

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: P775786

Luminaire Tested: HCDJBS510CSD-HCD6TRMW-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775786
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-3000K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

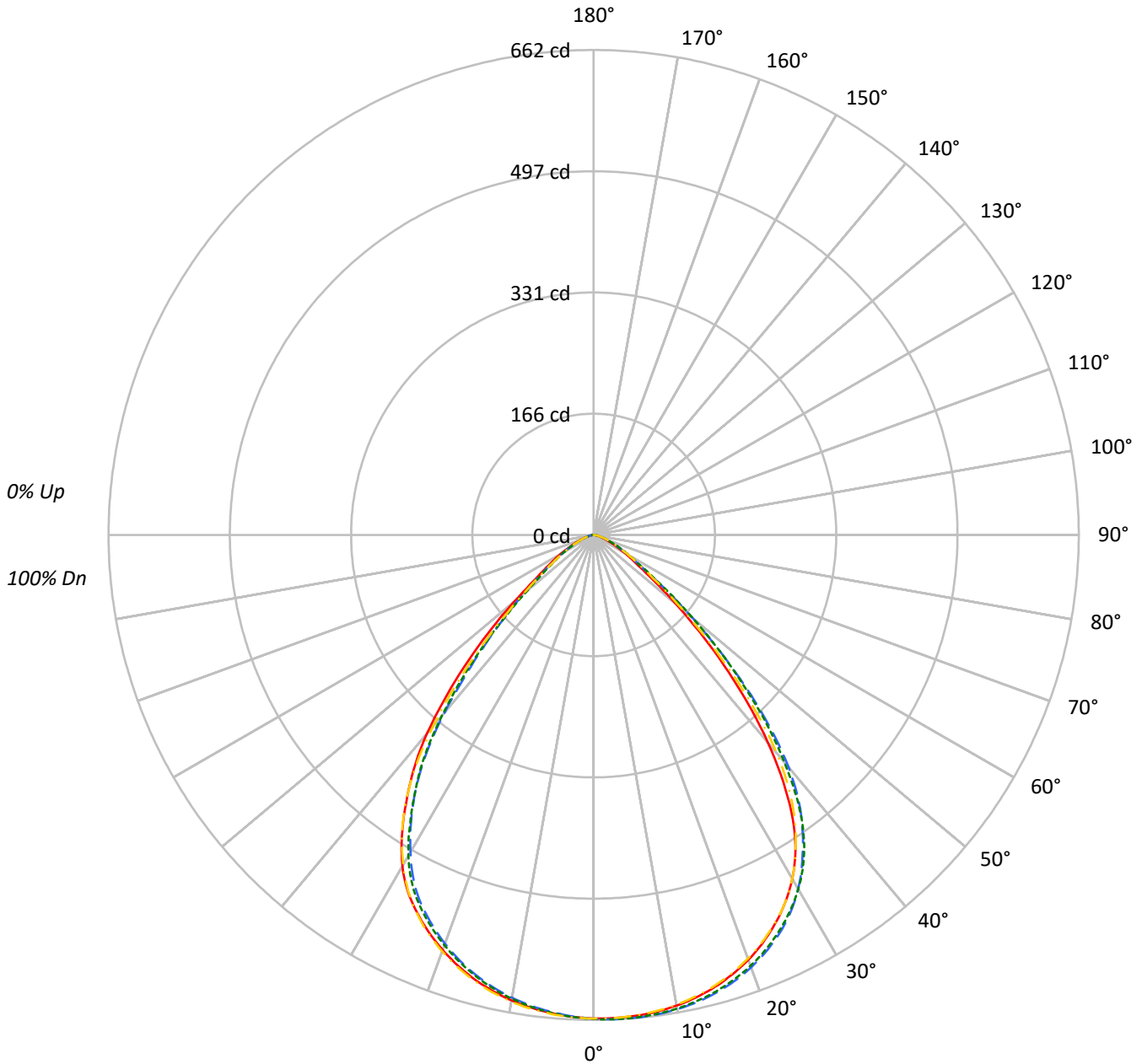
Lumens per Lamp: N/A
Luminaire Lumens: 1103.3 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90								
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81								
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72								
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65								
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59								
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53								
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48								
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44								
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40								
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	36198	36198	36198	36198
5°	36264	36397	36066	36044
10°	36322	36545	35916	35782
15°	36260	36612	35642	35375
20°	36006	36508	35172	34764
25°	35427	36147	34454	33873
30°	34322	35341	33037	32005
35°	31695	33428	29861	28355
40°	26485	28969	25312	23007
45°	19498	22336	18692	16304
50°	12511	15053	12025	10064
55°	7484	9080	7856	6815
60°	5274	6173	5690	4956
65°	3606	4384	4008	3541
70°	2468	3174	2789	2565
75°	1716	2351	1991	1864
80°	1168	1799	1421	1326
85°	503	1384	818	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 23002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	5.7
10°-20°	178.7	16.2
20°-30°	265.3	24.0
30°-40°	284.7	25.8
40°-50°	190.8	17.3
50°-60°	77.7	7.0
60°-70°	31.0	2.8
70°-80°	10.6	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°	506.5	45.9
0°-40°	791.3	71.7
0°-60°	1059.7	96.1
0°-90°	1103.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1103.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	660	660	660	660	660	
5°	659	661	655	655	659	63
15°	639	645	628	623	639	180
25°	586	598	570	560	586	269
35°	474	500	446	424	474	291
45°	252	288	241	210	252	194
55°	78	95	82	71	78	76
65°	28	34	31	27	28	29
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°	660.3	660.3	660.3	660.3	660.3	660.3	660.3	660.3	660.3	660.3	660.3
0.5°	660.0	660.3	660.7	661.0	661.1	661.0	660.2	659.6	659.7	659.7	660.0
1°	660.2	660.6	661.0	661.4	661.5	661.3	660.2	659.5	659.4	659.3	659.5
1.5°	660.2	660.8	661.4	661.7	661.6	661.3	660.2	659.3	659.2	658.8	659.0
2°	660.1	660.9	661.6	661.9	661.7	661.4	660.1	659.1	658.8	658.3	658.4
2.5°	660.0	661.0	661.7	662.0	661.8	661.4	660.0	658.8	658.4	657.8	657.8
3°	659.9	661.0	661.8	662.1	661.8	661.3	659.8	658.5	658.0	657.2	657.2
3.5°	659.8	661.0	661.9	662.1	661.8	661.1	659.5	658.1	657.4	656.5	656.4
4°	659.6	661.0	661.8	662.1	661.7	660.9	659.2	657.6	656.8	655.7	655.6
4.5°	659.3	660.8	661.8	662.1	661.6	660.7	658.9	657.2	656.1	654.9	654.8
5°	659.0	660.7	661.7	661.9	661.4	660.4	658.4	656.6	655.4	654.1	653.9
5.5°	658.7	660.4	661.5	661.8	661.1	660.0	658.0	655.9	654.7	653.2	652.9
6°	658.2	660.2	661.3	661.6	660.8	659.6	657.5	655.2	653.9	652.3	652.0
6.5°	657.7	659.8	660.9	661.3	660.4	659.2	656.9	654.5	653.1	651.3	650.8
7°	657.2	659.5	660.6	660.9	660.1	658.7	656.1	653.7	652.2	650.1	649.7
7.5°	656.6	659.0	660.2	660.5	659.6	658.1	655.5	652.9	651.1	649.0	648.5
8°	655.8	658.5	659.8	660.1	659.1	657.5	654.7	652.0	650.1	647.8	647.3
8.5°	655.1	658.0	659.3	659.6	658.6	656.9	653.9	650.9	648.9	646.6	645.9
9°	654.2	657.4	658.8	659.1	657.9	656.0	653.1	649.9	647.8	645.2	644.4
9.5°	653.4	656.7	658.1	658.5	657.2	655.3	652.1	648.8	646.6	643.8	643.0
10°	652.5	655.9	657.5	657.8	656.5	654.5	651.0	647.7	645.2	642.3	641.6
10.5°	651.5	655.0	656.7	657.1	655.5	653.5	650.0	646.4	643.9	640.7	639.9
11°	650.3	654.2	655.8	656.3	654.7	652.6	648.9	645.1	642.4	639.2	638.2
11.5°	649.2	653.2	654.9	655.4	653.7	651.5	647.7	643.7	640.8	637.5	636.5
12°	647.9	652.2	654.0	654.4	652.8	650.2	646.4	642.3	639.2	635.6	634.6
12.5°	646.6	650.9	653.0	653.4	651.7	649.1	645.0	640.7	637.6	633.8	632.7
13°	645.2	649.8	652.0	652.4	650.4	647.8	643.6	639.1	635.7	631.9	630.7
13.5°	643.8	648.6	650.7	651.1	649.2	646.5	642.1	637.5	633.9	629.8	628.6
14°	642.3	647.4	649.5	649.9	648.0	645.0	640.5	635.6	632.1	627.7	626.4
14.5°	640.6	645.8	648.2	648.7	646.6	643.5	638.8	633.8	630.0	625.5	624.1
15°	638.9	644.4	646.8	647.4	645.1	642.0	637.1	631.9	628.0	623.3	621.8
15.5°	637.2	642.8	645.2	645.9	643.5	640.3	635.3	630.0	625.7	620.8	619.3
16°	635.2	641.1	643.7	644.3	641.9	638.6	633.5	627.9	623.6	618.4	616.8
16.5°	633.3	639.4	642.1	642.7	640.2	636.8	631.6	625.7	621.2	615.9	614.2
17°	631.1	637.7	640.4	641.0	638.4	634.9	629.5	623.5	618.8	613.3	611.6
17.5°	629.1	635.7	638.6	639.2	636.6	632.9	627.4	621.2	616.4	610.5	608.7
18°	626.9	633.7	636.7	637.4	634.5	630.8	625.1	618.8	613.8	607.8	605.8
18.5°	624.5	631.7	634.7	635.3	632.5	628.7	622.8	616.4	611.2	604.9	602.9
19°	622.2	629.4	632.6	633.3	630.3	626.5	620.4	613.8	608.5	602.1	599.8
19.5°	619.7	627.2	630.4	631.1	628.2	624.1	618.0	611.2	605.7	599.0	596.7
20°	617.2	624.8	628.2	629.0	625.8	621.7	615.4	608.5	602.9	595.9	593.5
20.5°	614.5	622.4	625.7	626.7	623.5	619.2	612.8	605.7	599.9	592.6	590.2
21°	611.7	619.8	623.4	624.2	620.9	616.6	610.0	602.9	596.9	589.4	586.8



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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°	602.8	611.6	615.3	616.5	613.0	608.3	601.4	593.7	587.4	578.9	576.0
23°	599.5	608.6	612.6	613.6	610.0	605.2	598.2	590.5	583.9	575.2	572.3
23.5°	596.1	605.5	609.5	610.6	607.1	602.1	594.9	587.3	580.5	571.6	568.4
24°	592.8	602.4	606.6	607.7	604.0	598.9	591.7	583.8	577.0	567.8	564.4
24.5°	589.3	599.0	603.2	604.5	600.8	595.7	588.4	580.3	573.3	563.9	560.4
25°	585.7	595.6	600.0	601.4	597.6	592.4	584.9	576.8	569.6	559.9	556.3
25.5°	582.0	592.3	596.6	597.9	594.2	588.9	581.4	573.2	565.8	555.7	552.1
26°	578.2	588.7	593.1	594.5	590.7	585.4	577.8	569.4	561.9	551.3	547.5
26.5°	574.2	584.9	589.2	590.9	587.2	581.7	573.9	565.5	557.8	546.6	542.6
27°	570.2	580.9	585.5	587.2	583.4	577.9	569.9	561.3	553.5	541.6	537.4
27.5°	565.7	577.0	581.5	583.3	579.5	574.0	565.7	557.0	549.0	536.5	531.9
28°	561.6	572.7	577.2	579.2	575.5	569.9	561.3	552.4	544.1	531.0	526.0
28.5°	556.8	568.2	572.5	574.9	571.7	565.7	556.9	547.7	539.0	525.4	520.0
29°	552.2	563.5	568.0	570.4	567.3	561.5	552.1	542.6	533.7	519.2	513.5
29.5°	547.2	558.7	563.1	565.7	562.9	556.9	547.2	537.4	528.0	513.0	506.9
30°	542.2	553.7	558.1	560.9	558.3	552.3	541.9	531.8	521.9	506.6	500.0
30.5°	536.6	548.4	552.7	555.9	553.7	547.2	536.5	525.8	515.6	499.8	493.1
31°	531.1	542.9	547.4	550.7	548.7	542.1	530.9	519.8	508.9	492.7	485.7
31.5°	525.1	537.3	541.7	545.1	543.5	536.8	525.0	513.5	502.0	485.3	478.7
32°	518.9	531.2	535.6	539.6	538.2	531.0	519.1	506.7	494.7	477.9	471.2
32.5°	512.3	525.0	529.6	533.6	532.5	525.3	512.8	499.7	487.1	470.0	463.8
33°	505.6	518.6	523.4	527.6	526.6	519.3	506.3	492.5	479.3	462.1	455.9
33.5°	498.3	512.2	517.1	521.2	520.3	512.9	499.8	485.1	471.2	453.8	448.3
34°	490.4	505.3	510.7	514.7	513.9	506.6	493.1	477.4	463.1	445.1	439.8
34.5°	482.1	498.6	504.1	508.2	506.9	499.3	486.1	469.2	454.8	436.5	431.8
35°	473.6	491.1	497.3	501.1	499.5	492.3	478.8	461.1	446.2	427.8	423.0
35.5°	464.7	483.8	490.3	494.1	492.0	484.8	471.4	453.3	438.0	418.8	414.0
36°	455.1	476.0	483.4	486.9	483.9	477.4	463.7	444.7	429.4	409.6	404.4
36.5°	445.2	468.3	475.8	479.5	475.3	469.1	455.5	436.5	420.8	400.2	394.8
37°	435.2	459.8	468.3	471.8	466.3	460.6	446.9	427.9	411.9	390.7	384.5
37.5°	424.8	451.1	460.0	463.5	456.9	451.5	438.0	419.6	403.0	381.3	374.0
38°	414.2	441.9	451.9	455.1	446.9	442.6	428.8	410.5	393.9	370.9	363.4
38.5°	403.4	432.5	443.0	446.1	436.8	432.5	419.3	401.9	384.6	360.4	352.5
39°	392.6	422.5	433.7	437.0	426.5	422.3	409.4	392.3	374.9	349.6	340.7
39.5°	381.4	411.8	423.9	427.2	415.8	411.4	399.1	382.8	364.5	339.0	329.0
40°	370.1	400.4	413.9	416.8	404.8	400.1	388.4	372.2	353.7	327.2	316.8
40.5°	358.7	388.8	403.2	405.7	394.1	388.2	377.2	361.5	342.4	315.6	304.5
41°	347.0	376.9	391.9	394.2	383.0	376.2	365.6	350.1	330.7	304.3	292.4
41.5°	335.0	364.8	380.6	382.3	371.9	364.2	353.5	338.8	319.2	293.0	280.0
42°	322.8	352.6	368.7	369.9	360.2	351.9	340.8	326.4	307.4	281.1	268.5
42.5°	310.4	340.7	356.6	357.7	348.8	339.2	328.6	314.5	296.2	270.0	257.3
43°	298.2	328.8	343.9	345.6	337.1	327.3	316.2	302.2	285.1	258.6	246.2
43.5°	286.2	317.0	331.5	333.4	324.6	314.6	304.0	290.0	274.1	247.7	235.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	251.5	280.9	293.3	296.7	288.1	277.5	266.6	254.8	241.1	215.2	204.7
45.5°	240.4	268.9	280.2	284.7	275.9	265.4	254.5	243.3	230.2	205.1	195.2
46°	229.1	257.1	267.3	272.8	264.6	253.5	242.2	231.8	219.5	195.2	186.0
46.5°	217.8	245.3	254.9	260.9	253.2	242.1	230.4	220.4	208.8	185.8	176.9
47°	206.5	233.3	242.5	248.8	241.8	230.8	218.6	208.8	198.3	176.2	168.5
47.5°	195.9	221.8	230.4	236.8	230.3	219.9	207.5	197.8	188.2	167.6	160.3
48°	185.4	210.4	218.6	225.3	219.1	209.4	196.5	187.0	178.3	159.0	152.6
48.5°	175.1	199.3	207.5	213.9	208.2	199.3	186.3	176.6	168.7	150.8	144.8
49°	165.3	188.4	196.4	202.6	197.5	189.1	176.2	166.5	158.9	142.9	137.7
49.5°	156.0	177.6	185.8	191.8	186.8	179.1	166.7	156.9	149.7	135.3	130.7
50°	146.7	167.1	175.1	181.0	176.5	169.5	157.4	148.0	141.0	128.2	124.1
50.5°	138.0	157.0	165.2	170.5	166.4	160.1	148.8	139.4	132.5	121.4	117.8
51°	129.5	147.3	155.5	160.1	157.0	151.1	140.5	131.3	124.5	115.1	111.7
51.5°	121.4	137.9	146.2	150.6	147.8	142.6	132.9	123.9	117.1	109.0	105.9
52°	113.8	129.1	137.3	141.3	139.1	134.0	125.4	116.7	110.5	103.2	100.5
52.5°	106.5	120.9	128.8	132.4	130.3	125.9	118.5	110.2	104.3	97.8	95.4
53°	99.7	113.3	120.7	123.8	122.1	118.6	111.8	104.3	99.0	92.9	91.0
53.5°	93.6	106.1	113.1	116.0	114.4	111.5	105.7	98.8	94.1	88.6	86.5
54°	87.9	99.4	106.0	108.7	107.0	104.9	100.1	93.8	90.1	84.2	82.1
54.5°	82.9	93.4	99.1	101.8	100.2	98.8	94.8	89.7	86.1	79.9	77.8
55°	78.3	87.9	92.8	95.5	95.0	93.8	90.3	85.7	82.2	75.6	73.3
55.5°	74.0	82.9	87.0	89.8	89.9	88.9	85.9	81.6	78.3	71.9	69.7
56°	70.2	78.1	81.7	84.5	84.7	84.0	81.4	77.6	74.3	68.6	66.4
56.5°	66.8	73.7	77.0	79.6	79.5	79.1	76.9	73.5	70.9	65.4	63.6
57°	64.0	69.8	72.8	75.1	74.4	74.2	72.6	70.1	67.8	62.9	61.0
57.5°	61.2	66.4	68.9	71.0	70.6	70.5	69.0	66.8	64.8	60.2	58.5
58°	58.6	63.6	65.7	67.5	67.1	67.0	65.8	64.1	62.2	57.7	55.9
58.5°	55.9	60.8	63.0	64.5	64.4	64.3	63.2	61.5	59.6	55.1	53.3
59°	53.2	58.2	60.3	61.8	61.6	61.6	60.5	58.9	57.0	52.6	50.8
59.5°	50.6	55.4	57.6	59.2	59.0	59.0	58.0	56.2	54.4	50.1	48.5
60°	48.1	52.8	54.8	56.4	56.3	56.2	55.2	53.8	51.9	47.8	46.2
60.5°	45.5	50.1	52.1	53.8	53.6	53.6	52.7	51.2	49.6	45.5	44.0
61°	43.2	47.7	49.6	51.1	51.0	51.0	50.2	48.9	47.2	43.4	41.8
61.5°	40.9	45.2	47.1	48.6	48.4	48.6	47.8	46.5	44.9	41.3	39.9
62°	38.8	43.0	44.7	46.1	46.0	46.1	45.5	44.3	42.7	39.3	38.0
62.5°	36.6	40.8	42.5	43.8	43.7	43.9	43.3	42.1	40.5	37.3	36.1
63°	34.8	38.7	40.3	41.5	41.5	41.6	41.1	40.1	38.5	35.4	34.3
63.5°	33.1	36.4	38.3	39.5	39.4	39.6	39.1	38.2	36.4	33.6	32.7
64°	31.2	34.7	36.5	37.5	37.5	37.6	37.1	36.3	34.5	31.8	31.0
64.5°	29.5	33.0	34.7	35.7	35.6	35.7	35.3	34.4	32.7	30.2	29.5
65°	27.8	31.2	33.0	34.0	33.8	34.0	33.6	32.7	30.9	28.7	28.0
65.5°	26.1	29.5	31.2	32.2	32.0	32.2	31.8	31.0	29.3	27.1	26.6
66°	24.7	27.9	29.5	30.6	30.4	30.6	30.3	29.4	27.7	25.6	25.2



TEST NUMBER: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	20.7	23.6	25.1	25.9	25.9	26.1	25.9	25.0	23.4	21.7	21.5
68°	19.6	22.3	23.8	24.6	24.6	24.8	24.6	23.7	22.0	20.5	20.4
68.5°	18.4	21.0	22.4	23.3	23.3	23.5	23.3	22.4	20.8	19.4	19.3
69°	17.3	19.9	21.3	22.0	22.0	22.2	22.1	21.2	19.7	18.3	18.3
69.5°	16.3	18.8	20.1	20.8	20.9	21.0	20.9	20.0	18.6	17.2	17.2
70°	15.4	17.7	19.1	19.8	19.8	20.0	19.8	19.0	17.4	16.3	16.3
70.5°	14.5	16.7	18.0	18.7	18.7	18.9	18.8	17.9	16.4	15.3	15.4
71°	13.6	15.7	17.0	17.7	17.8	17.9	17.8	16.9	15.5	14.5	14.6
71.5°	12.8	14.8	16.1	16.7	16.7	16.9	16.8	15.9	14.6	13.6	13.8
72°	11.9	14.0	15.2	15.8	15.8	16.0	15.9	15.0	13.8	12.8	13.0
72.5°	11.2	13.2	14.3	14.9	14.9	15.1	15.0	14.2	13.0	12.0	12.2
73°	10.5	12.3	13.5	14.1	14.1	14.3	14.2	13.3	12.1	11.3	11.5
73.5°	9.9	11.5	12.8	13.3	13.4	13.5	13.4	12.6	11.4	10.6	10.8
74°	9.3	10.8	11.9	12.6	12.6	12.8	12.6	11.7	10.7	9.9	10.2
74.5°	8.7	10.2	11.2	11.8	11.8	11.9	11.8	11.0	10.0	9.3	9.5
75°	8.1	9.6	10.6	11.1	11.1	11.3	11.1	10.4	9.4	8.8	8.9
75.5°	7.6	9.0	9.9	10.4	10.5	10.6	10.5	9.7	8.8	8.2	8.4
76°	7.0	8.4	9.3	9.8	9.9	10.0	9.8	9.1	8.3	7.7	7.9
76.5°	6.5	7.8	8.8	9.2	9.3	9.4	9.2	8.6	7.8	7.0	7.3
77°	6.0	7.2	8.2	8.7	8.7	8.8	8.7	8.1	7.1	6.5	6.8
77.5°	5.6	6.7	7.7	8.1	8.2	8.3	8.2	7.4	6.6	6.0	6.3
78°	5.2	6.2	7.1	7.6	7.7	7.8	7.7	6.9	6.1	5.6	5.8
78.5°	4.8	5.8	6.6	7.0	7.1	7.2	7.0	6.4	5.7	5.2	5.4
79°	4.4	5.4	6.1	6.6	6.6	6.7	6.5	5.9	5.3	4.8	5.0
79.5°	4.0	5.0	5.7	6.1	6.1	6.2	6.1	5.5	4.9	4.4	4.6
80°	3.7	4.6	5.3	5.7	5.7	5.8	5.6	5.0	4.5	4.0	4.2
80.5°	3.4	4.2	4.9	5.3	5.3	5.4	5.2	4.6	4.1	3.7	3.9
81°	3.1	3.8	4.5	4.9	4.9	5.0	4.8	4.3	3.8	3.3	3.5
81.5°	2.7	3.5	4.1	4.5	4.5	4.6	4.5	3.9	3.4	3.0	3.2
82°	2.4	3.2	3.8	4.2	4.2	4.2	4.1	3.5	3.1	2.7	2.9
82.5°	2.1	2.8	3.5	3.8	3.8	3.9	3.8	3.2	2.8	2.3	2.6
83°	1.8	2.4	3.2	3.5	3.5	3.6	3.4	2.9	2.4	2.0	2.2
83.5°	1.6	2.1	2.9	3.2	3.2	3.3	3.1	2.6	2.1	1.7	1.9
84°	1.3	1.9	2.4	2.9	2.9	3.0	2.8	2.2	1.8	1.4	1.7
84.5°	1.1	1.6	2.2	2.6	2.6	2.7	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: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

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: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	660.3	660.3	660.3	660.3	660.3	660.3
0.5°	660.2	660.5	660.6	660.0	659.7	660.0
1°	659.8	660.1	660.3	659.9	659.7	660.2
1.5°	659.3	659.6	660.0	659.7	659.6	660.2
2°	658.7	659.2	659.5	659.4	659.4	660.1
2.5°	658.1	658.6	659.1	659.1	659.2	660.0
3°	657.4	658.0	658.6	658.7	659.0	659.9
3.5°	656.7	657.4	658.0	658.3	658.7	659.8
4°	655.9	656.6	657.4	657.8	658.4	659.6
4.5°	655.0	655.8	656.7	657.2	658.0	659.3
5°	654.1	655.0	655.8	656.6	657.5	659.0
5.5°	653.1	654.0	655.0	655.9	657.0	658.7
6°	652.1	653.1	654.1	655.1	656.4	658.2
6.5°	651.0	652.1	653.2	654.4	655.7	657.7
7°	649.7	650.8	652.2	653.5	654.9	657.2
7.5°	648.6	649.7	651.1	652.6	654.2	656.6
8°	647.3	648.4	650.0	651.6	653.4	655.8
8.5°	645.9	647.2	648.8	650.5	652.6	655.1
9°	644.5	645.7	647.5	649.4	651.6	654.2
9.5°	643.0	644.3	646.1	648.2	650.5	653.4
10°	641.5	642.8	644.7	647.0	649.4	652.5
10.5°	639.8	641.3	643.3	645.5	648.3	651.5
11°	638.0	639.5	641.7	644.1	647.1	650.3
11.5°	636.3	637.8	640.0	642.6	645.7	649.2
12°	634.3	635.9	638.2	641.0	644.3	647.9
12.5°	632.5	634.0	636.5	639.4	642.9	646.6
13°	630.3	632.1	634.5	637.7	641.4	645.2
13.5°	628.2	630.0	632.6	635.8	639.7	643.8
14°	625.9	627.9	630.5	633.9	638.0	642.3
14.5°	623.7	625.5	628.4	632.0	636.3	640.6
15°	621.4	623.3	626.3	629.9	634.4	638.9
15.5°	618.9	620.9	623.9	627.8	632.4	637.2
16°	616.4	618.4	621.5	625.5	630.4	635.2
16.5°	613.8	615.9	619.0	623.3	628.3	633.3
17°	611.0	613.3	616.6	620.8	626.0	631.1
17.5°	608.4	610.5	613.9	618.4	623.7	629.1
18°	605.3	607.8	611.2	615.9	621.4	626.9
18.5°	602.5	604.9	608.5	613.2	618.8	624.5
19°	599.4	602.0	605.6	610.4	616.2	622.2
19.5°	596.2	599.0	602.7	607.7	613.7	619.7
20°	593.0	595.9	599.7	604.8	610.9	617.2
20.5°	589.7	592.8	596.7	601.9	608.1	614.5
21°	586.4	589.5	593.4	598.7	605.1	611.7

TEST NUMBER: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	575.6	579.2	583.3	588.9	595.7	602.8
23°	571.9	575.5	579.7	585.4	592.3	599.5
23.5°	568.0	571.7	576.1	581.9	588.8	596.1
24°	564.1	567.9	572.3	578.1	585.2	592.8
24.5°	560.1	564.0	568.5	574.3	581.6	589.3
25°	556.0	560.0	564.5	570.4	577.8	585.7
25.5°	551.8	555.8	560.5	566.5	573.9	582.0
26°	547.1	551.6	556.0	562.2	569.9	578.2
26.5°	542.3	546.9	551.5	557.6	565.8	574.2
27°	537.1	542.1	546.5	552.9	561.6	570.2
27.5°	531.6	536.7	541.3	548.0	557.0	565.7
28°	525.8	531.2	535.9	542.6	552.4	561.6
28.5°	519.9	525.1	530.2	537.3	547.4	556.8
29°	513.6	519.0	524.3	531.8	542.3	552.2
29.5°	507.2	512.4	518.1	525.9	537.0	547.2
30°	500.2	505.6	511.6	519.7	531.3	542.2
30.5°	493.1	498.0	504.7	513.7	525.6	536.6
31°	485.6	490.7	497.4	507.2	519.4	531.1
31.5°	478.2	482.8	490.0	500.6	513.1	525.1
32°	470.1	474.5	482.4	493.6	506.6	518.9
32.5°	462.0	465.8	474.5	486.9	499.7	512.3
33°	453.5	458.0	466.4	479.7	492.5	505.6
33.5°	444.7	449.5	458.1	472.2	485.2	498.3
34°	436.0	440.9	449.8	464.0	477.7	490.4
34.5°	427.2	432.1	441.2	456.0	469.6	482.1
35°	418.0	423.7	432.8	447.6	461.2	473.6
35.5°	408.8	415.1	424.3	438.8	452.7	464.7
36°	399.3	406.3	415.3	429.0	443.5	455.1
36.5°	389.8	397.1	406.4	419.8	433.9	445.2
37°	379.9	387.6	397.1	409.8	423.5	435.2
37.5°	369.8	377.9	387.2	399.6	413.1	424.8
38°	359.4	367.6	377.0	388.8	401.5	414.2
38.5°	348.4	356.6	366.3	377.6	390.3	403.4
39°	337.2	345.2	355.4	365.7	377.8	392.6
39.5°	325.7	333.4	343.6	353.7	365.6	381.4
40°	314.1	321.5	331.9	341.2	352.9	370.1
40.5°	302.7	309.9	319.5	328.8	340.5	358.7
41°	291.0	298.5	307.4	316.1	328.1	347.0
41.5°	279.4	287.4	295.2	303.7	315.5	335.0
42°	268.1	276.3	283.2	291.2	302.9	322.8
42.5°	256.7	265.3	271.1	278.8	290.8	310.4
43°	245.5	254.5	259.5	266.1	278.6	298.2
43.5°	234.3	243.1	247.9	254.1	266.5	286.2



TEST NUMBER: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	203.0	210.3	213.5	218.8	232.1	251.5
45.5°	193.2	199.6	202.5	207.8	221.4	240.4
46°	183.7	189.4	191.5	197.2	211.0	229.1
46.5°	174.0	179.4	180.9	187.0	200.7	217.8
47°	165.1	169.6	170.8	176.8	190.6	206.5
47.5°	156.6	159.8	161.2	167.6	180.7	195.9
48°	148.7	150.5	151.9	158.5	171.0	185.4
48.5°	140.5	141.6	143.3	149.8	161.9	175.1
49°	133.2	133.3	135.0	141.6	152.8	165.3
49.5°	126.1	125.3	127.3	133.9	144.1	156.0
50°	119.5	118.0	120.0	126.3	135.5	146.7
50.5°	113.0	111.0	113.2	119.2	127.7	138.0
51°	107.2	105.0	106.8	112.7	120.0	129.5
51.5°	101.6	99.6	101.2	106.5	113.0	121.4
52°	96.3	94.7	96.0	100.7	106.4	113.8
52.5°	91.9	90.2	91.1	95.2	100.2	106.5
53°	87.7	86.0	86.7	90.1	94.4	99.7
53.5°	83.4	82.0	82.5	85.3	88.9	93.6
54°	79.0	78.4	78.6	80.8	83.9	87.9
54.5°	74.7	74.8	74.9	76.6	79.3	82.9
55°	71.0	71.3	71.3	72.8	75.1	78.3
55.5°	67.8	68.1	68.1	69.1	71.1	74.0
56°	64.8	65.1	65.1	65.9	67.6	70.2
56.5°	62.1	62.6	62.5	63.2	64.6	66.8
57°	59.6	59.9	59.9	60.5	61.9	64.0
57.5°	57.0	57.3	57.2	57.9	59.3	61.2
58°	54.5	54.8	54.7	55.2	56.6	58.6
58.5°	51.9	52.2	52.0	52.7	53.9	55.9
59°	49.6	49.8	49.7	50.1	51.2	53.2
59.5°	47.2	47.6	47.3	47.7	48.8	50.6
60°	44.9	45.2	45.0	45.4	46.4	48.1
60.5°	42.9	43.1	42.9	43.2	44.1	45.5
61°	40.8	41.0	40.7	41.0	41.8	43.2
61.5°	38.8	39.0	38.8	39.1	39.8	40.9
62°	36.9	37.1	36.8	37.1	37.9	38.8
62.5°	35.1	35.5	35.1	35.4	36.0	36.6
63°	33.4	33.9	33.5	33.8	34.3	34.8
63.5°	31.7	32.1	31.8	32.0	32.6	33.1
64°	30.2	30.5	30.2	30.4	30.8	31.2
64.5°	28.7	28.8	28.6	28.7	29.1	29.5
65°	27.2	27.3	27.1	27.2	27.6	27.8
65.5°	25.8	25.9	25.7	25.8	26.0	26.1
66°	24.5	24.6	24.4	24.5	24.6	24.7



TEST NUMBER: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	20.9	21.0	20.8	20.8	20.8	20.7
68°	19.8	19.9	19.7	19.8	19.6	19.6
68.5°	18.8	18.9	18.7	18.7	18.6	18.4
69°	17.8	17.9	17.7	17.8	17.4	17.3
69.5°	16.8	16.9	16.7	16.7	16.5	16.3
70°	15.9	16.0	15.8	15.8	15.5	15.4
70.5°	15.0	15.1	14.9	14.9	14.6	14.5
71°	14.2	14.3	14.1	14.1	13.8	13.6
71.5°	13.4	13.5	13.3	13.3	13.0	12.8
72°	12.7	12.7	12.6	12.6	12.1	11.9
72.5°	11.9	11.9	11.8	11.8	11.4	11.2
73°	11.2	11.2	11.1	11.1	10.7	10.5
73.5°	10.5	10.6	10.4	10.4	10.0	9.9
74°	9.9	9.9	9.8	9.8	9.4	9.3
74.5°	9.3	9.3	9.2	9.2	8.8	8.7
75°	8.8	8.8	8.7	8.6	8.3	8.1
75.5°	8.3	8.2	8.1	8.1	7.7	7.6
76°	7.8	7.7	7.6	7.4	7.1	7.0
76.5°	7.2	7.1	7.0	7.0	6.6	6.5
77°	6.7	6.7	6.6	6.5	6.1	6.0
77.5°	6.2	6.2	6.1	6.0	5.7	5.6
78°	5.7	5.8	5.7	5.6	5.2	5.2
78.5°	5.3	5.4	5.3	5.2	4.8	4.8
79°	4.9	5.0	4.9	4.8	4.5	4.4
79.5°	4.6	4.6	4.5	4.4	4.1	4.0
80°	4.2	4.2	4.2	4.0	3.7	3.7
80.5°	3.8	3.9	3.8	3.7	3.4	3.4
81°	3.5	3.6	3.5	3.4	3.1	3.1
81.5°	3.2	3.3	3.2	3.1	2.7	2.7
82°	2.9	3.0	2.9	2.8	2.3	2.4
82.5°	2.6	2.6	2.6	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: P775786

CATALOG NUMBER: HCDJBL510CSD-HCD6TRMW-1000lm-3000K

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°	608.8	617.2	620.7	621.8	618.4	613.9	607.3	599.9	593.8	585.9	583.3
22°	605.8	614.4	618.2	619.1	615.7	611.1	604.3	596.9	590.6	582.5	579.7



44°	274.5	305.0	318.7	321.2	312.3	302.3	291.3	278.0	263.2	236.3	224.9
44.5°	263.0	292.8	306.0	309.0	299.9	289.9	278.6	266.4	252.1	225.8	214.8



66.5°	23.3	26.4	27.9	28.9	28.8	29.0	28.8	27.9	26.1	24.3	24.0
67°	21.9	24.9	26.4	27.3	27.3	27.6	27.2	26.4	24.7	23.0	22.8



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°	582.9	586.1	590.1	595.5	602.1	608.8
22°	579.3	582.7	586.7	592.3	599.0	605.8



44°	223.7	231.9	236.3	242.3	254.7	274.5
44.5°	213.3	221.1	224.7	230.5	243.3	263.0

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66.5°	23.3	23.4	23.2	23.3	23.3	23.3
67°	22.0	22.1	21.9	22.0	22.0	21.9

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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)