

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: P775766

Luminaire Tested: HCDJBS510CSD-HCD6TRC-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775766
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-HCD6TRC-1000lm-3000K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

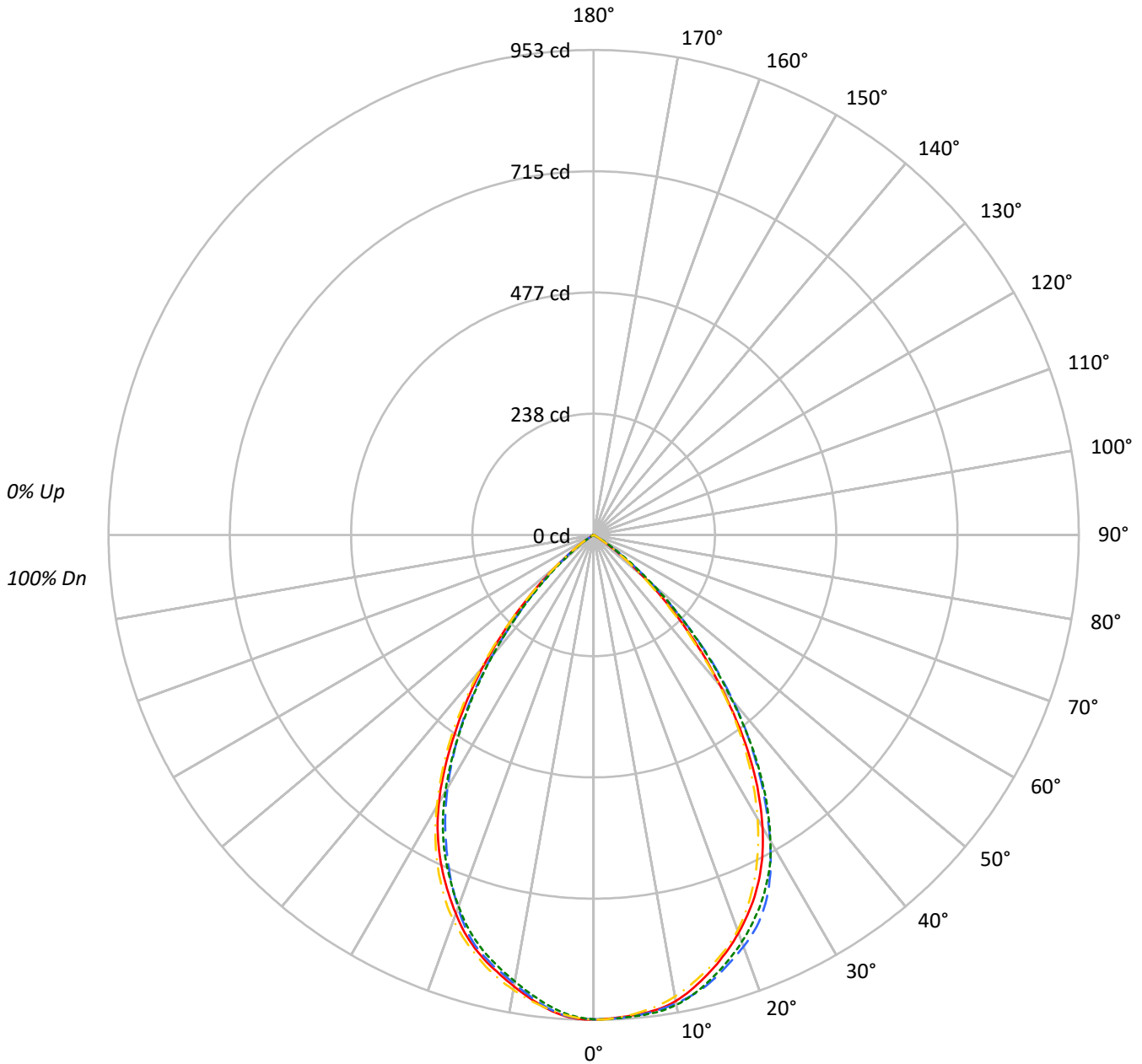
Lumens per Lamp: N/A
Luminaire Lumens: 1203.2 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P775766
CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	52189	52189	52189	52189
5°	52085	52240	51689	51299
10°	51769	52198	50155	49609
15°	50364	51135	48576	47889
20°	48561	49658	46204	45300
25°	46055	47579	42982	41839
30°	41981	43969	38512	36879
35°	35864	38106	31775	29781
40°	27723	30199	24152	22099
45°	19157	21684	16009	14102
50°	10848	12980	8315	6883
55°	4081	5457	3307	2600
60°	296	943	132	153
65°	39	52	39	26
70°	16	16	16	16
75°	0	21	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 22429 cd/sqm



TEST NUMBER: P775766

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	7.4
10°-20°	245.3	20.4
20°-30°	337.1	28.0
30°-40°	313.4	26.0
40°-50°	177.0	14.7
50°-60°	40.8	3.4
60°-70°	0.5	0.0
70°-80°	0.0	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°	671.5	55.8
0°-40°	984.9	81.9
0°-60°	1202.7	100.0
0°-90°	1203.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	952	952	952	952	952	
5°	946	949	939	932	946	90
15°	887	901	856	844	887	250
25°	761	787	711	692	761	348
35°	536	569	475	445	536	331
45°	247	280	206	182	247	191
55°	43	57	35	27	43	44
65°	0	0	0	0	0	0
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°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
0.5°	952.3	951.8	951.8	952.2	951.7	952.2	952.6	952.9	952.5	951.8	951.4
1°	951.9	951.8	951.8	952.2	951.8	952.3	952.5	952.6	952.4	951.8	951.2
1.5°	951.3	951.3	951.6	952.2	951.6	952.3	952.0	952.2	951.9	951.3	950.6
2°	950.8	951.0	951.4	952.2	951.5	952.2	951.4	951.4	951.3	950.8	949.8
2.5°	950.2	950.7	951.2	951.9	951.3	951.7	950.6	950.4	950.2	949.8	948.8
3°	949.4	950.2	950.7	951.5	951.0	951.2	949.6	949.1	948.7	948.6	947.4
3.5°	948.7	949.7	950.2	951.2	950.7	950.6	948.5	947.4	946.7	946.7	945.6
4°	948.1	949.2	949.7	950.7	950.2	950.0	947.2	945.5	944.7	944.5	943.5
4.5°	947.2	948.5	949.1	950.2	949.8	949.4	945.7	943.4	942.1	941.9	940.7
5°	946.5	947.9	948.4	949.5	949.3	948.7	944.3	941.0	939.3	939.1	937.6
5.5°	945.9	947.0	947.5	948.8	948.8	948.0	942.5	938.4	936.1	935.7	934.3
6°	944.9	946.1	946.5	948.1	948.4	947.1	940.8	935.7	932.9	932.3	930.5
6.5°	944.0	945.0	945.5	947.1	947.5	946.4	939.0	932.7	929.3	928.5	926.7
7°	942.7	943.9	944.3	946.2	946.8	945.4	937.1	929.8	925.6	924.7	922.5
7.5°	941.3	942.4	943.1	945.1	946.0	944.5	934.9	926.7	921.7	920.6	918.2
8°	939.8	940.8	941.6	944.0	944.9	943.4	932.4	923.2	917.7	916.4	913.8
8.5°	937.9	939.0	940.1	942.4	943.5	941.8	929.9	919.9	913.6	912.0	909.4
9°	935.6	936.9	938.5	941.1	941.7	940.2	927.1	916.4	909.6	907.9	904.9
9.5°	932.9	934.5	936.7	939.4	939.8	938.2	924.0	913.0	905.3	903.6	900.5
10°	930.0	932.0	934.8	937.5	937.7	935.7	920.6	909.4	901.0	899.2	896.1
10.5°	926.7	929.2	932.8	935.4	935.1	932.9	917.2	905.5	896.6	894.8	891.5
11°	922.9	926.0	930.5	933.2	932.1	929.8	913.7	901.6	892.2	890.3	887.0
11.5°	919.3	922.5	928.3	930.8	929.0	926.2	909.7	897.9	887.9	885.8	882.6
12°	915.1	919.1	925.5	928.3	925.4	922.3	905.7	894.0	883.6	881.2	878.4
12.5°	910.8	915.3	922.8	925.4	921.8	918.1	901.4	889.8	879.1	876.3	874.1
13°	906.3	911.4	919.7	922.5	917.9	914.0	897.5	885.5	874.8	871.5	870.0
13.5°	901.9	907.2	916.6	919.6	913.9	909.6	893.0	881.1	870.2	866.3	865.5
14°	897.0	903.0	913.1	916.4	909.7	904.9	888.9	876.5	865.6	861.0	861.0
14.5°	892.4	899.0	909.4	913.0	905.3	900.1	884.4	871.5	860.9	855.4	856.2
15°	887.4	894.5	905.3	909.7	901.0	895.2	880.0	866.5	855.9	849.9	851.3
15.5°	882.5	890.0	901.2	905.8	896.5	890.4	875.3	861.4	850.9	843.9	846.1
16°	877.5	885.5	896.9	901.9	891.8	885.6	870.9	855.7	845.6	837.9	840.6
16.5°	872.4	880.9	892.4	897.7	887.2	880.7	866.0	850.0	839.8	831.9	834.3
17°	867.0	876.2	888.0	893.6	882.3	875.7	861.1	844.3	833.8	825.4	827.8
17.5°	861.9	871.5	883.5	889.2	877.3	870.7	856.2	838.2	827.5	818.4	820.8
18°	856.3	866.8	879.0	884.9	872.2	865.5	850.8	832.2	821.2	811.9	813.2
18.5°	850.7	862.1	874.6	880.4	867.2	860.4	845.5	825.7	814.1	804.8	805.1
19°	844.6	857.2	870.1	875.8	861.9	855.3	839.6	819.3	807.1	797.8	796.9
19.5°	838.5	852.1	865.5	871.0	856.7	849.7	833.3	812.8	799.6	790.2	788.4
20°	832.4	846.9	860.7	865.8	851.2	844.2	826.9	805.9	792.0	783.0	779.6
20.5°	826.0	841.4	856.0	860.6	845.3	838.1	820.0	798.6	784.2	775.3	770.4
21°	819.6	835.7	851.0	855.2	839.4	831.9	813.0	791.6	776.5	767.5	761.2



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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°	799.1	816.9	834.5	837.2	821.1	811.9	789.9	769.2	752.5	743.8	733.6
23°	792.2	809.9	828.2	830.4	814.3	804.5	781.8	761.3	744.5	735.8	723.8
23.5°	784.7	802.8	821.8	823.5	807.8	797.3	773.2	753.6	736.5	726.9	713.8
24°	777.2	795.3	814.4	816.1	801.0	789.5	764.6	745.8	728.0	718.1	703.8
24.5°	769.3	787.8	806.8	808.1	793.8	781.7	756.0	738.1	719.3	709.1	693.7
25°	761.4	779.8	798.7	800.1	786.6	773.7	747.4	729.6	710.6	699.8	683.7
25.5°	753.2	771.2	790.1	791.7	779.0	765.2	738.8	720.9	701.5	690.4	673.4
26°	744.4	762.6	780.9	782.8	770.6	756.8	728.4	711.8	692.3	681.1	663.2
26.5°	735.5	753.8	771.6	773.6	762.3	748.3	718.5	702.4	682.9	671.2	653.0
27°	726.3	744.4	761.5	764.0	753.9	739.9	708.8	693.0	673.1	661.3	642.6
27.5°	716.7	734.3	751.2	754.2	745.5	731.0	698.3	683.1	663.3	651.0	631.7
28°	706.4	724.1	740.0	743.8	737.0	721.0	688.0	672.8	653.3	640.2	620.8
28.5°	696.4	713.4	728.9	733.2	727.0	711.5	677.2	662.1	642.6	628.8	609.2
29°	685.6	702.2	717.0	721.9	716.6	700.9	666.4	651.3	631.6	617.4	598.0
29.5°	674.5	691.4	705.3	710.6	705.7	690.6	655.1	640.0	620.0	605.8	586.0
30°	663.2	679.4	692.9	699.0	694.6	679.8	643.9	628.5	608.4	593.8	573.9
30.5°	651.8	667.9	680.8	687.4	683.1	668.9	632.3	616.6	596.2	581.6	561.8
31°	639.9	656.0	668.0	674.9	671.6	657.3	620.5	604.3	583.7	569.1	549.8
31.5°	627.4	643.7	655.3	662.6	659.6	646.0	608.5	592.1	571.0	556.5	537.6
32°	615.4	631.1	642.3	649.7	647.3	634.1	596.7	579.6	557.7	543.7	525.4
32.5°	602.9	618.4	629.5	636.8	635.0	622.4	584.3	566.8	544.2	530.2	513.0
33°	590.3	605.7	616.0	623.7	622.3	609.6	572.1	553.7	530.6	516.6	500.7
33.5°	577.0	592.7	603.4	610.8	609.6	597.2	559.6	540.5	516.9	503.2	488.5
34°	564.0	579.2	590.0	597.4	596.2	584.3	547.3	527.1	502.9	489.2	475.9
34.5°	550.1	565.9	577.0	584.3	582.9	571.3	534.5	513.8	488.6	475.6	463.1
35°	535.9	551.8	563.7	571.0	569.4	557.6	522.0	500.1	474.8	461.8	449.9
35.5°	521.7	537.9	550.5	557.7	555.7	544.2	509.2	486.5	461.0	447.8	436.7
36°	507.5	523.9	537.4	544.4	541.9	530.2	495.9	472.8	447.4	434.3	423.2
36.5°	492.7	509.6	523.7	530.9	527.3	516.2	482.1	459.1	433.8	420.4	409.5
37°	477.8	495.7	510.6	517.3	512.7	502.3	468.6	445.5	420.2	406.7	395.3
37.5°	462.4	481.0	497.4	503.4	497.9	487.9	454.5	431.8	406.7	393.0	381.4
38°	447.2	466.5	483.6	489.5	483.0	473.1	440.5	417.8	393.3	378.9	367.2
38.5°	431.9	451.9	469.6	475.1	467.7	458.3	426.2	404.0	379.9	365.3	353.3
39°	416.5	437.3	455.5	461.2	452.6	443.5	411.5	390.2	365.8	351.4	339.1
39.5°	402.0	422.7	441.5	446.8	437.2	428.3	397.1	376.3	351.7	337.6	324.5
40°	387.4	407.5	427.0	432.7	422.0	412.9	382.5	362.2	337.5	323.5	310.6
40.5°	373.1	392.6	412.7	418.1	407.3	397.9	367.7	348.3	323.3	309.8	296.2
41°	358.9	377.8	398.1	403.5	392.4	382.8	352.5	334.4	309.3	296.2	282.2
41.5°	344.7	361.3	383.7	388.7	378.0	367.8	337.4	320.4	295.3	282.6	268.2
42°	330.7	348.0	369.6	374.1	363.5	353.1	322.4	306.4	282.2	269.3	254.6
42.5°	316.5	334.7	355.2	359.5	349.8	338.4	307.9	292.6	269.6	256.1	241.9
43°	302.3	321.5	340.7	345.1	335.9	324.2	293.1	277.9	256.8	243.1	229.0
43.5°	288.2	308.2	326.2	336.1	321.6	309.9	278.6	264.0	244.4	230.4	216.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	247.1	267.1	283.0	289.3	279.7	267.5	237.9	223.4	206.5	194.2	181.8
45.5°	233.9	253.4	268.5	273.8	265.6	253.8	224.7	209.9	194.4	182.1	171.1
46°	221.3	239.9	254.0	260.0	252.1	240.2	211.5	197.0	182.3	170.8	160.4
46.5°	208.5	226.6	240.0	246.4	239.4	227.0	199.0	184.5	170.5	159.9	150.3
47°	195.7	213.9	226.2	232.8	226.1	214.2	186.3	171.9	158.8	149.1	140.4
47.5°	183.1	200.9	212.8	219.3	213.4	201.9	174.3	160.4	148.2	138.7	131.3
48°	171.4	188.2	199.6	206.0	201.0	189.8	162.6	148.4	137.1	128.7	122.1
48.5°	159.6	175.7	186.5	193.0	188.5	178.0	151.4	137.5	126.4	119.2	113.6
49°	148.5	163.8	174.1	180.5	176.0	166.7	140.4	126.8	115.9	110.1	105.2
49.5°	137.5	151.9	161.7	167.8	163.7	155.7	130.3	117.0	106.2	101.5	98.0
50°	127.2	140.2	150.2	156.0	152.2	144.9	120.1	107.4	97.5	93.8	90.8
50.5°	116.7	128.8	138.8	144.2	140.7	134.2	110.8	99.4	88.9	86.2	83.5
51°	107.1	117.8	127.7	132.9	129.9	124.1	101.9	91.6	80.3	78.6	76.3
51.5°	97.6	107.1	117.1	121.9	119.2	114.2	94.0	83.6	71.8	70.9	69.0
52°	88.3	97.2	106.9	111.3	109.0	104.7	86.2	75.6	64.8	64.1	62.6
52.5°	79.3	87.8	97.1	101.6	100.0	96.1	78.3	67.7	58.6	57.9	56.6
53°	71.1	79.0	87.8	91.9	91.2	87.4	70.4	61.1	53.1	52.1	50.7
53.5°	63.1	70.5	78.6	82.5	82.2	78.8	63.7	55.3	48.2	46.7	45.2
54°	55.5	62.9	70.3	73.8	73.3	70.1	57.2	49.7	43.3	41.4	39.7
54.5°	48.8	55.4	62.2	65.8	64.4	62.8	51.2	44.5	38.9	36.8	34.7
55°	42.7	48.7	54.8	58.3	57.1	55.8	45.3	39.6	34.6	32.2	29.8
55.5°	37.0	42.5	47.9	51.1	50.1	49.1	39.8	34.9	30.4	27.7	25.3
56°	32.4	36.4	41.2	44.4	43.8	43.1	34.7	30.4	26.4	23.6	21.0
56.5°	27.9	31.9	35.1	38.5	37.9	37.4	29.7	26.2	22.6	19.7	17.3
57°	23.3	27.3	30.5	33.8	32.4	32.1	25.1	22.2	18.9	16.2	14.2
57.5°	18.8	22.7	25.9	29.1	27.4	27.1	20.8	18.4	15.6	12.9	11.0
58°	14.2	18.1	21.3	24.5	22.7	22.5	17.2	15.1	12.3	9.5	7.9
58.5°	10.1	13.5	16.7	19.8	18.7	18.5	14.0	11.8	9.0	6.0	4.8
59°	6.2	9.5	12.7	15.2	15.3	15.1	10.8	8.6	5.7	2.7	1.6
59.5°	3.4	5.8	8.6	11.0	11.9	11.8	7.8	5.3	2.5	1.4	1.1
60°	2.7	3.1	5.1	7.0	8.6	8.5	4.6	2.0	1.2	1.0	0.9
60.5°	2.0	2.5	2.7	4.0	5.2	5.2	1.4	1.1	0.9	0.8	0.8
61°	1.3	1.9	2.1	3.2	1.9	1.8	0.9	0.8	0.8	0.7	0.7
61.5°	0.7	1.3	1.6	2.3	1.1	1.0	0.7	0.7	0.7	0.6	0.6
62°	0.6	0.8	1.2	1.6	0.8	0.8	0.6	0.6	0.6	0.6	0.5
62.5°	0.5	0.7	0.8	0.8	0.7	0.7	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4
63.5°	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
64°	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3
64.5°	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
65.5°	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
66°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775766

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
69°	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	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°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
75.5°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	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	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: P775766
CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-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: P775766

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	952.0	952.0	952.0	952.0	952.0	952.0
0.5°	951.4	950.9	951.2	952.0	952.3	952.3
1°	950.8	950.2	950.2	951.4	951.8	951.9
1.5°	950.0	949.1	949.0	950.6	951.0	951.3
2°	948.8	947.6	947.3	949.4	950.2	950.8
2.5°	947.3	945.9	945.5	948.0	949.2	950.2
3°	945.4	943.9	943.4	946.3	948.1	949.4
3.5°	943.3	941.4	941.0	944.4	946.8	948.7
4°	940.7	938.7	938.4	942.5	945.6	948.1
4.5°	937.7	935.6	935.5	940.4	944.3	947.2
5°	934.5	932.2	932.2	938.2	942.8	946.5
5.5°	930.7	928.8	929.0	935.7	941.4	945.9
6°	927.1	925.0	925.5	933.2	939.8	944.9
6.5°	923.0	921.0	921.9	930.5	937.8	944.0
7°	919.1	916.9	918.1	927.7	936.1	942.7
7.5°	914.9	912.9	914.4	924.6	933.9	941.3
8°	910.4	908.5	910.5	921.6	931.8	939.8
8.5°	906.0	904.4	906.5	918.3	929.1	937.9
9°	901.7	900.0	902.3	915.0	926.3	935.6
9.5°	897.3	895.6	898.0	911.4	923.2	932.9
10°	892.8	891.2	894.1	907.9	920.0	930.0
10.5°	888.2	886.8	890.0	904.1	916.5	926.7
11°	883.9	882.4	885.8	900.4	912.7	922.9
11.5°	879.1	877.9	881.4	896.5	908.9	919.3
12°	874.7	873.2	877.0	892.3	904.9	915.1
12.5°	869.9	868.7	872.6	888.0	900.7	910.8
13°	865.1	863.9	868.1	883.6	896.7	906.3
13.5°	859.8	859.1	863.3	879.0	892.4	901.9
14°	854.6	854.0	858.5	874.4	888.1	897.0
14.5°	849.2	849.1	853.5	869.2	883.9	892.4
15°	843.8	843.8	848.3	864.2	879.6	887.4
15.5°	838.0	838.3	843.1	858.8	874.9	882.5
16°	832.1	832.6	837.5	853.7	870.3	877.5
16.5°	825.9	826.7	831.6	848.3	865.5	872.4
17°	819.5	820.3	825.5	842.7	860.6	867.0
17.5°	812.5	813.6	818.9	837.0	855.4	861.9
18°	805.8	806.7	812.2	831.2	849.7	856.3
18.5°	798.3	799.4	805.1	825.2	843.7	850.7
19°	790.7	792.1	797.9	818.9	837.4	844.6
19.5°	783.0	784.3	790.5	812.5	830.9	838.5
20°	775.0	776.5	783.0	805.9	823.9	832.4
20.5°	766.7	768.5	775.1	798.7	816.9	826.0
21°	758.1	760.4	767.2	791.7	809.3	819.6

TEST NUMBER: P775766

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	732.7	735.4	743.0	767.7	784.9	799.1
23°	723.7	727.1	734.9	759.3	776.0	792.2
23.5°	714.1	718.6	726.3	750.7	767.1	784.7
24°	704.6	709.9	717.9	741.6	758.3	777.2
24.5°	694.9	700.7	708.8	732.9	749.1	769.3
25°	685.3	691.7	700.0	723.4	739.6	761.4
25.5°	675.2	682.4	690.5	713.9	729.9	753.2
26°	664.9	672.7	681.3	704.1	720.2	744.4
26.5°	654.4	662.7	671.5	694.4	710.3	735.5
27°	643.6	652.4	661.2	684.1	700.3	726.3
27.5°	632.5	641.7	650.5	673.4	690.2	716.7
28°	621.3	630.7	639.5	662.3	679.3	706.4
28.5°	609.6	619.0	628.2	651.3	668.7	696.4
29°	597.9	607.4	616.5	639.8	657.5	685.6
29.5°	585.8	595.0	604.1	628.6	646.4	674.5
30°	573.5	582.6	591.9	616.5	634.7	663.2
30.5°	561.3	569.5	579.2	604.7	623.2	651.8
31°	548.7	556.6	566.2	592.4	611.4	639.9
31.5°	535.9	543.0	552.3	580.1	599.4	627.4
32°	523.2	529.2	538.7	568.2	587.0	615.4
32.5°	510.4	515.1	525.1	555.4	574.8	602.9
33°	497.0	501.4	511.2	543.0	562.1	590.3
33.5°	484.0	487.4	497.2	529.9	549.8	577.0
34°	470.3	473.5	483.5	517.0	537.2	564.0
34.5°	457.1	458.9	469.4	503.8	524.2	550.1
35°	443.9	445.0	455.6	490.1	510.6	535.9
35.5°	430.3	431.1	442.0	476.7	497.4	521.7
36°	416.8	417.5	428.1	463.1	483.5	507.5
36.5°	402.7	404.3	414.8	449.4	469.6	492.7
37°	388.7	390.5	401.2	435.0	455.1	477.8
37.5°	374.8	377.0	387.5	420.7	440.6	462.4
38°	360.7	362.2	373.7	406.4	426.0	447.2
38.5°	346.7	348.8	359.8	391.6	411.2	431.9
39°	332.4	335.4	345.9	377.5	396.2	416.5
39.5°	318.5	322.1	331.9	361.7	381.2	402.0
40°	304.8	308.8	317.9	347.8	365.3	387.4
40.5°	291.2	295.1	303.9	333.8	350.4	373.1
41°	277.9	281.5	289.9	319.9	335.4	358.9
41.5°	264.5	268.6	276.0	305.9	320.6	344.7
42°	251.1	255.7	262.8	291.7	305.7	330.7
42.5°	238.3	243.1	249.8	277.6	290.9	316.5
43°	225.3	230.4	236.6	263.4	276.9	302.3
43.5°	212.7	218.4	223.8	249.2	262.8	288.2



TEST NUMBER: P775766

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	177.2	181.9	185.8	207.5	222.6	247.1
45.5°	166.3	170.3	173.3	194.6	210.1	233.9
46°	155.4	158.6	161.4	182.0	197.9	221.3
46.5°	145.4	147.8	149.8	169.8	186.2	208.5
47°	135.5	137.0	138.6	158.3	174.6	195.7
47.5°	126.2	126.4	127.7	147.2	162.8	183.1
48°	117.0	116.2	117.2	136.2	151.9	171.4
48.5°	108.2	106.9	107.4	126.1	141.1	159.6
49°	100.0	97.6	98.0	116.3	130.8	148.5
49.5°	92.7	89.2	89.4	107.4	120.6	137.5
50°	85.4	80.7	81.0	98.6	111.1	127.2
50.5°	78.1	73.4	73.4	90.0	101.5	116.7
51°	70.7	66.3	66.4	82.0	92.7	107.1
51.5°	64.2	60.1	60.0	74.9	84.2	97.6
52°	58.0	54.3	54.4	67.9	76.5	88.3
52.5°	52.2	49.1	49.1	61.3	68.9	79.3
53°	46.6	44.0	44.1	54.9	61.9	71.1
53.5°	41.2	39.5	39.5	49.2	55.1	63.1
54°	36.2	35.2	35.0	43.7	49.0	55.5
54.5°	31.6	31.2	31.0	38.5	42.9	48.8
55°	27.1	27.2	27.0	34.0	37.5	42.7
55.5°	22.9	23.2	23.0	29.6	32.9	37.0
56°	18.9	19.2	18.9	25.2	28.4	32.4
56.5°	15.5	15.6	15.3	20.8	23.8	27.9
57°	12.3	11.7	11.4	16.4	19.3	23.3
57.5°	8.9	8.0	7.6	12.6	14.8	18.8
58°	5.6	4.7	4.3	8.4	10.6	14.2
58.5°	2.2	3.8	3.4	5.0	6.8	10.1
59°	1.2	3.0	2.5	2.6	3.9	6.2
59.5°	0.9	2.2	1.6	2.0	3.1	3.4
60°	0.8	1.4	0.7	1.5	2.2	2.7
60.5°	0.7	0.6	0.6	1.1	1.4	2.0
61°	0.6	0.5	0.5	0.6	0.7	1.3
61.5°	0.5	0.5	0.4	0.5	0.6	0.7
62°	0.4	0.4	0.4	0.5	0.5	0.6
62.5°	0.4	0.4	0.3	0.4	0.4	0.5
63°	0.4	0.3	0.3	0.4	0.4	0.5
63.5°	0.3	0.3	0.3	0.3	0.3	0.4
64°	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.2	0.2	0.3	0.3	0.3
65°	0.2	0.2	0.2	0.2	0.2	0.3
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775766

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.1	0.1	0.1	0.1	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.2
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	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	0.0	0.1	0.1	0.1
73.5°	0.1	0.0	0.0	0.0	0.0	0.1
74°	0.1	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	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: P775766

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-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°	812.9	829.6	845.8	849.5	833.4	825.5	805.8	784.2	768.5	759.5	752.0
22°	806.1	823.4	840.3	843.4	827.3	818.8	798.1	777.0	760.4	751.6	742.8



44°	274.0	294.5	311.7	320.4	307.3	295.6	265.0	250.4	231.6	218.3	205.0
44.5°	260.3	280.5	297.2	304.8	293.9	281.7	251.7	236.8	219.4	206.0	193.4



66.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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°	749.6	752.2	759.3	784.0	801.5	812.9
22°	741.1	743.8	751.2	775.7	793.4	806.1



44°	200.3	205.8	210.8	235.0	249.1	274.0
44.5°	188.7	193.9	198.3	220.9	235.7	260.3

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66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.1	0.2	0.2	0.2

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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)