

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: P775865

Luminaire Tested: HCDJBL510CSD-HCD8TRC-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775865
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-2700K
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

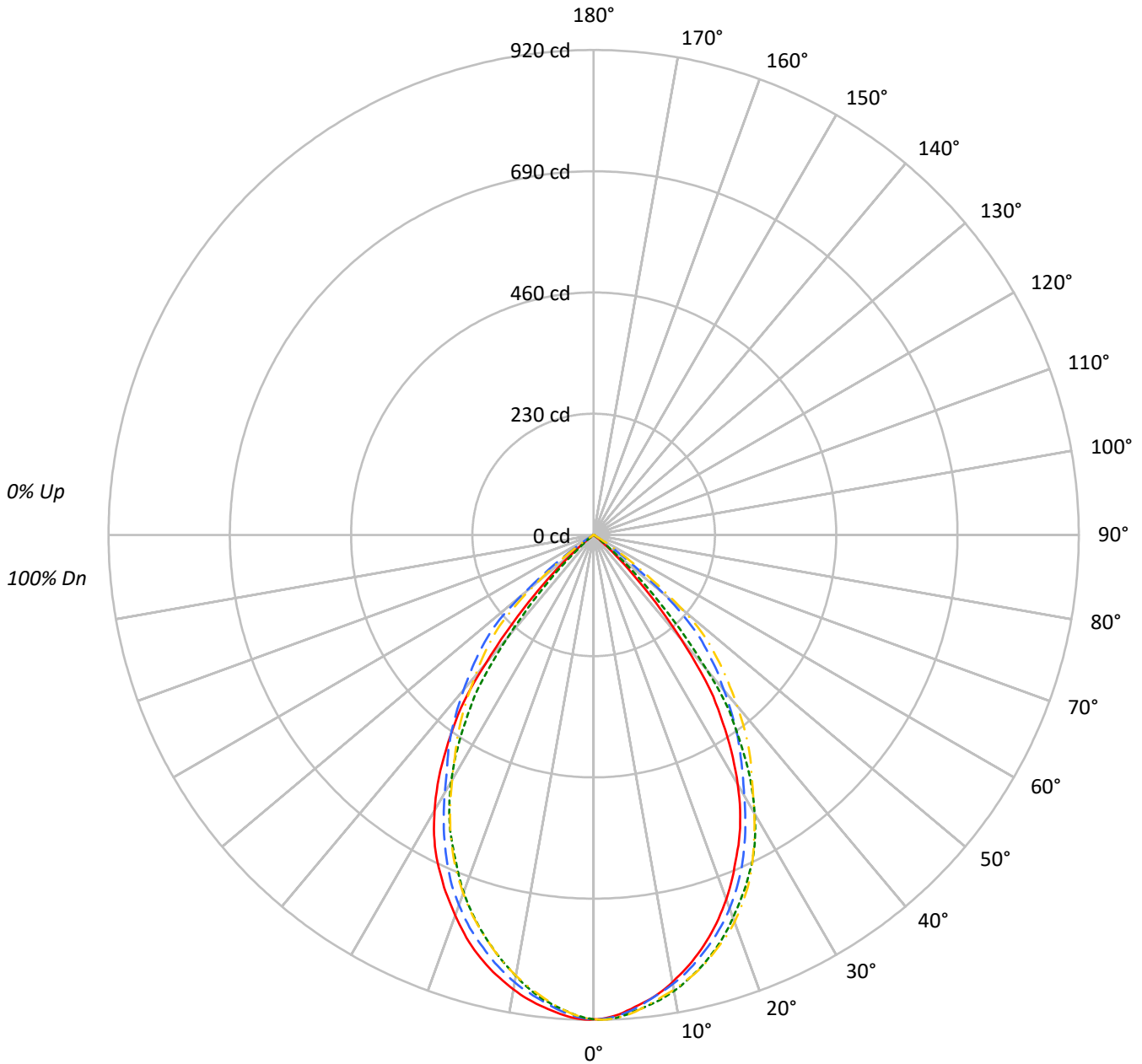
Lumens per Lamp: N/A
Luminaire Lumens: 1091.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85					85			
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78					78			
4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60					60			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51					51			
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
10	67	56	50	46	66	56	50	46	55	50	46	54	49	45	54	49	45	44					44			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28057	28057	28057	28057
5°	27552	27788	27760	27414
10°	26698	27238	27145	26345
15°	25491	26351	26244	25001
20°	23893	25101	24939	23428
25°	21876	23634	23422	21492
30°	19266	21543	21279	19054
35°	15616	18229	17927	15501
40°	10259	13295	12753	10115
45°	4503	6830	6407	4404
50°	983	1981	1767	950
55°	128	192	176	122
60°	104	153	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: 14313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	7.8
10°-20°	228.3	20.9
20°-30°	307.1	28.1
30°-40°	290.2	26.6
40°-50°	155.7	14.3
50°-60°	22.5	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°	620.3	56.9
0°-40°	910.4	83.4
0°-60°	1088.7	99.8
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	919	919	919	919	919	
5°	899	907	906	894	899	85
15°	806	834	830	791	806	226
25°	649	702	695	638	649	297
35°	419	489	481	416	419	257
45°	104	158	148	102	104	87
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°	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0
0.5°	918.9	919.0	918.9	919.1	919.3	919.5	919.6	919.9	919.7	919.2	918.4
1°	918.0	918.3	918.4	919.0	919.5	919.7	919.9	919.9	919.5	918.6	917.4
1.5°	916.6	917.3	917.5	918.3	919.1	919.5	919.6	919.6	918.8	917.7	916.3
2°	915.0	916.0	916.3	917.3	918.5	918.8	918.9	918.9	917.9	916.4	914.7
2.5°	913.1	914.3	914.7	916.0	917.5	917.8	918.0	917.9	916.6	914.7	912.8
3°	910.7	912.1	912.8	914.2	916.0	916.5	916.6	916.4	915.1	912.9	910.5
3.5°	908.1	909.6	910.5	912.1	914.2	914.8	914.9	914.6	913.1	910.6	907.9
4°	904.9	906.7	908.0	909.8	912.0	912.7	912.9	912.6	910.8	908.0	904.9
4.5°	902.1	903.9	905.1	906.8	909.4	910.3	910.6	910.1	908.3	905.2	901.7
5°	899.0	901.2	901.8	903.8	906.7	907.5	907.9	907.5	905.8	902.2	898.3
5.5°	895.9	898.0	898.4	900.4	904.0	904.7	904.8	904.7	903.5	899.2	895.0
6°	892.6	894.7	894.9	897.4	901.6	902.0	901.6	902.3	900.9	896.3	891.5
6.5°	889.8	891.5	891.1	894.1	899.2	899.4	898.4	899.5	898.5	893.1	888.0
7°	886.7	888.5	887.3	890.9	896.7	896.7	894.9	896.8	896.0	890.1	884.7
7.5°	883.0	885.1	883.5	887.9	894.3	894.0	891.5	893.7	892.9	886.8	881.2
8°	879.3	881.5	879.9	884.8	891.6	891.3	888.5	890.5	889.9	883.4	877.5
8.5°	875.4	877.6	876.2	881.5	888.7	888.5	885.2	887.1	886.7	879.7	873.8
9°	870.8	873.4	872.6	877.7	885.3	885.2	882.3	883.7	883.1	876.1	870.1
9.5°	866.1	868.9	868.9	874.0	882.1	881.9	879.2	879.8	879.5	872.4	866.1
10°	861.2	864.2	865.2	870.1	878.6	878.5	875.9	875.8	875.6	868.4	861.9
10.5°	856.1	859.2	861.2	866.2	874.8	874.9	872.7	871.7	871.5	864.4	857.4
11°	851.0	853.7	857.1	861.8	870.9	870.9	869.1	867.5	867.1	859.9	852.8
11.5°	846.1	848.3	852.7	857.4	866.4	866.8	865.3	862.9	862.9	855.4	848.0
12°	841.0	843.0	847.9	852.6	861.8	862.3	861.5	858.3	858.8	850.8	843.1
12.5°	835.8	837.7	842.9	847.8	857.4	857.5	857.6	853.7	854.6	846.5	838.0
13°	830.4	832.2	838.1	842.8	853.1	852.7	853.7	849.5	850.5	842.1	833.1
13.5°	824.5	826.8	832.6	838.1	848.9	848.3	849.5	845.2	845.7	837.9	827.6
14°	818.6	821.1	827.4	833.4	844.3	843.9	845.2	841.1	840.6	833.4	822.0
14.5°	812.5	815.1	821.8	828.7	839.0	839.3	840.5	836.5	835.6	828.4	816.4
15°	806.5	808.9	816.4	823.7	833.7	834.5	835.6	831.6	830.3	823.1	810.6
15.5°	800.1	802.9	810.6	818.2	828.2	829.2	830.4	826.5	825.0	817.7	805.0
16°	793.7	796.5	805.4	812.6	822.9	823.9	825.2	821.7	819.4	812.1	799.2
16.5°	787.0	790.3	799.5	806.9	817.5	818.3	820.1	816.3	813.7	806.5	793.6
17°	780.1	783.8	793.4	801.0	811.7	813.0	815.0	811.0	807.9	800.4	787.4
17.5°	773.1	777.5	787.0	794.9	805.9	807.3	810.0	805.5	801.6	794.3	781.5
18°	765.8	770.7	781.2	788.8	799.5	801.6	805.2	799.8	794.8	787.8	774.8
18.5°	758.3	763.7	774.6	782.6	793.1	795.4	799.6	793.9	788.1	781.1	768.0
19°	750.8	756.7	767.9	776.0	786.5	789.1	793.9	787.6	781.5	774.2	761.1
19.5°	743.2	749.6	761.0	769.0	779.5	782.7	787.7	781.1	774.4	767.3	754.0
20°	735.4	742.1	754.0	762.0	772.6	776.0	781.4	774.5	767.6	760.2	746.8
20.5°	727.5	734.6	746.5	754.7	765.8	769.2	774.6	767.7	760.8	752.8	739.6
21°	719.1	727.0	738.8	747.3	758.9	762.2	768.0	760.9	753.9	745.4	732.4



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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°	693.2	702.6	715.5	724.3	738.2	741.6	746.2	740.1	733.2	723.3	709.0
23°	683.9	693.8	707.0	716.4	731.2	734.7	738.7	733.1	726.3	715.4	700.4
23.5°	674.9	685.2	698.6	708.9	724.3	727.8	731.2	726.1	718.1	707.5	691.7
24°	666.1	675.9	689.8	701.0	716.5	720.1	723.7	718.2	710.3	699.4	682.7
24.5°	657.7	667.1	680.7	693.3	709.0	712.7	715.1	710.3	702.6	691.3	673.6
25°	649.4	658.5	671.6	685.3	701.6	704.8	706.2	702.2	695.3	683.1	664.1
25.5°	640.5	650.1	662.2	677.2	694.6	696.8	697.0	693.8	687.9	675.3	654.7
26°	631.3	642.3	652.7	669.1	686.9	689.1	687.8	685.7	680.1	667.8	645.1
26.5°	621.9	634.2	643.1	661.1	678.5	681.7	677.9	677.8	671.7	660.3	635.4
27°	611.9	625.7	633.0	653.5	669.9	674.7	667.9	670.4	662.9	652.7	625.7
27.5°	601.8	616.8	623.0	646.0	661.0	667.2	658.2	662.9	653.9	644.7	615.8
28°	591.1	607.2	612.5	637.9	651.7	659.3	648.5	655.1	644.5	636.2	605.7
28.5°	580.5	597.9	602.2	629.6	642.1	651.1	638.7	646.5	634.9	627.5	595.7
29°	569.3	588.3	591.8	620.5	632.0	642.4	629.3	638.2	624.8	618.4	585.5
29.5°	558.1	578.4	581.4	611.3	621.7	633.5	619.1	629.0	614.2	608.8	574.8
30°	546.5	568.0	571.3	601.8	611.1	624.2	609.3	619.6	603.6	599.0	564.0
30.5°	534.7	557.1	561.3	591.9	600.1	614.4	599.1	609.8	592.5	588.6	553.7
31°	521.9	546.2	551.4	581.7	589.0	604.3	589.0	599.9	581.6	578.2	543.8
31.5°	510.4	535.4	542.2	571.2	577.4	593.9	578.7	589.3	570.0	567.4	534.3
32°	497.7	524.3	533.0	560.6	565.8	583.3	569.1	578.9	558.5	556.6	525.5
32.5°	485.3	512.7	523.9	550.0	553.9	572.5	559.7	568.0	546.0	545.6	516.8
33°	472.0	501.3	514.7	539.3	541.8	561.5	551.0	557.0	533.8	534.5	508.8
33.5°	459.6	489.6	505.5	528.3	529.2	550.3	542.6	545.7	520.8	522.7	500.6
34°	446.0	477.7	496.7	517.0	516.1	539.2	534.5	534.2	507.6	511.1	492.4
34.5°	432.8	465.5	487.9	505.5	502.5	527.3	526.3	522.7	494.1	498.8	483.7
35°	419.0	453.1	479.0	494.3	489.1	515.1	518.2	510.8	481.0	486.7	475.3
35.5°	406.5	440.6	470.0	482.6	475.8	502.9	509.5	499.0	467.3	474.3	466.2
36°	393.7	428.1	460.4	470.6	462.3	490.7	500.6	486.7	454.0	461.8	457.3
36.5°	381.4	415.2	450.9	458.5	449.1	477.7	491.5	474.2	441.2	449.0	448.0
37°	365.4	402.9	441.3	446.1	436.3	464.7	482.1	461.7	428.3	436.5	438.7
37.5°	347.5	390.8	431.8	433.8	424.1	451.7	472.3	449.2	413.1	423.6	429.2
38°	329.5	378.9	421.9	421.3	408.5	438.9	462.5	436.8	397.3	411.3	419.9
38.5°	311.7	366.8	412.2	409.2	391.7	426.5	452.8	424.3	379.3	399.2	410.7
39°	293.8	350.4	403.0	397.9	373.8	414.4	443.1	412.6	360.4	387.3	401.6
39.5°	275.9	333.8	393.6	386.2	353.6	403.1	433.1	400.8	340.0	373.6	392.3
40°	257.4	317.1	384.6	375.3	333.6	388.8	423.3	388.7	320.0	358.3	383.3
40.5°	239.0	300.5	375.2	362.4	313.7	373.4	413.8	375.9	300.7	341.8	374.4
41°	222.0	283.9	366.3	346.2	294.7	356.8	404.3	360.9	282.1	324.3	365.6
41.5°	205.1	266.3	361.4	329.9	276.5	338.5	395.1	345.0	264.2	306.3	357.1
42°	189.6	249.4	351.7	313.5	258.2	319.8	385.6	327.9	245.9	288.6	348.4
42.5°	174.5	232.4	341.9	297.3	241.2	301.5	376.7	310.6	228.6	271.9	340.1
43°	159.9	215.5	332.2	281.0	222.7	284.0	367.8	293.5	210.9	255.4	331.8
43.5°	144.8	199.4	322.3	264.5	205.8	267.1	358.7	276.7	194.0	239.7	323.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	104.3	155.8	296.6	218.4	158.2	217.2	331.5	229.2	148.4	192.1	297.5
45.5°	92.0	141.6	288.1	203.0	144.2	200.9	322.2	213.3	134.4	177.3	289.2
46°	80.7	128.0	278.8	188.6	129.6	185.3	313.2	197.6	120.9	162.5	280.8
46.5°	69.5	114.8	267.8	173.7	116.7	170.5	304.4	182.5	108.1	149.5	271.1
47°	59.2	102.5	255.1	159.8	105.1	156.1	296.2	167.8	96.9	135.6	261.7
47.5°	49.6	90.6	242.1	146.0	93.6	141.9	285.7	153.8	85.7	123.0	250.7
48°	41.5	79.3	229.1	133.3	82.1	128.3	275.3	140.0	74.4	110.2	239.9
48.5°	34.5	68.6	216.7	120.3	70.5	115.3	263.4	126.9	63.3	99.1	225.3
49°	29.8	58.6	202.3	108.2	59.1	103.8	249.1	114.0	53.9	87.9	209.8
49.5°	25.3	49.3	187.7	96.2	50.0	92.5	234.2	102.9	45.3	76.8	193.2
50°	20.7	40.8	171.8	84.9	41.7	81.1	218.0	91.7	37.2	65.7	177.0
50.5°	16.2	33.4	155.8	73.8	34.2	69.8	202.0	80.6	30.1	56.3	161.6
51°	12.6	28.9	140.1	64.0	27.5	58.4	185.8	69.5	23.8	47.7	146.7
51.5°	9.1	24.4	125.5	54.6	21.9	49.5	170.1	58.4	19.8	39.8	132.2
52°	5.7	19.8	111.7	45.9	18.3	41.2	154.2	49.3	15.7	32.2	118.0
52.5°	3.5	15.3	98.7	38.1	14.7	33.5	139.4	40.8	11.7	25.5	106.2
53°	3.1	11.8	86.2	32.4	11.0	26.9	124.7	33.3	7.6	19.7	94.3
53.5°	2.9	8.5	74.5	26.8	7.4	21.3	110.9	26.4	3.7	16.3	82.5
54°	2.7	5.2	63.8	21.1	3.9	17.6	98.8	20.4	3.5	12.9	70.6
54.5°	2.5	2.9	54.1	15.4	3.7	14.0	86.7	16.9	3.4	9.5	58.8
55°	2.4	2.7	45.2	9.8	3.6	10.4	74.7	13.4	3.3	6.1	49.8
55.5°	2.3	2.5	37.4	5.7	3.4	6.8	62.6	9.8	3.2	2.8	41.5
56°	2.2	2.4	32.1	3.1	3.3	3.2	52.7	6.3	3.1	2.7	34.0
56.5°	2.2	2.2	26.9	2.9	3.2	3.0	43.5	2.9	3.0	2.6	27.5
57°	2.1	2.1	21.6	2.8	3.1	2.9	35.4	2.8	2.9	2.5	21.8
57.5°	2.0	2.1	16.4	2.7	3.0	2.8	28.2	2.7	2.8	2.5	17.2
58°	1.9	2.0	11.2	2.6	2.9	2.7	22.0	2.7	2.7	2.4	14.5
58.5°	1.9	1.9	8.6	2.5	2.8	2.6	16.9	2.6	2.6	2.3	11.9
59°	1.8	1.9	6.6	2.4	2.7	2.6	14.2	2.5	2.5	2.2	9.2
59.5°	1.8	1.8	5.1	2.3	2.6	2.5	11.6	2.4	2.4	2.2	6.6
60°	1.7	1.8	3.9	2.3	2.5	2.4	9.1	2.3	2.3	2.1	4.0
60.5°	1.6	1.7	3.3	2.2	2.4	2.3	6.5	2.3	2.3	2.0	3.0
61°	1.6	1.7	2.8	2.1	2.4	2.2	3.9	2.2	2.2	2.0	2.2
61.5°	1.5	1.6	2.3	2.1	2.3	2.2	2.9	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: P775865

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-2700K

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: P775865
CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-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: P775865

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	919.0	919.0	919.0	919.0	919.0	919.0
0.5°	918.2	917.6	917.8	918.0	918.5	918.9
1°	917.1	916.3	916.1	916.6	917.4	918.0
1.5°	915.5	914.3	914.2	914.7	915.8	916.6
2°	913.6	912.1	911.7	912.4	913.7	915.0
2.5°	911.4	909.4	909.0	909.8	911.4	913.1
3°	908.7	906.5	906.2	906.9	908.8	910.7
3.5°	905.8	903.6	902.8	903.8	905.7	908.1
4°	902.9	900.7	899.9	900.1	902.4	904.9
4.5°	900.1	897.8	896.6	896.4	898.8	902.1
5°	897.1	894.5	893.1	892.7	895.3	899.0
5.5°	893.8	891.0	889.4	888.7	891.5	895.9
6°	890.3	887.7	885.7	884.6	887.5	892.6
6.5°	886.8	883.8	881.9	880.6	883.7	889.8
7°	883.2	879.9	877.5	876.4	880.1	886.7
7.5°	879.1	875.3	873.0	872.0	876.1	883.0
8°	874.7	870.7	868.3	867.8	872.0	879.3
8.5°	869.9	865.7	863.1	863.0	867.7	875.4
9°	865.0	860.5	857.9	858.4	863.2	870.8
9.5°	859.8	855.3	852.3	853.7	858.5	866.1
10°	854.5	849.8	846.9	848.8	853.5	861.2
10.5°	849.2	844.2	841.0	843.8	848.3	856.1
11°	843.6	838.7	835.1	838.6	843.0	851.0
11.5°	838.0	833.3	829.2	833.2	837.7	846.1
12°	832.5	827.7	823.7	827.6	832.2	841.0
12.5°	827.2	821.7	817.9	821.9	826.9	835.8
13°	821.8	815.7	812.3	816.1	821.5	830.4
13.5°	815.9	809.6	805.9	810.1	816.2	824.5
14°	810.3	803.4	799.5	803.8	810.7	818.6
14.5°	804.2	797.2	793.1	797.6	804.9	812.5
15°	798.2	791.0	787.0	791.5	798.7	806.5
15.5°	792.0	784.6	780.5	785.3	792.4	800.1
16°	786.0	778.0	774.1	779.0	786.1	793.7
16.5°	779.8	771.6	767.5	772.5	779.7	787.0
17°	773.5	764.8	761.0	766.2	773.1	780.1
17.5°	767.0	757.8	754.3	759.4	766.4	773.1
18°	760.5	750.6	747.3	752.6	759.4	765.8
18.5°	753.5	743.6	740.4	745.7	752.2	758.3
19°	746.5	736.2	733.1	738.3	744.9	750.8
19.5°	739.5	728.7	725.8	731.1	737.3	743.2
20°	732.5	721.1	718.2	723.6	729.3	735.4
20.5°	725.4	713.1	710.8	715.9	721.4	727.5
21°	717.8	704.9	703.1	708.0	713.3	719.1

TEST NUMBER: P775865

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	693.4	679.2	678.7	683.7	688.1	693.2
23°	685.1	670.3	670.3	675.0	679.3	683.9
23.5°	676.2	662.3	661.3	666.6	670.5	674.9
24°	667.3	654.2	652.4	657.4	661.5	666.1
24.5°	658.0	646.1	644.1	648.4	652.0	657.7
25°	649.3	638.0	635.9	639.0	642.3	649.4
25.5°	640.8	629.8	628.3	629.9	633.3	640.5
26°	632.9	621.3	620.2	620.0	624.4	631.3
26.5°	625.2	612.4	612.2	610.1	616.1	621.9
27°	617.5	603.0	604.1	600.0	607.5	611.9
27.5°	609.3	593.2	595.6	589.6	598.6	601.8
28°	601.0	583.0	587.0	579.0	589.6	591.1
28.5°	592.2	572.8	577.9	568.6	580.3	580.5
29°	583.2	562.4	568.5	557.9	570.6	569.3
29.5°	573.7	551.4	558.9	547.4	560.5	558.1
30°	564.2	540.5	548.8	536.8	550.2	546.5
30.5°	554.2	529.1	538.5	526.8	539.7	534.7
31°	544.3	517.3	527.8	516.7	528.9	521.9
31.5°	533.7	505.4	517.0	507.0	517.8	510.4
32°	523.5	493.5	506.1	497.2	506.6	497.7
32.5°	512.7	480.9	495.2	488.1	495.3	485.3
33°	501.8	468.4	483.7	479.0	484.0	472.0
33.5°	490.9	455.5	471.8	470.3	472.6	459.6
34°	479.8	442.3	460.1	461.6	461.2	446.0
34.5°	468.1	429.1	447.5	452.5	449.2	432.8
35°	456.7	415.9	435.1	443.3	437.4	419.0
35.5°	445.1	403.5	422.5	434.1	425.6	406.5
36°	433.4	391.5	410.0	424.4	413.5	393.7
36.5°	421.2	379.2	397.3	414.8	401.6	381.4
37°	409.2	363.6	385.2	405.5	389.5	365.4
37.5°	397.3	345.3	373.2	396.1	377.5	347.5
38°	385.6	326.9	362.7	386.7	365.6	329.5
38.5°	374.6	308.7	346.4	377.2	352.8	311.7
39°	364.4	290.4	330.0	368.3	340.0	293.8
39.5°	353.3	272.1	313.5	358.0	327.0	275.9
40°	339.2	253.8	297.2	349.8	314.2	257.4
40.5°	322.9	235.7	280.9	341.5	301.3	239.0
41°	306.5	218.3	264.5	333.2	286.0	222.0
41.5°	290.2	201.5	247.7	324.8	270.8	205.1
42°	274.4	186.1	230.8	316.4	255.8	189.6
42.5°	258.4	171.4	214.2	307.9	240.1	174.5
43°	242.2	156.6	198.4	299.6	224.4	159.9
43.5°	225.6	141.9	183.4	291.1	209.0	144.8



TEST NUMBER: P775865

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	180.1	102.0	141.8	267.0	166.7	104.3
45.5°	166.1	90.2	128.3	257.5	153.5	92.0
46°	152.2	78.8	115.8	247.1	140.4	80.7
46.5°	138.6	67.9	103.5	233.9	127.0	69.5
47°	125.5	57.6	92.0	221.3	114.8	59.2
47.5°	112.7	48.5	80.5	209.2	102.6	49.6
48°	101.6	40.5	69.8	196.6	91.2	41.5
48.5°	90.5	33.8	59.8	183.1	79.9	34.5
49°	79.5	29.1	50.6	167.5	69.7	29.8
49.5°	68.4	24.5	42.3	152.0	59.4	25.3
50°	57.3	20.0	35.0	137.8	50.2	20.7
50.5°	48.2	15.5	30.4	124.1	41.7	16.2
51°	40.0	11.9	25.9	111.5	34.6	12.6
51.5°	33.0	8.4	21.3	99.3	30.1	9.1
52°	27.2	5.1	16.8	87.8	25.6	5.7
52.5°	22.3	3.0	12.2	77.0	21.1	3.5
53°	18.2	2.8	8.7	66.9	16.6	3.1
53.5°	15.1	2.7	5.4	57.3	12.2	2.9
54°	12.0	2.5	3.0	48.9	8.7	2.7
54.5°	8.8	2.4	2.8	41.1	5.5	2.5
55°	5.7	2.3	2.5	34.1	3.1	2.4
55.5°	2.6	2.2	2.3	29.0	2.8	2.3
56°	2.1	2.1	2.1	23.9	2.5	2.2
56.5°	2.1	2.1	2.0	18.8	2.2	2.2
57°	2.0	2.0	1.9	13.7	2.0	2.1
57.5°	1.9	1.9	1.9	10.4	1.9	2.0
58°	1.9	1.9	1.8	7.9	1.8	1.9
58.5°	1.8	1.8	1.8	5.8	1.8	1.9
59°	1.8	1.7	1.7	4.3	1.7	1.8
59.5°	1.7	1.7	1.7	3.8	1.7	1.8
60°	1.7	1.6	1.6	3.2	1.6	1.7
60.5°	1.6	1.6	1.6	2.6	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: P775865

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-2700K

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: P775865
CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-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°	710.8	719.0	731.2	739.6	752.0	755.3	761.2	754.0	747.0	738.0	725.2
22°	702.2	711.0	723.4	731.8	745.1	748.4	753.8	747.0	740.1	730.7	717.3



44°	130.5	184.6	313.6	249.1	188.6	250.5	349.7	260.5	177.7	223.3	314.7
44.5°	116.9	170.0	304.8	233.5	173.6	234.1	340.5	245.0	162.6	207.8	306.1



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°	710.0	696.7	694.9	700.2	705.1	710.8
22°	701.7	687.9	686.7	692.0	696.7	702.2



44°	209.6	128.1	169.5	282.7	194.0	130.5
44.5°	194.6	114.5	155.5	274.3	180.1	116.9

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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)