

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: P775762

Luminaire Tested: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B057-HCD62TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRMW-1000lm-3500K
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

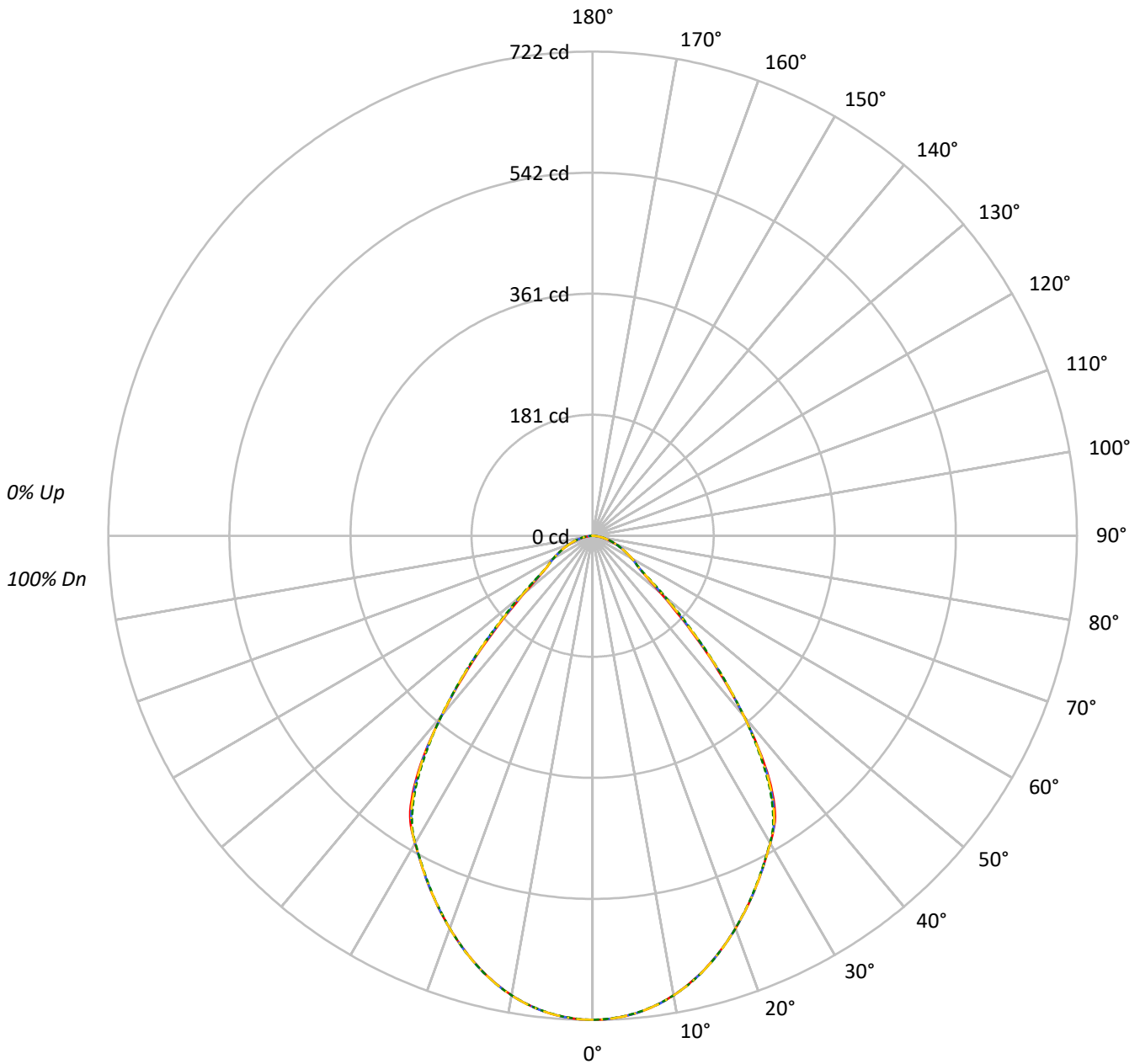
Lumens per Lamp: N/A
Luminaire Lumens: 1149.1 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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										
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								
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71								
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63								
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57								
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52								
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47								
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40								
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	39569	39569	39569	39569
5°	39363	39346	39363	39346
10°	38732	38732	38732	38732
15°	37673	37690	37673	37690
20°	36339	36327	36339	36327
25°	34895	34841	34895	34841
30°	33524	33474	33524	33474
35°	31266	30805	31266	30805
40°	25097	25126	25097	25126
45°	17560	18087	17560	18087
50°	11224	11957	11224	11957
55°	8162	8296	8162	8296
60°	7412	7379	7412	7379
65°	6667	6641	6667	6641
70°	5914	5995	5914	5995
75°	5147	5422	5147	5422
80°	4262	4799	4262	4799
85°	2579	3963	2579	3963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 18087 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	5.9
10°-20°	186.7	16.2
20°-30°	265.5	23.1
30°-40°	283.8	24.7
40°-50°	179.3	15.6
50°-60°	81.6	7.1
60°-70°	51.1	4.4
70°-80°	26.8	2.3
80°-90°	6.6	0.6
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°	519.8	45.2
0°-40°	803.6	69.9
0°-60°	1064.5	92.6
0°-90°	1149.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	722	722	722	722	722	
5°	715	715	715	715	715	68
15°	664	664	664	664	664	187
25°	577	576	577	576	577	266
35°	467	460	467	460	467	285
45°	226	233	226	233	226	177
55°	85	87	85	87	85	81
65°	51	51	51	51	51	51
75°	24	26	24	26	24	26
85°	4	6	4	6	4	6
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°	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8
0.5°	721.7	721.8	721.7	721.7	721.4	721.7	721.7	721.8	721.7	721.8	721.7
1°	721.5	721.6	721.6	721.5	721.2	721.5	721.6	721.6	721.5	721.6	721.6
1.5°	721.2	721.3	721.2	721.2	720.9	721.2	721.2	721.3	721.2	721.3	721.2
2°	720.8	720.8	720.8	720.8	720.4	720.8	720.8	720.8	720.8	720.8	720.8
2.5°	720.2	720.2	720.3	720.2	719.9	720.2	720.3	720.2	720.2	720.2	720.3
3°	719.4	719.5	719.5	719.5	719.1	719.5	719.5	719.5	719.4	719.5	719.5
3.5°	718.6	718.6	718.7	718.7	718.3	718.7	718.7	718.6	718.6	718.6	718.7
4°	717.7	717.7	717.7	717.7	717.4	717.7	717.7	717.7	717.7	717.7	717.7
4.5°	716.5	716.6	716.6	716.6	716.2	716.6	716.6	716.6	716.5	716.6	716.6
5°	715.3	715.4	715.4	715.4	715.0	715.4	715.4	715.4	715.3	715.4	715.4
5.5°	714.0	714.1	714.1	714.1	713.6	714.1	714.1	714.1	714.0	714.1	714.1
6°	712.5	712.5	712.5	712.5	712.2	712.5	712.5	712.5	712.5	712.5	712.5
6.5°	710.8	710.8	711.0	711.0	710.6	711.0	711.0	710.8	710.8	710.8	711.0
7°	709.1	709.2	709.2	709.2	708.9	709.2	709.2	709.2	709.1	709.2	709.2
7.5°	707.2	707.2	707.3	707.3	707.0	707.3	707.3	707.2	707.2	707.2	707.3
8°	705.2	705.3	705.4	705.4	705.0	705.4	705.4	705.3	705.2	705.3	705.4
8.5°	703.0	703.1	703.2	703.2	702.9	703.2	703.2	703.1	703.0	703.1	703.2
9°	700.7	700.8	700.9	701.0	700.7	701.0	700.9	700.8	700.7	700.8	700.9
9.5°	698.3	698.4	698.5	698.6	698.3	698.6	698.5	698.4	698.3	698.4	698.5
10°	695.8	695.8	695.9	696.1	695.8	696.1	695.9	695.8	695.8	695.8	695.9
10.5°	693.1	693.1	693.3	693.5	693.1	693.5	693.3	693.1	693.1	693.1	693.3
11°	690.3	690.3	690.6	690.8	690.3	690.8	690.6	690.3	690.3	690.3	690.6
11.5°	687.3	687.4	687.7	687.9	687.5	687.9	687.7	687.4	687.3	687.4	687.7
12°	684.3	684.4	684.6	684.9	684.5	684.9	684.6	684.4	684.3	684.4	684.6
12.5°	681.2	681.3	681.4	681.6	681.4	681.6	681.4	681.3	681.2	681.3	681.4
13°	677.9	678.0	678.2	678.4	678.2	678.4	678.2	678.0	677.9	678.0	678.2
13.5°	674.6	674.7	674.9	675.1	674.8	675.1	674.9	674.7	674.6	674.7	674.9
14°	671.1	671.3	671.5	671.6	671.4	671.6	671.5	671.3	671.1	671.3	671.5
14.5°	667.6	667.7	667.9	668.1	667.9	668.1	667.9	667.7	667.6	667.7	667.9
15°	663.8	664.0	664.2	664.5	664.1	664.5	664.2	664.0	663.8	664.0	664.2
15.5°	660.1	660.2	660.4	660.6	660.3	660.6	660.4	660.2	660.1	660.2	660.4
16°	656.2	656.4	656.6	656.8	656.5	656.8	656.6	656.4	656.2	656.4	656.6
16.5°	652.3	652.4	652.6	652.9	652.5	652.9	652.6	652.4	652.3	652.4	652.6
17°	648.3	648.4	648.6	648.8	648.5	648.8	648.6	648.4	648.3	648.4	648.6
17.5°	644.3	644.3	644.5	644.7	644.4	644.7	644.5	644.3	644.3	644.3	644.5
18°	640.0	640.2	640.3	640.4	640.1	640.4	640.3	640.2	640.0	640.2	640.3
18.5°	635.8	636.0	636.1	636.2	635.9	636.2	636.1	636.0	635.8	636.0	636.1
19°	631.5	631.7	631.8	631.8	631.6	631.8	631.8	631.7	631.5	631.7	631.8
19.5°	627.3	627.4	627.5	627.6	627.3	627.6	627.5	627.4	627.3	627.4	627.5
20°	622.9	623.0	623.1	623.1	622.7	623.1	623.1	623.0	622.9	623.0	623.1
20.5°	618.6	618.6	618.6	618.6	618.3	618.6	618.6	618.6	618.6	618.6	618.6
21°	613.9	614.0	614.1	614.0	613.7	614.0	614.1	614.0	613.9	614.0	614.1



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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°	600.5	600.5	600.3	600.2	599.8	600.2	600.3	600.5	600.5	600.5	600.3
23°	595.8	595.8	595.7	595.6	595.2	595.6	595.7	595.8	595.8	595.8	595.7
23.5°	591.1	591.1	591.0	590.8	590.5	590.8	591.0	591.1	591.1	591.1	591.0
24°	586.5	586.5	586.4	586.1	585.6	586.1	586.4	586.5	586.5	586.5	586.4
24.5°	581.8	581.7	581.6	581.3	580.9	581.3	581.6	581.7	581.8	581.7	581.6
25°	576.9	576.9	576.8	576.5	576.0	576.5	576.8	576.9	576.9	576.9	576.8
25.5°	572.2	572.2	572.1	571.7	571.2	571.7	572.1	572.2	572.2	572.2	572.1
26°	567.4	567.4	567.3	567.0	566.5	567.0	567.3	567.4	567.4	567.4	567.3
26.5°	562.5	562.5	562.4	562.0	561.6	562.0	562.4	562.5	562.5	562.5	562.4
27°	557.7	557.8	557.7	557.3	556.7	557.3	557.7	557.8	557.7	557.8	557.7
27.5°	552.9	552.9	552.8	552.5	552.0	552.5	552.8	552.9	552.9	552.9	552.8
28°	547.9	548.2	548.0	547.7	547.3	547.7	548.0	548.2	547.9	548.2	548.0
28.5°	543.3	543.5	543.4	543.1	542.7	543.1	543.4	543.5	543.3	543.5	543.4
29°	538.6	538.8	538.7	538.5	538.0	538.5	538.7	538.8	538.6	538.8	538.7
29.5°	534.1	534.2	534.2	533.9	533.4	533.9	534.2	534.2	534.1	534.2	534.2
30°	529.6	529.6	529.6	529.2	528.8	529.2	529.6	529.6	529.6	529.6	529.6
30.5°	525.1	525.2	525.0	524.6	524.1	524.6	525.0	525.2	525.1	525.2	525.0
31°	520.6	520.6	520.4	519.9	519.3	519.9	520.4	520.6	520.6	520.6	520.4
31.5°	515.8	515.8	515.4	514.9	514.1	514.9	515.4	515.8	515.8	515.8	515.4
32°	511.0	510.7	509.9	509.0	507.9	509.0	509.9	510.7	511.0	510.7	509.9
32.5°	505.7	505.0	503.8	502.3	500.9	502.3	503.8	505.0	505.7	505.0	503.8
33°	499.7	498.9	496.9	495.1	493.7	495.1	496.9	498.9	499.7	498.9	496.9
33.5°	492.7	492.0	489.3	487.5	486.0	487.5	489.3	492.0	492.7	492.0	489.3
34°	484.9	484.6	481.4	479.3	478.0	479.3	481.4	484.6	484.9	484.6	481.4
34.5°	476.3	475.8	472.9	470.6	469.4	470.6	472.9	475.8	476.3	475.8	472.9
35°	467.2	466.3	463.9	461.4	460.3	461.4	463.9	466.3	467.2	466.3	463.9
35.5°	457.5	456.4	454.4	451.8	450.5	451.8	454.4	456.4	457.5	456.4	454.4
36°	447.3	445.8	444.6	442.0	440.3	442.0	444.6	445.8	447.3	445.8	444.6
36.5°	436.5	435.0	434.1	431.6	429.6	431.6	434.1	435.0	436.5	435.0	434.1
37°	425.2	423.8	423.2	420.9	418.8	420.9	423.2	423.8	425.2	423.8	423.2
37.5°	413.4	412.4	411.8	409.9	407.8	409.9	411.8	412.4	413.4	412.4	411.8
38°	401.2	400.6	400.0	398.7	397.0	398.7	400.0	400.6	401.2	400.6	400.0
38.5°	388.7	388.7	387.6	387.2	385.7	387.2	387.6	388.7	388.7	388.7	387.6
39°	376.2	376.4	375.4	375.3	374.7	375.3	375.4	376.4	376.2	376.4	375.4
39.5°	363.5	363.8	362.8	363.1	363.0	363.1	362.8	363.8	363.5	363.8	362.8
40°	350.7	351.3	350.3	350.9	351.1	350.9	350.3	351.3	350.7	351.3	350.3
40.5°	337.6	338.5	337.9	338.8	339.0	338.8	337.9	338.5	337.6	338.5	337.9
41°	324.9	325.9	325.7	326.4	327.2	326.4	325.7	325.9	324.9	325.9	325.7
41.5°	312.2	313.0	313.6	314.5	314.8	314.5	313.6	313.0	312.2	313.0	313.6
42°	299.6	300.2	301.5	302.3	303.1	302.3	301.5	300.2	299.6	300.2	301.5
42.5°	287.1	287.7	289.5	290.5	291.2	290.5	289.5	287.7	287.1	287.7	289.5
43°	274.5	275.4	277.6	278.6	279.3	278.6	277.6	275.4	274.5	275.4	277.6
43.5°	262.2	262.9	265.7	266.7	267.3	266.7	265.7	262.9	262.2	262.9	265.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	226.5	227.7	230.8	232.6	233.3	232.6	230.8	227.7	226.5	227.7	230.8
45.5°	215.0	216.5	219.8	221.7	222.5	221.7	219.8	216.5	215.0	216.5	219.8
46°	204.0	205.8	208.9	211.2	212.1	211.2	208.9	205.8	204.0	205.8	208.9
46.5°	193.4	195.3	198.3	200.9	201.9	200.9	198.3	195.3	193.4	195.3	198.3
47°	183.0	185.2	188.1	190.9	192.0	190.9	188.1	185.2	183.0	185.2	188.1
47.5°	173.2	175.2	178.3	181.2	182.3	181.2	178.3	175.2	173.2	175.2	178.3
48°	163.8	165.9	169.0	172.0	173.2	172.0	169.0	165.9	163.8	165.9	169.0
48.5°	155.1	156.9	160.0	163.1	164.4	163.1	160.0	156.9	155.1	156.9	160.0
49°	146.7	148.4	151.4	154.7	155.9	154.7	151.4	148.4	146.7	148.4	151.4
49.5°	138.9	140.3	143.4	146.5	147.9	146.5	143.4	140.3	138.9	140.3	143.4
50°	131.6	132.7	135.9	139.0	140.2	139.0	135.9	132.7	131.6	132.7	135.9
50.5°	124.9	125.6	128.8	131.7	133.0	131.7	128.8	125.6	124.9	125.6	128.8
51°	118.7	119.3	122.2	124.8	126.2	124.8	122.2	119.3	118.7	119.3	122.2
51.5°	112.9	113.4	116.1	118.5	119.8	118.5	116.1	113.4	112.9	113.4	116.1
52°	107.6	108.1	110.6	112.6	113.7	112.6	110.6	108.1	107.6	108.1	110.6
52.5°	102.7	103.1	105.3	107.0	108.0	107.0	105.3	103.1	102.7	103.1	105.3
53°	98.3	99.0	100.6	101.9	102.7	101.9	100.6	99.0	98.3	99.0	100.6
53.5°	94.8	95.2	96.2	97.3	98.0	97.3	96.2	95.2	94.8	95.2	96.2
54°	91.4	91.5	92.3	93.1	93.6	93.1	92.3	91.5	91.4	91.5	92.3
54.5°	88.4	88.4	88.8	89.4	90.0	89.4	88.8	88.4	88.4	88.4	88.8
55°	85.4	85.5	86.0	86.4	86.8	86.4	86.0	85.5	85.4	85.5	86.0
55.5°	82.6	83.1	83.5	83.8	84.5	83.8	83.5	83.1	82.6	83.1	83.5
56°	80.7	80.9	81.2	81.4	82.2	81.4	81.2	80.9	80.7	80.9	81.2
56.5°	79.0	79.0	79.0	79.2	79.9	79.2	79.0	79.0	79.0	79.0	79.0
57°	77.5	77.5	77.3	77.2	77.7	77.2	77.3	77.5	77.5	77.5	77.3
57.5°	76.0	75.9	75.7	75.5	75.4	75.5	75.7	75.9	76.0	75.9	75.7
58°	74.5	74.4	74.2	73.9	73.7	73.9	74.2	74.4	74.5	74.4	74.2
58.5°	72.8	72.7	72.5	72.3	72.2	72.3	72.5	72.7	72.8	72.7	72.5
59°	71.1	71.0	70.9	70.7	70.5	70.7	70.9	71.0	71.1	71.0	70.9
59.5°	69.4	69.4	69.2	69.1	69.0	69.1	69.2	69.4	69.4	69.4	69.2
60°	67.6	67.6	67.5	67.4	67.3	67.4	67.5	67.6	67.6	67.6	67.5
60.5°	65.9	65.9	65.8	65.7	65.6	65.7	65.8	65.9	65.9	65.9	65.8
61°	64.2	64.2	64.1	64.0	63.9	64.0	64.1	64.2	64.2	64.2	64.1
61.5°	62.6	62.6	62.4	62.3	62.2	62.3	62.4	62.6	62.6	62.6	62.4
62°	60.9	60.9	60.8	60.7	60.6	60.7	60.8	60.9	60.9	60.9	60.8
62.5°	59.2	59.2	59.1	59.0	58.9	59.0	59.1	59.2	59.2	59.2	59.1
63°	57.7	57.6	57.6	57.4	57.4	57.4	57.6	57.6	57.7	57.6	57.6
63.5°	56.0	56.0	55.9	55.8	55.8	55.8	55.9	56.0	56.0	56.0	55.9
64°	54.5	54.5	54.4	54.3	54.2	54.3	54.4	54.5	54.5	54.5	54.4
64.5°	52.9	52.9	52.8	52.7	52.7	52.7	52.8	52.9	52.9	52.9	52.8
65°	51.4	51.5	51.4	51.3	51.2	51.3	51.4	51.5	51.4	51.5	51.4
65.5°	49.8	49.9	49.9	49.8	49.7	49.8	49.9	49.9	49.8	49.9	49.9
66°	48.4	48.5	48.4	48.3	48.3	48.3	48.4	48.5	48.4	48.5	48.4



TEST NUMBER: P775762

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	43.9	44.1	44.1	44.0	44.0	44.0	44.1	44.1	43.9	44.1	44.1
68°	42.5	42.7	42.8	42.7	42.7	42.7	42.8	42.7	42.5	42.7	42.8
68.5°	41.1	41.3	41.4	41.3	41.3	41.3	41.4	41.3	41.1	41.3	41.4
69°	39.7	40.0	40.1	40.1	40.0	40.1	40.1	40.0	39.7	40.0	40.1
69.5°	38.2	38.6	38.8	38.7	38.7	38.7	38.8	38.6	38.2	38.6	38.8
70°	36.9	37.2	37.5	37.5	37.4	37.5	37.5	37.2	36.9	37.2	37.5
70.5°	35.5	35.9	36.2	36.1	36.1	36.1	36.2	35.9	35.5	35.9	36.2
71°	34.3	34.7	35.0	35.0	34.9	35.0	35.0	34.7	34.3	34.7	35.0
71.5°	32.9	33.3	33.8	33.8	33.7	33.8	33.8	33.3	32.9	33.3	33.8
72°	31.7	32.1	32.5	32.5	32.4	32.5	32.5	32.1	31.7	32.1	32.5
72.5°	30.4	30.9	31.4	31.3	31.3	31.3	31.4	30.9	30.4	30.9	31.4
73°	29.1	29.6	30.1	30.1	30.0	30.1	30.1	29.6	29.1	29.6	30.1
73.5°	27.9	28.4	29.0	29.0	28.9	29.0	29.0	28.4	27.9	28.4	29.0
74°	26.7	27.1	27.8	27.9	27.8	27.9	27.8	27.1	26.7	27.1	27.8
74.5°	25.5	26.0	26.6	26.7	26.6	26.7	26.6	26.0	25.5	26.0	26.6
75°	24.3	24.8	25.5	25.6	25.6	25.6	25.5	24.8	24.3	24.8	25.5
75.5°	23.2	23.6	24.4	24.4	24.4	24.4	24.4	23.6	23.2	23.6	24.4
76°	22.1	22.5	23.3	23.4	23.4	23.4	23.3	22.5	22.1	22.5	23.3
76.5°	20.9	21.3	22.2	22.4	22.3	22.4	22.2	21.3	20.9	21.3	22.2
77°	19.8	20.3	21.1	21.3	21.2	21.3	21.1	20.3	19.8	20.3	21.1
77.5°	18.6	19.2	20.1	20.3	20.2	20.3	20.1	19.2	18.6	19.2	20.1
78°	17.6	18.1	19.0	19.3	19.2	19.3	19.0	18.1	17.6	18.1	19.0
78.5°	16.6	17.0	17.9	18.2	18.2	18.2	17.9	17.0	16.6	17.0	17.9
79°	15.5	15.9	16.9	17.2	17.2	17.2	16.9	15.9	15.5	15.9	16.9
79.5°	14.5	14.9	15.9	16.3	16.3	16.3	15.9	14.9	14.5	14.9	15.9
80°	13.5	13.9	14.9	15.2	15.2	15.2	14.9	13.9	13.5	13.9	14.9
80.5°	12.5	12.9	14.0	14.3	14.3	14.3	14.0	12.9	12.5	12.9	14.0
81°	11.5	11.9	12.9	13.4	13.4	13.4	12.9	11.9	11.5	11.9	12.9
81.5°	10.6	10.9	12.0	12.4	12.4	12.4	12.0	10.9	10.6	10.9	12.0
82°	9.6	9.9	11.1	11.5	11.5	11.5	11.1	9.9	9.6	9.9	11.1
82.5°	8.6	9.0	10.1	10.7	10.7	10.7	10.1	9.0	8.6	9.0	10.1
83°	7.7	8.1	9.2	9.7	9.7	9.7	9.2	8.1	7.7	8.1	9.2
83.5°	6.7	7.1	8.4	8.9	8.8	8.9	8.4	7.1	6.7	7.1	8.4
84°	5.9	6.2	7.6	8.0	8.0	8.0	7.6	6.2	5.9	6.2	7.6
84.5°	5.0	5.3	6.7	7.1	7.1	7.1	6.7	5.3	5.0	5.3	6.7
85°	4.1	4.5	5.9	6.3	6.3	6.3	5.9	4.5	4.1	4.5	5.9
85.5°	3.3	3.7	5.1	5.5	5.5	5.5	5.1	3.7	3.3	3.7	5.1
86°	2.7	3.0	4.3	4.7	4.7	4.7	4.3	3.0	2.7	3.0	4.3
86.5°	2.2	2.5	3.5	3.8	3.9	3.8	3.5	2.5	2.2	2.5	3.5
87°	1.7	2.0	2.9	3.1	3.1	3.1	2.9	2.0	1.7	2.0	2.9
87.5°	1.2	1.4	2.2	2.4	2.4	2.4	2.2	1.4	1.2	1.4	2.2
88°	0.8	1.0	1.6	1.7	1.8	1.7	1.6	1.0	0.8	1.0	1.6
88.5°	0.4	0.6	1.0	1.2	1.3	1.2	1.0	0.6	0.4	0.6	1.0



TEST NUMBER: P775762

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1



TEST NUMBER: P775762

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	721.8	721.8	721.8	721.8	721.8	721.8
0.5°	721.7	721.4	721.7	721.7	721.8	721.7
1°	721.5	721.2	721.5	721.6	721.6	721.5
1.5°	721.2	720.9	721.2	721.2	721.3	721.2
2°	720.8	720.4	720.8	720.8	720.8	720.8
2.5°	720.2	719.9	720.2	720.3	720.2	720.2
3°	719.5	719.1	719.5	719.5	719.5	719.4
3.5°	718.7	718.3	718.7	718.7	718.6	718.6
4°	717.7	717.4	717.7	717.7	717.7	717.7
4.5°	716.6	716.2	716.6	716.6	716.6	716.5
5°	715.4	715.0	715.4	715.4	715.4	715.3
5.5°	714.1	713.6	714.1	714.1	714.1	714.0
6°	712.5	712.2	712.5	712.5	712.5	712.5
6.5°	711.0	710.6	711.0	711.0	710.8	710.8
7°	709.2	708.9	709.2	709.2	709.2	709.1
7.5°	707.3	707.0	707.3	707.3	707.2	707.2
8°	705.4	705.0	705.4	705.4	705.3	705.2
8.5°	703.2	702.9	703.2	703.2	703.1	703.0
9°	701.0	700.7	701.0	700.9	700.8	700.7
9.5°	698.6	698.3	698.6	698.5	698.4	698.3
10°	696.1	695.8	696.1	695.9	695.8	695.8
10.5°	693.5	693.1	693.5	693.3	693.1	693.1
11°	690.8	690.3	690.8	690.6	690.3	690.3
11.5°	687.9	687.5	687.9	687.7	687.4	687.3
12°	684.9	684.5	684.9	684.6	684.4	684.3
12.5°	681.6	681.4	681.6	681.4	681.3	681.2
13°	678.4	678.2	678.4	678.2	678.0	677.9
13.5°	675.1	674.8	675.1	674.9	674.7	674.6
14°	671.6	671.4	671.6	671.5	671.3	671.1
14.5°	668.1	667.9	668.1	667.9	667.7	667.6
15°	664.5	664.1	664.5	664.2	664.0	663.8
15.5°	660.6	660.3	660.6	660.4	660.2	660.1
16°	656.8	656.5	656.8	656.6	656.4	656.2
16.5°	652.9	652.5	652.9	652.6	652.4	652.3
17°	648.8	648.5	648.8	648.6	648.4	648.3
17.5°	644.7	644.4	644.7	644.5	644.3	644.3
18°	640.4	640.1	640.4	640.3	640.2	640.0
18.5°	636.2	635.9	636.2	636.1	636.0	635.8
19°	631.8	631.6	631.8	631.8	631.7	631.5
19.5°	627.6	627.3	627.6	627.5	627.4	627.3
20°	623.1	622.7	623.1	623.1	623.0	622.9
20.5°	618.6	618.3	618.6	618.6	618.6	618.6
21°	614.0	613.7	614.0	614.1	614.0	613.9

TEST NUMBER: P775762

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	600.2	599.8	600.2	600.3	600.5	600.5
23°	595.6	595.2	595.6	595.7	595.8	595.8
23.5°	590.8	590.5	590.8	591.0	591.1	591.1
24°	586.1	585.6	586.1	586.4	586.5	586.5
24.5°	581.3	580.9	581.3	581.6	581.7	581.8
25°	576.5	576.0	576.5	576.8	576.9	576.9
25.5°	571.7	571.2	571.7	572.1	572.2	572.2
26°	567.0	566.5	567.0	567.3	567.4	567.4
26.5°	562.0	561.6	562.0	562.4	562.5	562.5
27°	557.3	556.7	557.3	557.7	557.8	557.7
27.5°	552.5	552.0	552.5	552.8	552.9	552.9
28°	547.7	547.3	547.7	548.0	548.2	547.9
28.5°	543.1	542.7	543.1	543.4	543.5	543.3
29°	538.5	538.0	538.5	538.7	538.8	538.6
29.5°	533.9	533.4	533.9	534.2	534.2	534.1
30°	529.2	528.8	529.2	529.6	529.6	529.6
30.5°	524.6	524.1	524.6	525.0	525.2	525.1
31°	519.9	519.3	519.9	520.4	520.6	520.6
31.5°	514.9	514.1	514.9	515.4	515.8	515.8
32°	509.0	507.9	509.0	509.9	510.7	511.0
32.5°	502.3	500.9	502.3	503.8	505.0	505.7
33°	495.1	493.7	495.1	496.9	498.9	499.7
33.5°	487.5	486.0	487.5	489.3	492.0	492.7
34°	479.3	478.0	479.3	481.4	484.6	484.9
34.5°	470.6	469.4	470.6	472.9	475.8	476.3
35°	461.4	460.3	461.4	463.9	466.3	467.2
35.5°	451.8	450.5	451.8	454.4	456.4	457.5
36°	442.0	440.3	442.0	444.6	445.8	447.3
36.5°	431.6	429.6	431.6	434.1	435.0	436.5
37°	420.9	418.8	420.9	423.2	423.8	425.2
37.5°	409.9	407.8	409.9	411.8	412.4	413.4
38°	398.7	397.0	398.7	400.0	400.6	401.2
38.5°	387.2	385.7	387.2	387.6	388.7	388.7
39°	375.3	374.7	375.3	375.4	376.4	376.2
39.5°	363.1	363.0	363.1	362.8	363.8	363.5
40°	350.9	351.1	350.9	350.3	351.3	350.7
40.5°	338.8	339.0	338.8	337.9	338.5	337.6
41°	326.4	327.2	326.4	325.7	325.9	324.9
41.5°	314.5	314.8	314.5	313.6	313.0	312.2
42°	302.3	303.1	302.3	301.5	300.2	299.6
42.5°	290.5	291.2	290.5	289.5	287.7	287.1
43°	278.6	279.3	278.6	277.6	275.4	274.5
43.5°	266.7	267.3	266.7	265.7	262.9	262.2



TEST NUMBER: P775762

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	232.6	233.3	232.6	230.8	227.7	226.5
45.5°	221.7	222.5	221.7	219.8	216.5	215.0
46°	211.2	212.1	211.2	208.9	205.8	204.0
46.5°	200.9	201.9	200.9	198.3	195.3	193.4
47°	190.9	192.0	190.9	188.1	185.2	183.0
47.5°	181.2	182.3	181.2	178.3	175.2	173.2
48°	172.0	173.2	172.0	169.0	165.9	163.8
48.5°	163.1	164.4	163.1	160.0	156.9	155.1
49°	154.7	155.9	154.7	151.4	148.4	146.7
49.5°	146.5	147.9	146.5	143.4	140.3	138.9
50°	139.0	140.2	139.0	135.9	132.7	131.6
50.5°	131.7	133.0	131.7	128.8	125.6	124.9
51°	124.8	126.2	124.8	122.2	119.3	118.7
51.5°	118.5	119.8	118.5	116.1	113.4	112.9
52°	112.6	113.7	112.6	110.6	108.1	107.6
52.5°	107.0	108.0	107.0	105.3	103.1	102.7
53°	101.9	102.7	101.9	100.6	99.0	98.3
53.5°	97.3	98.0	97.3	96.2	95.2	94.8
54°	93.1	93.6	93.1	92.3	91.5	91.4
54.5°	89.4	90.0	89.4	88.8	88.4	88.4
55°	86.4	86.8	86.4	86.0	85.5	85.4
55.5°	83.8	84.5	83.8	83.5	83.1	82.6
56°	81.4	82.2	81.4	81.2	80.9	80.7
56.5°	79.2	79.9	79.2	79.0	79.0	79.0
57°	77.2	77.7	77.2	77.3	77.5	77.5
57.5°	75.5	75.4	75.5	75.7	75.9	76.0
58°	73.9	73.7	73.9	74.2	74.4	74.5
58.5°	72.3	72.2	72.3	72.5	72.7	72.8
59°	70.7	70.5	70.7	70.9	71.0	71.1
59.5°	69.1	69.0	69.1	69.2	69.4	69.4
60°	67.4	67.3	67.4	67.5	67.6	67.6
60.5°	65.7	65.6	65.7	65.8	65.9	65.9
61°	64.0	63.9	64.0	64.1	64.2	64.2
61.5°	62.3	62.2	62.3	62.4	62.6	62.6
62°	60.7	60.6	60.7	60.8	60.9	60.9
62.5°	59.0	58.9	59.0	59.1	59.2	59.2
63°	57.4	57.4	57.4	57.6	57.6	57.7
63.5°	55.8	55.8	55.8	55.9	56.0	56.0
64°	54.3	54.2	54.3	54.4	54.5	54.5
64.5°	52.7	52.7	52.7	52.8	52.9	52.9
65°	51.3	51.2	51.3	51.4	51.5	51.4
65.5°	49.8	49.7	49.8	49.9	49.9	49.8
66°	48.3	48.3	48.3	48.4	48.5	48.4



TEST NUMBER: P775762

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	44.0	44.0	44.0	44.1	44.1	43.9
68°	42.7	42.7	42.7	42.8	42.7	42.5
68.5°	41.3	41.3	41.3	41.4	41.3	41.1
69°	40.1	40.0	40.1	40.1	40.0	39.7
69.5°	38.7	38.7	38.7	38.8	38.6	38.2
70°	37.5	37.4	37.5	37.5	37.2	36.9
70.5°	36.1	36.1	36.1	36.2	35.9	35.5
71°	35.0	34.9	35.0	35.0	34.7	34.3
71.5°	33.8	33.7	33.8	33.8	33.3	32.9
72°	32.5	32.4	32.5	32.5	32.1	31.7
72.5°	31.3	31.3	31.3	31.4	30.9	30.4
73°	30.1	30.0	30.1	30.1	29.6	29.1
73.5°	29.0	28.9	29.0	29.0	28.4	27.9
74°	27.9	27.8	27.9	27.8	27.1	26.7
74.5°	26.7	26.6	26.7	26.6	26.0	25.5
75°	25.6	25.6	25.6	25.5	24.8	24.3
75.5°	24.4	24.4	24.4	24.4	23.6	23.2
76°	23.4	23.4	23.4	23.3	22.5	22.1
76.5°	22.4	22.3	22.4	22.2	21.3	20.9
77°	21.3	21.2	21.3	21.1	20.3	19.8
77.5°	20.3	20.2	20.3	20.1	19.2	18.6
78°	19.3	19.2	19.3	19.0	18.1	17.6
78.5°	18.2	18.2	18.2	17.9	17.0	16.6
79°	17.2	17.2	17.2	16.9	15.9	15.5
79.5°	16.3	16.3	16.3	15.9	14.9	14.5
80°	15.2	15.2	15.2	14.9	13.9	13.5
80.5°	14.3	14.3	14.3	14.0	12.9	12.5
81°	13.4	13.4	13.4	12.9	11.9	11.5
81.5°	12.4	12.4	12.4	12.0	10.9	10.6
82°	11.5	11.5	11.5	11.1	9.9	9.6
82.5°	10.7	10.7	10.7	10.1	9.0	8.6
83°	9.7	9.7	9.7	9.2	8.1	7.7
83.5°	8.9	8.8	8.9	8.4	7.1	6.7
84°	8.0	8.0	8.0	7.6	6.2	5.9
84.5°	7.1	7.1	7.1	6.7	5.3	5.0
85°	6.3	6.3	6.3	5.9	4.5	4.1
85.5°	5.5	5.5	5.5	5.1	3.7	3.3
86°	4.7	4.7	4.7	4.3	3.0	2.7
86.5°	3.8	3.9	3.8	3.5	2.5	2.2
87°	3.1	3.1	3.1	2.9	2.0	1.7
87.5°	2.4	2.4	2.4	2.2	1.4	1.2
88°	1.7	1.8	1.7	1.6	1.0	0.8
88.5°	1.2	1.3	1.2	1.0	0.6	0.4



TEST NUMBER: P775762
CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.3	0.2	0.1	0.1	0.0



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

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21.5°	609.5	609.6	609.5	609.5	609.2	609.5	609.5	609.6	609.5	609.6	609.5
22°	605.0	605.0	605.0	604.8	604.5	604.8	605.0	605.0	605.0	605.0	605.0



44°	250.0	250.7	253.8	255.2	255.8	255.2	253.8	250.7	250.0	250.7	253.8
44.5°	238.0	239.1	242.1	243.8	244.4	243.8	242.1	239.1	238.0	239.1	242.1



66.5°	46.8	47.0	47.0	46.9	46.8	46.9	47.0	47.0	46.8	47.0	47.0
67°	45.4	45.6	45.6	45.5	45.4	45.5	45.6	45.6	45.4	45.6	45.6



89°	0.2	0.3	0.6	0.8	0.9	0.8	0.6	0.3	0.2	0.3	0.6
89.5°	0.1	0.1	0.3	0.5	0.6	0.5	0.3	0.1	0.1	0.1	0.3

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21.5°	609.5	609.2	609.5	609.5	609.6	609.5
22°	604.8	604.5	604.8	605.0	605.0	605.0



44°	255.2	255.8	255.2	253.8	250.7	250.0
44.5°	243.8	244.4	243.8	242.1	239.1	238.0

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66.5°	46.9	46.8	46.9	47.0	47.0	46.8
67°	45.5	45.4	45.5	45.6	45.6	45.4

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89°	0.8	0.9	0.8	0.6	0.3	0.2
89.5°	0.5	0.6	0.5	0.3	0.1	0.1

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(END OF REPORT)