

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: P775809

Luminaire Tested: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B015-HCD6TSQMB)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K  
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 763.8 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

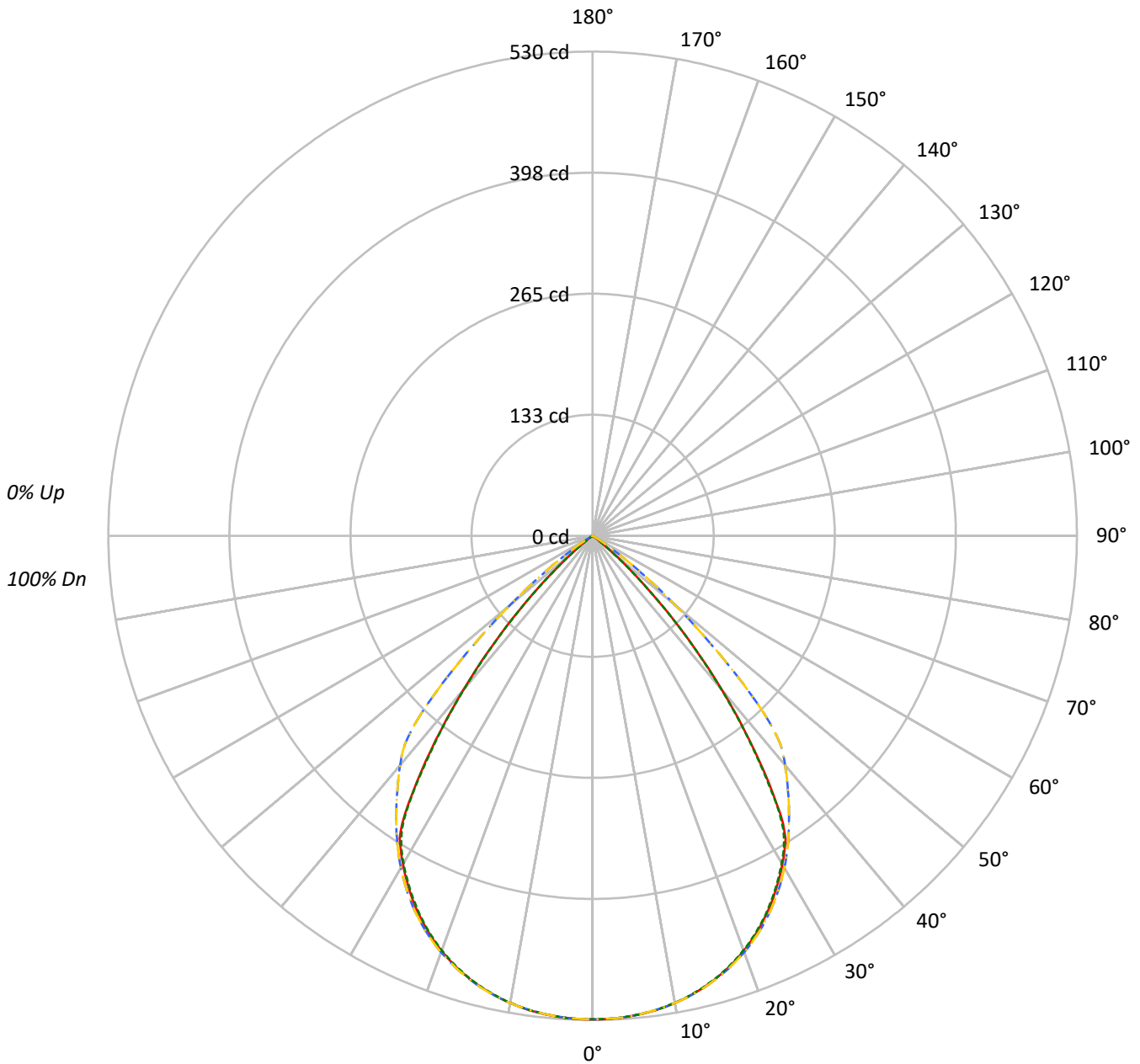
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

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

	0°	90°	180°	270°
0°	22789	22789	22789	22789
5°	22781	22773	22781	22773
10°	22704	22691	22704	22691
15°	22510	22492	22510	22492
20°	22153	22121	22153	22121
25°	21544	21487	21544	21487
30°	20637	20578	20637	20578
35°	18065	17944	18065	17944
40°	12337	12258	12337	12258
45°	6424	6430	6424	6430
50°	1869	1849	1869	1849
55°	53	75	53	75
60°	17	17	17	17
65°	10	10	10	10
70°	13	13	13	13
75°	0	17	0	17
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 14851 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	6.6
10°-20°	142.4	18.6
20°-30°	208.9	27.4
30°-40°	221.7	29.0
40°-50°	123.8	16.2
50°-60°	16.7	2.2
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	401.3	52.5
0°-40°	623.0	81.6
0°-60°	763.6	100.0
0°-90°	763.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	529	529	529	529	529	
5°	527	527	527	527	527	50
15°	505	505	505	505	505	142
25°	454	452	454	452	454	208
35°	344	341	344	341	344	208
45°	106	106	106	106	106	84
55°	1	1	1	1	1	5
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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°	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3
0.5°	529.5	529.3	529.3	529.2	529.3	529.2	529.3	529.3	529.5	529.3	529.3
1°	529.4	529.3	529.2	529.2	529.3	529.2	529.2	529.3	529.4	529.3	529.2
1.5°	529.3	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.3	529.1	529.1
2°	529.1	529.0	528.9	528.9	529.0	528.9	528.9	529.0	529.1	529.0	528.9
2.5°	528.9	528.8	528.7	528.7	528.8	528.7	528.7	528.8	528.9	528.8	528.7
3°	528.7	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.7	528.5	528.5
3.5°	528.4	528.3	528.2	528.2	528.2	528.2	528.2	528.3	528.4	528.3	528.2
4°	528.1	527.8	527.7	527.7	527.8	527.7	527.7	527.8	528.1	527.8	527.7
4.5°	527.6	527.4	527.4	527.3	527.4	527.3	527.4	527.4	527.6	527.4	527.4
5°	527.1	527.0	526.9	526.9	526.9	526.9	526.9	527.0	527.1	527.0	526.9
5.5°	526.6	526.5	526.4	526.4	526.4	526.4	526.4	526.5	526.6	526.5	526.4
6°	526.0	525.9	525.8	525.7	525.8	525.7	525.8	525.9	526.0	525.9	525.8
6.5°	525.4	525.3	525.2	525.2	525.2	525.2	525.2	525.3	525.4	525.3	525.2
7°	524.8	524.6	524.5	524.4	524.4	524.4	524.5	524.6	524.8	524.6	524.5
7.5°	524.0	523.9	523.8	523.7	523.7	523.7	523.8	523.9	524.0	523.9	523.8
8°	523.2	523.0	523.0	522.9	522.9	522.9	523.0	523.0	523.2	523.0	523.0
8.5°	522.3	522.2	522.2	522.1	522.0	522.1	522.2	522.2	522.3	522.2	522.2
9°	521.3	521.3	521.2	521.1	521.0	521.1	521.2	521.3	521.3	521.3	521.2
9.5°	520.4	520.4	520.3	520.2	520.1	520.2	520.3	520.4	520.4	520.4	520.3
10°	519.3	519.3	519.3	519.1	519.0	519.1	519.3	519.3	519.3	519.3	519.3
10.5°	518.2	518.2	518.2	518.0	517.9	518.0	518.2	518.2	518.2	518.2	518.2
11°	517.0	517.1	517.1	516.9	516.6	516.9	517.1	517.1	517.0	517.1	517.1
11.5°	515.8	515.9	515.9	515.6	515.4	515.6	515.9	515.9	515.8	515.9	515.9
12°	514.5	514.6	514.6	514.3	514.1	514.3	514.6	514.6	514.5	514.6	514.6
12.5°	513.1	513.2	513.3	512.9	512.7	512.9	513.3	513.2	513.1	513.2	513.3
13°	511.6	511.8	512.0	511.5	511.2	511.5	512.0	511.8	511.6	511.8	512.0
13.5°	510.1	510.4	510.5	510.0	509.7	510.0	510.5	510.4	510.1	510.4	510.5
14°	508.4	508.8	509.0	508.4	508.1	508.4	509.0	508.8	508.4	508.8	509.0
14.5°	506.8	507.2	507.4	506.8	506.4	506.8	507.4	507.2	506.8	507.2	507.4
15°	505.0	505.5	505.7	505.1	504.6	505.1	505.7	505.5	505.0	505.5	505.7
15.5°	503.3	503.6	504.0	503.3	502.8	503.3	504.0	503.6	503.3	503.6	504.0
16°	501.4	501.8	502.1	501.5	500.9	501.5	502.1	501.8	501.4	501.8	502.1
16.5°	499.5	499.9	500.2	499.6	498.9	499.6	500.2	499.9	499.5	499.9	500.2
17°	497.3	498.0	498.3	497.6	496.8	497.6	498.3	498.0	497.3	498.0	498.3
17.5°	495.3	495.9	496.3	495.5	494.7	495.5	496.3	495.9	495.3	495.9	496.3
18°	493.1	493.7	494.1	493.3	492.4	493.3	494.1	493.7	493.1	493.7	494.1
18.5°	490.8	491.6	492.0	491.2	490.2	491.2	492.0	491.6	490.8	491.6	492.0
19°	488.5	489.2	489.8	488.7	487.7	488.7	489.8	489.2	488.5	489.2	489.8
19.5°	486.0	486.9	487.4	486.4	485.4	486.4	487.4	486.9	486.0	486.9	487.4
20°	483.5	484.4	485.1	483.9	482.8	483.9	485.1	484.4	483.5	484.4	485.1
20.5°	480.9	482.0	482.6	481.4	480.2	481.4	482.6	482.0	480.9	482.0	482.6
21°	478.3	479.3	480.1	478.8	477.4	478.8	480.1	479.3	478.3	479.3	480.1



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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°	469.6	471.0	471.9	470.4	468.7	470.4	471.9	471.0	469.6	471.0	471.9
23°	466.6	468.0	469.0	467.4	465.6	467.4	469.0	468.0	466.6	468.0	469.0
23.5°	463.5	465.0	466.1	464.3	462.4	464.3	466.1	465.0	463.5	465.0	466.1
24°	460.2	461.9	463.0	461.1	459.2	461.1	463.0	461.9	460.2	461.9	463.0
24.5°	456.9	458.6	459.9	457.9	455.9	457.9	459.9	458.6	456.9	458.6	459.9
25°	453.5	455.3	456.6	454.5	452.3	454.5	456.6	455.3	453.5	455.3	456.6
25.5°	450.1	451.9	453.4	451.1	448.8	451.1	453.4	451.9	450.1	451.9	453.4
26°	446.6	448.5	450.0	447.7	445.2	447.7	450.0	448.5	446.6	448.5	450.0
26.5°	443.0	444.9	446.5	444.0	441.6	444.0	446.5	444.9	443.0	444.9	446.5
27°	439.1	441.4	443.0	440.4	437.8	440.4	443.0	441.4	439.1	441.4	443.0
27.5°	435.3	437.6	439.3	436.6	434.1	436.6	439.3	437.6	435.3	437.6	439.3
28°	431.4	433.8	435.6	432.8	430.1	432.8	435.6	433.8	431.4	433.8	435.6
28.5°	427.5	430.0	431.8	429.0	426.1	429.0	431.8	430.0	427.5	430.0	431.8
29°	423.4	426.1	427.8	425.0	422.1	425.0	427.8	426.1	423.4	426.1	427.8
29.5°	419.4	422.1	423.9	421.1	418.0	421.1	423.9	422.1	419.4	422.1	423.9
30°	415.1	418.0	419.7	417.0	413.9	417.0	419.7	418.0	415.1	418.0	419.7
30.5°	411.0	414.0	415.6	413.0	409.6	413.0	415.6	414.0	411.0	414.0	415.6
31°	406.6	409.8	411.3	408.8	405.2	408.8	411.3	409.8	406.6	409.8	411.3
31.5°	402.2	405.6	406.9	404.6	400.7	404.6	406.9	405.6	402.2	405.6	406.9
32°	397.7	401.3	402.5	400.3	395.1	400.3	402.5	401.3	397.7	401.3	402.5
32.5°	393.1	396.9	398.1	395.9	389.3	395.9	398.1	396.9	393.1	396.9	398.1
33°	385.5	392.5	393.5	391.6	383.0	391.6	393.5	392.5	385.5	392.5	393.5
33.5°	377.3	388.2	388.9	387.1	374.5	387.1	388.9	388.2	377.3	388.2	388.9
34°	367.3	383.7	384.2	381.6	365.0	381.6	384.2	383.7	367.3	383.7	384.2
34.5°	355.6	378.9	379.5	375.7	353.7	375.7	379.5	378.9	355.6	378.9	379.5
35°	343.7	371.7	374.8	369.6	341.4	369.6	374.8	371.7	343.7	371.7	374.8
35.5°	331.7	364.7	370.1	361.9	329.1	361.9	370.1	364.7	331.7	364.7	370.1
36°	319.4	355.2	365.3	353.4	316.8	353.4	365.3	355.2	319.4	355.2	365.3
36.5°	306.9	345.2	360.6	343.0	304.8	343.0	360.6	345.2	306.9	345.2	360.6
37°	294.2	333.8	355.9	332.1	292.4	332.1	355.9	333.8	294.2	333.8	355.9
37.5°	281.9	322.4	351.1	320.4	280.2	320.4	351.1	322.4	281.9	322.4	351.1
38°	269.1	310.6	346.5	308.6	268.0	308.6	346.5	310.6	269.1	310.6	346.5
38.5°	256.8	298.9	341.7	297.0	255.6	297.0	341.7	298.9	256.8	298.9	341.7
39°	244.4	287.0	337.1	285.5	243.0	285.5	337.1	287.0	244.4	287.0	337.1
39.5°	232.0	275.2	332.4	273.9	230.5	273.9	332.4	275.2	232.0	275.2	332.4
40°	219.5	263.3	327.7	262.3	218.1	262.3	327.7	263.3	219.5	263.3	327.7
40.5°	207.2	251.6	323.0	250.6	205.9	250.6	323.0	251.6	207.2	251.6	323.0
41°	195.2	239.8	318.2	239.0	193.9	239.0	318.2	239.8	195.2	239.8	318.2
41.5°	183.3	228.1	312.9	227.1	182.3	227.1	312.9	228.1	183.3	228.1	312.9
42°	171.4	216.4	306.9	215.4	170.7	215.4	306.9	216.4	171.4	216.4	306.9
42.5°	160.0	204.8	299.1	203.8	159.2	203.8	299.1	204.8	160.0	204.8	299.1
43°	148.5	193.2	290.3	192.4	148.0	192.4	290.3	193.2	148.5	193.2	290.3
43.5°	137.5	181.9	280.8	181.2	136.8	181.2	280.8	181.9	137.5	181.9	280.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	105.5	149.0	243.9	148.5	105.6	148.5	243.9	149.0	105.5	149.0	243.9
45.5°	95.9	138.3	230.0	138.0	95.9	138.0	230.0	138.3	95.9	138.3	230.0
46°	86.5	127.9	216.3	127.5	86.5	127.5	216.3	127.9	86.5	127.9	216.3
46.5°	77.2	117.6	202.7	117.3	77.0	117.3	202.7	117.6	77.2	117.6	202.7
47°	68.1	107.6	189.2	107.6	67.8	107.6	189.2	107.6	68.1	107.6	189.2
47.5°	59.4	98.1	176.3	98.2	59.5	98.2	176.3	98.1	59.4	98.1	176.3
48°	51.7	88.9	163.8	88.9	51.7	88.9	163.8	88.9	51.7	88.9	163.8
48.5°	44.7	80.0	151.7	79.9	44.6	79.9	151.7	80.0	44.7	80.0	151.7
49°	38.8	71.1	140.0	71.0	37.9	71.0	140.0	71.1	38.8	71.1	140.0
49.5°	33.3	62.6	128.6	62.6	32.6	62.6	128.6	62.6	33.3	62.6	128.6
50°	27.9	54.8	117.5	54.8	27.6	54.8	117.5	54.8	27.9	54.8	117.5
50.5°	23.0	48.0	106.8	47.3	22.8	47.3	106.8	48.0	23.0	48.0	106.8
51°	18.9	41.5	97.3	40.5	18.9	40.5	97.3	41.5	18.9	41.5	97.3
51.5°	15.1	35.8	87.9	35.0	14.8	35.0	87.9	35.8	15.1	35.8	87.9
52°	12.0	30.3	78.7	29.6	11.4	29.6	78.7	30.3	12.0	30.3	78.7
52.5°	9.1	25.2	69.7	24.5	8.1	24.5	69.7	25.2	9.1	25.2	69.7
53°	6.1	20.6	61.4	20.2	5.0	20.2	61.4	20.6	6.1	20.6	61.4
53.5°	4.1	16.4	53.9	15.8	3.0	15.8	53.9	16.4	4.1	16.4	53.9
54°	1.9	13.2	46.8	12.3	1.7	12.3	46.8	13.2	1.9	13.2	46.8
54.5°	1.2	10.1	40.7	9.1	1.3	9.1	40.7	10.1	1.2	10.1	40.7
55°	0.7	7.0	35.0	6.0	1.0	6.0	35.0	7.0	0.7	7.0	35.0
55.5°	0.3	4.5	29.6	4.1	0.6	4.1	29.6	4.5	0.3	4.5	29.6
56°	0.2	1.9	24.7	3.0	0.3	3.0	24.7	1.9	0.2	1.9	24.7
56.5°	0.2	1.0	20.0	1.8	0.2	1.8	20.0	1.0	0.2	1.0	20.0
57°	0.2	0.5	16.3	1.0	0.2	1.0	16.3	0.5	0.2	0.5	16.3
57.5°	0.2	0.4	13.1	0.4	0.2	0.4	13.1	0.4	0.2	0.4	13.1
58°	0.2	0.2	10.6	0.2	0.2	0.2	10.6	0.2	0.2	0.2	10.6
58.5°	0.2	0.2	8.2	0.2	0.2	0.2	8.2	0.2	0.2	0.2	8.2
59°	0.2	0.2	6.1	0.2	0.2	0.2	6.1	0.2	0.2	0.2	6.1
59.5°	0.2	0.2	4.5	0.2	0.2	0.2	4.5	0.2	0.2	0.2	4.5
60°	0.2	0.2	3.1	0.2	0.2	0.2	3.1	0.2	0.2	0.2	3.1
60.5°	0.2	0.2	2.1	0.2	0.2	0.2	2.1	0.2	0.2	0.2	2.1
61°	0.2	0.2	1.4	0.2	0.2	0.2	1.4	0.2	0.2	0.2	1.4
61.5°	0.2	0.2	0.9	0.2	0.2	0.2	0.9	0.2	0.2	0.2	0.9
62°	0.1	0.1	0.4	0.2	0.2	0.2	0.4	0.1	0.1	0.1	0.4
62.5°	0.1	0.1	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.3
63°	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2
63.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
64°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
64.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
66°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1





TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
75°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	529.3	529.3	529.3	529.3	529.3	529.3
0.5°	529.2	529.3	529.2	529.3	529.3	529.5
1°	529.2	529.3	529.2	529.2	529.3	529.4
1.5°	529.1	529.1	529.1	529.1	529.1	529.3
2°	528.9	529.0	528.9	528.9	529.0	529.1
2.5°	528.7	528.8	528.7	528.7	528.8	528.9
3°	528.5	528.5	528.5	528.5	528.5	528.7
3.5°	528.2	528.2	528.2	528.2	528.3	528.4
4°	527.7	527.8	527.7	527.7	527.8	528.1
4.5°	527.3	527.4	527.3	527.4	527.4	527.6
5°	526.9	526.9	526.9	526.9	527.0	527.1
5.5°	526.4	526.4	526.4	526.4	526.5	526.6
6°	525.7	525.8	525.7	525.8	525.9	526.0
6.5°	525.2	525.2	525.2	525.2	525.3	525.4
7°	524.4	524.4	524.4	524.5	524.6	524.8
7.5°	523.7	523.7	523.7	523.8	523.9	524.0
8°	522.9	522.9	522.9	523.0	523.0	523.2
8.5°	522.1	522.0	522.1	522.2	522.2	522.3
9°	521.1	521.0	521.1	521.2	521.3	521.3
9.5°	520.2	520.1	520.2	520.3	520.4	520.4
10°	519.1	519.0	519.1	519.3	519.3	519.3
10.5°	518.0	517.9	518.0	518.2	518.2	518.2
11°	516.9	516.6	516.9	517.1	517.1	517.0
11.5°	515.6	515.4	515.6	515.9	515.9	515.8
12°	514.3	514.1	514.3	514.6	514.6	514.5
12.5°	512.9	512.7	512.9	513.3	513.2	513.1
13°	511.5	511.2	511.5	512.0	511.8	511.6
13.5°	510.0	509.7	510.0	510.5	510.4	510.1
14°	508.4	508.1	508.4	509.0	508.8	508.4
14.5°	506.8	506.4	506.8	507.4	507.2	506.8
15°	505.1	504.6	505.1	505.7	505.5	505.0
15.5°	503.3	502.8	503.3	504.0	503.6	503.3
16°	501.5	500.9	501.5	502.1	501.8	501.4
16.5°	499.6	498.9	499.6	500.2	499.9	499.5
17°	497.6	496.8	497.6	498.3	498.0	497.3
17.5°	495.5	494.7	495.5	496.3	495.9	495.3
18°	493.3	492.4	493.3	494.1	493.7	493.1
18.5°	491.2	490.2	491.2	492.0	491.6	490.8
19°	488.7	487.7	488.7	489.8	489.2	488.5
19.5°	486.4	485.4	486.4	487.4	486.9	486.0
20°	483.9	482.8	483.9	485.1	484.4	483.5
20.5°	481.4	480.2	481.4	482.6	482.0	480.9
21°	478.8	477.4	478.8	480.1	479.3	478.3

TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	470.4	468.7	470.4	471.9	471.0	469.6
23°	467.4	465.6	467.4	469.0	468.0	466.6
23.5°	464.3	462.4	464.3	466.1	465.0	463.5
24°	461.1	459.2	461.1	463.0	461.9	460.2
24.5°	457.9	455.9	457.9	459.9	458.6	456.9
25°	454.5	452.3	454.5	456.6	455.3	453.5
25.5°	451.1	448.8	451.1	453.4	451.9	450.1
26°	447.7	445.2	447.7	450.0	448.5	446.6
26.5°	444.0	441.6	444.0	446.5	444.9	443.0
27°	440.4	437.8	440.4	443.0	441.4	439.1
27.5°	436.6	434.1	436.6	439.3	437.6	435.3
28°	432.8	430.1	432.8	435.6	433.8	431.4
28.5°	429.0	426.1	429.0	431.8	430.0	427.5
29°	425.0	422.1	425.0	427.8	426.1	423.4
29.5°	421.1	418.0	421.1	423.9	422.1	419.4
30°	417.0	413.9	417.0	419.7	418.0	415.1
30.5°	413.0	409.6	413.0	415.6	414.0	411.0
31°	408.8	405.2	408.8	411.3	409.8	406.6
31.5°	404.6	400.7	404.6	406.9	405.6	402.2
32°	400.3	395.1	400.3	402.5	401.3	397.7
32.5°	395.9	389.3	395.9	398.1	396.9	393.1
33°	391.6	383.0	391.6	393.5	392.5	385.5
33.5°	387.1	374.5	387.1	388.9	388.2	377.3
34°	381.6	365.0	381.6	384.2	383.7	367.3
34.5°	375.7	353.7	375.7	379.5	378.9	355.6
35°	369.6	341.4	369.6	374.8	371.7	343.7
35.5°	361.9	329.1	361.9	370.1	364.7	331.7
36°	353.4	316.8	353.4	365.3	355.2	319.4
36.5°	343.0	304.8	343.0	360.6	345.2	306.9
37°	332.1	292.4	332.1	355.9	333.8	294.2
37.5°	320.4	280.2	320.4	351.1	322.4	281.9
38°	308.6	268.0	308.6	346.5	310.6	269.1
38.5°	297.0	255.6	297.0	341.7	298.9	256.8
39°	285.5	243.0	285.5	337.1	287.0	244.4
39.5°	273.9	230.5	273.9	332.4	275.2	232.0
40°	262.3	218.1	262.3	327.7	263.3	219.5
40.5°	250.6	205.9	250.6	323.0	251.6	207.2
41°	239.0	193.9	239.0	318.2	239.8	195.2
41.5°	227.1	182.3	227.1	312.9	228.1	183.3
42°	215.4	170.7	215.4	306.9	216.4	171.4
42.5°	203.8	159.2	203.8	299.1	204.8	160.0
43°	192.4	148.0	192.4	290.3	193.2	148.5
43.5°	181.2	136.8	181.2	280.8	181.9	137.5



TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	148.5	105.6	148.5	243.9	149.0	105.5
45.5°	138.0	95.9	138.0	230.0	138.3	95.9
46°	127.5	86.5	127.5	216.3	127.9	86.5
46.5°	117.3	77.0	117.3	202.7	117.6	77.2
47°	107.6	67.8	107.6	189.2	107.6	68.1
47.5°	98.2	59.5	98.2	176.3	98.1	59.4
48°	88.9	51.7	88.9	163.8	88.9	51.7
48.5°	79.9	44.6	79.9	151.7	80.0	44.7
49°	71.0	37.9	71.0	140.0	71.1	38.8
49.5°	62.6	32.6	62.6	128.6	62.6	33.3
50°	54.8	27.6	54.8	117.5	54.8	27.9
50.5°	47.3	22.8	47.3	106.8	48.0	23.0
51°	40.5	18.9	40.5	97.3	41.5	18.9
51.5°	35.0	14.8	35.0	87.9	35.8	15.1
52°	29.6	11.4	29.6	78.7	30.3	12.0
52.5°	24.5	8.1	24.5	69.7	25.2	9.1
53°	20.2	5.0	20.2	61.4	20.6	6.1
53.5°	15.8	3.0	15.8	53.9	16.4	4.1
54°	12.3	1.7	12.3	46.8	13.2	1.9
54.5°	9.1	1.3	9.1	40.7	10.1	1.2
55°	6.0	1.0	6.0	35.0	7.0	0.7
55.5°	4.1	0.6	4.1	29.6	4.5	0.3
56°	3.0	0.3	3.0	24.7	1.9	0.2
56.5°	1.8	0.2	1.8	20.0	1.0	0.2
57°	1.0	0.2	1.0	16.3	0.5	0.2
57.5°	0.4	0.2	0.4	13.1	0.4	0.2
58°	0.2	0.2	0.2	10.6	0.2	0.2
58.5°	0.2	0.2	0.2	8.2	0.2	0.2
59°	0.2	0.2	0.2	6.1	0.2	0.2
59.5°	0.2	0.2	0.2	4.5	0.2	0.2
60°	0.2	0.2	0.2	3.1	0.2	0.2
60.5°	0.2	0.2	0.2	2.1	0.2	0.2
61°	0.2	0.2	0.2	1.4	0.2	0.2
61.5°	0.2	0.2	0.2	0.9	0.2	0.2
62°	0.2	0.2	0.2	0.4	0.1	0.1
62.5°	0.1	0.1	0.1	0.3	0.1	0.1
63°	0.1	0.1	0.1	0.2	0.1	0.1
63.5°	0.1	0.1	0.1	0.1	0.1	0.1
64°	0.1	0.1	0.1	0.1	0.1	0.1
64.5°	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1
65.5°	0.1	0.1	0.1	0.1	0.1	0.1
66°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.1	0.1	0.1	0.1	0.1	0.1
68°	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.0	0.1	0.1
75°	0.1	0.1	0.1	0.0	0.0	0.0
75.5°	0.1	0.1	0.1	0.0	0.0	0.0
76°	0.0	0.1	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775809

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQMB-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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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

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21.5°	475.5	476.7	477.4	476.0	474.5	476.0	477.4	476.7	475.5	476.7	477.4
22°	472.6	473.9	474.6	473.2	471.6	473.2	474.6	473.9	472.6	473.9	474.6



44°	126.5	170.6	269.3	170.1	125.9	170.1	269.3	170.6	126.5	170.6	269.3
44.5°	115.9	159.7	256.8	159.3	115.5	159.3	256.8	159.7	115.9	159.7	256.8



66.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



89°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0



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21.5°	476.0	474.5	476.0	477.4	476.7	475.5
22°	473.2	471.6	473.2	474.6	473.9	472.6



44°	170.1	125.9	170.1	269.3	170.6	126.5
44.5°	159.3	115.5	159.3	256.8	159.7	115.9

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66.5°	0.1	0.1	0.1	0.1	0.1	0.1
67°	0.1	0.1	0.1	0.1	0.1	0.1

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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)