

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: P775780

Luminaire Tested: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775780
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-2700K
Description: 6 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

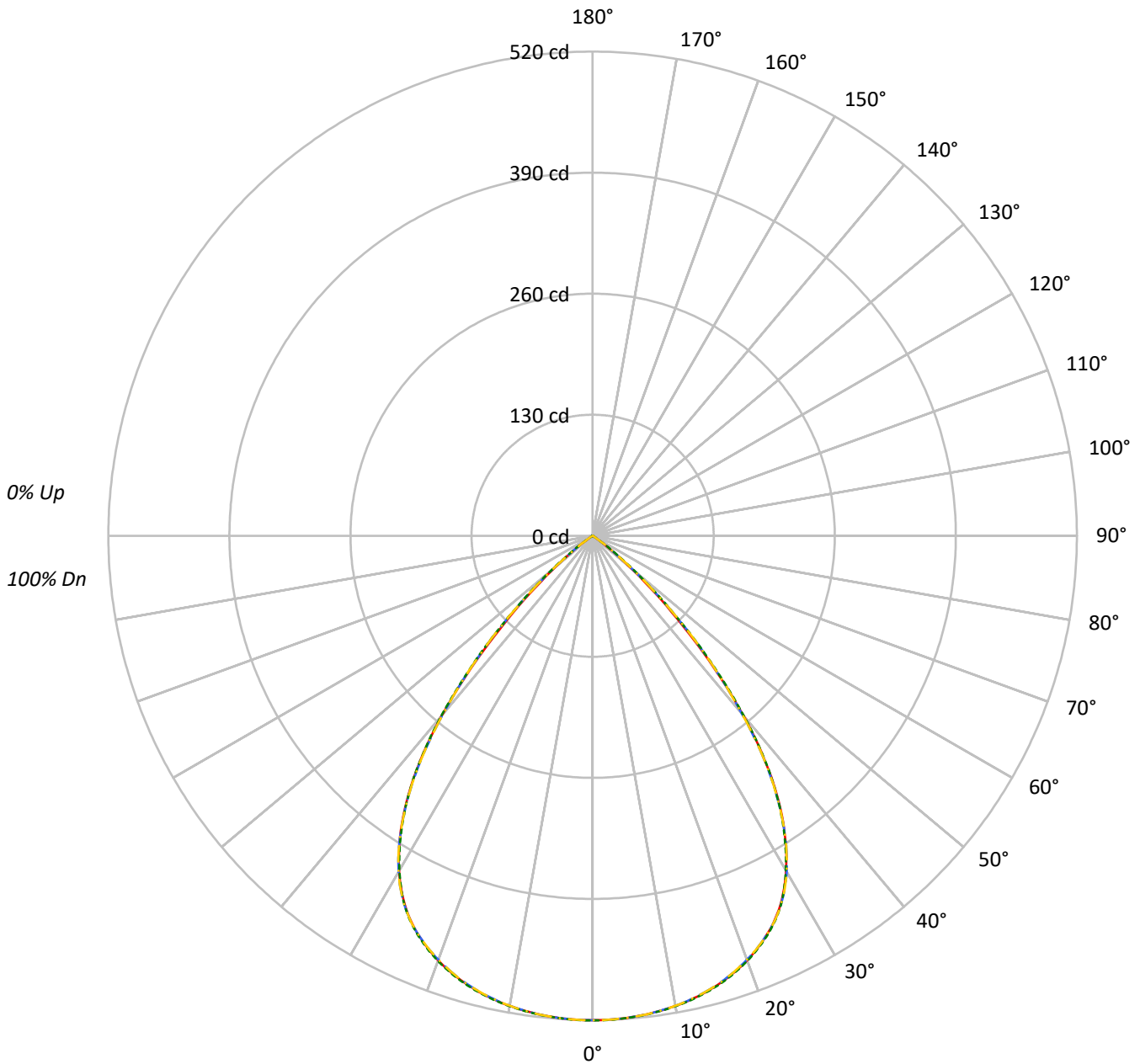
Lumens per Lamp: N/A
Luminaire Lumens: 740.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	28528	28528	28528	28528
5°	28527	28538	28527	28538
10°	28534	28557	28534	28557
15°	28502	28536	28502	28536
20°	28306	28341	28306	28341
25°	27764	27818	27764	27818
30°	26302	26264	26302	26264
35°	23316	23242	23316	23242
40°	17984	18134	17984	18134
45°	10745	11280	10745	11280
50°	4443	5109	4443	5109
55°	860	1013	860	1013
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: 11303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	6.7
10°-20°	141.6	19.1
20°-30°	210.3	28.4
30°-40°	213.1	28.8
40°-50°	111.5	15.1
50°-60°	13.9	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°	401.1	54.2
0°-40°	614.3	83.0
0°-60°	739.7	100.0
0°-90°	740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	520	520	520	520	520	
5°	518	519	518	519	518	49
15°	502	503	502	503	502	142
25°	459	460	459	460	459	210
35°	348	347	348	347	348	213
45°	139	146	139	146	139	109
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°	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4
0.5°	520.4	520.3	520.3	520.3	520.5	520.3	520.3	520.3	520.4	520.3	520.3
1°	520.3	520.3	520.2	520.2	520.5	520.2	520.2	520.3	520.3	520.3	520.2
1.5°	520.2	520.2	520.1	520.1	520.4	520.1	520.1	520.2	520.2	520.2	520.1
2°	520.1	520.0	520.0	520.0	520.2	520.0	520.0	520.0	520.1	520.0	520.0
2.5°	519.9	519.8	519.8	519.8	520.1	519.8	519.8	519.8	519.9	519.8	519.8
3°	519.6	519.6	519.6	519.6	519.9	519.6	519.6	519.6	519.6	519.6	519.6
3.5°	519.4	519.4	519.4	519.3	519.6	519.3	519.4	519.4	519.4	519.4	519.4
4°	519.1	519.1	519.1	519.1	519.3	519.1	519.1	519.1	519.1	519.1	519.1
4.5°	518.7	518.7	518.7	518.7	519.0	518.7	518.7	518.7	518.7	518.7	518.7
5°	518.4	518.4	518.4	518.4	518.6	518.4	518.4	518.4	518.4	518.4	518.4
5.5°	518.0	518.0	518.0	518.0	518.3	518.0	518.0	518.0	518.0	518.0	518.0
6°	517.6	517.5	517.5	517.5	517.8	517.5	517.5	517.5	517.6	517.5	517.5
6.5°	517.1	517.0	517.1	517.1	517.4	517.1	517.1	517.0	517.1	517.0	517.1
7°	516.6	516.5	516.5	516.6	516.8	516.6	516.5	516.5	516.6	516.5	516.5
7.5°	516.0	516.0	516.0	516.0	516.3	516.0	516.0	516.0	516.0	516.0	516.0
8°	515.4	515.4	515.4	515.4	515.7	515.4	515.4	515.4	515.4	515.4	515.4
8.5°	514.8	514.7	514.7	514.8	515.1	514.8	514.7	514.7	514.8	514.7	514.7
9°	514.1	514.1	514.1	514.1	514.4	514.1	514.1	514.1	514.1	514.1	514.1
9.5°	513.4	513.3	513.3	513.4	513.7	513.4	513.3	513.3	513.4	513.3	513.3
10°	512.6	512.6	512.5	512.6	513.0	512.6	512.5	512.6	512.6	512.6	512.5
10.5°	511.9	511.7	511.7	511.8	512.2	511.8	511.7	511.7	511.9	511.7	511.7
11°	511.0	510.9	510.8	511.0	511.4	511.0	510.8	510.9	511.0	510.9	510.8
11.5°	510.1	509.9	509.9	510.1	510.5	510.1	509.9	509.9	510.1	509.9	509.9
12°	509.1	509.0	508.9	509.1	509.6	509.1	508.9	509.0	509.1	509.0	508.9
12.5°	508.1	507.9	507.8	508.1	508.6	508.1	507.8	507.9	508.1	507.9	507.8
13°	507.1	506.9	506.7	507.0	507.6	507.0	506.7	506.9	507.1	506.9	506.7
13.5°	505.9	505.7	505.6	505.9	506.5	505.9	505.6	505.7	505.9	505.7	505.6
14°	504.8	504.5	504.3	504.7	505.3	504.7	504.3	504.5	504.8	504.5	504.3
14.5°	503.5	503.3	503.1	503.4	504.1	503.4	503.1	503.3	503.5	503.3	503.1
15°	502.2	501.9	501.7	502.1	502.8	502.1	501.7	501.9	502.2	501.9	501.7
15.5°	500.8	500.5	500.3	500.7	501.4	500.7	500.3	500.5	500.8	500.5	500.3
16°	499.4	499.1	498.8	499.3	500.0	499.3	498.8	499.1	499.4	499.1	498.8
16.5°	497.9	497.5	497.3	497.8	498.5	497.8	497.3	497.5	497.9	497.5	497.3
17°	496.3	495.9	495.7	496.2	496.9	496.2	495.7	495.9	496.3	495.9	495.7
17.5°	494.6	494.3	494.0	494.5	495.3	494.5	494.0	494.3	494.6	494.3	494.0
18°	492.9	492.5	492.2	492.8	493.5	492.8	492.2	492.5	492.9	492.5	492.2
18.5°	491.0	490.7	490.4	491.0	491.7	491.0	490.4	490.7	491.0	490.7	490.4
19°	489.2	488.8	488.5	489.1	489.8	489.1	488.5	488.8	489.2	488.8	488.5
19.5°	487.2	486.9	486.5	487.1	487.9	487.1	486.5	486.9	487.2	486.9	486.5
20°	485.2	484.8	484.5	485.1	485.8	485.1	484.5	484.8	485.2	484.8	484.5
20.5°	483.0	482.7	482.4	483.0	483.7	483.0	482.4	482.7	483.0	482.7	482.4
21°	480.8	480.5	480.2	480.8	481.4	480.8	480.2	480.5	480.8	480.5	480.2



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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°	473.5	473.2	473.1	473.6	474.2	473.6	473.1	473.2	473.5	473.2	473.1
23°	470.8	470.6	470.5	471.1	471.5	471.1	470.5	470.6	470.8	470.6	470.5
23.5°	468.0	467.9	467.9	468.4	468.8	468.4	467.9	467.9	468.0	467.9	467.9
24°	465.2	465.1	465.2	465.5	466.0	465.5	465.2	465.1	465.2	465.1	465.2
24.5°	462.2	462.2	462.3	462.6	463.0	462.6	462.3	462.2	462.2	462.2	462.3
25°	459.0	459.1	459.3	459.5	459.9	459.5	459.3	459.1	459.0	459.1	459.3
25.5°	455.7	455.8	456.1	456.1	456.5	456.1	456.1	455.8	455.7	455.8	456.1
26°	452.1	452.3	452.6	452.6	453.0	452.6	452.6	452.3	452.1	452.3	452.6
26.5°	448.4	448.7	449.1	448.9	449.1	448.9	449.1	448.7	448.4	448.7	449.1
27°	444.4	444.8	445.2	444.9	445.1	444.9	445.2	444.8	444.4	444.8	445.2
27.5°	440.2	440.7	441.1	440.7	440.7	440.7	441.1	440.7	440.2	440.7	441.1
28°	435.7	436.3	436.8	436.2	435.9	436.2	436.8	436.3	435.7	436.3	436.8
28.5°	431.0	431.7	432.2	431.5	431.0	431.5	432.2	431.7	431.0	431.7	432.2
29°	426.1	426.8	427.3	426.6	425.9	426.6	427.3	426.8	426.1	426.8	427.3
29.5°	420.9	421.7	422.2	421.4	420.5	421.4	422.2	421.7	420.9	421.7	422.2
30°	415.5	416.1	416.7	415.8	414.9	415.8	416.7	416.1	415.5	416.1	416.7
30.5°	409.9	410.5	411.0	410.0	409.0	410.0	411.0	410.5	409.9	410.5	411.0
31°	404.0	404.5	405.0	404.1	403.0	404.1	405.0	404.5	404.0	404.5	405.0
31.5°	397.9	398.2	398.7	397.7	396.7	397.7	398.7	398.2	397.9	398.2	398.7
32°	391.6	391.6	392.1	391.1	390.3	391.1	392.1	391.6	391.6	391.6	392.1
32.5°	385.0	384.9	385.2	384.2	383.6	384.2	385.2	384.9	385.0	384.9	385.2
33°	378.2	377.8	378.1	377.1	376.9	377.1	378.1	377.8	378.2	377.8	378.1
33.5°	371.3	370.6	370.7	369.8	369.7	369.8	370.7	370.6	371.3	370.6	370.7
34°	363.9	363.1	363.1	362.1	362.6	362.1	363.1	363.1	363.9	363.1	363.1
34.5°	356.3	355.4	355.2	354.2	355.1	354.2	355.2	355.4	356.3	355.4	355.2
35°	348.4	347.4	347.0	346.3	347.3	346.3	347.0	347.4	348.4	347.4	347.0
35.5°	340.1	339.3	338.6	338.2	339.3	338.2	338.6	339.3	340.1	339.3	338.6
36°	331.5	330.9	329.9	329.7	331.0	329.7	329.9	330.9	331.5	330.9	329.9
36.5°	322.6	322.1	320.9	321.0	322.5	321.0	320.9	322.1	322.6	322.1	320.9
37°	313.3	313.0	311.6	312.1	313.5	312.1	311.6	313.0	313.3	313.0	311.6
37.5°	303.7	303.6	301.9	302.8	304.1	302.8	301.9	303.6	303.7	303.6	301.9
38°	293.9	293.8	291.9	293.2	294.5	293.2	291.9	293.8	293.9	293.8	291.9
38.5°	283.7	283.6	281.5	283.3	284.6	283.3	281.5	283.6	283.7	283.6	281.5
39°	273.3	273.0	271.0	273.3	274.5	273.3	271.0	273.0	273.3	273.0	271.0
39.5°	262.6	262.1	260.3	262.9	264.1	262.9	260.3	262.1	262.6	262.1	260.3
40°	251.3	250.9	249.4	252.1	253.4	252.1	249.4	250.9	251.3	250.9	249.4
40.5°	240.1	239.6	238.6	241.2	242.3	241.2	238.6	239.6	240.1	239.6	238.6
41°	228.5	228.2	228.0	230.3	231.3	230.3	228.0	228.2	228.5	228.2	228.0
41.5°	217.1	216.8	217.5	219.3	220.2	219.3	217.5	216.8	217.1	216.8	217.5
42°	205.5	205.6	207.1	208.3	209.4	208.3	207.1	205.6	205.5	205.6	207.1
42.5°	194.0	194.5	196.6	197.6	198.6	197.6	196.6	194.5	194.0	194.5	196.6
43°	182.5	183.5	186.1	187.0	187.7	187.0	186.1	183.5	182.5	183.5	186.1
43.5°	171.2	172.6	175.6	176.5	176.9	176.5	175.6	172.6	171.2	172.6	175.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	138.6	140.6	144.6	145.8	145.5	145.8	144.6	140.6	138.6	140.6	144.6
45.5°	128.3	130.4	134.6	136.2	135.4	136.2	134.6	130.4	128.3	130.4	134.6
46°	118.2	120.7	125.1	126.7	125.5	126.7	125.1	120.7	118.2	120.7	125.1
46.5°	109.0	111.2	115.6	117.1	116.0	117.1	115.6	111.2	109.0	111.2	115.6
47°	99.8	101.9	106.2	107.9	106.7	107.9	106.2	101.9	99.8	101.9	106.2
47.5°	90.9	92.9	96.9	98.8	97.9	98.8	96.9	92.9	90.9	92.9	96.9
48°	82.1	84.2	88.1	90.2	89.6	90.2	88.1	84.2	82.1	84.2	88.1
48.5°	73.7	76.0	79.7	82.0	81.5	82.0	79.7	76.0	73.7	76.0	79.7
49°	66.0	68.2	71.6	74.1	74.2	74.1	71.6	68.2	66.0	68.2	71.6
49.5°	58.9	60.6	63.8	66.6	67.0	66.6	63.8	60.6	58.9	60.6	63.8
50°	52.1	53.6	56.3	59.3	59.9	59.3	56.3	53.6	52.1	53.6	56.3
50.5°	45.7	46.9	49.2	52.3	53.0	52.3	49.2	46.9	45.7	46.9	49.2
51°	39.8	40.9	43.1	45.8	46.5	45.8	43.1	40.9	39.8	40.9	43.1
51.5°	34.5	35.4	37.3	39.7	40.8	39.7	37.3	35.4	34.5	35.4	37.3
52°	29.5	30.3	31.9	34.0	35.2	34.0	31.9	30.3	29.5	30.3	31.9
52.5°	25.3	25.5	26.7	28.7	29.8	28.7	26.7	25.5	25.3	25.5	26.7
53°	21.4	21.3	22.3	24.2	25.0	24.2	22.3	21.3	21.4	21.3	22.3
53.5°	17.6	17.8	18.6	20.3	20.6	20.3	18.6	17.8	17.6	17.8	18.6
54°	14.3	14.6	15.1	16.6	16.6	16.6	15.1	14.6	14.3	14.6	15.1
54.5°	11.5	11.7	11.9	13.2	13.1	13.2	11.9	11.7	11.5	11.7	11.9
55°	9.0	8.9	9.1	10.2	10.6	10.2	9.1	8.9	9.0	8.9	9.1
55.5°	6.6	6.6	6.9	7.6	8.2	7.6	6.9	6.6	6.6	6.6	6.9
56°	4.4	4.7	5.2	5.8	6.3	5.8	5.2	4.7	4.4	4.7	5.2
56.5°	3.0	3.1	3.8	4.1	4.5	4.1	3.8	3.1	3.0	3.1	3.8
57°	2.4	2.2	2.5	2.7	2.7	2.7	2.5	2.2	2.4	2.2	2.5
57.5°	1.9	1.7	1.8	2.0	1.8	2.0	1.8	1.7	1.9	1.7	1.8
58°	1.5	1.4	1.5	1.6	1.3	1.6	1.5	1.4	1.5	1.4	1.5
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: P775780

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

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: P775780

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

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: P775780

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	520.4	520.4	520.4	520.4	520.4	520.4
0.5°	520.3	520.5	520.3	520.3	520.3	520.4
1°	520.2	520.5	520.2	520.2	520.3	520.3
1.5°	520.1	520.4	520.1	520.1	520.2	520.2
2°	520.0	520.2	520.0	520.0	520.0	520.1
2.5°	519.8	520.1	519.8	519.8	519.8	519.9
3°	519.6	519.9	519.6	519.6	519.6	519.6
3.5°	519.3	519.6	519.3	519.4	519.4	519.4
4°	519.1	519.3	519.1	519.1	519.1	519.1
4.5°	518.7	519.0	518.7	518.7	518.7	518.7
5°	518.4	518.6	518.4	518.4	518.4	518.4
5.5°	518.0	518.3	518.0	518.0	518.0	518.0
6°	517.5	517.8	517.5	517.5	517.5	517.6
6.5°	517.1	517.4	517.1	517.1	517.0	517.1
7°	516.6	516.8	516.6	516.5	516.5	516.6
7.5°	516.0	516.3	516.0	516.0	516.0	516.0
8°	515.4	515.7	515.4	515.4	515.4	515.4
8.5°	514.8	515.1	514.8	514.7	514.7	514.8
9°	514.1	514.4	514.1	514.1	514.1	514.1
9.5°	513.4	513.7	513.4	513.3	513.3	513.4
10°	512.6	513.0	512.6	512.5	512.6	512.6
10.5°	511.8	512.2	511.8	511.7	511.7	511.9
11°	511.0	511.4	511.0	510.8	510.9	511.0
11.5°	510.1	510.5	510.1	509.9	509.9	510.1
12°	509.1	509.6	509.1	508.9	509.0	509.1
12.5°	508.1	508.6	508.1	507.8	507.9	508.1
13°	507.0	507.6	507.0	506.7	506.9	507.1
13.5°	505.9	506.5	505.9	505.6	505.7	505.9
14°	504.7	505.3	504.7	504.3	504.5	504.8
14.5°	503.4	504.1	503.4	503.1	503.3	503.5
15°	502.1	502.8	502.1	501.7	501.9	502.2
15.5°	500.7	501.4	500.7	500.3	500.5	500.8
16°	499.3	500.0	499.3	498.8	499.1	499.4
16.5°	497.8	498.5	497.8	497.3	497.5	497.9
17°	496.2	496.9	496.2	495.7	495.9	496.3
17.5°	494.5	495.3	494.5	494.0	494.3	494.6
18°	492.8	493.5	492.8	492.2	492.5	492.9
18.5°	491.0	491.7	491.0	490.4	490.7	491.0
19°	489.1	489.8	489.1	488.5	488.8	489.2
19.5°	487.1	487.9	487.1	486.5	486.9	487.2
20°	485.1	485.8	485.1	484.5	484.8	485.2
20.5°	483.0	483.7	483.0	482.4	482.7	483.0
21°	480.8	481.4	480.8	480.2	480.5	480.8

TEST NUMBER: P775780

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	473.6	474.2	473.6	473.1	473.2	473.5
23°	471.1	471.5	471.1	470.5	470.6	470.8
23.5°	468.4	468.8	468.4	467.9	467.9	468.0
24°	465.5	466.0	465.5	465.2	465.1	465.2
24.5°	462.6	463.0	462.6	462.3	462.2	462.2
25°	459.5	459.9	459.5	459.3	459.1	459.0
25.5°	456.1	456.5	456.1	456.1	455.8	455.7
26°	452.6	453.0	452.6	452.6	452.3	452.1
26.5°	448.9	449.1	448.9	449.1	448.7	448.4
27°	444.9	445.1	444.9	445.2	444.8	444.4
27.5°	440.7	440.7	440.7	441.1	440.7	440.2
28°	436.2	435.9	436.2	436.8	436.3	435.7
28.5°	431.5	431.0	431.5	432.2	431.7	431.0
29°	426.6	425.9	426.6	427.3	426.8	426.1
29.5°	421.4	420.5	421.4	422.2	421.7	420.9
30°	415.8	414.9	415.8	416.7	416.1	415.5
30.5°	410.0	409.0	410.0	411.0	410.5	409.9
31°	404.1	403.0	404.1	405.0	404.5	404.0
31.5°	397.7	396.7	397.7	398.7	398.2	397.9
32°	391.1	390.3	391.1	392.1	391.6	391.6
32.5°	384.2	383.6	384.2	385.2	384.9	385.0
33°	377.1	376.9	377.1	378.1	377.8	378.2
33.5°	369.8	369.7	369.8	370.7	370.6	371.3
34°	362.1	362.6	362.1	363.1	363.1	363.9
34.5°	354.2	355.1	354.2	355.2	355.4	356.3
35°	346.3	347.3	346.3	347.0	347.4	348.4
35.5°	338.2	339.3	338.2	338.6	339.3	340.1
36°	329.7	331.0	329.7	329.9	330.9	331.5
36.5°	321.0	322.5	321.0	320.9	322.1	322.6
37°	312.1	313.5	312.1	311.6	313.0	313.3
37.5°	302.8	304.1	302.8	301.9	303.6	303.7
38°	293.2	294.5	293.2	291.9	293.8	293.9
38.5°	283.3	284.6	283.3	281.5	283.6	283.7
39°	273.3	274.5	273.3	271.0	273.0	273.3
39.5°	262.9	264.1	262.9	260.3	262.1	262.6
40°	252.1	253.4	252.1	249.4	250.9	251.3
40.5°	241.2	242.3	241.2	238.6	239.6	240.1
41°	230.3	231.3	230.3	228.0	228.2	228.5
41.5°	219.3	220.2	219.3	217.5	216.8	217.1
42°	208.3	209.4	208.3	207.1	205.6	205.5
42.5°	197.6	198.6	197.6	196.6	194.5	194.0
43°	187.0	187.7	187.0	186.1	183.5	182.5
43.5°	176.5	176.9	176.5	175.6	172.6	171.2



TEST NUMBER: P775780

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	145.8	145.5	145.8	144.6	140.6	138.6
45.5°	136.2	135.4	136.2	134.6	130.4	128.3
46°	126.7	125.5	126.7	125.1	120.7	118.2
46.5°	117.1	116.0	117.1	115.6	111.2	109.0
47°	107.9	106.7	107.9	106.2	101.9	99.8
47.5°	98.8	97.9	98.8	96.9	92.9	90.9
48°	90.2	89.6	90.2	88.1	84.2	82.1
48.5°	82.0	81.5	82.0	79.7	76.0	73.7
49°	74.1	74.2	74.1	71.6	68.2	66.0
49.5°	66.6	67.0	66.6	63.8	60.6	58.9
50°	59.3	59.9	59.3	56.3	53.6	52.1
50.5°	52.3	53.0	52.3	49.2	46.9	45.7
51°	45.8	46.5	45.8	43.1	40.9	39.8
51.5°	39.7	40.8	39.7	37.3	35.4	34.5
52°	34.0	35.2	34.0	31.9	30.3	29.5
52.5°	28.7	29.8	28.7	26.7	25.5	25.3
53°	24.2	25.0	24.2	22.3	21.3	21.4
53.5°	20.3	20.6	20.3	18.6	17.8	17.6
54°	16.6	16.6	16.6	15.1	14.6	14.3
54.5°	13.2	13.1	13.2	11.9	11.7	11.5
55°	10.2	10.6	10.2	9.1	8.9	9.0
55.5°	7.6	8.2	7.6	6.9	6.6	6.6
56°	5.8	6.3	5.8	5.2	4.7	4.4
56.5°	4.1	4.5	4.1	3.8	3.1	3.0
57°	2.7	2.7	2.7	2.5	2.2	2.4
57.5°	2.0	1.8	2.0	1.8	1.7	1.9
58°	1.6	1.3	1.6	1.5	1.4	1.5
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: P775780
 CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

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: P775780
CATALOG NUMBER: HCDJBL510CSD-HCD6TRMB-1000lm-2700K

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°	478.5	478.1	477.9	478.5	479.1	478.5	477.9	478.1	478.5	478.1	477.9
22°	476.0	475.8	475.5	476.1	476.6	476.1	475.5	475.8	476.0	475.8	475.5



44°	160.0	161.8	165.1	166.1	166.3	166.1	165.1	161.8	160.0	161.8	165.1
44.5°	149.2	151.1	154.8	155.9	155.8	155.9	154.8	151.1	149.2	151.1	154.8



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°	478.5	479.1	478.5	477.9	478.1	478.5
22°	476.1	476.6	476.1	475.5	475.8	476.0



44°	166.1	166.3	166.1	165.1	161.8	160.0
44.5°	155.9	155.8	155.9	154.8	151.1	149.2

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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)