

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: P775770

Luminaire Tested: HCDJBS510CSD-HCD6TRH-1000lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775770  
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-2700K  
Description: 6 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

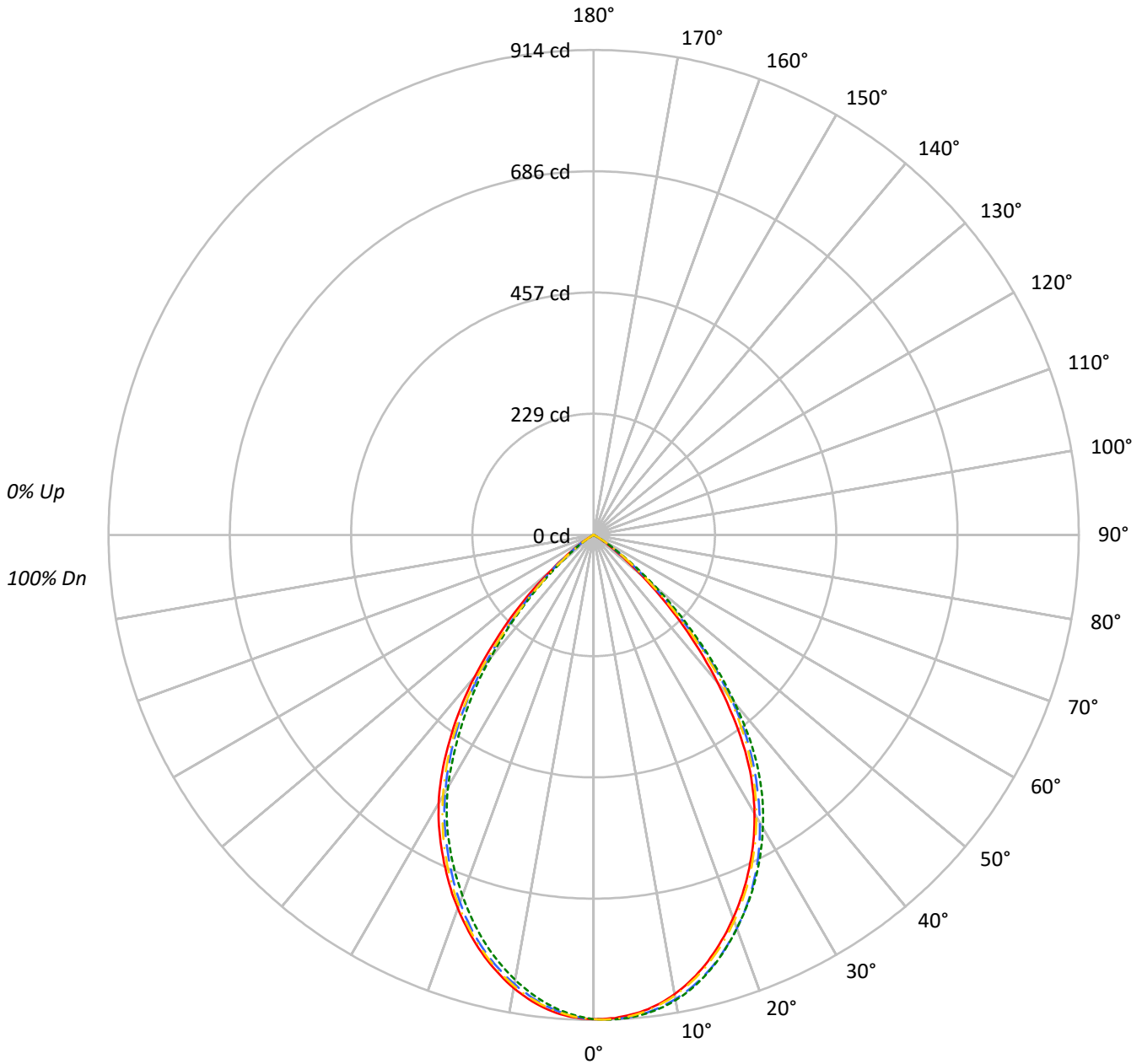
Lumens per Lamp: N/A  
Luminaire Lumens: 1148.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: P775770  
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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	64	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°	50040	50040	50040	50040
5°	49818	50121	49593	49092
10°	48919	49565	48268	47405
15°	47202	48161	46255	45097
20°	44839	46041	43678	42190
25°	41936	43509	40593	38918
30°	38354	40348	36949	34752
35°	33301	36185	31648	28784
40°	25963	29577	24954	21619
45°	17800	21467	17118	13901
50°	9808	12980	9381	6823
55°	3747	5696	4052	2906
60°	493	1458	976	384
65°	65	117	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: 21467 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	7.4
10°-20°	231.0	20.1
20°-30°	312.5	27.2
30°-40°	300.0	26.1
40°-50°	174.7	15.2
50°-60°	43.0	3.7
60°-70°	1.4	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°	628.8	54.8
0°-40°	928.8	80.9
0°-60°	1146.5	99.9
0°-90°	1148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	913	913	913	913	913	
5°	905	911	901	892	905	86
15°	832	849	815	795	832	233
25°	693	719	671	643	693	318
35°	498	541	473	430	498	306
45°	230	277	221	179	230	177
55°	39	60	42	30	39	40
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°	912.8	912.8	912.8	912.8	912.8	912.8	912.8	912.8	912.8	912.8	912.8
0.5°	912.6	912.7	913.4	914.0	913.1	913.5	913.7	913.3	912.4	912.0	912.1
1°	912.4	912.8	913.8	914.5	913.7	913.9	913.9	913.2	912.0	911.2	911.3
1.5°	912.1	912.8	913.9	914.8	914.0	914.2	913.8	912.9	911.6	910.4	910.2
2°	911.6	912.7	913.9	914.8	914.2	914.2	913.7	912.4	910.6	909.4	908.9
2.5°	911.6	912.3	913.6	914.6	914.0	913.9	913.2	911.7	909.8	908.1	907.3
3°	910.1	911.7	913.3	914.3	913.8	913.6	912.5	910.6	908.4	906.6	905.5
3.5°	909.2	911.0	912.7	913.8	913.3	912.8	911.6	909.5	907.0	904.9	903.8
4°	908.1	910.2	911.9	913.1	912.6	912.1	910.6	908.0	905.4	903.1	901.4
4.5°	906.7	909.2	910.9	912.2	911.8	911.1	909.2	906.4	903.6	900.8	899.1
5°	905.3	907.9	909.8	911.2	910.8	909.9	907.7	904.6	901.2	898.4	896.5
5.5°	904.0	906.4	908.6	909.9	909.7	908.6	905.9	902.5	898.7	895.8	893.6
6°	901.7	904.7	907.1	908.5	908.4	907.0	903.9	900.0	896.1	893.0	890.6
6.5°	899.7	903.0	905.4	907.0	906.8	905.2	902.0	897.3	893.2	890.0	887.2
7°	897.4	900.9	903.4	905.3	905.1	903.4	899.5	894.6	890.2	886.7	884.0
7.5°	894.8	898.6	901.3	903.2	903.1	901.3	897.0	891.4	886.7	883.1	880.2
8°	892.0	896.1	899.1	900.9	901.0	899.1	894.3	888.2	883.2	879.4	876.5
8.5°	889.1	893.4	896.6	898.5	898.7	896.5	891.3	884.8	879.5	875.6	872.4
9°	885.9	890.4	894.0	895.9	896.1	893.8	888.3	881.2	875.5	871.6	868.5
9.5°	882.4	887.4	891.0	893.1	893.4	891.0	884.8	877.3	871.6	867.3	864.1
10°	878.8	884.1	888.1	890.1	890.4	887.8	881.3	873.4	867.1	863.0	859.6
10.5°	874.9	880.5	884.8	886.9	887.1	884.5	877.6	869.1	862.7	858.5	855.0
11°	870.9	876.9	881.6	883.5	883.7	880.8	873.7	864.8	858.0	853.8	850.3
11.5°	866.7	873.0	877.8	879.8	880.0	877.1	869.7	860.3	853.0	849.0	845.4
12°	862.0	868.9	874.2	875.9	876.1	873.0	865.3	855.6	848.1	844.0	840.3
12.5°	857.4	864.6	870.0	872.0	872.0	868.8	860.8	850.8	843.0	838.8	835.2
13°	852.7	860.3	866.0	868.0	868.0	864.5	856.4	845.9	837.8	833.5	829.9
13.5°	847.6	855.5	861.6	863.4	863.2	859.7	851.4	840.7	832.2	828.1	824.4
14°	842.6	850.8	857.0	858.9	858.5	855.0	846.5	835.4	826.7	822.4	818.7
14.5°	837.2	845.7	852.2	854.2	853.4	849.8	841.4	829.8	821.0	816.4	812.9
15°	831.7	840.7	847.2	849.3	848.6	844.7	835.9	824.2	815.0	810.3	806.9
15.5°	826.0	835.3	842.1	844.4	843.2	839.4	830.3	818.4	808.9	804.4	800.7
16°	820.2	829.7	836.8	838.9	837.9	833.9	824.8	812.5	802.8	798.1	794.2
16.5°	814.2	824.1	831.2	833.5	832.3	828.1	818.9	806.4	796.5	791.5	787.6
17°	808.1	818.3	825.7	828.0	826.4	822.3	813.0	800.2	789.9	784.7	780.9
17.5°	801.7	812.4	819.9	822.4	820.6	816.3	806.8	793.6	783.4	777.9	773.8
18°	795.4	806.2	814.0	816.4	814.4	810.2	800.7	787.2	776.4	770.9	766.6
18.5°	788.9	799.9	807.8	810.4	808.2	804.0	794.2	780.4	769.6	763.7	759.5
19°	782.2	793.5	801.8	804.3	802.0	797.7	787.6	773.6	762.7	756.7	751.8
19.5°	775.4	786.9	795.3	798.0	795.7	791.1	780.9	766.6	755.9	749.1	744.1
20°	768.6	780.3	789.0	791.6	789.2	784.3	774.3	759.8	748.7	741.6	736.4
20.5°	761.5	773.3	782.4	784.7	782.3	777.7	767.3	752.6	741.4	734.0	728.7
21°	754.4	766.3	775.7	778.1	775.6	770.8	760.1	745.5	734.2	726.5	721.0



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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°	732.5	744.5	754.6	756.9	755.6	749.3	738.3	724.1	711.3	702.8	695.8
23°	725.0	736.9	747.2	749.6	748.5	741.7	731.1	716.3	703.2	694.6	687.4
23.5°	717.3	729.1	739.7	742.1	741.4	734.1	723.8	708.6	695.3	686.2	678.7
24°	709.4	721.4	731.8	734.4	734.3	726.5	715.9	700.8	687.2	677.9	670.1
24.5°	701.4	713.4	724.0	726.7	727.2	720.0	707.8	692.9	679.4	669.5	661.3
25°	693.3	705.4	715.9	718.7	719.3	712.1	699.6	685.0	671.1	661.1	652.8
25.5°	685.2	696.9	707.8	710.5	711.5	704.0	691.4	676.8	662.9	652.5	644.0
26°	677.1	688.8	699.4	702.5	703.8	696.1	683.1	668.8	654.7	644.0	635.3
26.5°	668.5	680.5	690.8	694.2	696.0	687.7	674.5	660.5	646.4	635.4	626.4
27°	660.1	671.7	682.3	685.8	688.1	679.6	666.1	652.3	637.7	626.8	617.6
27.5°	651.3	662.8	673.4	677.3	679.8	671.1	657.6	643.9	629.4	618.0	608.5
28°	642.6	653.9	664.2	668.5	671.5	662.7	649.0	635.3	620.7	608.7	599.1
28.5°	633.7	644.9	655.0	659.7	663.3	654.1	640.3	626.8	612.0	599.3	589.4
29°	624.6	635.7	645.6	650.7	654.9	645.5	631.3	617.9	602.9	590.0	579.7
29.5°	615.3	626.1	635.9	641.6	646.1	636.9	622.3	608.6	593.4	580.3	569.4
30°	605.9	616.4	626.2	632.3	637.4	628.1	613.1	599.3	583.7	570.5	559.2
30.5°	596.3	606.6	616.4	622.5	628.5	619.0	603.8	589.6	574.1	560.2	548.8
31°	586.5	596.6	606.0	613.1	619.8	609.9	594.2	579.9	563.8	549.9	538.2
31.5°	576.4	586.4	596.1	603.2	610.4	600.7	584.5	569.9	553.3	539.5	527.5
32°	565.9	575.8	585.6	593.1	601.1	591.3	574.8	559.7	542.5	528.8	516.5
32.5°	555.6	565.7	575.2	582.8	591.7	581.6	564.8	549.3	531.6	517.9	505.6
33°	544.8	555.0	564.9	572.7	582.1	571.8	554.7	538.4	520.4	506.5	494.8
33.5°	533.7	544.3	554.8	562.4	572.0	561.9	544.5	527.4	508.8	495.2	483.9
34°	522.0	533.3	544.1	552.0	562.1	551.7	534.1	516.3	497.2	484.0	472.8
34.5°	510.0	522.5	533.4	541.5	551.3	541.0	523.8	504.8	484.9	472.0	461.4
35°	497.6	511.1	522.5	530.5	540.7	530.4	513.1	493.1	472.9	460.0	450.1
35.5°	485.2	499.8	512.0	519.6	529.5	519.7	502.5	481.5	461.0	448.1	438.5
36°	471.9	488.4	500.6	508.6	518.3	508.7	491.6	469.8	449.0	436.0	426.5
36.5°	458.6	476.3	489.9	497.7	506.2	497.4	480.3	457.9	436.8	423.7	414.1
37°	444.9	464.0	478.5	486.2	494.0	485.7	468.7	446.1	424.2	411.3	401.1
37.5°	431.3	451.2	466.8	474.4	481.4	473.7	457.0	433.9	412.3	398.7	388.4
38°	417.2	438.1	454.6	461.7	468.4	461.1	444.8	421.8	399.8	385.8	375.0
38.5°	403.8	425.0	442.4	449.8	454.7	448.4	432.4	409.6	387.4	372.8	361.7
39°	389.8	411.4	429.5	436.8	441.2	435.3	419.5	397.3	374.7	359.7	348.4
39.5°	376.3	397.8	416.4	423.8	427.3	421.7	406.4	384.6	362.1	346.5	334.6
40°	362.8	383.4	402.7	410.3	413.3	407.4	393.0	371.6	348.7	332.9	320.8
40.5°	349.4	369.4	389.5	396.5	399.5	393.1	379.6	358.6	335.6	319.5	306.6
41°	335.8	356.2	376.0	382.4	385.7	378.5	365.2	345.5	322.2	306.1	292.6
41.5°	322.4	342.5	362.2	368.4	372.4	364.1	351.1	332.6	308.8	293.4	278.8
42°	308.9	328.7	348.0	360.1	358.8	349.6	336.8	318.9	295.2	280.1	265.2
42.5°	295.3	315.0	333.8	344.9	345.7	335.2	322.7	305.3	282.7	267.2	252.1
43°	281.6	301.1	319.6	329.4	332.4	321.0	308.6	291.5	269.8	254.4	239.5
43.5°	268.2	287.8	305.4	314.0	318.3	307.0	294.6	278.1	257.7	241.8	227.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	229.6	247.9	262.7	270.9	276.9	265.8	253.0	238.0	220.8	205.0	192.0
45.5°	217.4	234.6	248.7	257.6	263.3	252.0	239.4	225.5	208.7	193.3	181.0
46°	204.8	221.7	234.8	244.3	250.2	238.8	226.2	212.6	196.9	181.7	170.3
46.5°	192.4	208.9	221.0	231.1	237.5	225.8	212.9	200.1	184.9	171.0	160.0
47°	180.3	196.2	207.8	217.8	224.8	213.1	200.1	187.4	173.3	159.9	149.9
47.5°	168.5	183.7	195.1	204.9	212.2	200.7	187.6	175.4	162.1	149.7	140.4
48°	157.0	171.6	182.6	192.2	199.8	189.0	175.5	163.3	151.3	139.7	131.3
48.5°	146.0	159.9	170.3	179.9	187.6	177.7	163.9	151.8	140.7	130.4	122.7
49°	135.2	148.4	158.7	167.8	175.5	166.4	152.5	140.5	130.1	121.1	114.4
49.5°	124.8	137.2	147.3	156.1	163.5	155.5	142.0	129.8	119.9	112.3	106.2
50°	115.0	126.1	136.3	144.3	152.2	144.6	131.6	119.6	110.0	104.0	98.6
50.5°	105.3	115.3	125.5	133.1	141.1	134.3	121.8	109.9	100.6	96.6	91.7
51°	96.1	105.3	115.5	122.3	130.3	124.2	112.5	100.7	92.5	89.4	84.8
51.5°	87.1	95.7	105.7	112.1	120.2	114.6	103.6	93.0	84.5	82.1	78.0
52°	78.7	86.8	96.4	102.3	110.4	105.2	96.1	85.3	76.4	74.9	71.1
52.5°	70.7	78.2	87.4	92.8	100.8	97.1	88.6	77.5	68.4	67.7	64.7
53°	63.3	70.4	79.1	83.9	92.3	89.0	81.1	69.8	62.1	61.5	59.0
53.5°	56.3	63.2	71.0	75.6	83.8	81.0	73.6	63.3	56.4	55.9	53.4
54°	50.1	56.5	63.7	68.0	75.2	72.9	66.1	57.4	51.3	50.6	48.3
54.5°	44.4	50.2	56.5	60.8	66.8	64.9	60.0	52.0	46.7	45.5	43.1
55°	39.2	44.6	50.1	54.3	59.6	58.7	54.2	47.2	42.4	40.9	38.4
55.5°	34.2	39.1	44.0	48.2	53.1	52.3	48.7	42.4	38.2	36.3	33.8
56°	30.3	34.1	38.6	42.5	47.1	46.7	43.4	38.1	34.2	32.1	29.6
56.5°	26.3	30.1	33.9	37.1	41.6	41.3	38.4	34.0	30.4	28.1	25.6
57°	22.4	26.2	29.8	32.8	36.5	36.3	33.8	30.0	26.7	24.4	22.0
57.5°	18.5	22.2	25.6	28.6	31.6	31.5	29.4	26.2	23.3	21.0	18.6
58°	14.8	18.2	21.5	24.3	27.2	27.1	25.4	22.7	20.0	17.5	14.9
58.5°	11.2	14.3	17.4	20.1	23.2	23.1	21.7	19.3	16.5	14.9	12.7
59°	8.2	10.8	13.5	15.9	19.3	19.5	18.0	15.6	14.0	12.3	10.4
59.5°	6.0	7.9	9.9	11.9	16.3	16.8	15.2	13.2	11.5	9.6	8.2
60°	4.5	5.7	7.2	8.7	13.3	14.1	12.5	10.8	8.9	7.0	6.0
60.5°	3.3	4.3	5.2	6.2	10.3	11.4	9.7	8.4	6.4	4.4	3.7
61°	2.8	3.7	3.9	4.6	7.3	8.7	6.9	6.0	4.0	3.4	2.9
61.5°	2.3	3.1	3.3	3.4	4.3	6.0	4.2	3.6	3.0	2.7	2.3
62°	1.8	2.5	2.7	2.9	3.2	3.3	3.2	2.7	2.3	2.1	1.9
62.5°	1.3	1.9	2.1	2.4	2.5	2.5	2.4	2.2	1.8	1.7	1.5
63°	1.1	1.4	1.6	1.9	2.0	2.0	1.9	1.7	1.5	1.4	1.3
63.5°	0.9	1.1	1.3	1.4	1.6	1.6	1.5	1.4	1.2	1.2	1.1
64°	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.2	1.0	1.0	0.9
64.5°	0.6	0.8	0.9	1.0	1.1	1.1	1.0	1.0	0.8	0.8	0.8
65°	0.5	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.7	0.7	0.7
65.5°	0.5	0.6	0.6	0.7	0.8	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: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-2700K

**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: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-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: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	912.8	912.8	912.8	912.8	912.8	912.8
0.5°	912.5	911.4	912.0	912.5	912.8	912.6
1°	911.5	910.2	910.9	911.7	912.2	912.4
1.5°	910.2	908.8	909.7	910.6	911.7	912.1
2°	908.6	907.1	908.1	909.4	910.6	911.6
2.5°	906.9	905.2	906.2	908.0	909.6	911.6
3°	904.9	903.0	904.3	906.2	908.6	910.1
3.5°	902.7	900.6	902.0	904.5	907.2	909.2
4°	900.4	898.1	899.6	902.5	905.8	908.1
4.5°	897.8	895.2	897.0	900.3	904.0	906.7
5°	894.9	892.1	894.1	897.8	902.1	905.3
5.5°	891.8	889.0	891.0	895.2	899.9	904.0
6°	888.5	885.6	887.9	892.5	897.7	901.7
6.5°	885.0	881.8	884.4	889.4	895.2	899.7
7°	881.4	878.2	880.8	886.2	892.6	897.4
7.5°	877.5	874.1	877.0	883.0	889.7	894.8
8°	873.6	869.8	873.1	879.4	886.6	892.0
8.5°	869.4	865.4	868.9	875.6	883.1	889.1
9°	865.2	861.0	864.5	871.7	879.6	885.9
9.5°	860.5	856.3	860.1	867.5	875.8	882.4
10°	855.9	851.6	855.4	863.3	871.9	878.8
10.5°	851.0	846.4	850.7	858.8	867.8	874.9
11°	846.0	841.2	845.7	854.0	863.5	870.9
11.5°	840.9	836.0	840.5	849.1	859.0	866.7
12°	835.5	830.4	835.2	844.1	854.2	862.0
12.5°	830.1	824.9	829.8	838.8	849.3	857.4
13°	824.4	819.1	824.1	833.5	844.4	852.7
13.5°	818.6	813.2	818.2	827.9	839.1	847.6
14°	812.5	807.2	812.2	822.4	833.8	842.6
14.5°	806.3	801.0	806.1	816.6	828.2	837.2
15°	799.9	794.6	799.8	810.6	822.8	831.7
15.5°	793.7	787.9	793.3	804.4	816.7	826.0
16°	787.0	781.4	786.8	798.3	810.8	820.2
16.5°	780.3	774.4	780.0	792.1	804.8	814.2
17°	773.3	767.6	773.2	785.6	798.6	808.1
17.5°	766.5	760.4	766.2	778.7	791.9	801.7
18°	759.5	753.1	759.2	771.9	785.3	795.4
18.5°	752.2	745.7	752.1	764.9	778.6	788.9
19°	745.0	738.5	744.6	757.7	771.6	782.2
19.5°	737.7	731.0	737.4	750.6	764.6	775.4
20°	730.4	723.2	730.1	743.1	757.4	768.6
20.5°	723.2	715.5	722.6	735.5	749.9	761.5
21°	715.3	707.8	714.9	727.9	742.4	754.4

TEST NUMBER: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	691.4	684.4	691.4	703.7	718.8	732.5
23°	683.2	676.3	683.2	695.5	710.7	725.0
23.5°	675.1	668.3	675.4	687.3	702.5	717.3
24°	666.7	660.1	667.0	678.9	694.1	709.4
24.5°	658.3	651.9	658.9	670.3	685.9	701.4
25°	649.9	643.4	650.4	661.7	677.5	693.3
25.5°	641.3	635.0	642.0	653.1	668.9	685.2
26°	632.9	626.5	633.1	644.0	660.4	677.1
26.5°	624.1	617.7	624.1	635.3	651.7	668.5
27°	615.1	608.7	615.0	625.8	642.9	660.1
27.5°	605.9	599.7	605.6	616.5	633.9	651.3
28°	596.5	589.8	595.7	607.0	624.7	642.6
28.5°	586.7	580.0	586.3	597.4	615.4	633.7
29°	576.9	569.9	576.2	587.7	606.0	624.6
29.5°	566.9	559.7	565.9	577.6	596.4	615.3
30°	556.5	549.0	555.4	567.6	586.8	605.9
30.5°	545.9	537.6	544.8	557.3	576.7	596.3
31°	535.1	526.2	533.6	547.0	566.6	586.5
31.5°	524.1	514.6	522.4	536.8	556.4	576.4
32°	512.9	502.6	510.6	525.8	546.1	565.9
32.5°	501.3	490.8	499.0	515.3	535.6	555.6
33°	489.5	478.5	487.1	504.4	524.6	544.8
33.5°	477.5	466.4	475.2	493.5	513.6	533.7
34°	465.4	454.3	463.4	482.2	502.3	522.0
34.5°	453.0	442.1	451.3	470.3	491.0	510.0
35°	440.8	430.1	439.0	458.4	479.0	497.6
35.5°	428.5	418.0	427.2	446.2	467.1	485.2
36°	415.9	406.1	415.2	433.8	454.2	471.9
36.5°	403.4	394.0	403.1	421.1	441.1	458.6
37°	390.7	381.7	390.8	407.1	427.6	444.9
37.5°	377.9	369.1	378.3	394.0	414.4	431.3
38°	365.0	356.7	365.4	380.1	400.0	417.2
38.5°	351.7	343.1	352.0	366.7	385.8	403.8
39°	338.8	329.5	338.6	359.0	371.1	389.8
39.5°	325.6	315.8	325.2	343.4	354.5	376.3
40°	312.3	302.1	311.7	327.7	340.7	362.8
40.5°	299.0	289.0	298.2	312.1	326.9	349.4
41°	285.9	276.4	284.2	296.4	313.2	335.8
41.5°	273.4	263.9	270.7	282.6	299.3	322.4
42°	260.2	251.8	257.5	268.7	285.4	308.9
42.5°	247.5	239.5	244.8	255.0	271.8	295.3
43°	235.0	227.4	232.2	241.4	257.9	281.6
43.5°	222.3	215.2	219.3	228.1	244.5	268.2



TEST NUMBER: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	187.0	179.3	182.2	189.6	206.6	229.6
45.5°	175.7	168.1	170.0	177.6	194.9	217.4
46°	164.7	157.1	158.4	166.1	183.3	204.8
46.5°	154.5	146.0	147.0	155.0	172.3	192.4
47°	143.9	135.5	136.2	144.2	161.1	180.3
47.5°	134.2	125.2	125.9	134.0	150.7	168.5
48°	124.9	115.3	115.9	124.2	140.1	157.0
48.5°	115.9	105.6	106.6	114.9	130.0	146.0
49°	107.4	96.6	97.6	106.1	120.0	135.2
49.5°	99.2	88.0	89.2	97.5	110.7	124.8
50°	92.0	80.0	81.6	89.6	101.3	115.0
50.5°	84.9	72.8	74.3	82.0	92.7	105.3
51°	77.7	66.3	67.8	75.0	84.6	96.1
51.5°	70.6	60.4	61.7	68.2	76.9	87.1
52°	64.5	55.1	56.2	62.1	69.7	78.7
52.5°	58.6	50.3	51.0	56.3	62.9	70.7
53°	53.0	45.7	46.4	50.7	56.4	63.3
53.5°	48.0	41.5	41.9	45.4	50.4	56.3
54°	43.2	37.5	37.7	40.6	44.9	50.1
54.5°	38.6	33.9	34.1	36.0	39.8	44.4
55°	34.4	30.4	30.5	32.2	34.7	39.2
55.5°	30.2	26.9	27.0	28.4	30.8	34.2
56°	26.4	23.4	23.4	24.6	26.9	30.3
56.5°	22.9	19.9	19.8	20.9	23.0	26.3
57°	19.6	16.3	16.2	17.1	19.1	22.4
57.5°	16.0	12.7	12.7	13.4	15.4	18.5
58°	13.6	9.7	9.6	10.2	11.8	14.8
58.5°	11.2	7.3	7.1	7.5	8.8	11.2
59°	8.8	5.4	5.3	5.6	6.5	8.2
59.5°	6.4	4.1	4.0	4.2	4.8	6.0
60°	4.0	3.5	3.4	3.6	3.6	4.5
60.5°	3.1	2.8	2.8	3.0	3.1	3.3
61°	2.5	2.2	2.1	2.5	2.5	2.8
61.5°	2.0	1.6	1.5	1.9	2.0	2.3
62°	1.6	1.3	1.3	1.3	1.5	1.8
62.5°	1.3	1.1	1.0	1.1	1.2	1.3
63°	1.1	0.9	0.9	0.9	1.0	1.1
63.5°	0.9	0.8	0.7	0.7	0.8	0.9
64°	0.8	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: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-1000lm-2700K

**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: P775770

CATALOG NUMBER: HCDJBL510CSD-HCD6TRH-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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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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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

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21.5°	747.1	759.1	768.9	771.2	769.0	763.8	752.9	738.4	727.0	718.9	712.6
22°	739.9	751.9	761.7	764.1	762.2	756.9	745.6	731.2	719.0	710.9	704.4



44°	254.9	274.4	291.2	298.3	304.3	293.3	280.4	264.3	244.9	229.1	215.1
44.5°	242.1	261.2	276.9	284.6	290.5	279.6	266.9	251.1	233.2	217.2	203.7



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°	707.3	700.1	707.1	719.8	734.6	747.1
22°	699.4	692.2	699.3	711.9	726.8	739.9



44°	210.3	202.9	206.7	215.0	231.7	254.9
44.5°	198.7	190.9	194.5	202.2	219.1	242.1

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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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(END OF REPORT)