

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: P775790

Luminaire Tested: HCDJBL5510CSD-HCD6TSQC-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775790
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-HCD6TSQC-1000lm-2700K
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

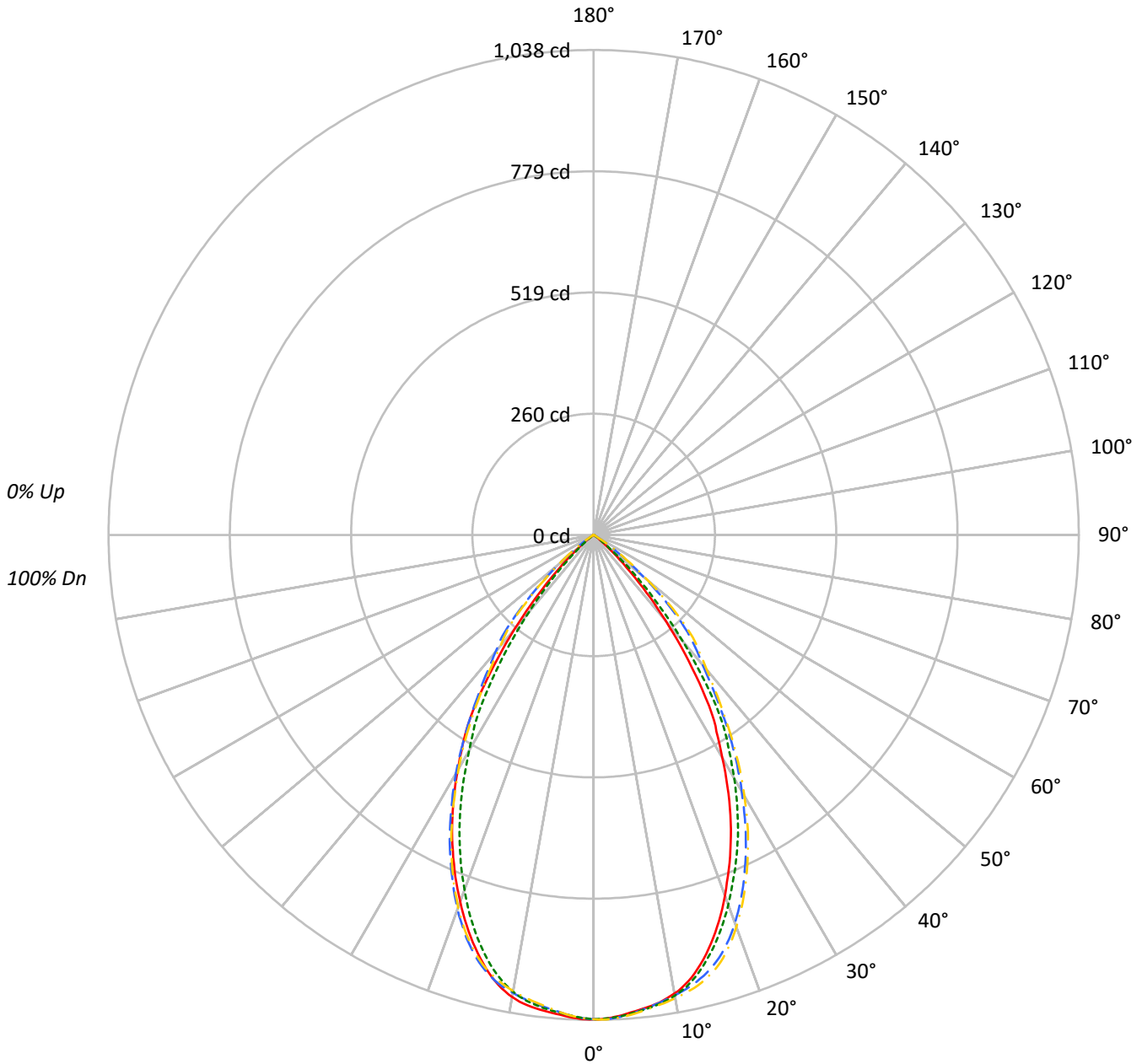
Lumens per Lamp: N/A
Luminaire Lumens: 1131.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P775790
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93					93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79					79			
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72					72			
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67					67			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62					62			
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57					57			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53					53			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49					49			
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	44649	44649	44649	44649
5°	44231	44327	44391	44171
10°	43571	43768	43899	43409
15°	41419	41882	41802	40960
20°	37631	38602	38282	37035
25°	32998	34599	34053	32233
30°	27389	29880	28925	26509
35°	21356	24635	22964	20026
40°	13461	16665	14810	12152
45°	6509	8902	7429	5565
50°	1976	3115	2338	1587
55°	263	240	233	203
60°	181	189	189	155
65°	153	153	163	132
70°	126	138	138	101
75°	116	116	116	100
80°	99	99	99	74
85°	49	99	49	49

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 17256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	8.6
10°-20°	262.8	23.2
20°-30°	332.2	29.4
30°-40°	280.7	24.8
40°-50°	135.5	12.0
50°-60°	20.3	1.8
60°-70°	1.7	0.2
70°-80°	0.8	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°	691.9	61.2
0°-40°	972.6	86.0
0°-60°	1128.4	99.8
0°-90°	1131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1037	1037	1037	1037	1037	
5°	1023	1026	1027	1022	1023	97
15°	929	940	938	919	929	259
25°	695	728	717	678	695	316
35°	406	469	437	381	406	248
45°	107	146	122	91	107	87
55°	4	3	3	3	4	7
65°	2	2	2	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P775790

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0
0.5°	1037.1	1037.2	1037.1	1037.2	1036.1	1036.8	1037.5	1038.1	1037.4	1036.7	1036.4
1°	1036.5	1037.0	1037.0	1037.2	1036.0	1037.0	1037.6	1037.9	1037.2	1035.8	1035.4
1.5°	1035.5	1036.4	1036.6	1037.0	1035.6	1036.6	1037.5	1037.4	1036.5	1034.8	1034.2
2°	1034.4	1035.6	1036.0	1036.6	1034.7	1036.1	1037.0	1036.4	1035.3	1033.4	1032.7
2.5°	1032.8	1034.7	1035.1	1035.8	1033.7	1035.2	1036.1	1035.3	1034.2	1031.8	1031.0
3°	1031.3	1033.2	1033.8	1034.8	1032.5	1034.1	1034.9	1033.8	1032.8	1030.0	1028.9
3.5°	1029.2	1031.6	1032.2	1033.4	1031.0	1032.6	1033.4	1032.5	1031.3	1028.2	1026.9
4°	1027.1	1029.7	1030.4	1031.7	1029.2	1031.2	1031.7	1030.8	1029.7	1026.3	1024.5
4.5°	1025.1	1027.5	1028.3	1029.9	1027.5	1029.3	1030.0	1029.3	1028.6	1024.4	1022.2
5°	1023.4	1025.4	1025.9	1027.9	1025.6	1027.4	1028.0	1027.9	1027.1	1022.6	1019.9
5.5°	1021.5	1023.4	1023.6	1025.7	1023.9	1025.5	1026.0	1026.3	1025.6	1020.7	1017.8
6°	1019.5	1021.5	1020.9	1023.3	1022.1	1023.6	1024.0	1024.6	1024.0	1018.7	1015.9
6.5°	1017.4	1019.6	1018.5	1021.0	1020.2	1021.7	1021.8	1022.8	1022.7	1016.7	1013.6
7°	1015.5	1017.4	1016.1	1018.8	1018.2	1019.6	1019.8	1021.1	1020.9	1014.4	1011.3
7.5°	1012.9	1015.1	1013.6	1016.4	1016.1	1017.4	1017.7	1019.1	1018.9	1011.9	1008.9
8°	1010.6	1012.8	1011.3	1013.9	1013.7	1015.2	1015.7	1017.1	1016.7	1009.3	1006.5
8.5°	1007.6	1010.2	1008.7	1011.3	1011.2	1012.6	1013.6	1014.8	1014.3	1006.5	1004.1
9°	1004.2	1007.5	1006.1	1008.6	1008.2	1009.9	1011.5	1012.2	1011.4	1003.4	1001.5
9.5°	1000.5	1004.3	1003.6	1005.6	1004.9	1007.2	1009.3	1009.6	1007.9	999.9	998.5
10°	996.6	1000.8	1000.8	1002.6	1001.1	1004.0	1007.1	1006.1	1004.1	995.8	995.4
10.5°	992.5	997.1	997.9	999.2	997.2	1000.4	1004.7	1002.5	1000.1	991.8	992.6
11°	987.6	993.3	995.0	995.5	992.9	996.4	1002.1	998.2	995.2	987.5	989.2
11.5°	982.0	989.1	992.0	991.8	988.2	992.5	999.2	994.2	990.0	982.4	985.4
12°	976.1	984.5	988.5	987.6	982.8	988.3	996.2	989.4	983.9	976.9	981.2
12.5°	969.6	979.2	984.9	983.3	976.7	983.3	993.3	984.2	977.3	970.8	976.8
13°	962.4	973.4	981.0	978.5	970.2	978.2	989.7	978.4	970.3	964.0	971.6
13.5°	954.6	967.2	976.8	973.6	963.1	972.2	985.8	972.2	962.8	957.0	966.3
14°	946.6	960.6	972.4	968.0	955.6	966.0	981.4	965.4	954.7	949.6	960.3
14.5°	938.2	953.5	967.5	961.7	947.8	959.1	976.8	958.1	946.4	941.8	954.1
15°	929.2	945.8	962.2	954.9	939.6	952.0	972.0	950.7	937.8	933.6	947.0
15.5°	919.7	938.0	956.6	948.0	931.2	944.6	966.6	943.0	928.8	925.6	939.6
16°	910.0	929.6	950.6	940.8	922.3	937.1	960.6	935.1	919.5	916.7	931.5
16.5°	899.9	921.0	943.8	933.0	913.3	929.2	954.0	926.6	910.0	907.7	922.8
17°	889.8	912.0	936.8	924.9	904.0	920.8	946.8	917.6	900.0	898.3	913.6
17.5°	878.9	902.6	929.2	916.6	894.4	912.3	939.0	908.7	889.4	889.0	904.6
18°	868.3	893.3	921.0	908.2	884.2	903.6	930.6	899.5	879.1	878.9	894.4
18.5°	857.3	883.5	912.4	899.3	874.1	894.6	921.9	889.9	868.5	868.7	884.0
19°	845.8	873.4	903.1	890.2	863.9	885.3	912.5	880.0	857.7	858.4	873.5
19.5°	833.7	863.1	893.7	880.6	853.5	875.8	902.9	870.1	846.6	848.3	863.2
20°	821.3	852.3	883.7	871.3	842.5	866.0	893.0	859.8	835.5	837.2	851.4
20.5°	808.9	841.8	873.4	861.6	831.2	856.1	882.6	849.3	824.1	826.2	840.0
21°	796.0	830.6	862.8	851.7	819.8	845.6	871.8	838.7	812.4	815.4	828.2



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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°	759.7	794.8	829.4	820.4	785.6	813.4	838.6	806.2	777.4	780.8	792.1
23°	747.0	782.7	817.7	809.4	774.7	801.9	826.6	795.0	765.2	769.3	779.4
23.5°	733.8	770.7	805.7	798.4	763.1	790.5	815.0	783.8	753.1	757.0	766.6
24°	721.0	759.2	793.5	787.0	751.5	779.3	802.9	772.2	741.0	744.7	753.9
24.5°	707.9	747.4	781.3	775.5	739.9	768.5	790.6	760.0	728.9	732.3	741.2
25°	694.6	735.1	768.7	764.3	728.3	756.6	777.7	747.9	716.8	720.0	728.5
25.5°	681.0	722.3	756.1	753.2	716.7	744.8	765.0	735.7	703.9	708.3	715.8
26°	667.2	709.5	742.9	741.5	704.6	732.9	752.5	723.5	691.1	695.4	701.4
26.5°	653.3	696.3	729.7	729.3	692.0	721.0	739.9	711.4	677.7	682.4	687.9
27°	639.3	683.4	716.5	717.3	679.4	710.1	727.3	698.5	664.5	669.3	673.8
27.5°	624.8	669.9	702.8	705.3	666.7	697.8	714.7	685.5	651.1	656.2	659.9
28°	610.2	656.8	689.4	692.9	653.9	685.0	700.8	672.6	637.5	643.3	645.4
28.5°	595.4	642.9	675.2	680.6	641.1	672.4	687.4	659.5	623.6	630.1	631.7
29°	580.7	629.7	661.3	667.6	627.9	659.7	673.3	646.0	610.0	616.5	617.7
29.5°	565.9	615.7	647.5	654.6	614.7	647.5	659.0	632.6	595.7	603.4	603.8
30°	550.9	602.4	634.2	642.3	601.0	634.2	644.7	619.2	581.8	589.9	589.1
30.5°	537.1	588.0	620.4	629.2	587.4	621.4	631.3	605.8	568.2	576.4	575.0
31°	523.5	574.1	606.4	616.9	574.2	608.3	617.5	592.3	555.5	562.6	560.2
31.5°	508.8	559.8	592.5	603.8	561.7	596.1	603.3	578.5	541.2	549.2	545.5
32°	495.9	545.7	578.9	590.8	547.9	582.5	589.0	565.2	529.1	536.3	530.6
32.5°	485.0	531.4	564.8	577.3	534.6	569.7	574.7	551.5	515.6	524.0	515.9
33°	472.4	518.4	550.2	564.8	524.1	556.4	559.9	539.1	502.3	510.7	501.2
33.5°	456.8	505.3	535.9	551.8	511.6	544.7	545.6	525.8	487.2	498.8	486.6
34°	441.4	491.6	521.8	539.1	498.0	531.2	531.0	512.9	471.3	486.2	472.4
34.5°	423.8	479.4	507.5	526.4	484.0	517.8	516.6	501.6	454.7	473.5	458.2
35°	406.3	468.9	493.5	513.7	468.7	507.0	502.3	487.9	436.9	459.7	444.1
35.5°	389.1	457.0	478.9	500.7	453.0	496.5	488.4	475.2	418.7	445.0	430.5
36°	372.4	442.2	464.7	490.6	435.6	482.6	474.6	460.9	400.4	429.0	417.0
36.5°	354.0	428.0	451.0	477.9	418.0	470.4	461.2	445.5	381.8	413.0	404.1
37°	337.5	411.2	437.3	465.3	399.5	455.9	447.6	429.6	364.1	396.3	391.5
37.5°	321.0	395.0	424.0	452.4	382.0	441.2	434.7	413.0	346.9	379.4	379.4
38°	304.5	379.0	410.6	438.0	364.0	425.2	422.2	396.0	329.7	362.5	367.4
38.5°	288.1	363.6	398.0	423.0	346.9	409.4	410.1	378.4	313.4	345.6	356.2
39°	271.3	347.9	385.4	406.9	329.9	392.5	398.5	361.6	297.0	329.4	345.6
39.5°	255.1	332.1	373.4	390.4	313.3	375.7	386.9	344.9	280.3	313.8	336.3
40°	239.5	316.4	362.5	373.9	296.5	358.9	376.0	328.8	263.5	298.7	326.7
40.5°	224.0	300.7	353.3	356.7	280.1	342.7	365.7	313.3	247.1	283.9	316.9
41°	209.5	285.1	344.1	341.0	263.7	326.3	356.8	297.9	231.0	268.6	310.6
41.5°	195.4	269.5	334.9	325.1	247.4	310.9	347.8	282.7	215.4	253.7	302.0
42°	181.4	254.1	325.6	309.4	231.3	295.5	337.8	267.6	200.5	238.7	291.8
42.5°	167.5	238.7	316.4	293.7	215.5	280.7	330.2	252.4	186.4	224.0	281.8
43°	154.3	224.3	307.3	278.8	200.7	265.2	323.9	237.1	172.5	209.6	268.7
43.5°	141.6	210.5	297.7	263.9	186.3	249.8	314.1	221.9	159.2	195.6	255.4



TEST NUMBER: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6T5QC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	106.9	170.1	265.6	219.5	146.2	205.9	283.4	180.6	122.0	156.8	214.9
45.5°	96.2	157.3	253.9	205.4	133.8	191.9	271.1	167.9	110.4	144.4	201.3
46°	86.1	144.8	241.4	191.6	121.9	178.5	258.1	155.1	100.8	132.4	188.1
46.5°	76.5	132.7	228.9	178.5	110.1	165.8	244.5	142.9	91.2	120.9	175.2
47°	67.3	121.0	216.1	165.7	100.4	152.9	230.0	131.1	81.6	110.2	162.8
47.5°	58.6	109.8	203.2	153.5	90.6	140.7	215.8	119.7	72.0	100.7	150.4
48°	50.7	99.0	189.8	141.6	80.9	128.8	202.2	108.6	62.5	91.2	138.8
48.5°	43.7	89.2	176.5	129.9	71.2	117.5	189.0	99.3	54.7	81.7	127.5
49°	37.5	79.4	163.3	118.5	61.5	106.0	176.2	90.0	47.6	72.3	116.6
49.5°	33.4	70.2	151.2	107.6	53.7	96.3	163.7	80.7	41.0	62.8	106.0
50°	29.5	61.5	139.1	97.4	46.5	86.5	151.9	71.4	34.9	55.1	96.8
50.5°	25.5	53.7	128.0	87.7	39.8	76.8	140.5	62.1	29.6	47.7	87.6
51°	21.5	46.3	116.8	78.1	33.7	67.1	129.6	54.0	24.5	41.1	78.4
51.5°	17.6	39.7	106.5	69.2	28.3	58.8	118.5	47.0	20.1	34.7	69.1
52°	14.6	33.8	96.4	61.0	23.3	51.0	107.6	40.1	16.8	29.1	61.4
52.5°	11.8	29.8	87.2	53.3	18.7	43.7	98.3	34.1	13.5	23.9	54.0
53°	9.0	25.8	78.2	46.0	15.6	37.1	89.0	28.2	10.2	19.5	47.2
53.5°	6.3	21.8	69.5	39.4	12.5	31.0	79.6	23.3	6.8	16.2	40.9
54°	4.3	17.8	61.3	33.2	9.3	25.7	70.3	18.7	3.6	12.9	35.3
54.5°	3.8	14.9	54.1	28.3	6.2	20.8	61.0	15.6	3.3	9.6	30.1
55°	3.5	12.0	47.1	23.4	3.2	17.3	53.7	12.4	3.1	6.4	25.4
55.5°	3.1	9.3	40.9	18.5	3.0	13.8	46.4	9.3	3.0	3.3	21.3
56°	2.8	6.6	35.2	13.7	2.9	10.4	39.8	6.1	2.9	3.0	17.7
56.5°	2.7	4.4	31.0	9.9	2.8	7.0	33.7	3.0	2.8	2.9	14.6
57°	2.6	4.0	26.8	6.6	2.7	3.5	28.3	2.8	2.7	2.8	12.7
57.5°	2.5	3.6	22.7	3.9	2.6	2.9	23.3	2.8	2.6	2.7	10.8
58°	2.4	3.2	18.5	3.5	2.5	2.8	19.0	2.7	2.6	2.6	8.9
58.5°	2.3	2.9	14.3	3.1	2.4	2.7	15.3	2.6	2.5	2.5	7.1
59°	2.3	2.5	11.6	2.8	2.3	2.6	13.2	2.5	2.4	2.4	5.2
59.5°	2.2	2.4	9.4	2.4	2.3	2.5	11.1	2.4	2.3	2.4	4.2
60°	2.1	2.3	7.6	2.3	2.2	2.4	9.0	2.3	2.2	2.3	3.5
60.5°	2.0	2.3	6.2	2.3	2.1	2.3	7.0	2.3	2.2	2.2	2.9
61°	2.0	2.2	5.0	2.2	2.0	2.3	4.9	2.2	2.1	2.1	2.5
61.5°	1.9	2.1	4.1	2.1	2.0	2.2	4.0	2.1	2.0	2.1	2.2
62°	1.9	2.1	3.7	2.1	1.9	2.1	3.3	2.1	1.9	2.0	2.1
62.5°	1.8	2.0	3.3	2.0	1.8	2.1	2.8	2.0	1.9	1.9	2.0
63°	1.7	1.9	2.8	1.9	1.8	2.0	2.4	1.9	1.8	1.9	1.9
63.5°	1.7	1.9	2.4	1.9	1.7	1.9	2.2	1.9	1.8	1.8	1.8
64°	1.6	1.8	2.0	1.8	1.7	1.9	2.0	1.8	1.7	1.7	1.8
64.5°	1.6	1.7	1.9	1.8	1.6	1.8	2.0	1.8	1.6	1.7	1.7
65°	1.5	1.7	1.9	1.7	1.5	1.7	1.9	1.7	1.6	1.6	1.7
65.5°	1.5	1.6	1.8	1.6	1.5	1.7	1.8	1.6	1.5	1.6	1.6
66°	1.4	1.6	1.7	1.6	1.4	1.6	1.8	1.6	1.5	1.5	1.6



TEST NUMBER: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.3	1.4	1.6	1.4	1.3	1.5	1.6	1.4	1.3	1.4	1.4
68°	1.2	1.4	1.5	1.4	1.2	1.4	1.5	1.4	1.3	1.3	1.3
68.5°	1.2	1.3	1.5	1.3	1.2	1.3	1.5	1.3	1.2	1.2	1.3
69°	1.1	1.3	1.4	1.3	1.1	1.3	1.4	1.3	1.2	1.2	1.2
69.5°	1.1	1.2	1.4	1.3	1.1	1.2	1.4	1.2	1.1	1.1	1.2
70°	1.0	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.1	1.1	1.1
70.5°	1.0	1.1	1.3	1.2	1.0	1.2	1.3	1.1	1.0	1.1	1.1
71°	1.0	1.1	1.2	1.1	1.0	1.1	1.2	1.1	1.0	1.0	1.0
71.5°	0.9	1.0	1.2	1.1	0.9	1.1	1.2	1.0	0.9	1.0	1.0
72°	0.9	1.0	1.1	1.0	0.9	1.0	1.1	1.0	0.9	0.9	0.9
72.5°	0.8	0.9	1.1	1.0	0.9	1.0	1.1	1.0	0.9	0.9	0.9
73°	0.8	0.9	1.0	1.0	0.8	0.9	1.0	0.9	0.8	0.8	0.9
73.5°	0.8	0.9	1.0	0.9	0.8	0.9	1.0	0.9	0.8	0.8	0.8
74°	0.7	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.8
74.5°	0.7	0.8	0.9	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.7
75°	0.7	0.7	0.8	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.7
75.5°	0.6	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.6
76°	0.6	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.6
76.5°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.6
77°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.5
77.5°	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
78°	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.4
78.5°	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.4
79°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
79.5°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.3
80.5°	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3
81°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2
82°	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
83°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2
84°	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1
85°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
85.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
86°	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1
86.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
87°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775790
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-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: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1037.0	1037.0	1037.0	1037.0	1037.0	1037.0
0.5°	1036.0	1035.5	1036.0	1036.5	1037.5	1037.1
1°	1034.8	1034.8	1035.1	1035.4	1036.7	1036.5
1.5°	1033.6	1033.7	1033.9	1034.2	1035.9	1035.5
2°	1032.1	1032.4	1032.3	1032.7	1034.8	1034.4
2.5°	1030.4	1030.8	1030.7	1030.8	1033.0	1032.8
3°	1028.5	1029.1	1028.8	1028.8	1031.4	1031.3
3.5°	1026.7	1027.1	1026.6	1026.6	1029.2	1029.2
4°	1024.8	1025.5	1024.5	1024.2	1026.9	1027.1
4.5°	1023.0	1023.8	1022.4	1021.4	1024.6	1025.1
5°	1021.0	1022.0	1020.4	1018.6	1022.3	1023.4
5.5°	1018.8	1020.3	1018.2	1016.0	1020.1	1021.5
6°	1016.4	1018.4	1015.9	1013.5	1017.9	1019.5
6.5°	1014.1	1016.3	1013.5	1011.1	1015.5	1017.4
7°	1011.4	1014.0	1011.0	1008.7	1013.0	1015.5
7.5°	1008.6	1011.5	1008.1	1006.1	1010.3	1012.9
8°	1005.5	1008.7	1005.0	1003.3	1007.6	1010.6
8.5°	1002.0	1005.4	1001.7	1000.5	1004.6	1007.6
9°	997.9	1001.4	998.0	997.4	1001.4	1004.2
9.5°	993.8	997.2	994.1	994.5	997.7	1000.5
10°	989.2	992.9	989.8	991.2	994.1	996.6
10.5°	984.1	987.6	985.0	987.8	990.2	992.5
11°	978.7	982.1	980.0	984.2	986.0	987.6
11.5°	972.9	975.8	974.6	980.2	981.5	982.0
12°	966.6	969.0	968.5	975.9	976.5	976.1
12.5°	959.8	961.7	962.0	971.1	970.8	969.6
13°	952.6	954.2	954.9	966.2	964.8	962.4
13.5°	945.0	946.0	947.6	960.9	958.4	954.6
14°	937.1	937.3	939.9	955.2	951.4	946.6
14.5°	929.0	928.3	931.8	949.0	944.2	938.2
15°	920.4	918.9	923.2	942.1	936.2	929.2
15.5°	911.6	909.2	914.2	934.8	928.0	919.7
16°	902.3	899.2	905.0	926.9	919.4	910.0
16.5°	892.8	888.6	895.5	918.6	910.5	899.9
17°	883.1	878.0	886.0	909.9	901.4	889.8
17.5°	873.2	867.1	875.9	900.4	891.6	878.9
18°	862.8	856.2	865.4	890.8	881.8	868.3
18.5°	852.9	844.6	854.8	880.7	871.7	857.3
19°	842.0	832.7	844.2	870.2	861.4	845.8
19.5°	831.2	820.6	833.2	859.3	850.8	833.7
20°	819.6	808.3	822.1	848.1	839.9	821.3
20.5°	808.4	795.5	810.0	835.8	828.9	808.9
21°	796.6	783.1	798.4	824.4	817.2	796.0

TEST NUMBER: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	760.9	745.3	761.5	786.8	780.5	759.7
23°	749.0	732.4	749.5	774.6	767.8	747.0
23.5°	737.0	719.4	737.5	761.3	755.7	733.8
24°	725.0	705.9	724.4	748.0	744.0	721.0
24.5°	713.0	692.3	711.3	734.0	731.9	707.9
25°	699.7	678.5	698.2	721.0	718.6	694.6
25.5°	686.1	664.7	684.7	707.0	705.6	681.0
26°	672.6	650.4	671.2	692.7	692.2	667.2
26.5°	659.1	636.4	657.7	677.5	679.2	653.3
27°	645.2	621.7	644.2	663.8	665.2	639.3
27.5°	631.1	606.9	629.9	649.2	651.6	624.8
28°	617.1	592.0	615.8	634.3	637.5	610.2
28.5°	602.8	577.0	601.8	619.9	623.6	595.4
29°	588.3	561.9	587.4	605.7	609.4	580.7
29.5°	573.7	547.2	573.0	591.9	595.7	565.9
30°	559.2	533.2	558.4	577.8	581.2	550.9
30.5°	544.8	519.6	543.9	563.5	566.9	537.1
31°	530.4	504.9	529.6	548.7	552.3	523.5
31.5°	517.0	492.2	515.4	533.8	538.2	508.8
32°	503.6	480.7	502.2	518.9	523.8	495.9
32.5°	489.6	465.6	489.0	504.1	509.6	485.0
33°	477.4	451.2	474.7	489.5	496.7	472.4
33.5°	466.1	433.6	463.3	474.5	483.2	456.8
34°	451.6	415.6	451.7	459.7	469.5	441.4
34.5°	438.2	398.2	436.8	445.0	458.4	423.8
35°	421.7	381.0	422.7	430.6	447.3	406.3
35.5°	405.1	364.7	405.9	416.5	433.4	389.1
36°	388.7	347.7	389.4	403.0	419.9	372.4
36.5°	372.7	330.5	373.5	389.4	404.2	354.0
37°	356.8	313.4	357.2	376.6	387.9	337.5
37.5°	341.2	296.4	341.8	364.2	371.4	321.0
38°	325.5	279.3	326.2	353.5	353.9	304.5
38.5°	309.5	262.6	310.8	342.8	339.4	288.1
39°	293.3	246.3	295.4	332.0	324.7	271.3
39.5°	277.2	231.0	279.8	321.3	310.2	255.1
40°	261.3	216.2	263.8	310.6	295.6	239.5
40.5°	246.2	202.0	248.6	301.7	280.0	224.0
41°	231.5	187.6	233.5	294.0	264.6	209.5
41.5°	217.3	173.8	219.6	285.5	249.2	195.4
42°	203.4	159.9	205.8	277.7	234.5	181.4
42.5°	189.8	147.6	192.8	269.5	220.5	167.5
43°	176.5	135.3	179.7	257.0	207.0	154.3
43.5°	163.7	123.6	166.8	245.2	193.7	141.6



TEST NUMBER: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	127.2	91.4	130.5	205.7	155.9	106.9
45.5°	115.8	81.6	119.2	193.7	143.7	96.2
46°	104.9	72.3	108.5	181.7	132.1	86.1
46.5°	95.3	63.3	98.4	169.8	120.8	76.5
47°	85.7	55.1	88.7	157.9	110.0	67.3
47.5°	76.2	47.5	79.1	147.0	99.8	58.6
48°	66.6	40.9	70.3	135.8	89.9	50.7
48.5°	58.3	35.1	62.1	125.1	80.3	43.7
49°	50.5	31.3	54.3	114.9	71.6	37.5
49.5°	43.4	27.5	47.2	105.0	63.1	33.4
50°	37.3	23.7	40.6	95.6	55.1	29.5
50.5°	31.9	19.9	34.7	86.8	47.6	25.5
51°	27.2	16.2	30.8	78.6	41.2	21.5
51.5°	23.1	13.3	26.9	70.8	35.4	17.6
52°	19.6	10.5	23.0	63.4	31.4	14.6
52.5°	16.5	7.8	19.0	56.6	27.4	11.8
53°	13.9	5.2	15.2	50.0	23.5	9.0
53.5°	11.3	3.4	12.3	43.9	19.5	6.3
54°	8.7	3.1	9.5	38.3	15.6	4.3
54.5°	6.1	2.9	6.9	33.2	12.7	3.8
55°	3.6	2.7	4.5	28.5	9.9	3.5
55.5°	2.7	2.5	4.0	25.1	7.2	3.1
56°	2.6	2.4	3.6	21.7	4.8	2.8
56.5°	2.5	2.3	3.1	18.4	3.1	2.7
57°	2.4	2.2	2.6	15.0	2.9	2.6
57.5°	2.3	2.1	2.1	11.6	2.8	2.5
58°	2.2	2.1	2.1	9.3	2.6	2.4
58.5°	2.2	2.0	2.0	7.4	2.4	2.3
59°	2.1	1.9	2.0	5.9	2.3	2.3
59.5°	2.0	1.9	1.9	4.8	2.3	2.2
60°	2.0	1.8	1.8	3.8	2.2	2.1
60.5°	1.9	1.7	1.8	3.4	2.1	2.0
61°	1.8	1.7	1.7	2.9	2.1	2.0
61.5°	1.8	1.6	1.7	2.4	2.0	1.9
62°	1.7	1.6	1.6	1.9	1.9	1.9
62.5°	1.7	1.5	1.6	1.8	1.9	1.8
63°	1.6	1.5	1.5	1.8	1.8	1.7
63.5°	1.5	1.4	1.5	1.7	1.8	1.7
64°	1.5	1.4	1.4	1.7	1.7	1.6
64.5°	1.4	1.3	1.4	1.6	1.6	1.6
65°	1.4	1.3	1.3	1.6	1.6	1.5
65.5°	1.3	1.2	1.3	1.5	1.5	1.5
66°	1.3	1.2	1.2	1.5	1.5	1.4



TEST NUMBER: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.0	1.1	1.3	1.3	1.3
68°	1.1	1.0	1.1	1.3	1.3	1.2
68.5°	1.1	1.0	1.0	1.2	1.2	1.2
69°	1.0	0.9	1.0	1.2	1.2	1.1
69.5°	1.0	0.9	1.0	1.1	1.2	1.1
70°	0.9	0.8	0.9	1.1	1.1	1.0
70.5°	0.9	0.8	0.9	1.1	1.1	1.0
71°	0.9	0.8	0.8	1.0	1.0	1.0
71.5°	0.8	0.7	0.8	1.0	1.0	0.9
72°	0.8	0.7	0.8	0.9	0.9	0.9
72.5°	0.7	0.7	0.7	0.9	0.9	0.8
73°	0.7	0.7	0.7	0.8	0.9	0.8
73.5°	0.7	0.6	0.7	0.8	0.8	0.8
74°	0.6	0.6	0.7	0.8	0.8	0.7
74.5°	0.6	0.6	0.6	0.7	0.8	0.7
75°	0.6	0.6	0.6	0.7	0.7	0.7
75.5°	0.6	0.5	0.6	0.6	0.7	0.6
76°	0.5	0.5	0.5	0.6	0.6	0.6
76.5°	0.5	0.5	0.5	0.6	0.6	0.6
77°	0.5	0.5	0.5	0.5	0.6	0.6
77.5°	0.4	0.4	0.5	0.5	0.5	0.5
78°	0.4	0.4	0.4	0.5	0.5	0.5
78.5°	0.4	0.4	0.4	0.4	0.5	0.5
79°	0.4	0.4	0.4	0.4	0.5	0.4
79.5°	0.3	0.3	0.4	0.4	0.4	0.4
80°	0.3	0.3	0.3	0.3	0.4	0.4
80.5°	0.3	0.3	0.3	0.3	0.4	0.4
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.2	0.3	0.3	0.3	0.3	0.3
82°	0.2	0.2	0.2	0.2	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.3
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.1	0.2	0.2	0.1	0.2	0.2
84.5°	0.1	0.1	0.1	0.1	0.1	0.2
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°	0.0	0.1	0.1	0.1	0.1	0.1
87°	0.0	0.0	0.0	0.0	0.0	0.1
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: P775790

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-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°	783.8	818.9	851.8	841.6	808.3	834.9	861.1	828.1	801.0	804.4	816.8
22°	771.7	807.0	840.6	831.1	796.8	824.2	850.0	817.4	789.8	792.3	804.4



44°	129.4	197.0	289.7	249.1	172.2	234.8	305.3	207.6	146.4	182.2	242.1
44.5°	117.9	183.3	277.7	234.1	159.2	220.5	295.0	194.0	133.9	169.3	228.5



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



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°	784.7	770.9	786.1	812.3	805.2	783.8
22°	772.9	758.5	774.0	800.0	792.6	771.7



44°	151.1	112.1	154.0	232.2	181.1	129.4
44.5°	138.6	101.6	142.1	219.0	168.3	117.9

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66.5°	1.3	1.1	1.2	1.4	1.4	1.4
67°	1.2	1.1	1.2	1.4	1.4	1.3

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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)