

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: P775791

Luminaire Tested: HCDJBL5510CSD-HCD6TSQC-1000lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775791
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-3000K
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

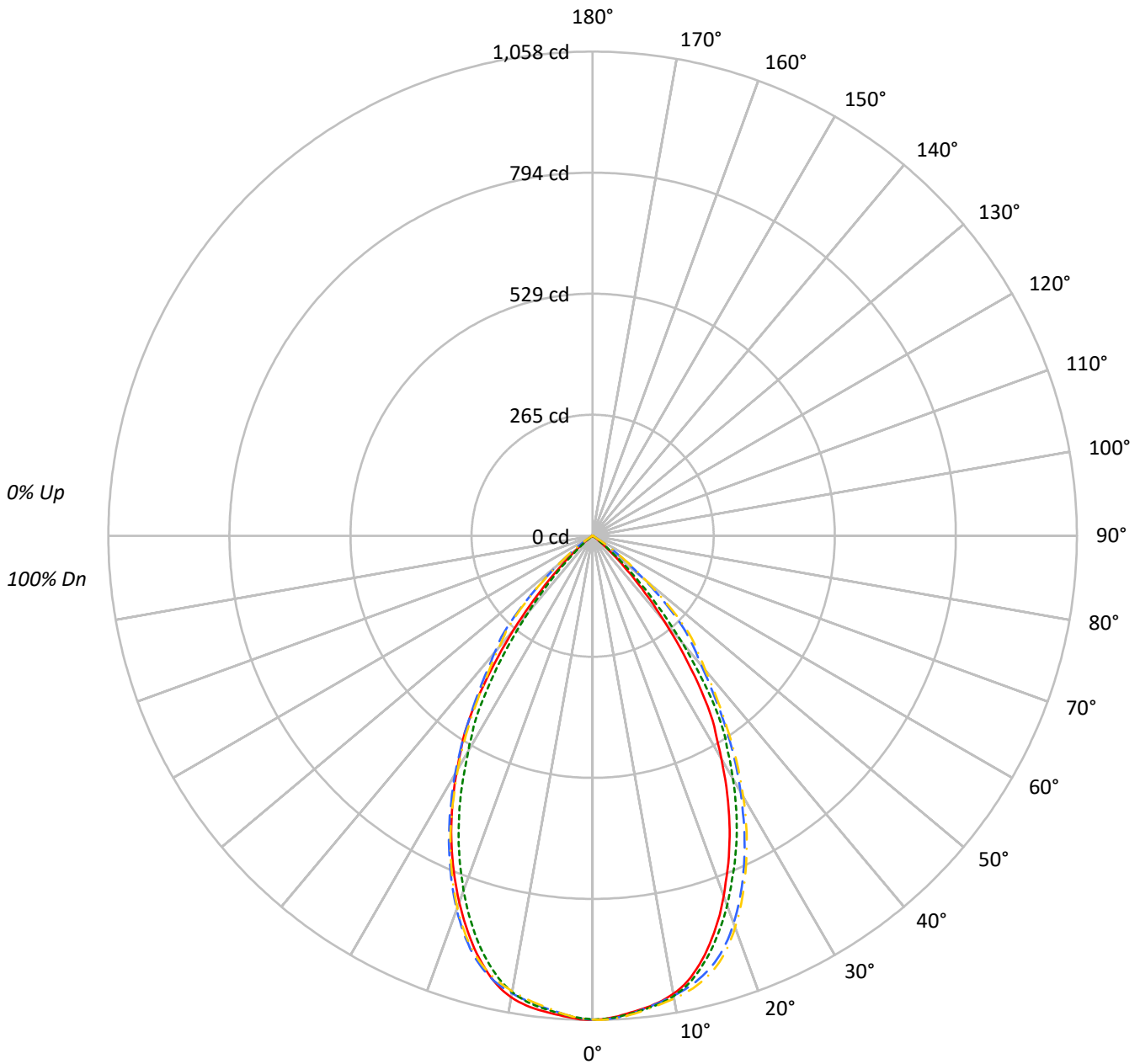
Lumens per Lamp: N/A
Luminaire Lumens: 1153.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (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	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°	45527	45527	45527	45527
5°	45100	45200	45264	45040
10°	44432	44629	44760	44266
15°	42234	42707	42627	41766
20°	38369	39363	39033	37764
25°	33649	35283	34723	32870
30°	27931	30466	29492	27031
35°	21776	25119	23416	20420
40°	13725	16996	15102	12393
45°	6643	9073	7575	5675
50°	2016	3175	2385	1621
55°	270	248	240	210
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: 17597 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	8.6
10°-20°	267.9	23.2
20°-30°	338.7	29.4
30°-40°	286.2	24.8
40°-50°	138.1	12.0
50°-60°	20.7	1.8
60°-70°	1.7	0.1
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°	705.5	61.2
0°-40°	991.7	86.0
0°-60°	1150.6	99.8
0°-90°	1153.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1057	1057	1057	1057	1057	
5°	1044	1046	1047	1042	1044	99
15°	948	958	956	937	948	264
25°	708	743	731	692	708	322
35°	414	478	446	388	414	253
45°	109	149	124	93	109	89
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
0.5°	1057.5	1057.6	1057.5	1057.6	1056.5	1057.2	1057.9	1058.5	1057.8	1057.1	1056.8
1°	1056.9	1057.4	1057.4	1057.6	1056.4	1057.4	1058.0	1058.3	1057.6	1056.2	1055.8
1.5°	1055.9	1056.8	1057.0	1057.4	1056.0	1057.0	1057.9	1057.8	1056.9	1055.1	1054.5
2°	1054.7	1056.0	1056.4	1057.0	1055.0	1056.5	1057.4	1056.8	1055.6	1053.7	1053.0
2.5°	1053.1	1055.0	1055.4	1056.2	1054.0	1055.5	1056.5	1055.6	1054.5	1052.1	1051.3
3°	1051.6	1053.5	1054.1	1055.1	1052.8	1054.4	1055.2	1054.1	1053.1	1050.2	1049.1
3.5°	1049.4	1051.9	1052.5	1053.7	1051.3	1052.9	1053.7	1052.8	1051.6	1048.4	1047.1
4°	1047.3	1049.9	1050.7	1052.0	1049.4	1051.5	1052.0	1051.1	1049.9	1046.5	1044.6
4.5°	1045.2	1047.7	1048.5	1050.1	1047.7	1049.5	1050.2	1049.5	1048.8	1044.5	1042.3
5°	1043.5	1045.6	1046.1	1048.1	1045.8	1047.6	1048.2	1048.1	1047.3	1042.7	1039.9
5.5°	1041.6	1043.5	1043.7	1045.9	1044.0	1045.7	1046.2	1046.5	1045.8	1040.8	1037.8
6°	1039.5	1041.6	1041.0	1043.4	1042.2	1043.7	1044.1	1044.7	1044.1	1038.7	1035.9
6.5°	1037.4	1039.6	1038.5	1041.1	1040.2	1041.8	1041.9	1042.9	1042.8	1036.7	1033.5
7°	1035.5	1037.4	1036.1	1038.8	1038.2	1039.6	1039.8	1041.2	1041.0	1034.3	1031.2
7.5°	1032.8	1035.0	1033.5	1036.4	1036.1	1037.4	1037.7	1039.1	1038.9	1031.8	1028.7
8°	1030.5	1032.7	1031.2	1033.8	1033.6	1035.1	1035.7	1037.1	1036.7	1029.1	1026.3
8.5°	1027.4	1030.0	1028.5	1031.2	1031.1	1032.5	1033.5	1034.7	1034.2	1026.3	1023.8
9°	1023.9	1027.3	1025.9	1028.4	1028.0	1029.7	1031.4	1032.1	1031.3	1023.1	1021.2
9.5°	1020.1	1024.0	1023.3	1025.4	1024.6	1027.0	1029.1	1029.4	1027.7	1019.5	1018.2
10°	1016.3	1020.5	1020.5	1022.3	1020.8	1023.7	1026.9	1025.9	1023.8	1015.5	1015.0
10.5°	1012.1	1016.8	1017.6	1018.9	1016.9	1020.0	1024.4	1022.2	1019.7	1011.4	1012.2
11°	1007.1	1012.9	1014.6	1015.1	1012.5	1016.1	1021.8	1017.9	1014.8	1007.0	1008.7
11.5°	1001.4	1008.6	1011.6	1011.4	1007.7	1012.1	1018.9	1013.8	1009.5	1001.8	1004.8
12°	995.4	1003.9	1008.0	1007.1	1002.2	1007.8	1015.9	1008.9	1003.3	996.2	1000.6
12.5°	988.7	998.5	1004.3	1002.7	996.0	1002.7	1012.9	1003.6	996.6	990.0	996.1
13°	981.4	992.6	1000.4	997.8	989.3	997.5	1009.2	997.7	989.4	983.0	990.8
13.5°	973.4	986.3	996.1	992.8	982.1	991.4	1005.3	991.4	981.8	975.9	985.4
14°	965.3	979.5	991.6	987.1	974.4	985.1	1000.8	984.4	973.5	968.3	979.2
14.5°	956.7	972.3	986.6	980.7	966.5	978.0	996.1	977.0	965.1	960.4	972.9
15°	947.5	964.4	981.2	973.7	958.1	970.8	991.2	969.4	956.3	952.0	965.7
15.5°	937.8	956.5	975.5	966.7	949.6	963.2	985.7	961.6	947.1	943.8	958.1
16°	927.9	947.9	969.3	959.3	940.5	955.6	979.5	953.5	937.6	934.8	949.9
16.5°	917.6	939.1	962.4	951.4	931.3	947.5	972.8	944.9	927.9	925.6	941.0
17°	907.3	930.0	955.3	943.1	921.8	938.9	965.5	935.7	917.7	916.0	931.6
17.5°	896.2	920.4	947.5	934.7	912.0	930.3	957.5	926.6	906.9	906.5	922.4
18°	885.4	910.9	939.1	926.1	901.6	921.4	948.9	917.2	896.4	896.2	912.0
18.5°	874.2	900.9	930.4	917.0	891.3	912.2	940.1	907.4	885.6	885.8	901.4
19°	862.4	890.6	920.9	907.7	880.9	902.7	930.5	897.3	874.6	875.3	890.7
19.5°	850.1	880.1	911.3	897.9	870.3	893.0	920.7	887.2	863.2	865.0	880.2
20°	837.4	869.1	901.1	888.4	859.1	883.0	910.6	876.7	851.9	853.7	868.1
20.5°	824.8	858.4	890.6	878.6	847.5	872.9	900.0	866.0	840.3	842.4	856.5
21°	811.6	846.9	879.8	868.5	835.9	862.2	889.0	855.2	828.4	831.4	844.5



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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°	774.7	810.4	845.7	836.5	801.0	829.4	855.1	822.0	792.7	796.1	807.7
23°	761.7	798.1	833.8	825.3	790.0	817.6	842.8	810.6	780.3	784.5	794.7
23.5°	748.3	785.9	821.5	814.1	778.2	806.0	831.0	799.2	768.0	771.9	781.7
24°	735.2	774.2	809.1	802.4	766.3	794.6	818.7	787.5	755.6	759.4	768.8
24.5°	721.9	762.2	796.6	790.8	754.5	783.7	806.1	775.0	743.3	746.7	755.8
25°	708.3	749.6	783.9	779.4	742.7	771.5	793.0	762.7	730.9	734.2	742.9
25.5°	694.4	736.5	771.0	768.1	730.8	759.5	780.1	750.2	717.8	722.3	729.9
26°	680.3	723.5	757.6	756.1	718.5	747.4	767.4	737.8	704.7	709.1	715.2
26.5°	666.2	710.0	744.1	743.7	705.6	735.2	754.5	725.4	691.0	695.8	701.5
27°	651.9	696.9	730.6	731.4	692.8	724.1	741.6	712.3	677.6	682.5	687.1
27.5°	637.1	683.1	716.7	719.2	679.8	711.6	728.8	699.0	663.9	669.1	672.9
28°	622.2	669.7	703.0	706.6	666.8	698.5	714.6	685.8	650.0	656.0	658.1
28.5°	607.1	655.5	688.5	694.0	653.7	685.6	700.9	672.5	635.9	642.5	644.1
29°	592.1	642.1	674.3	680.7	640.2	672.7	686.6	658.7	622.0	628.6	629.8
29.5°	577.0	627.8	660.2	667.5	626.8	660.2	672.0	645.0	607.4	615.3	615.7
30°	561.8	614.2	646.7	654.9	612.8	646.7	657.4	631.4	593.2	601.5	600.7
30.5°	547.7	599.5	632.6	641.6	598.9	633.6	643.7	617.7	579.3	587.7	586.3
31°	533.8	585.4	618.3	629.0	585.5	620.3	629.6	603.9	566.4	573.6	571.2
31.5°	518.8	570.8	604.1	615.7	572.7	607.8	615.1	589.8	551.9	560.1	556.3
32°	505.7	556.5	590.3	602.4	558.7	593.9	600.6	576.3	539.6	546.9	541.1
32.5°	494.6	541.9	575.9	588.6	545.2	580.9	586.0	562.4	525.8	534.4	526.1
33°	481.7	528.6	561.1	575.9	534.5	567.3	570.9	549.8	512.2	520.8	511.1
33.5°	465.8	515.3	546.5	562.7	521.7	555.5	556.4	536.2	496.8	508.6	496.2
34°	450.1	501.3	532.1	549.8	507.8	541.7	541.5	523.0	480.6	495.8	481.7
34.5°	432.1	488.9	517.5	536.8	493.5	528.0	526.8	511.5	463.7	482.8	467.2
35°	414.3	478.1	503.2	523.8	477.9	517.0	512.2	497.5	445.5	468.8	452.8
35.5°	396.7	466.0	488.3	510.6	461.9	506.3	498.0	484.6	426.9	453.8	439.0
36°	379.7	450.9	473.9	500.3	444.2	492.1	484.0	470.0	408.3	437.4	425.2
36.5°	360.9	436.4	459.9	487.3	426.2	479.7	470.3	454.3	389.3	421.1	412.0
37°	344.1	419.3	445.9	474.5	407.3	464.9	456.4	438.1	371.2	404.1	399.2
37.5°	327.4	402.8	432.3	461.3	389.5	449.9	443.3	421.1	353.7	386.8	386.8
38°	310.5	386.4	418.7	446.6	371.1	433.6	430.5	403.8	336.2	369.6	374.6
38.5°	293.8	370.7	405.8	431.3	353.7	417.4	418.2	385.8	319.6	352.4	363.2
39°	276.7	354.7	393.0	414.9	336.4	400.2	406.3	368.7	302.9	335.9	352.4
39.5°	260.1	338.7	380.7	398.1	319.5	383.1	394.5	351.6	285.8	320.0	342.9
40°	244.2	322.7	369.6	381.2	302.4	365.9	383.4	335.3	268.7	304.6	333.2
40.5°	228.4	306.7	360.2	363.7	285.6	349.4	372.9	319.5	252.0	289.5	323.2
41°	213.6	290.7	350.8	347.7	268.9	332.8	363.8	303.8	235.6	273.9	316.8
41.5°	199.2	274.8	341.4	331.5	252.3	317.1	354.6	288.3	219.6	258.7	308.0
42°	185.0	259.1	332.1	315.5	235.9	301.4	344.4	272.9	204.4	243.4	297.6
42.5°	170.8	243.4	322.7	299.5	219.7	286.3	336.8	257.4	190.1	228.4	287.4
43°	157.3	228.7	313.4	284.3	204.6	270.4	330.3	241.8	175.9	213.7	274.0
43.5°	144.4	214.6	303.6	269.1	190.0	254.7	320.3	226.3	162.3	199.4	260.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	109.1	173.4	270.8	223.8	149.0	209.9	289.0	184.1	124.4	159.9	219.1
45.5°	98.1	160.4	258.9	209.4	136.4	195.7	276.5	171.2	112.6	147.2	205.3
46°	87.8	147.6	246.2	195.4	124.3	182.0	263.2	158.1	102.8	135.0	191.8
46.5°	78.0	135.3	233.4	182.0	112.3	169.0	249.3	145.7	93.0	123.2	178.6
47°	68.7	123.3	220.4	168.9	102.4	155.9	234.5	133.6	83.2	112.4	166.0
47.5°	59.8	112.0	207.2	156.5	92.4	143.4	220.0	122.0	73.5	102.7	153.3
48°	51.7	101.0	193.5	144.4	82.5	131.3	206.2	110.8	63.8	93.0	141.5
48.5°	44.6	91.0	180.0	132.4	72.6	119.8	192.7	101.3	55.8	83.3	130.0
49°	38.3	81.0	166.5	120.8	62.7	108.1	179.6	91.8	48.6	73.8	118.8
49.5°	34.1	71.6	154.1	109.8	54.8	98.2	166.9	82.3	41.8	64.1	108.1
50°	30.1	62.7	141.8	99.4	47.4	88.2	154.9	72.8	35.6	56.2	98.8
50.5°	26.0	54.8	130.5	89.5	40.6	78.3	143.2	63.4	30.2	48.7	89.4
51°	21.9	47.2	119.1	79.7	34.4	68.5	132.1	55.1	25.0	41.9	80.0
51.5°	18.0	40.5	108.6	70.6	28.9	60.0	120.8	47.9	20.5	35.4	70.5
52°	14.9	34.5	98.3	62.2	23.8	52.0	109.8	40.9	17.1	29.7	62.6
52.5°	12.0	30.4	89.0	54.4	19.1	44.6	100.3	34.8	13.8	24.4	55.1
53°	9.2	26.3	79.8	46.9	15.9	37.8	90.8	28.8	10.4	19.9	48.2
53.5°	6.4	22.2	70.9	40.2	12.8	31.6	81.2	23.8	6.9	16.5	41.7
54°	4.4	18.2	62.5	33.9	9.5	26.2	71.7	19.1	3.7	13.2	36.0
54.5°	3.9	15.2	55.2	28.9	6.3	21.2	62.2	15.9	3.4	9.8	30.7
55°	3.6	12.2	48.0	23.9	3.3	17.6	54.8	12.6	3.2	6.5	25.9
55.5°	3.2	9.5	41.7	18.9	3.1	14.1	47.3	9.5	3.1	3.4	21.7
56°	2.9	6.7	35.9	14.0	3.0	10.6	40.6	6.2	3.0	3.1	18.1
56.5°	2.8	4.5	31.6	10.1	2.9	7.1	34.4	3.1	2.9	3.0	14.9
57°	2.7	4.1	27.3	6.7	2.8	3.6	28.9	2.9	2.8	2.9	13.0
57.5°	2.6	3.7	23.2	4.0	2.7	3.0	23.8	2.9	2.7	2.8	11.0
58°	2.4	3.3	18.9	3.6	2.6	2.9	19.4	2.8	2.7	2.7	9.1
58.5°	2.3	3.0	14.6	3.2	2.4	2.8	15.6	2.7	2.6	2.6	7.2
59°	2.3	2.6	11.8	2.9	2.3	2.7	13.5	2.6	2.4	2.4	5.3
59.5°	2.2	2.4	9.6	2.4	2.3	2.6	11.3	2.4	2.3	2.4	4.3
60°	2.1	2.3	7.8	2.3	2.2	2.4	9.2	2.3	2.2	2.3	3.6
60.5°	2.0	2.3	6.3	2.3	2.1	2.3	7.1	2.3	2.2	2.2	3.0
61°	2.0	2.2	5.1	2.2	2.0	2.3	5.0	2.2	2.1	2.1	2.6
61.5°	1.9	2.1	4.2	2.1	2.0	2.2	4.1	2.1	2.0	2.1	2.2
62°	1.9	2.1	3.8	2.1	1.9	2.1	3.4	2.1	1.9	2.0	2.1
62.5°	1.8	2.0	3.4	2.0	1.8	2.1	2.9	2.0	1.9	1.9	2.0
63°	1.7	1.9	2.9	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: P775791

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

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: P775791
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

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: P775791

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
0.5°	1056.4	1055.9	1056.4	1056.9	1057.9	1057.5
1°	1055.1	1055.1	1055.4	1055.8	1057.1	1056.9
1.5°	1053.9	1054.0	1054.2	1054.5	1056.3	1055.9
2°	1052.4	1052.7	1052.6	1053.0	1055.1	1054.7
2.5°	1050.7	1051.1	1051.0	1051.1	1053.3	1053.1
3°	1048.7	1049.3	1049.0	1049.0	1051.7	1051.6
3.5°	1046.9	1047.3	1046.8	1046.8	1049.4	1049.4
4°	1044.9	1045.7	1044.6	1044.3	1047.1	1047.3
4.5°	1043.1	1043.9	1042.5	1041.5	1044.7	1045.2
5°	1041.1	1042.1	1040.4	1038.6	1042.4	1043.5
5.5°	1038.8	1040.3	1038.2	1036.0	1040.1	1041.6
6°	1036.4	1038.4	1035.9	1033.4	1037.9	1039.5
6.5°	1034.0	1036.3	1033.4	1031.0	1035.5	1037.4
7°	1031.3	1033.9	1030.9	1028.5	1032.9	1035.5
7.5°	1028.4	1031.4	1027.9	1025.9	1030.1	1032.8
8°	1025.2	1028.5	1024.7	1023.0	1027.4	1030.5
8.5°	1021.7	1025.1	1021.4	1020.1	1024.3	1027.4
9°	1017.6	1021.1	1017.7	1017.1	1021.1	1023.9
9.5°	1013.4	1016.9	1013.7	1014.1	1017.4	1020.1
10°	1008.7	1012.5	1009.3	1010.8	1013.7	1016.3
10.5°	1003.5	1007.1	1004.4	1007.3	1009.7	1012.1
11°	998.0	1001.5	999.3	1003.6	1005.5	1007.1
11.5°	992.1	995.1	993.8	999.5	1000.9	1001.4
12°	985.7	988.1	987.6	995.2	995.8	995.4
12.5°	978.7	980.7	981.0	990.3	990.0	988.7
13°	971.4	973.0	973.7	985.3	983.8	981.4
13.5°	963.6	964.7	966.3	979.9	977.3	973.4
14°	955.6	955.8	958.4	974.0	970.2	965.3
14.5°	947.3	946.6	950.2	967.7	962.8	956.7
15°	938.5	937.0	941.4	960.7	954.7	947.5
15.5°	929.6	927.1	932.2	953.2	946.3	937.8
16°	920.1	916.9	922.8	945.2	937.5	927.9
16.5°	910.4	906.1	913.1	936.7	928.4	917.6
17°	900.5	895.3	903.4	927.8	919.2	907.3
17.5°	890.4	884.2	893.1	918.1	909.2	896.2
18°	879.8	873.0	882.4	908.3	899.2	885.4
18.5°	869.7	861.2	871.6	898.0	888.9	874.2
19°	858.6	849.1	860.8	887.3	878.3	862.4
19.5°	847.5	836.7	849.6	876.2	867.5	850.1
20°	835.7	824.2	838.3	864.8	856.4	837.4
20.5°	824.3	811.1	825.9	852.2	845.2	824.8
21°	812.2	798.5	814.1	840.6	833.3	811.6



TEST NUMBER: P775791

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	775.9	760.0	776.5	802.2	795.8	774.7
23°	763.8	746.9	764.3	789.9	783.0	761.7
23.5°	751.5	733.6	752.1	776.3	770.6	748.3
24°	739.3	719.8	738.7	762.8	758.7	735.2
24.5°	727.1	705.9	725.3	748.5	746.3	721.9
25°	713.5	691.9	712.0	735.2	732.8	708.3
25.5°	699.6	677.8	698.2	720.9	719.5	694.4
26°	685.8	663.2	684.4	706.4	705.8	680.3
26.5°	672.1	648.9	670.6	690.8	692.6	666.2
27°	657.9	633.9	656.9	676.9	678.3	651.9
27.5°	643.5	618.8	642.3	662.0	664.4	637.1
28°	629.2	603.6	627.9	646.8	650.0	622.2
28.5°	614.6	588.3	613.6	632.1	635.9	607.1
29°	599.8	572.9	598.9	617.6	621.4	592.1
29.5°	585.0	558.0	584.2	603.5	607.4	577.0
30°	570.2	543.7	569.3	589.1	592.6	561.8
30.5°	555.6	529.9	554.7	574.5	578.0	547.7
31°	540.9	514.9	540.1	559.6	563.2	533.8
31.5°	527.2	501.9	525.6	544.4	548.8	518.8
32°	513.5	490.2	512.1	529.2	534.1	505.7
32.5°	499.3	474.8	498.6	514.1	519.7	494.6
33°	486.8	460.1	484.1	499.2	506.5	481.7
33.5°	475.3	442.1	472.4	483.9	492.7	465.8
34°	460.5	423.8	460.6	468.8	478.8	450.1
34.5°	446.8	406.0	445.4	453.8	467.4	432.1
35°	430.0	388.5	431.0	439.1	456.1	414.3
35.5°	413.1	371.8	413.9	424.7	441.9	396.7
36°	396.3	354.5	397.0	410.9	428.2	379.7
36.5°	380.0	337.1	380.8	397.0	412.1	360.9
37°	363.8	319.6	364.2	384.0	395.5	344.1
37.5°	347.9	302.3	348.5	371.3	378.7	327.4
38°	332.0	284.8	332.7	360.4	360.8	310.5
38.5°	315.6	267.8	317.0	349.5	346.0	293.8
39°	299.1	251.2	301.2	338.6	331.1	276.7
39.5°	282.7	235.6	285.3	327.7	316.3	260.1
40°	266.5	220.5	269.0	316.8	301.5	244.2
40.5°	251.1	206.0	253.5	307.7	285.5	228.4
41°	236.1	191.3	238.1	299.8	269.8	213.6
41.5°	221.6	177.2	223.9	291.2	254.1	199.2
42°	207.4	163.0	209.8	283.2	239.1	185.0
42.5°	193.5	150.5	196.6	274.8	224.8	170.8
43°	180.0	137.9	183.2	262.1	211.1	157.3
43.5°	166.9	126.0	170.1	250.0	197.5	144.4



TEST NUMBER: P775791

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	129.7	93.2	133.0	209.7	158.9	109.1
45.5°	118.0	83.2	121.5	197.5	146.5	98.1
46°	107.0	73.8	110.7	185.3	134.7	87.8
46.5°	97.2	64.6	100.4	173.1	123.1	78.0
47°	87.4	56.2	90.5	161.0	112.2	68.7
47.5°	77.7	48.5	80.7	149.9	101.8	59.8
48°	67.9	41.7	71.7	138.4	91.7	51.7
48.5°	59.5	35.8	63.4	127.5	81.9	44.6
49°	51.5	31.9	55.4	117.1	73.0	38.3
49.5°	44.3	28.1	48.2	107.1	64.4	34.1
50°	38.1	24.2	41.4	97.5	56.2	30.1
50.5°	32.5	20.3	35.4	88.5	48.6	26.0
51°	27.7	16.5	31.4	80.2	42.0	21.9
51.5°	23.6	13.6	27.4	72.2	36.1	18.0
52°	20.0	10.7	23.5	64.7	32.0	14.9
52.5°	16.8	8.0	19.4	57.7	28.0	12.0
53°	14.2	5.3	15.5	51.0	24.0	9.2
53.5°	11.5	3.5	12.5	44.8	19.9	6.4
54°	8.9	3.2	9.7	39.1	15.9	4.4
54.5°	6.2	3.0	7.0	33.9	13.0	3.9
55°	3.7	2.8	4.6	29.1	10.1	3.6
55.5°	2.8	2.6	4.1	25.6	7.3	3.2
56°	2.7	2.4	3.7	22.1	4.9	2.9
56.5°	2.6	2.3	3.2	18.8	3.2	2.8
57°	2.4	2.2	2.7	15.3	3.0	2.7
57.5°	2.3	2.1	2.1	11.8	2.9	2.6
58°	2.2	2.1	2.1	9.5	2.7	2.4
58.5°	2.2	2.0	2.0	7.5	2.4	2.3
59°	2.1	1.9	2.0	6.0	2.3	2.3
59.5°	2.0	1.9	1.9	4.9	2.3	2.2
60°	2.0	1.8	1.8	3.9	2.2	2.1
60.5°	1.9	1.7	1.8	3.5	2.1	2.0
61°	1.8	1.7	1.7	3.0	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: P775791

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

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: P775791

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-3000K

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

Signify Classified - Internal
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°	799.2	835.0	868.6	858.1	824.2	851.3	878.0	844.4	816.7	820.2	832.8
22°	786.9	822.9	857.1	847.4	812.4	840.4	866.7	833.5	805.3	807.9	820.2



44°	131.9	200.9	295.4	254.0	175.6	239.4	311.3	211.7	149.2	185.8	246.9
44.5°	120.2	186.9	283.2	238.7	162.3	224.8	300.8	197.8	136.5	172.6	233.0



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°	800.1	786.1	801.5	828.3	821.0	799.2
22°	788.2	773.5	789.3	815.7	808.2	786.9



44°	154.0	114.3	157.0	236.8	184.6	131.9
44.5°	141.3	103.6	144.9	223.3	171.6	120.2

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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)