

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: P775774

Luminaire Tested: HCDJBL510CSD-HCD6TRH-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775774
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-HCD6TRH-1000lm-5000K
Description: 6 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

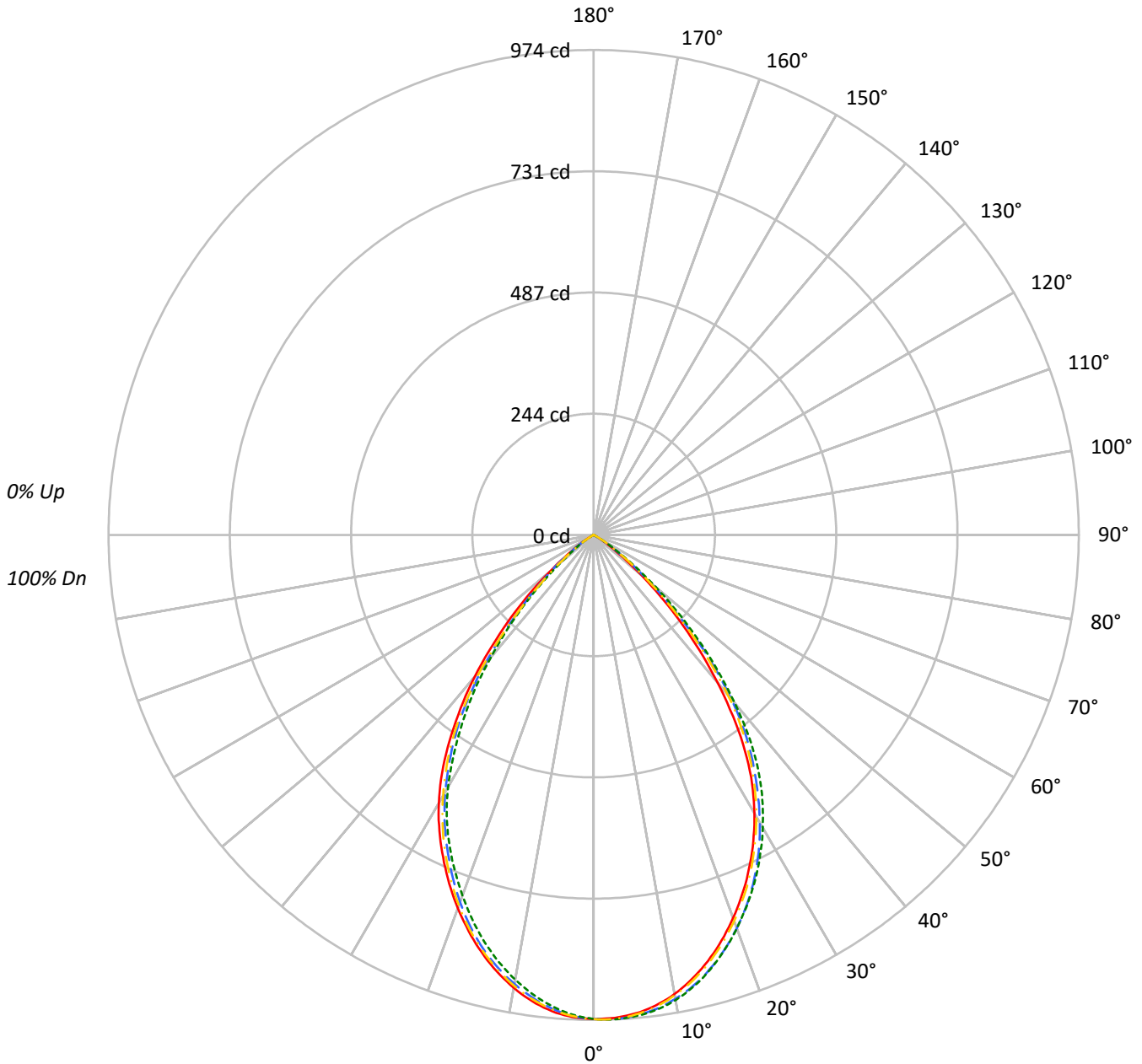
Lumens per Lamp: N/A
Luminaire Lumens: 1222.9 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	65	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	53307	53307	53307	53307
5°	53071	53395	52834	52300
10°	52114	52805	51419	50500
15°	50284	51306	49274	48042
20°	47762	49045	46525	44944
25°	44676	46351	43242	41458
30°	40861	42981	39360	37018
35°	35476	38548	33716	30664
40°	27659	31509	26578	23036
45°	18963	22871	18234	14808
50°	10447	13825	9987	7275
55°	3995	6069	4320	3097
60°	526	1557	1042	406
65°	65	130	91	65
70°	16	32	32	32
75°	21	21	21	21
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 22871 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	7.4
10°-20°	246.1	20.1
20°-30°	332.9	27.2
30°-40°	319.6	26.1
40°-50°	186.1	15.2
50°-60°	45.8	3.7
60°-70°	1.5	0.1
70°-80°	0.1	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°	669.8	54.8
0°-40°	989.4	80.9
0°-60°	1221.4	99.9
0°-90°	1222.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	964	970	960	950	964	91
15°	886	904	868	846	886	249
25°	739	766	715	685	739	338
35°	530	576	504	458	530	326
45°	245	295	235	191	245	189
55°	42	64	45	32	42	43
65°	0	1	1	0	0	1
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°	972.4	972.4	972.4	972.4	972.4	972.4	972.4	972.4	972.4	972.4	972.4
0.5°	972.2	972.3	973.1	973.7	972.8	973.2	973.4	973.0	972.0	971.6	971.7
1°	972.0	972.4	973.5	974.3	973.4	973.6	973.6	972.9	971.6	970.7	970.8
1.5°	971.7	972.4	973.6	974.6	973.7	973.9	973.5	972.5	971.2	969.9	969.7
2°	971.2	972.3	973.6	974.6	973.9	973.9	973.4	972.0	970.1	968.8	968.3
2.5°	971.2	971.9	973.3	974.4	973.7	973.6	972.9	971.3	969.2	967.4	966.6
3°	969.6	971.3	973.0	974.0	973.5	973.3	972.1	970.1	967.7	965.8	964.7
3.5°	968.6	970.5	972.3	973.5	973.0	972.4	971.2	968.9	966.3	964.0	962.8
4°	967.4	969.7	971.5	972.8	972.2	971.7	970.1	967.3	964.6	962.1	960.3
4.5°	965.9	968.6	970.4	971.8	971.4	970.6	968.6	965.6	962.6	959.6	957.8
5°	964.4	967.2	969.2	970.7	970.3	969.3	967.0	963.7	960.1	957.1	955.1
5.5°	963.1	965.6	968.0	969.3	969.1	968.0	965.1	961.5	957.4	954.3	952.0
6°	960.6	963.8	966.4	967.9	967.7	966.3	963.0	958.8	954.6	951.3	948.8
6.5°	958.5	962.0	964.6	966.3	966.0	964.3	960.9	955.9	951.5	948.1	945.2
7°	956.0	959.8	962.4	964.4	964.2	962.4	958.3	953.0	948.4	944.6	941.7
7.5°	953.3	957.3	960.2	962.2	962.1	960.2	955.6	949.6	944.6	940.8	937.7
8°	950.3	954.6	957.8	959.8	959.9	957.8	952.7	946.2	940.9	936.8	933.7
8.5°	947.2	951.8	955.2	957.2	957.4	955.1	949.5	942.6	936.9	932.8	929.4
9°	943.8	948.6	952.4	954.4	954.6	952.2	946.3	938.8	932.7	928.5	925.2
9.5°	940.0	945.4	949.2	951.4	951.8	949.2	942.6	934.6	928.5	923.9	920.5
10°	936.2	941.9	946.1	948.2	948.6	945.8	938.9	930.4	923.7	919.4	915.7
10.5°	932.0	938.0	942.6	944.8	945.0	942.3	934.9	925.9	919.0	914.6	910.8
11°	927.8	934.2	939.2	941.2	941.4	938.3	930.8	921.3	914.0	909.6	905.8
11.5°	923.3	930.0	935.1	937.3	937.5	934.4	926.5	916.5	908.7	904.4	900.6
12°	918.3	925.6	931.3	933.1	933.3	930.0	921.8	911.5	903.5	899.1	895.2
12.5°	913.4	921.1	926.8	929.0	929.0	925.5	917.0	906.4	898.0	893.6	889.7
13°	908.4	916.5	922.6	924.7	924.7	921.0	912.3	901.1	892.5	887.9	884.1
13.5°	902.9	911.4	917.9	919.8	919.6	915.8	907.0	895.6	886.5	882.2	878.2
14°	897.6	906.4	913.0	915.0	914.6	910.8	901.8	889.9	880.7	876.1	872.1
14.5°	891.9	900.9	907.9	910.0	909.1	905.3	896.3	884.0	874.6	869.7	866.0
15°	886.0	895.6	902.5	904.8	904.0	899.9	890.5	878.0	868.2	863.2	859.6
15.5°	879.9	889.8	897.1	899.5	898.3	894.2	884.5	871.8	861.7	856.9	853.0
16°	873.7	883.9	891.4	893.7	892.6	888.3	878.6	865.5	855.2	850.2	846.0
16.5°	867.4	877.9	885.5	887.9	886.6	882.2	872.4	859.0	848.5	843.2	839.0
17°	860.8	871.7	879.6	882.1	880.4	876.0	866.1	852.4	841.5	835.9	831.9
17.5°	854.0	865.4	873.4	876.1	874.2	869.6	859.5	845.4	834.5	828.7	824.3
18°	847.3	858.8	867.1	869.7	867.6	863.1	853.0	838.6	827.1	821.2	816.6
18.5°	840.4	852.1	860.5	863.3	861.0	856.5	846.0	831.3	819.8	813.5	809.1
19°	833.2	845.3	854.1	856.8	854.3	849.8	839.0	824.1	812.5	806.1	800.8
19.5°	826.0	838.3	847.2	850.1	847.6	842.7	831.9	816.6	805.2	798.0	792.6
20°	818.7	831.2	840.5	843.3	840.7	835.5	824.8	809.4	797.5	790.0	784.4
20.5°	811.2	823.8	833.5	835.9	833.4	828.4	817.4	801.7	789.8	781.9	776.2
21°	803.6	816.3	826.3	828.9	826.2	821.1	809.7	794.1	782.1	773.9	768.0



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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°	780.3	793.1	803.8	806.3	804.9	798.2	786.5	771.3	757.8	748.7	741.3
23°	772.3	785.0	795.9	798.5	797.3	790.1	778.8	763.1	749.2	740.0	732.3
23.5°	764.2	776.7	787.9	790.5	789.8	782.0	771.0	754.9	740.7	731.0	723.0
24°	755.8	768.4	779.5	782.3	782.2	773.9	762.7	746.6	732.1	722.2	713.9
24.5°	747.2	760.0	771.2	774.1	774.6	767.1	754.1	738.2	723.8	713.2	704.5
25°	738.6	751.5	762.7	765.7	766.3	758.6	745.3	729.8	714.9	704.3	695.4
25.5°	730.0	742.4	754.1	756.9	758.0	750.0	736.6	721.0	706.2	695.1	686.1
26°	721.3	733.8	745.1	748.4	749.8	741.6	727.7	712.5	697.5	686.1	676.8
26.5°	712.2	725.0	735.9	739.6	741.5	732.6	718.6	703.6	688.6	676.9	667.3
27°	703.2	715.6	726.9	730.6	733.1	724.0	709.6	694.9	679.3	667.7	657.9
27.5°	693.8	706.1	717.4	721.5	724.2	714.9	700.6	686.0	670.5	658.3	648.2
28°	684.6	696.6	707.6	712.2	715.4	706.0	691.4	676.8	661.2	648.4	638.2
28.5°	675.1	687.0	697.8	702.8	706.6	696.8	682.1	667.7	652.0	638.4	627.9
29°	665.4	677.2	687.8	693.2	697.7	687.7	672.5	658.2	642.3	628.5	617.5
29.5°	655.5	667.0	677.4	683.5	688.3	678.5	662.9	648.3	632.1	618.2	606.5
30°	645.5	656.6	667.1	673.6	679.0	669.1	653.1	638.4	621.8	607.7	595.7
30.5°	635.2	646.2	656.6	663.1	669.5	659.4	643.2	628.1	611.6	596.7	584.6
31°	624.8	635.5	645.6	653.1	660.3	649.7	633.0	617.7	600.6	585.8	573.3
31.5°	614.0	624.7	635.0	642.6	650.2	639.9	622.6	607.1	589.4	574.7	561.9
32°	602.8	613.4	623.8	631.8	640.3	629.9	612.3	596.2	577.9	563.3	550.2
32.5°	591.8	602.6	612.7	620.8	630.3	619.6	601.6	585.1	566.3	551.7	538.7
33°	580.3	591.2	601.8	610.1	620.1	609.1	590.9	573.5	554.3	539.6	527.1
33.5°	568.5	579.8	591.0	599.1	609.3	598.6	580.0	561.8	542.1	527.6	515.5
34°	556.0	568.1	579.6	588.0	598.8	587.7	568.9	550.0	529.7	515.6	503.7
34.5°	543.3	556.6	568.2	576.8	587.3	576.3	557.9	537.8	516.6	502.8	491.5
35°	530.1	544.5	556.6	565.1	576.0	565.0	546.7	525.3	503.8	490.1	479.5
35.5°	516.9	532.5	545.5	553.5	564.0	553.6	535.4	513.0	491.1	477.4	467.1
36°	502.7	520.3	533.3	541.9	552.1	542.0	523.7	500.5	478.3	464.5	454.4
36.5°	488.6	507.4	521.9	530.2	539.3	529.9	511.7	487.8	465.3	451.4	441.1
37°	474.0	494.3	509.8	518.0	526.3	517.4	499.3	475.2	451.9	438.2	427.3
37.5°	459.5	480.7	497.3	505.4	512.9	504.7	486.9	462.2	439.2	424.7	413.7
38°	444.4	466.7	484.3	491.9	499.0	491.2	473.9	449.3	425.9	411.0	399.5
38.5°	430.2	452.8	471.3	479.2	484.4	477.7	460.6	436.3	412.7	397.1	385.3
39°	415.2	438.3	457.5	465.3	470.0	463.7	446.9	423.2	399.1	383.2	371.1
39.5°	400.8	423.8	443.6	451.5	455.2	449.2	432.9	409.7	385.7	369.1	356.4
40°	386.5	408.4	429.0	437.1	440.3	434.0	418.6	395.8	371.4	354.6	341.7
40.5°	372.2	393.5	414.9	422.4	425.6	418.8	404.4	382.0	357.5	340.3	326.7
41°	357.7	379.4	400.5	407.3	410.9	403.2	389.0	368.0	343.2	326.1	311.7
41.5°	343.4	364.8	385.8	392.4	396.7	387.8	374.0	354.3	328.9	312.6	297.0
42°	329.0	350.1	370.7	383.6	382.2	372.4	358.7	339.7	314.5	298.4	282.5
42.5°	314.6	335.5	355.6	367.4	368.2	357.0	343.7	325.3	301.2	284.7	268.6
43°	300.0	320.8	340.4	350.9	354.1	341.9	328.8	310.6	287.4	271.0	255.2
43.5°	285.7	306.6	325.4	334.4	339.0	327.1	313.9	296.3	274.6	257.6	241.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	244.6	264.1	279.9	288.6	295.0	283.2	269.5	253.6	235.2	218.4	204.5
45.5°	231.6	249.9	265.0	274.4	280.5	268.5	255.0	240.2	222.3	205.9	192.8
46°	218.2	236.2	250.1	260.3	266.6	254.4	241.0	226.5	209.8	193.5	181.4
46.5°	205.0	222.5	235.4	246.2	253.0	240.6	226.8	213.2	197.0	182.1	170.4
47°	192.1	209.0	221.4	232.0	239.5	227.0	213.2	199.6	184.6	170.3	159.7
47.5°	179.5	195.7	207.8	218.3	226.1	213.8	199.8	186.8	172.7	159.4	149.5
48°	167.2	182.8	194.5	204.7	212.8	201.3	186.9	173.9	161.1	148.8	139.8
48.5°	155.5	170.3	181.4	191.6	199.8	189.3	174.6	161.7	149.9	138.9	130.7
49°	144.0	158.1	169.0	178.7	186.9	177.2	162.4	149.6	138.6	129.0	121.8
49.5°	132.9	146.1	156.9	166.3	174.2	165.6	151.2	138.2	127.7	119.6	113.1
50°	122.5	134.3	145.2	153.7	162.1	154.0	140.2	127.4	117.1	110.7	105.1
50.5°	112.1	122.8	133.7	141.8	150.3	143.0	129.7	117.0	107.2	103.0	97.7
51°	102.4	112.1	123.0	130.2	138.8	132.3	119.8	107.3	98.6	95.3	90.4
51.5°	92.8	102.0	112.5	119.4	128.0	122.0	110.3	99.1	90.1	87.5	83.1
52°	83.9	92.5	102.7	109.0	117.6	112.0	102.4	90.9	81.4	79.8	75.8
52.5°	75.4	83.3	93.2	98.9	107.4	103.5	94.4	82.6	72.9	72.2	69.0
53°	67.5	75.0	84.3	89.4	98.4	94.9	86.4	74.4	66.2	65.5	62.9
53.5°	60.0	67.4	75.7	80.6	89.3	86.3	78.4	67.5	60.1	59.6	56.9
54°	53.4	60.2	67.9	72.5	80.1	77.7	70.4	61.2	54.7	53.9	51.5
54.5°	47.3	53.5	60.2	64.8	71.2	69.2	63.9	55.4	49.8	48.5	45.9
55°	41.8	47.5	53.4	57.9	63.5	62.6	57.8	50.3	45.2	43.6	40.9
55.5°	36.5	41.7	46.9	51.4	56.6	55.7	51.9	45.2	40.7	38.7	36.0
56°	32.3	36.3	41.1	45.3	50.2	49.8	46.3	40.6	36.5	34.2	31.5
56.5°	28.0	32.1	36.1	39.5	44.3	44.0	40.9	36.2	32.4	29.9	27.3
57°	23.9	27.9	31.8	35.0	38.9	38.7	36.0	32.0	28.5	26.0	23.4
57.5°	19.7	23.7	27.3	30.5	33.7	33.6	31.3	27.9	24.8	22.4	19.8
58°	15.8	19.4	22.9	25.9	29.0	28.9	27.1	24.2	21.3	18.7	15.9
58.5°	11.9	15.2	18.5	21.4	24.7	24.6	23.1	20.6	17.6	15.9	13.5
59°	8.7	11.5	14.4	16.9	20.6	20.8	19.2	16.6	14.9	13.1	11.1
59.5°	6.4	8.4	10.6	12.7	17.4	17.9	16.2	14.1	12.3	10.2	8.7
60°	4.8	6.1	7.7	9.3	14.2	15.0	13.3	11.5	9.5	7.5	6.4
60.5°	3.5	4.6	5.5	6.6	11.0	12.2	10.3	9.0	6.8	4.7	3.9
61°	3.0	3.9	4.2	4.9	7.8	9.3	7.4	6.4	4.3	3.6	3.1
61.5°	2.5	3.3	3.5	3.6	4.6	6.4	4.5	3.8	3.2	2.9	2.5
62°	1.9	2.7	2.9	3.1	3.4	3.5	3.4	2.9	2.5	2.2	2.0
62.5°	1.4	2.0	2.2	2.6	2.7	2.7	2.6	2.3	1.9	1.8	1.6
63°	1.2	1.5	1.7	2.0	2.1	2.1	2.0	1.8	1.6	1.5	1.4
63.5°	1.0	1.2	1.4	1.5	1.7	1.7	1.6	1.5	1.3	1.3	1.2
64°	0.7	1.0	1.2	1.3	1.4	1.4	1.4	1.3	1.1	1.1	1.0
64.5°	0.6	0.9	1.0	1.1	1.2	1.2	1.1	1.1	0.9	0.9	0.9
65°	0.5	0.7	0.9	0.9	1.0	1.0	1.0	0.9	0.7	0.7	0.7
65.5°	0.5	0.6	0.6	0.7	0.9	0.7	0.7	0.7	0.6	0.6	0.6
66°	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5



TEST NUMBER: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
68°	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
68.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
77°	0.0	0.0	0.0	0.1	0.1	0.1	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: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-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: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	972.4	972.4	972.4	972.4	972.4	972.4
0.5°	972.1	970.9	971.6	972.1	972.4	972.2
1°	971.1	969.7	970.4	971.3	971.8	972.0
1.5°	969.7	968.2	969.1	970.1	971.3	971.7
2°	968.0	966.4	967.4	968.8	970.1	971.2
2.5°	966.2	964.3	965.4	967.3	969.0	971.2
3°	964.0	962.0	963.4	965.4	968.0	969.6
3.5°	961.7	959.4	960.9	963.6	966.5	968.6
4°	959.2	956.8	958.4	961.5	965.0	967.4
4.5°	956.5	953.7	955.6	959.1	963.1	965.9
5°	953.4	950.4	952.5	956.5	961.0	964.4
5.5°	950.1	947.1	949.2	953.7	958.7	963.1
6°	946.5	943.4	945.9	950.8	956.3	960.6
6.5°	942.8	939.4	942.2	947.5	953.7	958.5
7°	939.0	935.6	938.3	944.1	950.9	956.0
7.5°	934.8	931.2	934.3	940.7	947.8	953.3
8°	930.7	926.6	930.1	936.8	944.5	950.3
8.5°	926.2	921.9	925.6	932.8	940.8	947.2
9°	921.7	917.2	921.0	928.6	937.1	943.8
9.5°	916.7	912.2	916.3	924.2	933.0	940.0
10°	911.8	907.2	911.3	919.7	928.8	936.2
10.5°	906.6	901.7	906.3	914.9	924.5	932.0
11°	901.2	896.1	900.9	909.8	919.9	927.8
11.5°	895.8	890.6	895.4	904.5	915.1	923.3
12°	890.1	884.6	889.7	899.2	910.0	918.3
12.5°	884.3	878.8	884.0	893.6	904.8	913.4
13°	878.2	872.6	877.9	887.9	899.5	908.4
13.5°	872.0	866.3	871.6	882.0	893.9	902.9
14°	865.5	859.9	865.2	876.1	888.2	897.6
14.5°	858.9	853.3	858.7	869.9	882.3	891.9
15°	852.1	846.5	852.0	863.5	876.5	886.0
15.5°	845.5	839.3	845.1	856.9	870.0	879.9
16°	838.4	832.4	838.1	850.4	863.7	873.7
16.5°	831.2	824.9	830.9	843.8	857.3	867.4
17°	823.8	817.7	823.7	836.9	850.7	860.8
17.5°	816.5	810.0	816.2	829.5	843.6	854.0
18°	809.1	802.2	808.7	822.3	836.5	847.3
18.5°	801.3	794.3	801.2	814.8	829.4	840.4
19°	793.6	786.7	793.2	807.1	821.9	833.2
19.5°	785.8	778.7	785.5	799.6	814.5	826.0
20°	778.0	770.4	777.7	791.6	806.8	818.7
20.5°	770.4	762.3	769.7	783.5	798.8	811.2
21°	762.0	754.1	761.6	775.4	790.8	803.6

TEST NUMBER: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	736.6	729.1	736.6	749.7	765.8	780.3
23°	727.8	720.5	727.8	740.9	757.1	772.3
23.5°	719.2	712.0	719.5	732.2	748.4	764.2
24°	710.3	703.2	710.6	723.3	739.5	755.8
24.5°	701.3	694.5	701.9	714.1	730.7	747.2
25°	692.3	685.4	692.9	704.9	721.8	738.6
25.5°	683.2	676.5	683.9	695.8	712.6	730.0
26°	674.2	667.4	674.4	686.1	703.5	721.3
26.5°	664.8	658.0	664.8	676.8	694.3	712.2
27°	655.3	648.4	655.1	666.7	684.9	703.2
27.5°	645.5	638.8	645.1	656.7	675.3	693.8
28°	635.4	628.3	634.6	646.6	665.5	684.6
28.5°	625.0	617.8	624.6	636.4	655.6	675.1
29°	614.5	607.1	613.8	626.1	645.6	665.4
29.5°	603.9	596.2	602.8	615.3	635.3	655.5
30°	592.8	584.8	591.6	604.6	625.1	645.5
30.5°	581.5	572.7	580.3	593.7	614.3	635.2
31°	570.0	560.5	568.4	582.7	603.6	624.8
31.5°	558.3	548.1	556.5	571.8	592.7	614.0
32°	546.4	535.5	544.0	560.1	581.7	602.8
32.5°	534.1	522.9	531.6	548.9	570.5	591.8
33°	521.5	509.8	518.9	537.4	558.8	580.3
33.5°	508.7	496.9	506.3	525.8	547.2	568.5
34°	495.8	484.0	493.7	513.7	535.1	556.0
34.5°	482.6	471.0	480.8	501.0	523.1	543.3
35°	469.6	458.2	467.7	488.4	510.3	530.1
35.5°	456.5	445.3	455.1	475.3	497.6	516.9
36°	443.1	432.6	442.3	462.1	483.9	502.7
36.5°	429.7	419.7	429.4	448.6	469.9	488.6
37°	416.2	406.6	416.3	433.7	455.5	474.0
37.5°	402.6	393.2	403.0	419.7	441.5	459.5
38°	388.8	380.0	389.2	404.9	426.1	444.4
38.5°	374.6	365.5	374.9	390.6	411.0	430.2
39°	360.9	351.0	360.7	382.4	395.3	415.2
39.5°	346.8	336.4	346.4	365.8	377.6	400.8
40°	332.6	321.9	332.0	349.1	362.9	386.5
40.5°	318.6	307.9	317.7	332.4	348.2	372.2
41°	304.6	294.5	302.8	315.8	333.6	357.7
41.5°	291.3	281.2	288.4	301.1	318.9	343.4
42°	277.2	268.3	274.3	286.3	304.1	329.0
42.5°	263.7	255.2	260.8	271.7	289.6	314.6
43°	250.4	242.3	247.4	257.2	274.8	300.0
43.5°	236.8	229.3	233.6	243.0	260.5	285.7



TEST NUMBER: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	199.2	191.0	194.1	202.0	220.1	244.6
45.5°	187.2	179.1	181.1	189.2	207.6	231.6
46°	175.4	167.3	168.7	176.9	195.3	218.2
46.5°	164.6	155.5	156.6	165.1	183.5	205.0
47°	153.3	144.3	145.1	153.6	171.6	192.1
47.5°	142.9	133.3	134.1	142.7	160.5	179.5
48°	133.0	122.8	123.4	132.3	149.2	167.2
48.5°	123.4	112.4	113.5	122.4	138.4	155.5
49°	114.4	103.0	104.0	113.0	127.8	144.0
49.5°	105.7	93.8	95.1	103.9	117.9	132.9
50°	98.1	85.3	87.0	95.5	108.0	122.5
50.5°	90.5	77.6	79.2	87.4	98.8	112.1
51°	82.8	70.7	72.3	79.9	90.2	102.4
51.5°	75.2	64.4	65.8	72.7	82.0	92.8
52°	68.7	58.7	59.9	66.2	74.3	83.9
52.5°	62.5	53.6	54.4	60.0	67.0	75.4
53°	56.5	48.7	49.5	54.0	60.1	67.5
53.5°	51.2	44.2	44.7	48.4	53.7	60.0
54°	46.0	40.0	40.2	43.3	47.9	53.4
54.5°	41.1	36.1	36.3	38.4	42.4	47.3
55°	36.7	32.4	32.5	34.3	37.0	41.8
55.5°	32.2	28.7	28.8	30.3	32.8	36.5
56°	28.1	24.9	24.9	26.2	28.7	32.3
56.5°	24.4	21.2	21.1	22.3	24.5	28.0
57°	20.9	17.4	17.3	18.2	20.4	23.9
57.5°	17.1	13.5	13.5	14.3	16.4	19.7
58°	14.5	10.3	10.2	10.9	12.6	15.8
58.5°	11.9	7.8	7.6	8.0	9.4	11.9
59°	9.4	5.8	5.6	6.0	6.9	8.7
59.5°	6.8	4.4	4.3	4.5	5.1	6.4
60°	4.3	3.7	3.6	3.8	3.8	4.8
60.5°	3.3	3.0	3.0	3.2	3.3	3.5
61°	2.7	2.3	2.2	2.7	2.7	3.0
61.5°	2.1	1.7	1.6	2.0	2.1	2.5
62°	1.7	1.4	1.4	1.4	1.6	1.9
62.5°	1.4	1.2	1.1	1.2	1.3	1.4
63°	1.2	1.0	1.0	1.0	1.1	1.2
63.5°	1.0	0.9	0.7	0.7	0.9	1.0
64°	0.9	0.7	0.6	0.6	0.7	0.7
64.5°	0.7	0.6	0.5	0.5	0.6	0.6
65°	0.6	0.5	0.4	0.5	0.5	0.5
65.5°	0.5	0.4	0.4	0.4	0.4	0.5
66°	0.4	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.2	0.2	0.3	0.3
68°	0.3	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.1	0.1	0.1	0.1
70.5°	0.2	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	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.0	0.0	0.1
75.5°	0.1	0.0	0.0	0.0	0.0	0.0
76°	0.1	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: P775774

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-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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Cooper Lighting Solutions Photometric Lab
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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°	795.8	808.6	819.1	821.5	819.2	813.6	802.0	786.6	774.4	765.9	759.2
22°	788.2	801.0	811.4	814.0	811.9	806.3	794.2	778.9	766.0	757.4	750.4



44°	271.6	292.3	310.3	317.8	324.2	312.5	298.7	281.6	260.9	244.1	229.1
44.5°	257.9	278.3	295.0	303.2	309.5	297.9	284.4	267.5	248.4	231.4	217.0



66.5°	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
67°	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4



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°	753.5	745.8	753.3	766.8	782.5	795.8
22°	745.1	737.4	745.0	758.4	774.2	788.2



44°	224.0	216.1	220.2	229.0	246.8	271.6
44.5°	211.7	203.4	207.2	215.4	233.4	257.9

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66.5°	0.4	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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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)