

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: P775785

Luminaire Tested: HCDJBL510CSD-HCD6TRMW-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TRMW-1000lm-2700K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

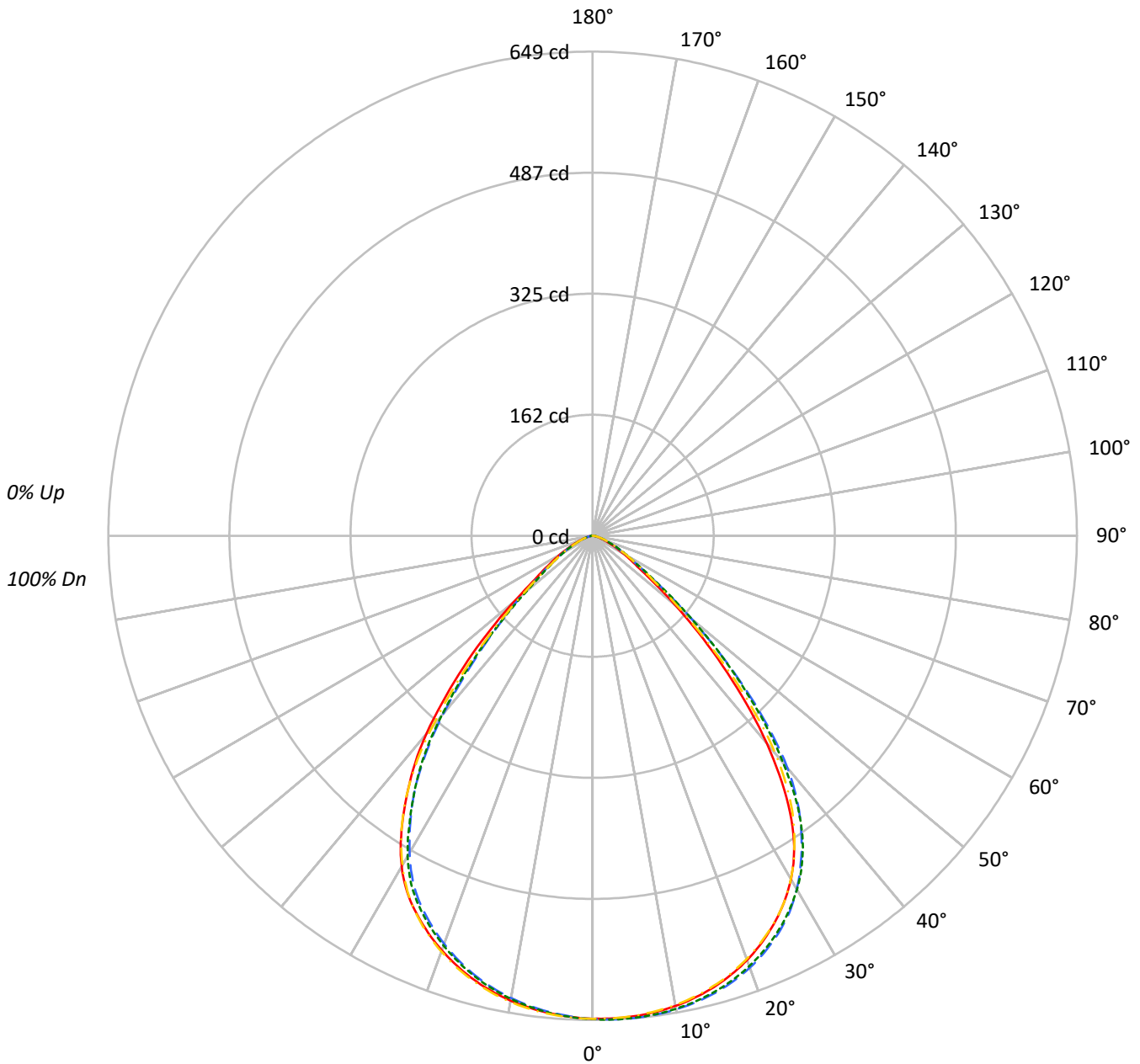
Lumens per Lamp: N/A
Luminaire Lumens: 1082.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35502	35502	35502	35502
5°	35566	35692	35373	35351
10°	35621	35838	35225	35092
15°	35562	35908	34955	34694
20°	35312	35808	34490	34093
25°	34744	35446	33788	33220
30°	33657	34657	32397	31391
35°	31079	32786	29286	27807
40°	25977	28410	24825	22564
45°	19126	21901	18335	15994
50°	12273	14763	11795	9867
55°	7340	8908	7713	6690
60°	5164	6052	5581	4857
65°	3528	4294	3930	3476
70°	2420	3109	2741	2516
75°	1673	2309	1949	1822
80°	1137	1768	1389	1294
85°	503	1384	818	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 22560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	5.7
10°-20°	175.3	16.2
20°-30°	260.2	24.0
30°-40°	279.2	25.8
40°-50°	187.1	17.3
50°-60°	76.2	7.0
60°-70°	30.4	2.8
70°-80°	10.4	1.0
80°-90°	1.9	0.2
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°	496.8	45.9
0°-40°	776.0	71.7
0°-60°	1039.3	96.1
0°-90°	1082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	648	648	648	648	648	
5°	646	649	643	642	646	61
15°	627	633	616	611	627	177
25°	574	586	559	549	574	264
35°	464	490	438	416	464	286
45°	247	282	236	206	247	190
55°	77	93	81	70	77	74
65°	27	33	30	27	27	28
75°	8	11	9	9	8	9
85°	1	2	1	1	1	1
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°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
0.5°	647.3	647.6	648.0	648.3	648.4	648.3	647.5	646.9	647.0	647.0	647.3
1°	647.5	647.9	648.3	648.6	648.7	648.5	647.5	646.8	646.7	646.6	646.8
1.5°	647.5	648.1	648.6	648.9	648.8	648.5	647.5	646.6	646.5	646.1	646.3
2°	647.4	648.2	648.8	649.1	648.9	648.6	647.4	646.4	646.1	645.6	645.7
2.5°	647.3	648.3	648.9	649.2	649.0	648.6	647.3	646.1	645.7	645.1	645.1
3°	647.2	648.3	649.0	649.3	649.0	648.5	647.1	645.8	645.3	644.5	644.5
3.5°	647.1	648.3	649.1	649.3	649.0	648.4	646.8	645.4	644.7	643.8	643.7
4°	646.9	648.3	649.0	649.3	648.9	648.2	646.5	644.9	644.1	643.1	643.0
4.5°	646.6	648.1	649.0	649.3	648.8	648.0	646.2	644.5	643.5	642.3	642.2
5°	646.3	648.0	648.9	649.1	648.6	647.7	645.7	643.9	642.8	641.5	641.3
5.5°	646.0	647.7	648.7	649.0	648.4	647.3	645.3	643.3	642.1	640.6	640.3
6°	645.5	647.5	648.5	648.8	648.1	646.9	644.8	642.6	641.3	639.7	639.4
6.5°	645.0	647.1	648.2	648.5	647.7	646.5	644.2	641.9	640.5	638.7	638.3
7°	644.5	646.8	647.9	648.2	647.4	646.0	643.5	641.1	639.6	637.6	637.2
7.5°	643.9	646.3	647.5	647.8	646.9	645.4	642.9	640.3	638.6	636.5	636.0
8°	643.2	645.8	647.1	647.4	646.4	644.8	642.1	639.4	637.6	635.3	634.8
8.5°	642.5	645.3	646.6	646.9	645.9	644.2	641.3	638.4	636.4	634.1	633.5
9°	641.6	644.7	646.1	646.4	645.2	643.4	640.5	637.4	635.3	632.8	632.0
9.5°	640.8	644.0	645.4	645.8	644.5	642.7	639.5	636.3	634.1	631.4	630.6
10°	639.9	643.3	644.8	645.1	643.8	641.9	638.5	635.2	632.8	629.9	629.2
10.5°	638.9	642.4	644.0	644.4	642.9	640.9	637.5	633.9	631.5	628.4	627.6
11°	637.8	641.6	643.2	643.6	642.1	640.0	636.4	632.7	630.0	626.9	625.9
11.5°	636.7	640.6	642.3	642.8	641.1	638.9	635.2	631.3	628.5	625.2	624.2
12°	635.4	639.6	641.4	641.8	640.2	637.7	633.9	629.9	626.9	623.4	622.4
12.5°	634.1	638.4	640.4	640.8	639.1	636.6	632.6	628.4	625.3	621.6	620.5
13°	632.8	637.3	639.4	639.8	637.9	635.3	631.2	626.8	623.5	619.7	618.6
13.5°	631.4	636.1	638.2	638.6	636.7	634.0	629.7	625.2	621.7	617.7	616.5
14°	629.9	634.9	637.0	637.4	635.5	632.6	628.2	623.4	619.9	615.6	614.3
14.5°	628.3	633.4	635.7	636.2	634.1	631.1	626.5	621.6	617.9	613.5	612.1
15°	626.6	632.0	634.3	634.9	632.7	629.6	624.8	619.7	615.9	611.3	609.8
15.5°	624.9	630.4	632.8	633.5	631.1	628.0	623.1	617.9	613.7	608.9	607.4
16°	623.0	628.8	631.3	631.9	629.5	626.3	621.3	615.8	611.6	606.5	604.9
16.5°	621.1	627.1	629.7	630.3	627.9	624.5	619.4	613.7	609.3	604.1	602.3
17°	619.0	625.4	628.1	628.7	626.1	622.7	617.4	611.5	606.9	601.4	599.7
17.5°	617.0	623.5	626.3	626.9	624.3	620.7	615.3	609.3	604.5	598.7	596.9
18°	614.8	621.5	624.4	625.1	622.3	618.7	613.1	606.9	601.9	596.0	594.1
18.5°	612.5	619.5	622.5	623.1	620.3	616.6	610.8	604.5	599.4	593.2	591.2
19°	610.2	617.3	620.4	621.1	618.2	614.4	608.5	601.9	596.7	590.4	588.2
19.5°	607.8	615.1	618.3	619.0	616.1	612.1	606.1	599.4	594.0	587.4	585.1
20°	605.3	612.8	616.1	616.9	613.8	609.7	603.6	596.7	591.2	584.4	582.0
20.5°	602.6	610.4	613.7	614.6	611.5	607.3	600.9	594.0	588.3	581.1	578.8
21°	599.8	607.9	611.4	612.2	609.0	604.7	598.2	591.2	585.3	578.0	575.4



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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°	591.1	599.7	603.4	604.6	601.1	596.5	589.7	582.2	576.0	567.7	564.9
23°	587.9	596.8	600.7	601.7	598.2	593.5	586.6	579.1	572.6	564.1	561.2
23.5°	584.6	593.8	597.7	598.8	595.3	590.4	583.4	575.9	569.3	560.5	557.4
24°	581.3	590.7	594.8	595.9	592.3	587.3	580.2	572.5	565.8	556.8	553.5
24.5°	577.9	587.4	591.5	592.8	589.2	584.2	577.0	569.1	562.2	553.0	549.6
25°	574.4	584.1	588.4	589.7	586.0	580.9	573.6	565.6	558.6	549.1	545.6
25.5°	570.7	580.8	585.0	586.3	582.7	577.5	570.1	562.1	554.9	545.0	541.4
26°	567.0	577.3	581.6	583.0	579.3	574.1	566.6	558.4	551.0	540.7	536.9
26.5°	563.1	573.6	577.8	579.5	575.8	570.4	562.8	554.6	547.0	536.0	532.1
27°	559.2	569.7	574.2	575.8	572.1	566.7	558.9	550.5	542.8	531.1	527.0
27.5°	554.8	565.8	570.2	572.0	568.3	562.9	554.8	546.2	538.4	526.1	521.6
28°	550.7	561.6	566.0	568.0	564.4	558.9	550.5	541.7	533.6	520.8	515.9
28.5°	546.0	557.2	561.4	563.8	560.6	554.8	546.1	537.1	528.6	515.3	510.0
29°	541.5	552.6	557.0	559.4	556.3	550.6	541.4	532.1	523.4	509.2	503.6
29.5°	536.6	547.9	552.2	554.8	552.0	546.1	536.6	527.0	517.8	503.1	497.1
30°	531.7	543.0	547.3	550.1	547.5	541.6	531.4	521.5	511.8	496.8	490.4
30.5°	526.2	537.8	542.0	545.2	543.0	536.6	526.1	515.7	505.7	490.2	483.6
31°	520.9	532.4	536.8	540.1	538.1	531.6	520.7	509.8	499.1	483.2	476.4
31.5°	515.0	526.9	531.2	534.6	533.0	526.4	514.9	503.6	492.3	476.0	469.5
32°	508.9	521.0	525.3	529.2	527.8	520.8	509.1	496.9	485.2	468.6	462.1
32.5°	502.4	514.9	519.4	523.3	522.2	515.2	502.9	490.1	477.7	460.9	454.8
33°	495.9	508.6	513.3	517.4	516.4	509.3	496.6	483.0	470.1	453.1	447.1
33.5°	488.7	502.3	507.1	511.2	510.3	503.0	490.2	475.8	462.1	445.0	439.6
34°	481.0	495.6	500.9	504.8	504.0	496.8	483.6	468.1	454.1	436.5	431.3
34.5°	472.8	489.0	494.4	498.4	497.1	489.7	476.8	460.1	446.0	428.1	423.4
35°	464.4	481.7	487.7	491.5	489.9	482.8	469.6	452.2	437.6	419.5	414.8
35.5°	455.7	474.5	480.9	484.6	482.5	475.5	462.3	444.5	429.5	410.7	406.0
36°	446.3	466.8	474.1	477.5	474.6	468.1	454.7	436.1	421.1	401.7	396.6
36.5°	436.6	459.2	466.6	470.3	466.1	460.0	446.7	428.1	412.7	392.5	387.2
37°	426.8	450.9	459.2	462.6	457.3	451.7	438.2	419.6	403.9	383.2	377.1
37.5°	416.6	442.4	451.1	454.5	448.0	442.8	429.5	411.5	395.2	374.0	366.8
38°	406.2	433.3	443.1	446.3	438.2	434.0	420.5	402.6	386.3	363.8	356.4
38.5°	395.6	424.1	434.4	437.5	428.3	424.1	411.2	394.1	377.2	353.5	345.7
39°	385.0	414.3	425.3	428.5	418.3	414.1	401.5	384.7	367.7	342.9	334.1
39.5°	374.1	403.8	415.7	418.9	407.8	403.5	391.4	375.4	357.5	332.4	322.6
40°	363.0	392.7	405.9	408.7	397.0	392.4	380.9	365.0	346.9	320.8	310.7
40.5°	351.8	381.3	395.4	397.9	386.5	380.7	369.9	354.6	335.8	309.5	298.6
41°	340.3	369.6	384.3	386.6	375.6	369.0	358.6	343.4	324.3	298.4	286.7
41.5°	328.5	357.8	373.3	374.9	364.7	357.2	346.7	332.2	313.0	287.3	274.6
42°	316.5	345.8	361.6	362.8	353.3	345.1	334.2	320.1	301.4	275.7	263.3
42.5°	304.4	334.1	349.8	350.8	342.1	332.6	322.2	308.4	290.5	264.8	252.3
43°	292.4	322.4	337.3	339.0	330.5	320.9	310.1	296.3	279.6	253.6	241.5
43.5°	280.7	310.8	325.1	326.9	318.3	308.5	298.1	284.4	268.8	242.9	230.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	246.7	275.5	287.6	291.0	282.5	272.1	261.5	249.9	236.5	211.1	200.7
45.5°	235.8	263.7	274.8	279.2	270.6	260.3	249.6	238.6	225.8	201.1	191.4
46°	224.7	252.1	262.1	267.5	259.5	248.6	237.5	227.4	215.3	191.4	182.4
46.5°	213.6	240.6	250.0	255.9	248.3	237.4	226.0	216.2	204.8	182.2	173.5
47°	202.6	228.8	237.8	244.0	237.2	226.4	214.4	204.8	194.4	172.8	165.2
47.5°	192.1	217.6	226.0	232.3	225.9	215.7	203.5	193.9	184.5	164.3	157.2
48°	181.8	206.4	214.4	221.0	214.9	205.4	192.7	183.4	174.8	155.9	149.6
48.5°	171.7	195.4	203.5	209.8	204.2	195.4	182.7	173.2	165.4	147.9	142.0
49°	162.1	184.7	192.6	198.6	193.6	185.4	172.8	163.3	155.8	140.1	135.0
49.5°	153.0	174.1	182.2	188.1	183.2	175.6	163.5	153.9	146.8	132.7	128.2
50°	143.9	163.9	171.7	177.5	173.1	166.2	154.3	145.1	138.3	125.7	121.7
50.5°	135.3	154.0	162.0	167.2	163.2	157.0	145.9	136.7	129.9	119.1	115.5
51°	127.0	144.4	152.5	157.0	154.0	148.2	137.8	128.8	122.1	112.9	109.6
51.5°	119.1	135.2	143.4	147.7	144.9	139.8	130.3	121.5	114.9	106.9	103.9
52°	111.6	126.6	134.6	138.6	136.4	131.4	123.0	114.5	108.4	101.2	98.6
52.5°	104.5	118.6	126.3	129.8	127.8	123.5	116.2	108.1	102.3	95.9	93.6
53°	97.8	111.1	118.4	121.4	119.8	116.3	109.7	102.3	97.1	91.1	89.3
53.5°	91.8	104.1	110.9	113.8	112.2	109.4	103.7	96.9	92.3	86.9	84.9
54°	86.2	97.5	104.0	106.6	105.0	102.9	98.2	92.0	88.4	82.6	80.6
54.5°	81.3	91.6	97.2	99.9	98.3	96.9	93.0	88.0	84.5	78.4	76.3
55°	76.8	86.2	91.0	93.7	93.2	92.0	88.6	84.1	80.7	74.2	71.9
55.5°	72.6	81.3	85.4	88.1	88.2	87.2	84.3	80.1	76.8	70.6	68.4
56°	68.9	76.6	80.2	82.9	83.1	82.4	79.9	76.1	72.9	67.3	65.1
56.5°	65.5	72.3	75.6	78.1	78.0	77.6	75.5	72.1	69.6	64.1	62.3
57°	62.7	68.5	71.4	73.7	73.0	72.8	71.2	68.8	66.4	61.6	59.8
57.5°	60.0	65.1	67.6	69.7	69.3	69.2	67.7	65.5	63.5	59.0	57.3
58°	57.4	62.3	64.4	66.1	65.8	65.7	64.5	62.8	61.0	56.5	54.8
58.5°	54.8	59.6	61.7	63.2	63.1	63.0	61.9	60.3	58.4	54.0	52.2
59°	52.1	57.0	59.1	60.6	60.4	60.4	59.3	57.7	55.9	51.5	49.8
59.5°	49.6	54.3	56.4	58.0	57.8	57.8	56.8	55.1	53.3	49.1	47.5
60°	47.1	51.7	53.7	55.3	55.2	55.1	54.1	52.7	50.9	46.8	45.3
60.5°	44.6	49.1	51.1	52.7	52.5	52.5	51.6	50.2	48.6	44.6	43.1
61°	42.3	46.7	48.6	50.1	50.0	50.0	49.2	47.9	46.3	42.5	41.0
61.5°	40.1	44.3	46.2	47.6	47.4	47.6	46.8	45.6	44.0	40.5	39.1
62°	38.0	42.1	43.8	45.2	45.1	45.2	44.6	43.4	41.8	38.5	37.2
62.5°	35.9	40.0	41.6	42.9	42.8	43.0	42.4	41.3	39.7	36.6	35.4
63°	34.1	37.9	39.5	40.7	40.7	40.8	40.3	39.3	37.7	34.7	33.6
63.5°	32.4	35.7	37.5	38.7	38.6	38.8	38.3	37.4	35.7	32.9	32.0
64°	30.6	34.0	35.8	36.7	36.7	36.8	36.4	35.6	33.8	31.2	30.4
64.5°	28.9	32.3	34.0	35.0	34.9	35.0	34.6	33.7	32.0	29.6	28.9
65°	27.2	30.6	32.3	33.3	33.1	33.3	32.9	32.0	30.3	28.1	27.4
65.5°	25.6	28.9	30.6	31.6	31.4	31.6	31.2	30.4	28.7	26.6	26.1
66°	24.2	27.3	28.9	30.0	29.8	30.0	29.7	28.8	27.1	25.1	24.7



TEST NUMBER: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	20.3	23.1	24.6	25.4	25.4	25.6	25.4	24.5	22.9	21.3	21.1
68°	19.2	21.9	23.3	24.1	24.1	24.3	24.1	23.2	21.6	20.1	20.0
68.5°	18.0	20.6	22.0	22.8	22.8	23.0	22.8	22.0	20.4	19.0	18.9
69°	17.0	19.5	20.9	21.6	21.6	21.8	21.7	20.8	19.3	17.9	17.9
69.5°	16.0	18.4	19.7	20.4	20.5	20.6	20.5	19.6	18.2	16.9	16.9
70°	15.1	17.3	18.7	19.4	19.4	19.6	19.4	18.6	17.1	16.0	16.0
70.5°	14.2	16.4	17.6	18.3	18.3	18.5	18.4	17.5	16.1	15.0	15.1
71°	13.3	15.4	16.7	17.3	17.4	17.5	17.4	16.6	15.2	14.2	14.3
71.5°	12.5	14.5	15.8	16.4	16.4	16.6	16.5	15.6	14.3	13.3	13.5
72°	11.7	13.7	14.9	15.5	15.5	15.7	15.6	14.7	13.5	12.5	12.7
72.5°	11.0	12.9	14.0	14.6	14.6	14.8	14.7	13.9	12.7	11.8	12.0
73°	10.3	12.1	13.2	13.8	13.8	14.0	13.9	13.0	11.9	11.1	11.3
73.5°	9.7	11.3	12.5	13.0	13.1	13.2	13.1	12.3	11.2	10.4	10.6
74°	9.1	10.6	11.7	12.3	12.3	12.5	12.3	11.5	10.5	9.7	10.0
74.5°	8.5	10.0	11.0	11.6	11.6	11.7	11.6	10.8	9.8	9.1	9.3
75°	7.9	9.4	10.4	10.9	10.9	11.1	10.9	10.2	9.2	8.6	8.7
75.5°	7.4	8.8	9.7	10.2	10.3	10.4	10.3	9.5	8.6	8.0	8.2
76°	6.9	8.2	9.1	9.6	9.7	9.8	9.6	8.9	8.1	7.5	7.7
76.5°	6.4	7.6	8.6	9.0	9.1	9.2	9.0	8.4	7.6	6.9	7.2
77°	5.9	7.1	8.0	8.5	8.5	8.6	8.5	7.9	7.0	6.4	6.7
77.5°	5.5	6.6	7.5	7.9	8.0	8.1	8.0	7.3	6.5	5.9	6.2
78°	5.1	6.1	7.0	7.4	7.5	7.6	7.5	6.8	6.0	5.5	5.7
78.5°	4.7	5.7	6.5	6.9	7.0	7.1	6.9	6.3	5.6	5.1	5.3
79°	4.3	5.3	6.0	6.5	6.5	6.6	6.4	5.8	5.2	4.7	4.9
79.5°	3.9	4.9	5.6	6.0	6.0	6.1	6.0	5.4	4.8	4.3	4.5
80°	3.6	4.5	5.2	5.6	5.6	5.7	5.5	4.9	4.4	3.9	4.1
80.5°	3.3	4.1	4.8	5.2	5.2	5.3	5.1	4.5	4.0	3.6	3.8
81°	3.0	3.7	4.4	4.8	4.8	4.9	4.7	4.2	3.7	3.2	3.4
81.5°	2.6	3.4	4.0	4.4	4.4	4.5	4.4	3.8	3.3	2.9	3.1
82°	2.4	3.1	3.7	4.1	4.1	4.1	4.0	3.4	3.0	2.6	2.8
82.5°	2.1	2.7	3.4	3.7	3.7	3.8	3.7	3.1	2.7	2.3	2.5
83°	1.8	2.4	3.1	3.4	3.4	3.5	3.3	2.8	2.4	2.0	2.2
83.5°	1.6	2.1	2.8	3.1	3.1	3.2	3.0	2.5	2.1	1.7	1.9
84°	1.3	1.9	2.4	2.8	2.8	2.9	2.7	2.2	1.8	1.4	1.7
84.5°	1.1	1.6	2.2	2.5	2.5	2.6	2.4	1.9	1.6	1.2	1.5
85°	0.8	1.3	1.9	2.2	2.2	2.3	2.1	1.6	1.3	0.9	1.2
85.5°	0.6	1.1	1.7	2.0	2.0	2.0	1.9	1.4	1.1	0.8	1.0
86°	0.5	0.9	1.4	1.7	1.7	1.8	1.6	1.2	0.8	0.6	0.8
86.5°	0.4	0.7	1.2	1.5	1.5	1.5	1.4	1.0	0.7	0.5	0.6
87°	0.3	0.6	1.0	1.2	1.2	1.3	1.2	0.8	0.5	0.4	0.4
87.5°	0.2	0.5	0.8	1.0	1.0	1.0	1.0	0.7	0.4	0.3	0.3
88°	0.1	0.3	0.6	0.8	0.8	0.8	0.7	0.5	0.3	0.1	0.1
88.5°	0.0	0.2	0.4	0.6	0.6	0.6	0.5	0.4	0.2	0.0	0.0



TEST NUMBER: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-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: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	647.6	647.6	647.6	647.6	647.6	647.6
0.5°	647.5	647.8	647.9	647.3	647.0	647.3
1°	647.1	647.4	647.6	647.2	647.0	647.5
1.5°	646.6	646.9	647.3	647.0	646.9	647.5
2°	646.0	646.5	646.8	646.7	646.7	647.4
2.5°	645.4	645.9	646.4	646.4	646.5	647.3
3°	644.7	645.3	645.9	646.0	646.3	647.2
3.5°	644.0	644.7	645.3	645.6	646.0	647.1
4°	643.3	643.9	644.7	645.1	645.7	646.9
4.5°	642.4	643.2	644.0	644.5	645.3	646.6
5°	641.5	642.4	643.2	643.9	644.8	646.3
5.5°	640.5	641.4	642.4	643.3	644.3	646.0
6°	639.5	640.5	641.5	642.5	643.7	645.5
6.5°	638.5	639.5	640.6	641.8	643.1	645.0
7°	637.2	638.3	639.6	640.9	642.3	644.5
7.5°	636.1	637.2	638.6	640.0	641.6	643.9
8°	634.8	635.9	637.5	639.0	640.8	643.2
8.5°	633.5	634.7	636.3	638.0	640.0	642.5
9°	632.1	633.3	635.0	636.9	639.0	641.6
9.5°	630.6	631.9	633.7	635.7	638.0	640.8
10°	629.1	630.4	632.3	634.5	636.9	639.9
10.5°	627.5	628.9	630.9	633.1	635.8	638.9
11°	625.7	627.2	629.3	631.7	634.6	637.8
11.5°	624.0	625.5	627.7	630.2	633.3	636.7
12°	622.1	623.7	625.9	628.7	631.9	635.4
12.5°	620.3	621.8	624.2	627.1	630.5	634.1
13°	618.2	619.9	622.3	625.4	629.0	632.8
13.5°	616.1	617.9	620.4	623.6	627.4	631.4
14°	613.9	615.8	618.4	621.7	625.7	629.9
14.5°	611.7	613.5	616.3	619.8	624.0	628.3
15°	609.4	611.3	614.2	617.8	622.2	626.6
15.5°	607.0	609.0	611.9	615.7	620.2	624.9
16°	604.5	606.5	609.5	613.5	618.3	623.0
16.5°	601.9	604.1	607.1	611.3	616.2	621.1
17°	599.2	601.4	604.7	608.9	614.0	619.0
17.5°	596.6	598.7	602.0	606.5	611.7	617.0
18°	593.6	596.0	599.4	604.1	609.4	614.8
18.5°	590.8	593.2	596.7	601.3	606.9	612.5
19°	587.8	590.3	593.9	598.6	604.4	610.2
19.5°	584.7	587.4	591.0	595.9	601.8	607.8
20°	581.5	584.4	588.1	593.1	599.1	605.3
20.5°	578.3	581.3	585.1	590.2	596.3	602.6
21°	575.0	578.1	581.9	587.1	593.4	599.8

TEST NUMBER: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	564.5	568.0	572.0	577.5	584.2	591.1
23°	560.8	564.4	568.5	574.1	580.8	587.9
23.5°	557.0	560.6	565.0	570.6	577.4	584.6
24°	553.2	556.9	561.2	566.9	573.9	581.3
24.5°	549.3	553.1	557.5	563.2	570.3	577.9
25°	545.3	549.2	553.6	559.4	566.6	574.4
25.5°	541.1	545.1	549.7	555.5	562.8	570.7
26°	536.5	540.9	545.3	551.3	558.9	567.0
26.5°	531.8	536.3	540.8	546.8	554.9	563.1
27°	526.7	531.6	535.9	542.2	550.7	559.2
27.5°	521.3	526.3	530.9	537.4	546.2	554.8
28°	515.7	521.0	525.6	532.1	541.7	550.7
28.5°	509.9	515.0	520.0	526.9	536.8	546.0
29°	503.7	509.0	514.2	521.5	531.8	541.5
29.5°	497.4	502.5	508.1	515.8	526.6	536.6
30°	490.6	495.9	501.7	509.7	521.1	531.7
30.5°	483.6	488.4	495.0	503.8	515.5	526.2
31°	476.3	481.3	487.8	497.4	509.4	520.9
31.5°	468.9	473.5	480.6	491.0	503.2	515.0
32°	461.0	465.3	473.1	484.1	496.8	508.9
32.5°	453.0	456.8	465.3	477.5	490.1	502.4
33°	444.7	449.1	457.4	470.5	483.0	495.9
33.5°	436.1	440.8	449.2	463.0	475.9	488.7
34°	427.6	432.4	441.1	455.0	468.4	481.0
34.5°	418.9	423.7	432.7	447.2	460.5	472.8
35°	409.9	415.5	424.4	438.9	452.3	464.4
35.5°	400.9	407.1	416.1	430.3	443.9	455.7
36°	391.6	398.5	407.3	420.7	434.9	446.3
36.5°	382.3	389.4	398.6	411.7	425.5	436.6
37°	372.6	380.1	389.4	401.9	415.3	426.8
37.5°	362.7	370.6	379.7	391.9	405.1	416.6
38°	352.5	360.5	369.7	381.3	393.8	406.2
38.5°	341.7	349.8	359.3	370.3	382.8	395.6
39°	330.6	338.6	348.6	358.7	370.5	385.0
39.5°	319.4	326.9	337.0	346.9	358.6	374.1
40°	308.0	315.3	325.4	334.6	346.1	363.0
40.5°	296.8	303.9	313.3	322.4	333.9	351.8
41°	285.4	292.7	301.4	310.0	321.7	340.3
41.5°	274.0	281.8	289.5	297.8	309.4	328.5
42°	262.9	271.0	277.7	285.6	297.0	316.5
42.5°	251.8	260.2	265.9	273.4	285.2	304.4
43°	240.8	249.6	254.5	261.0	273.2	292.4
43.5°	229.8	238.4	243.1	249.2	261.4	280.7



TEST NUMBER: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	199.0	206.3	209.4	214.6	227.6	246.7
45.5°	189.4	195.7	198.5	203.8	217.2	235.8
46°	180.1	185.7	187.8	193.3	207.0	224.7
46.5°	170.6	175.9	177.4	183.4	196.8	213.6
47°	161.9	166.3	167.5	173.4	186.9	202.6
47.5°	153.6	156.7	158.1	164.3	177.2	192.1
48°	145.8	147.6	149.0	155.4	167.7	181.8
48.5°	137.8	138.9	140.5	146.9	158.8	171.7
49°	130.6	130.7	132.4	138.9	149.8	162.1
49.5°	123.7	122.9	124.8	131.3	141.3	153.0
50°	117.2	115.7	117.7	123.9	132.9	143.9
50.5°	110.8	108.9	111.0	116.9	125.2	135.3
51°	105.2	103.0	104.8	110.5	117.7	127.0
51.5°	99.7	97.7	99.3	104.5	110.8	119.1
52°	94.5	92.9	94.2	98.8	104.4	111.6
52.5°	90.2	88.5	89.4	93.4	98.3	104.5
53°	86.0	84.4	85.1	88.4	92.6	97.8
53.5°	81.8	80.5	80.9	83.7	87.2	91.8
54°	77.5	76.9	77.1	79.3	82.3	86.2
54.5°	73.3	73.4	73.5	75.2	77.8	81.3
55°	69.7	70.0	70.0	71.4	73.7	76.8
55.5°	66.4	66.7	66.7	67.8	69.8	72.6
56°	63.5	63.8	63.8	64.6	66.2	68.9
56.5°	60.9	61.3	61.2	61.9	63.3	65.5
57°	58.4	58.7	58.7	59.3	60.7	62.7
57.5°	55.9	56.2	56.1	56.7	58.1	60.0
58°	53.4	53.7	53.6	54.1	55.5	57.4
58.5°	50.9	51.2	51.0	51.6	52.8	54.8
59°	48.6	48.8	48.7	49.1	50.2	52.1
59.5°	46.3	46.6	46.4	46.7	47.8	49.6
60°	44.0	44.3	44.1	44.5	45.5	47.1
60.5°	42.0	42.2	42.0	42.3	43.2	44.6
61°	40.0	40.2	39.9	40.2	41.0	42.3
61.5°	38.0	38.2	38.0	38.3	39.0	40.1
62°	36.2	36.4	36.1	36.4	37.1	38.0
62.5°	34.4	34.8	34.4	34.7	35.3	35.9
63°	32.7	33.2	32.8	33.1	33.6	34.1
63.5°	31.1	31.5	31.2	31.4	31.9	32.4
64°	29.6	29.9	29.6	29.8	30.2	30.6
64.5°	28.1	28.2	28.0	28.1	28.5	28.9
65°	26.7	26.8	26.6	26.7	27.0	27.2
65.5°	25.3	25.4	25.2	25.3	25.5	25.6
66°	24.0	24.1	23.9	24.0	24.1	24.2



TEST NUMBER: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	20.5	20.6	20.4	20.4	20.4	20.3
68°	19.4	19.5	19.3	19.4	19.2	19.2
68.5°	18.4	18.5	18.3	18.3	18.2	18.0
69°	17.4	17.5	17.3	17.4	17.1	17.0
69.5°	16.5	16.6	16.4	16.4	16.2	16.0
70°	15.6	15.7	15.5	15.5	15.2	15.1
70.5°	14.7	14.8	14.6	14.6	14.3	14.2
71°	13.9	14.0	13.8	13.8	13.5	13.3
71.5°	13.1	13.2	13.0	13.0	12.7	12.5
72°	12.4	12.4	12.3	12.3	11.9	11.7
72.5°	11.7	11.7	11.6	11.6	11.2	11.0
73°	11.0	11.0	10.9	10.9	10.5	10.3
73.5°	10.3	10.4	10.2	10.2	9.8	9.7
74°	9.7	9.7	9.6	9.6	9.2	9.1
74.5°	9.1	9.1	9.0	9.0	8.6	8.5
75°	8.6	8.6	8.5	8.4	8.1	7.9
75.5°	8.1	8.0	7.9	7.9	7.5	7.4
76°	7.6	7.5	7.4	7.3	7.0	6.9
76.5°	7.1	7.0	6.9	6.9	6.5	6.4
77°	6.6	6.6	6.5	6.4	6.0	5.9
77.5°	6.1	6.1	6.0	5.9	5.6	5.5
78°	5.6	5.7	5.6	5.5	5.1	5.1
78.5°	5.2	5.3	5.2	5.1	4.7	4.7
79°	4.8	4.9	4.8	4.7	4.4	4.3
79.5°	4.5	4.5	4.4	4.3	4.0	3.9
80°	4.1	4.1	4.1	3.9	3.6	3.6
80.5°	3.7	3.8	3.7	3.6	3.3	3.3
81°	3.4	3.5	3.4	3.3	3.0	3.0
81.5°	3.1	3.2	3.1	3.0	2.6	2.6
82°	2.8	2.9	2.8	2.7	2.3	2.4
82.5°	2.5	2.5	2.5	2.4	2.0	2.1
83°	2.2	2.3	2.2	2.1	1.7	1.8
83.5°	2.0	2.0	1.9	1.8	1.5	1.6
84°	1.7	1.7	1.7	1.6	1.3	1.3
84.5°	1.5	1.5	1.4	1.4	1.0	1.1
85°	1.2	1.2	1.2	1.2	0.9	0.8
85.5°	1.0	1.0	1.0	0.9	0.7	0.6
86°	0.8	0.8	0.8	0.7	0.6	0.5
86.5°	0.6	0.6	0.5	0.5	0.4	0.4
87°	0.3	0.4	0.3	0.3	0.3	0.3
87.5°	0.1	0.2	0.1	0.2	0.2	0.2
88°	0.0	0.0	0.0	0.0	0.1	0.1
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775785

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-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



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

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21.5°	597.0	605.3	608.8	609.8	606.5	602.0	595.5	588.3	582.3	574.6	572.0
22°	594.1	602.5	606.3	607.2	603.9	599.3	592.6	585.3	579.2	571.2	568.5



44°	269.2	299.1	312.5	315.0	306.2	296.4	285.7	272.6	258.1	231.8	220.6
44.5°	257.9	287.1	300.1	303.0	294.1	284.3	273.2	261.3	247.2	221.5	210.7



66.5°	22.8	25.9	27.3	28.3	28.2	28.4	28.2	27.3	25.6	23.8	23.5
67°	21.5	24.4	25.9	26.8	26.8	27.0	26.7	25.9	24.2	22.5	22.3



89°	0.0	0.1	0.2	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0
89.5°	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0

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21.5°	571.6	574.8	578.7	584.0	590.4	597.0
22°	568.1	571.4	575.3	580.8	587.4	594.1



44°	219.4	227.5	231.8	237.6	249.8	269.2
44.5°	209.2	216.9	220.4	226.1	238.6	257.9

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66.5°	22.8	22.9	22.7	22.8	22.8	22.8
67°	21.6	21.7	21.5	21.6	21.6	21.5

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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)