

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: P775775

Luminaire Tested: HCDJBS510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775775  
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-2700K  
Description: 6 INCH ROUND MEDIUM LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1028.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

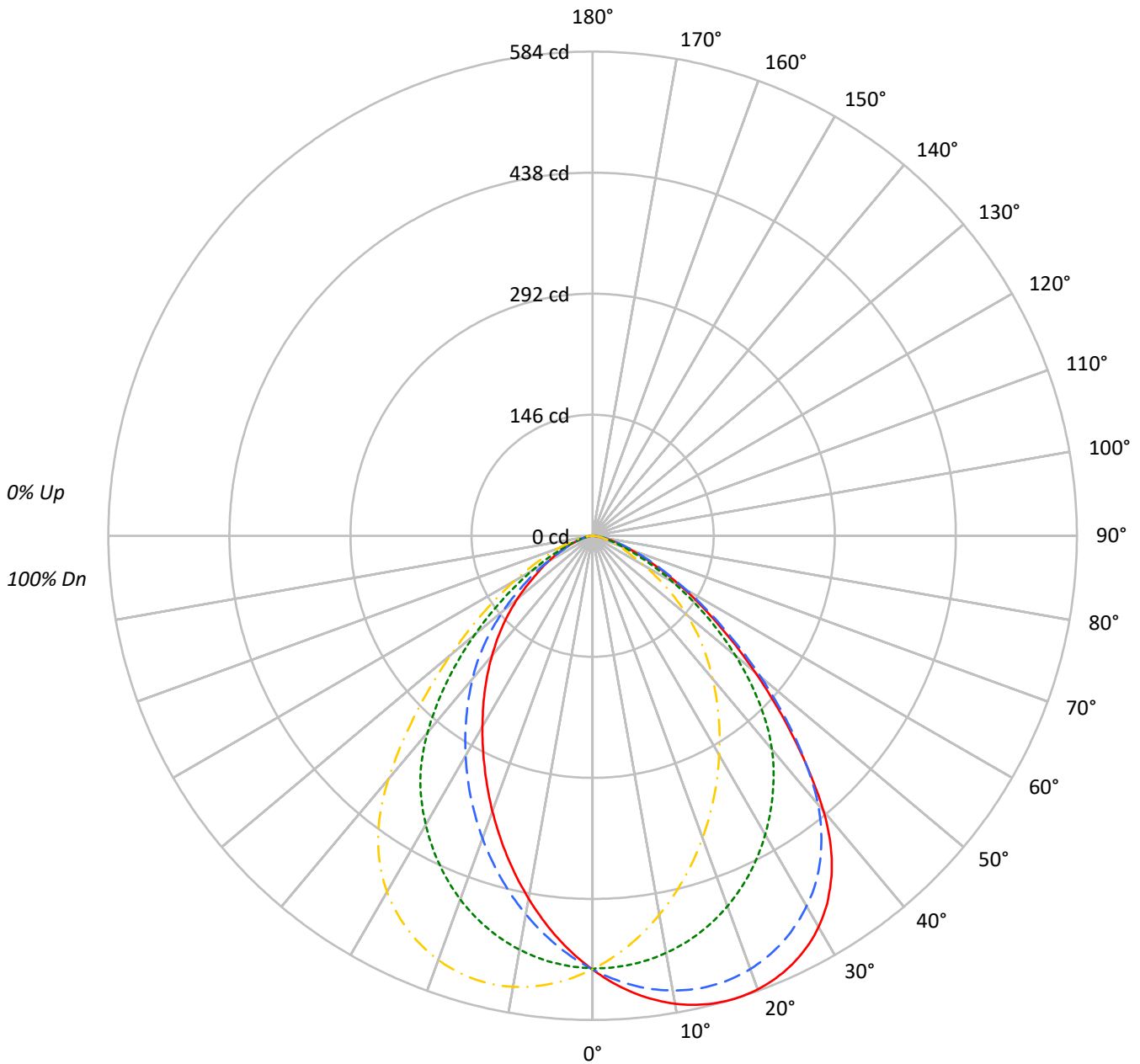
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	70	63	57	80	69	62	56	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°	270°
0°	28665	28665	28665	28665
5°	30426	28582	26783	28472
10°	31902	28440	24738	28217
15°	33093	28161	22656	27809
20°	33965	27746	20611	27221
25°	34478	27135	18642	26439
30°	34493	26339	16825	25466
35°	33595	25350	15138	24240
40°	30987	24081	13511	22156
45°	26468	22002	11869	19211
50°	21807	19198	10106	15837
55°	17490	15818	8191	12377
60°	13749	12258	6754	9287
65°	10455	8989	5279	6628
70°	7710	6299	3927	4568
75°	5465	4384	2923	3008
80°	3441	3125	2084	1894
85°	1132	2453	1069	943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 27212 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	4.8
10°-20°	138.7	13.5
20°-30°	202.7	19.7
30°-40°	227.8	22.2
40°-50°	196.5	19.1
50°-60°	126.2	12.3
60°-70°	61.2	6.0
70°-80°	21.9	2.1
80°-90°	3.8	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°	390.6	38.0
0°-40°	618.4	60.2
0°-60°	941.1	91.5
0°-90°	1028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	523	523	523	523	523	
5°	553	519	487	517	553	53
15°	583	496	399	490	583	165
25°	570	449	308	437	570	262
35°	502	379	226	362	502	311
45°	341	284	153	248	341	263
55°	183	166	86	130	183	165
65°	81	69	41	51	81	82
75°	26	21	14	14	26	28
85°	2	4	2	2	2	3
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°	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9
0.5°	526.8	526.4	525.6	524.4	521.6	520.9	520.5	520.3	520.1	520.2	520.8
1°	529.9	529.4	527.9	525.6	521.6	519.7	518.1	517.2	516.6	516.9	518.2
1.5°	533.1	532.4	530.1	526.8	521.6	518.2	515.6	513.9	513.1	513.6	515.7
2°	536.2	535.3	532.3	528.0	521.5	516.8	513.1	510.6	509.6	510.4	513.0
2.5°	539.2	538.0	534.5	529.0	521.3	515.3	510.4	507.2	505.9	506.9	510.3
3°	542.1	540.7	536.4	530.0	521.0	513.8	507.8	503.8	502.1	503.4	507.5
3.5°	544.9	543.3	538.5	531.0	520.7	512.2	505.0	500.2	498.4	499.9	504.8
4°	547.6	546.0	540.3	531.8	520.3	510.5	502.2	496.6	494.5	496.3	501.9
4.5°	550.3	548.3	542.2	532.6	519.9	508.7	499.3	493.0	490.6	492.7	499.0
5°	552.9	550.8	543.9	533.3	519.4	507.0	496.4	489.3	486.7	488.9	496.0
5.5°	555.3	553.0	545.6	534.0	518.8	505.0	493.4	485.6	482.7	485.2	493.0
6°	557.7	555.2	547.2	534.6	518.2	503.1	490.4	481.7	478.5	481.4	489.9
6.5°	559.9	557.3	548.7	535.1	517.5	501.2	487.2	477.9	474.5	477.5	486.8
7°	562.1	559.3	550.1	535.6	516.7	499.1	484.1	474.0	470.3	473.7	483.6
7.5°	564.2	561.2	551.5	535.9	515.9	497.0	480.9	470.0	466.0	469.8	480.4
8°	566.1	563.1	552.7	536.2	515.0	494.9	477.6	466.0	461.7	465.6	477.1
8.5°	568.0	564.9	553.9	536.5	514.1	492.7	474.2	461.8	457.5	461.6	473.8
9°	569.8	566.5	555.0	536.6	513.1	490.4	470.9	457.8	453.1	457.6	470.5
9.5°	571.5	568.1	556.0	536.8	512.0	488.1	467.5	453.7	448.7	453.4	467.0
10°	573.1	569.6	556.9	536.8	510.9	485.7	464.0	449.6	444.4	449.3	463.6
10.5°	574.6	571.0	557.8	536.7	509.7	483.3	460.5	445.4	440.1	445.2	460.1
11°	576.0	572.2	558.6	536.6	508.5	480.8	456.9	441.1	435.5	441.0	456.6
11.5°	577.2	573.4	559.2	536.4	507.1	478.2	453.3	436.9	431.0	436.8	453.0
12°	578.4	574.4	559.8	536.1	505.8	475.7	449.7	432.6	426.6	432.6	449.5
12.5°	579.5	575.4	560.3	535.8	504.3	473.0	446.1	428.3	422.1	428.2	445.9
13°	580.4	576.2	560.7	535.4	502.9	470.4	442.4	424.0	417.5	424.0	442.2
13.5°	581.3	577.0	561.0	534.8	501.3	467.7	438.7	419.7	413.0	419.7	438.6
14°	582.0	577.6	561.2	534.3	499.7	464.8	434.9	415.2	408.4	415.4	434.9
14.5°	582.6	578.2	561.2	533.6	498.0	462.0	431.1	410.8	403.9	410.9	431.1
15°	583.1	578.6	561.3	532.8	496.2	459.1	427.3	406.4	399.2	406.6	427.3
15.5°	583.5	578.9	561.2	532.0	494.5	456.2	423.4	402.1	394.7	402.3	423.5
16°	583.8	579.2	561.0	531.2	492.6	453.3	419.6	397.6	390.1	397.9	419.7
16.5°	584.0	579.2	560.8	530.2	490.7	450.2	415.6	393.1	385.5	393.5	415.9
17°	584.1	579.2	560.4	529.1	488.7	447.2	411.8	388.7	380.9	389.1	412.0
17.5°	584.0	579.2	559.9	527.9	486.7	444.1	407.8	384.2	376.2	384.6	408.1
18°	583.9	579.0	559.4	526.8	484.6	441.0	403.8	379.7	371.7	380.3	404.2
18.5°	583.6	578.7	558.6	525.4	482.4	437.8	399.8	375.3	367.1	375.8	400.2
19°	583.3	578.3	557.9	524.1	480.1	434.6	395.8	370.8	362.5	371.3	396.3
19.5°	582.8	577.8	557.0	522.6	477.9	431.4	391.9	366.3	357.9	367.0	392.4
20°	582.2	577.2	556.1	521.0	475.6	428.1	387.9	361.9	353.3	362.6	388.4
20.5°	581.5	576.4	555.0	519.4	473.1	424.8	383.7	357.5	348.9	358.1	384.4
21°	580.7	575.6	553.9	517.7	470.6	421.4	379.6	353.0	344.2	353.7	380.3



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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°	577.6	572.5	549.9	512.0	462.8	411.1	367.5	339.8	330.6	340.5	368.2
23°	576.3	571.2	548.3	510.0	460.1	407.6	363.3	335.3	326.0	336.1	364.1
23.5°	575.0	569.8	546.7	507.9	457.3	404.1	359.2	330.9	321.6	331.6	360.0
24°	573.4	568.3	544.9	505.6	454.5	400.5	355.1	326.4	317.1	327.2	356.0
24.5°	571.8	566.7	543.1	503.4	451.6	397.0	350.9	322.1	312.6	322.8	351.9
25°	570.0	565.0	541.1	501.0	448.6	393.4	346.7	317.6	308.2	318.5	347.8
25.5°	568.1	563.1	539.1	498.6	445.7	389.7	342.7	313.4	303.9	314.2	343.7
26°	566.2	561.2	537.0	496.0	442.6	386.0	338.6	309.0	299.6	309.9	339.5
26.5°	564.0	559.1	534.7	493.5	439.5	382.3	334.4	304.7	295.2	305.5	335.4
27°	561.8	556.9	532.3	490.7	436.4	378.6	330.1	300.4	290.9	301.3	331.2
27.5°	559.4	554.6	529.9	488.0	433.1	374.8	326.0	296.3	286.6	297.0	327.1
28°	556.9	552.1	527.3	485.1	429.8	371.0	321.9	292.0	282.4	292.8	323.0
28.5°	554.2	549.6	524.6	482.2	426.5	367.2	317.8	287.8	278.2	288.6	318.9
29°	551.3	546.9	521.8	479.1	423.1	363.4	313.6	283.5	274.1	284.4	314.7
29.5°	548.2	544.0	519.0	476.1	419.7	359.5	309.5	279.5	269.9	280.1	310.6
30°	544.9	541.0	516.0	473.0	416.1	355.7	305.3	275.3	265.8	276.0	306.4
30.5°	541.5	537.8	512.9	469.6	412.6	351.8	301.3	271.2	261.7	271.8	302.3
31°	538.0	534.4	509.7	466.2	409.1	347.8	297.2	267.2	257.7	267.7	298.2
31.5°	534.2	530.8	506.4	462.8	405.3	343.9	293.1	263.1	253.6	263.6	294.0
32°	530.4	527.0	502.9	459.3	401.7	340.0	289.0	259.1	249.7	259.5	290.0
32.5°	526.2	523.0	499.2	455.7	398.0	336.0	284.9	255.1	245.7	255.5	285.9
33°	521.6	518.9	495.4	452.1	394.2	331.8	280.8	251.2	241.8	251.5	281.6
33.5°	516.8	514.6	491.4	448.4	390.5	327.8	276.8	247.3	237.9	247.4	277.5
34°	512.2	510.2	487.2	444.5	386.6	323.8	272.7	243.3	234.0	243.6	273.5
34.5°	507.1	505.4	482.8	440.5	382.7	319.8	268.7	239.4	230.0	239.6	269.4
35°	502.0	500.5	478.3	436.5	378.8	315.8	264.7	235.5	226.2	235.6	265.3
35.5°	496.5	495.5	473.6	432.3	374.9	311.7	260.7	231.7	222.4	231.8	261.2
36°	490.6	490.1	468.8	428.0	370.9	307.7	256.8	227.9	218.7	227.9	257.2
36.5°	484.6	484.6	463.7	423.4	366.7	303.6	252.8	224.0	214.8	224.0	253.1
37°	478.2	478.8	458.5	418.8	362.7	299.6	248.8	220.2	211.1	220.1	249.1
37.5°	471.6	472.7	453.1	413.9	358.5	295.4	244.9	216.5	207.3	216.3	245.0
38°	464.6	466.4	447.5	409.0	354.2	291.3	240.9	212.7	203.6	212.5	241.0
38.5°	457.2	459.9	441.7	403.9	349.9	287.3	237.0	209.0	199.9	208.7	237.0
39°	449.7	453.1	435.7	398.6	345.6	283.1	233.2	205.2	196.2	204.9	233.1
39.5°	441.6	445.7	429.5	393.1	341.1	279.1	229.3	201.6	192.5	201.1	229.2
40°	433.0	438.0	422.9	387.4	336.5	274.9	225.3	197.8	188.8	197.3	225.2
40.5°	424.1	430.1	415.9	381.6	331.6	270.8	221.5	194.1	185.2	193.6	221.3
41°	415.1	421.9	408.7	375.5	326.8	266.8	217.6	190.4	181.6	189.8	217.5
41.5°	406.0	413.1	401.3	369.3	321.8	262.7	213.8	186.7	177.9	186.2	213.5
42°	396.5	404.4	393.8	362.9	316.8	258.6	209.9	183.1	174.4	182.5	209.5
42.5°	387.3	395.6	386.1	356.5	311.5	254.4	206.2	179.5	170.8	178.9	205.4
43°	378.1	386.7	378.2	349.9	306.0	250.1	202.4	175.9	167.2	175.3	201.2
43.5°	368.8	377.8	370.1	343.2	300.6	245.7	198.6	172.3	163.7	171.7	196.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	341.4	351.0	346.2	322.6	283.8	232.0	187.5	161.6	153.1	161.0	184.1
45.5°	332.6	342.2	337.9	315.6	277.9	227.2	183.8	158.1	149.6	157.5	179.7
46°	323.7	333.2	329.6	308.7	272.2	222.5	180.0	154.5	146.1	153.9	175.3
46.5°	314.5	324.2	321.4	301.5	266.3	217.7	176.2	151.0	142.5	150.3	171.1
47°	306.0	315.4	313.2	294.4	260.4	212.9	172.2	147.5	139.1	146.6	166.7
47.5°	297.0	306.7	304.8	287.1	254.5	208.0	168.3	144.0	135.6	143.0	162.2
48°	288.6	298.1	296.6	280.0	248.7	203.2	164.4	140.6	132.2	139.3	157.8
48.5°	280.4	289.7	288.4	272.7	242.7	198.3	160.4	137.0	128.7	135.6	153.5
49°	271.9	281.3	280.2	265.6	236.8	193.4	156.4	133.5	125.2	131.9	149.1
49.5°	263.9	272.9	272.3	258.3	230.8	188.5	152.4	130.1	121.8	128.2	144.7
50°	255.7	264.6	264.0	251.0	225.1	183.6	148.5	126.7	118.5	124.6	140.3
50.5°	247.5	256.5	256.2	243.7	219.0	178.6	144.4	123.1	115.1	120.8	136.1
51°	240.0	248.5	248.4	236.7	212.9	173.6	140.3	119.5	111.6	117.0	131.7
51.5°	232.3	240.7	240.7	229.6	207.0	168.9	136.3	116.1	108.3	113.4	127.6
52°	224.6	233.0	233.1	222.6	201.1	164.0	132.3	112.7	105.0	109.7	123.3
52.5°	217.6	225.4	225.6	215.4	194.9	159.1	128.2	109.1	101.6	106.1	119.1
53°	210.1	218.1	218.2	208.6	188.9	154.2	124.3	105.6	98.3	102.4	114.9
53.5°	203.2	210.8	211.0	201.8	183.0	149.4	120.3	102.2	94.9	98.8	110.8
54°	196.0	203.6	203.9	195.0	177.2	144.6	116.2	98.7	91.7	95.2	106.7
54.5°	189.2	196.6	197.0	188.3	171.3	139.9	112.3	95.2	88.4	91.7	102.7
55°	183.0	189.8	190.0	181.7	165.5	135.3	108.4	91.9	85.7	88.4	98.7
55.5°	176.4	183.2	183.4	175.3	159.7	130.5	104.5	88.5	83.1	85.0	94.9
56°	170.4	176.7	176.9	169.0	154.0	125.8	100.6	85.4	80.4	81.7	91.0
56.5°	164.1	170.4	170.5	162.7	148.5	121.3	96.8	82.3	77.7	78.4	87.4
57°	158.3	164.2	164.3	156.6	143.0	116.7	93.1	79.2	75.8	75.1	83.8
57.5°	152.6	158.2	158.1	150.7	137.6	112.1	89.4	76.1	73.5	71.9	80.1
58°	146.9	152.4	152.2	144.9	132.1	107.8	85.9	74.3	71.1	68.9	76.5
58.5°	141.5	146.7	146.5	139.3	126.9	103.4	82.3	72.2	68.7	66.2	72.9
59°	136.0	141.1	140.9	133.7	121.8	99.1	78.8	69.9	66.2	64.2	69.5
59.5°	130.8	135.9	135.5	128.3	116.7	94.9	75.3	67.5	63.9	62.1	66.1
60°	125.4	130.6	130.1	123.1	111.8	90.8	71.8	65.1	61.6	60.0	62.9
60.5°	120.3	125.4	124.9	117.9	106.9	86.8	68.5	62.7	59.3	57.8	59.9
61°	115.5	120.3	119.9	113.0	102.3	82.9	65.2	60.4	57.1	55.6	57.0
61.5°	110.7	115.5	115.0	108.1	97.8	78.9	62.3	58.1	55.0	53.5	54.1
62°	106.0	110.7	110.4	103.4	93.4	75.0	59.4	55.9	52.9	51.4	51.5
62.5°	101.4	106.1	105.8	98.9	89.3	71.5	56.6	53.8	50.8	49.4	48.9
63°	97.1	101.6	101.3	94.5	85.2	67.9	53.9	51.7	48.7	47.4	46.4
63.5°	92.8	97.3	97.0	90.2	81.1	64.4	51.7	49.7	46.7	45.5	44.1
64°	88.5	93.0	92.8	85.9	77.0	61.1	49.8	47.7	44.7	43.6	41.9
64.5°	84.4	89.1	88.8	81.9	73.0	57.9	47.9	45.8	42.7	41.7	39.8
65°	80.6	85.1	84.8	78.0	69.3	54.9	46.0	43.9	40.7	39.8	37.9
65.5°	76.9	81.3	81.0	74.3	65.7	51.9	44.2	42.1	38.9	38.0	36.1
66°	73.1	77.5	77.3	70.7	62.2	49.0	42.3	40.2	37.1	36.2	34.5





TEST NUMBER: P775775

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	62.9	67.2	67.0	60.5	52.7	41.4	37.2	35.1	31.9	31.1	30.2
68°	59.7	63.9	63.7	57.3	49.8	39.1	35.6	33.5	30.3	29.5	28.9
68.5°	56.7	60.8	60.5	54.3	46.9	36.9	34.0	31.9	28.8	28.0	27.6
69°	53.7	57.9	57.5	51.4	44.3	34.9	32.5	30.4	27.3	26.5	26.3
69.5°	50.8	55.0	54.7	48.6	41.7	32.9	31.1	28.9	25.9	25.1	25.1
70°	48.1	52.1	51.8	45.9	39.3	31.1	29.7	27.5	24.5	23.7	23.8
70.5°	45.5	49.5	49.2	43.4	36.9	29.4	28.4	26.2	23.3	22.4	22.6
71°	42.9	46.9	46.6	40.9	34.8	27.8	27.1	24.9	22.0	21.2	21.5
71.5°	40.4	44.5	44.1	38.6	32.7	26.2	25.8	23.6	20.8	20.0	20.4
72°	38.1	42.0	41.7	36.4	30.7	24.8	24.5	22.4	19.7	18.9	19.2
72.5°	35.6	39.7	39.4	34.5	28.8	23.4	23.4	21.3	18.6	17.9	18.2
73°	33.6	37.4	37.1	32.5	27.0	22.1	22.2	20.2	17.6	16.8	17.2
73.5°	31.6	35.8	35.2	30.6	25.3	20.9	21.1	19.1	16.6	15.9	16.2
74°	29.6	33.7	33.2	28.6	23.7	19.8	20.0	18.1	15.6	14.9	15.2
74.5°	27.6	31.7	31.3	26.6	22.2	18.7	19.0	17.1	14.7	14.0	14.3
75°	25.8	29.7	29.3	24.9	20.7	17.7	17.9	16.1	13.8	13.2	13.4
75.5°	23.9	27.7	27.4	23.3	19.3	16.8	17.0	15.2	13.0	12.3	12.6
76°	22.2	25.9	25.6	21.7	18.0	15.9	16.1	14.3	12.1	11.5	11.8
76.5°	20.6	24.2	23.9	20.2	16.8	15.0	15.2	13.5	11.3	10.7	11.0
77°	19.0	22.6	22.3	18.8	15.6	14.2	14.3	12.6	10.6	10.0	10.3
77.5°	17.5	21.1	20.7	17.5	14.5	13.4	13.5	11.8	9.9	9.3	9.6
78°	16.1	19.6	19.2	16.2	13.4	12.6	12.7	11.0	9.2	8.6	8.9
78.5°	14.7	18.2	17.8	14.9	12.4	11.9	11.9	10.2	8.5	8.0	8.3
79°	13.4	16.9	16.4	13.8	11.5	11.2	11.1	9.5	7.9	7.4	7.7
79.5°	12.1	15.6	15.1	12.7	10.6	10.5	10.4	8.8	7.3	6.7	7.1
80°	10.9	14.4	13.9	11.6	9.9	9.8	9.7	8.2	6.6	6.1	6.4
80.5°	9.8	13.2	12.8	10.7	9.1	9.2	9.0	7.5	6.0	5.5	5.8
81°	8.7	12.1	11.7	9.8	8.5	8.6	8.4	6.8	5.5	5.0	5.3
81.5°	7.6	11.0	10.6	8.9	7.8	8.0	7.7	6.1	4.9	4.5	4.8
82°	6.6	10.0	9.6	8.1	7.2	7.3	7.1	5.5	4.4	4.0	4.3
82.5°	5.7	9.0	8.7	7.4	6.5	6.7	6.4	5.0	3.9	3.5	3.8
83°	4.8	8.1	7.8	6.7	5.9	6.1	5.8	4.4	3.4	3.0	3.4
83.5°	3.9	7.2	7.0	6.0	5.4	5.6	5.2	3.9	3.0	2.6	3.0
84°	3.2	6.3	6.2	5.3	4.8	5.1	4.7	3.4	2.6	2.1	2.6
84.5°	2.5	5.5	5.5	4.7	4.4	4.6	4.2	2.9	2.1	1.8	2.2
85°	1.8	4.7	4.8	4.2	3.9	4.1	3.7	2.5	1.7	1.4	1.9
85.5°	1.1	3.9	4.1	3.6	3.4	3.6	3.2	2.1	1.4	1.2	1.5
86°	0.8	3.4	3.6	3.2	3.0	3.2	2.8	1.8	1.1	1.0	1.2
86.5°	0.6	2.8	3.1	2.7	2.6	2.7	2.4	1.5	0.9	0.8	0.9
87°	0.5	2.2	2.5	2.2	2.2	2.3	2.0	1.2	0.7	0.6	0.6
87.5°	0.3	1.7	2.0	1.8	1.8	1.9	1.6	1.0	0.5	0.4	0.3
88°	0.2	1.2	1.5	1.4	1.5	1.5	1.3	0.7	0.3	0.2	0.1
88.5°	0.1	0.7	1.0	1.0	1.2	1.1	0.9	0.5	0.2	0.1	0.0



TEST NUMBER: P775775  
CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

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

TEST NUMBER: P775775

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	522.9	522.9	522.9	522.9	522.9	522.9
0.5°	521.7	521.4	523.3	525.0	526.4	526.8
1°	520.3	521.3	524.4	527.3	529.4	529.9
1.5°	518.8	521.0	525.4	529.3	532.2	533.1
2°	517.2	520.7	526.4	531.4	535.0	536.2
2.5°	515.6	520.3	527.2	533.4	537.6	539.2
3°	514.0	519.9	528.0	535.2	540.3	542.1
3.5°	512.2	519.4	528.8	537.0	542.7	544.9
4°	510.4	518.8	529.4	538.7	545.2	547.6
4.5°	508.5	518.1	530.0	540.3	547.5	550.3
5°	506.6	517.4	530.5	541.9	549.8	552.9
5.5°	504.7	516.7	531.0	543.3	552.0	555.3
6°	502.6	515.9	531.4	544.7	554.0	557.7
6.5°	500.6	515.0	531.6	546.0	556.0	559.9
7°	498.5	514.0	531.8	547.2	557.8	562.1
7.5°	496.3	513.0	532.0	548.3	559.6	564.2
8°	494.1	511.9	532.0	549.3	561.3	566.1
8.5°	491.8	510.7	532.0	550.2	562.9	568.0
9°	489.5	509.6	531.9	551.0	564.4	569.8
9.5°	487.1	508.2	531.7	551.8	565.8	571.5
10°	484.7	506.9	531.4	552.4	567.1	573.1
10.5°	482.3	505.6	531.1	552.9	568.3	574.6
11°	479.7	504.1	530.6	553.4	569.4	576.0
11.5°	477.2	502.5	530.1	553.7	570.3	577.2
12°	474.5	500.9	529.5	554.0	571.2	578.4
12.5°	471.8	499.2	528.8	554.1	572.0	579.5
13°	469.1	497.5	528.1	554.2	572.6	580.4
13.5°	466.3	495.8	527.2	554.1	573.1	581.3
14°	463.5	493.9	526.3	554.0	573.6	582.0
14.5°	460.6	492.0	525.3	553.7	573.9	582.6
15°	457.7	490.0	524.1	553.4	574.1	583.1
15.5°	454.8	487.9	522.9	552.9	574.2	583.5
16°	451.8	485.9	521.7	552.4	574.2	583.8
16.5°	448.8	483.7	520.4	551.7	574.1	584.0
17°	445.7	481.5	518.9	551.0	573.9	584.1
17.5°	442.6	479.2	517.4	550.1	573.6	584.0
18°	439.4	476.8	515.8	549.2	573.2	583.9
18.5°	436.2	474.4	514.1	548.1	572.6	583.6
19°	433.0	471.9	512.3	547.0	572.0	583.3
19.5°	429.7	469.4	510.5	545.7	571.2	582.8
20°	426.4	466.6	508.5	544.4	570.4	582.2
20.5°	423.1	464.0	506.5	542.9	569.4	581.5
21°	419.6	461.3	504.4	541.4	568.3	580.7

TEST NUMBER: P775775

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	409.3	452.6	497.6	536.2	564.4	577.6
23°	405.7	449.7	495.1	534.2	562.9	576.3
23.5°	402.3	446.7	492.6	532.2	561.3	575.0
24°	398.6	443.6	490.0	530.1	559.5	573.4
24.5°	394.9	440.5	487.3	527.8	557.6	571.8
25°	391.3	437.1	484.5	525.4	555.6	570.0
25.5°	387.7	433.9	481.7	522.9	553.4	568.1
26°	384.0	430.6	478.8	520.4	551.3	566.2
26.5°	380.1	427.4	475.9	517.7	548.9	564.0
27°	376.4	423.8	472.8	514.9	546.5	561.8
27.5°	372.6	420.2	469.6	512.1	543.9	559.4
28°	368.8	416.9	466.2	509.1	541.1	556.9
28.5°	364.9	413.3	462.9	506.0	538.2	554.2
29°	361.0	409.7	459.5	502.8	535.2	551.3
29.5°	357.2	406.1	455.9	499.4	531.9	548.2
30°	353.2	402.3	452.5	495.9	528.5	544.9
30.5°	349.2	398.6	448.7	492.2	524.8	541.5
31°	345.3	394.7	445.1	488.4	521.0	538.0
31.5°	341.3	391.1	441.2	484.3	516.9	534.2
32°	337.3	386.9	437.2	480.1	512.8	530.4
32.5°	333.2	383.0	433.0	475.8	508.5	526.2
33°	329.1	378.9	428.6	471.2	504.1	521.6
33.5°	325.1	375.0	424.3	466.4	499.4	516.8
34°	321.0	370.8	419.5	461.3	494.2	512.2
34.5°	317.0	366.5	414.6	456.1	488.8	507.1
35°	312.8	362.2	409.6	450.8	483.3	502.0
35.5°	308.8	357.6	404.4	445.3	477.7	496.5
36°	304.7	352.8	399.1	439.5	471.8	490.6
36.5°	300.5	348.1	393.6	433.5	465.5	484.6
37°	296.3	343.1	387.7	427.1	458.9	478.2
37.5°	292.0	337.7	381.8	420.5	452.0	471.6
38°	287.8	332.3	375.3	413.7	444.7	464.6
38.5°	283.5	326.9	369.0	406.5	437.2	457.2
39°	279.1	321.3	362.1	398.9	429.3	449.7
39.5°	274.5	315.4	355.5	390.9	420.9	441.6
40°	269.8	309.6	348.3	382.7	412.1	433.0
40.5°	264.8	303.6	341.3	374.8	403.3	424.1
41°	259.9	297.6	334.2	366.4	394.3	415.1
41.5°	254.8	291.7	326.9	358.1	385.2	406.0
42°	249.6	285.4	319.8	349.8	375.9	396.5
42.5°	244.6	279.2	312.5	341.5	367.0	387.3
43°	239.4	273.0	305.0	332.9	358.1	378.1
43.5°	234.2	266.9	297.7	324.5	349.0	368.8

TEST NUMBER: P775775

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	218.5	247.8	275.4	299.6	322.4	341.4
45.5°	213.3	241.7	268.0	291.5	313.8	332.6
46°	208.0	235.3	260.6	283.2	305.1	323.7
46.5°	202.8	229.2	253.4	275.4	296.8	314.5
47°	197.3	222.9	246.2	267.5	288.3	306.0
47.5°	191.9	216.5	238.7	259.8	279.9	297.0
48°	186.7	210.3	231.6	252.1	271.7	288.6
48.5°	181.5	204.1	224.7	244.8	263.8	280.4
49°	176.1	198.1	217.9	237.3	255.8	271.9
49.5°	171.0	191.8	211.0	230.0	248.2	263.9
50°	165.8	185.7	204.1	222.9	240.3	255.7
50.5°	160.6	179.6	197.7	215.8	233.0	247.5
51°	155.5	173.7	191.1	209.0	225.6	240.0
51.5°	150.7	167.7	184.9	202.2	218.3	232.3
52°	145.4	162.1	178.8	195.6	211.3	224.6
52.5°	140.4	156.5	172.7	189.2	204.4	217.6
53°	135.5	150.7	166.7	182.8	197.5	210.1
53.5°	130.7	145.2	160.9	176.7	191.0	203.2
54°	125.8	140.0	155.3	170.5	184.4	196.0
54.5°	121.2	134.7	149.7	164.8	178.2	189.2
55°	116.5	129.5	144.3	158.9	172.1	183.0
55.5°	111.8	124.6	139.1	153.4	166.1	176.4
56°	107.3	119.7	133.8	147.9	160.3	170.4
56.5°	102.9	114.9	128.8	142.6	154.4	164.1
57°	98.6	110.3	123.8	137.3	148.9	158.3
57.5°	94.4	105.7	119.1	132.2	143.5	152.6
58°	90.3	101.3	114.4	127.4	138.3	146.9
58.5°	86.5	96.9	109.7	122.5	133.1	141.5
59°	82.6	92.8	105.5	117.8	128.1	136.0
59.5°	78.7	88.7	100.9	113.2	123.4	130.8
60°	74.9	84.7	96.9	108.8	118.6	125.4
60.5°	71.4	80.9	92.8	104.4	114.2	120.3
61°	68.0	77.1	88.8	100.1	109.5	115.5
61.5°	64.5	73.5	85.0	96.2	105.2	110.7
62°	61.2	70.0	81.3	92.2	101.0	106.0
62.5°	58.1	66.5	77.6	88.3	96.8	101.4
63°	55.1	63.1	74.1	84.5	92.7	97.1
63.5°	52.2	59.9	70.6	81.0	88.7	92.8
64°	49.4	56.9	67.3	77.4	84.8	88.5
64.5°	46.8	53.9	64.1	74.0	81.2	84.4
65°	44.3	51.1	61.0	70.6	77.5	80.6
65.5°	41.8	48.4	58.0	67.5	74.0	76.9
66°	39.5	45.7	55.0	64.3	70.5	73.1



TEST NUMBER: P775775

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	33.2	38.4	47.1	55.6	60.9	62.9
68°	31.3	36.3	44.5	52.8	58.0	59.7
68.5°	29.4	34.3	42.1	50.2	55.1	56.7
69°	27.8	32.4	39.8	47.6	52.4	53.7
69.5°	26.1	30.5	37.6	45.2	49.6	50.8
70°	24.6	28.5	35.6	42.8	47.1	48.1
70.5°	23.1	26.6	33.6	40.5	44.6	45.5
71°	21.8	25.0	31.7	38.3	42.3	42.9
71.5°	20.4	23.4	29.8	36.2	39.9	40.4
72°	19.2	21.8	27.8	34.3	37.7	38.1
72.5°	18.0	20.4	26.1	32.4	35.5	35.6
73°	16.9	19.0	24.4	30.5	33.6	33.6
73.5°	15.8	17.8	22.9	28.6	31.7	31.6
74°	14.8	16.5	21.4	26.7	29.7	29.6
74.5°	13.8	15.3	20.0	25.0	27.8	27.6
75°	12.9	14.2	18.5	23.4	26.1	25.8
75.5°	12.1	13.1	17.2	21.8	24.4	23.9
76°	11.3	12.1	15.9	20.3	22.7	22.2
76.5°	10.6	11.1	14.7	18.8	21.1	20.6
77°	9.9	10.3	13.6	17.4	19.7	19.0
77.5°	9.2	9.5	12.5	16.1	18.3	17.5
78°	8.6	8.7	11.5	14.9	16.9	16.1
78.5°	8.0	8.0	10.5	13.7	15.6	14.7
79°	7.5	7.3	9.6	12.5	14.3	13.4
79.5°	6.9	6.6	8.8	11.4	13.1	12.1
80°	6.3	6.0	7.9	10.4	12.0	10.9
80.5°	5.8	5.5	7.2	9.4	10.9	9.8
81°	5.3	4.9	6.4	8.5	9.8	8.7
81.5°	4.8	4.4	5.8	7.6	8.8	7.6
82°	4.3	3.9	5.1	6.7	7.9	6.6
82.5°	3.9	3.5	4.5	6.0	7.0	5.7
83°	3.4	3.1	3.9	5.2	6.2	4.8
83.5°	3.0	2.6	3.4	4.5	5.4	3.9
84°	2.6	2.2	2.9	3.9	4.7	3.2
84.5°	2.2	1.8	2.4	3.3	4.0	2.5
85°	1.8	1.5	1.9	2.8	3.5	1.8
85.5°	1.4	1.1	1.5	2.2	2.9	1.1
86°	1.1	0.8	1.1	1.6	2.3	0.8
86.5°	0.8	0.5	0.7	1.1	1.8	0.6
87°	0.4	0.2	0.3	0.7	1.2	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: P775775  
CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-HCD6TRLWW-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°	579.8	574.7	552.7	515.9	468.1	418.0	375.6	348.6	339.7	349.2	376.3
22°	578.8	573.6	551.3	514.0	465.5	414.6	371.5	344.1	335.1	344.9	372.2



44°	359.7	368.9	362.1	336.4	295.0	241.2	194.9	168.7	160.1	168.1	192.6
44.5°	350.7	359.9	354.3	329.5	289.4	236.7	191.2	165.1	156.5	164.5	188.4



66.5°	69.5	74.0	73.8	67.1	58.9	46.4	40.5	38.4	35.2	34.4	33.0
67°	66.1	70.6	70.2	63.7	55.8	43.8	38.8	36.8	33.5	32.8	31.6



89°	0.0	0.3	0.6	0.6	0.8	0.8	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°	416.3	458.3	502.2	539.7	567.2	579.8
22°	412.7	455.7	499.9	538.0	565.8	578.8



44°	228.9	260.6	290.3	316.1	340.0	359.7
44.5°	223.7	254.2	282.9	307.8	331.2	350.7

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66.5°	37.2	43.2	52.3	61.3	67.3	69.5
67°	35.1	40.7	49.6	58.3	64.0	66.1

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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)