28.1	28.2	28.1	27.5	27.1	27.5	28.1
74.5°	25.8	26.4	27.0	27.1	27.0	27.1	27.0	26.4	25.8	26.4	27.0
75°	24.7	25.1	25.8	25.9	25.9	25.9	25.8	25.1	24.7	25.1	25.8
75.5°	23.5	23.9	24.8	24.8	24.8	24.8	24.8	23.9	23.5	23.9	24.8
76°	22.4	22.8	23.6	23.7	23.7	23.7	23.6	22.8	22.4	22.8	23.6
76.5°	21.2	21.6	22.5	22.7	22.6	22.7	22.5	21.6	21.2	21.6	22.5
77°	20.1	20.6	21.4	21.6	21.5	21.6	21.4	20.6	20.1	20.6	21.4
77.5°	18.9	19.4	20.4	20.6	20.5	20.6	20.4	19.4	18.9	19.4	20.4
78°	17.9	18.4	19.2	19.5	19.4	19.5	19.2	18.4	17.9	18.4	19.2
78.5°	16.8	17.2	18.2	18.5	18.5	18.5	18.2	17.2	16.8	17.2	18.2
79°	15.8	16.2	17.1	17.4	17.4	17.4	17.1	16.2	15.8	16.2	17.1
79.5°	14.7	15.1	16.2	16.5	16.5	16.5	16.2	15.1	14.7	15.1	16.2
80°	13.7	14.1	15.1	15.4	15.4	15.4	15.1	14.1	13.7	14.1	15.1
80.5°	12.7	13.1	14.2	14.5	14.5	14.5	14.2	13.1	12.7	13.1	14.2
81°	11.7	12.1	13.1	13.5	13.5	13.5	13.1	12.1	11.7	12.1	13.1
81.5°	10.7	11.0	12.2	12.6	12.6	12.6	12.2	11.0	10.7	11.0	12.2
82°	9.8	10.1	11.2	11.7	11.7	11.7	11.2	10.1	9.8	10.1	11.2
82.5°	8.7	9.1	10.3	10.8	10.8	10.8	10.3	9.1	8.7	9.1	10.3
83°	7.8	8.2	9.3	9.9	9.9	9.9	9.3	8.2	7.8	8.2	9.3
83.5°	6.8	7.2	8.5	9.0	8.9	9.0	8.5	7.2	6.8	7.2	8.5
84°	6.0	6.3	7.7	8.1	8.1	8.1	7.7	6.3	6.0	6.3	7.7
84.5°	5.0	5.4	6.8	7.2	7.2	7.2	6.8	5.4	5.0	5.4	6.8
85°	4.2	4.5	6.0	6.4	6.4	6.4	6.0	4.5	4.2	4.5	6.0
85.5°	3.4	3.8	5.1	5.6	5.6	5.6	5.1	3.8	3.4	3.8	5.1
86°	2.7	3.0	4.4	4.7	4.7	4.7	4.4	3.0	2.7	3.0	4.4
86.5°	2.2	2.5	3.6	3.9	4.0	3.9	3.6	2.5	2.2	2.5	3.6
87°	1.7	2.0	2.9	3.2	3.2	3.2	2.9	2.0	1.7	2.0	2.9
87.5°	1.3	1.5	2.2	2.4	2.4	2.4	2.2	1.5	1.3	1.5	2.2
88°	0.8	1.1	1.6	1.7	1.8	1.7	1.6	1.1	0.8	1.1	1.6
88.5°	0.4	0.6	1.1	1.3	1.4	1.3	1.1	0.6	0.4	0.6	1.1



TEST NUMBER: P775763

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-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	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1



TEST NUMBER: P775763

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	731.9	731.9	731.9	731.9	731.9	731.9
0.5°	731.8	731.5	731.8	731.8	731.9	731.8
1°	731.6	731.3	731.6	731.7	731.7	731.6
1.5°	731.3	731.0	731.3	731.3	731.4	731.3
2°	730.9	730.5	730.9	730.9	730.9	730.9
2.5°	730.3	729.9	730.3	730.4	730.3	730.3
3°	729.6	729.2	729.6	729.6	729.6	729.5
3.5°	728.8	728.4	728.8	728.8	728.7	728.7
4°	727.7	727.4	727.7	727.7	727.7	727.7
4.5°	726.7	726.3	726.7	726.7	726.7	726.6
5°	725.4	725.0	725.4	725.4	725.4	725.3
5.5°	724.1	723.6	724.1	724.1	724.1	724.0
6°	722.5	722.2	722.5	722.5	722.5	722.5
6.5°	720.9	720.6	720.9	720.9	720.8	720.8
7°	719.1	718.8	719.1	719.1	719.1	719.0
7.5°	717.2	716.9	717.2	717.2	717.1	717.1
8°	715.2	714.9	715.2	715.2	715.1	715.0
8.5°	713.0	712.7	713.0	713.0	712.9	712.8
9°	710.8	710.5	710.8	710.7	710.6	710.5
9.5°	708.4	708.1	708.4	708.3	708.2	708.1
10°	705.9	705.6	705.9	705.7	705.6	705.6
10.5°	703.2	702.9	703.2	703.1	702.9	702.9
11°	700.4	700.0	700.4	700.2	700.0	700.0
11.5°	697.5	697.2	697.5	697.3	697.1	697.0
12°	694.5	694.1	694.5	694.2	694.0	693.9
12.5°	691.2	691.0	691.2	691.0	690.9	690.8
13°	687.9	687.7	687.9	687.7	687.5	687.4
13.5°	684.6	684.3	684.6	684.4	684.2	684.1
14°	681.0	680.8	681.0	680.9	680.7	680.5
14.5°	677.4	677.2	677.4	677.2	677.0	676.9
15°	673.8	673.4	673.8	673.6	673.3	673.1
15.5°	669.9	669.6	669.9	669.7	669.5	669.4
16°	666.0	665.7	666.0	665.8	665.6	665.4
16.5°	662.0	661.7	662.0	661.8	661.6	661.5
17°	657.9	657.6	657.9	657.7	657.5	657.4
17.5°	653.7	653.4	653.7	653.5	653.3	653.3
18°	649.4	649.1	649.4	649.3	649.2	649.0
18.5°	645.1	644.8	645.1	645.0	644.9	644.7
19°	640.7	640.5	640.7	640.7	640.6	640.4
19.5°	636.4	636.1	636.4	636.3	636.2	636.1
20°	631.9	631.4	631.9	631.9	631.8	631.7
20.5°	627.2	626.9	627.2	627.2	627.2	627.2
21°	622.6	622.3	622.6	622.7	622.6	622.5



TEST NUMBER: P775763

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	608.7	608.2	608.7	608.8	608.9	608.9
23°	603.9	603.5	603.9	604.0	604.1	604.1
23.5°	599.1	598.8	599.1	599.3	599.4	599.4
24°	594.3	593.8	594.3	594.6	594.7	594.7
24.5°	589.4	589.0	589.4	589.8	589.9	590.0
25°	584.6	584.1	584.6	584.9	585.0	585.0
25.5°	579.7	579.3	579.7	580.1	580.2	580.2
26°	574.9	574.4	574.9	575.3	575.4	575.4
26.5°	569.9	569.5	569.9	570.3	570.4	570.4
27°	565.1	564.6	565.1	565.5	565.6	565.5
27.5°	560.2	559.7	560.2	560.6	560.7	560.7
28°	555.4	555.0	555.4	555.7	555.8	555.6
28.5°	550.7	550.3	550.7	551.0	551.1	550.9
29°	546.1	545.5	546.1	546.3	546.4	546.2
29.5°	541.3	540.9	541.3	541.7	541.7	541.6
30°	536.6	536.2	536.6	537.0	537.0	537.0
30.5°	532.0	531.5	532.0	532.3	532.5	532.4
31°	527.2	526.5	527.2	527.7	527.9	527.9
31.5°	522.1	521.3	522.1	522.7	523.1	523.1
32°	516.1	515.0	516.1	517.1	517.8	518.1
32.5°	509.3	507.9	509.3	510.9	512.0	512.8
33°	502.1	500.6	502.1	503.9	505.8	506.7
33.5°	494.3	492.8	494.3	496.2	498.9	499.7
34°	486.0	484.7	486.0	488.1	491.4	491.7
34.5°	477.2	476.0	477.2	479.5	482.4	483.0
35°	467.8	466.8	467.8	470.4	472.9	473.7
35.5°	458.2	456.8	458.2	460.8	462.8	463.9
36°	448.2	446.5	448.2	450.8	452.1	453.6
36.5°	437.7	435.6	437.7	440.2	441.1	442.6
37°	426.8	424.7	426.8	429.1	429.7	431.2
37.5°	415.6	413.5	415.6	417.5	418.2	419.2
38°	404.3	402.5	404.3	405.6	406.2	406.8
38.5°	392.6	391.1	392.6	393.1	394.1	394.1
39°	380.6	379.9	380.6	380.7	381.7	381.5
39.5°	368.2	368.1	368.2	367.9	368.9	368.6
40°	355.8	356.0	355.8	355.3	356.2	355.6
40.5°	343.5	343.7	343.5	342.7	343.3	342.3
41°	331.0	331.7	331.0	330.3	330.5	329.4
41.5°	318.9	319.2	318.9	318.0	317.3	316.6
42°	306.5	307.4	306.5	305.7	304.4	303.8
42.5°	294.6	295.3	294.6	293.5	291.7	291.1
43°	282.5	283.2	282.5	281.5	279.2	278.4
43.5°	270.4	271.0	270.4	269.5	266.6	265.9



TEST NUMBER: P775763

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	235.9	236.6	235.9	234.1	230.9	229.7
45.5°	224.8	225.6	224.8	222.8	219.6	218.0
46°	214.1	215.1	214.1	211.8	208.7	206.9
46.5°	203.7	204.8	203.7	201.1	198.1	196.1
47°	193.5	194.7	193.5	190.7	187.8	185.6
47.5°	183.8	184.8	183.8	180.8	177.7	175.6
48°	174.4	175.6	174.4	171.4	168.2	166.1
48.5°	165.4	166.7	165.4	162.2	159.1	157.3
49°	156.9	158.0	156.9	153.5	150.5	148.8
49.5°	148.6	150.0	148.6	145.4	142.3	140.8
50°	140.9	142.2	140.9	137.8	134.5	133.5
50.5°	133.6	134.8	133.6	130.6	127.4	126.6
51°	126.5	128.0	126.5	123.9	121.0	120.3
51.5°	120.1	121.5	120.1	117.7	115.0	114.5
52°	114.1	115.3	114.1	112.2	109.6	109.1
52.5°	108.5	109.5	108.5	106.8	104.6	104.2
53°	103.3	104.2	103.3	102.0	100.4	99.7
53.5°	98.7	99.3	98.7	97.6	96.5	96.1
54°	94.4	94.9	94.4	93.6	92.8	92.7
54.5°	90.6	91.3	90.6	90.0	89.7	89.7
55°	87.6	88.0	87.6	87.2	86.7	86.6
55.5°	85.0	85.7	85.0	84.6	84.2	83.8
56°	82.5	83.4	82.5	82.3	82.0	81.8
56.5°	80.3	81.1	80.3	80.1	80.1	80.1
57°	78.2	78.8	78.2	78.3	78.5	78.5
57.5°	76.6	76.4	76.6	76.8	77.0	77.1
58°	75.0	74.8	75.0	75.2	75.4	75.5
58.5°	73.3	73.2	73.3	73.5	73.7	73.8
59°	71.7	71.5	71.7	71.9	72.0	72.1
59.5°	70.0	69.9	70.0	70.1	70.4	70.4
60°	68.4	68.3	68.4	68.5	68.6	68.6
60.5°	66.6	66.5	66.6	66.7	66.8	66.8
61°	64.9	64.8	64.9	65.0	65.1	65.1
61.5°	63.2	63.1	63.2	63.3	63.4	63.4
62°	61.5	61.4	61.5	61.6	61.7	61.7
62.5°	59.9	59.8	59.9	60.0	60.1	60.1
63°	58.2	58.2	58.2	58.4	58.4	58.5
63.5°	56.6	56.6	56.6	56.7	56.8	56.8
64°	55.0	54.9	55.0	55.1	55.2	55.2
64.5°	53.5	53.5	53.5	53.6	53.7	53.7
65°	52.0	51.9	52.0	52.1	52.2	52.1
65.5°	50.5	50.4	50.5	50.6	50.6	50.5
66°	48.9	48.9	48.9	49.0	49.1	49.0



TEST NUMBER: P775763

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	44.6	44.6	44.6	44.7	44.7	44.5
68°	43.3	43.3	43.3	43.4	43.3	43.1
68.5°	41.9	41.9	41.9	42.0	41.9	41.7
69°	40.6	40.5	40.6	40.6	40.5	40.2
69.5°	39.3	39.3	39.3	39.4	39.2	38.7
70°	38.0	37.9	38.0	38.0	37.7	37.4
70.5°	36.6	36.6	36.6	36.8	36.4	36.0
71°	35.5	35.4	35.5	35.5	35.2	34.8
71.5°	34.2	34.1	34.2	34.2	33.8	33.4
72°	33.0	32.9	33.0	33.0	32.6	32.1
72.5°	31.7	31.7	31.7	31.8	31.3	30.9
73°	30.6	30.5	30.6	30.6	30.0	29.5
73.5°	29.4	29.3	29.4	29.4	28.8	28.2
74°	28.2	28.1	28.2	28.1	27.5	27.1
74.5°	27.1	27.0	27.1	27.0	26.4	25.8
75°	25.9	25.9	25.9	25.8	25.1	24.7
75.5°	24.8	24.8	24.8	24.8	23.9	23.5
76°	23.7	23.7	23.7	23.6	22.8	22.4
76.5°	22.7	22.6	22.7	22.5	21.6	21.2
77°	21.6	21.5	21.6	21.4	20.6	20.1
77.5°	20.6	20.5	20.6	20.4	19.4	18.9
78°	19.5	19.4	19.5	19.2	18.4	17.9
78.5°	18.5	18.5	18.5	18.2	17.2	16.8
79°	17.4	17.4	17.4	17.1	16.2	15.8
79.5°	16.5	16.5	16.5	16.2	15.1	14.7
80°	15.4	15.4	15.4	15.1	14.1	13.7
80.5°	14.5	14.5	14.5	14.2	13.1	12.7
81°	13.5	13.5	13.5	13.1	12.1	11.7
81.5°	12.6	12.6	12.6	12.2	11.0	10.7
82°	11.7	11.7	11.7	11.2	10.1	9.8
82.5°	10.8	10.8	10.8	10.3	9.1	8.7
83°	9.9	9.9	9.9	9.3	8.2	7.8
83.5°	9.0	8.9	9.0	8.5	7.2	6.8
84°	8.1	8.1	8.1	7.7	6.3	6.0
84.5°	7.2	7.2	7.2	6.8	5.4	5.0
85°	6.4	6.4	6.4	6.0	4.5	4.2
85.5°	5.6	5.6	5.6	5.1	3.8	3.4
86°	4.7	4.7	4.7	4.4	3.0	2.7
86.5°	3.9	4.0	3.9	3.6	2.5	2.2
87°	3.2	3.2	3.2	2.9	2.0	1.7
87.5°	2.4	2.4	2.4	2.2	1.5	1.3
88°	1.7	1.8	1.7	1.6	1.1	0.8
88.5°	1.3	1.4	1.3	1.1	0.6	0.4



TEST NUMBER: P775763  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.3	0.2	0.1	0.1	0.0



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

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21.5°	618.0	618.1	618.0	618.0	617.7	618.0	618.0	618.1	618.0	618.1	618.0
22°	613.5	613.5	613.5	613.3	613.0	613.3	613.5	613.5	613.5	613.5	613.5



44°	253.5	254.2	257.4	258.8	259.4	258.8	257.4	254.2	253.5	254.2	257.4
44.5°	241.3	242.5	245.5	247.2	247.8	247.2	245.5	242.5	241.3	242.5	245.5



66.5°	47.5	47.7	47.7	47.6	47.5	47.6	47.7	47.7	47.5	47.7	47.7
67°	46.0	46.2	46.2	46.1	46.0	46.1	46.2	46.2	46.0	46.2	46.2



89°	0.2	0.3	0.6	0.8	0.9	0.8	0.6	0.3	0.2	0.3	0.6
89.5°	0.1	0.1	0.3	0.5	0.6	0.5	0.3	0.1	0.1	0.1	0.3



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21.5°	618.0	617.7	618.0	618.0	618.1	618.0
22°	613.3	613.0	613.3	613.5	613.5	613.5



44°	258.8	259.4	258.8	257.4	254.2	253.5
44.5°	247.2	247.8	247.2	245.5	242.5	241.3



66.5°	47.6	47.5	47.6	47.7	47.7	47.5
67°	46.1	46.0	46.1	46.2	46.2	46.0

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89°	0.8	0.9	0.8	0.6	0.3	0.2
89.5°	0.5	0.6	0.5	0.3	0.1	0.1

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(END OF REPORT)