

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: P775768

Luminaire Tested: HCDJBS510CSD-HCD6TRC-1000lm-4000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775768  
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-4000K  
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

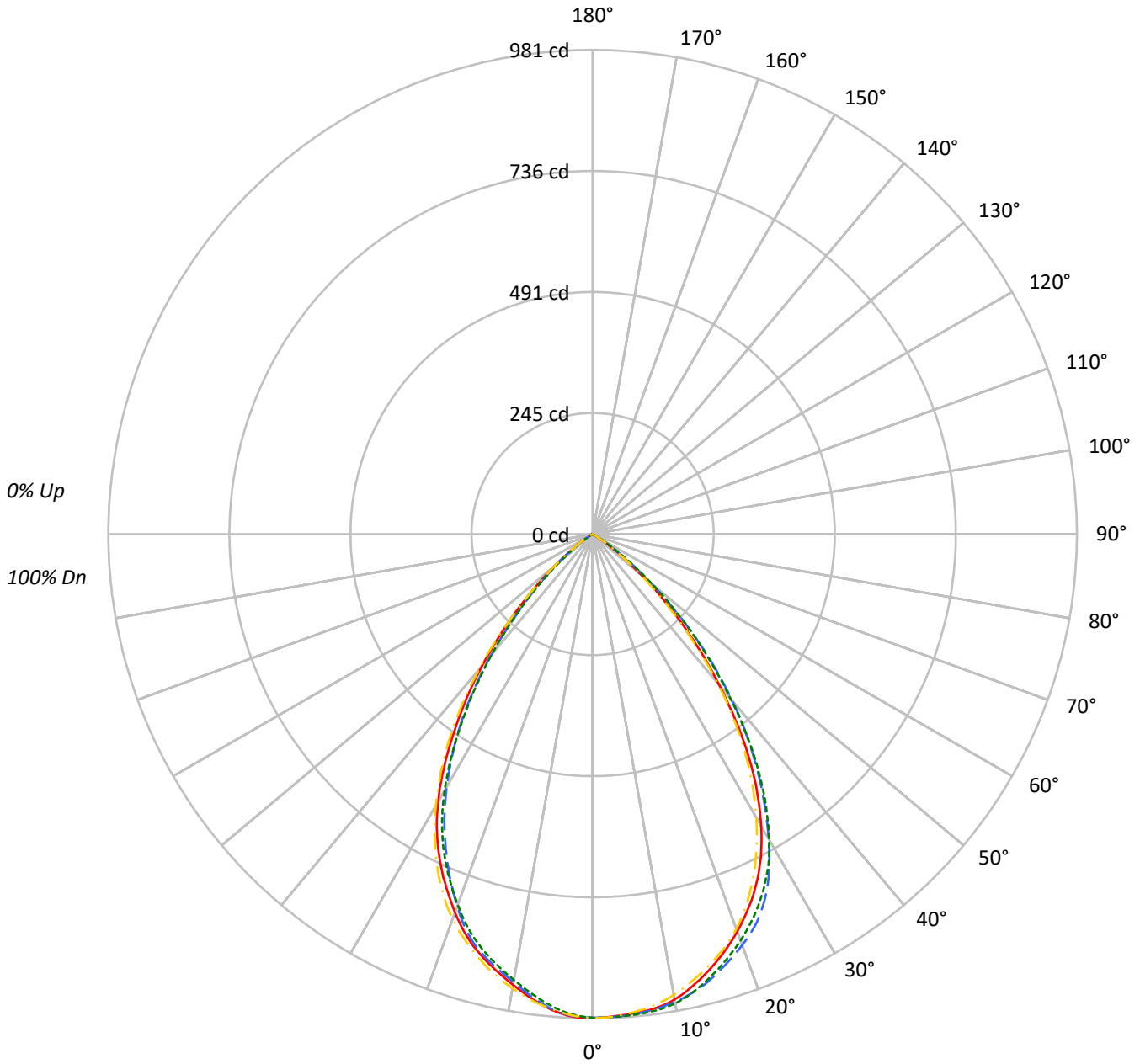
Lumens per Lamp: N/A  
Luminaire Lumens: 1238.7 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P775768  
CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

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

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

	0°	90°	180°	270°
0°	53729	53729	53729	53729
5°	53621	53780	53214	52812
10°	53294	53740	51630	51073
15°	51850	52639	50006	49302
20°	49990	51122	47563	46630
25°	47416	48977	44253	43073
30°	43222	45266	39652	37968
35°	36921	39230	32712	30657
40°	28539	31094	24861	22750
45°	19723	22328	16482	14521
50°	11164	13364	8563	7087
55°	4196	5610	3403	2676
60°	296	965	143	164
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: 23088 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	7.4
10°-20°	252.6	20.4
20°-30°	347.0	28.0
30°-40°	322.6	26.0
40°-50°	182.2	14.7
50°-60°	42.0	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°	691.3	55.8
0°-40°	1013.9	81.9
0°-60°	1238.1	100.0
0°-90°	1238.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	980	980	980	980	980	
5°	974	977	967	960	974	93
15°	914	928	881	869	914	257
25°	784	810	732	712	784	358
35°	552	586	489	458	552	340
45°	254	288	213	187	254	197
55°	44	59	36	28	44	45
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°	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1
0.5°	980.4	979.9	979.9	980.3	979.8	980.3	980.7	980.9	980.6	979.9	979.5
1°	980.0	979.9	979.9	980.3	979.9	980.4	980.6	980.7	980.5	979.9	979.3
1.5°	979.4	979.4	979.7	980.3	979.7	980.4	980.1	980.3	980.0	979.4	978.6
2°	978.8	979.0	979.5	980.3	979.6	980.3	979.5	979.5	979.4	978.8	977.8
2.5°	978.2	978.7	979.3	980.0	979.4	979.8	978.6	978.4	978.2	977.8	976.7
3°	977.4	978.2	978.7	979.6	979.0	979.3	977.6	977.0	976.6	976.5	975.4
3.5°	976.6	977.7	978.2	979.3	978.7	978.6	976.4	975.4	974.6	974.6	973.5
4°	976.0	977.2	977.7	978.7	978.2	978.0	975.2	973.4	972.5	972.3	971.3
4.5°	975.2	976.4	977.0	978.2	977.8	977.4	973.6	971.2	969.9	969.7	968.4
5°	974.4	975.8	976.3	977.5	977.3	976.6	972.1	968.7	967.0	966.7	965.3
5.5°	973.8	974.9	975.5	976.7	976.7	975.9	970.3	966.0	963.7	963.3	961.8
6°	972.7	974.0	974.4	976.0	976.3	975.1	968.5	963.3	960.4	959.8	957.9
6.5°	971.8	972.8	973.4	975.1	975.5	974.3	966.6	960.2	956.7	955.8	954.0
7°	970.5	971.7	972.1	974.1	974.7	973.3	964.8	957.2	952.9	951.9	949.7
7.5°	969.1	970.2	970.8	972.9	973.9	972.3	962.4	954.0	948.9	947.7	945.3
8°	967.5	968.5	969.4	971.8	972.7	971.2	959.9	950.5	944.8	943.4	940.7
8.5°	965.6	966.6	967.8	970.2	971.3	969.6	957.3	947.0	940.5	938.9	936.2
9°	963.2	964.5	966.1	968.9	969.5	967.9	954.5	943.4	936.4	934.7	931.5
9.5°	960.4	962.0	964.3	967.1	967.5	965.8	951.2	939.9	932.0	930.3	927.0
10°	957.4	959.5	962.3	965.2	965.4	963.3	947.7	936.2	927.5	925.7	922.5
10.5°	954.0	956.6	960.3	963.0	962.7	960.4	944.3	932.2	923.0	921.1	917.8
11°	950.1	953.3	957.9	960.7	959.6	957.2	940.6	928.2	918.5	916.5	913.2
11.5°	946.4	949.7	955.6	958.2	956.3	953.5	936.5	924.4	914.1	911.9	908.6
12°	942.1	946.2	952.8	955.6	952.7	949.5	932.4	920.3	909.7	907.2	904.3
12.5°	937.6	942.3	950.0	952.7	949.0	945.2	928.0	916.0	905.1	902.1	899.9
13°	933.0	938.3	946.8	949.7	945.0	940.9	924.0	911.6	900.5	897.2	895.6
13.5°	928.5	934.0	943.6	946.7	940.8	936.4	919.4	907.1	895.8	891.8	891.0
14°	923.5	929.7	940.1	943.4	936.5	931.5	915.1	902.3	891.1	886.4	886.4
14.5°	918.7	925.4	936.2	939.9	932.0	926.6	910.4	897.2	886.2	880.6	881.4
15°	913.6	920.8	932.0	936.5	927.5	921.6	905.9	892.0	881.1	874.9	876.4
15.5°	908.5	916.2	927.8	932.5	922.9	916.6	901.1	886.8	875.9	868.8	871.0
16°	903.4	911.6	923.3	928.5	918.1	911.7	896.5	880.9	870.5	862.6	865.3
16.5°	898.1	906.8	918.7	924.2	913.4	906.6	891.5	875.0	864.6	856.4	858.9
17°	892.6	902.0	914.2	920.0	908.3	901.5	886.5	869.2	858.4	849.7	852.2
17.5°	887.3	897.2	909.6	915.4	903.2	896.3	881.4	862.9	851.9	842.5	844.9
18°	881.5	892.3	905.0	910.9	897.9	891.0	875.8	856.7	845.4	835.8	837.2
18.5°	875.7	887.5	900.3	906.3	892.8	885.7	870.4	850.0	838.1	828.6	828.9
19°	869.5	882.5	895.7	901.6	887.3	880.5	864.4	843.5	830.9	821.3	820.4
19.5°	863.2	877.2	891.0	896.7	881.9	874.8	857.9	836.7	823.2	813.5	811.6
20°	856.9	871.8	886.0	891.3	876.3	869.1	851.3	829.6	815.3	806.1	802.6
20.5°	850.3	866.2	881.2	885.9	870.2	862.8	844.2	822.1	807.3	798.2	793.1
21°	843.8	860.3	876.1	880.4	864.2	856.4	837.0	814.9	799.3	790.1	783.7



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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°	822.7	841.0	859.1	861.9	845.3	835.8	813.2	791.9	774.6	765.7	755.2
23°	815.5	833.8	852.6	854.8	838.3	828.2	804.8	783.8	766.4	757.5	745.1
23.5°	807.8	826.4	846.0	847.8	831.6	820.8	796.0	775.8	758.2	748.4	734.8
24°	800.1	818.8	838.4	840.1	824.6	812.8	787.1	767.8	749.4	739.2	724.5
24.5°	792.0	811.0	830.5	831.9	817.2	804.7	778.3	759.8	740.5	730.0	714.1
25°	783.9	802.8	822.2	823.7	809.7	796.5	769.4	751.1	731.6	720.4	703.8
25.5°	775.4	794.0	813.4	815.0	802.0	787.8	760.6	742.2	722.2	710.7	693.3
26°	766.3	785.0	804.0	805.9	793.3	779.1	749.8	732.8	712.7	701.2	682.8
26.5°	757.2	776.0	794.3	796.4	784.7	770.3	739.6	723.1	703.1	691.0	672.3
27°	747.7	766.3	784.0	786.5	776.1	761.7	729.7	713.5	693.0	680.8	661.6
27.5°	737.9	755.9	773.4	776.4	767.5	752.6	718.8	703.3	682.9	670.2	650.3
28°	727.2	745.4	761.8	765.7	758.8	742.3	708.3	692.7	672.6	659.0	639.1
28.5°	716.9	734.4	750.4	754.8	748.5	732.5	697.2	681.6	661.6	647.4	627.2
29°	705.8	722.9	738.2	743.2	737.8	721.6	686.0	670.5	650.2	635.6	615.6
29.5°	694.3	711.8	726.1	731.6	726.5	711.0	674.4	658.8	638.2	623.6	603.2
30°	682.8	699.4	713.4	719.6	715.1	699.8	662.9	647.1	626.4	611.3	590.8
30.5°	671.0	687.6	700.9	707.7	703.3	688.6	650.9	634.8	613.7	598.7	578.3
31°	658.7	675.3	687.7	694.8	691.4	676.7	638.8	622.1	600.9	585.9	566.0
31.5°	645.9	662.7	674.6	682.2	679.0	665.0	626.5	609.5	587.8	572.9	553.4
32°	633.5	649.7	661.2	668.8	666.4	652.8	614.3	596.7	574.1	559.7	540.9
32.5°	620.7	636.7	648.0	655.6	653.7	640.8	601.6	583.5	560.2	545.9	528.1
33°	607.6	623.5	634.1	642.1	640.6	627.6	588.9	570.0	546.3	531.9	515.5
33.5°	594.0	610.2	621.2	628.8	627.6	614.8	576.1	556.5	532.1	518.0	502.9
34°	580.6	596.3	607.4	615.0	613.7	601.6	563.4	542.6	517.7	503.6	489.9
34.5°	566.3	582.5	594.0	601.6	600.1	588.1	550.3	528.9	503.0	489.6	476.7
35°	551.7	568.0	580.3	587.8	586.2	574.0	537.3	514.8	488.8	475.4	463.1
35.5°	537.0	553.7	566.8	574.1	572.1	560.2	524.2	500.9	474.6	461.0	449.6
36°	522.4	539.3	553.2	560.5	557.8	545.9	510.5	486.7	460.6	447.1	435.7
36.5°	507.2	524.6	539.1	546.6	542.8	531.5	496.4	472.6	446.5	432.8	421.5
37°	491.8	510.3	525.7	532.5	527.8	517.1	482.4	458.6	432.6	418.7	406.9
37.5°	476.1	495.2	512.0	518.2	512.5	502.2	467.9	444.5	418.7	404.6	392.6
38°	460.4	480.3	497.8	503.9	497.2	487.0	453.5	430.1	404.9	390.1	378.0
38.5°	444.6	465.2	483.4	489.1	481.5	471.8	438.8	416.0	391.1	376.0	363.7
39°	428.8	450.2	468.9	474.8	466.0	456.5	423.6	401.7	376.5	361.7	349.1
39.5°	413.9	435.2	454.5	460.0	450.1	441.0	408.8	387.4	362.0	347.5	334.1
40°	398.8	419.5	439.6	445.5	434.5	425.1	393.8	372.9	347.4	333.0	319.8
40.5°	384.1	404.2	424.9	430.5	419.3	409.7	378.5	358.6	332.8	319.0	305.0
41°	369.5	388.9	409.9	415.4	404.0	394.1	362.9	344.3	318.4	305.0	290.5
41.5°	354.9	371.9	395.0	400.2	389.2	378.6	347.3	329.9	304.0	290.9	276.1
42°	340.4	358.3	380.5	385.2	374.2	363.5	331.9	315.4	290.5	277.2	262.1
42.5°	325.8	344.6	365.6	370.1	360.2	348.4	317.0	301.2	277.6	263.7	249.1
43°	311.2	330.9	350.7	355.3	345.8	333.8	301.7	286.1	264.4	250.2	235.7
43.5°	296.7	317.3	335.8	346.0	331.0	319.1	286.8	271.8	251.6	237.2	223.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	254.4	274.9	291.3	297.8	288.0	275.3	244.9	229.9	212.6	199.9	187.2
45.5°	240.8	260.8	276.4	281.9	273.5	261.3	231.3	216.1	200.1	187.5	176.1
46°	227.8	247.0	261.5	267.7	259.6	247.3	217.8	202.8	187.7	175.8	165.1
46.5°	214.6	233.3	247.1	253.7	246.4	233.7	204.8	189.9	175.5	164.6	154.7
47°	201.5	220.2	232.9	239.6	232.8	220.5	191.8	177.0	163.5	153.5	144.5
47.5°	188.5	206.8	219.1	225.7	219.6	207.9	179.4	165.1	152.6	142.8	135.1
48°	176.5	193.8	205.5	212.1	206.9	195.4	167.4	152.8	141.1	132.5	125.7
48.5°	164.3	180.9	192.0	198.7	194.1	183.3	155.9	141.6	130.1	122.7	117.0
49°	152.9	168.7	179.2	185.8	181.2	171.6	144.5	130.5	119.3	113.4	108.4
49.5°	141.6	156.4	166.5	172.8	168.6	160.3	134.1	120.4	109.3	104.5	100.9
50°	130.9	144.3	154.6	160.6	156.7	149.1	123.6	110.6	100.4	96.6	93.4
50.5°	120.1	132.6	142.9	148.5	144.8	138.2	114.0	102.4	91.5	88.7	86.0
51°	110.2	121.3	131.5	136.8	133.7	127.8	104.9	94.3	82.7	80.9	78.5
51.5°	100.5	110.2	120.5	125.5	122.7	117.6	96.8	86.1	73.9	73.0	71.0
52°	90.9	100.0	110.0	114.6	112.2	107.8	88.7	77.9	66.7	66.0	64.4
52.5°	81.7	90.4	99.9	104.6	103.0	98.9	80.6	69.7	60.3	59.6	58.2
53°	73.1	81.3	90.4	94.6	93.8	90.0	72.5	63.0	54.6	53.6	52.2
53.5°	64.9	72.6	80.9	84.9	84.6	81.1	65.6	57.0	49.6	48.0	46.6
54°	57.2	64.7	72.4	76.0	75.5	72.2	58.9	51.2	44.6	42.7	40.9
54.5°	50.2	57.1	64.0	67.8	66.3	64.6	52.8	45.8	40.0	37.8	35.7
55°	43.9	50.1	56.4	60.0	58.7	57.5	46.7	40.8	35.6	33.1	30.7
55.5°	38.0	43.7	49.3	52.7	51.6	50.5	41.0	35.9	31.3	28.5	26.1
56°	33.3	37.5	42.5	45.7	45.1	44.3	35.7	31.3	27.2	24.3	21.6
56.5°	28.7	32.8	36.2	39.6	39.0	38.5	30.6	27.0	23.2	20.3	17.8
57°	24.0	28.1	31.4	34.8	33.3	33.0	25.9	22.8	19.4	16.7	14.6
57.5°	19.3	23.3	26.7	30.0	28.2	27.8	21.4	18.9	16.1	13.2	11.4
58°	14.6	18.6	22.0	25.2	23.3	23.1	17.7	15.6	12.6	9.8	8.1
58.5°	10.4	13.9	17.2	20.4	19.2	19.0	14.4	12.2	9.2	6.2	4.9
59°	6.4	9.8	13.0	15.7	15.8	15.6	11.1	8.8	5.9	2.7	1.7
59.5°	3.5	6.0	8.8	11.4	12.3	12.2	8.0	5.5	2.5	1.5	1.2
60°	2.7	3.2	5.3	7.3	8.8	8.7	4.7	2.1	1.3	1.1	0.9
60.5°	2.1	2.5	2.7	4.1	5.4	5.4	1.5	1.2	0.9	0.8	0.8
61°	1.4	2.0	2.2	3.3	2.0	1.9	0.9	0.8	0.8	0.7	0.7
61.5°	0.7	1.4	1.7	2.4	1.2	1.1	0.7	0.7	0.7	0.6	0.6
62°	0.6	0.8	1.3	1.7	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: P775768

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**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: P775768  
CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**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: P775768

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	980.1	980.1	980.1	980.1	980.1	980.1
0.5°	979.5	978.9	979.3	980.1	980.4	980.4
1°	978.8	978.2	978.2	979.5	979.9	980.0
1.5°	978.0	977.0	976.9	978.6	979.0	979.4
2°	976.7	975.6	975.3	977.4	978.2	978.8
2.5°	975.3	973.8	973.4	975.9	977.2	978.2
3°	973.3	971.7	971.2	974.2	976.0	977.4
3.5°	971.1	969.2	968.7	972.2	974.7	976.6
4°	968.4	966.3	966.0	970.3	973.5	976.0
4.5°	965.4	963.2	963.1	968.1	972.1	975.2
5°	962.0	959.7	959.7	965.8	970.6	974.4
5.5°	958.1	956.1	956.3	963.3	969.2	973.8
6°	954.5	952.2	952.8	960.7	967.5	972.7
6.5°	950.2	948.1	949.1	957.9	965.5	971.8
7°	946.2	943.9	945.2	955.1	963.7	970.5
7.5°	941.8	939.8	941.3	951.8	961.4	969.1
8°	937.2	935.3	937.3	948.8	959.3	967.5
8.5°	932.7	931.0	933.2	945.4	956.4	965.6
9°	928.3	926.5	928.9	941.9	953.6	963.2
9.5°	923.8	922.0	924.5	938.3	950.5	960.4
10°	919.1	917.5	920.4	934.7	947.1	957.4
10.5°	914.4	912.9	916.2	930.7	943.5	954.0
11°	910.0	908.4	911.9	926.9	939.6	950.1
11.5°	905.1	903.8	907.4	922.9	935.6	946.4
12°	900.4	899.0	902.9	918.6	931.5	942.1
12.5°	895.5	894.3	898.3	914.2	927.2	937.6
13°	890.6	889.4	893.7	909.7	923.1	933.0
13.5°	885.1	884.5	888.8	905.0	918.7	928.5
14°	879.8	879.2	883.8	900.1	914.3	923.5
14.5°	874.3	874.2	878.7	894.9	910.0	918.7
15°	868.7	868.7	873.3	889.7	905.5	913.6
15.5°	862.7	863.0	868.0	884.1	900.6	908.5
16°	856.6	857.1	862.2	878.9	895.9	903.4
16.5°	850.2	851.0	856.1	873.3	891.0	898.1
17°	843.7	844.5	849.8	867.5	885.9	892.6
17.5°	836.4	837.6	843.1	861.7	880.6	887.3
18°	829.5	830.4	836.1	855.7	874.8	881.5
18.5°	821.8	823.0	828.9	849.6	868.6	875.7
19°	814.0	815.4	821.4	843.1	862.1	869.5
19.5°	806.1	807.4	813.8	836.4	855.4	863.2
20°	797.9	799.3	806.1	829.6	848.2	856.9
20.5°	789.2	791.1	798.0	822.2	841.0	850.3
21°	780.4	782.8	789.8	815.0	833.2	843.8

TEST NUMBER: P775768

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	754.3	757.1	764.9	790.3	808.1	822.7
23°	745.0	748.6	756.6	781.7	798.9	815.5
23.5°	735.1	739.7	747.7	772.9	789.7	807.8
24°	725.4	730.8	739.0	763.5	780.6	800.1
24.5°	715.4	721.4	729.7	754.5	771.2	792.0
25°	705.5	712.1	720.6	744.7	761.4	783.9
25.5°	695.1	702.5	710.8	734.9	751.4	775.4
26°	684.5	692.6	701.4	724.8	741.4	766.3
26.5°	673.6	682.3	691.3	714.8	731.2	757.2
27°	662.6	671.6	680.7	704.2	720.9	747.7
27.5°	651.2	660.6	669.7	693.3	710.5	737.9
28°	639.6	649.3	658.3	681.8	699.3	727.2
28.5°	627.6	637.3	646.7	670.5	688.4	716.9
29°	615.5	625.3	634.7	658.6	676.9	705.8
29.5°	603.0	612.6	621.9	647.2	665.4	694.3
30°	590.4	599.8	609.3	634.7	653.4	682.8
30.5°	577.8	586.3	596.3	622.6	641.6	671.0
31°	564.9	573.0	582.8	609.9	629.4	658.7
31.5°	551.7	559.0	568.6	597.2	617.1	645.9
32°	538.6	544.8	554.6	584.9	604.3	633.5
32.5°	525.5	530.3	540.6	571.8	591.8	620.7
33°	511.7	516.2	526.3	559.0	578.6	607.6
33.5°	498.2	501.7	511.8	545.5	566.0	594.0
34°	484.2	487.4	497.7	532.2	553.0	580.6
34.5°	470.6	472.4	483.2	518.6	539.7	566.3
35°	456.9	458.1	469.0	504.6	525.7	551.7
35.5°	443.0	443.8	455.1	490.8	512.0	537.0
36°	429.1	429.8	440.8	476.7	497.7	522.4
36.5°	414.6	416.2	427.0	462.6	483.4	507.2
37°	400.2	402.0	413.0	447.8	468.5	491.8
37.5°	385.8	388.1	398.9	433.1	453.6	476.1
38°	371.3	372.9	384.7	418.4	438.6	460.4
38.5°	356.9	359.1	370.5	403.1	423.3	444.6
39°	342.2	345.3	356.1	388.6	407.9	428.8
39.5°	327.9	331.6	341.7	372.3	392.4	413.9
40°	313.8	317.9	327.3	358.1	376.0	398.8
40.5°	299.8	303.8	312.9	343.7	360.7	384.1
41°	286.1	289.8	298.5	329.4	345.3	369.5
41.5°	272.3	276.5	284.2	315.0	330.1	354.9
42°	258.5	263.3	270.5	300.3	314.8	340.4
42.5°	245.3	250.2	257.2	285.7	299.5	325.8
43°	231.9	237.2	243.6	271.1	285.0	311.2
43.5°	219.0	224.8	230.4	256.5	270.5	296.7



TEST NUMBER: P775768

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	182.4	187.3	191.3	213.7	229.2	254.4
45.5°	171.2	175.3	178.4	200.3	216.3	240.8
46°	160.0	163.3	166.2	187.4	203.8	227.8
46.5°	149.7	152.2	154.2	174.8	191.7	214.6
47°	139.5	141.0	142.7	163.0	179.7	201.5
47.5°	129.9	130.1	131.5	151.5	167.6	188.5
48°	120.4	119.6	120.6	140.2	156.4	176.5
48.5°	111.4	110.0	110.6	129.8	145.2	164.3
49°	103.0	100.5	100.9	119.7	134.6	152.9
49.5°	95.4	91.9	92.1	110.6	124.1	141.6
50°	88.0	83.1	83.3	101.5	114.3	130.9
50.5°	80.4	75.6	75.6	92.7	104.5	120.1
51°	72.8	68.2	68.3	84.4	95.4	110.2
51.5°	66.1	61.9	61.8	77.1	86.7	100.5
52°	59.7	55.9	56.0	69.9	78.7	90.9
52.5°	53.7	50.5	50.5	63.1	70.9	81.7
53°	47.9	45.3	45.4	56.5	63.7	73.1
53.5°	42.5	40.7	40.7	50.7	56.8	64.9
54°	37.3	36.3	36.0	45.0	50.4	57.2
54.5°	32.6	32.2	31.9	39.6	44.1	50.2
55°	27.8	28.0	27.7	35.0	38.6	43.9
55.5°	23.5	23.9	23.6	30.5	33.8	38.0
56°	19.4	19.8	19.4	26.0	29.2	33.3
56.5°	16.0	16.1	15.8	21.4	24.5	28.7
57°	12.6	12.1	11.8	16.9	19.9	24.0
57.5°	9.1	8.2	7.8	12.9	15.2	19.3
58°	5.8	4.8	4.4	8.6	10.9	14.6
58.5°	2.3	3.9	3.5	5.1	7.0	10.4
59°	1.3	3.0	2.5	2.6	4.0	6.4
59.5°	0.9	2.3	1.7	2.1	3.2	3.5
60°	0.8	1.5	0.7	1.6	2.3	2.7
60.5°	0.7	0.6	0.6	1.2	1.5	2.1
61°	0.6	0.5	0.5	0.6	0.7	1.4
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: P775768

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**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: P775768

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-4000K

**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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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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Scaled Data Report





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

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21.5°	836.9	854.1	870.7	874.6	858.0	849.8	829.5	807.3	791.1	781.9	774.1
22°	829.8	847.7	865.0	868.3	851.7	842.9	821.6	799.9	782.8	773.8	764.7



44°	282.1	303.2	320.8	329.9	316.3	304.3	272.8	257.8	238.5	224.7	211.0
44.5°	268.0	288.8	305.9	313.8	302.6	290.0	259.2	243.8	225.8	212.1	199.2



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°	771.7	774.3	781.7	807.1	825.1	836.9
22°	763.0	765.7	773.4	798.6	816.8	829.8



44°	206.2	211.9	217.0	241.9	256.4	282.1
44.5°	194.2	199.6	204.2	227.4	242.7	268.0

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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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Scaled Data Report



(END OF REPORT)