

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: P775881

Luminaire Tested: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD8TRMB-1000lm-3000K  
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

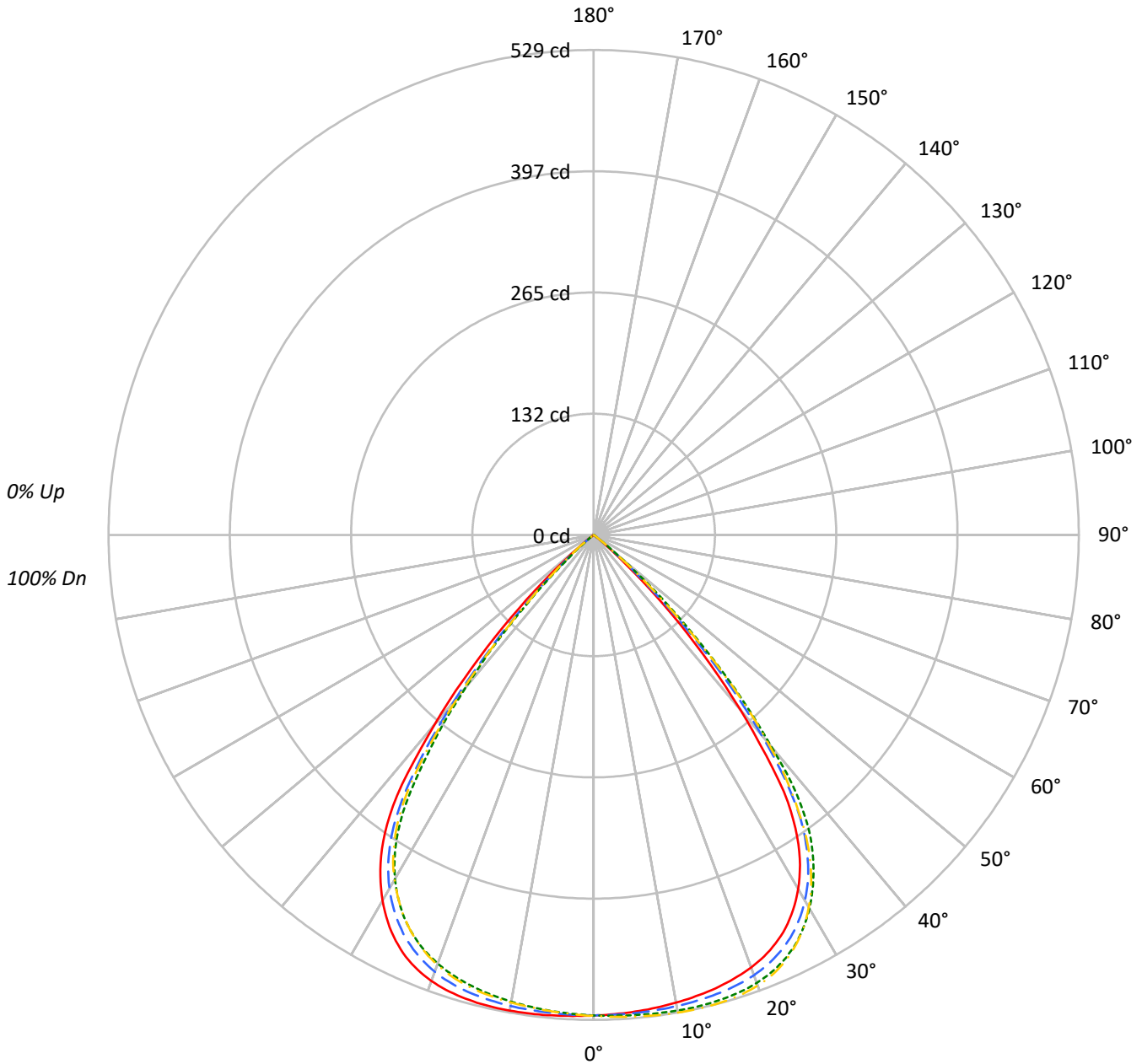
Lumens per Lamp: N/A  
Luminaire Lumens: 752.5 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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										
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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93								
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85								
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78								
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71								
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65								
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60								
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55								
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51								
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47								
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43								

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

	0°	90°	180°	270°
0°	16007	16007	16007	16007
5°	15995	16114	16123	15979
10°	16062	16331	16335	16028
15°	16189	16619	16597	16117
20°	16313	16895	16820	16164
25°	16260	16975	16789	15981
30°	15727	16583	16227	15279
35°	14144	15467	14800	13265
40°	9900	12024	10737	8617
45°	4715	6723	5492	3562
50°	959	1805	1021	456
55°	43	64	37	27
60°	12	12	12	12
65°	7	7	7	7
70°	9	9	9	9
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6723 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	6.6
10°-20°	146.6	19.5
20°-30°	224.6	29.8
30°-40°	233.7	31.1
40°-50°	94.3	12.5
50°-60°	3.2	0.4
60°-70°	0.1	0.0
70°-80°	0.0	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°	421.1	56.0
0°-40°	654.8	87.0
0°-60°	752.4	100.0
0°-90°	752.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	524	524	524	524	524	
5°	522	526	526	521	522	50
15°	512	526	525	510	512	145
25°	483	504	498	474	483	221
35°	380	415	397	356	380	228
45°	109	156	127	82	109	88
55°	1	1	1	0	1	3
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°	524.3	524.3	524.3	524.3	524.3	524.3	524.3	524.3	524.3	524.3	524.3
0.5°	524.1	523.9	524.1	524.2	524.3	524.8	525.0	525.0	524.5	524.2	524.1
1°	523.9	523.9	524.1	524.3	524.5	525.1	525.3	525.2	524.7	524.3	524.0
1.5°	523.7	523.7	524.1	524.4	524.7	525.3	525.6	525.5	524.9	524.3	524.0
2°	523.5	523.6	524.0	524.5	524.9	525.5	525.9	525.8	525.0	524.4	524.0
2.5°	523.3	523.4	524.0	524.6	525.0	525.8	526.2	526.0	525.2	524.5	523.9
3°	523.0	523.3	523.9	524.6	525.1	526.1	526.4	526.3	525.4	524.6	523.8
3.5°	522.8	523.1	523.9	524.6	525.3	526.2	526.6	526.5	525.6	524.6	523.7
4°	522.5	522.9	523.7	524.7	525.4	526.4	526.9	526.7	525.9	524.6	523.7
4.5°	522.2	522.7	523.6	524.7	525.5	526.7	527.1	526.9	526.0	524.7	523.5
5°	521.9	522.5	523.5	524.7	525.8	526.9	527.3	527.2	526.1	524.7	523.4
5.5°	521.6	522.2	523.4	524.8	525.9	527.1	527.6	527.4	526.3	524.7	523.3
6°	521.3	522.0	523.3	524.8	526.0	527.3	527.8	527.5	526.4	524.8	523.2
6.5°	521.0	521.7	523.1	524.8	526.2	527.5	528.0	527.7	526.5	524.8	523.1
7°	520.6	521.4	523.0	524.8	526.3	527.6	528.2	527.9	526.6	524.7	522.9
7.5°	520.2	521.1	522.9	524.9	526.4	527.8	528.4	528.1	526.7	524.7	522.8
8°	519.8	520.7	522.7	524.8	526.5	528.0	528.6	528.2	526.8	524.8	522.6
8.5°	519.4	520.3	522.5	524.9	526.6	528.1	528.7	528.4	526.8	524.7	522.4
9°	519.0	520.0	522.3	524.8	526.7	528.2	528.9	528.5	526.9	524.6	522.3
9.5°	518.5	519.6	522.1	524.8	526.7	528.3	529.0	528.6	526.9	524.6	522.0
10°	518.1	519.2	521.9	524.7	526.8	528.4	529.1	528.7	526.9	524.5	521.8
10.5°	517.6	518.8	521.7	524.7	526.8	528.5	529.2	528.7	526.9	524.4	521.5
11°	517.1	518.4	521.4	524.6	526.8	528.6	529.3	528.8	526.8	524.2	521.2
11.5°	516.6	517.9	521.1	524.5	526.8	528.6	529.3	528.8	526.8	524.0	520.9
12°	516.1	517.4	520.9	524.4	526.8	528.6	529.4	528.8	526.7	523.8	520.4
12.5°	515.4	517.0	520.5	524.3	526.7	528.6	529.4	528.7	526.5	523.6	520.1
13°	514.8	516.4	520.1	524.1	526.6	528.6	529.3	528.7	526.4	523.3	519.6
13.5°	514.2	515.9	519.8	523.9	526.4	528.6	529.2	528.6	526.2	522.9	519.2
14°	513.5	515.3	519.4	523.7	526.2	528.4	529.1	528.5	525.9	522.6	518.6
14.5°	512.9	514.7	519.0	523.4	526.1	528.3	529.0	528.3	525.5	522.2	518.1
15°	512.2	514.1	518.5	523.1	525.8	528.1	528.8	528.1	525.1	521.7	517.5
15.5°	511.4	513.5	518.0	522.7	525.5	527.9	528.5	527.8	524.7	521.2	516.8
16°	510.5	512.8	517.5	522.3	525.1	527.6	528.2	527.4	524.2	520.5	516.1
16.5°	509.7	512.1	516.9	521.9	524.7	527.2	527.9	527.0	523.7	519.8	515.2
17°	508.8	511.3	516.3	521.3	524.3	526.8	527.4	526.4	523.1	519.1	514.3
17.5°	507.8	510.4	515.5	520.6	523.8	526.3	526.9	525.9	522.5	518.3	513.3
18°	506.8	509.6	514.7	519.9	523.2	525.6	526.4	525.1	521.7	517.4	512.2
18.5°	505.7	508.6	514.0	519.2	522.6	524.9	525.6	524.3	520.9	516.4	511.1
19°	504.5	507.7	513.1	518.4	521.8	524.1	524.9	523.5	519.8	515.2	509.8
19.5°	503.3	506.6	512.1	517.4	521.0	523.3	524.1	522.5	518.8	514.0	508.4
20°	502.1	505.4	511.1	516.4	520.0	522.4	523.1	521.5	517.7	512.7	506.9
20.5°	500.6	504.2	509.8	515.2	519.0	521.3	522.1	520.2	516.4	511.3	505.2
21°	499.1	502.9	508.6	514.0	517.8	520.0	520.9	519.0	515.0	509.6	503.6



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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°	494.0	498.4	504.1	509.6	513.8	515.6	516.4	514.2	509.9	504.2	497.6
23°	492.1	496.7	502.4	507.9	512.2	513.9	514.6	512.4	508.0	502.1	495.3
23.5°	489.9	494.8	500.5	506.0	510.2	512.0	512.7	510.2	505.9	499.7	493.0
24°	487.7	492.8	498.5	504.0	508.5	509.9	510.6	508.1	503.6	497.4	490.4
24.5°	485.3	490.7	496.4	501.8	506.5	507.7	508.2	505.7	501.1	494.7	487.7
25°	482.7	488.4	494.1	499.4	503.9	505.3	505.9	503.2	498.4	492.0	484.8
25.5°	480.0	486.0	491.6	497.0	501.6	502.7	503.1	500.4	495.5	489.0	481.9
26°	477.1	483.2	488.9	494.3	499.0	499.9	500.2	497.5	492.5	485.8	478.6
26.5°	474.0	480.4	486.2	491.5	496.2	496.8	497.1	494.3	489.2	482.5	475.1
27°	470.6	477.3	483.1	488.5	492.9	493.6	493.7	491.0	485.7	479.0	471.6
27.5°	467.1	474.1	479.8	485.3	489.8	490.2	490.2	487.4	482.1	475.2	467.6
28°	463.3	470.5	476.4	481.9	486.4	486.5	486.6	483.5	478.2	471.3	463.6
28.5°	459.3	466.8	472.8	478.4	482.7	482.6	482.5	479.4	474.0	467.0	459.4
29°	455.0	462.8	468.9	474.6	478.8	478.5	478.4	475.1	469.7	462.7	454.9
29.5°	450.7	458.7	464.9	470.6	474.8	474.1	473.9	470.6	465.1	458.1	450.2
30°	446.1	454.2	460.6	466.6	470.4	469.5	469.2	466.0	460.3	453.4	445.3
30.5°	441.3	449.5	456.2	462.2	466.1	464.7	464.3	460.9	455.3	448.4	440.2
31°	435.9	444.4	451.5	457.5	461.3	459.5	459.0	455.6	450.1	443.1	434.7
31.5°	430.4	439.2	446.6	452.7	456.3	454.3	453.7	450.1	444.7	437.6	428.9
32°	424.6	433.5	441.2	447.8	451.2	448.8	447.7	444.3	438.9	431.9	422.7
32.5°	418.4	427.4	435.4	442.4	445.9	442.8	441.5	438.1	432.8	425.8	415.8
33°	411.6	420.9	429.4	436.9	440.1	436.6	435.0	431.5	426.5	419.4	408.9
33.5°	404.5	413.9	422.9	431.0	434.3	430.1	428.1	424.6	419.9	412.7	401.5
34°	396.7	406.8	416.4	424.9	428.2	423.4	420.8	417.3	412.9	405.4	393.5
34.5°	388.4	398.9	409.0	418.5	421.8	416.0	413.0	409.5	405.2	397.5	384.8
35°	379.5	390.3	401.5	411.5	415.0	408.2	404.5	401.1	397.1	388.6	374.8
35.5°	370.3	381.0	393.1	403.9	407.6	399.4	395.6	392.1	388.1	378.7	364.3
36°	360.2	371.1	384.4	395.6	399.7	390.4	386.3	382.4	378.3	368.3	353.1
36.5°	348.4	360.4	374.6	386.3	391.0	380.3	376.1	372.3	367.7	356.8	340.6
37°	334.8	348.0	363.9	376.6	381.3	370.3	365.9	361.7	356.1	344.3	327.6
37.5°	320.2	334.1	352.4	365.7	371.0	359.2	355.3	350.7	343.3	330.2	313.5
38°	305.7	320.0	340.1	355.0	360.2	347.8	344.6	339.2	329.2	315.2	299.4
38.5°	290.8	306.2	327.2	342.5	348.4	335.3	333.4	327.4	314.3	299.9	284.6
39°	276.5	293.2	313.6	330.0	334.1	322.7	321.6	314.8	299.1	283.9	269.2
39.5°	262.5	279.8	299.3	316.1	317.9	309.0	308.3	301.6	283.9	268.2	253.5
40°	248.4	266.8	284.6	302.1	301.7	294.8	295.2	287.5	269.4	252.7	237.9
40.5°	233.8	252.4	270.0	286.3	286.1	279.8	282.5	273.3	255.3	237.4	221.2
41°	219.0	237.4	255.3	270.4	272.0	265.1	268.4	258.8	241.0	222.5	205.1
41.5°	204.6	221.9	240.2	254.4	257.9	249.8	254.0	243.7	226.5	207.3	189.4
42°	190.1	207.2	225.3	238.1	243.5	235.5	239.2	228.7	211.5	192.3	175.0
42.5°	176.1	192.7	210.3	221.6	229.0	221.1	224.0	213.8	197.1	177.3	159.5
43°	162.7	178.3	195.1	206.0	213.4	206.9	208.2	198.4	182.2	162.2	145.4
43.5°	148.9	164.2	179.5	190.1	198.2	192.3	193.0	183.5	168.2	147.9	131.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	109.2	121.6	133.0	146.3	155.7	148.7	146.4	140.4	127.2	110.3	94.6
45.5°	96.3	108.1	118.7	132.5	141.9	134.7	132.3	126.1	114.2	98.7	82.9
46°	84.6	95.1	105.3	119.8	128.4	121.0	117.8	112.6	101.9	87.1	71.1
46.5°	73.1	82.7	92.7	107.3	114.5	108.6	105.7	100.2	89.7	75.6	59.5
47°	62.1	70.9	80.7	95.2	102.7	96.0	93.7	88.0	77.5	64.0	50.4
47.5°	51.9	59.5	69.9	83.6	90.8	83.5	81.6	75.7	65.2	54.0	42.1
48°	43.0	49.3	59.7	72.1	79.0	70.9	69.6	63.4	54.7	44.8	34.8
48.5°	34.9	40.1	50.5	61.6	67.1	58.4	57.6	53.0	45.0	36.4	28.2
49°	30.0	32.7	42.3	52.0	56.9	47.7	48.2	43.1	36.1	28.9	22.6
49.5°	25.1	27.6	34.7	43.4	47.0	38.6	39.0	34.5	28.4	22.3	17.6
50°	20.2	22.5	29.6	35.4	38.0	30.6	30.6	26.9	21.5	18.6	14.5
50.5°	15.2	17.3	24.6	30.0	29.7	23.5	23.5	20.2	17.8	14.7	11.5
51°	10.4	12.3	19.6	24.7	22.5	19.4	19.3	16.6	14.0	10.9	8.5
51.5°	7.6	9.3	14.6	19.4	18.6	15.2	15.2	13.1	10.2	7.0	5.4
52°	5.2	6.6	9.6	14.1	14.7	11.1	11.0	9.5	6.4	3.2	2.4
52.5°	3.3	4.4	6.5	8.8	10.7	7.0	6.8	5.9	2.8	2.0	1.6
53°	2.8	3.8	4.1	5.6	6.8	3.1	2.8	2.2	1.8	1.5	1.3
53.5°	2.1	3.1	3.4	3.3	3.1	1.9	1.8	1.6	1.4	1.2	1.0
54°	1.5	2.3	2.6	2.7	1.9	1.5	1.4	1.3	1.1	0.9	0.8
54.5°	1.0	1.6	1.8	2.0	1.5	1.2	1.1	1.0	0.8	0.7	0.6
55°	0.8	0.9	1.1	1.5	1.2	0.9	0.9	0.8	0.7	0.6	0.5
55.5°	0.6	0.7	0.8	0.9	0.9	0.7	0.7	0.6	0.5	0.5	0.4
56°	0.5	0.6	0.7	0.7	0.7	0.5	0.5	0.5	0.4	0.4	0.4
56.5°	0.4	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.3	0.3
57°	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3
57.5°	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
58°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
58.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
59°	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
59.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
61°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
63°	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P775881

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**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	0.0	0.0	0.0	0.0
71.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	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: P775881  
CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**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: P775881

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	524.3	524.3	524.3	524.3	524.3	524.3
0.5°	524.0	523.9	524.3	524.5	524.5	524.1
1°	523.9	523.7	524.0	524.2	524.2	523.9
1.5°	523.7	523.4	523.7	523.9	523.9	523.7
2°	523.5	523.2	523.4	523.6	523.6	523.5
2.5°	523.4	522.9	523.2	523.3	523.4	523.3
3°	523.2	522.7	522.9	523.0	523.0	523.0
3.5°	522.9	522.4	522.5	522.7	522.7	522.8
4°	522.8	522.1	522.2	522.4	522.4	522.5
4.5°	522.5	521.7	521.9	522.1	522.1	522.2
5°	522.3	521.4	521.5	521.7	521.9	521.9
5.5°	522.0	521.1	521.2	521.4	521.5	521.6
6°	521.8	520.6	520.7	521.1	521.2	521.3
6.5°	521.5	520.2	520.4	520.6	520.9	521.0
7°	521.1	519.8	520.0	520.3	520.5	520.6
7.5°	520.7	519.4	519.6	519.9	520.1	520.2
8°	520.4	519.0	519.2	519.6	519.8	519.8
8.5°	520.0	518.5	518.7	519.2	519.4	519.4
9°	519.6	518.0	518.3	518.8	519.0	519.0
9.5°	519.3	517.5	517.8	518.4	518.6	518.5
10°	518.8	517.0	517.3	518.0	518.2	518.1
10.5°	518.4	516.4	516.8	517.5	517.7	517.6
11°	517.9	515.9	516.3	517.1	517.3	517.1
11.5°	517.4	515.1	515.6	516.6	516.8	516.6
12°	516.9	514.5	515.0	516.1	516.3	516.1
12.5°	516.3	513.9	514.3	515.4	515.7	515.4
13°	515.6	513.2	513.6	514.8	515.1	514.8
13.5°	514.9	512.5	513.0	514.2	514.4	514.2
14°	514.3	511.7	512.2	513.5	513.8	513.5
14.5°	513.5	510.9	511.4	512.7	513.1	512.9
15°	512.8	509.9	510.5	511.9	512.3	512.2
15.5°	512.0	509.0	509.5	511.1	511.5	511.4
16°	511.0	508.0	508.6	510.0	510.5	510.5
16.5°	510.0	507.0	507.6	509.0	509.6	509.7
17°	509.0	505.9	506.4	507.9	508.6	508.8
17.5°	507.9	504.6	505.2	506.7	507.5	507.8
18°	506.7	503.3	503.9	505.3	506.3	506.8
18.5°	505.3	502.1	502.6	503.9	504.9	505.7
19°	504.0	500.6	501.2	502.4	503.6	504.5
19.5°	502.6	499.0	499.6	500.7	502.1	503.3
20°	501.0	497.5	498.0	499.0	500.4	502.1
20.5°	499.3	495.7	496.3	497.2	498.7	500.6
21°	497.5	493.9	494.4	495.1	497.0	499.1

TEST NUMBER: P775881

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	491.5	487.7	488.1	488.4	490.6	494.0
23°	489.2	485.3	485.7	485.8	488.3	492.1
23.5°	486.7	482.9	483.2	483.3	485.7	489.9
24°	484.1	480.2	480.6	480.5	483.1	487.7
24.5°	481.4	477.4	477.8	477.6	480.3	485.3
25°	478.4	474.4	474.8	474.4	477.4	482.7
25.5°	475.3	471.3	471.6	471.3	474.2	480.0
26°	472.0	468.0	468.2	467.8	471.1	477.1
26.5°	468.5	464.4	464.7	464.3	467.6	474.0
27°	464.8	460.5	461.1	460.5	464.0	470.6
27.5°	460.8	456.6	457.2	456.7	460.1	467.1
28°	456.7	452.4	453.1	452.4	456.2	463.3
28.5°	452.3	447.9	448.8	448.3	451.9	459.3
29°	447.8	443.3	444.3	443.7	447.5	455.0
29.5°	443.0	438.4	439.7	439.2	443.1	450.7
30°	437.9	433.4	434.7	434.3	438.4	446.1
30.5°	432.4	427.8	429.7	429.5	433.5	441.3
31°	426.4	422.1	424.2	424.1	428.3	435.9
31.5°	420.0	415.6	418.4	418.6	422.7	430.4
32°	413.3	409.0	412.0	412.3	416.6	424.6
32.5°	405.9	401.7	405.3	405.7	410.0	418.4
33°	398.5	394.0	398.0	398.6	403.1	411.6
33.5°	390.1	385.7	390.7	391.6	396.1	404.5
34°	381.6	376.6	382.9	383.9	388.6	396.7
34.5°	372.2	366.8	374.4	375.4	380.4	388.4
35°	361.9	355.9	365.2	366.1	371.5	379.5
35.5°	350.2	344.0	354.7	356.1	361.7	370.3
36°	338.0	330.7	343.0	344.8	350.9	360.2
36.5°	324.2	316.9	329.8	332.4	338.8	348.4
37°	310.3	303.4	315.4	318.8	325.3	334.8
37.5°	295.7	290.3	299.9	304.7	310.7	320.2
38°	282.0	276.9	284.2	289.6	295.9	305.7
38.5°	267.8	263.5	269.3	274.5	280.9	290.8
39°	254.1	247.9	254.9	258.4	265.7	276.5
39.5°	240.0	232.2	241.1	243.0	250.3	262.5
40°	225.5	216.2	226.8	227.5	234.5	248.4
40.5°	210.4	202.5	211.7	211.9	219.5	233.8
41°	194.9	188.8	197.0	196.3	204.9	219.0
41.5°	179.3	175.5	182.5	180.8	190.3	204.6
42°	164.3	161.5	168.4	166.2	175.8	190.1
42.5°	149.2	147.5	154.7	152.4	161.0	176.1
43°	134.4	133.6	141.4	138.9	146.9	162.7
43.5°	120.2	119.8	128.3	125.9	133.3	148.9



TEST NUMBER: P775881

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	83.6	82.5	90.7	90.4	96.3	109.2
45.5°	71.3	70.7	79.3	80.2	85.2	96.3
46°	59.1	59.1	68.8	70.6	75.0	84.6
46.5°	49.6	48.8	59.1	61.5	65.5	73.1
47°	41.3	39.3	50.0	53.2	56.5	62.1
47.5°	33.9	33.9	41.6	45.3	48.4	51.9
48°	27.6	28.6	34.2	38.5	40.9	43.0
48.5°	21.9	23.3	29.0	33.2	34.1	34.9
49°	17.3	18.0	23.9	28.0	29.0	30.0
49.5°	14.4	12.7	18.9	22.9	23.9	25.1
50°	11.5	9.6	13.8	17.7	18.7	20.2
50.5°	8.7	7.0	10.2	12.4	13.7	15.2
51°	5.8	4.9	7.4	9.1	10.0	10.4
51.5°	3.0	3.1	5.0	6.1	6.9	7.6
52°	1.9	2.4	3.2	3.8	4.5	5.2
52.5°	1.4	1.9	2.6	3.1	3.8	3.3
53°	1.2	1.5	2.0	2.3	3.1	2.8
53.5°	0.9	1.0	1.5	1.7	2.3	2.1
54°	0.7	0.8	1.0	1.0	1.6	1.5
54.5°	0.6	0.6	0.8	0.8	0.9	1.0
55°	0.5	0.5	0.6	0.6	0.7	0.8
55.5°	0.4	0.4	0.5	0.5	0.6	0.6
56°	0.4	0.4	0.4	0.4	0.5	0.5
56.5°	0.3	0.3	0.4	0.4	0.4	0.4
57°	0.3	0.3	0.3	0.3	0.3	0.4
57.5°	0.3	0.3	0.3	0.3	0.3	0.3
58°	0.2	0.2	0.3	0.3	0.3	0.3
58.5°	0.2	0.2	0.2	0.3	0.3	0.3
59°	0.2	0.2	0.2	0.2	0.2	0.2
59.5°	0.2	0.2	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2
60.5°	0.2	0.2	0.2	0.2	0.2	0.2
61°	0.2	0.2	0.2	0.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.2	0.2	0.2
62°	0.1	0.2	0.2	0.2	0.2	0.2
62.5°	0.1	0.1	0.2	0.2	0.2	0.2
63°	0.1	0.1	0.1	0.1	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: P775881

CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**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°	0.0	0.1	0.1	0.1	0.1	0.1
72°	0.0	0.0	0.1	0.1	0.1	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	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
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: P775881  
CATALOG NUMBER: HCDJBL510CSD-HCD8TRMB-1000lm-3000K

**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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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°	497.6	501.6	507.3	512.7	516.6	518.7	519.5	517.5	513.5	508.0	501.8
22°	495.9	500.0	505.7	511.2	515.3	517.3	518.0	516.0	511.8	506.2	499.8



44°	135.3	150.2	163.6	175.1	183.5	177.7	176.8	169.2	154.4	134.4	118.0
44.5°	122.0	135.9	147.9	160.2	169.2	163.1	162.1	154.7	140.9	121.8	106.2



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°	495.6	492.0	492.5	493.1	494.9	497.6
22°	493.6	489.9	490.3	490.8	492.9	495.9



44°	108.0	106.7	115.5	113.2	120.2	135.3
44.5°	95.8	94.5	102.8	101.4	108.0	122.0

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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)