

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: P775765

Luminaire Tested: HCDJBS510CSD-HCD6TRC-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775765
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-2700K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

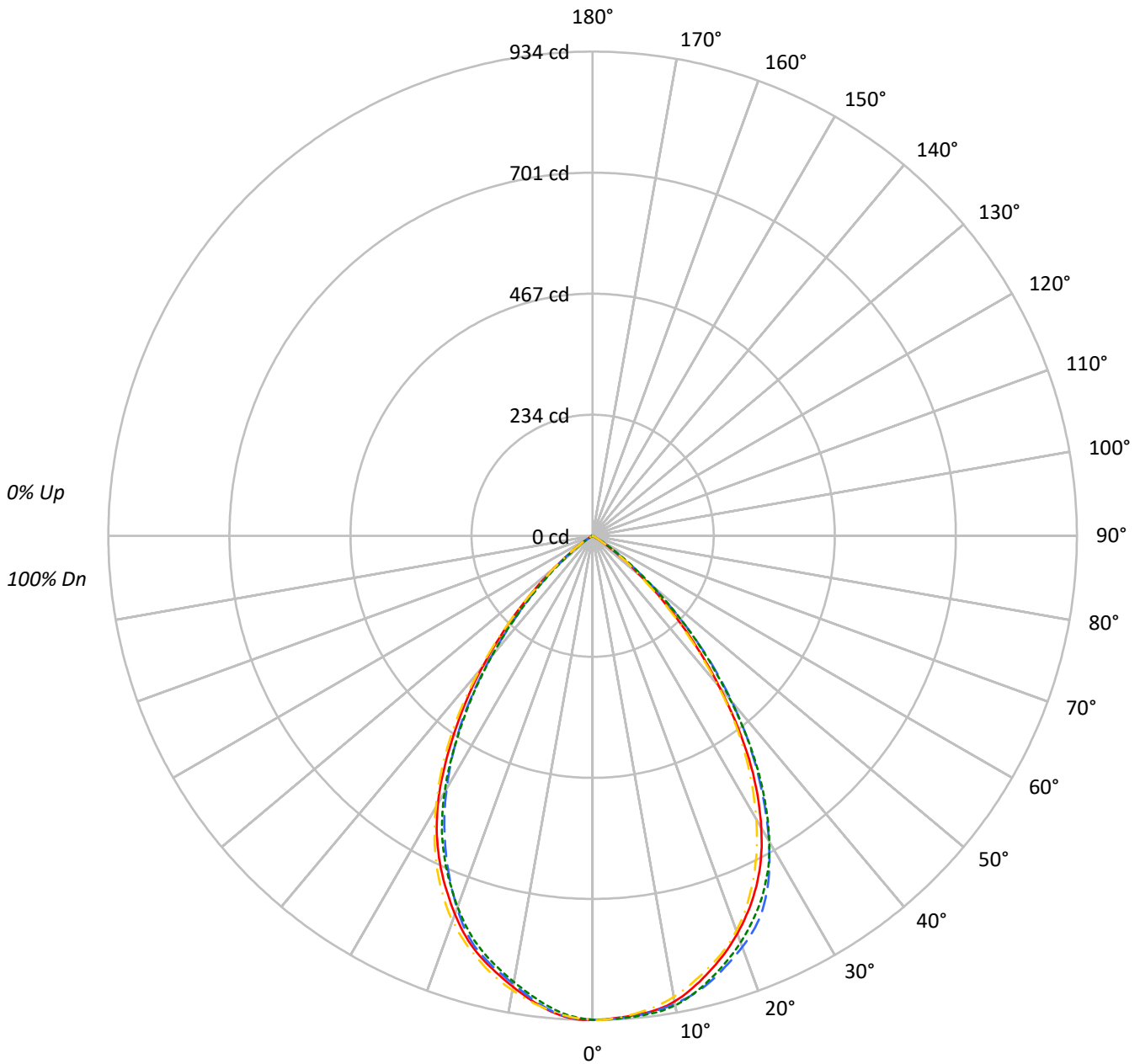
Lumens per Lamp: N/A
Luminaire Lumens: 1180.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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	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°	51186	51186	51186	51186
5°	51078	51233	50688	50308
10°	50767	51190	49186	48652
15°	49393	50148	47634	46964
20°	47622	48695	45311	44425
25°	45166	46660	42154	41035
30°	41171	43121	37772	36164
35°	35175	37370	31159	29205
40°	27187	29620	23687	21669
45°	18793	21266	15699	13831
50°	10635	12733	8153	6755
55°	3995	5352	3240	2542
60°	285	921	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: 21995 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	7.4
10°-20°	240.6	20.4
20°-30°	330.6	28.0
30°-40°	307.3	26.0
40°-50°	173.5	14.7
50°-60°	40.0	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°	658.5	55.8
0°-40°	965.9	81.9
0°-60°	1179.4	100.0
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	934	934	934	934	934	
5°	928	931	921	914	928	88
15°	870	884	839	828	870	245
25°	747	771	697	678	747	341
35°	526	558	466	436	526	324
45°	242	274	202	178	242	187
55°	42	56	34	27	42	43
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°	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7
0.5°	934.0	933.5	933.5	933.9	933.4	933.9	934.3	934.5	934.2	933.5	933.1
1°	933.6	933.5	933.5	933.9	933.5	934.0	934.2	934.3	934.1	933.5	932.9
1.5°	933.0	933.0	933.3	933.9	933.3	934.0	933.7	933.9	933.6	933.0	932.3
2°	932.5	932.7	933.1	933.9	933.2	933.9	933.1	933.1	933.0	932.5	931.5
2.5°	931.9	932.4	932.9	933.6	933.0	933.4	932.3	932.1	931.9	931.5	930.5
3°	931.1	931.9	932.4	933.2	932.7	932.9	931.3	930.8	930.4	930.3	929.1
3.5°	930.4	931.4	931.9	932.9	932.4	932.3	930.2	929.1	928.4	928.4	927.3
4°	929.8	930.9	931.4	932.4	931.9	931.7	928.9	927.2	926.4	926.2	925.2
4.5°	928.9	930.2	930.8	931.9	931.5	931.1	927.4	925.1	923.9	923.7	922.5
5°	928.2	929.5	930.1	931.2	931.0	930.4	926.0	922.8	921.1	920.9	919.5
5.5°	927.6	928.7	929.2	930.5	930.5	929.7	924.3	920.2	918.0	917.6	916.2
6°	926.6	927.8	928.2	929.8	930.1	928.8	922.6	917.6	914.9	914.3	912.5
6.5°	925.7	926.7	927.2	928.8	929.2	928.1	920.8	914.7	911.3	910.5	908.8
7°	924.5	925.6	926.0	927.9	928.5	927.1	919.0	911.8	907.7	906.8	904.7
7.5°	923.1	924.2	924.8	926.8	927.7	926.2	916.8	908.8	903.9	902.8	900.5
8°	921.6	922.6	923.4	925.7	926.6	925.1	914.4	905.4	900.0	898.7	896.1
8.5°	919.8	920.8	921.9	924.2	925.2	923.6	911.9	902.1	895.9	894.4	891.8
9°	917.5	918.8	920.3	922.9	923.5	922.0	909.2	898.7	892.0	890.4	887.4
9.5°	914.9	916.4	918.6	921.2	921.6	920.0	906.1	895.4	887.8	886.2	883.1
10°	912.0	914.0	916.7	919.4	919.6	917.6	902.8	891.8	883.6	881.8	878.8
10.5°	908.8	911.2	914.8	917.3	917.0	914.9	899.5	888.0	879.3	877.5	874.3
11°	905.1	908.1	912.5	915.1	914.1	911.8	896.0	884.2	875.0	873.1	869.9
11.5°	901.5	904.7	910.3	912.8	911.0	908.3	892.1	880.6	870.8	868.7	865.6
12°	897.4	901.3	907.6	910.3	907.5	904.5	888.2	876.7	866.6	864.2	861.5
12.5°	893.2	897.6	905.0	907.5	904.0	900.4	884.0	872.6	862.2	859.4	857.3
13°	888.8	893.8	901.9	904.7	900.2	896.3	880.2	868.4	857.9	854.7	853.2
13.5°	884.5	889.7	898.9	901.8	896.2	892.0	875.8	864.1	853.4	849.6	848.8
14°	879.7	885.6	895.5	898.7	892.1	887.4	871.8	859.6	848.9	844.4	844.4
14.5°	875.2	881.6	891.8	895.4	887.8	882.7	867.3	854.7	844.3	838.8	839.6
15°	870.3	877.2	887.8	892.1	883.6	877.9	863.0	849.8	839.3	833.4	834.8
15.5°	865.5	872.8	883.8	888.3	879.2	873.2	858.4	844.8	834.4	827.6	829.7
16°	860.6	868.4	879.6	884.5	874.6	868.5	854.1	839.1	829.2	821.7	824.3
16.5°	855.6	863.9	875.2	880.4	870.1	863.7	849.3	833.5	823.6	815.8	818.2
17°	850.3	859.3	870.9	876.4	865.3	858.8	844.5	828.0	817.7	809.4	811.8
17.5°	845.3	854.7	866.5	872.0	860.4	853.9	839.6	822.0	811.5	802.6	804.9
18°	839.7	850.1	862.1	867.8	855.4	848.8	834.3	816.1	805.3	796.2	797.5
18.5°	834.2	845.5	857.7	863.4	850.5	843.8	829.1	809.7	798.4	789.3	789.6
19°	828.3	840.6	853.3	858.9	845.3	838.7	823.4	803.5	791.5	782.4	781.5
19.5°	822.3	835.6	848.8	854.2	840.1	833.3	817.2	797.1	784.2	775.0	773.2
20°	816.3	830.5	844.1	849.1	834.7	827.9	810.9	790.3	776.7	767.9	764.6
20.5°	810.0	825.1	839.4	844.0	828.9	821.9	804.2	783.2	769.1	760.4	755.6
21°	803.8	819.5	834.5	838.6	823.2	815.8	797.3	776.3	761.5	752.7	746.5



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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°	783.7	801.1	818.4	821.0	805.2	796.2	774.7	754.4	737.9	729.4	719.4
23°	776.9	794.3	812.2	814.3	798.6	789.0	766.7	746.6	730.1	721.6	709.8
23.5°	769.6	787.3	805.9	807.6	792.2	781.9	758.3	739.0	722.3	712.9	700.0
24°	762.2	780.0	798.7	800.3	785.5	774.3	749.8	731.4	713.9	704.2	690.2
24.5°	754.5	772.6	791.2	792.5	778.5	766.6	741.4	723.8	705.4	695.4	680.3
25°	746.7	764.8	783.3	784.7	771.4	758.8	732.9	715.5	696.9	686.3	670.5
25.5°	738.6	756.4	774.9	776.4	764.0	750.4	724.5	707.0	688.0	677.1	660.4
26°	730.0	747.8	765.9	767.7	755.8	742.1	714.3	698.1	679.0	668.0	650.4
26.5°	721.3	739.2	756.7	758.7	747.5	733.8	704.6	688.9	669.8	658.2	640.4
27°	712.3	730.0	746.8	749.2	739.3	725.6	695.1	679.7	660.1	648.5	630.2
27.5°	702.9	720.1	736.7	739.6	731.1	716.9	684.8	670.0	650.5	638.4	619.5
28°	692.8	710.1	725.7	729.4	722.8	707.1	674.8	659.8	640.7	627.8	608.8
28.5°	683.0	699.6	714.8	719.0	713.0	697.8	664.2	649.3	630.2	616.7	597.5
29°	672.4	688.7	703.2	708.0	702.8	687.4	653.5	638.7	619.4	605.5	586.5
29.5°	661.4	678.1	691.7	696.9	692.1	677.3	642.4	627.6	608.0	594.1	574.6
30°	650.4	666.3	679.6	685.5	681.2	666.7	631.5	616.4	596.7	582.4	562.8
30.5°	639.2	655.0	667.7	674.2	670.0	655.9	620.1	604.7	584.7	570.3	550.9
31°	627.5	643.3	655.1	661.8	658.6	644.6	608.5	592.7	572.4	558.1	539.2
31.5°	615.3	631.3	642.6	649.8	646.8	633.5	596.8	580.7	559.9	545.7	527.2
32°	603.5	618.9	629.9	637.1	634.8	621.9	585.2	568.4	546.9	533.2	515.3
32.5°	591.3	606.5	617.3	624.5	622.7	610.4	573.0	555.8	533.7	520.0	503.1
33°	578.9	594.0	604.1	611.7	610.3	597.9	561.0	543.0	520.4	506.7	491.1
33.5°	565.8	581.3	591.8	599.0	597.9	585.7	548.8	530.1	506.9	493.5	479.0
34°	553.1	568.0	578.7	585.9	584.7	573.0	536.7	516.9	493.2	479.7	466.7
34.5°	539.5	554.9	565.8	573.0	571.6	560.2	524.2	503.9	479.1	466.4	454.1
35°	525.6	541.1	552.8	559.9	558.4	546.8	511.9	490.5	465.6	452.9	441.2
35.5°	511.6	527.5	539.9	546.9	545.0	533.7	499.4	477.1	452.1	439.2	428.3
36°	497.7	513.8	527.0	533.9	531.4	520.0	486.3	463.6	438.8	425.9	415.1
36.5°	483.1	499.8	513.6	520.7	517.1	506.3	472.8	450.2	425.4	412.3	401.6
37°	468.5	486.1	500.8	507.3	502.8	492.6	459.5	436.9	412.1	398.9	387.6
37.5°	453.5	471.7	487.8	493.7	488.3	478.4	445.7	423.5	398.9	385.4	374.0
38°	438.6	457.5	474.2	480.0	473.6	463.9	432.0	409.8	385.7	371.6	360.1
38.5°	423.6	443.2	460.5	465.9	458.7	449.4	418.0	396.2	372.5	358.2	346.5
39°	408.5	428.9	446.7	452.3	443.9	434.9	403.6	382.6	358.7	344.6	332.6
39.5°	394.2	414.6	433.0	438.2	428.8	420.1	389.4	369.0	344.9	331.1	318.3
40°	379.9	399.7	418.8	424.4	413.9	405.0	375.1	355.2	331.0	317.3	304.6
40.5°	365.9	385.0	404.8	410.1	399.5	390.2	360.6	341.6	317.1	303.8	290.5
41°	352.0	370.5	390.4	395.7	384.8	375.4	345.7	328.0	303.3	290.5	276.7
41.5°	338.1	354.3	376.3	381.2	370.7	360.7	330.9	314.3	289.6	277.1	263.0
42°	324.3	341.3	362.5	366.9	356.5	346.3	316.2	300.4	276.7	264.1	249.7
42.5°	310.4	328.3	348.3	352.6	343.1	331.9	301.9	286.9	264.4	251.2	237.3
43°	296.4	315.3	334.1	338.5	329.4	318.0	287.4	272.5	251.9	238.4	224.6
43.5°	282.6	302.2	319.9	329.6	315.4	303.9	273.2	258.9	239.7	226.0	212.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	242.4	261.9	277.5	283.7	274.3	262.3	233.3	219.0	202.5	190.4	178.3
45.5°	229.4	248.5	263.3	268.5	260.5	248.9	220.3	205.8	190.6	178.6	167.8
46°	217.0	235.3	249.1	255.0	247.3	235.6	207.4	193.2	178.8	167.5	157.3
46.5°	204.4	222.3	235.4	241.7	234.8	222.7	195.1	180.9	167.2	156.8	147.4
47°	191.9	209.7	221.9	228.3	221.8	210.0	182.7	168.6	155.8	146.3	137.7
47.5°	179.6	197.0	208.7	215.0	209.2	198.0	170.9	157.3	145.4	136.1	128.7
48°	168.1	184.6	195.7	202.0	197.1	186.1	159.5	145.6	134.5	126.2	119.7
48.5°	156.5	172.3	182.9	189.3	184.9	174.6	148.5	134.9	123.9	116.9	111.4
49°	145.7	160.7	170.7	177.0	172.6	163.5	137.7	124.3	113.6	108.0	103.2
49.5°	134.9	149.0	158.6	164.6	160.6	152.7	127.7	114.7	104.1	99.5	96.1
50°	124.7	137.5	147.3	153.0	149.3	142.1	117.7	105.3	95.6	92.0	89.0
50.5°	114.4	126.3	136.2	141.5	138.0	131.6	108.6	97.5	87.2	84.5	81.9
51°	105.0	115.5	125.2	130.3	127.3	121.7	99.9	89.8	78.8	77.1	74.8
51.5°	95.7	105.0	114.8	119.5	116.9	112.0	92.2	82.0	70.4	69.6	67.7
52°	86.6	95.3	104.8	109.1	106.9	102.7	84.5	74.2	63.6	62.9	61.4
52.5°	77.8	86.1	95.2	99.6	98.1	94.2	76.8	66.4	57.5	56.8	55.5
53°	69.7	77.5	86.1	90.1	89.4	85.7	69.1	60.0	52.1	51.1	49.8
53.5°	61.9	69.2	77.1	80.9	80.6	77.3	62.5	54.3	47.3	45.8	44.4
54°	54.5	61.7	69.0	72.4	71.9	68.8	56.1	48.8	42.4	40.6	38.9
54.5°	47.9	54.4	61.0	64.6	63.2	61.6	50.3	43.6	38.1	36.0	34.0
55°	41.8	47.8	53.8	57.2	56.0	54.8	44.5	38.8	33.9	31.5	29.2
55.5°	36.2	41.6	47.0	50.2	49.2	48.2	39.0	34.2	29.8	27.1	24.8
56°	31.7	35.7	40.4	43.5	42.9	42.2	34.0	29.8	25.9	23.1	20.6
56.5°	27.3	31.2	34.4	37.7	37.1	36.6	29.1	25.7	22.1	19.3	16.9
57°	22.8	26.7	29.9	33.1	31.7	31.4	24.6	21.7	18.5	15.9	13.9
57.5°	18.4	22.2	25.4	28.5	26.8	26.5	20.4	18.0	15.3	12.6	10.8
58°	13.9	17.7	20.9	24.0	22.2	22.0	16.8	14.8	12.0	9.3	7.7
58.5°	9.9	13.2	16.4	19.4	18.3	18.1	13.7	11.6	8.8	5.9	4.7
59°	6.1	9.3	12.4	14.9	15.0	14.8	10.6	8.4	5.6	2.6	1.6
59.5°	3.3	5.7	8.4	10.8	11.7	11.6	7.6	5.2	2.4	1.4	1.1
60°	2.6	3.0	5.0	6.9	8.4	8.3	4.5	2.0	1.2	1.0	0.9
60.5°	2.0	2.4	2.6	3.9	5.1	5.1	1.4	1.1	0.9	0.8	0.8
61°	1.3	1.9	2.1	3.1	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: P775765

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-2700K

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: P775765
CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-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: P775765

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	933.7	933.7	933.7	933.7	933.7	933.7
0.5°	933.1	932.6	932.9	933.7	934.0	934.0
1°	932.5	931.9	931.9	933.1	933.5	933.6
1.5°	931.7	930.8	930.7	932.3	932.7	933.0
2°	930.5	929.3	929.0	931.1	931.9	932.5
2.5°	929.0	927.6	927.2	929.7	930.9	931.9
3°	927.1	925.6	925.1	928.0	929.8	931.1
3.5°	925.0	923.2	922.8	926.1	928.5	930.4
4°	922.5	920.5	920.2	924.3	927.3	929.8
4.5°	919.6	917.5	917.4	922.2	926.0	928.9
5°	916.4	914.2	914.2	920.0	924.6	928.2
5.5°	912.7	910.8	911.0	917.6	923.2	927.6
6°	909.2	907.1	907.6	915.1	921.6	926.6
6.5°	905.2	903.2	904.1	912.5	919.7	925.7
7°	901.3	899.2	900.4	909.8	918.0	924.5
7.5°	897.2	895.3	896.7	906.7	915.8	923.1
8°	892.8	891.0	892.9	903.8	913.8	921.6
8.5°	888.5	886.9	889.0	900.6	911.1	919.8
9°	884.3	882.6	884.9	897.3	908.4	917.5
9.5°	880.0	878.3	880.7	893.8	905.4	914.9
10°	875.6	874.0	876.8	890.4	902.2	912.0
10.5°	871.1	869.7	872.8	886.6	898.8	908.8
11°	866.9	865.4	868.7	883.0	895.1	905.1
11.5°	862.2	861.0	864.4	879.2	891.3	901.5
12°	857.8	856.4	860.1	875.1	887.4	897.4
12.5°	853.1	852.0	855.8	870.9	883.3	893.2
13°	848.4	847.3	851.4	866.6	879.4	888.8
13.5°	843.2	842.6	846.7	862.1	875.2	884.5
14°	838.1	837.5	842.0	857.5	871.0	879.7
14.5°	832.8	832.7	837.0	852.5	866.9	875.2
15°	827.5	827.5	831.9	847.6	862.6	870.3
15.5°	821.8	822.1	826.8	842.3	858.0	865.5
16°	816.0	816.5	821.3	837.2	853.5	860.6
16.5°	809.9	810.7	815.5	831.9	848.8	855.6
17°	803.7	804.5	809.5	826.4	844.0	850.3
17.5°	796.8	797.9	803.1	820.8	838.8	845.3
18°	790.2	791.1	796.5	815.1	833.3	839.7
18.5°	782.9	784.0	789.6	809.3	827.4	834.2
19°	775.5	776.8	782.5	803.1	821.2	828.3
19.5°	767.9	769.2	775.3	796.8	814.8	822.3
20°	760.1	761.5	767.9	790.3	808.0	816.3
20.5°	751.8	753.7	760.2	783.3	801.1	810.0
21°	743.4	745.7	752.3	776.4	793.7	803.8

TEST NUMBER: P775765

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	718.5	721.2	728.6	752.9	769.8	783.7
23°	709.7	713.1	720.7	744.6	761.1	776.9
23.5°	700.3	704.7	712.3	736.2	752.2	769.6
24°	691.0	696.2	704.0	727.3	743.6	762.2
24.5°	681.5	687.2	695.1	718.7	734.6	754.5
25°	672.1	678.4	686.5	709.4	725.3	746.7
25.5°	662.1	669.3	677.2	700.1	715.8	738.6
26°	652.0	659.7	668.2	690.5	706.3	730.0
26.5°	641.7	649.9	658.5	681.0	696.6	721.3
27°	631.2	639.8	648.4	670.9	686.8	712.3
27.5°	620.3	629.3	637.9	660.4	676.9	702.9
28°	609.3	618.5	627.1	649.5	666.2	692.8
28.5°	597.9	607.1	616.1	638.7	655.7	683.0
29°	586.4	595.7	604.6	627.4	644.8	672.4
29.5°	574.4	583.6	592.5	616.5	633.9	661.4
30°	562.4	571.3	580.5	604.6	622.4	650.4
30.5°	550.4	558.5	568.0	593.1	611.2	639.2
31°	538.1	545.8	555.2	581.0	599.6	627.5
31.5°	525.6	532.5	541.6	568.9	587.9	615.3
32°	513.1	519.0	528.3	557.2	575.7	603.5
32.5°	500.6	505.2	515.0	544.7	563.7	591.3
33°	487.5	491.8	501.4	532.5	551.2	578.9
33.5°	474.6	477.9	487.6	519.7	539.2	565.8
34°	461.2	464.3	474.1	507.0	526.8	553.1
34.5°	448.3	450.0	460.3	494.1	514.1	539.5
35°	435.3	436.4	446.8	480.6	500.8	525.6
35.5°	422.0	422.8	433.5	467.5	487.8	511.6
36°	408.8	409.5	419.9	454.1	474.1	497.7
36.5°	394.9	396.4	406.8	440.7	460.5	483.1
37°	381.2	382.9	393.4	426.6	446.3	468.5
37.5°	367.5	369.7	380.0	412.6	432.1	453.5
38°	353.7	355.2	366.5	398.6	417.8	438.6
38.5°	340.0	342.1	352.9	384.0	403.3	423.6
39°	326.0	329.0	339.2	370.2	388.5	408.5
39.5°	312.4	315.9	325.5	354.7	373.8	394.2
40°	298.9	302.8	311.8	341.1	358.2	379.9
40.5°	285.6	289.4	298.0	327.4	343.6	365.9
41°	272.5	276.1	284.3	313.8	329.0	352.0
41.5°	259.4	263.4	270.7	300.0	314.5	338.1
42°	246.3	250.8	257.7	286.0	299.8	324.3
42.5°	233.7	238.4	245.0	272.2	285.3	310.4
43°	220.9	226.0	232.1	258.3	271.5	296.4
43.5°	208.6	214.1	219.4	244.4	257.7	282.6



TEST NUMBER: P775765

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	173.8	178.4	182.2	203.5	218.3	242.4
45.5°	163.1	167.0	170.0	190.8	206.0	229.4
46°	152.4	155.6	158.3	178.5	194.1	217.0
46.5°	142.6	145.0	146.9	166.5	182.6	204.4
47°	132.9	134.4	136.0	155.3	171.2	191.9
47.5°	123.7	123.9	125.2	144.4	159.7	179.6
48°	114.7	113.9	114.9	133.6	149.0	168.1
48.5°	106.1	104.8	105.3	123.6	138.4	156.5
49°	98.1	95.7	96.1	114.0	128.2	145.7
49.5°	90.9	87.5	87.7	105.3	118.2	134.9
50°	83.8	79.2	79.4	96.7	108.9	124.7
50.5°	76.6	72.0	72.0	88.3	99.5	114.4
51°	69.4	65.0	65.1	80.4	90.9	105.0
51.5°	63.0	59.0	58.9	73.5	82.6	95.7
52°	56.9	53.3	53.4	66.6	75.0	86.6
52.5°	51.2	48.2	48.2	60.1	67.6	77.8
53°	45.7	43.1	43.2	53.9	60.7	69.7
53.5°	40.4	38.7	38.7	48.3	54.1	61.9
54°	35.5	34.5	34.3	42.8	48.1	54.5
54.5°	31.0	30.6	30.4	37.7	42.0	47.9
55°	26.5	26.6	26.4	33.3	36.7	41.8
55.5°	22.4	22.7	22.5	29.0	32.2	36.2
56°	18.5	18.8	18.5	24.7	27.8	31.7
56.5°	15.2	15.3	15.0	20.4	23.3	27.3
57°	12.0	11.5	11.2	16.1	18.9	22.8
57.5°	8.7	7.8	7.4	12.3	14.5	18.4
58°	5.5	4.6	4.2	8.2	10.4	13.9
58.5°	2.2	3.7	3.3	4.9	6.7	9.9
59°	1.2	2.9	2.4	2.5	3.8	6.1
59.5°	0.9	2.2	1.6	2.0	3.0	3.3
60°	0.8	1.4	0.7	1.5	2.2	2.6
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: P775765

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-2700K

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: P775765
CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-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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Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	797.2	813.6	829.4	833.1	817.3	809.5	790.2	769.1	753.7	744.8	737.4
22°	790.5	807.5	824.0	827.1	811.3	803.0	782.7	762.0	745.7	737.1	728.4



44°	268.7	288.8	305.6	314.3	301.3	289.9	259.9	245.6	227.2	214.0	201.0
44.5°	255.3	275.1	291.4	298.9	288.2	276.2	246.9	232.3	215.1	202.0	189.7



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	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	0.0

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21.5°	735.1	737.6	744.6	768.9	786.0	797.2
22°	726.8	729.4	736.7	760.8	778.1	790.5



44°	196.4	201.8	206.7	230.5	244.3	268.7
44.5°	185.0	190.1	194.5	216.6	231.2	255.3

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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)