

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: P775784

Luminaire Tested: HCDJBL510CSD-HCD6TRMB-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775784
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-5000K
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 788.3 lumens
Efficiency: N/A
Efficacy: 78.8 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

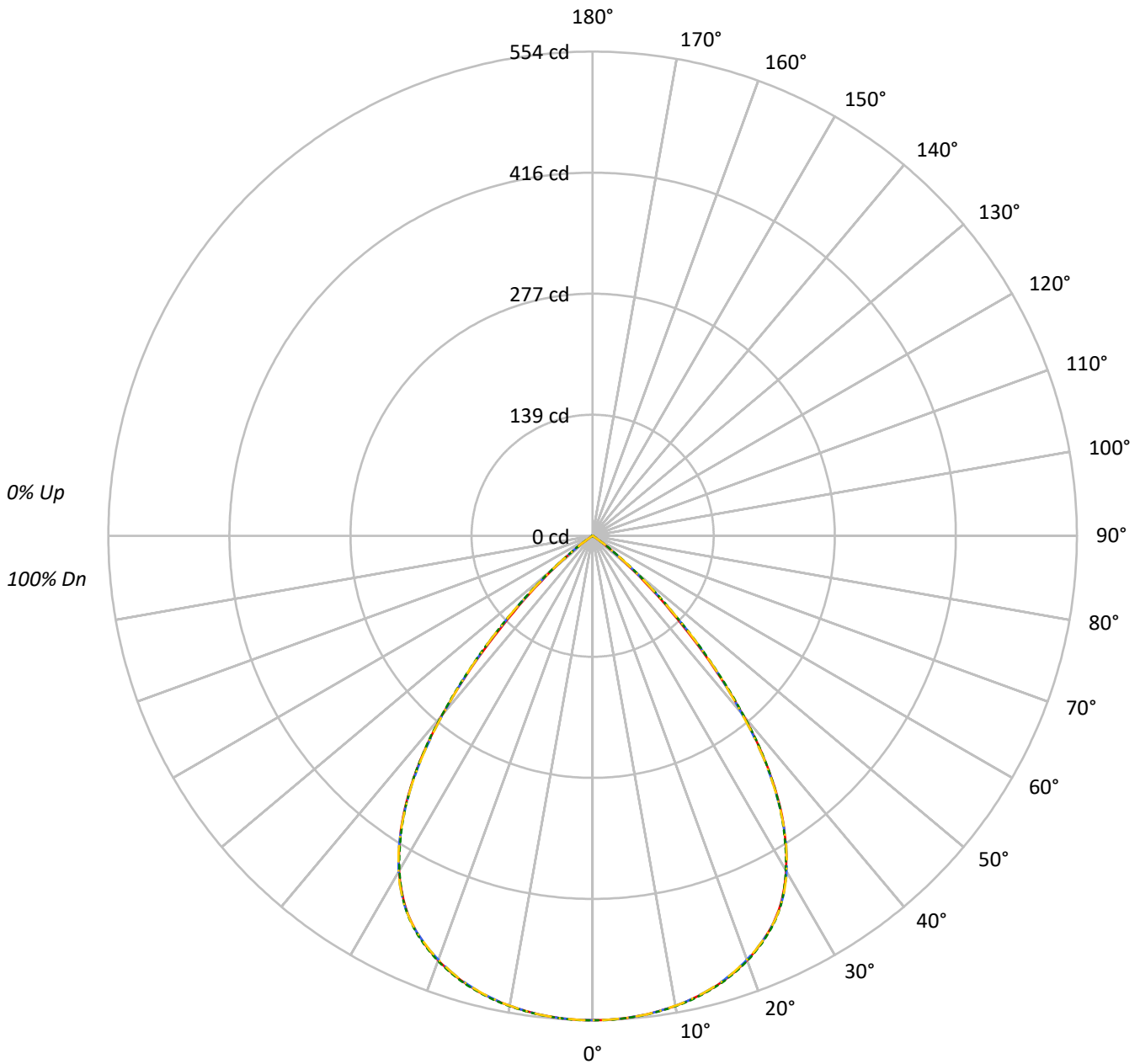
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30392	30392	30392	30392
5°	30393	30404	30393	30404
10°	30399	30421	30399	30421
15°	30363	30397	30363	30397
20°	30155	30190	30155	30190
25°	29578	29633	29578	29633
30°	28017	27979	28017	27979
35°	24835	24755	24835	24755
40°	19157	19315	19157	19315
45°	11451	12017	11451	12017
50°	4733	5441	4733	5441
55°	918	1080	918	1080
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: 12048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	6.7
10°-20°	150.8	19.1
20°-30°	224.0	28.4
30°-40°	227.0	28.8
40°-50°	118.8	15.1
50°-60°	14.8	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°	427.3	54.2
0°-40°	654.4	83.0
0°-60°	788.0	100.0
0°-90°	788.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	554	554	554	554	554	
5°	552	552	552	552	552	53
15°	535	536	535	536	535	151
25°	489	490	489	490	489	224
35°	371	370	371	370	371	227
45°	148	155	148	155	148	116
55°	10	11	10	11	10	14
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°	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4
0.5°	554.4	554.3	554.3	554.3	554.5	554.3	554.3	554.3	554.4	554.3	554.3
1°	554.3	554.3	554.2	554.2	554.5	554.2	554.2	554.3	554.3	554.3	554.2
1.5°	554.2	554.2	554.1	554.1	554.4	554.1	554.1	554.2	554.2	554.2	554.1
2°	554.1	554.0	554.0	554.0	554.2	554.0	554.0	554.0	554.1	554.0	554.0
2.5°	553.9	553.7	553.7	553.7	554.1	553.7	553.7	553.7	553.9	553.7	553.7
3°	553.5	553.5	553.5	553.5	553.9	553.5	553.5	553.5	553.5	553.5	553.5
3.5°	553.3	553.3	553.3	553.2	553.5	553.2	553.3	553.3	553.3	553.3	553.3
4°	553.0	553.0	553.0	553.0	553.2	553.0	553.0	553.0	553.0	553.0	553.0
4.5°	552.6	552.6	552.6	552.6	552.9	552.6	552.6	552.6	552.6	552.6	552.6
5°	552.3	552.3	552.3	552.3	552.5	552.3	552.3	552.3	552.3	552.3	552.3
5.5°	551.8	551.8	551.8	551.8	552.2	551.8	551.8	551.8	551.8	551.8	551.8
6°	551.4	551.3	551.3	551.3	551.6	551.3	551.3	551.3	551.4	551.3	551.3
6.5°	550.9	550.8	550.9	550.9	551.2	550.9	550.9	550.8	550.9	550.8	550.9
7°	550.3	550.2	550.2	550.3	550.6	550.3	550.2	550.2	550.3	550.2	550.2
7.5°	549.7	549.7	549.7	549.7	550.0	549.7	549.7	549.7	549.7	549.7	549.7
8°	549.1	549.1	549.1	549.1	549.4	549.1	549.1	549.1	549.1	549.1	549.1
8.5°	548.4	548.3	548.3	548.4	548.7	548.4	548.3	548.3	548.4	548.3	548.3
9°	547.7	547.7	547.7	547.7	548.0	547.7	547.7	547.7	547.7	547.7	547.7
9.5°	546.9	546.8	546.8	546.9	547.2	546.9	546.8	546.8	546.9	546.8	546.8
10°	546.1	546.1	546.0	546.1	546.5	546.1	546.0	546.1	546.1	546.1	546.0
10.5°	545.3	545.1	545.1	545.2	545.7	545.2	545.1	545.1	545.3	545.1	545.1
11°	544.4	544.3	544.2	544.4	544.8	544.4	544.2	544.3	544.4	544.3	544.2
11.5°	543.4	543.2	543.2	543.4	543.8	543.4	543.2	543.2	543.4	543.2	543.2
12°	542.3	542.2	542.1	542.3	542.9	542.3	542.1	542.2	542.3	542.2	542.1
12.5°	541.3	541.1	541.0	541.3	541.8	541.3	541.0	541.1	541.3	541.1	541.0
13°	540.2	540.0	539.8	540.1	540.7	540.1	539.8	540.0	540.2	540.0	539.8
13.5°	538.9	538.7	538.6	538.9	539.6	538.9	538.6	538.7	538.9	538.7	538.6
14°	537.8	537.4	537.2	537.7	538.3	537.7	537.2	537.4	537.8	537.4	537.2
14.5°	536.4	536.2	536.0	536.3	537.0	536.3	536.0	536.2	536.4	536.2	536.0
15°	535.0	534.7	534.5	534.9	535.6	534.9	534.5	534.7	535.0	534.7	534.5
15.5°	533.5	533.2	533.0	533.4	534.1	533.4	533.0	533.2	533.5	533.2	533.0
16°	532.0	531.7	531.4	531.9	532.7	531.9	531.4	531.7	532.0	531.7	531.4
16.5°	530.4	530.0	529.8	530.3	531.1	530.3	529.8	530.0	530.4	530.0	529.8
17°	528.7	528.3	528.1	528.6	529.3	528.6	528.1	528.3	528.7	528.3	528.1
17.5°	526.9	526.6	526.3	526.8	527.6	526.8	526.3	526.6	526.9	526.6	526.3
18°	525.1	524.7	524.3	525.0	525.7	525.0	524.3	524.7	525.1	524.7	524.3
18.5°	523.1	522.7	522.4	523.1	523.8	523.1	522.4	522.7	523.1	522.7	522.4
19°	521.1	520.7	520.4	521.0	521.8	521.0	520.4	520.7	521.1	520.7	520.4
19.5°	519.0	518.7	518.3	518.9	519.8	518.9	518.3	518.7	519.0	518.7	518.3
20°	516.9	516.5	516.1	516.8	517.5	516.8	516.1	516.5	516.9	516.5	516.1
20.5°	514.5	514.2	513.9	514.5	515.3	514.5	513.9	514.2	514.5	514.2	513.9
21°	512.2	511.9	511.6	512.2	512.8	512.2	511.6	511.9	512.2	511.9	511.6



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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°	504.4	504.1	504.0	504.5	505.2	504.5	504.0	504.1	504.4	504.1	504.0
23°	501.5	501.3	501.2	501.9	502.3	501.9	501.2	501.3	501.5	501.3	501.2
23.5°	498.6	498.4	498.4	499.0	499.4	499.0	498.4	498.4	498.6	498.4	498.4
24°	495.6	495.5	495.6	495.9	496.4	495.9	495.6	495.5	495.6	495.5	495.6
24.5°	492.4	492.4	492.5	492.8	493.2	492.8	492.5	492.4	492.4	492.4	492.5
25°	489.0	489.1	489.3	489.5	489.9	489.5	489.3	489.1	489.0	489.1	489.3
25.5°	485.4	485.6	485.9	485.9	486.3	485.9	485.9	485.6	485.4	485.6	485.9
26°	481.6	481.8	482.1	482.1	482.6	482.1	482.1	481.8	481.6	481.8	482.1
26.5°	477.7	478.0	478.4	478.2	478.4	478.2	478.4	478.0	477.7	478.0	478.4
27°	473.4	473.8	474.3	473.9	474.2	473.9	474.3	473.8	473.4	473.8	474.3
27.5°	468.9	469.5	469.9	469.5	469.5	469.5	469.9	469.5	468.9	469.5	469.9
28°	464.1	464.8	465.3	464.7	464.4	464.7	465.3	464.8	464.1	464.8	465.3
28.5°	459.1	459.9	460.4	459.7	459.1	459.7	460.4	459.9	459.1	459.9	460.4
29°	453.9	454.7	455.2	454.4	453.7	454.4	455.2	454.7	453.9	454.7	455.2
29.5°	448.4	449.2	449.8	448.9	447.9	448.9	449.8	449.2	448.4	449.2	449.8
30°	442.6	443.3	443.9	442.9	442.0	442.9	443.9	443.3	442.6	443.3	443.9
30.5°	436.6	437.3	437.8	436.8	435.7	436.8	437.8	437.3	436.6	437.3	437.8
31°	430.4	430.9	431.4	430.5	429.3	430.5	431.4	430.9	430.4	430.9	431.4
31.5°	423.9	424.2	424.7	423.6	422.6	423.6	424.7	424.2	423.9	424.2	424.7
32°	417.1	417.1	417.7	416.6	415.8	416.6	417.7	417.1	417.1	417.1	417.7
32.5°	410.1	410.0	410.3	409.3	408.6	409.3	410.3	410.0	410.1	410.0	410.3
33°	402.9	402.4	402.8	401.7	401.5	401.7	402.8	402.4	402.9	402.4	402.8
33.5°	395.5	394.8	394.9	393.9	393.8	393.9	394.9	394.8	395.5	394.8	394.9
34°	387.6	386.8	386.8	385.7	386.2	385.7	386.8	386.8	387.6	386.8	386.8
34.5°	379.5	378.6	378.4	377.3	378.3	377.3	378.4	378.6	379.5	378.6	378.4
35°	371.1	370.1	369.6	368.9	369.9	368.9	369.6	370.1	371.1	370.1	369.6
35.5°	362.3	361.4	360.7	360.3	361.4	360.3	360.7	361.4	362.3	361.4	360.7
36°	353.1	352.5	351.4	351.2	352.6	351.2	351.4	352.5	353.1	352.5	351.4
36.5°	343.6	343.1	341.8	341.9	343.5	341.9	341.8	343.1	343.6	343.1	341.8
37°	333.7	333.4	331.9	332.4	333.9	332.4	331.9	333.4	333.7	333.4	331.9
37.5°	323.5	323.4	321.6	322.5	323.9	322.5	321.6	323.4	323.5	323.4	321.6
38°	313.0	312.9	310.9	312.3	313.7	312.3	310.9	312.9	313.0	312.9	310.9
38.5°	302.2	302.1	299.8	301.8	303.1	301.8	299.8	302.1	302.2	302.1	299.8
39°	291.1	290.8	288.6	291.1	292.4	291.1	288.6	290.8	291.1	290.8	288.6
39.5°	279.7	279.2	277.2	280.0	281.3	280.0	277.2	279.2	279.7	279.2	277.2
40°	267.7	267.2	265.6	268.5	269.9	268.5	265.6	267.2	267.7	267.2	265.6
40.5°	255.7	255.2	254.1	256.9	258.1	256.9	254.1	255.2	255.7	255.2	254.1
41°	243.5	243.2	242.9	245.3	246.3	245.3	242.9	243.2	243.5	243.2	242.9
41.5°	231.3	231.0	231.7	233.7	234.6	233.7	231.7	231.0	231.3	231.0	231.7
42°	219.0	219.1	220.7	221.9	223.1	221.9	220.7	219.1	219.0	219.1	220.7
42.5°	206.7	207.2	209.5	210.5	211.6	210.5	209.5	207.2	206.7	207.2	209.5
43°	194.5	195.5	198.3	199.3	200.0	199.3	198.3	195.5	194.5	195.5	198.3
43.5°	182.4	183.9	187.1	188.1	188.5	188.1	187.1	183.9	182.4	183.9	187.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	147.7	149.8	154.1	155.4	155.0	155.4	154.1	149.8	147.7	149.8	154.1
45.5°	136.7	138.9	143.4	145.1	144.3	145.1	143.4	138.9	136.7	138.9	143.4
46°	125.9	128.6	133.3	135.0	133.7	135.0	133.3	128.6	125.9	128.6	133.3
46.5°	116.1	118.5	123.2	124.8	123.6	124.8	123.2	118.5	116.1	118.5	123.2
47°	106.3	108.6	113.2	115.0	113.7	115.0	113.2	108.6	106.3	108.6	113.2
47.5°	96.9	99.0	103.2	105.3	104.3	105.3	103.2	99.0	96.9	99.0	103.2
48°	87.5	89.7	93.9	96.1	95.5	96.1	93.9	89.7	87.5	89.7	93.9
48.5°	78.5	81.0	84.9	87.4	86.8	87.4	84.9	81.0	78.5	81.0	84.9
49°	70.3	72.7	76.3	79.0	79.1	79.0	76.3	72.7	70.3	72.7	76.3
49.5°	62.8	64.6	68.0	71.0	71.4	71.0	68.0	64.6	62.8	64.6	68.0
50°	55.5	57.1	60.0	63.2	63.8	63.2	60.0	57.1	55.5	57.1	60.0
50.5°	48.7	50.0	52.4	55.7	56.5	55.7	52.4	50.0	48.7	50.0	52.4
51°	42.4	43.6	45.9	48.8	49.5	48.8	45.9	43.6	42.4	43.6	45.9
51.5°	36.8	37.7	39.7	42.3	43.5	42.3	39.7	37.7	36.8	37.7	39.7
52°	31.4	32.3	34.0	36.2	37.5	36.2	34.0	32.3	31.4	32.3	34.0
52.5°	27.0	27.2	28.4	30.6	31.8	30.6	28.4	27.2	27.0	27.2	28.4
53°	22.8	22.7	23.8	25.8	26.6	25.8	23.8	22.7	22.8	22.7	23.8
53.5°	18.8	19.0	19.8	21.6	21.9	21.6	19.8	19.0	18.8	19.0	19.8
54°	15.2	15.6	16.1	17.7	17.7	17.7	16.1	15.6	15.2	15.6	16.1
54.5°	12.3	12.5	12.7	14.1	14.0	14.1	12.7	12.5	12.3	12.5	12.7
55°	9.6	9.5	9.7	10.9	11.3	10.9	9.7	9.5	9.6	9.5	9.7
55.5°	7.0	7.0	7.4	8.1	8.7	8.1	7.4	7.0	7.0	7.0	7.4
56°	4.7	5.0	5.5	6.2	6.7	6.2	5.5	5.0	4.7	5.0	5.5
56.5°	3.2	3.3	4.0	4.4	4.8	4.4	4.0	3.3	3.2	3.3	4.0
57°	2.6	2.3	2.7	2.9	2.9	2.9	2.7	2.3	2.6	2.3	2.7
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	1.5	1.6	1.7	1.4	1.7	1.6	1.5	1.6	1.5	1.6
58.5°	1.1	1.2	1.3	1.4	1.2	1.4	1.3	1.2	1.1	1.2	1.3
59°	1.0	1.0	1.0	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0
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: P775784

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-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°	0.0	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: P775784

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-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: P775784

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	554.4	554.4	554.4	554.4	554.4	554.4
0.5°	554.3	554.5	554.3	554.3	554.3	554.4
1°	554.2	554.5	554.2	554.2	554.3	554.3
1.5°	554.1	554.4	554.1	554.1	554.2	554.2
2°	554.0	554.2	554.0	554.0	554.0	554.1
2.5°	553.7	554.1	553.7	553.7	553.7	553.9
3°	553.5	553.9	553.5	553.5	553.5	553.5
3.5°	553.2	553.5	553.2	553.3	553.3	553.3
4°	553.0	553.2	553.0	553.0	553.0	553.0
4.5°	552.6	552.9	552.6	552.6	552.6	552.6
5°	552.3	552.5	552.3	552.3	552.3	552.3
5.5°	551.8	552.2	551.8	551.8	551.8	551.8
6°	551.3	551.6	551.3	551.3	551.3	551.4
6.5°	550.9	551.2	550.9	550.9	550.8	550.9
7°	550.3	550.6	550.3	550.2	550.2	550.3
7.5°	549.7	550.0	549.7	549.7	549.7	549.7
8°	549.1	549.4	549.1	549.1	549.1	549.1
8.5°	548.4	548.7	548.4	548.3	548.3	548.4
9°	547.7	548.0	547.7	547.7	547.7	547.7
9.5°	546.9	547.2	546.9	546.8	546.8	546.9
10°	546.1	546.5	546.1	546.0	546.1	546.1
10.5°	545.2	545.7	545.2	545.1	545.1	545.3
11°	544.4	544.8	544.4	544.2	544.3	544.4
11.5°	543.4	543.8	543.4	543.2	543.2	543.4
12°	542.3	542.9	542.3	542.1	542.2	542.3
12.5°	541.3	541.8	541.3	541.0	541.1	541.3
13°	540.1	540.7	540.1	539.8	540.0	540.2
13.5°	538.9	539.6	538.9	538.6	538.7	538.9
14°	537.7	538.3	537.7	537.2	537.4	537.8
14.5°	536.3	537.0	536.3	536.0	536.2	536.4
15°	534.9	535.6	534.9	534.5	534.7	535.0
15.5°	533.4	534.1	533.4	533.0	533.2	533.5
16°	531.9	532.7	531.9	531.4	531.7	532.0
16.5°	530.3	531.1	530.3	529.8	530.0	530.4
17°	528.6	529.3	528.6	528.1	528.3	528.7
17.5°	526.8	527.6	526.8	526.3	526.6	526.9
18°	525.0	525.7	525.0	524.3	524.7	525.1
18.5°	523.1	523.8	523.1	522.4	522.7	523.1
19°	521.0	521.8	521.0	520.4	520.7	521.1
19.5°	518.9	519.8	518.9	518.3	518.7	519.0
20°	516.8	517.5	516.8	516.1	516.5	516.9
20.5°	514.5	515.3	514.5	513.9	514.2	514.5
21°	512.2	512.8	512.2	511.6	511.9	512.2



TEST NUMBER: P775784

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	504.5	505.2	504.5	504.0	504.1	504.4
23°	501.9	502.3	501.9	501.2	501.3	501.5
23.5°	499.0	499.4	499.0	498.4	498.4	498.6
24°	495.9	496.4	495.9	495.6	495.5	495.6
24.5°	492.8	493.2	492.8	492.5	492.4	492.4
25°	489.5	489.9	489.5	489.3	489.1	489.0
25.5°	485.9	486.3	485.9	485.9	485.6	485.4
26°	482.1	482.6	482.1	482.1	481.8	481.6
26.5°	478.2	478.4	478.2	478.4	478.0	477.7
27°	473.9	474.2	473.9	474.3	473.8	473.4
27.5°	469.5	469.5	469.5	469.9	469.5	468.9
28°	464.7	464.4	464.7	465.3	464.8	464.1
28.5°	459.7	459.1	459.7	460.4	459.9	459.1
29°	454.4	453.7	454.4	455.2	454.7	453.9
29.5°	448.9	447.9	448.9	449.8	449.2	448.4
30°	442.9	442.0	442.9	443.9	443.3	442.6
30.5°	436.8	435.7	436.8	437.8	437.3	436.6
31°	430.5	429.3	430.5	431.4	430.9	430.4
31.5°	423.6	422.6	423.6	424.7	424.2	423.9
32°	416.6	415.8	416.6	417.7	417.1	417.1
32.5°	409.3	408.6	409.3	410.3	410.0	410.1
33°	401.7	401.5	401.7	402.8	402.4	402.9
33.5°	393.9	393.8	393.9	394.9	394.8	395.5
34°	385.7	386.2	385.7	386.8	386.8	387.6
34.5°	377.3	378.3	377.3	378.4	378.6	379.5
35°	368.9	369.9	368.9	369.6	370.1	371.1
35.5°	360.3	361.4	360.3	360.7	361.4	362.3
36°	351.2	352.6	351.2	351.4	352.5	353.1
36.5°	341.9	343.5	341.9	341.8	343.1	343.6
37°	332.4	333.9	332.4	331.9	333.4	333.7
37.5°	322.5	323.9	322.5	321.6	323.4	323.5
38°	312.3	313.7	312.3	310.9	312.9	313.0
38.5°	301.8	303.1	301.8	299.8	302.1	302.2
39°	291.1	292.4	291.1	288.6	290.8	291.1
39.5°	280.0	281.3	280.0	277.2	279.2	279.7
40°	268.5	269.9	268.5	265.6	267.2	267.7
40.5°	256.9	258.1	256.9	254.1	255.2	255.7
41°	245.3	246.3	245.3	242.9	243.2	243.5
41.5°	233.7	234.6	233.7	231.7	231.0	231.3
42°	221.9	223.1	221.9	220.7	219.1	219.0
42.5°	210.5	211.6	210.5	209.5	207.2	206.7
43°	199.3	200.0	199.3	198.3	195.5	194.5
43.5°	188.1	188.5	188.1	187.1	183.9	182.4



TEST NUMBER: P775784

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	155.4	155.0	155.4	154.1	149.8	147.7
45.5°	145.1	144.3	145.1	143.4	138.9	136.7
46°	135.0	133.7	135.0	133.3	128.6	125.9
46.5°	124.8	123.6	124.8	123.2	118.5	116.1
47°	115.0	113.7	115.0	113.2	108.6	106.3
47.5°	105.3	104.3	105.3	103.2	99.0	96.9
48°	96.1	95.5	96.1	93.9	89.7	87.5
48.5°	87.4	86.8	87.4	84.9	81.0	78.5
49°	79.0	79.1	79.0	76.3	72.7	70.3
49.5°	71.0	71.4	71.0	68.0	64.6	62.8
50°	63.2	63.8	63.2	60.0	57.1	55.5
50.5°	55.7	56.5	55.7	52.4	50.0	48.7
51°	48.8	49.5	48.8	45.9	43.6	42.4
51.5°	42.3	43.5	42.3	39.7	37.7	36.8
52°	36.2	37.5	36.2	34.0	32.3	31.4
52.5°	30.6	31.8	30.6	28.4	27.2	27.0
53°	25.8	26.6	25.8	23.8	22.7	22.8
53.5°	21.6	21.9	21.6	19.8	19.0	18.8
54°	17.7	17.7	17.7	16.1	15.6	15.2
54.5°	14.1	14.0	14.1	12.7	12.5	12.3
55°	10.9	11.3	10.9	9.7	9.5	9.6
55.5°	8.1	8.7	8.1	7.4	7.0	7.0
56°	6.2	6.7	6.2	5.5	5.0	4.7
56.5°	4.4	4.8	4.4	4.0	3.3	3.2
57°	2.9	2.9	2.9	2.7	2.3	2.6
57.5°	2.1	1.9	2.1	1.9	1.8	2.0
58°	1.7	1.4	1.7	1.6	1.5	1.6
58.5°	1.4	1.2	1.4	1.3	1.2	1.1
59°	1.1	1.0	1.1	1.0	1.0	1.0
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: P775784
 CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-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	0.0
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: P775784
CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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21.5°	509.7	509.3	509.1	509.7	510.4	509.7	509.1	509.3	509.7	509.3	509.1
22°	507.1	506.9	506.5	507.2	507.7	507.2	506.5	506.9	507.1	506.9	506.5



44°	170.5	172.4	175.9	177.0	177.2	177.0	175.9	172.4	170.5	172.4	175.9
44.5°	159.0	161.0	164.9	166.1	166.0	166.1	164.9	161.0	159.0	161.0	164.9



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°	509.7	510.4	509.7	509.1	509.3	509.7
22°	507.2	507.7	507.2	506.5	506.9	507.1



44°	177.0	177.2	177.0	175.9	172.4	170.5
44.5°	166.1	166.0	166.1	164.9	161.0	159.0

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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)