

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: P775783

Luminaire Tested: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775783
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-4000K
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

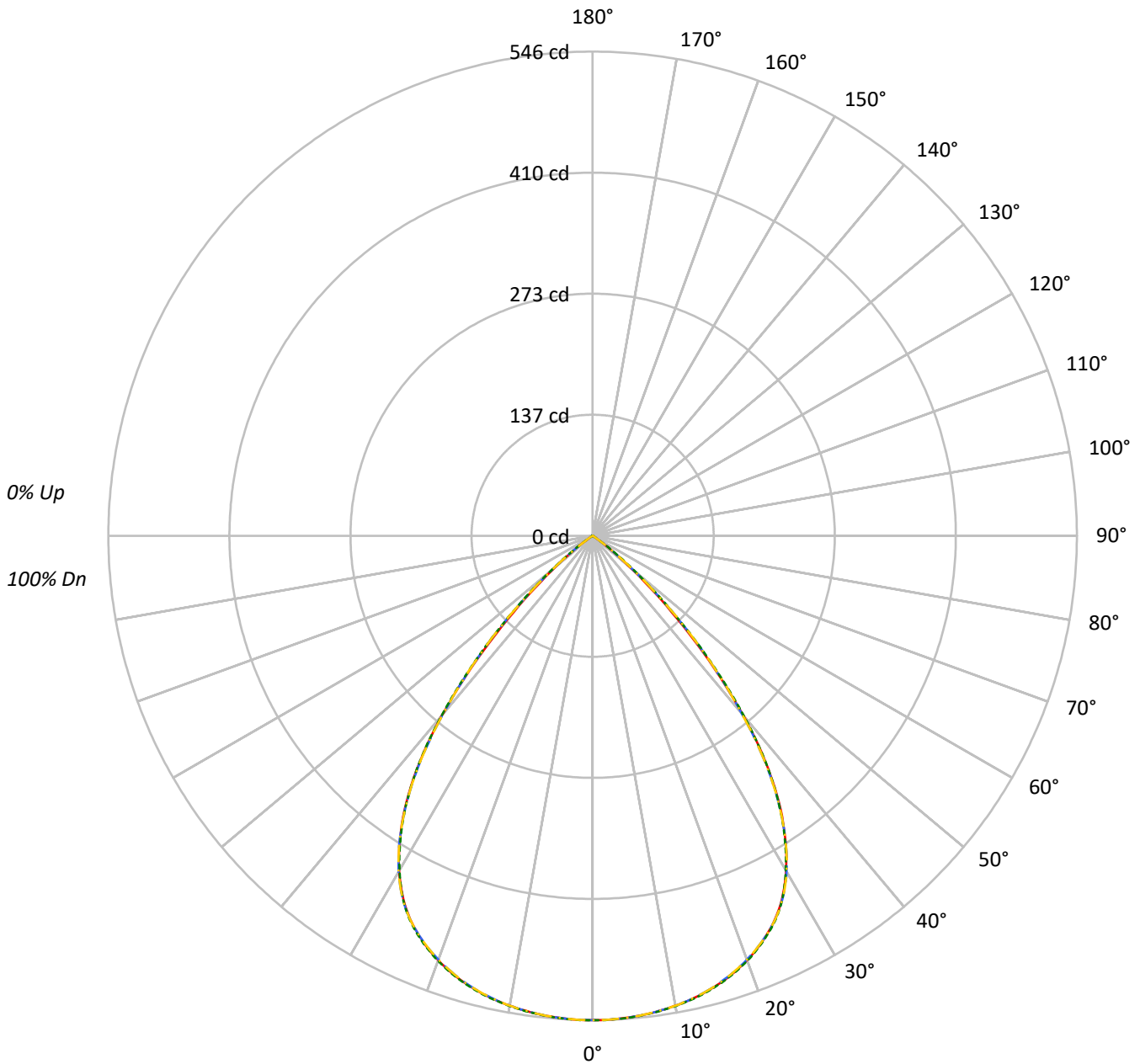
Lumens per Lamp: N/A
Luminaire Lumens: 776.8 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	98	97	96	95	94	92
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	90	88	84	81	79	77
	2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	81	79	77	75	72	70
	3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	75	72	70	68	66	64	64
	4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	79	75	72	70	68	66	64	62	60	59	59
	5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66	64	62	60	58	56	54	54	54
	6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	57	55	53	51	49	48	48
	7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54	52	50	48	46	44	44	44
	8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	48	46	44	42	40	40	40
	9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46	44	42	40	38	36	36	36
	10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	40	38	36	34	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29948	29948	29948	29948
5°	29947	29958	29947	29958
10°	29954	29976	29954	29976
15°	29921	29955	29921	29955
20°	29712	29753	29712	29753
25°	29143	29203	29143	29203
30°	27612	27568	27612	27568
35°	24474	24393	24474	24393
40°	18878	19036	18878	19036
45°	11280	11846	11280	11846
50°	4665	5364	4665	5364
55°	898	1061	898	1061
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: 11869 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	6.7
10°-20°	148.6	19.1
20°-30°	220.7	28.4
30°-40°	223.7	28.8
40°-50°	117.1	15.1
50°-60°	14.6	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°	421.1	54.2
0°-40°	644.8	83.0
0°-60°	776.5	100.0
0°-90°	776.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	546	546	546	546	546	
5°	544	544	544	544	544	52
15°	527	528	527	528	527	149
25°	482	483	482	483	482	221
35°	366	364	366	364	366	224
45°	146	153	146	153	146	114
55°	9	11	9	11	9	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°	546.3	546.3	546.3	546.3	546.3	546.3	546.3	546.3	546.3	546.3	546.3
0.5°	546.3	546.2	546.2	546.2	546.4	546.2	546.2	546.2	546.3	546.2	546.2
1°	546.2	546.2	546.1	546.1	546.4	546.1	546.1	546.2	546.2	546.2	546.1
1.5°	546.1	546.1	546.0	546.0	546.3	546.0	546.0	546.1	546.1	546.1	546.0
2°	546.0	545.9	545.9	545.9	546.1	545.9	545.9	545.9	546.0	545.9	545.9
2.5°	545.8	545.7	545.7	545.7	546.0	545.7	545.7	545.7	545.8	545.7	545.7
3°	545.5	545.5	545.5	545.5	545.8	545.5	545.5	545.5	545.5	545.5	545.5
3.5°	545.2	545.2	545.2	545.1	545.5	545.1	545.2	545.2	545.2	545.2	545.2
4°	544.9	544.9	544.9	544.9	545.1	544.9	544.9	544.9	544.9	544.9	544.9
4.5°	544.5	544.5	544.5	544.5	544.8	544.5	544.5	544.5	544.5	544.5	544.5
5°	544.2	544.2	544.2	544.2	544.4	544.2	544.2	544.2	544.2	544.2	544.2
5.5°	543.8	543.8	543.8	543.8	544.1	543.8	543.8	543.8	543.8	543.8	543.8
6°	543.4	543.3	543.3	543.3	543.6	543.3	543.3	543.3	543.4	543.3	543.3
6.5°	542.8	542.7	542.8	542.8	543.1	542.8	542.8	542.7	542.8	542.7	542.8
7°	542.3	542.2	542.2	542.3	542.5	542.3	542.2	542.2	542.3	542.2	542.2
7.5°	541.7	541.7	541.7	541.7	542.0	541.7	541.7	541.7	541.7	541.7	541.7
8°	541.0	541.0	541.0	541.0	541.4	541.0	541.0	541.0	541.0	541.0	541.0
8.5°	540.4	540.3	540.3	540.4	540.7	540.4	540.3	540.3	540.4	540.3	540.3
9°	539.7	539.7	539.7	539.7	540.0	539.7	539.7	539.7	539.7	539.7	539.7
9.5°	538.9	538.8	538.8	538.9	539.3	538.9	538.8	538.8	538.9	538.8	538.8
10°	538.1	538.1	538.0	538.1	538.5	538.1	538.0	538.1	538.1	538.1	538.0
10.5°	537.4	537.2	537.2	537.3	537.7	537.3	537.2	537.2	537.4	537.2	537.2
11°	536.4	536.3	536.2	536.4	536.8	536.4	536.2	536.3	536.4	536.3	536.2
11.5°	535.5	535.3	535.3	535.5	535.9	535.5	535.3	535.3	535.5	535.3	535.3
12°	534.4	534.3	534.2	534.4	535.0	534.4	534.2	534.3	534.4	534.3	534.2
12.5°	533.4	533.2	533.1	533.4	533.9	533.4	533.1	533.2	533.4	533.2	533.1
13°	532.3	532.1	531.9	532.2	532.9	532.2	531.9	532.1	532.3	532.1	531.9
13.5°	531.1	530.9	530.8	531.1	531.7	531.1	530.8	530.9	531.1	530.9	530.8
14°	529.9	529.6	529.4	529.8	530.4	529.8	529.4	529.6	529.9	529.6	529.4
14.5°	528.6	528.3	528.1	528.4	529.2	528.4	528.1	528.3	528.6	528.3	528.1
15°	527.2	526.9	526.7	527.1	527.8	527.1	526.7	526.9	527.2	526.9	526.7
15.5°	525.7	525.4	525.2	525.6	526.3	525.6	525.2	525.4	525.7	525.4	525.2
16°	524.2	523.9	523.6	524.1	524.9	524.1	523.6	523.9	524.2	523.9	523.6
16.5°	522.7	522.3	522.0	522.6	523.3	522.6	522.0	522.3	522.7	522.3	522.0
17°	521.0	520.6	520.4	520.9	521.6	520.9	520.4	520.6	521.0	520.6	520.4
17.5°	519.2	518.9	518.6	519.1	519.9	519.1	518.6	518.9	519.2	518.9	518.6
18°	517.4	517.0	516.7	517.3	518.1	517.3	516.7	517.0	517.4	517.0	516.7
18.5°	515.4	515.1	514.8	515.4	516.2	515.4	514.8	515.1	515.4	515.1	514.8
19°	513.5	513.1	512.8	513.4	514.2	513.4	512.8	513.1	513.5	513.1	512.8
19.5°	511.4	511.1	510.7	511.3	512.2	511.3	510.7	511.1	511.4	511.1	510.7
20°	509.3	508.9	508.6	509.2	510.0	509.2	508.6	508.9	509.3	508.9	508.6
20.5°	507.0	506.7	506.4	507.0	507.8	507.0	506.4	506.7	507.0	506.7	506.4
21°	504.7	504.4	504.1	504.7	505.4	504.7	504.1	504.4	504.7	504.4	504.1



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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°	497.1	496.7	496.6	497.2	497.8	497.2	496.6	496.7	497.1	496.7	496.6
23°	494.2	494.0	493.9	494.5	495.0	494.5	493.9	494.0	494.2	494.0	493.9
23.5°	491.3	491.2	491.2	491.7	492.1	491.7	491.2	491.2	491.3	491.2	491.2
24°	488.3	488.2	488.3	488.7	489.2	488.7	488.3	488.2	488.3	488.2	488.3
24.5°	485.2	485.2	485.3	485.6	486.0	485.6	485.3	485.2	485.2	485.2	485.3
25°	481.8	481.9	482.1	482.4	482.8	482.4	482.1	481.9	481.8	481.9	482.1
25.5°	478.4	478.5	478.8	478.8	479.2	478.8	478.8	478.5	478.4	478.5	478.8
26°	474.6	474.8	475.1	475.1	475.5	475.1	475.1	474.8	474.6	474.8	475.1
26.5°	470.7	471.0	471.4	471.2	471.4	471.2	471.4	471.0	470.7	471.0	471.4
27°	466.5	466.9	467.3	467.0	467.2	467.0	467.3	466.9	466.5	466.9	467.3
27.5°	462.1	462.6	463.0	462.6	462.6	462.6	463.0	462.6	462.1	462.6	463.0
28°	457.4	458.0	458.5	457.9	457.6	457.9	458.5	458.0	457.4	458.0	458.5
28.5°	452.4	453.2	453.7	453.0	452.4	453.0	453.7	453.2	452.4	453.2	453.7
29°	447.3	448.0	448.5	447.8	447.1	447.8	448.5	448.0	447.3	448.0	448.5
29.5°	441.8	442.7	443.2	442.4	441.4	442.4	443.2	442.7	441.8	442.7	443.2
30°	436.2	436.8	437.4	436.5	435.5	436.5	437.4	436.8	436.2	436.8	437.4
30.5°	430.3	430.9	431.4	430.4	429.3	430.4	431.4	430.9	430.3	430.9	431.4
31°	424.1	424.6	425.1	424.2	423.0	424.2	425.1	424.6	424.1	424.6	425.1
31.5°	417.7	418.0	418.5	417.5	416.4	417.5	418.5	418.0	417.7	418.0	418.5
32°	411.1	411.1	411.6	410.5	409.7	410.5	411.6	411.1	411.1	411.1	411.6
32.5°	404.1	404.0	404.3	403.3	402.7	403.3	404.3	404.0	404.1	404.0	404.3
33°	397.0	396.6	396.9	395.8	395.6	395.8	396.9	396.6	397.0	396.6	396.9
33.5°	389.7	389.0	389.1	388.2	388.1	388.2	389.1	389.0	389.7	389.0	389.1
34°	382.0	381.1	381.1	380.1	380.6	380.1	381.1	381.1	382.0	381.1	381.1
34.5°	374.0	373.1	372.8	371.8	372.7	371.8	372.8	373.1	374.0	373.1	372.8
35°	365.7	364.7	364.2	363.5	364.5	363.5	364.2	364.7	365.7	364.7	364.2
35.5°	357.0	356.1	355.4	355.0	356.1	355.0	355.4	356.1	357.0	356.1	355.4
36°	348.0	347.3	346.3	346.1	347.4	346.1	346.3	347.3	348.0	347.3	346.3
36.5°	338.6	338.1	336.8	336.9	338.5	336.9	336.8	338.1	338.6	338.1	336.8
37°	328.9	328.5	327.1	327.6	329.1	327.6	327.1	328.5	328.9	328.5	327.1
37.5°	318.8	318.7	316.9	317.8	319.2	317.8	316.9	318.7	318.8	318.7	316.9
38°	308.5	308.4	306.4	307.7	309.1	307.7	306.4	308.4	308.5	308.4	306.4
38.5°	297.8	297.7	295.5	297.4	298.7	297.4	295.5	297.7	297.8	297.7	295.5
39°	286.9	286.5	284.4	286.9	288.1	286.9	284.4	286.5	286.9	286.5	284.4
39.5°	275.6	275.1	273.2	275.9	277.2	275.9	273.2	275.1	275.6	275.1	273.2
40°	263.8	263.3	261.8	264.6	266.0	264.6	261.8	263.3	263.8	263.3	261.8
40.5°	252.0	251.5	250.4	253.1	254.3	253.1	250.4	251.5	252.0	251.5	250.4
41°	239.9	239.6	239.4	241.7	242.8	241.7	239.4	239.6	239.9	239.6	239.4
41.5°	227.9	227.6	228.4	230.3	231.2	230.3	228.4	227.6	227.9	227.6	228.4
42°	215.8	215.9	217.4	218.7	219.9	218.7	217.4	215.9	215.8	215.9	217.4
42.5°	203.7	204.2	206.4	207.5	208.5	207.5	206.4	204.2	203.7	204.2	206.4
43°	191.6	192.7	195.4	196.3	197.1	196.3	195.4	192.7	191.6	192.7	195.4
43.5°	179.8	181.2	184.4	185.3	185.7	185.3	184.4	181.2	179.8	181.2	184.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	145.5	147.6	151.8	153.1	152.8	153.1	151.8	147.6	145.5	147.6	151.8
45.5°	134.7	136.9	141.3	143.0	142.2	143.0	141.3	136.9	134.7	136.9	141.3
46°	124.1	126.7	131.4	133.0	131.8	133.0	131.4	126.7	124.1	126.7	131.4
46.5°	114.4	116.8	121.4	123.0	121.8	123.0	121.4	116.8	114.4	116.8	121.4
47°	104.8	107.0	111.5	113.3	112.0	113.3	111.5	107.0	104.8	107.0	111.5
47.5°	95.4	97.5	101.7	103.7	102.8	103.7	101.7	97.5	95.4	97.5	101.7
48°	86.2	88.4	92.5	94.7	94.1	94.7	92.5	88.4	86.2	88.4	92.5
48.5°	77.4	79.8	83.7	86.1	85.6	86.1	83.7	79.8	77.4	79.8	83.7
49°	69.3	71.6	75.2	77.8	77.9	77.8	75.2	71.6	69.3	71.6	75.2
49.5°	61.8	63.6	67.0	69.9	70.3	69.9	67.0	63.6	61.8	63.6	67.0
50°	54.7	56.3	59.1	62.3	62.9	62.3	59.1	56.3	54.7	56.3	59.1
50.5°	48.0	49.2	51.7	54.9	55.6	54.9	51.7	49.2	48.0	49.2	51.7
51°	41.8	42.9	45.3	48.1	48.8	48.1	45.3	42.9	41.8	42.9	45.3
51.5°	36.2	37.2	39.2	41.7	42.8	41.7	39.2	37.2	36.2	37.2	39.2
52°	31.0	31.8	33.5	35.7	37.0	35.7	33.5	31.8	31.0	31.8	33.5
52.5°	26.6	26.8	28.0	30.1	31.3	30.1	28.0	26.8	26.6	26.8	28.0
53°	22.5	22.4	23.4	25.4	26.2	25.4	23.4	22.4	22.5	22.4	23.4
53.5°	18.5	18.7	19.5	21.3	21.6	21.3	19.5	18.7	18.5	18.7	19.5
54°	15.0	15.3	15.9	17.4	17.4	17.4	15.9	15.3	15.0	15.3	15.9
54.5°	12.1	12.3	12.5	13.9	13.8	13.9	12.5	12.3	12.1	12.3	12.5
55°	9.4	9.3	9.6	10.7	11.1	10.7	9.6	9.3	9.4	9.3	9.6
55.5°	6.9	6.9	7.2	8.0	8.6	8.0	7.2	6.9	6.9	6.9	7.2
56°	4.6	4.9	5.5	6.1	6.6	6.1	5.5	4.9	4.6	4.9	5.5
56.5°	3.1	3.3	4.0	4.3	4.7	4.3	4.0	3.3	3.1	3.3	4.0
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	1.5	1.6	1.7	1.4	1.7	1.6	1.5	1.6	1.5	1.6
58.5°	1.0	1.2	1.3	1.4	1.2	1.4	1.3	1.2	1.0	1.2	1.3
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: P775783

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

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: P775783
CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

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: P775783

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	546.3	546.3	546.3	546.3	546.3	546.3
0.5°	546.2	546.4	546.2	546.2	546.2	546.3
1°	546.1	546.4	546.1	546.1	546.2	546.2
1.5°	546.0	546.3	546.0	546.0	546.1	546.1
2°	545.9	546.1	545.9	545.9	545.9	546.0
2.5°	545.7	546.0	545.7	545.7	545.7	545.8
3°	545.5	545.8	545.5	545.5	545.5	545.5
3.5°	545.1	545.5	545.1	545.2	545.2	545.2
4°	544.9	545.1	544.9	544.9	544.9	544.9
4.5°	544.5	544.8	544.5	544.5	544.5	544.5
5°	544.2	544.4	544.2	544.2	544.2	544.2
5.5°	543.8	544.1	543.8	543.8	543.8	543.8
6°	543.3	543.6	543.3	543.3	543.3	543.4
6.5°	542.8	543.1	542.8	542.8	542.7	542.8
7°	542.3	542.5	542.3	542.2	542.2	542.3
7.5°	541.7	542.0	541.7	541.7	541.7	541.7
8°	541.0	541.4	541.0	541.0	541.0	541.0
8.5°	540.4	540.7	540.4	540.3	540.3	540.4
9°	539.7	540.0	539.7	539.7	539.7	539.7
9.5°	538.9	539.3	538.9	538.8	538.8	538.9
10°	538.1	538.5	538.1	538.0	538.1	538.1
10.5°	537.3	537.7	537.3	537.2	537.2	537.4
11°	536.4	536.8	536.4	536.2	536.3	536.4
11.5°	535.5	535.9	535.5	535.3	535.3	535.5
12°	534.4	535.0	534.4	534.2	534.3	534.4
12.5°	533.4	533.9	533.4	533.1	533.2	533.4
13°	532.2	532.9	532.2	531.9	532.1	532.3
13.5°	531.1	531.7	531.1	530.8	530.9	531.1
14°	529.8	530.4	529.8	529.4	529.6	529.9
14.5°	528.4	529.2	528.4	528.1	528.3	528.6
15°	527.1	527.8	527.1	526.7	526.9	527.2
15.5°	525.6	526.3	525.6	525.2	525.4	525.7
16°	524.1	524.9	524.1	523.6	523.9	524.2
16.5°	522.6	523.3	522.6	522.0	522.3	522.7
17°	520.9	521.6	520.9	520.4	520.6	521.0
17.5°	519.1	519.9	519.1	518.6	518.9	519.2
18°	517.3	518.1	517.3	516.7	517.0	517.4
18.5°	515.4	516.2	515.4	514.8	515.1	515.4
19°	513.4	514.2	513.4	512.8	513.1	513.5
19.5°	511.3	512.2	511.3	510.7	511.1	511.4
20°	509.2	510.0	509.2	508.6	508.9	509.3
20.5°	507.0	507.8	507.0	506.4	506.7	507.0
21°	504.7	505.4	504.7	504.1	504.4	504.7



TEST NUMBER: P775783

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	497.2	497.8	497.2	496.6	496.7	497.1
23°	494.5	495.0	494.5	493.9	494.0	494.2
23.5°	491.7	492.1	491.7	491.2	491.2	491.3
24°	488.7	489.2	488.7	488.3	488.2	488.3
24.5°	485.6	486.0	485.6	485.3	485.2	485.2
25°	482.4	482.8	482.4	482.1	481.9	481.8
25.5°	478.8	479.2	478.8	478.8	478.5	478.4
26°	475.1	475.5	475.1	475.1	474.8	474.6
26.5°	471.2	471.4	471.2	471.4	471.0	470.7
27°	467.0	467.2	467.0	467.3	466.9	466.5
27.5°	462.6	462.6	462.6	463.0	462.6	462.1
28°	457.9	457.6	457.9	458.5	458.0	457.4
28.5°	453.0	452.4	453.0	453.7	453.2	452.4
29°	447.8	447.1	447.8	448.5	448.0	447.3
29.5°	442.4	441.4	442.4	443.2	442.7	441.8
30°	436.5	435.5	436.5	437.4	436.8	436.2
30.5°	430.4	429.3	430.4	431.4	430.9	430.3
31°	424.2	423.0	424.2	425.1	424.6	424.1
31.5°	417.5	416.4	417.5	418.5	418.0	417.7
32°	410.5	409.7	410.5	411.6	411.1	411.1
32.5°	403.3	402.7	403.3	404.3	404.0	404.1
33°	395.8	395.6	395.8	396.9	396.6	397.0
33.5°	388.2	388.1	388.2	389.1	389.0	389.7
34°	380.1	380.6	380.1	381.1	381.1	382.0
34.5°	371.8	372.7	371.8	372.8	373.1	374.0
35°	363.5	364.5	363.5	364.2	364.7	365.7
35.5°	355.0	356.1	355.0	355.4	356.1	357.0
36°	346.1	347.4	346.1	346.3	347.3	348.0
36.5°	336.9	338.5	336.9	336.8	338.1	338.6
37°	327.6	329.1	327.6	327.1	328.5	328.9
37.5°	317.8	319.2	317.8	316.9	318.7	318.8
38°	307.7	309.1	307.7	306.4	308.4	308.5
38.5°	297.4	298.7	297.4	295.5	297.7	297.8
39°	286.9	288.1	286.9	284.4	286.5	286.9
39.5°	275.9	277.2	275.9	273.2	275.1	275.6
40°	264.6	266.0	264.6	261.8	263.3	263.8
40.5°	253.1	254.3	253.1	250.4	251.5	252.0
41°	241.7	242.8	241.7	239.4	239.6	239.9
41.5°	230.3	231.2	230.3	228.4	227.6	227.9
42°	218.7	219.9	218.7	217.4	215.9	215.8
42.5°	207.5	208.5	207.5	206.4	204.2	203.7
43°	196.3	197.1	196.3	195.4	192.7	191.6
43.5°	185.3	185.7	185.3	184.4	181.2	179.8



TEST NUMBER: P775783

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	153.1	152.8	153.1	151.8	147.6	145.5
45.5°	143.0	142.2	143.0	141.3	136.9	134.7
46°	133.0	131.8	133.0	131.4	126.7	124.1
46.5°	123.0	121.8	123.0	121.4	116.8	114.4
47°	113.3	112.0	113.3	111.5	107.0	104.8
47.5°	103.7	102.8	103.7	101.7	97.5	95.4
48°	94.7	94.1	94.7	92.5	88.4	86.2
48.5°	86.1	85.6	86.1	83.7	79.8	77.4
49°	77.8	77.9	77.8	75.2	71.6	69.3
49.5°	69.9	70.3	69.9	67.0	63.6	61.8
50°	62.3	62.9	62.3	59.1	56.3	54.7
50.5°	54.9	55.6	54.9	51.7	49.2	48.0
51°	48.1	48.8	48.1	45.3	42.9	41.8
51.5°	41.7	42.8	41.7	39.2	37.2	36.2
52°	35.7	37.0	35.7	33.5	31.8	31.0
52.5°	30.1	31.3	30.1	28.0	26.8	26.6
53°	25.4	26.2	25.4	23.4	22.4	22.5
53.5°	21.3	21.6	21.3	19.5	18.7	18.5
54°	17.4	17.4	17.4	15.9	15.3	15.0
54.5°	13.9	13.8	13.9	12.5	12.3	12.1
55°	10.7	11.1	10.7	9.6	9.3	9.4
55.5°	8.0	8.6	8.0	7.2	6.9	6.9
56°	6.1	6.6	6.1	5.5	4.9	4.6
56.5°	4.3	4.7	4.3	4.0	3.3	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	1.4	1.7	1.6	1.5	1.6
58.5°	1.4	1.2	1.4	1.3	1.2	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: P775783
 CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

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: P775783
CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-4000K

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°	502.3	501.9	501.7	502.3	502.9	502.3	501.7	501.9	502.3	501.9	501.7
22°	499.7	499.5	499.2	499.8	500.3	499.8	499.2	499.5	499.7	499.5	499.2



44°	168.0	169.9	173.3	174.4	174.6	174.4	173.3	169.9	168.0	169.9	173.3
44.5°	156.7	158.7	162.5	163.7	163.6	163.7	162.5	158.7	156.7	158.7	162.5



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°	502.3	502.9	502.3	501.7	501.9	502.3
22°	499.8	500.3	499.8	499.2	499.5	499.7



44°	174.4	174.6	174.4	173.3	169.9	168.0
44.5°	163.7	163.6	163.7	162.5	158.7	156.7

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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)