

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: P775866

Luminaire Tested: HCDJBS510CSD-HCD8TRC-1000lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775866  
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-HCD8TRC-1000lm-3000K  
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

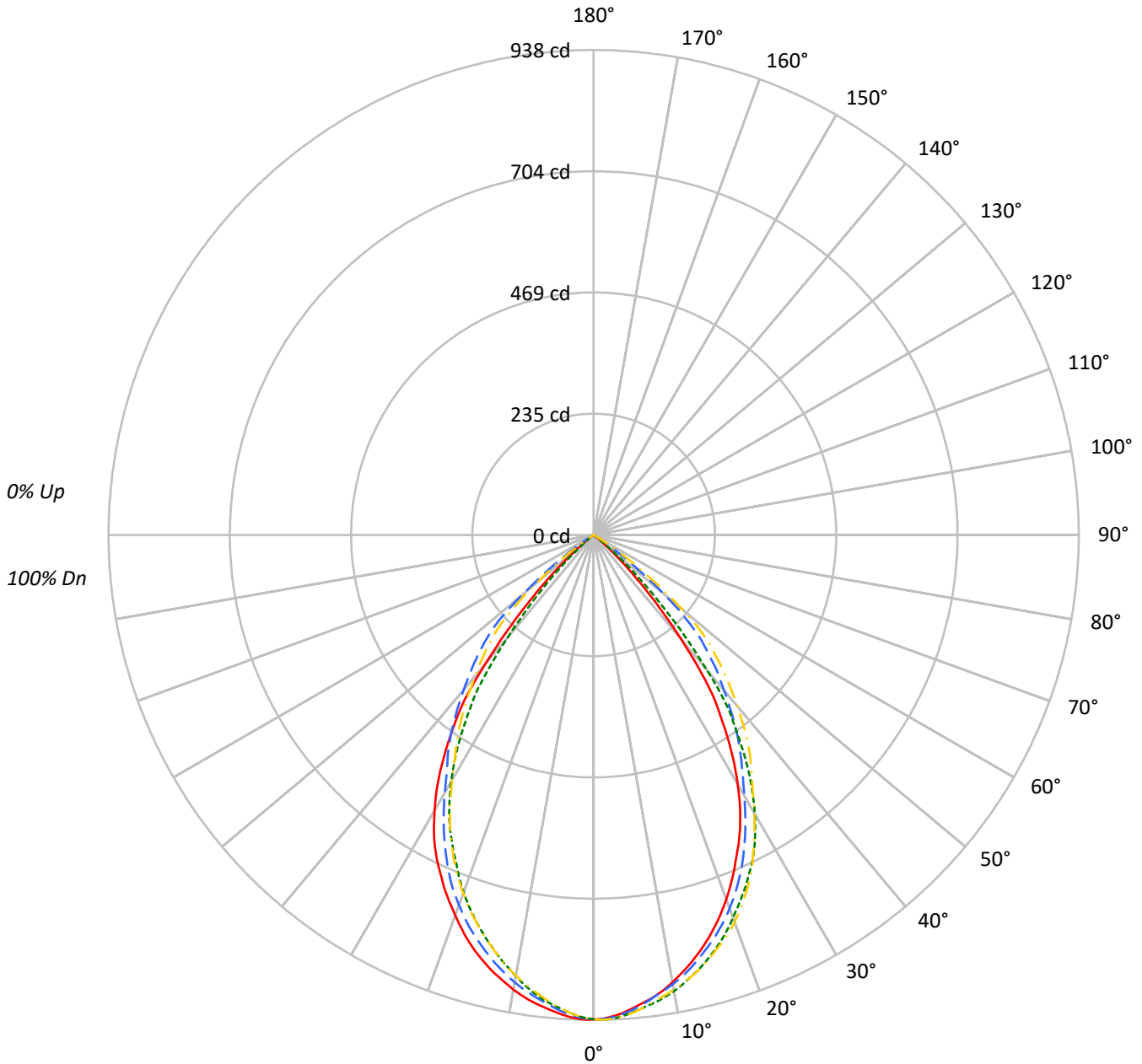
Lumens per Lamp: N/A  
Luminaire Lumens: 1112.4 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92								
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85								
3	101	94	88	84	99	92	87	83	90	85	82	87	83	80	85	82	79	78								
4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71								
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65								
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60								
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55								
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51								
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47								
10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	28610	28610	28610	28610
5°	28094	28333	28305	27956
10°	27225	27774	27681	26863
15°	25991	26869	26759	25494
20°	24364	25595	25430	23890
25°	22307	24103	23884	21913
30°	19643	21970	21698	19428
35°	15926	18587	18281	15806
40°	10458	13554	13005	10314
45°	4594	6964	6533	4490
50°	1002	2023	1805	969
55°	128	197	181	122
60°	104	159	140	98
65°	87	130	116	79
70°	71	107	98	62
75°	59	94	83	59
80°	53	88	70	53
85°	35	70	70	35

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 14594 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	7.8
10°-20°	232.8	20.9
20°-30°	313.2	28.2
30°-40°	295.9	26.6
40°-50°	158.8	14.3
50°-60°	23.0	2.1
60°-70°	1.5	0.1
70°-80°	0.7	0.1
80°-90°	0.2	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°	632.5	56.9
0°-40°	928.4	83.5
0°-60°	1110.1	99.8
0°-90°	1112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	937	937	937	937	937	
5°	917	924	924	912	917	86
15°	822	850	847	807	822	230
25°	662	716	709	650	662	302
35°	427	499	490	424	427	262
45°	106	161	151	104	106	88
55°	2	4	3	2	2	4
65°	1	2	2	1	1	1
75°	0	1	1	0	0	1
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°	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1
0.5°	937.0	937.1	937.0	937.2	937.4	937.6	937.7	938.0	937.8	937.3	936.5
1°	936.0	936.4	936.5	937.1	937.6	937.8	938.0	938.0	937.6	936.7	935.4
1.5°	934.6	935.3	935.5	936.4	937.2	937.6	937.7	937.7	936.9	935.7	934.3
2°	933.0	934.0	934.3	935.3	936.6	936.9	937.0	937.0	935.9	934.4	932.7
2.5°	931.0	932.3	932.7	934.0	935.5	935.8	936.0	935.9	934.6	932.7	930.7
3°	928.6	930.0	930.7	932.2	934.0	934.5	934.6	934.4	933.1	930.8	928.4
3.5°	925.9	927.5	928.4	930.0	932.2	932.8	932.9	932.6	931.0	928.5	925.7
4°	922.7	924.5	925.8	927.7	929.9	930.6	930.8	930.5	928.7	925.8	922.7
4.5°	919.8	921.7	922.9	924.6	927.3	928.2	928.5	928.0	926.1	923.0	919.4
5°	916.7	918.9	919.5	921.6	924.5	925.3	925.7	925.3	923.6	919.9	915.9
5.5°	913.5	915.6	916.0	918.1	921.8	922.5	922.6	922.5	921.2	916.9	912.6
6°	910.2	912.3	912.5	915.0	919.3	919.7	919.3	920.0	918.6	913.9	909.1
6.5°	907.4	909.1	908.7	911.8	916.9	917.1	916.0	917.2	916.1	910.7	905.5
7°	904.2	906.0	904.8	908.5	914.3	914.3	912.5	914.4	913.6	907.7	902.2
7.5°	900.4	902.6	900.9	905.4	912.0	911.7	909.1	911.3	910.5	904.3	898.6
8°	896.6	898.9	897.3	902.3	909.2	908.9	906.0	908.1	907.5	900.8	894.8
8.5°	892.7	894.9	893.5	898.9	906.2	906.0	902.7	904.6	904.2	897.1	891.0
9°	888.0	890.6	889.8	895.0	902.8	902.7	899.7	901.1	900.5	893.4	887.3
9.5°	883.2	886.0	886.0	891.2	899.5	899.3	896.5	897.2	896.9	889.6	883.2
10°	878.2	881.2	882.3	887.3	895.9	895.8	893.2	893.1	892.9	885.5	878.9
10.5°	873.0	876.1	878.2	883.3	892.1	892.2	889.9	888.9	888.7	881.4	874.3
11°	867.8	870.5	874.0	878.8	888.1	888.1	886.2	884.6	884.2	876.8	869.6
11.5°	862.8	865.0	869.5	874.3	883.5	883.9	882.4	879.9	879.9	872.3	864.7
12°	857.6	859.6	864.6	869.4	878.8	879.3	878.5	875.2	875.7	867.6	859.7
12.5°	852.2	854.2	859.5	864.5	874.3	874.4	874.5	870.5	871.4	863.2	854.5
13°	846.7	848.6	854.6	859.4	869.9	869.5	870.5	866.2	867.2	858.7	849.5
13.5°	840.7	843.1	849.0	854.6	865.6	865.0	866.2	861.8	862.3	854.4	843.9
14°	834.7	837.2	843.7	849.8	860.9	860.5	861.8	857.7	857.1	849.8	838.2
14.5°	828.5	831.1	838.0	845.0	855.5	855.8	857.0	853.0	852.0	844.7	832.4
15°	822.3	824.8	832.4	839.9	850.1	850.9	852.0	848.0	846.6	839.3	826.5
15.5°	815.9	818.7	826.5	834.3	844.5	845.5	846.7	842.8	841.2	833.8	820.8
16°	809.4	812.2	821.2	828.6	839.1	840.1	841.4	837.9	835.5	828.1	815.0
16.5°	802.5	805.9	815.3	822.7	833.6	834.4	836.2	832.3	829.7	822.3	809.3
17°	795.5	799.3	809.1	816.7	827.6	829.0	831.0	826.9	823.8	816.2	802.9
17.5°	788.3	792.8	802.5	810.6	821.7	823.2	825.9	821.3	817.3	810.0	796.9
18°	780.9	785.9	796.6	804.4	815.3	817.3	821.0	815.6	810.5	803.3	790.1
18.5°	773.2	778.7	789.9	798.0	808.8	811.1	815.4	809.6	803.7	796.5	783.1
19°	765.6	771.6	783.0	791.3	802.0	804.7	809.6	803.1	796.9	789.5	776.1
19.5°	757.8	764.4	776.0	784.2	794.9	798.1	803.2	796.5	789.7	782.4	768.8
20°	749.9	756.7	768.8	777.0	787.8	791.3	796.8	789.8	782.7	775.2	761.5
20.5°	741.8	749.0	761.2	769.6	780.9	784.4	789.9	782.8	775.8	767.6	754.1
21°	733.2	741.3	753.3	762.0	773.8	777.2	783.1	775.9	768.7	760.1	746.8



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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°	706.9	716.5	729.5	738.5	752.7	756.2	760.9	754.7	747.6	737.5	722.9
23°	697.4	707.5	720.9	730.5	745.6	749.1	753.2	747.5	740.6	729.4	714.2
23.5°	688.2	698.7	712.4	722.8	738.5	742.1	745.6	740.4	732.2	721.4	705.4
24°	679.2	689.2	703.4	714.8	730.6	734.2	737.9	732.3	724.2	713.2	696.2
24.5°	670.6	680.2	694.1	707.0	722.9	726.7	729.1	724.2	716.5	704.9	686.9
25°	662.2	671.5	684.8	698.8	715.5	718.7	720.2	716.1	709.0	696.6	677.2
25.5°	653.1	662.9	675.2	690.6	708.3	710.6	710.8	707.5	701.5	688.6	667.6
26°	643.7	654.9	665.5	682.3	700.5	702.7	701.4	699.2	693.5	681.0	657.8
26.5°	634.1	646.7	655.7	674.1	691.9	695.1	691.3	691.2	684.9	673.3	647.9
27°	624.0	638.0	645.4	666.4	683.1	688.0	681.1	683.6	676.0	665.5	638.0
27.5°	613.7	628.9	635.2	658.7	674.0	680.3	671.2	676.0	666.8	657.4	627.9
28°	602.8	619.2	624.5	650.4	664.5	672.3	661.3	668.0	657.2	648.7	617.7
28.5°	591.9	609.7	614.1	642.0	654.7	663.9	651.3	659.2	647.4	639.8	607.5
29°	580.5	599.9	603.5	632.7	644.4	655.0	641.7	650.7	637.1	630.5	597.1
29.5°	569.1	589.8	592.9	623.4	633.9	645.9	631.2	641.4	626.2	620.8	586.1
30°	557.2	579.2	582.6	613.7	623.2	636.5	621.3	631.8	615.5	610.8	575.1
30.5°	545.2	568.1	572.3	603.6	612.0	626.4	610.9	621.9	604.2	600.2	564.6
31°	532.1	556.9	562.2	593.2	600.6	616.2	600.6	611.7	593.1	589.6	554.5
31.5°	520.5	545.9	552.9	582.5	588.8	605.6	590.1	600.9	581.2	578.6	544.8
32°	507.5	534.6	543.5	571.6	576.9	594.8	580.3	590.3	569.5	567.5	535.8
32.5°	494.9	522.8	534.2	560.8	564.8	583.8	570.7	579.2	556.7	556.3	527.0
33°	481.3	511.2	524.9	549.9	552.4	572.6	561.8	568.0	544.3	545.0	518.9
33.5°	468.6	499.3	515.5	538.7	539.6	561.1	553.3	556.4	531.0	532.9	510.5
34°	454.8	487.1	506.5	527.2	526.3	549.8	545.0	544.7	517.6	521.2	502.1
34.5°	441.3	474.7	497.5	515.5	512.4	537.6	536.6	532.9	503.9	508.7	493.2
35°	427.3	462.0	488.4	504.1	498.7	525.3	528.4	520.9	490.5	496.3	484.7
35.5°	414.5	449.2	479.3	492.1	485.2	512.8	519.6	508.9	476.5	483.6	475.4
36°	401.5	436.5	469.5	479.9	471.4	500.4	510.5	496.3	462.9	470.9	466.3
36.5°	388.9	423.4	459.8	467.5	457.9	487.1	501.2	483.5	449.9	457.8	456.8
37°	372.6	410.9	450.0	454.9	444.9	473.8	491.6	470.8	436.7	445.1	447.3
37.5°	354.3	398.5	440.3	442.3	432.4	460.6	481.6	458.0	421.3	432.0	437.6
38°	336.0	386.4	430.3	429.6	416.6	447.5	471.6	445.4	405.1	419.4	428.2
38.5°	317.9	374.0	420.4	417.3	399.4	434.8	461.7	432.6	386.8	407.1	418.8
39°	299.6	357.3	411.0	405.8	381.2	422.6	451.8	420.8	367.5	394.9	409.5
39.5°	281.3	340.3	401.4	393.8	360.5	411.1	441.6	408.7	346.7	381.0	400.0
40°	262.4	323.4	392.2	382.7	340.1	396.5	431.7	396.4	326.3	365.3	390.9
40.5°	243.7	306.4	382.6	369.5	319.9	380.7	422.0	383.3	306.6	348.5	381.8
41°	226.4	289.5	373.5	353.0	300.5	363.8	412.3	368.0	287.7	330.7	372.8
41.5°	209.2	271.5	368.5	336.3	281.9	345.1	402.9	351.8	269.4	312.4	364.1
42°	193.3	254.3	358.6	319.7	263.3	326.1	393.2	334.4	250.7	294.3	355.2
42.5°	177.9	237.0	348.6	303.2	245.9	307.5	384.1	316.7	233.1	277.2	346.8
43°	163.0	219.8	338.7	286.5	227.1	289.6	375.0	299.3	215.1	260.4	338.3
43.5°	147.6	203.3	328.7	269.7	209.9	272.3	365.7	282.1	197.8	244.4	329.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	106.4	158.8	302.5	222.7	161.3	221.5	338.0	233.8	151.3	195.9	303.4
45.5°	93.8	144.3	293.8	207.0	147.0	204.9	328.6	217.5	137.1	180.8	294.9
46°	82.3	130.6	284.3	192.3	132.2	188.9	319.4	201.5	123.3	165.7	286.3
46.5°	70.8	117.1	273.1	177.1	119.0	173.8	310.4	186.1	110.2	152.4	276.4
47°	60.3	104.5	260.1	162.9	107.2	159.1	302.0	171.1	98.8	138.3	266.8
47.5°	50.5	92.4	246.8	148.8	95.4	144.6	291.3	156.8	87.4	125.5	255.6
48°	42.4	80.8	233.7	136.0	83.7	130.9	280.7	142.8	75.8	112.4	244.6
48.5°	35.2	69.9	221.0	122.7	71.9	117.6	268.6	129.4	64.5	101.1	229.8
49°	30.4	59.7	206.3	110.3	60.2	105.9	254.0	116.3	54.9	89.6	214.0
49.5°	25.8	50.2	191.4	98.1	50.9	94.3	238.9	104.9	46.2	78.3	197.0
50°	21.1	41.6	175.2	86.6	42.6	82.7	222.3	93.5	38.0	67.0	180.5
50.5°	16.5	34.1	158.8	75.2	34.9	71.1	206.0	82.2	30.7	57.4	164.8
51°	12.9	29.5	142.9	65.2	28.1	59.5	189.5	70.8	24.3	48.6	149.5
51.5°	9.3	24.9	128.0	55.6	22.4	50.4	173.4	59.5	20.2	40.6	134.8
52°	5.8	20.2	113.9	46.9	18.7	42.1	157.2	50.2	16.0	32.9	120.3
52.5°	3.6	15.6	100.6	38.9	15.0	34.2	142.2	41.6	11.9	26.0	108.3
53°	3.2	12.0	87.9	33.1	11.2	27.5	127.2	34.0	7.8	20.1	96.2
53.5°	3.0	8.7	75.9	27.4	7.6	21.7	113.1	26.9	3.8	16.6	84.1
54°	2.8	5.3	65.0	21.5	4.0	18.0	100.8	20.8	3.6	13.2	72.0
54.5°	2.6	3.0	55.1	15.7	3.8	14.3	88.4	17.3	3.5	9.7	59.9
55°	2.4	2.8	46.1	10.0	3.7	10.6	76.1	13.7	3.4	6.2	50.7
55.5°	2.3	2.6	38.2	5.8	3.5	6.9	63.8	10.0	3.3	2.9	42.4
56°	2.2	2.4	32.8	3.2	3.4	3.3	53.7	6.4	3.2	2.8	34.7
56.5°	2.2	2.2	27.5	3.0	3.3	3.1	44.4	3.0	3.1	2.7	28.1
57°	2.1	2.1	22.0	2.9	3.2	3.0	36.1	2.9	3.0	2.6	22.3
57.5°	2.0	2.1	16.7	2.8	3.1	2.9	28.8	2.8	2.9	2.6	17.6
58°	1.9	2.0	11.4	2.7	3.0	2.8	22.5	2.8	2.8	2.4	14.8
58.5°	1.9	1.9	8.8	2.6	2.9	2.7	17.3	2.7	2.7	2.3	12.1
59°	1.8	1.9	6.7	2.4	2.8	2.7	14.5	2.6	2.6	2.2	9.4
59.5°	1.8	1.8	5.2	2.3	2.7	2.6	11.8	2.4	2.4	2.2	6.7
60°	1.7	1.8	4.0	2.3	2.6	2.4	9.3	2.3	2.3	2.1	4.1
60.5°	1.6	1.7	3.4	2.2	2.4	2.3	6.6	2.3	2.3	2.0	3.1
61°	1.6	1.7	2.9	2.1	2.4	2.2	4.0	2.2	2.2	2.0	2.2
61.5°	1.5	1.6	2.3	2.1	2.3	2.2	3.0	2.1	2.1	1.9	1.8
62°	1.5	1.6	1.7	2.0	2.2	2.1	2.3	2.1	2.0	1.8	1.6
62.5°	1.4	1.5	1.7	1.9	2.1	2.0	1.9	2.0	2.0	1.8	1.6
63°	1.4	1.5	1.6	1.9	2.1	2.0	1.8	1.9	1.9	1.7	1.5
63.5°	1.3	1.4	1.6	1.8	2.0	1.9	1.8	1.9	1.8	1.7	1.5
64°	1.3	1.4	1.5	1.8	1.9	1.9	1.7	1.8	1.8	1.6	1.4
64.5°	1.2	1.3	1.5	1.7	1.9	1.8	1.7	1.7	1.7	1.6	1.4
65°	1.2	1.3	1.4	1.6	1.8	1.7	1.6	1.7	1.6	1.5	1.3
65.5°	1.1	1.3	1.4	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.3
66°	1.1	1.2	1.3	1.5	1.7	1.6	1.5	1.6	1.5	1.4	1.2





TEST NUMBER: P775866  
 CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.1	1.2	1.4	1.5	1.5	1.4	1.4	1.3	1.3	1.1
68°	0.9	1.0	1.2	1.3	1.4	1.4	1.3	1.3	1.3	1.2	1.1
68.5°	0.9	1.0	1.1	1.3	1.4	1.4	1.3	1.3	1.2	1.2	1.0
69°	0.9	0.9	1.1	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.0
69.5°	0.8	0.9	1.0	1.2	1.3	1.3	1.2	1.2	1.1	1.1	1.0
70°	0.8	0.9	1.0	1.1	1.2	1.2	1.1	1.1	1.1	1.0	0.9
70.5°	0.8	0.8	0.9	1.1	1.2	1.2	1.1	1.1	1.1	1.0	0.9
71°	0.7	0.8	0.9	1.0	1.2	1.1	1.0	1.0	1.0	1.0	0.8
71.5°	0.7	0.8	0.9	1.0	1.1	1.1	1.0	1.0	1.0	0.9	0.8
72°	0.7	0.7	0.8	1.0	1.1	1.0	0.9	1.0	0.9	0.9	0.8
72.5°	0.7	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.7
73°	0.6	0.7	0.7	0.9	1.0	1.0	0.8	0.9	0.9	0.8	0.7
73.5°	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.6
74°	0.6	0.6	0.7	0.8	0.9	0.9	0.8	0.8	0.8	0.7	0.6
74.5°	0.6	0.6	0.6	0.8	0.9	0.9	0.7	0.8	0.8	0.7	0.6
75°	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.5
75.5°	0.5	0.5	0.6	0.7	0.8	0.8	0.6	0.7	0.7	0.6	0.5
76°	0.5	0.5	0.5	0.7	0.8	0.7	0.6	0.7	0.7	0.6	0.5
76.5°	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.5
77°	0.4	0.5	0.5	0.6	0.7	0.7	0.5	0.6	0.6	0.5	0.4
77.5°	0.4	0.4	0.4	0.6	0.7	0.6	0.5	0.6	0.6	0.5	0.4
78°	0.4	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.4
78.5°	0.4	0.4	0.4	0.5	0.6	0.6	0.4	0.5	0.5	0.5	0.4
79°	0.4	0.4	0.4	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.3
79.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.3
80°	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3
80.5°	0.3	0.3	0.3	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.3
81°	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.2
81.5°	0.2	0.3	0.2	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.2
82°	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2
82.5°	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.1
84°	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1
84.5°	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1
85°	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1
85.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1
86°	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
86.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
87°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	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: P775866  
CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-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: P775866

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	937.1	937.1	937.1	937.1	937.1	937.1
0.5°	936.3	935.6	935.8	936.0	936.6	937.0
1°	935.1	934.3	934.1	934.6	935.4	936.0
1.5°	933.5	932.3	932.2	932.7	933.8	934.6
2°	931.6	930.0	929.6	930.3	931.7	933.0
2.5°	929.3	927.3	926.9	927.7	929.3	931.0
3°	926.6	924.3	924.0	924.7	926.7	928.6
3.5°	923.6	921.3	920.5	921.6	923.5	925.9
4°	920.6	918.4	917.6	917.8	920.1	922.7
4.5°	917.8	915.4	914.2	914.0	916.5	919.8
5°	914.7	912.2	910.7	910.3	912.9	916.7
5.5°	911.4	908.6	907.0	906.2	909.1	913.5
6°	907.9	905.2	903.2	902.1	905.0	910.2
6.5°	904.3	901.2	899.3	898.0	901.1	907.4
7°	900.6	897.3	894.8	893.7	897.5	904.2
7.5°	896.4	892.6	890.2	889.2	893.4	900.4
8°	892.0	887.9	885.4	884.9	889.2	896.6
8.5°	887.1	882.8	880.1	880.0	884.8	892.7
9°	882.0	877.5	874.8	875.3	880.2	888.0
9.5°	876.7	872.1	869.1	870.5	875.4	883.2
10°	871.3	866.5	863.6	865.5	870.3	878.2
10.5°	865.9	860.8	857.6	860.4	865.0	873.0
11°	860.2	855.2	851.5	855.1	859.6	867.8
11.5°	854.5	849.7	845.5	849.6	854.2	862.8
12°	848.9	844.0	839.9	843.9	848.6	857.6
12.5°	843.5	837.9	834.0	838.1	843.2	852.2
13°	838.0	831.7	828.3	832.1	837.6	846.7
13.5°	831.9	825.5	821.7	826.0	832.2	840.7
14°	826.2	819.2	815.3	819.6	826.6	834.7
14.5°	820.0	812.9	808.8	813.4	820.7	828.5
15°	814.0	806.6	802.5	807.1	814.5	822.3
15.5°	807.6	800.1	795.9	800.8	808.0	815.9
16°	801.5	793.3	789.4	794.4	801.6	809.4
16.5°	795.2	786.8	782.6	787.7	795.1	802.5
17°	788.8	779.9	776.0	781.3	788.3	795.5
17.5°	782.1	772.7	769.2	774.4	781.5	788.3
18°	775.5	765.4	762.0	767.4	774.4	780.9
18.5°	768.3	758.2	755.0	760.4	767.0	773.2
19°	761.2	750.7	747.5	752.8	759.6	765.6
19.5°	754.0	743.0	740.1	745.5	751.8	757.8
20°	746.9	735.3	732.3	737.8	743.6	749.9
20.5°	739.7	727.1	724.7	730.0	735.6	741.8
21°	731.9	718.8	717.0	721.9	727.3	733.2



TEST NUMBER: P775866

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	707.1	692.6	692.1	697.2	701.7	706.9
23°	698.6	683.5	683.5	688.3	692.7	697.4
23.5°	689.5	675.3	674.3	679.7	683.7	688.2
24°	680.4	667.1	665.2	670.3	674.5	679.2
24.5°	671.0	658.8	656.8	661.2	664.8	670.6
25°	662.1	650.5	648.4	651.6	654.9	662.2
25.5°	653.4	642.2	640.6	642.3	645.7	653.1
26°	645.3	633.5	632.4	632.2	636.7	643.7
26.5°	637.5	624.4	624.2	622.2	628.2	634.1
27°	629.6	614.9	616.0	611.9	619.5	624.0
27.5°	621.3	604.9	607.4	601.2	610.4	613.7
28°	612.9	594.5	598.6	590.4	601.2	602.8
28.5°	603.9	584.1	589.3	579.8	591.7	591.9
29°	594.7	573.5	579.7	568.9	581.8	580.5
29.5°	585.0	562.2	569.9	558.2	571.5	569.1
30°	575.3	551.1	559.6	547.3	561.0	557.2
30.5°	565.1	539.5	549.1	537.1	550.3	545.2
31°	555.0	527.5	538.2	526.9	539.3	532.1
31.5°	544.2	515.4	527.2	517.0	528.0	520.5
32°	533.8	503.2	516.1	507.0	516.6	507.5
32.5°	522.8	490.4	505.0	497.7	505.1	494.9
33°	511.7	477.6	493.2	488.4	493.5	481.3
33.5°	500.6	464.5	481.1	479.6	481.9	468.6
34°	489.3	451.0	469.1	470.7	470.3	454.8
34.5°	477.3	437.5	456.3	461.4	458.0	441.3
35°	465.7	424.1	443.6	452.0	446.0	427.3
35.5°	453.8	411.5	430.9	442.6	433.9	414.5
36°	441.9	399.2	418.1	432.7	421.7	401.5
36.5°	429.5	386.7	405.1	423.0	409.5	388.9
37°	417.3	370.7	392.8	413.5	397.2	372.6
37.5°	405.1	352.1	380.5	403.9	384.9	354.3
38°	393.2	333.4	369.8	394.3	372.8	336.0
38.5°	382.0	314.8	353.2	384.6	359.7	317.9
39°	371.6	296.1	336.4	375.5	346.7	299.6
39.5°	360.2	277.4	319.7	365.0	333.5	281.3
40°	345.8	258.8	303.1	356.7	320.4	262.4
40.5°	329.3	240.3	286.4	348.2	307.3	243.7
41°	312.6	222.6	269.7	339.7	291.6	226.4
41.5°	295.9	205.5	252.5	331.2	276.1	209.2
42°	279.8	189.8	235.4	322.7	260.8	193.3
42.5°	263.5	174.8	218.4	314.0	244.8	177.9
43°	246.9	159.6	202.3	305.5	228.9	163.0
43.5°	230.1	144.6	187.0	296.8	213.1	147.6



TEST NUMBER: P775866

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	183.6	104.0	144.5	272.2	170.0	106.4
45.5°	169.3	92.0	130.9	262.5	156.5	93.8
46°	155.2	80.3	118.1	251.9	143.2	82.3
46.5°	141.4	69.2	105.5	238.6	129.5	70.8
47°	128.0	58.7	93.8	225.7	117.1	60.3
47.5°	114.9	49.4	82.1	213.3	104.6	50.5
48°	103.6	41.3	71.1	200.5	93.0	42.4
48.5°	92.3	34.5	60.9	186.7	81.5	35.2
49°	81.0	29.7	51.5	170.8	71.0	30.4
49.5°	69.7	25.0	43.2	155.0	60.5	25.8
50°	58.4	20.4	35.7	140.6	51.1	21.1
50.5°	49.1	15.8	31.0	126.6	42.6	16.5
51°	40.8	12.1	26.4	113.7	35.3	12.9
51.5°	33.7	8.6	21.7	101.3	30.7	9.3
52°	27.8	5.2	17.1	89.5	26.1	5.8
52.5°	22.8	3.1	12.5	78.5	21.5	3.6
53°	18.6	2.9	8.9	68.2	16.9	3.2
53.5°	15.4	2.8	5.5	58.4	12.5	3.0
54°	12.2	2.6	3.1	49.8	8.9	2.8
54.5°	9.0	2.4	2.9	42.0	5.6	2.6
55°	5.8	2.3	2.6	34.8	3.2	2.4
55.5°	2.7	2.2	2.3	29.6	2.9	2.3
56°	2.1	2.1	2.1	24.4	2.6	2.2
56.5°	2.1	2.1	2.0	19.2	2.2	2.2
57°	2.0	2.0	1.9	14.0	2.0	2.1
57.5°	1.9	1.9	1.9	10.6	1.9	2.0
58°	1.9	1.9	1.8	8.1	1.8	1.9
58.5°	1.8	1.8	1.8	5.9	1.8	1.9
59°	1.8	1.7	1.7	4.4	1.7	1.8
59.5°	1.7	1.7	1.7	3.9	1.7	1.8
60°	1.7	1.6	1.6	3.3	1.6	1.7
60.5°	1.6	1.6	1.6	2.7	1.6	1.6
61°	1.6	1.5	1.5	2.0	1.5	1.6
61.5°	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.5	1.4	1.4	1.4	1.4	1.5
62.5°	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.3	1.3	1.3	1.4	1.4
63.5°	1.3	1.2	1.3	1.3	1.3	1.3
64°	1.3	1.2	1.2	1.3	1.3	1.3
64.5°	1.2	1.1	1.2	1.2	1.2	1.2
65°	1.2	1.1	1.2	1.2	1.2	1.2
65.5°	1.2	1.1	1.1	1.1	1.2	1.1
66°	1.1	1.0	1.1	1.1	1.1	1.1



TEST NUMBER: P775866

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	0.9	1.0	1.0	1.0	1.0
68°	0.9	0.9	0.9	1.0	1.0	0.9
68.5°	0.9	0.8	0.9	0.9	0.9	0.9
69°	0.9	0.8	0.9	0.9	0.9	0.9
69.5°	0.8	0.8	0.8	0.9	0.9	0.8
70°	0.8	0.7	0.8	0.8	0.8	0.8
70.5°	0.8	0.7	0.8	0.8	0.8	0.8
71°	0.7	0.7	0.7	0.7	0.8	0.7
71.5°	0.7	0.7	0.7	0.7	0.7	0.7
72°	0.7	0.6	0.7	0.7	0.7	0.7
72.5°	0.7	0.6	0.6	0.6	0.7	0.7
73°	0.6	0.6	0.6	0.6	0.7	0.6
73.5°	0.6	0.6	0.6	0.6	0.6	0.6
74°	0.6	0.5	0.6	0.5	0.6	0.6
74.5°	0.5	0.5	0.5	0.5	0.6	0.6
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.4	0.5	0.4	0.5	0.5
76.5°	0.5	0.4	0.4	0.4	0.5	0.5
77°	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4
78°	0.4	0.4	0.4	0.3	0.4	0.4
78.5°	0.4	0.4	0.4	0.3	0.4	0.4
79°	0.3	0.3	0.3	0.3	0.4	0.4
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.2	0.3	0.3
81°	0.3	0.3	0.3	0.2	0.3	0.3
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.1	0.2	0.2
83.5°	0.2	0.2	0.2	0.1	0.1	0.2
84°	0.1	0.2	0.1	0.1	0.1	0.1
84.5°	0.1	0.1	0.1	0.1	0.1	0.1
85°	0.1	0.1	0.1	0.1	0.1	0.1
85.5°	0.1	0.1	0.1	0.1	0.1	0.1
86°	0.1	0.1	0.1	0.1	0.1	0.1
86.5°	0.1	0.1	0.1	0.0	0.0	0.1
87°	0.0	0.1	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: P775866  
CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-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°	724.7	733.1	745.6	754.1	766.8	770.2	776.2	768.8	761.7	752.5	739.4
22°	716.1	725.0	737.6	746.2	759.8	763.1	768.6	761.7	754.7	745.1	731.4



44°	133.1	188.2	319.8	254.0	192.3	255.4	356.6	265.6	181.2	227.7	320.9
44.5°	119.2	173.3	310.8	238.1	177.0	238.8	347.2	249.8	165.8	211.9	312.2



66.5°	1.0	1.2	1.3	1.5	1.6	1.6	1.4	1.5	1.4	1.4	1.2
67°	1.0	1.1	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.3	1.2



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	723.9	710.5	708.6	714.0	719.0	724.7
22°	715.6	701.5	700.3	705.7	710.5	716.1



44°	213.7	130.7	172.8	288.3	197.8	133.1
44.5°	198.4	116.8	158.5	279.7	183.6	119.2

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66.5°	1.1	1.0	1.0	1.1	1.1	1.0
67°	1.0	0.9	1.0	1.0	1.0	1.0

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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)