

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: P775745

Luminaire Tested: HCDJBL510CSD-HCD62TRH-1000lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B056)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD62TRH-1000lm-2700K
Description: 6 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

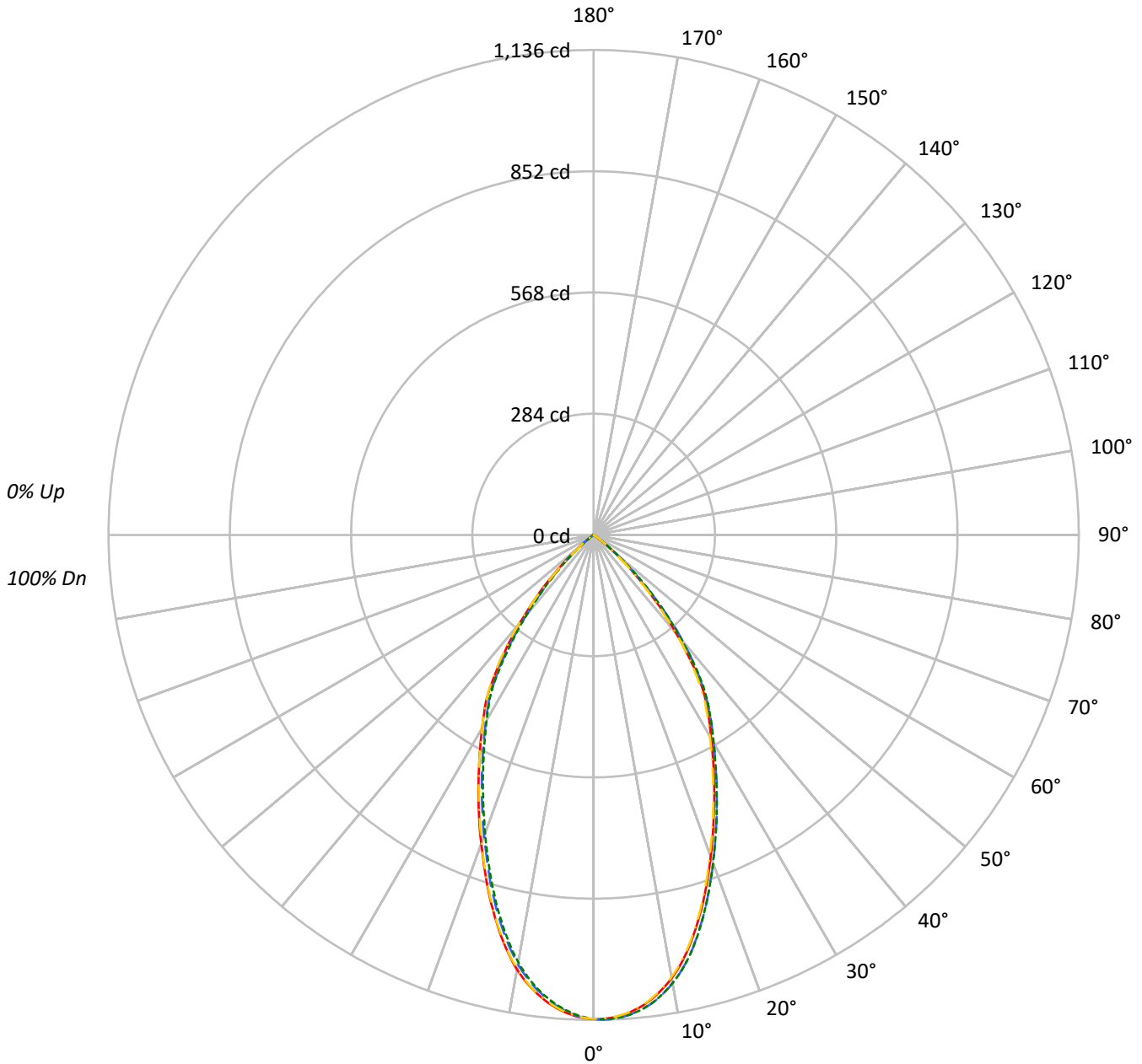
Lumens per Lamp: N/A
Luminaire Lumens: 1055.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.82 / 0.91
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	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	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86			86
3	102	95	90	86	100	93	89	85	91	87	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73			73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68			68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	62155	62155	62155	62155
5°	61435	61782	60896	60444
10°	58661	59323	57531	56573
15°	53360	54319	51669	50324
20°	46758	47697	44891	43363
25°	40430	41289	38615	37067
30°	34879	35543	33094	31707
35°	29975	30678	27318	25872
40°	21598	22900	19172	17490
45°	12792	14288	10908	9474
50°	5305	6200	3744	3121
55°	898	1185	898	593
60°	373	351	362	296
65°	221	208	221	182
70°	144	144	144	128
75°	106	85	106	85
80°	63	63	63	63
85°	0	63	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 15203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	9.8
10°-20°	256.8	24.3
20°-30°	298.7	28.3
30°-40°	259.8	24.6
40°-50°	119.5	11.3
50°-60°	14.1	1.3
60°-70°	1.7	0.2
70°-80°	0.5	0.0
80°-90°	0.1	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°	659.4	62.5
0°-40°	919.1	87.1
0°-60°	1052.7	99.8
0°-90°	1055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1134	1134	1134	1134	1134	
5°	1116	1123	1107	1098	1116	105
15°	940	957	910	887	940	261
25°	668	683	638	613	668	307
35°	448	458	408	387	448	272
45°	165	184	141	122	165	130
55°	9	12	9	6	9	16
65°	2	2	2	1	2	2
75°	0	0	0	0	0	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°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
0.5°	1134.3	1135.1	1135.2	1134.3	1134.5	1133.9	1133.5	1133.7	1133.5	1133.6	1133.4
1°	1134.1	1135.2	1135.6	1135.1	1134.8	1133.9	1133.4	1133.0	1132.4	1132.3	1131.9
1.5°	1133.2	1134.8	1135.6	1135.4	1134.8	1133.6	1132.7	1131.8	1130.8	1130.3	1129.7
2°	1132.2	1134.2	1135.1	1135.3	1134.3	1133.0	1131.7	1130.1	1128.8	1127.9	1126.9
2.5°	1130.6	1133.0	1134.1	1134.8	1133.5	1131.7	1130.0	1127.9	1126.3	1125.0	1123.7
3°	1128.6	1131.4	1132.6	1134.0	1132.1	1130.2	1127.9	1125.5	1123.2	1121.6	1120.0
3.5°	1126.3	1129.3	1130.9	1132.7	1130.5	1128.3	1125.4	1122.6	1119.8	1117.6	1116.0
4°	1123.4	1126.8	1128.6	1130.9	1128.5	1125.8	1122.6	1119.0	1115.8	1113.3	1111.5
4.5°	1120.1	1123.9	1126.1	1128.6	1125.9	1122.8	1119.2	1115.2	1111.4	1108.5	1106.5
5°	1116.4	1120.6	1122.8	1126.1	1122.7	1119.5	1115.3	1110.9	1106.6	1103.2	1100.8
5.5°	1112.4	1116.9	1119.4	1122.9	1119.3	1115.5	1111.0	1106.3	1101.5	1097.6	1095.0
6°	1107.7	1112.6	1115.6	1119.5	1115.3	1111.2	1106.4	1100.7	1095.6	1091.3	1088.5
6.5°	1102.8	1108.2	1111.2	1115.5	1110.8	1106.5	1101.2	1095.0	1089.5	1085.1	1081.8
7°	1097.1	1102.9	1106.2	1111.2	1106.1	1101.4	1095.5	1088.9	1083.0	1078.3	1074.8
7.5°	1090.9	1097.3	1100.8	1106.2	1100.6	1095.3	1089.2	1082.6	1075.8	1070.7	1067.1
8°	1084.4	1090.9	1094.6	1100.8	1094.7	1088.8	1082.6	1075.3	1068.4	1062.9	1058.9
8.5°	1077.5	1084.5	1088.2	1094.9	1088.0	1082.4	1075.5	1067.6	1060.4	1054.6	1050.4
9°	1070.0	1077.4	1081.1	1088.1	1081.1	1075.2	1068.0	1059.6	1052.0	1045.7	1041.3
9.5°	1062.1	1069.7	1073.9	1081.1	1073.7	1067.4	1059.8	1051.5	1043.0	1036.5	1031.7
10°	1053.8	1061.5	1065.8	1073.6	1065.7	1059.2	1051.4	1042.0	1033.5	1026.7	1021.4
10.5°	1044.7	1053.3	1057.5	1065.7	1057.6	1050.8	1042.1	1032.5	1023.2	1015.6	1010.2
11°	1035.3	1044.1	1048.5	1057.4	1048.5	1041.4	1032.6	1022.1	1012.3	1003.7	998.4
11.5°	1025.1	1034.1	1038.8	1048.4	1039.0	1031.6	1022.3	1011.3	1000.7	992.1	986.4
12°	1014.1	1023.8	1028.4	1038.6	1028.8	1021.0	1011.1	999.5	988.9	980.1	974.0
12.5°	1002.8	1012.6	1017.7	1028.2	1018.2	1009.9	999.6	987.8	976.4	967.3	961.1
13°	991.1	1001.2	1006.6	1017.4	1006.9	998.5	987.9	975.6	963.9	954.3	947.9
13.5°	978.9	989.3	995.0	1006.2	995.2	986.3	975.6	963.0	950.9	941.0	934.2
14°	966.3	977.1	982.6	994.8	982.7	974.1	962.9	949.9	937.6	927.9	920.9
14.5°	953.5	964.4	970.2	981.9	970.0	961.0	949.7	936.6	924.3	913.7	907.0
15°	940.2	951.5	956.9	969.8	957.1	947.8	936.5	923.2	910.4	900.1	893.0
15.5°	926.7	938.1	943.5	956.7	944.0	934.5	923.2	909.6	896.6	886.1	878.7
16°	913.2	924.7	930.2	943.3	930.3	920.9	909.7	895.6	882.6	872.1	864.7
16.5°	899.7	911.2	916.9	929.9	916.6	907.3	896.0	881.9	868.9	857.8	850.6
17°	886.1	897.4	902.8	916.3	902.9	893.4	881.6	867.8	854.7	843.5	836.1
17.5°	871.8	883.4	888.8	902.2	888.7	878.9	867.6	854.0	840.4	829.4	821.4
18°	857.8	869.2	874.7	888.2	874.5	864.8	853.5	839.8	826.0	814.8	806.6
18.5°	843.8	855.3	860.5	873.8	860.2	850.8	839.4	825.1	811.8	800.3	792.1
19°	829.6	841.3	846.0	859.4	846.1	836.7	824.9	810.9	797.2	785.7	777.6
19.5°	815.7	827.1	832.0	845.1	831.8	822.5	810.5	797.1	782.9	772.1	764.1
20°	801.5	812.8	817.5	830.9	817.6	808.1	796.6	782.6	769.5	758.6	750.5
20.5°	787.4	799.0	803.6	816.4	803.2	793.8	782.4	769.2	756.2	745.1	736.9
21°	773.5	785.1	789.9	802.7	789.1	779.8	769.0	755.9	742.9	731.6	723.3



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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°	733.0	743.9	748.3	760.3	748.6	739.7	729.2	716.0	702.6	691.3	682.9
23°	719.8	730.3	734.9	746.7	735.2	726.3	715.9	702.5	689.6	677.9	669.9
23.5°	706.9	717.1	721.6	733.2	721.9	712.9	702.3	689.5	676.4	665.0	657.0
24°	693.7	704.2	708.3	719.6	708.5	699.7	689.1	676.6	663.6	652.2	644.0
24.5°	681.2	691.3	695.1	706.3	695.5	686.1	676.1	663.8	650.8	639.7	631.5
25°	668.4	678.5	682.3	693.5	682.6	673.3	663.1	650.9	638.4	627.2	619.1
25.5°	655.9	665.7	669.5	680.7	669.5	660.9	650.5	638.6	626.2	614.8	607.1
26°	643.6	653.7	657.0	667.7	656.9	648.6	638.2	626.4	614.0	602.8	595.1
26.5°	631.6	640.9	644.7	654.7	644.5	635.9	625.9	614.1	601.8	590.8	582.7
27°	619.4	628.7	632.2	642.4	632.1	623.3	613.6	602.1	589.9	579.0	570.9
27.5°	607.4	616.7	620.0	630.2	619.8	611.8	601.7	590.1	578.1	567.3	559.3
28°	595.7	605.2	608.0	618.1	607.6	599.7	589.7	578.6	566.5	555.6	548.0
28.5°	584.0	593.5	596.2	606.1	595.9	587.7	578.1	566.8	554.9	544.3	536.7
29°	572.8	581.7	584.6	594.0	584.2	576.2	566.9	555.6	544.1	533.4	525.7
29.5°	561.9	570.5	572.9	582.5	572.8	564.9	555.6	544.7	533.2	522.8	515.2
30°	551.0	559.7	562.1	571.3	561.5	554.0	544.7	534.0	522.8	512.2	504.9
30.5°	540.4	548.9	551.4	560.3	550.7	543.1	534.1	523.3	512.3	501.9	494.8
31°	530.1	538.4	540.8	549.3	540.3	532.8	523.6	513.1	502.0	491.8	484.6
31.5°	519.7	527.9	530.3	538.8	529.9	522.6	513.4	503.1	492.1	482.0	475.0
32°	510.0	518.2	520.3	528.4	519.9	512.3	503.7	493.4	482.3	472.2	465.0
32.5°	500.3	508.2	510.3	518.2	509.7	502.4	493.6	483.2	472.5	462.2	455.4
33°	490.6	498.4	500.5	508.3	500.2	492.6	483.7	472.9	461.8	451.3	444.2
33.5°	480.4	488.2	490.1	498.3	490.1	482.8	473.1	461.1	449.9	438.7	431.0
34°	470.3	477.8	478.9	488.2	480.2	472.5	461.8	448.8	437.0	425.6	418.0
34.5°	458.9	466.4	466.7	477.3	469.7	461.6	449.6	436.0	422.6	412.1	403.8
35°	447.9	454.4	454.6	465.2	458.4	450.5	437.4	423.3	408.2	398.3	390.0
35.5°	435.7	442.0	442.5	453.4	446.9	439.0	425.0	409.9	393.1	383.0	376.5
36°	422.7	429.1	430.2	441.1	434.9	426.7	412.6	396.4	379.0	367.8	362.8
36.5°	408.4	415.8	417.9	429.1	421.7	413.3	399.5	382.5	365.0	352.8	348.1
37°	392.9	402.2	405.5	416.8	408.2	399.1	386.1	368.5	351.5	338.1	333.9
37.5°	376.8	388.2	392.8	404.2	393.9	384.8	372.4	353.8	337.9	323.6	319.0
38°	361.1	374.4	379.5	391.3	379.2	370.3	358.4	339.9	324.5	309.4	304.4
38.5°	346.3	359.8	365.9	378.4	364.0	354.7	344.0	325.9	310.5	295.8	288.9
39°	331.5	344.9	352.1	365.3	349.0	338.9	329.7	312.2	296.7	282.7	274.8
39.5°	316.6	330.0	338.3	351.2	334.5	323.8	314.7	298.4	282.4	268.7	260.0
40°	301.8	315.1	324.5	337.2	320.0	309.4	299.6	284.8	267.9	254.6	246.1
40.5°	287.0	300.3	310.7	323.2	305.6	294.9	284.2	271.2	253.6	241.2	231.7
41°	272.9	285.4	297.0	309.2	291.8	280.8	268.9	257.4	240.4	227.8	218.0
41.5°	258.3	270.9	282.5	295.2	278.0	266.1	253.8	243.5	227.3	214.6	204.1
42°	244.5	257.2	267.9	280.5	264.5	252.2	239.2	229.4	214.6	201.5	190.7
42.5°	230.3	243.8	253.4	266.0	250.6	238.6	225.0	215.5	202.3	188.9	178.0
43°	216.6	230.2	238.7	251.8	237.0	225.0	211.3	201.9	189.9	177.2	166.0
43.5°	202.8	216.1	223.9	237.6	223.5	211.1	197.7	188.3	177.3	164.8	153.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	165.0	177.0	182.1	196.1	184.3	172.1	159.8	149.2	140.7	130.1	121.3
45.5°	152.7	164.4	168.6	182.9	171.8	159.8	147.5	137.1	129.1	119.0	111.2
46°	141.3	152.0	155.7	169.7	160.0	147.6	136.0	125.4	118.0	108.6	101.8
46.5°	129.9	140.0	143.1	156.9	147.5	135.9	124.7	114.0	107.2	99.6	93.5
47°	118.9	128.5	130.7	144.1	135.4	125.3	113.8	104.3	97.3	90.7	85.3
47.5°	108.2	117.3	119.1	132.1	124.0	114.7	103.5	94.7	87.5	81.7	77.0
48°	98.2	106.3	108.0	120.1	113.2	104.3	94.3	85.1	77.6	72.8	68.7
48.5°	88.6	95.4	97.5	108.6	103.1	95.0	85.1	75.5	67.7	63.8	61.6
49°	79.5	85.3	87.5	98.2	92.9	85.7	76.0	65.9	59.2	56.5	54.9
49.5°	70.8	75.5	77.8	87.6	82.8	76.4	66.8	58.1	51.1	49.3	48.6
50°	62.2	66.2	68.7	77.9	72.7	67.2	59.0	50.8	43.9	43.1	42.8
50.5°	54.3	57.5	60.2	68.5	62.6	59.0	51.4	44.2	37.6	37.2	37.3
51°	46.7	49.5	52.3	60.0	54.2	51.0	44.7	38.1	32.1	32.1	32.3
51.5°	39.7	42.2	44.8	51.5	46.6	43.9	38.7	32.8	27.6	27.5	27.9
52°	33.2	35.8	37.9	44.1	39.5	37.1	33.1	27.8	23.6	23.4	23.8
52.5°	28.6	31.2	33.0	37.3	32.9	31.1	28.0	23.4	20.1	19.7	19.9
53°	24.0	26.6	28.1	32.5	27.2	25.7	23.3	19.6	17.1	16.5	16.5
53.5°	19.4	22.1	23.2	27.7	22.2	20.9	19.3	16.3	14.4	13.7	13.5
54°	14.9	17.5	18.3	22.9	17.9	16.9	15.8	13.4	12.0	12.1	11.9
54.5°	11.8	13.0	13.4	18.1	14.3	13.5	13.7	11.8	10.7	10.5	10.2
55°	9.4	10.2	10.5	13.3	12.4	11.8	11.6	10.2	9.4	8.8	8.5
55.5°	7.5	8.0	8.1	10.4	10.6	10.1	9.6	8.6	8.1	7.2	6.9
56°	6.3	6.5	6.4	8.0	8.7	8.4	7.6	7.1	6.8	5.6	5.2
56.5°	5.6	5.7	5.6	6.3	6.8	6.7	5.6	5.5	5.5	5.1	4.8
57°	5.2	5.2	5.1	5.4	5.0	5.0	5.1	5.1	5.1	4.8	4.5
57.5°	4.9	4.9	4.7	4.9	4.6	4.6	4.7	4.8	4.7	4.5	4.2
58°	4.5	4.5	4.4	4.5	4.3	4.3	4.4	4.5	4.4	4.2	3.9
58.5°	4.2	4.2	4.0	4.2	4.0	4.0	4.1	4.2	4.1	3.9	3.6
59°	3.9	3.9	3.8	3.9	3.7	3.7	3.8	3.9	3.8	3.6	3.4
59.5°	3.7	3.6	3.5	3.6	3.4	3.4	3.5	3.6	3.6	3.4	3.1
60°	3.4	3.4	3.3	3.4	3.2	3.2	3.3	3.3	3.3	3.1	2.9
60.5°	3.2	3.1	3.0	3.1	3.0	3.0	3.0	3.1	3.1	2.9	2.7
61°	2.9	2.9	2.8	2.9	2.7	2.8	2.8	2.9	2.9	2.7	2.5
61.5°	2.7	2.7	2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.5	2.4
62°	2.5	2.5	2.4	2.5	2.4	2.4	2.5	2.5	2.5	2.4	2.2
62.5°	2.4	2.4	2.2	2.3	2.2	2.2	2.3	2.4	2.4	2.2	2.1
63°	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.2	2.2	2.1	1.9
63.5°	2.1	2.1	2.0	2.0	1.9	2.0	2.0	2.1	2.1	2.0	1.8
64°	2.0	1.9	1.8	1.9	1.8	1.8	1.9	2.0	2.0	1.9	1.7
64.5°	1.8	1.8	1.7	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.6
65°	1.7	1.7	1.6	1.7	1.6	1.6	1.7	1.7	1.7	1.6	1.5
65.5°	1.6	1.6	1.5	1.6	1.5	1.5	1.6	1.6	1.6	1.5	1.4
66°	1.5	1.5	1.4	1.5	1.4	1.4	1.5	1.5	1.5	1.4	1.3



TEST NUMBER: P775745

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-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	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.1
68°	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1
68.5°	1.1	1.1	1.0	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.0
69°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	0.9
69.5°	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8
70.5°	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8
71°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
71.5°	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7
72°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
72.5°	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6
73°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
73.5°	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
75.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4
76°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
76.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
77°	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
82°	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
83°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
83.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
84°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
84.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
85°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.1	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: P775745
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-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: P775745

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
0.5°	1131.4	1132.2	1132.2	1132.7	1133.5	1134.3
1°	1129.3	1130.5	1130.7	1131.6	1132.7	1134.1
1.5°	1126.6	1128.0	1128.5	1129.8	1131.6	1133.2
2°	1123.3	1125.3	1126.1	1127.8	1130.0	1132.2
2.5°	1119.6	1121.9	1122.9	1125.3	1128.1	1130.6
3°	1115.4	1118.1	1119.5	1122.2	1125.6	1128.6
3.5°	1110.7	1114.1	1115.6	1118.8	1122.6	1126.3
4°	1105.7	1109.1	1111.3	1114.8	1119.2	1123.4
4.5°	1100.1	1104.1	1106.4	1110.4	1115.4	1120.1
5°	1094.1	1098.4	1101.1	1105.5	1111.2	1116.4
5.5°	1087.5	1092.4	1095.3	1100.2	1106.6	1112.4
6°	1080.8	1086.1	1089.2	1094.5	1101.6	1107.7
6.5°	1073.5	1079.0	1082.7	1088.4	1096.0	1102.8
7°	1065.9	1071.7	1075.7	1081.9	1089.8	1097.1
7.5°	1057.9	1063.8	1068.1	1074.7	1083.2	1090.9
8°	1049.0	1055.5	1060.0	1067.2	1076.1	1084.4
8.5°	1039.7	1046.7	1051.7	1059.0	1068.7	1077.5
9°	1030.0	1037.1	1042.4	1050.4	1060.5	1070.0
9.5°	1019.6	1027.3	1032.8	1041.4	1052.1	1062.1
10°	1008.5	1016.3	1022.1	1031.8	1043.4	1053.8
10.5°	996.5	1005.2	1011.4	1021.5	1033.8	1044.7
11°	984.0	993.6	1000.0	1010.3	1023.6	1035.3
11.5°	971.7	980.8	988.4	998.9	1012.6	1025.1
12°	958.8	968.3	975.4	987.2	1001.2	1014.1
12.5°	945.6	955.1	962.6	974.8	989.4	1002.8
13°	932.2	941.9	950.1	962.4	977.5	991.1
13.5°	918.5	928.3	936.9	949.1	964.7	978.9
14°	904.7	914.9	923.0	935.7	951.9	966.3
14.5°	890.4	901.0	909.2	922.7	938.6	953.5
15°	876.6	886.7	895.3	908.8	925.3	940.2
15.5°	862.2	872.4	881.4	895.0	911.7	926.7
16°	847.7	858.1	867.1	880.4	897.9	913.2
16.5°	833.4	843.9	853.0	866.8	884.0	899.7
17°	818.8	829.6	838.6	852.7	870.3	886.1
17.5°	804.5	815.0	824.2	838.4	856.2	871.8
18°	789.3	800.3	809.4	823.7	842.0	857.8
18.5°	775.1	785.5	794.9	809.2	827.8	843.8
19°	761.1	771.2	780.3	795.5	813.5	829.6
19.5°	747.1	757.3	766.5	781.6	799.7	815.7
20°	733.1	743.3	753.0	767.5	785.7	801.5
20.5°	719.2	729.7	739.3	753.7	771.9	787.4
21°	706.9	715.6	725.3	739.8	757.8	773.5



TEST NUMBER: P775745

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	667.3	675.8	685.7	700.4	717.7	733.0
23°	654.4	662.9	672.4	687.0	704.5	719.8
23.5°	641.7	650.1	659.9	674.4	691.7	706.9
24°	629.5	637.7	647.4	661.4	679.0	693.7
24.5°	616.8	625.3	634.8	649.2	666.0	681.2
25°	604.9	612.8	622.5	636.3	653.6	668.4
25.5°	592.6	600.9	610.6	624.4	641.3	655.9
26°	580.7	589.0	598.7	612.4	629.2	643.6
26.5°	569.0	577.4	587.0	600.6	617.1	631.6
27°	557.3	565.6	575.2	588.9	605.2	619.4
27.5°	545.8	554.3	563.5	577.2	593.4	607.4
28°	534.8	542.9	552.2	565.3	581.8	595.7
28.5°	524.1	531.9	541.3	554.3	570.3	584.0
29°	513.7	521.4	530.7	543.7	559.3	572.8
29.5°	503.0	511.0	519.9	532.9	548.3	561.9
30°	492.8	500.9	509.8	522.5	537.9	551.0
30.5°	483.0	490.9	499.7	512.1	527.5	540.4
31°	473.4	481.1	490.1	502.4	517.3	530.1
31.5°	463.5	471.4	480.5	492.7	507.1	519.7
32°	453.6	461.7	470.6	482.9	497.4	510.0
32.5°	442.8	452.1	460.9	473.4	487.9	500.3
33°	430.7	440.8	450.1	462.6	478.3	490.6
33.5°	417.5	428.3	438.1	450.9	467.6	480.4
34°	403.2	415.1	425.2	438.5	456.0	470.3
34.5°	389.0	400.9	411.1	426.4	444.2	458.9
35°	375.1	386.6	396.8	413.2	431.8	447.9
35.5°	361.0	371.5	382.5	400.3	419.0	435.7
36°	346.7	354.9	368.6	386.8	405.7	422.7
36.5°	331.8	340.9	359.7	373.0	392.2	408.4
37°	317.0	327.1	345.0	359.2	378.4	392.9
37.5°	302.5	313.3	330.2	344.8	363.8	376.8
38°	287.4	299.4	315.4	330.4	348.6	361.1
38.5°	272.8	285.9	300.6	316.0	333.4	346.3
39°	258.7	272.1	286.7	301.6	318.2	331.5
39.5°	245.0	258.2	272.2	287.2	303.0	316.6
40°	231.2	244.4	257.7	273.0	287.7	301.8
40.5°	218.0	230.9	243.5	258.9	272.4	287.0
41°	204.8	217.6	229.5	244.9	257.0	272.9
41.5°	191.4	204.3	216.1	230.5	241.7	258.3
42°	178.3	192.1	203.1	217.0	227.5	244.5
42.5°	166.3	179.4	190.7	202.9	213.3	230.3
43°	153.9	168.1	178.3	189.1	200.2	216.6
43.5°	142.4	156.1	165.8	175.0	186.7	202.8



TEST NUMBER: P775745

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	110.9	122.2	129.6	136.3	149.9	165.0
45.5°	101.5	111.6	118.2	124.7	138.2	152.7
46°	93.1	101.1	107.2	113.5	127.2	141.3
46.5°	84.7	91.0	96.5	103.0	116.5	129.9
47°	76.3	81.7	86.5	93.1	106.2	118.9
47.5°	67.9	72.9	77.0	83.6	96.2	108.2
48°	60.8	64.4	68.1	74.7	86.7	98.2
48.5°	54.1	56.6	59.7	66.4	77.6	88.6
49°	47.5	49.4	51.7	58.8	68.9	79.5
49.5°	41.7	42.8	44.5	51.7	60.9	70.8
50°	36.4	36.6	38.1	45.0	53.3	62.2
50.5°	31.4	32.6	33.9	39.0	46.3	54.3
51°	26.9	28.5	29.7	33.5	40.0	46.7
51.5°	22.7	24.5	25.5	29.3	34.1	39.7
52°	19.1	20.5	21.3	25.2	29.7	33.2
52.5°	15.8	16.4	17.1	21.0	25.3	28.6
53°	12.9	13.7	14.4	16.9	21.0	24.0
53.5°	11.3	11.2	11.9	13.9	16.7	19.4
54°	9.8	9.2	9.8	11.2	13.4	14.9
54.5°	8.2	7.5	8.0	9.0	10.7	11.8
55°	6.6	6.2	6.5	7.2	8.5	9.4
55.5°	5.0	5.3	5.5	6.0	6.8	7.5
56°	4.6	4.8	5.0	5.3	5.9	6.3
56.5°	4.3	4.5	4.6	4.9	5.3	5.6
57°	4.0	4.2	4.3	4.6	4.9	5.2
57.5°	3.8	3.9	4.0	4.2	4.6	4.9
58°	3.5	3.7	3.8	3.9	4.3	4.5
58.5°	3.2	3.4	3.5	3.7	4.0	4.2
59°	3.0	3.2	3.3	3.4	3.7	3.9
59.5°	2.8	2.9	3.0	3.2	3.5	3.7
60°	2.6	2.7	2.8	2.9	3.2	3.4
60.5°	2.4	2.5	2.6	2.7	3.0	3.2
61°	2.3	2.4	2.4	2.5	2.7	2.9
61.5°	2.1	2.2	2.3	2.4	2.6	2.7
62°	2.0	2.1	2.1	2.2	2.4	2.5
62.5°	1.9	1.9	2.0	2.1	2.2	2.4
63°	1.8	1.8	1.9	1.9	2.1	2.2
63.5°	1.7	1.7	1.7	1.8	2.0	2.1
64°	1.6	1.6	1.6	1.7	1.9	2.0
64.5°	1.5	1.5	1.5	1.6	1.7	1.8
65°	1.4	1.4	1.4	1.5	1.6	1.7
65.5°	1.3	1.3	1.4	1.4	1.5	1.6
66°	1.2	1.3	1.3	1.3	1.4	1.5



TEST NUMBER: P775745

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	1.0	1.1	1.1	1.2	1.3
68°	1.0	1.0	1.0	1.0	1.1	1.2
68.5°	0.9	0.9	0.9	1.0	1.1	1.1
69°	0.8	0.9	0.9	0.9	1.0	1.0
69.5°	0.8	0.8	0.8	0.9	0.9	1.0
70°	0.7	0.8	0.8	0.8	0.9	0.9
70.5°	0.7	0.7	0.7	0.8	0.8	0.9
71°	0.7	0.7	0.7	0.7	0.8	0.8
71.5°	0.6	0.6	0.6	0.7	0.7	0.8
72°	0.6	0.6	0.6	0.6	0.7	0.7
72.5°	0.5	0.6	0.6	0.6	0.6	0.7
73°	0.5	0.5	0.5	0.6	0.6	0.6
73.5°	0.5	0.5	0.5	0.5	0.6	0.6
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.4	0.4	0.4	0.5	0.5	0.5
75°	0.4	0.4	0.4	0.4	0.4	0.5
75.5°	0.4	0.4	0.4	0.4	0.4	0.4
76°	0.3	0.4	0.4	0.4	0.4	0.4
76.5°	0.3	0.3	0.3	0.3	0.4	0.4
77°	0.3	0.3	0.3	0.3	0.3	0.4
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.2	0.2	0.2	0.2	0.3	0.3
79°	0.2	0.2	0.2	0.2	0.2	0.3
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.1	0.2	0.2	0.2	0.2	0.2
81.5°	0.1	0.1	0.1	0.1	0.1	0.2
82°	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.1	0.1
83°	0.1	0.1	0.1	0.1	0.1	0.1
83.5°	0.1	0.1	0.1	0.1	0.1	0.1
84°	0.1	0.1	0.1	0.1	0.1	0.1
84.5°	0.1	0.1	0.1	0.1	0.0	0.1
85°	0.0	0.0	0.1	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: P775745
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-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

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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Scaled Data Report





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

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21.5°	760.0	770.7	775.9	788.9	775.3	766.4	755.7	742.6	729.5	718.1	709.8
22°	746.2	757.0	761.7	774.5	762.0	753.1	742.5	729.3	716.2	704.4	696.3



44°	190.0	202.8	210.0	223.5	210.1	197.2	184.6	174.9	164.8	152.9	142.5
44.5°	177.6	189.8	195.9	209.5	197.0	184.5	172.1	161.7	152.5	141.1	131.6



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



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°	693.8	702.3	712.2	726.7	744.4	760.0
22°	680.4	688.9	698.5	713.1	731.1	746.2



44°	131.2	144.5	153.4	161.8	173.9	190.0
44.5°	120.9	133.1	141.4	148.4	161.7	177.6



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