

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: P775782

Luminaire Tested: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B001-HCD6TRMB)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD6TRMB-1000lm-3500K  
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

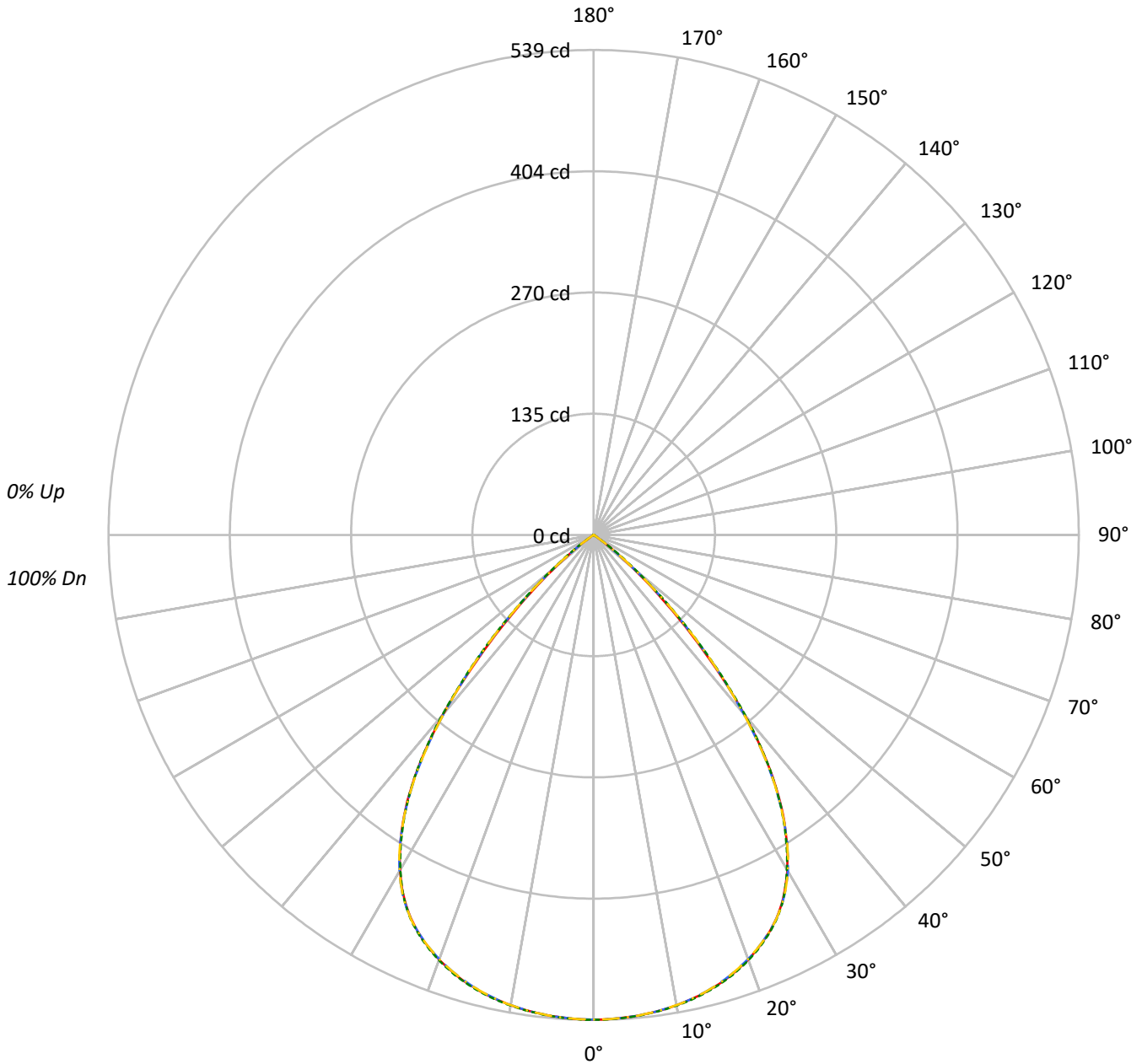
Lumens per Lamp: N/A  
Luminaire Lumens: 766.1 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	79	75	72	70					70			
5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59					59			
7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50					50			
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	90°	180°	270°
0°	29532	29532	29532	29532
5°	29534	29545	29534	29545
10°	29542	29564	29542	29564
15°	29506	29540	29506	29540
20°	29303	29338	29303	29338
25°	28744	28798	28744	28798
30°	27226	27188	27226	27188
35°	24139	24059	24139	24059
40°	18613	18771	18613	18771
45°	11125	11683	11125	11683
50°	4597	5288	4597	5288
55°	889	1051	889	1051
60°	66	66	66	66
65°	26	26	26	26
70°	16	16	16	16
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 11707 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	6.7
10°-20°	146.6	19.1
20°-30°	217.7	28.4
30°-40°	220.6	28.8
40°-50°	115.5	15.1
50°-60°	14.4	1.9
60°-70°	0.2	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°	415.3	54.2
0°-40°	635.9	83.0
0°-60°	765.8	100.0
0°-90°	766.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	539	539	539	539	539	
5°	537	537	537	537	537	51
15°	520	520	520	520	520	147
25°	475	476	475	476	475	218
35°	361	360	361	360	361	221
45°	144	151	144	151	144	113
55°	9	11	9	11	9	13
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°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7
0.5°	538.7	538.6	538.6	538.6	538.9	538.6	538.6	538.6	538.7	538.6	538.6
1°	538.6	538.6	538.5	538.5	538.9	538.5	538.5	538.6	538.6	538.6	538.5
1.5°	538.5	538.5	538.4	538.4	538.7	538.4	538.4	538.5	538.5	538.5	538.4
2°	538.4	538.3	538.3	538.3	538.5	538.3	538.3	538.3	538.4	538.3	538.3
2.5°	538.2	538.1	538.1	538.1	538.4	538.1	538.1	538.1	538.2	538.1	538.1
3°	537.9	537.9	537.9	537.9	538.2	537.9	537.9	537.9	537.9	537.9	537.9
3.5°	537.7	537.7	537.7	537.6	537.9	537.6	537.7	537.7	537.7	537.7	537.7
4°	537.4	537.4	537.4	537.4	537.6	537.4	537.4	537.4	537.4	537.4	537.4
4.5°	537.0	537.0	537.0	537.0	537.3	537.0	537.0	537.0	537.0	537.0	537.0
5°	536.7	536.7	536.7	536.7	536.9	536.7	536.7	536.7	536.7	536.7	536.7
5.5°	536.3	536.3	536.3	536.3	536.6	536.3	536.3	536.3	536.3	536.3	536.3
6°	535.8	535.7	535.7	535.7	536.1	535.7	535.7	535.7	535.8	535.7	535.7
6.5°	535.3	535.2	535.3	535.3	535.6	535.3	535.3	535.2	535.3	535.2	535.3
7°	534.8	534.7	534.7	534.8	535.0	534.8	534.7	534.7	534.8	534.7	534.7
7.5°	534.2	534.2	534.2	534.2	534.5	534.2	534.2	534.2	534.2	534.2	534.2
8°	533.6	533.6	533.6	533.6	533.9	533.6	533.6	533.6	533.6	533.6	533.6
8.5°	533.0	532.8	532.8	533.0	533.3	533.0	532.8	532.8	533.0	532.8	532.8
9°	532.2	532.2	532.2	532.2	532.5	532.2	532.2	532.2	532.2	532.2	532.2
9.5°	531.5	531.4	531.4	531.5	531.8	531.5	531.4	531.4	531.5	531.4	531.4
10°	530.7	530.7	530.6	530.7	531.1	530.7	530.6	530.7	530.7	530.7	530.6
10.5°	529.9	529.7	529.7	529.8	530.3	529.8	529.7	529.7	529.9	529.7	529.7
11°	529.0	528.9	528.8	529.0	529.4	529.0	528.8	528.9	529.0	528.9	528.8
11.5°	528.1	527.9	527.9	528.1	528.5	528.1	527.9	527.9	528.1	527.9	527.9
12°	527.0	526.9	526.8	527.0	527.6	527.0	526.8	526.9	527.0	526.9	526.8
12.5°	526.0	525.8	525.7	526.0	526.5	526.0	525.7	525.8	526.0	525.8	525.7
13°	525.0	524.8	524.6	524.9	525.5	524.9	524.6	524.8	525.0	524.8	524.6
13.5°	523.7	523.5	523.4	523.7	524.4	523.7	523.4	523.5	523.7	523.5	523.4
14°	522.6	522.3	522.1	522.5	523.1	522.5	522.1	522.3	522.6	522.3	522.1
14.5°	521.2	521.0	520.8	521.1	521.9	521.1	520.8	521.0	521.2	521.0	520.8
15°	519.9	519.6	519.4	519.8	520.5	519.8	519.4	519.6	519.9	519.6	519.4
15.5°	518.5	518.1	517.9	518.4	519.1	518.4	517.9	518.1	518.5	518.1	517.9
16°	517.0	516.7	516.4	516.9	517.6	516.9	516.4	516.7	517.0	516.7	516.4
16.5°	515.5	515.0	514.8	515.3	516.1	515.3	514.8	515.0	515.5	515.0	514.8
17°	513.8	513.4	513.2	513.7	514.4	513.7	513.2	513.4	513.8	513.4	513.2
17.5°	512.0	511.7	511.4	511.9	512.8	511.9	511.4	511.7	512.0	511.7	511.4
18°	510.3	509.9	509.5	510.2	510.9	510.2	509.5	509.9	510.3	509.9	509.5
18.5°	508.3	508.0	507.7	508.3	509.0	508.3	507.7	508.0	508.3	508.0	507.7
19°	506.4	506.0	505.7	506.3	507.1	506.3	505.7	506.0	506.4	506.0	505.7
19.5°	504.4	504.1	503.6	504.3	505.1	504.3	503.6	504.1	504.4	504.1	503.6
20°	502.3	501.9	501.6	502.2	502.9	502.2	501.6	501.9	502.3	501.9	501.6
20.5°	500.0	499.7	499.4	500.0	500.7	500.0	499.4	499.7	500.0	499.7	499.4
21°	497.7	497.4	497.1	497.7	498.4	497.7	497.1	497.4	497.7	497.4	497.1



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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°	490.2	489.9	489.8	490.3	490.9	490.3	489.8	489.9	490.2	489.9	489.8
23°	487.4	487.2	487.1	487.7	488.1	487.7	487.1	487.2	487.4	487.2	487.1
23.5°	484.5	484.4	484.4	484.9	485.3	484.9	484.4	484.4	484.5	484.4	484.4
24°	481.6	481.5	481.6	481.9	482.4	481.9	481.6	481.5	481.6	481.5	481.6
24.5°	478.5	478.5	478.6	478.9	479.3	478.9	478.6	478.5	478.5	478.5	478.6
25°	475.2	475.3	475.5	475.7	476.1	475.7	475.5	475.3	475.2	475.3	475.5
25.5°	471.8	471.9	472.2	472.2	472.6	472.2	472.2	471.9	471.8	471.9	472.2
26°	468.0	468.2	468.5	468.5	469.0	468.5	468.5	468.2	468.0	468.2	468.5
26.5°	464.2	464.5	464.9	464.7	464.9	464.7	464.9	464.5	464.2	464.5	464.9
27°	460.1	460.5	460.9	460.6	460.8	460.6	460.9	460.5	460.1	460.5	460.9
27.5°	455.7	456.2	456.6	456.2	456.2	456.2	456.6	456.2	455.7	456.2	456.6
28°	451.0	451.7	452.2	451.6	451.3	451.6	452.2	451.7	451.0	451.7	452.2
28.5°	446.2	446.9	447.4	446.7	446.2	446.7	447.4	446.9	446.2	446.9	447.4
29°	441.1	441.8	442.3	441.6	440.9	441.6	442.3	441.8	441.1	441.8	442.3
29.5°	435.7	436.5	437.1	436.2	435.3	436.2	437.1	436.5	435.7	436.5	437.1
30°	430.1	430.8	431.4	430.4	429.5	430.4	431.4	430.8	430.1	430.8	431.4
30.5°	424.3	425.0	425.5	424.4	423.4	424.4	425.5	425.0	424.3	425.0	425.5
31°	418.2	418.7	419.3	418.3	417.2	418.3	419.3	418.7	418.2	418.7	419.3
31.5°	411.9	412.2	412.7	411.7	410.7	411.7	412.7	412.2	411.9	412.2	412.7
32°	405.4	405.4	405.9	404.9	404.0	404.9	405.9	405.4	405.4	405.4	405.9
32.5°	398.5	398.4	398.8	397.7	397.1	397.7	398.8	398.4	398.5	398.4	398.8
33°	391.5	391.1	391.4	390.4	390.2	390.4	391.4	391.1	391.5	391.1	391.4
33.5°	384.4	383.6	383.7	382.8	382.7	382.8	383.7	383.6	384.4	383.6	383.7
34°	376.7	375.9	375.9	374.8	375.4	374.8	375.9	375.9	376.7	375.9	375.9
34.5°	368.8	367.9	367.7	366.7	367.6	366.7	367.7	367.9	368.8	367.9	367.7
35°	360.7	359.6	359.2	358.5	359.5	358.5	359.2	359.6	360.7	359.6	359.2
35.5°	352.1	351.2	350.5	350.1	351.2	350.1	350.5	351.2	352.1	351.2	350.5
36°	343.2	342.5	341.5	341.3	342.6	341.3	341.5	342.5	343.2	342.5	341.5
36.5°	333.9	333.4	332.2	332.3	333.8	332.3	332.2	333.4	333.9	333.4	332.2
37°	324.3	324.0	322.5	323.1	324.5	323.1	322.5	324.0	324.3	324.0	322.5
37.5°	314.4	314.3	312.5	313.4	314.8	313.4	312.5	314.3	314.4	314.3	312.5
38°	304.2	304.1	302.1	303.5	304.8	303.5	302.1	304.1	304.2	304.1	302.1
38.5°	293.7	293.6	291.4	293.2	294.6	293.2	291.4	293.6	293.7	293.6	291.4
39°	282.9	282.6	280.5	282.9	284.1	282.9	280.5	282.6	282.9	282.6	280.5
39.5°	271.8	271.3	269.4	272.1	273.4	272.1	269.4	271.3	271.8	271.3	269.4
40°	260.1	259.7	258.1	260.9	262.3	260.9	258.1	259.7	260.1	259.7	258.1
40.5°	248.5	248.0	247.0	249.6	250.8	249.6	247.0	248.0	248.5	248.0	247.0
41°	236.6	236.3	236.1	238.4	239.4	238.4	236.1	236.3	236.6	236.3	236.1
41.5°	224.8	224.5	225.2	227.1	228.0	227.1	225.2	224.5	224.8	224.5	225.2
42°	212.8	212.9	214.4	215.7	216.8	215.7	214.4	212.9	212.8	212.9	214.4
42.5°	200.9	201.4	203.6	204.6	205.6	204.6	203.6	201.4	200.9	201.4	203.6
43°	189.0	190.0	192.7	193.6	194.4	193.6	192.7	190.0	189.0	190.0	192.7
43.5°	177.3	178.7	181.8	182.8	183.2	182.8	181.8	178.7	177.3	178.7	181.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	143.5	145.6	149.7	151.0	150.7	151.0	149.7	145.6	143.5	145.6	149.7
45.5°	132.8	135.0	139.4	141.0	140.2	141.0	139.4	135.0	132.8	135.0	139.4
46°	122.4	125.0	129.5	131.2	130.0	131.2	129.5	125.0	122.4	125.0	129.5
46.5°	112.9	115.1	119.7	121.3	120.1	121.3	119.7	115.1	112.9	115.1	119.7
47°	103.3	105.5	110.0	111.7	110.5	111.7	110.0	105.5	103.3	105.5	110.0
47.5°	94.1	96.2	100.3	102.3	101.4	102.3	100.3	96.2	94.1	96.2	100.3
48°	85.0	87.2	91.2	93.4	92.8	93.4	91.2	87.2	85.0	87.2	91.2
48.5°	76.3	78.7	82.5	84.9	84.4	84.9	82.5	78.7	76.3	78.7	82.5
49°	68.3	70.6	74.1	76.7	76.8	76.7	74.1	70.6	68.3	70.6	74.1
49.5°	61.0	62.7	66.1	69.0	69.4	69.0	66.1	62.7	61.0	62.7	66.1
50°	53.9	55.5	58.3	61.4	62.0	61.4	58.3	55.5	53.9	55.5	58.3
50.5°	47.3	48.6	50.9	54.2	54.9	54.2	50.9	48.6	47.3	48.6	50.9
51°	41.2	42.4	44.6	47.4	48.1	47.4	44.6	42.4	41.2	42.4	44.6
51.5°	35.7	36.7	38.6	41.1	42.2	41.1	38.6	36.7	35.7	36.7	38.6
52°	30.5	31.4	33.0	35.2	36.4	35.2	33.0	31.4	30.5	31.4	33.0
52.5°	26.2	26.4	27.6	29.7	30.9	29.7	27.6	26.4	26.2	26.4	27.6
53°	22.2	22.1	23.1	25.1	25.9	25.1	23.1	22.1	22.2	22.1	23.1
53.5°	18.2	18.4	19.3	21.0	21.3	21.0	19.3	18.4	18.2	18.4	19.3
54°	14.8	15.1	15.6	17.2	17.2	17.2	15.6	15.1	14.8	15.1	15.6
54.5°	11.9	12.1	12.3	13.7	13.6	13.7	12.3	12.1	11.9	12.1	12.3
55°	9.3	9.2	9.4	10.6	11.0	10.6	9.4	9.2	9.3	9.2	9.4
55.5°	6.8	6.8	7.1	7.9	8.5	7.9	7.1	6.8	6.8	6.8	7.1
56°	4.6	4.9	5.4	6.0	6.5	6.0	5.4	4.9	4.6	4.9	5.4
56.5°	3.1	3.2	3.9	4.2	4.7	4.2	3.9	3.2	3.1	3.2	3.9
57°	2.5	2.3	2.6	2.8	2.8	2.8	2.6	2.3	2.5	2.3	2.6
57.5°	2.0	1.8	1.9	2.1	1.9	2.1	1.9	1.8	2.0	1.8	1.9
58°	1.6	1.4	1.6	1.7	1.3	1.7	1.6	1.4	1.6	1.4	1.6
58.5°	1.0	1.1	1.2	1.3	1.1	1.3	1.2	1.1	1.0	1.1	1.2
59°	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9
59.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
60.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4
61.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2





TEST NUMBER: P775782  
 CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**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°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
73.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
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: P775782

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**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: P775782

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	538.7	538.7	538.7	538.7	538.7	538.7
0.5°	538.6	538.9	538.6	538.6	538.6	538.7
1°	538.5	538.9	538.5	538.5	538.6	538.6
1.5°	538.4	538.7	538.4	538.4	538.5	538.5
2°	538.3	538.5	538.3	538.3	538.3	538.4
2.5°	538.1	538.4	538.1	538.1	538.1	538.2
3°	537.9	538.2	537.9	537.9	537.9	537.9
3.5°	537.6	537.9	537.6	537.7	537.7	537.7
4°	537.4	537.6	537.4	537.4	537.4	537.4
4.5°	537.0	537.3	537.0	537.0	537.0	537.0
5°	536.7	536.9	536.7	536.7	536.7	536.7
5.5°	536.3	536.6	536.3	536.3	536.3	536.3
6°	535.7	536.1	535.7	535.7	535.7	535.8
6.5°	535.3	535.6	535.3	535.3	535.2	535.3
7°	534.8	535.0	534.8	534.7	534.7	534.8
7.5°	534.2	534.5	534.2	534.2	534.2	534.2
8°	533.6	533.9	533.6	533.6	533.6	533.6
8.5°	533.0	533.3	533.0	532.8	532.8	533.0
9°	532.2	532.5	532.2	532.2	532.2	532.2
9.5°	531.5	531.8	531.5	531.4	531.4	531.5
10°	530.7	531.1	530.7	530.6	530.7	530.7
10.5°	529.8	530.3	529.8	529.7	529.7	529.9
11°	529.0	529.4	529.0	528.8	528.9	529.0
11.5°	528.1	528.5	528.1	527.9	527.9	528.1
12°	527.0	527.6	527.0	526.8	526.9	527.0
12.5°	526.0	526.5	526.0	525.7	525.8	526.0
13°	524.9	525.5	524.9	524.6	524.8	525.0
13.5°	523.7	524.4	523.7	523.4	523.5	523.7
14°	522.5	523.1	522.5	522.1	522.3	522.6
14.5°	521.1	521.9	521.1	520.8	521.0	521.2
15°	519.8	520.5	519.8	519.4	519.6	519.9
15.5°	518.4	519.1	518.4	517.9	518.1	518.5
16°	516.9	517.6	516.9	516.4	516.7	517.0
16.5°	515.3	516.1	515.3	514.8	515.0	515.5
17°	513.7	514.4	513.7	513.2	513.4	513.8
17.5°	511.9	512.8	511.9	511.4	511.7	512.0
18°	510.2	510.9	510.2	509.5	509.9	510.3
18.5°	508.3	509.0	508.3	507.7	508.0	508.3
19°	506.3	507.1	506.3	505.7	506.0	506.4
19.5°	504.3	505.1	504.3	503.6	504.1	504.4
20°	502.2	502.9	502.2	501.6	501.9	502.3
20.5°	500.0	500.7	500.0	499.4	499.7	500.0
21°	497.7	498.4	497.7	497.1	497.4	497.7



TEST NUMBER: P775782

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	490.3	490.9	490.3	489.8	489.9	490.2
23°	487.7	488.1	487.7	487.1	487.2	487.4
23.5°	484.9	485.3	484.9	484.4	484.4	484.5
24°	481.9	482.4	481.9	481.6	481.5	481.6
24.5°	478.9	479.3	478.9	478.6	478.5	478.5
25°	475.7	476.1	475.7	475.5	475.3	475.2
25.5°	472.2	472.6	472.2	472.2	471.9	471.8
26°	468.5	469.0	468.5	468.5	468.2	468.0
26.5°	464.7	464.9	464.7	464.9	464.5	464.2
27°	460.6	460.8	460.6	460.9	460.5	460.1
27.5°	456.2	456.2	456.2	456.6	456.2	455.7
28°	451.6	451.3	451.6	452.2	451.7	451.0
28.5°	446.7	446.2	446.7	447.4	446.9	446.2
29°	441.6	440.9	441.6	442.3	441.8	441.1
29.5°	436.2	435.3	436.2	437.1	436.5	435.7
30°	430.4	429.5	430.4	431.4	430.8	430.1
30.5°	424.4	423.4	424.4	425.5	425.0	424.3
31°	418.3	417.2	418.3	419.3	418.7	418.2
31.5°	411.7	410.7	411.7	412.7	412.2	411.9
32°	404.9	404.0	404.9	405.9	405.4	405.4
32.5°	397.7	397.1	397.7	398.8	398.4	398.5
33°	390.4	390.2	390.4	391.4	391.1	391.5
33.5°	382.8	382.7	382.8	383.7	383.6	384.4
34°	374.8	375.4	374.8	375.9	375.9	376.7
34.5°	366.7	367.6	366.7	367.7	367.9	368.8
35°	358.5	359.5	358.5	359.2	359.6	360.7
35.5°	350.1	351.2	350.1	350.5	351.2	352.1
36°	341.3	342.6	341.3	341.5	342.5	343.2
36.5°	332.3	333.8	332.3	332.2	333.4	333.9
37°	323.1	324.5	323.1	322.5	324.0	324.3
37.5°	313.4	314.8	313.4	312.5	314.3	314.4
38°	303.5	304.8	303.5	302.1	304.1	304.2
38.5°	293.2	294.6	293.2	291.4	293.6	293.7
39°	282.9	284.1	282.9	280.5	282.6	282.9
39.5°	272.1	273.4	272.1	269.4	271.3	271.8
40°	260.9	262.3	260.9	258.1	259.7	260.1
40.5°	249.6	250.8	249.6	247.0	248.0	248.5
41°	238.4	239.4	238.4	236.1	236.3	236.6
41.5°	227.1	228.0	227.1	225.2	224.5	224.8
42°	215.7	216.8	215.7	214.4	212.9	212.8
42.5°	204.6	205.6	204.6	203.6	201.4	200.9
43°	193.6	194.4	193.6	192.7	190.0	189.0
43.5°	182.8	183.2	182.8	181.8	178.7	177.3



TEST NUMBER: P775782

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	151.0	150.7	151.0	149.7	145.6	143.5
45.5°	141.0	140.2	141.0	139.4	135.0	132.8
46°	131.2	130.0	131.2	129.5	125.0	122.4
46.5°	121.3	120.1	121.3	119.7	115.1	112.9
47°	111.7	110.5	111.7	110.0	105.5	103.3
47.5°	102.3	101.4	102.3	100.3	96.2	94.1
48°	93.4	92.8	93.4	91.2	87.2	85.0
48.5°	84.9	84.4	84.9	82.5	78.7	76.3
49°	76.7	76.8	76.7	74.1	70.6	68.3
49.5°	69.0	69.4	69.0	66.1	62.7	61.0
50°	61.4	62.0	61.4	58.3	55.5	53.9
50.5°	54.2	54.9	54.2	50.9	48.6	47.3
51°	47.4	48.1	47.4	44.6	42.4	41.2
51.5°	41.1	42.2	41.1	38.6	36.7	35.7
52°	35.2	36.4	35.2	33.0	31.4	30.5
52.5°	29.7	30.9	29.7	27.6	26.4	26.2
53°	25.1	25.9	25.1	23.1	22.1	22.2
53.5°	21.0	21.3	21.0	19.3	18.4	18.2
54°	17.2	17.2	17.2	15.6	15.1	14.8
54.5°	13.7	13.6	13.7	12.3	12.1	11.9
55°	10.6	11.0	10.6	9.4	9.2	9.3
55.5°	7.9	8.5	7.9	7.1	6.8	6.8
56°	6.0	6.5	6.0	5.4	4.9	4.6
56.5°	4.2	4.7	4.2	3.9	3.2	3.1
57°	2.8	2.8	2.8	2.6	2.3	2.5
57.5°	2.1	1.9	2.1	1.9	1.8	2.0
58°	1.7	1.3	1.7	1.6	1.4	1.6
58.5°	1.3	1.1	1.3	1.2	1.1	1.0
59°	1.0	0.9	1.0	0.9	0.9	0.9
59.5°	0.7	0.7	0.7	0.7	0.7	0.7
60°	0.6	0.6	0.6	0.6	0.6	0.6
60.5°	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.4	0.5	0.4	0.4	0.4
61.5°	0.4	0.4	0.4	0.4	0.4	0.4
62°	0.4	0.4	0.4	0.4	0.4	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.2	0.3	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775782

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**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	0.0
73.5°	0.1	0.1	0.1	0.1	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: P775782

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-3500K

**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°	495.4	494.9	494.7	495.4	496.0	495.4	494.7	494.9	495.4	494.9	494.7
22°	492.8	492.6	492.3	492.9	493.4	492.9	492.3	492.6	492.8	492.6	492.3



44°	165.7	167.5	171.0	172.0	172.2	172.0	171.0	167.5	165.7	167.5	171.0
44.5°	154.5	156.5	160.3	161.4	161.3	161.4	160.3	156.5	154.5	156.5	160.3



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2



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°	495.4	496.0	495.4	494.7	494.9	495.4
22°	492.9	493.4	492.9	492.3	492.6	492.8



44°	172.0	172.2	172.0	171.0	167.5	165.7
44.5°	161.4	161.3	161.4	160.3	156.5	154.5

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66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	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)