

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: P775869

Luminaire Tested: HCDJBS510CSD-HCD8TRC-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775869
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-5000K
Description: 8 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

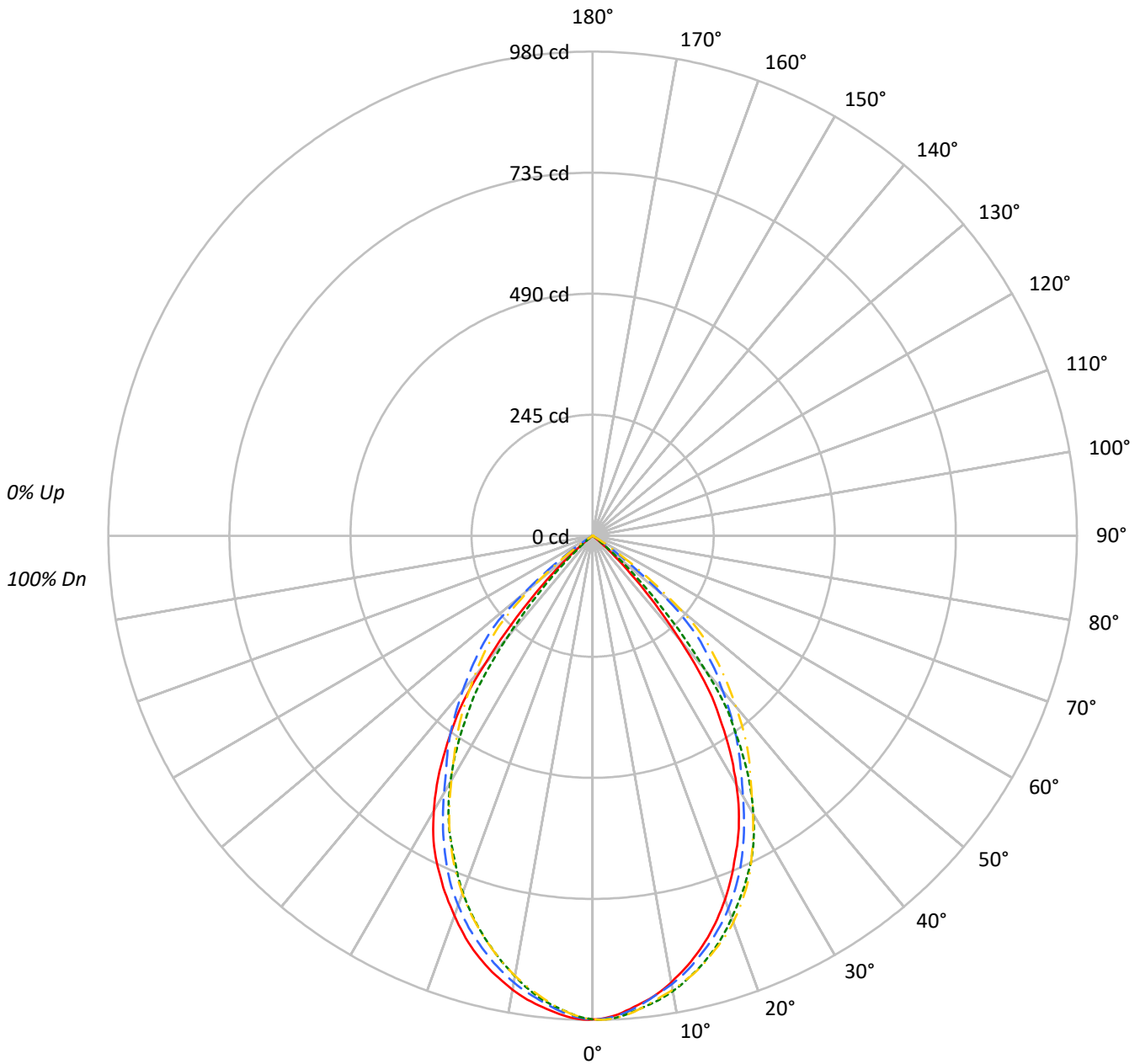
Lumens per Lamp: N/A
Luminaire Lumens: 1162.2 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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°	29889	29889	29889	29889
5°	29347	29602	29571	29206
10°	28441	29017	28918	28065
15°	27154	28070	27957	26635
20°	25452	26742	26567	24955
25°	23304	25181	24952	22893
30°	20524	22950	22668	20299
35°	16638	19422	19097	16515
40°	10928	14160	13586	10773
45°	4797	7275	6822	4693
50°	1050	2114	1886	1012
55°	138	202	186	133
60°	110	165	153	104
65°	94	137	123	87
70°	80	116	107	62
75°	59	106	83	59
80°	53	88	70	53
85°	35	70	70	35

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 15246 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	7.8
10°-20°	243.2	20.9
20°-30°	327.2	28.1
30°-40°	309.1	26.6
40°-50°	165.9	14.3
50°-60°	24.0	2.1
60°-70°	1.6	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°	660.7	56.9
0°-40°	969.9	83.5
0°-60°	1159.8	99.8
0°-90°	1162.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	979	979	979	979	979	
5°	958	966	965	953	958	90
15°	859	888	884	843	859	241
25°	692	748	741	680	692	316
35°	446	521	512	443	446	273
45°	111	168	158	109	111	92
55°	3	4	4	2	3	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°	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0	979.0
0.5°	978.9	979.0	978.9	979.1	979.3	979.5	979.6	979.9	979.7	979.2	978.3
1°	977.9	978.2	978.3	979.0	979.5	979.7	979.9	979.9	979.5	978.5	977.3
1.5°	976.4	977.2	977.4	978.2	979.1	979.5	979.6	979.6	978.8	977.6	976.1
2°	974.7	975.8	976.1	977.2	978.4	978.8	978.9	978.9	977.8	976.2	974.4
2.5°	972.7	974.0	974.4	975.8	977.4	977.7	977.9	977.8	976.4	974.4	972.4
3°	970.1	971.6	972.4	973.9	975.8	976.3	976.4	976.2	974.8	972.5	969.9
3.5°	967.3	968.9	969.9	971.6	973.9	974.5	974.6	974.3	972.7	970.0	967.1
4°	963.9	965.9	967.2	969.2	971.5	972.3	972.5	972.1	970.2	967.2	963.9
4.5°	960.9	962.9	964.1	966.0	968.7	969.7	970.0	969.5	967.6	964.3	960.5
5°	957.6	960.0	960.6	962.8	965.9	966.7	967.1	966.7	964.9	961.1	956.9
5.5°	954.3	956.6	957.0	959.1	963.0	963.7	963.8	963.7	962.4	957.9	953.4
6°	950.9	953.1	953.3	955.9	960.4	960.8	960.4	961.2	959.7	954.8	949.8
6.5°	947.9	949.8	949.3	952.5	957.9	958.1	957.0	958.2	957.1	951.5	946.0
7°	944.6	946.6	945.3	949.1	955.2	955.2	953.3	955.3	954.4	948.3	942.5
7.5°	940.7	942.9	941.2	945.9	952.7	952.4	949.8	952.1	951.2	944.7	938.8
8°	936.7	939.1	937.4	942.6	949.9	949.5	946.6	948.7	948.0	941.1	934.8
8.5°	932.6	934.9	933.4	939.1	946.8	946.6	943.0	945.1	944.6	937.2	930.9
9°	927.7	930.4	929.6	935.0	943.1	943.0	939.9	941.4	940.8	933.3	926.9
9.5°	922.7	925.7	925.7	931.1	939.7	939.5	936.6	937.3	937.0	929.4	922.7
10°	917.4	920.6	921.7	926.9	936.0	935.9	933.1	933.0	932.8	925.1	918.2
10.5°	912.0	915.3	917.4	922.8	931.9	932.0	929.7	928.6	928.4	920.9	913.4
11°	906.6	909.4	913.1	918.1	927.8	927.8	925.9	924.2	923.7	916.1	908.5
11.5°	901.3	903.7	908.4	913.4	923.0	923.4	921.8	919.3	919.3	911.3	903.4
12°	895.9	898.0	903.3	908.3	918.1	918.6	917.8	914.3	914.9	906.3	898.1
12.5°	890.4	892.4	897.9	903.1	913.4	913.5	913.6	909.4	910.4	901.8	892.7
13°	884.6	886.5	892.8	897.8	908.8	908.4	909.4	905.0	906.0	897.1	887.5
13.5°	878.3	880.8	886.9	892.8	904.3	903.7	905.0	900.4	900.9	892.6	881.6
14°	872.0	874.7	881.4	887.8	899.4	899.0	900.4	896.0	895.5	887.8	875.6
14.5°	865.5	868.3	875.4	882.8	893.8	894.1	895.4	891.1	890.1	882.5	869.7
15°	859.1	861.7	869.7	877.4	888.1	889.0	890.1	885.9	884.5	876.8	863.5
15.5°	852.4	855.3	863.5	871.6	882.2	883.3	884.6	880.4	878.8	871.0	857.5
16°	845.6	848.5	857.9	865.6	876.6	877.7	879.0	875.3	872.9	865.1	851.4
16.5°	838.4	841.9	851.7	859.5	870.8	871.7	873.6	869.6	866.8	859.1	845.5
17°	831.1	835.0	845.2	853.2	864.7	866.0	868.2	863.9	860.6	852.7	838.8
17.5°	823.6	828.3	838.4	846.8	858.5	860.0	862.8	858.0	853.9	846.2	832.6
18°	815.8	821.0	832.2	840.3	851.7	853.9	857.7	852.1	846.7	839.3	825.4
18.5°	807.8	813.6	825.2	833.7	844.9	847.4	851.9	845.8	839.6	832.1	818.2
19°	799.8	806.1	818.0	826.7	837.9	840.7	845.8	839.1	832.6	824.8	810.8
19.5°	791.7	798.5	810.7	819.2	830.4	833.8	839.2	832.1	825.0	817.4	803.2
20°	783.4	790.5	803.2	811.8	823.1	826.7	832.4	825.1	817.7	809.8	795.5
20.5°	775.0	782.5	795.2	804.0	815.8	819.4	825.2	817.8	810.5	801.9	787.9
21°	766.0	774.4	787.0	796.1	808.5	812.0	818.2	810.6	803.1	794.1	780.2



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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°	738.5	748.5	762.2	771.6	786.4	790.0	794.9	788.4	781.0	770.5	755.2
23°	728.6	739.1	753.1	763.1	778.9	782.6	786.9	780.9	773.7	762.1	746.2
23.5°	719.0	730.0	744.3	755.1	771.6	775.3	778.9	773.5	764.9	753.6	736.9
24°	709.6	720.0	734.9	746.8	763.2	767.1	770.9	765.0	756.6	745.1	727.3
24.5°	700.6	710.7	725.2	738.6	755.2	759.2	761.7	756.6	748.5	736.5	717.6
25°	691.8	701.5	715.5	730.1	747.5	750.9	752.4	748.1	740.7	727.7	707.5
25.5°	682.3	692.5	705.4	721.4	740.0	742.3	742.5	739.1	732.8	719.4	697.4
26°	672.5	684.2	695.3	712.8	731.8	734.1	732.7	730.5	724.5	711.4	687.2
26.5°	662.5	675.6	685.1	704.3	722.8	726.2	722.2	722.1	715.6	703.4	676.9
27°	651.9	666.5	674.3	696.2	713.6	718.8	711.5	714.2	706.2	695.3	666.5
27.5°	641.1	657.0	663.6	688.2	704.2	710.8	701.2	706.2	696.6	686.8	656.0
28°	629.7	646.9	652.4	679.5	694.2	702.3	690.8	697.9	686.6	677.7	645.3
28.5°	618.4	637.0	641.6	670.7	684.0	693.6	680.4	688.7	676.3	668.4	634.6
29°	606.5	626.7	630.5	661.0	673.2	684.3	670.3	679.8	665.6	658.7	623.7
29.5°	594.5	616.2	619.4	651.3	662.2	674.8	659.5	670.0	654.2	648.6	612.3
30°	582.2	605.1	608.6	641.1	651.0	664.9	649.1	660.0	643.0	638.1	600.8
30.5°	569.6	593.5	597.9	630.6	639.3	654.5	638.3	649.7	631.2	627.1	589.8
31°	555.9	581.8	587.4	619.7	627.5	643.8	627.5	639.1	619.6	616.0	579.3
31.5°	543.8	570.3	577.6	608.5	615.1	632.7	616.5	627.8	607.2	604.4	569.1
32°	530.2	558.5	567.8	597.2	602.7	621.4	606.3	616.7	595.0	592.9	559.8
32.5°	517.0	546.2	558.1	585.9	590.0	609.9	596.2	605.1	581.6	581.2	550.6
33°	502.8	534.1	548.4	574.5	577.1	598.2	587.0	593.4	568.6	569.4	542.1
33.5°	489.6	521.6	538.5	562.7	563.7	586.2	578.0	581.3	554.8	556.8	533.3
34°	475.1	508.9	529.2	550.8	549.8	574.4	569.4	569.0	540.8	544.5	524.6
34.5°	461.0	495.9	519.8	538.5	535.3	561.7	560.6	556.8	526.4	531.4	515.3
35°	446.4	482.7	510.3	526.6	521.1	548.8	552.0	544.2	512.4	518.5	506.3
35.5°	433.1	469.3	500.7	514.1	506.9	535.8	542.8	531.6	497.8	505.3	496.6
36°	419.4	456.0	490.4	501.3	492.5	522.8	533.3	518.5	483.6	491.9	487.1
36.5°	406.3	442.3	480.3	488.4	478.4	508.9	523.6	505.2	470.0	478.3	477.2
37°	389.2	429.2	470.1	475.2	464.7	495.0	513.6	491.8	456.2	465.0	467.3
37.5°	370.2	416.3	459.9	462.1	451.7	481.2	503.1	478.5	440.1	451.3	457.2
38°	351.1	403.6	449.5	448.9	435.2	467.5	492.7	465.3	423.3	438.2	447.4
38.5°	332.1	390.7	439.2	436.0	417.3	454.3	482.3	451.9	404.1	425.3	437.6
39°	313.0	373.2	429.3	423.9	398.2	441.5	472.0	439.6	383.9	412.6	427.8
39.5°	293.9	355.5	419.3	411.4	376.7	429.4	461.3	427.0	362.2	398.0	417.9
40°	274.2	337.8	409.7	399.8	355.3	414.2	451.0	414.1	340.9	381.7	408.3
40.5°	254.6	320.1	399.7	386.0	334.2	397.8	440.9	400.4	320.4	364.1	398.8
41°	236.5	302.4	390.2	368.8	314.0	380.1	430.7	384.4	300.5	345.5	389.5
41.5°	218.5	283.7	385.0	351.4	294.5	360.6	420.9	367.5	281.4	326.3	380.4
42°	202.0	265.6	374.6	334.0	275.0	340.7	410.8	349.4	261.9	307.4	371.1
42.5°	185.9	247.6	364.2	316.7	256.9	321.2	401.3	330.9	243.6	289.6	362.3
43°	170.3	229.6	353.8	299.3	237.3	302.5	391.8	312.7	224.7	272.0	353.4
43.5°	154.2	212.4	343.4	281.7	219.3	284.5	382.1	294.8	206.7	255.3	344.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	111.1	165.9	316.0	232.7	168.5	231.4	353.1	244.2	158.0	204.6	316.9
45.5°	98.0	150.8	306.9	216.3	153.6	214.0	343.3	227.3	143.2	188.9	308.1
46°	86.0	136.4	297.0	200.9	138.1	197.4	333.7	210.5	128.8	173.1	299.1
46.5°	74.0	122.3	285.3	185.0	124.3	181.6	324.3	194.4	115.2	159.2	288.8
47°	63.0	109.2	271.7	170.2	112.0	166.3	315.6	178.7	103.2	144.5	278.8
47.5°	52.8	96.5	257.9	155.5	99.7	151.1	304.4	163.8	91.3	131.1	267.0
48°	44.3	84.5	244.1	142.0	87.4	136.7	293.3	149.2	79.2	117.4	255.5
48.5°	36.8	73.0	230.9	128.2	75.1	122.9	280.6	135.2	67.4	105.6	240.1
49°	31.8	62.4	215.5	115.3	62.9	110.6	265.3	121.5	57.4	93.6	223.5
49.5°	27.0	52.5	200.0	102.5	53.2	98.5	249.5	109.6	48.3	81.8	205.8
50°	22.1	43.5	183.0	90.4	44.5	86.4	232.3	97.7	39.7	70.0	188.5
50.5°	17.3	35.6	165.9	78.6	36.5	74.3	215.2	85.8	32.1	59.9	172.1
51°	13.4	30.8	149.3	68.1	29.3	62.2	197.9	74.0	25.4	50.8	156.2
51.5°	9.7	26.0	133.7	58.1	23.4	52.7	181.2	62.2	21.1	42.4	140.9
52°	6.1	21.1	119.0	48.9	19.5	43.9	164.2	52.5	16.7	34.3	125.7
52.5°	3.7	16.3	105.1	40.6	15.7	35.7	148.6	43.5	12.5	27.2	113.1
53°	3.3	12.6	91.8	34.6	11.7	28.7	132.9	35.5	8.1	21.0	100.5
53.5°	3.1	9.1	79.3	28.6	7.9	22.7	118.2	28.2	3.9	17.4	87.9
54°	2.9	5.5	67.9	22.5	4.2	18.8	105.3	21.8	3.7	13.8	75.2
54.5°	2.7	3.1	57.6	16.4	3.9	14.9	92.4	18.0	3.6	10.1	62.6
55°	2.6	2.9	48.2	10.5	3.8	11.1	79.6	14.3	3.5	6.5	53.0
55.5°	2.5	2.7	39.9	6.1	3.6	7.3	66.7	10.5	3.4	3.0	44.3
56°	2.3	2.6	34.2	3.3	3.5	3.4	56.1	6.7	3.3	2.9	36.3
56.5°	2.3	2.3	28.7	3.1	3.4	3.2	46.4	3.1	3.2	2.8	29.3
57°	2.2	2.2	23.0	3.0	3.3	3.1	37.8	3.0	3.1	2.7	23.2
57.5°	2.1	2.2	17.5	2.9	3.2	3.0	30.1	2.9	3.0	2.7	18.3
58°	2.0	2.1	11.9	2.8	3.1	2.9	23.5	2.9	2.9	2.6	15.5
58.5°	2.0	2.0	9.2	2.7	3.0	2.8	18.0	2.8	2.8	2.5	12.7
59°	1.9	2.0	7.0	2.6	2.9	2.8	15.1	2.7	2.7	2.3	9.8
59.5°	1.9	1.9	5.4	2.5	2.8	2.7	12.4	2.6	2.6	2.3	7.0
60°	1.8	1.9	4.2	2.5	2.7	2.6	9.7	2.5	2.5	2.2	4.3
60.5°	1.7	1.8	3.5	2.3	2.6	2.5	6.9	2.5	2.5	2.1	3.2
61°	1.7	1.8	3.0	2.2	2.6	2.3	4.2	2.3	2.3	2.1	2.3
61.5°	1.6	1.7	2.5	2.2	2.5	2.3	3.1	2.2	2.2	2.0	1.9
62°	1.6	1.7	1.8	2.1	2.3	2.2	2.5	2.2	2.1	1.9	1.7
62.5°	1.5	1.6	1.8	2.0	2.2	2.1	2.0	2.1	2.1	1.9	1.7
63°	1.5	1.6	1.7	2.0	2.2	2.1	1.9	2.0	2.0	1.8	1.6
63.5°	1.4	1.5	1.7	1.9	2.1	2.0	1.9	2.0	1.9	1.8	1.6
64°	1.4	1.5	1.6	1.9	2.0	2.0	1.8	1.9	1.9	1.7	1.5
64.5°	1.3	1.4	1.6	1.8	2.0	1.9	1.8	1.8	1.8	1.7	1.5
65°	1.3	1.4	1.5	1.7	1.9	1.8	1.7	1.8	1.7	1.6	1.4
65.5°	1.2	1.4	1.5	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.4
66°	1.2	1.3	1.4	1.6	1.8	1.7	1.6	1.7	1.6	1.5	1.3



TEST NUMBER: P775869

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.1	1.2	1.3	1.5	1.6	1.6	1.5	1.5	1.4	1.4	1.2
68°	1.0	1.1	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.3	1.2
68.5°	1.0	1.1	1.2	1.4	1.5	1.5	1.4	1.4	1.3	1.3	1.1
69°	1.0	1.0	1.2	1.3	1.4	1.4	1.3	1.3	1.3	1.2	1.1
69.5°	0.9	1.0	1.1	1.3	1.4	1.4	1.3	1.3	1.2	1.2	1.1
70°	0.9	1.0	1.1	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.0
70.5°	0.9	0.9	1.0	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.0
71°	0.7	0.9	1.0	1.1	1.3	1.2	1.1	1.1	1.1	1.1	0.9
71.5°	0.7	0.9	1.0	1.1	1.2	1.2	1.1	1.1	1.1	1.0	0.9
72°	0.7	0.7	0.9	1.1	1.2	1.1	1.0	1.1	1.0	1.0	0.9
72.5°	0.7	0.7	0.9	1.0	1.1	1.1	1.0	1.0	1.0	0.9	0.7
73°	0.6	0.7	0.7	1.0	1.1	1.1	0.9	1.0	1.0	0.9	0.7
73.5°	0.6	0.7	0.7	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.6
74°	0.6	0.6	0.7	0.9	1.0	1.0	0.9	0.9	0.9	0.7	0.6
74.5°	0.6	0.6	0.6	0.9	1.0	1.0	0.7	0.9	0.9	0.7	0.6
75°	0.5	0.6	0.6	0.7	0.9	0.9	0.7	0.7	0.7	0.7	0.5
75.5°	0.5	0.5	0.6	0.7	0.9	0.9	0.6	0.7	0.7	0.6	0.5
76°	0.5	0.5	0.5	0.7	0.9	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: P775869
CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

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: P775869

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	979.0	979.0	979.0	979.0	979.0	979.0
0.5°	978.1	977.5	977.7	977.9	978.4	978.9
1°	976.9	976.1	975.9	976.4	977.3	977.9
1.5°	975.2	974.0	973.9	974.4	975.6	976.4
2°	973.2	971.6	971.2	971.9	973.3	974.7
2.5°	970.9	968.7	968.3	969.2	970.9	972.7
3°	968.0	965.6	965.3	966.1	968.1	970.1
3.5°	964.9	962.5	961.7	962.8	964.8	967.3
4°	961.8	959.5	958.6	958.8	961.3	963.9
4.5°	958.8	956.4	955.1	954.9	957.4	960.9
5°	955.6	953.0	951.5	951.0	953.7	957.6
5.5°	952.2	949.2	947.5	946.8	949.8	954.3
6°	948.5	945.7	943.6	942.4	945.5	950.9
6.5°	944.7	941.5	939.5	938.1	941.4	947.9
7°	940.9	937.4	934.8	933.6	937.6	944.6
7.5°	936.5	932.5	930.0	929.0	933.3	940.7
8°	931.8	927.6	925.0	924.5	929.0	936.7
8.5°	926.7	922.2	919.5	919.4	924.4	932.6
9°	921.5	916.7	913.9	914.5	919.6	927.7
9.5°	915.9	911.1	907.9	909.4	914.6	922.7
10°	910.3	905.3	902.2	904.2	909.2	917.4
10.5°	904.6	899.3	895.9	898.9	903.7	912.0
11°	898.7	893.4	889.6	893.3	898.0	906.6
11.5°	892.7	887.7	883.3	887.6	892.4	901.3
12°	886.8	881.7	877.4	881.6	886.5	895.9
12.5°	881.2	875.3	871.3	875.5	880.9	890.4
13°	875.4	868.9	865.3	869.3	875.1	884.6
13.5°	869.1	862.4	858.5	862.9	869.5	878.3
14°	863.2	855.8	851.7	856.2	863.6	872.0
14.5°	856.7	849.3	844.9	849.7	857.4	865.5
15°	850.4	842.7	838.4	843.2	850.9	859.1
15.5°	843.7	835.9	831.5	836.6	844.2	852.4
16°	837.4	828.8	824.7	829.9	837.5	845.6
16.5°	830.7	822.0	817.6	823.0	830.6	838.4
17°	824.0	814.7	810.7	816.2	823.6	831.1
17.5°	817.1	807.3	803.5	809.0	816.4	823.6
18°	810.2	799.6	796.1	801.7	809.0	815.8
18.5°	802.7	792.1	788.7	794.4	801.3	807.8
19°	795.2	784.2	780.9	786.5	793.5	799.8
19.5°	787.8	776.2	773.2	778.8	785.4	791.7
20°	780.3	768.1	765.0	770.8	776.9	783.4
20.5°	772.7	759.6	757.2	762.6	768.5	775.0
21°	764.6	751.0	749.1	754.2	759.8	766.0

TEST NUMBER: P775869

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	738.7	723.6	723.0	728.4	733.1	738.5
23°	729.9	714.1	714.1	719.1	723.7	728.6
23.5°	720.4	705.5	704.5	710.1	714.3	719.0
24°	710.9	696.9	695.0	700.3	704.7	709.6
24.5°	701.0	688.3	686.1	690.7	694.6	700.6
25°	691.7	679.6	677.4	680.7	684.2	691.8
25.5°	682.6	670.9	669.3	671.0	674.6	682.3
26°	674.2	661.8	660.6	660.4	665.1	672.5
26.5°	666.0	652.3	652.1	650.0	656.3	662.5
27°	657.8	642.4	643.6	639.2	647.2	651.9
27.5°	649.1	632.0	634.5	628.1	637.7	641.1
28°	640.3	621.1	625.3	616.8	628.1	629.7
28.5°	630.9	610.2	615.6	605.7	618.2	618.4
29°	621.3	599.1	605.6	594.3	607.9	606.5
29.5°	611.2	587.4	595.4	583.1	597.1	594.5
30°	601.0	575.8	584.6	571.8	586.1	582.2
30.5°	590.4	563.6	573.6	561.1	574.9	569.6
31°	579.8	551.1	562.2	550.5	563.4	555.9
31.5°	568.5	538.4	550.8	540.1	551.7	543.8
32°	557.6	525.7	539.2	529.7	539.7	530.2
32.5°	546.2	512.3	527.6	520.0	527.7	517.0
33°	534.6	499.0	515.3	510.3	515.6	502.8
33.5°	523.0	485.2	502.6	501.0	503.5	489.6
34°	511.1	471.1	490.1	491.7	491.3	475.1
34.5°	498.7	457.1	476.7	482.0	478.5	461.0
35°	486.5	443.1	463.5	472.2	465.9	446.4
35.5°	474.1	429.9	450.1	462.4	453.3	433.1
36°	461.7	417.1	436.8	452.1	440.5	419.4
36.5°	448.7	404.0	423.3	441.9	427.8	406.3
37°	436.0	387.3	410.4	432.0	414.9	389.2
37.5°	423.3	367.8	397.6	422.0	402.1	370.2
38°	410.8	348.3	386.4	412.0	389.5	351.1
38.5°	399.1	328.9	369.0	401.8	375.8	332.1
39°	388.2	309.4	351.5	392.3	362.2	313.0
39.5°	376.3	289.9	334.0	381.4	348.4	293.9
40°	361.3	270.3	316.6	372.6	334.7	274.2
40.5°	344.0	251.0	299.2	363.8	321.0	254.6
41°	326.5	232.6	281.7	354.9	304.7	236.5
41.5°	309.2	214.7	263.8	346.1	288.5	218.5
42°	292.3	198.2	245.9	337.1	272.5	202.0
42.5°	275.2	182.6	228.2	328.0	255.7	185.9
43°	258.0	166.8	211.4	319.2	239.1	170.3
43.5°	240.4	151.1	195.4	310.1	222.7	154.2



TEST NUMBER: P775869

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	191.8	108.7	151.0	284.4	177.6	111.1
45.5°	176.9	96.1	136.7	274.3	163.5	98.0
46°	162.1	83.9	123.4	263.2	149.6	86.0
46.5°	147.7	72.3	110.3	249.2	135.3	74.0
47°	133.7	61.3	98.0	235.8	122.3	63.0
47.5°	120.1	51.6	85.7	222.9	109.3	52.8
48°	108.2	43.2	74.3	209.4	97.2	44.3
48.5°	96.4	36.0	63.7	195.0	85.1	36.8
49°	84.7	31.0	53.9	178.4	74.2	31.8
49.5°	72.8	26.1	45.1	161.9	63.2	27.0
50°	61.0	21.3	37.3	146.8	53.4	22.1
50.5°	51.3	16.5	32.4	132.2	44.5	17.3
51°	42.7	12.7	27.6	118.8	36.9	13.4
51.5°	35.2	9.0	22.7	105.8	32.1	9.7
52°	29.0	5.4	17.9	93.5	27.3	6.1
52.5°	23.8	3.2	13.0	82.0	22.5	3.7
53°	19.4	3.0	9.3	71.2	17.7	3.3
53.5°	16.1	2.9	5.8	61.0	13.0	3.1
54°	12.8	2.7	3.2	52.0	9.3	2.9
54.5°	9.4	2.6	3.0	43.8	5.9	2.7
55°	6.1	2.5	2.7	36.4	3.3	2.6
55.5°	2.8	2.3	2.5	30.9	3.0	2.5
56°	2.2	2.2	2.2	25.5	2.7	2.3
56.5°	2.2	2.2	2.1	20.0	2.3	2.3
57°	2.1	2.1	2.0	14.6	2.1	2.2
57.5°	2.0	2.0	2.0	11.1	2.0	2.1
58°	2.0	2.0	1.9	8.4	1.9	2.0
58.5°	1.9	1.9	1.9	6.2	1.9	2.0
59°	1.9	1.8	1.8	4.6	1.8	1.9
59.5°	1.8	1.8	1.8	4.1	1.8	1.9
60°	1.8	1.7	1.7	3.4	1.7	1.8
60.5°	1.7	1.7	1.7	2.8	1.7	1.7
61°	1.7	1.6	1.6	2.1	1.6	1.7
61.5°	1.6	1.6	1.6	1.6	1.6	1.6
62°	1.6	1.5	1.5	1.5	1.5	1.6
62.5°	1.5	1.5	1.5	1.5	1.5	1.5
63°	1.5	1.4	1.4	1.4	1.5	1.5
63.5°	1.4	1.3	1.4	1.4	1.4	1.4
64°	1.4	1.3	1.3	1.4	1.4	1.4
64.5°	1.3	1.2	1.3	1.3	1.3	1.3
65°	1.3	1.2	1.3	1.3	1.3	1.3
65.5°	1.3	1.2	1.2	1.2	1.3	1.2
66°	1.2	1.1	1.2	1.2	1.2	1.2



TEST NUMBER: P775869

CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.1	1.0	1.1	1.1	1.1	1.1
68°	1.0	1.0	1.0	1.1	1.1	1.0
68.5°	1.0	0.9	1.0	1.0	1.0	1.0
69°	1.0	0.9	1.0	1.0	1.0	1.0
69.5°	0.9	0.9	0.9	1.0	1.0	0.9
70°	0.9	0.7	0.9	0.9	0.9	0.9
70.5°	0.9	0.7	0.9	0.9	0.9	0.9
71°	0.7	0.7	0.7	0.7	0.9	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: P775869
CATALOG NUMBER: HCDJBL510CSD-HCD8TRC-1000lm-5000K

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°	757.2	765.9	778.9	787.9	801.1	804.6	810.9	803.2	795.8	786.2	772.5
22°	748.1	757.4	770.6	779.6	793.7	797.3	803.0	795.8	788.4	778.4	764.1



44°	139.1	196.6	334.1	265.3	200.9	266.8	372.5	277.5	189.3	237.9	335.3
44.5°	124.6	181.1	324.7	248.8	184.9	249.4	362.7	261.0	173.2	221.4	326.1



66.5°	1.1	1.3	1.4	1.6	1.7	1.7	1.5	1.6	1.5	1.5	1.3
67°	1.1	1.2	1.4	1.5	1.6	1.6	1.5	1.5	1.5	1.4	1.3



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°	756.3	742.2	740.3	746.0	751.2	757.2
22°	747.6	732.8	731.6	737.2	742.2	748.1



44°	223.3	136.5	180.5	301.2	206.7	139.1
44.5°	207.3	122.0	165.6	292.2	191.8	124.6

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66.5°	1.2	1.1	1.1	1.2	1.2	1.1
67°	1.1	1.0	1.1	1.1	1.1	1.1

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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)