

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: P775796

Luminaire Tested: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775796
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-HCD6TSQH-1000lm-3000K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

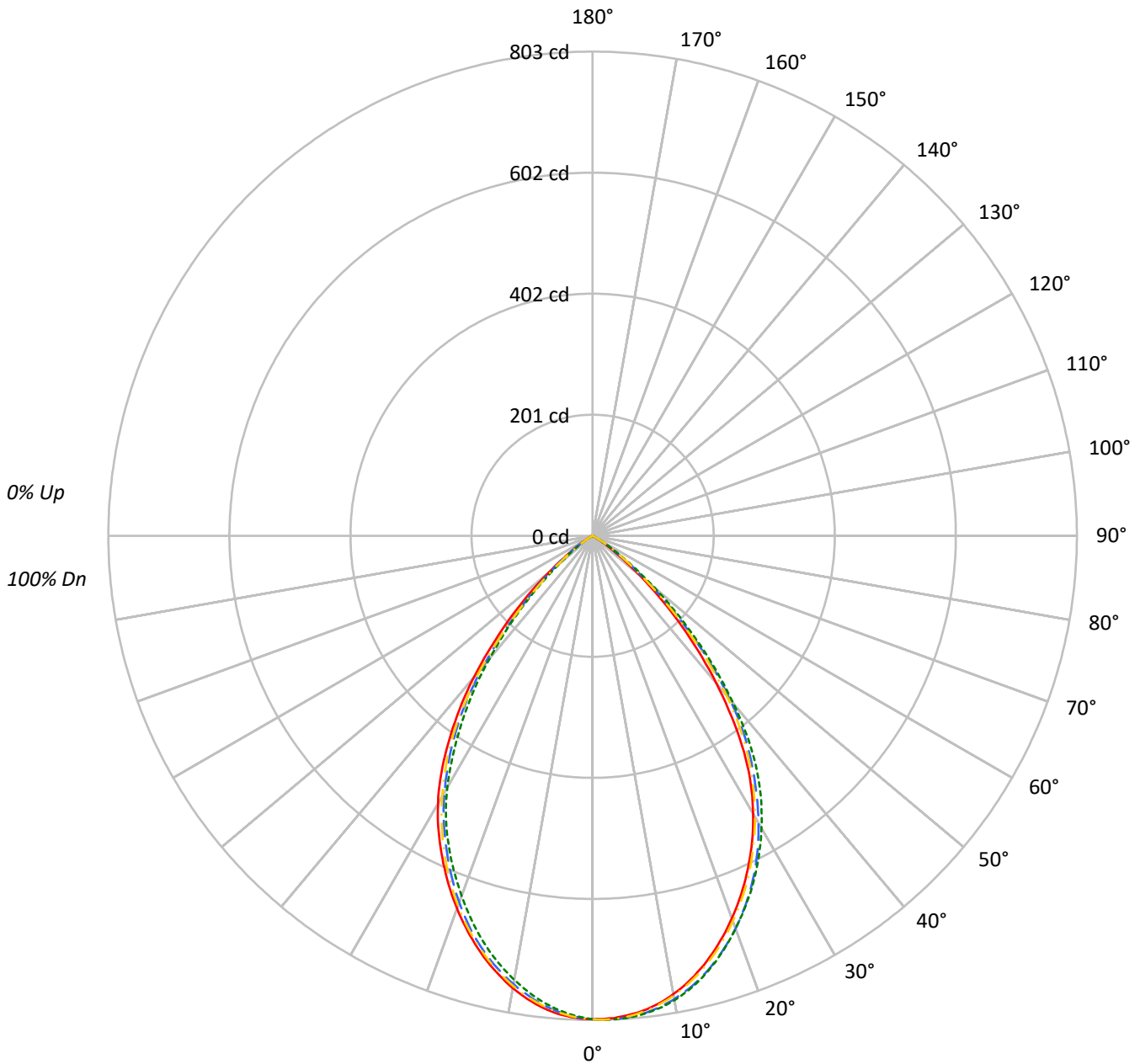
Lumens per Lamp: N/A
Luminaire Lumens: 1008.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43960	43960	43960	43960
5°	43765	44029	43567	43127
10°	42974	43542	42401	41644
15°	41464	42310	40630	39614
20°	39390	40446	38369	37062
25°	36843	38222	35663	34187
30°	33695	35442	32454	30524
35°	29259	31788	27807	25284
40°	22807	25984	21920	18993
45°	15637	18862	15040	12211
50°	8614	11403	8239	5996
55°	3297	5008	3565	2552
60°	439	1283	855	340
65°	52	104	78	52
70°	16	32	32	32
75°	21	21	21	21
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 18862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	7.4
10°-20°	203.0	20.1
20°-30°	274.5	27.2
30°-40°	263.6	26.1
40°-50°	153.5	15.2
50°-60°	37.8	3.7
60°-70°	1.2	0.1
70°-80°	0.1	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°	552.3	54.8
0°-40°	815.9	80.9
0°-60°	1007.2	99.9
0°-90°	1008.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1008.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	802	802	802	802	802	
5°	795	800	792	784	795	75
15°	731	746	716	698	731	205
25°	609	632	590	565	609	279
35°	437	475	416	378	437	269
45°	202	243	194	158	202	156
55°	34	52	37	27	34	36
65°	0	1	1	0	0	1
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°	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9	801.9
0.5°	801.7	801.8	802.4	803.0	802.2	802.5	802.7	802.3	801.5	801.2	801.3
1°	801.5	801.9	802.8	803.4	802.7	802.9	802.9	802.2	801.2	800.5	800.6
1.5°	801.3	801.9	802.9	803.7	803.0	803.1	802.8	802.0	800.8	799.8	799.6
2°	800.8	801.8	802.9	803.7	803.1	803.1	802.7	801.5	800.0	798.9	798.5
2.5°	800.8	801.5	802.6	803.5	803.0	802.9	802.2	800.9	799.3	797.8	797.1
3°	799.5	800.9	802.3	803.2	802.8	802.6	801.6	800.0	798.0	796.4	795.5
3.5°	798.7	800.3	801.8	802.8	802.3	801.9	800.8	799.0	796.8	795.0	794.0
4°	797.8	799.6	801.1	802.2	801.7	801.3	800.0	797.7	795.4	793.4	791.9
4.5°	796.5	798.7	800.2	801.4	801.0	800.4	798.7	796.3	793.8	791.4	789.9
5°	795.3	797.6	799.3	800.5	800.1	799.3	797.4	794.7	791.7	789.2	787.6
5.5°	794.2	796.3	798.2	799.3	799.2	798.2	795.8	792.8	789.5	787.0	785.0
6°	792.1	794.8	796.9	798.1	798.0	796.8	794.1	790.6	787.2	784.5	782.4
6.5°	790.4	793.3	795.4	796.8	796.6	795.2	792.4	788.3	784.7	781.9	779.4
7°	788.4	791.4	793.6	795.3	795.1	793.6	790.2	785.9	782.0	779.0	776.6
7.5°	786.1	789.4	791.8	793.5	793.4	791.8	788.0	783.1	779.0	775.8	773.2
8°	783.6	787.2	789.9	791.4	791.5	789.9	785.6	780.3	775.9	772.5	770.0
8.5°	781.1	784.8	787.7	789.3	789.5	787.6	783.0	777.3	772.6	769.2	766.4
9°	778.3	782.2	785.4	787.0	787.2	785.2	780.4	774.1	769.1	765.7	763.0
9.5°	775.2	779.6	782.7	784.6	784.8	782.7	777.3	770.7	765.7	761.9	759.1
10°	772.0	776.7	780.2	781.9	782.2	779.9	774.2	767.3	761.7	758.1	755.1
10.5°	768.6	773.5	777.3	779.1	779.3	777.0	771.0	763.5	757.9	754.2	751.1
11°	765.1	770.3	774.5	776.1	776.3	773.8	767.5	759.7	753.7	750.0	747.0
11.5°	761.4	766.9	771.1	772.9	773.1	770.5	764.0	755.8	749.3	745.8	742.7
12°	757.2	763.3	768.0	769.5	769.6	766.9	760.1	751.6	745.0	741.4	738.2
12.5°	753.2	759.5	764.3	766.0	766.0	763.2	756.2	747.4	740.6	736.9	733.7
13°	749.1	755.8	760.8	762.5	762.5	759.4	752.3	743.1	736.0	732.2	729.0
13.5°	744.6	751.5	756.9	758.5	758.3	755.2	747.9	738.5	731.1	727.5	724.2
14°	740.2	747.4	752.9	754.5	754.2	751.1	743.6	733.9	726.2	722.4	719.2
14.5°	735.5	742.9	748.6	750.4	749.7	746.5	739.1	728.9	721.2	717.2	714.1
15°	730.6	738.5	744.2	746.1	745.5	742.0	734.3	724.0	715.9	711.8	708.8
15.5°	725.6	733.8	739.8	741.8	740.7	737.4	729.4	718.9	710.6	706.6	703.4
16°	720.5	728.9	735.1	736.9	736.1	732.6	724.6	713.7	705.2	701.1	697.7
16.5°	715.2	723.9	730.2	732.2	731.1	727.5	719.4	708.4	699.7	695.3	691.9
17°	709.9	718.8	725.3	727.4	726.0	722.4	714.2	702.9	693.9	689.3	686.0
17.5°	704.3	713.7	720.2	722.4	720.9	717.1	708.7	697.1	688.2	683.3	679.7
18°	698.7	708.2	715.1	717.2	715.4	711.7	703.4	691.5	682.0	677.2	673.4
18.5°	693.0	702.7	709.6	711.9	710.0	706.3	697.7	685.5	676.0	670.9	667.2
19°	687.1	697.0	704.3	706.5	704.5	700.7	691.9	679.6	670.0	664.7	660.4
19.5°	681.1	691.2	698.6	701.0	699.0	694.9	686.0	673.4	664.0	658.0	653.6
20°	675.2	685.4	693.1	695.4	693.3	689.0	680.2	667.4	657.7	651.4	646.9
20.5°	668.9	679.3	687.3	689.3	687.2	683.2	674.0	661.1	651.3	644.8	640.1
21°	662.7	673.1	681.4	683.5	681.3	677.1	667.7	654.9	644.9	638.2	633.3



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CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	643.4	654.0	662.9	664.9	663.7	658.2	648.5	636.1	624.9	617.4	611.3
23°	636.8	647.3	656.4	658.5	657.5	651.5	642.2	629.3	617.8	610.2	603.9
23.5°	630.2	640.4	649.8	651.9	651.3	644.8	635.8	622.5	610.8	602.8	596.2
24°	623.2	633.7	642.8	645.1	645.0	638.2	628.9	615.7	603.7	595.5	588.7
24.5°	616.2	626.7	636.0	638.3	638.8	632.5	621.8	608.7	596.9	588.2	580.9
25°	609.1	619.7	628.9	631.4	631.9	625.6	614.6	601.8	589.6	580.8	573.5
25.5°	602.0	612.2	621.8	624.2	625.1	618.5	607.4	594.6	582.4	573.2	565.7
26°	594.8	605.1	614.4	617.2	618.3	611.5	600.1	587.5	575.1	565.7	558.1
26.5°	587.3	597.8	606.9	609.9	611.4	604.1	592.5	580.2	567.8	558.2	550.3
27°	579.9	590.1	599.4	602.5	604.5	597.0	585.2	573.0	560.2	550.6	542.5
27.5°	572.2	582.3	591.6	595.0	597.2	589.6	577.7	565.7	552.9	542.9	534.5
28°	564.5	574.4	583.5	587.3	589.9	582.2	570.1	558.1	545.3	534.7	526.3
28.5°	556.7	566.5	575.4	579.5	582.7	574.6	562.5	550.6	537.6	526.5	517.8
29°	548.7	558.4	567.1	571.6	575.3	567.1	554.6	542.8	529.6	518.3	509.2
29.5°	540.5	550.0	558.6	563.6	567.6	559.5	546.7	534.6	521.3	509.8	500.2
30°	532.3	541.5	550.1	555.5	559.9	551.8	538.6	526.5	512.7	501.1	491.2
30.5°	523.8	532.9	541.5	546.8	552.1	543.8	530.4	517.9	504.3	492.1	482.1
31°	515.2	524.1	532.3	538.6	544.5	535.8	522.0	509.4	495.3	483.0	472.8
31.5°	506.3	515.1	523.6	529.9	536.2	527.7	513.4	500.6	486.0	473.9	463.3
32°	497.1	505.8	514.4	521.0	528.0	519.4	504.9	491.6	476.5	464.5	453.7
32.5°	488.0	496.9	505.3	512.0	519.8	510.9	496.1	482.5	467.0	454.9	444.2
33°	478.6	487.5	496.2	503.1	511.3	502.3	487.3	472.9	457.1	445.0	434.7
33.5°	468.8	478.1	487.3	494.0	502.5	493.6	478.3	463.3	447.0	435.0	425.1
34°	458.5	468.4	477.9	484.9	493.8	484.6	469.2	453.5	436.8	425.2	415.4
34.5°	448.1	459.0	468.5	475.7	484.3	475.2	460.1	443.5	426.0	414.7	405.3
35°	437.2	449.0	459.0	466.0	475.0	465.9	450.8	433.2	415.5	404.1	395.4
35.5°	426.3	439.1	449.8	456.4	465.1	456.5	441.5	423.0	405.0	393.7	385.2
36°	414.6	429.1	439.8	446.8	455.3	446.9	431.9	412.7	394.4	383.0	374.7
36.5°	402.9	418.4	430.4	437.2	444.7	437.0	422.0	402.3	383.7	372.2	363.8
37°	390.8	407.6	420.4	427.1	434.0	426.7	411.8	391.9	372.6	361.3	352.3
37.5°	378.9	396.4	410.1	416.8	422.9	416.2	401.5	381.2	362.2	350.2	341.2
38°	366.5	384.9	399.4	405.6	411.5	405.1	390.8	370.5	351.2	338.9	329.4
38.5°	354.7	373.4	388.6	395.1	399.5	393.9	379.9	359.8	340.3	327.5	317.7
39°	342.4	361.4	377.3	383.7	387.6	382.4	368.5	349.0	329.1	316.0	306.0
39.5°	330.5	349.4	365.8	372.3	375.4	370.5	357.0	337.8	318.1	304.4	293.9
40°	318.7	336.8	353.8	360.4	363.1	357.9	345.2	326.4	306.3	292.4	281.8
40.5°	306.9	324.5	342.2	348.3	350.9	345.3	333.4	315.0	294.8	280.6	269.4
41°	295.0	312.9	330.3	335.9	338.8	332.5	320.8	303.5	283.0	268.9	257.1
41.5°	283.2	300.8	318.2	323.6	327.1	319.8	308.4	292.1	271.2	257.8	244.9
42°	271.3	288.7	305.7	316.3	315.2	307.1	295.8	280.1	259.4	246.1	233.0
42.5°	259.4	276.7	293.2	303.0	303.7	294.4	283.4	268.2	248.4	234.8	221.5
43°	247.4	264.5	280.7	289.3	292.0	281.9	271.1	256.1	237.0	223.5	210.4
43.5°	235.6	252.9	268.3	275.8	279.6	269.7	258.8	244.3	226.4	212.4	199.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	201.7	217.8	230.8	238.0	243.3	233.5	222.3	209.1	194.0	180.1	168.7
45.5°	191.0	206.1	218.5	226.3	231.3	221.4	210.3	198.1	183.3	169.8	159.0
46°	179.9	194.8	206.3	214.6	219.8	209.8	198.7	186.8	173.0	159.6	149.6
46.5°	169.0	183.5	194.1	203.0	208.6	198.4	187.0	175.8	162.4	150.2	140.5
47°	158.4	172.3	182.5	191.3	197.5	187.2	175.8	164.6	152.2	140.4	131.7
47.5°	148.0	161.4	171.4	180.0	186.4	176.3	164.8	154.1	142.4	131.5	123.3
48°	137.9	150.7	160.4	168.8	175.5	166.0	154.2	143.4	132.9	122.7	115.3
48.5°	128.2	140.4	149.6	158.0	164.8	156.1	144.0	133.3	123.6	114.5	107.8
49°	118.7	130.3	139.4	147.4	154.2	146.2	133.9	123.4	114.3	106.3	100.5
49.5°	109.6	120.5	129.4	137.1	143.6	136.6	124.7	114.0	105.3	98.6	93.2
50°	101.0	110.7	119.7	126.7	133.7	127.0	115.6	105.0	96.6	91.3	86.7
50.5°	92.5	101.2	110.2	116.9	123.9	117.9	107.0	96.5	88.4	84.9	80.6
51°	84.5	92.5	101.4	107.4	114.4	109.1	98.8	88.5	81.3	78.6	74.5
51.5°	76.6	84.1	92.8	98.4	105.6	100.6	91.0	81.7	74.3	72.2	68.6
52°	69.2	76.3	84.7	89.9	96.9	92.4	84.5	75.0	67.1	65.8	62.5
52.5°	62.1	68.7	76.8	81.6	88.6	85.3	77.9	68.1	60.1	59.5	56.9
53°	55.6	61.9	69.5	73.7	81.1	78.2	71.3	61.3	54.6	54.1	51.9
53.5°	49.5	55.5	62.4	66.4	73.7	71.2	64.7	55.6	49.6	49.1	46.9
54°	44.0	49.7	56.0	59.8	66.1	64.1	58.1	50.4	45.1	44.5	42.5
54.5°	39.0	44.1	49.7	53.4	58.7	57.0	52.7	45.7	41.0	40.0	37.9
55°	34.5	39.2	44.0	47.7	52.4	51.6	47.6	41.5	37.3	35.9	33.7
55.5°	30.1	34.4	38.7	42.4	46.7	46.0	42.8	37.3	33.6	31.9	29.7
56°	26.6	30.0	33.9	37.4	41.4	41.0	38.1	33.5	30.1	28.2	26.0
56.5°	23.1	26.5	29.8	32.6	36.6	36.3	33.7	29.9	26.7	24.7	22.5
57°	19.7	23.0	26.2	28.8	32.1	31.9	29.7	26.4	23.5	21.4	19.3
57.5°	16.3	19.5	22.5	25.1	27.8	27.7	25.8	23.0	20.5	18.5	16.3
58°	13.0	16.0	18.9	21.4	23.9	23.8	22.3	20.0	17.6	15.4	13.1
58.5°	9.8	12.6	15.3	17.7	20.4	20.3	19.1	17.0	14.5	13.1	11.2
59°	7.2	9.5	11.9	14.0	17.0	17.1	15.8	13.7	12.3	10.8	9.1
59.5°	5.3	6.9	8.7	10.5	14.3	14.8	13.4	11.6	10.1	8.4	7.2
60°	4.0	5.0	6.3	7.6	11.7	12.4	11.0	9.5	7.8	6.2	5.3
60.5°	2.9	3.8	4.6	5.4	9.1	10.0	8.5	7.4	5.6	3.9	3.3
61°	2.5	3.3	3.4	4.0	6.4	7.6	6.1	5.3	3.5	3.0	2.5
61.5°	2.0	2.7	2.9	3.0	3.8	5.3	3.7	3.2	2.6	2.4	2.0
62°	1.6	2.2	2.4	2.5	2.8	2.9	2.8	2.4	2.0	1.8	1.7
62.5°	1.1	1.7	1.8	2.1	2.2	2.2	2.1	1.9	1.6	1.5	1.3
63°	1.0	1.2	1.4	1.7	1.8	1.8	1.7	1.5	1.3	1.2	1.1
63.5°	0.8	1.0	1.1	1.2	1.4	1.4	1.3	1.2	1.1	1.1	1.0
64°	0.6	0.8	1.0	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.8
64.5°	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.7	0.7	0.7
65°	0.4	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6
65.5°	0.4	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5
66°	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4



TEST NUMBER: P775796

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
68°	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
68.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
77°	0.0	0.0	0.0	0.1	0.1	0.1	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: P775796

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-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: P775796

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	801.9	801.9	801.9	801.9	801.9	801.9
0.5°	801.6	800.7	801.2	801.6	801.9	801.7
1°	800.8	799.6	800.2	800.9	801.4	801.5
1.5°	799.6	798.4	799.2	800.0	800.9	801.3
2°	798.2	796.9	797.8	798.9	800.0	800.8
2.5°	796.7	795.2	796.1	797.7	799.1	800.8
3°	795.0	793.3	794.4	796.1	798.2	799.5
3.5°	793.0	791.2	792.4	794.6	797.0	798.7
4°	791.0	789.0	790.3	792.8	795.7	797.8
4.5°	788.7	786.4	788.0	790.9	794.2	796.5
5°	786.2	783.7	785.5	788.7	792.5	795.3
5.5°	783.4	781.0	782.7	786.4	790.6	794.2
6°	780.5	778.0	780.0	784.1	788.6	792.1
6.5°	777.5	774.7	776.9	781.3	786.4	790.4
7°	774.3	771.5	773.8	778.5	784.1	788.4
7.5°	770.9	767.9	770.4	775.7	781.6	786.1
8°	767.4	764.1	767.0	772.5	778.9	783.6
8.5°	763.8	760.2	763.3	769.2	775.8	781.1
9°	760.1	756.4	759.4	765.8	772.7	778.3
9.5°	755.9	752.2	755.6	762.1	769.4	775.2
10°	751.9	748.1	751.4	758.4	766.0	772.0
10.5°	747.6	743.5	747.3	754.4	762.3	768.6
11°	743.2	739.0	742.9	750.2	758.6	765.1
11.5°	738.7	734.4	738.4	745.9	754.6	761.4
12°	734.0	729.5	733.7	741.5	750.4	757.2
12.5°	729.2	724.6	728.9	736.9	746.1	753.2
13°	724.2	719.5	723.9	732.2	741.8	749.1
13.5°	719.1	714.4	718.8	727.3	737.1	744.6
14°	713.7	709.1	713.5	722.4	732.5	740.2
14.5°	708.3	703.6	708.1	717.3	727.5	735.5
15°	702.7	698.0	702.6	712.1	722.8	730.6
15.5°	697.2	692.1	696.9	706.6	717.4	725.6
16°	691.3	686.4	691.2	701.3	712.3	720.5
16.5°	685.4	680.3	685.2	695.8	707.0	715.2
17°	679.3	674.3	679.2	690.1	701.5	709.9
17.5°	673.3	668.0	673.1	684.0	695.6	704.3
18°	667.2	661.5	666.9	678.1	689.8	698.7
18.5°	660.7	655.0	660.7	671.9	684.0	693.0
19°	654.4	648.7	654.1	665.6	677.8	687.1
19.5°	648.0	642.1	647.7	659.3	671.6	681.1
20°	641.6	635.3	641.3	652.7	665.3	675.2
20.5°	635.3	628.6	634.7	646.1	658.7	668.9
21°	628.4	621.8	628.1	639.4	652.1	662.7

TEST NUMBER: P775796

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	607.4	601.2	607.4	618.2	631.5	643.4
23°	600.2	594.1	600.2	611.0	624.4	636.8
23.5°	593.1	587.1	593.3	603.8	617.2	630.2
24°	585.7	579.9	586.0	596.4	609.8	623.2
24.5°	578.3	572.7	578.8	588.9	602.6	616.2
25°	570.9	565.2	571.4	581.3	595.2	609.1
25.5°	563.4	557.8	564.0	573.7	587.6	602.0
26°	556.0	550.4	556.2	565.7	580.2	594.8
26.5°	548.3	542.6	548.3	558.1	572.5	587.3
27°	540.3	534.7	540.3	549.7	564.8	579.9
27.5°	532.3	526.8	532.0	541.6	556.9	572.2
28°	524.0	518.1	523.3	533.2	548.8	564.5
28.5°	515.4	509.5	515.0	524.8	540.6	556.7
29°	506.8	500.6	506.2	516.3	532.3	548.7
29.5°	498.0	491.6	497.1	507.4	523.9	540.5
30°	488.8	482.2	487.9	498.6	515.5	532.3
30.5°	479.5	472.2	478.6	489.5	506.6	523.8
31°	470.0	462.2	468.7	480.5	497.7	515.2
31.5°	460.4	452.0	458.9	471.5	488.7	506.3
32°	450.6	441.6	448.6	461.9	479.7	497.1
32.5°	440.4	431.2	438.4	452.6	470.5	488.0
33°	430.0	420.4	427.9	443.1	460.8	478.6
33.5°	419.5	409.7	417.5	433.6	451.2	468.8
34°	408.9	399.1	407.1	423.6	441.3	458.5
34.5°	398.0	388.4	396.5	413.2	431.4	448.1
35°	387.2	377.8	385.7	402.7	420.8	437.2
35.5°	376.4	367.2	375.3	392.0	410.4	426.3
36°	365.4	356.7	364.7	381.1	399.0	414.6
36.5°	354.4	346.1	354.1	369.9	387.5	402.9
37°	343.2	335.3	343.3	357.6	375.6	390.8
37.5°	332.0	324.2	332.3	346.1	364.0	378.9
38°	320.6	313.3	321.0	333.9	351.4	366.5
38.5°	308.9	301.4	309.2	322.1	338.9	354.7
39°	297.6	289.4	297.4	315.3	326.0	342.4
39.5°	286.0	277.4	285.6	301.6	311.4	330.5
40°	274.3	265.4	273.8	287.8	299.3	318.7
40.5°	262.7	253.9	262.0	274.1	287.1	306.9
41°	251.2	242.8	249.7	260.4	275.1	295.0
41.5°	240.2	231.9	237.8	248.3	263.0	283.2
42°	228.6	221.2	226.2	236.1	250.7	271.3
42.5°	217.4	210.4	215.1	224.0	238.8	259.4
43°	206.5	199.8	204.0	212.1	226.6	247.4
43.5°	195.3	189.0	192.7	200.4	214.8	235.6



TEST NUMBER: P775796

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	164.3	157.5	160.0	166.5	181.5	201.7
45.5°	154.3	147.7	149.3	156.0	171.2	191.0
46°	144.7	138.0	139.1	145.9	161.0	179.9
46.5°	135.7	128.2	129.1	136.1	151.3	169.0
47°	126.4	119.0	119.6	126.6	141.5	158.4
47.5°	117.9	109.9	110.6	117.7	132.4	148.0
48°	109.7	101.2	101.8	109.1	123.0	137.9
48.5°	101.8	92.7	93.6	100.9	114.2	128.2
49°	94.3	84.9	85.8	93.2	105.4	118.7
49.5°	87.2	77.3	78.4	85.7	97.2	109.6
50°	80.9	70.3	71.7	78.7	89.0	101.0
50.5°	74.6	64.0	65.3	72.1	81.5	92.5
51°	68.3	58.3	59.6	65.9	74.4	84.5
51.5°	62.0	53.1	54.2	59.9	67.6	76.6
52°	56.7	48.4	49.4	54.6	61.3	69.2
52.5°	51.5	44.2	44.8	49.5	55.3	62.1
53°	46.6	40.2	40.8	44.6	49.6	55.6
53.5°	42.2	36.5	36.8	39.9	44.3	49.5
54°	38.0	33.0	33.1	35.7	39.5	44.0
54.5°	33.9	29.8	30.0	31.6	35.0	39.0
55°	30.2	26.7	26.8	28.3	30.5	34.5
55.5°	26.5	23.6	23.7	25.0	27.1	30.1
56°	23.2	20.6	20.6	21.6	23.6	26.6
56.5°	20.1	17.5	17.4	18.4	20.2	23.1
57°	17.2	14.3	14.2	15.0	16.8	19.7
57.5°	14.1	11.2	11.2	11.8	13.5	16.3
58°	12.0	8.5	8.4	9.0	10.4	13.0
58.5°	9.8	6.4	6.2	6.6	7.7	9.8
59°	7.7	4.7	4.7	4.9	5.7	7.2
59.5°	5.6	3.6	3.5	3.7	4.2	5.3
60°	3.5	3.1	3.0	3.2	3.2	4.0
60.5°	2.7	2.5	2.5	2.6	2.7	2.9
61°	2.2	1.9	1.8	2.2	2.2	2.5
61.5°	1.8	1.4	1.3	1.7	1.8	2.0
62°	1.4	1.1	1.1	1.1	1.3	1.6
62.5°	1.1	1.0	0.9	1.0	1.1	1.1
63°	1.0	0.8	0.8	0.8	0.9	1.0
63.5°	0.8	0.7	0.6	0.6	0.7	0.8
64°	0.7	0.6	0.5	0.5	0.6	0.6
64.5°	0.6	0.5	0.4	0.4	0.5	0.5
65°	0.5	0.4	0.4	0.4	0.4	0.4
65.5°	0.4	0.4	0.4	0.4	0.4	0.4
66°	0.4	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P775796

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.2	0.2	0.3	0.3
68°	0.3	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.1	0.1	0.1	0.1
70.5°	0.2	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	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.0	0.0	0.1
75.5°	0.1	0.0	0.0	0.0	0.0	0.0
76°	0.1	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: P775796
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-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°	656.3	666.8	675.4	677.4	675.5	670.9	661.4	648.6	638.6	631.6	626.0
22°	649.9	660.5	669.1	671.2	669.5	664.9	654.9	642.3	631.7	624.5	618.8



44°	223.9	241.1	255.8	262.1	267.4	257.7	246.4	232.2	215.2	201.3	189.0
44.5°	212.7	229.5	243.3	250.0	255.2	245.6	234.5	220.6	204.9	190.8	178.9



66.5°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



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°	621.4	615.0	621.2	632.4	645.3	656.3
22°	614.4	608.1	614.3	625.4	638.4	649.9



44°	184.7	178.2	181.6	188.9	203.6	223.9
44.5°	174.5	167.7	170.9	177.6	192.5	212.7

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66.5°	0.4	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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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)