

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: P775936

Luminaire Tested: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B034)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K  
Description: 4 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2957.1 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.14 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

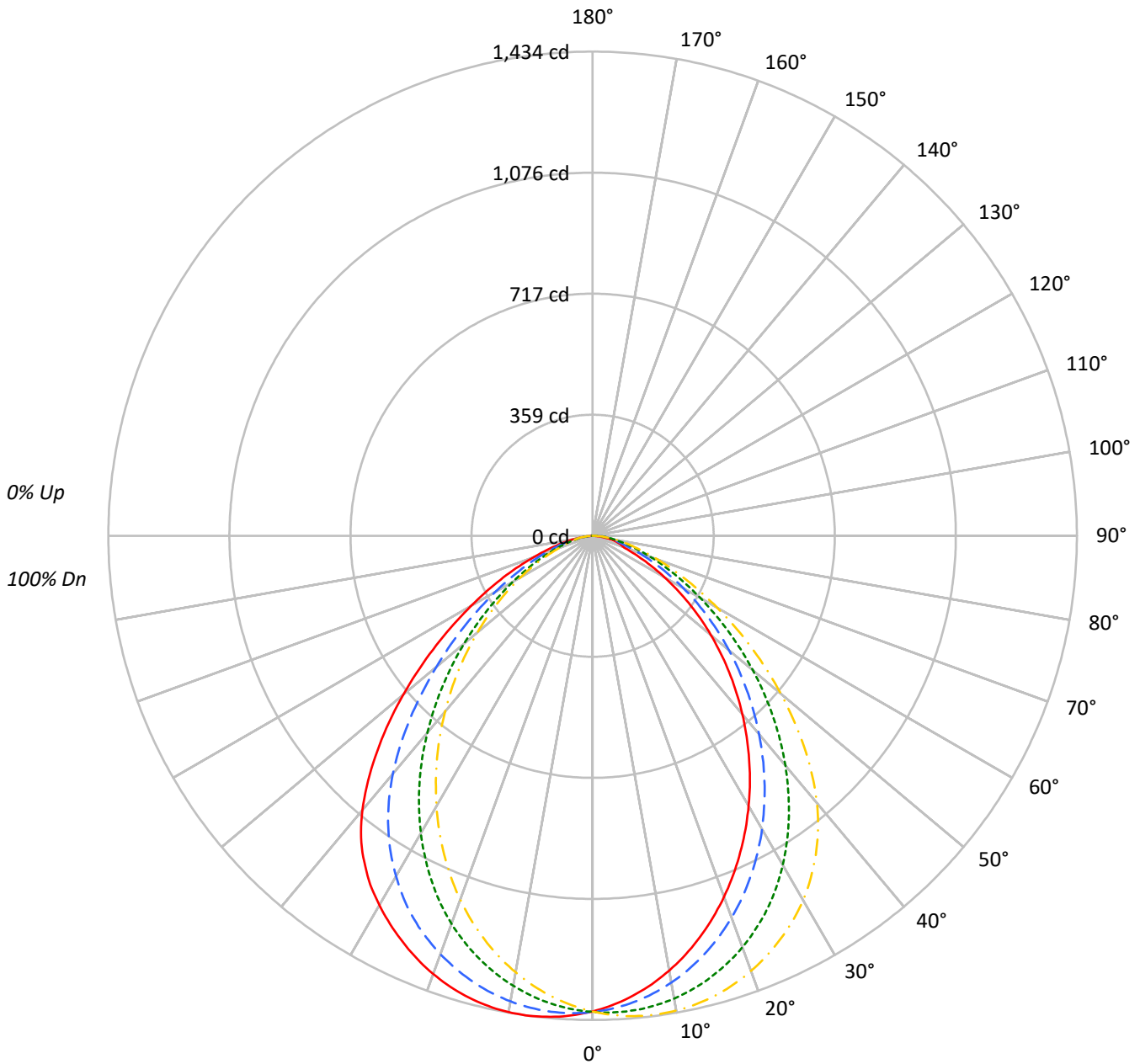
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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																			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65																			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50																			
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45																			
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40																			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33																			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	177385	177385	177385	177385
5°	172757	178227	180691	175764
10°	167087	177847	183061	172927
15°	160243	176334	184490	168972
20°	152408	173649	184939	163685
25°	143678	169617	184503	156606
30°	134275	163614	183509	147804
35°	124106	155616	181165	137288
40°	113258	145869	174126	125037
45°	101733	134320	160626	111486
50°	89455	121192	143219	97287
55°	76180	107029	124056	82521
60°	61767	92550	104682	68538
65°	47110	78973	86745	56014
70°	35655	66822	68293	44744
75°	37392	55870	53584	35690
80°	34208	48920	38121	27395
85°	17183	49528	10685	14584

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 89.5°  
 Luminance: 181711 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.7	4.5
10°-20°	372.8	12.6
20°-30°	542.1	18.3
30°-40°	607.2	20.5
40°-50°	549.3	18.6
50°-60°	398.9	13.5
60°-70°	228.2	7.7
70°-80°	101.3	3.4
80°-90°	24.5	0.8
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°	1047.6	35.4
0°-40°	1654.8	56.0
0°-60°	2603.1	88.0
0°-90°	2957.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1410	1410	1410	1410	1410	
5°	1368	1411	1430	1391	1368	129
15°	1230	1353	1416	1297	1230	345
25°	1035	1222	1329	1128	1035	475
35°	808	1013	1179	894	808	504
45°	572	755	902	626	572	441
55°	347	488	565	376	347	311
65°	158	265	291	188	158	160
75°	77	115	110	73	77	79
85°	12	34	7	10	12	19
90°	0	7	0	0	0	



TEST NUMBER: P775936

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
0.5°	1405.6	1409.0	1409.0	1408.8	1411.5	1411.5	1411.8	1411.8	1411.8	1413.7	1411.8
1°	1401.9	1406.3	1407.3	1408.3	1412.3	1413.2	1414.2	1414.7	1414.5	1415.7	1413.0
1.5°	1398.4	1403.6	1405.3	1407.6	1412.5	1415.0	1416.7	1417.4	1417.2	1417.7	1414.0
2°	1394.5	1400.4	1403.4	1406.6	1413.0	1416.2	1418.9	1420.2	1419.7	1419.4	1414.7
2.5°	1390.5	1397.2	1401.1	1405.6	1413.0	1417.4	1420.9	1422.4	1421.9	1420.9	1415.2
3°	1386.1	1393.7	1398.7	1404.3	1413.0	1418.4	1422.6	1424.6	1424.1	1422.1	1415.5
3.5°	1381.9	1390.0	1395.9	1402.9	1412.8	1419.4	1424.4	1426.6	1425.8	1423.4	1415.7
4°	1377.2	1386.3	1393.2	1401.1	1412.3	1420.2	1425.8	1428.3	1427.6	1424.1	1415.5
4.5°	1372.5	1382.4	1390.0	1399.4	1411.5	1420.7	1427.1	1430.0	1429.1	1424.9	1415.2
5°	1367.5	1377.9	1386.8	1397.4	1410.8	1420.9	1428.1	1431.5	1430.3	1425.4	1415.0
5.5°	1362.3	1373.7	1383.3	1395.2	1409.8	1420.9	1428.8	1432.5	1431.3	1425.8	1414.2
6°	1356.9	1369.0	1379.6	1392.7	1408.5	1420.7	1429.6	1433.8	1432.3	1425.8	1413.5
6.5°	1351.5	1364.3	1375.9	1390.0	1407.1	1420.4	1430.0	1434.5	1433.0	1425.8	1412.5
7°	1345.8	1359.4	1372.0	1387.3	1405.3	1419.9	1430.3	1435.0	1433.5	1425.6	1411.3
7.5°	1339.9	1354.2	1367.8	1384.3	1403.6	1419.4	1430.3	1435.5	1433.8	1425.1	1410.0
8°	1333.7	1348.7	1363.3	1381.1	1401.6	1418.4	1430.3	1435.7	1434.0	1424.6	1408.3
8.5°	1327.5	1343.1	1358.6	1377.7	1399.4	1417.2	1430.0	1435.7	1433.8	1423.9	1406.6
9°	1321.1	1337.4	1353.9	1374.2	1397.2	1416.0	1429.3	1435.7	1433.5	1422.6	1404.8
9.5°	1314.2	1331.4	1349.0	1370.2	1394.5	1414.5	1428.8	1435.2	1433.3	1421.6	1402.6
10°	1307.5	1325.3	1343.8	1366.3	1391.7	1413.0	1427.8	1434.7	1432.5	1420.2	1400.4
10.5°	1300.3	1318.8	1338.4	1362.1	1388.5	1411.0	1426.8	1434.0	1431.8	1418.7	1397.9
11°	1293.4	1312.7	1332.9	1357.9	1385.3	1409.0	1425.6	1433.0	1430.5	1417.0	1395.2
11.5°	1285.7	1305.8	1327.2	1353.4	1382.1	1406.8	1424.1	1432.0	1429.6	1415.0	1392.5
12°	1278.3	1299.3	1321.3	1348.5	1378.6	1404.3	1422.6	1430.8	1428.1	1413.0	1389.5
12.5°	1270.7	1292.2	1315.1	1343.8	1374.9	1401.9	1420.7	1429.3	1426.6	1410.8	1386.3
13°	1262.8	1285.0	1309.0	1338.6	1371.0	1399.2	1418.7	1427.6	1424.9	1408.3	1383.1
13.5°	1254.8	1277.6	1302.5	1333.2	1367.0	1396.2	1416.7	1425.6	1422.9	1405.6	1379.4
14°	1246.7	1270.2	1295.9	1327.7	1362.6	1393.0	1414.2	1423.6	1420.7	1402.9	1375.7
14.5°	1238.3	1262.5	1288.9	1322.1	1358.1	1389.5	1411.8	1421.4	1418.2	1399.9	1371.7
15°	1229.9	1254.8	1282.3	1316.4	1353.4	1386.1	1409.0	1419.2	1416.0	1396.7	1368.0
15.5°	1221.2	1246.4	1274.9	1310.2	1348.5	1382.4	1406.1	1416.5	1413.2	1393.2	1363.6
16°	1212.6	1238.5	1267.7	1304.0	1343.3	1378.4	1402.9	1413.7	1410.3	1389.8	1359.1
16.5°	1203.4	1230.4	1260.0	1297.8	1338.4	1374.4	1399.7	1410.8	1407.1	1386.1	1354.7
17°	1194.5	1222.0	1252.6	1291.4	1332.9	1370.2	1396.2	1407.8	1404.1	1382.1	1350.0
17.5°	1185.4	1213.3	1244.7	1284.5	1327.2	1365.8	1392.5	1404.3	1400.6	1377.9	1345.0
18°	1176.3	1204.7	1236.8	1277.6	1321.6	1361.1	1388.8	1400.9	1396.9	1374.0	1340.1
18.5°	1166.6	1195.8	1228.7	1270.4	1315.6	1356.4	1384.8	1397.2	1393.2	1369.5	1334.7
19°	1157.0	1186.6	1220.5	1263.0	1309.5	1351.5	1380.6	1393.5	1389.3	1364.8	1329.5
19.5°	1147.6	1177.5	1211.8	1255.6	1303.3	1346.3	1376.2	1389.3	1385.1	1360.1	1324.0
20°	1138.0	1168.4	1203.4	1248.2	1296.6	1341.1	1371.7	1385.1	1380.9	1355.4	1318.4
20.5°	1127.8	1159.0	1194.8	1240.3	1289.9	1335.7	1367.0	1380.9	1376.4	1350.2	1312.4
21°	1117.9	1149.3	1185.9	1232.4	1283.0	1330.0	1362.1	1376.2	1371.7	1345.0	1306.5



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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°	1087.3	1120.2	1158.5	1207.4	1261.3	1311.9	1346.5	1361.6	1356.9	1328.5	1287.5
23°	1077.2	1110.3	1149.1	1199.0	1253.9	1305.5	1341.1	1356.4	1351.5	1322.8	1280.8
23.5°	1066.5	1099.9	1139.4	1190.1	1245.9	1298.8	1335.4	1351.2	1346.3	1316.9	1274.1
24°	1055.9	1090.3	1129.8	1181.0	1238.0	1292.4	1329.5	1345.5	1340.6	1310.7	1267.0
24.5°	1045.3	1079.9	1119.9	1171.8	1229.9	1285.2	1323.5	1339.9	1334.9	1304.5	1259.5
25°	1034.7	1069.3	1109.8	1162.7	1221.5	1278.3	1317.4	1334.2	1328.7	1298.3	1252.1
25.5°	1023.8	1058.9	1099.7	1153.0	1212.8	1270.9	1311.2	1328.0	1322.8	1291.9	1244.5
26°	1013.2	1048.5	1089.0	1143.4	1204.2	1263.2	1304.8	1322.1	1316.9	1285.2	1236.6
26.5°	1002.0	1037.9	1078.9	1133.3	1195.0	1255.6	1298.1	1315.9	1310.4	1278.3	1228.4
27°	991.2	1027.0	1068.5	1123.6	1185.7	1247.9	1291.4	1309.7	1304.0	1271.4	1219.8
27.5°	980.1	1016.1	1057.9	1113.5	1176.3	1239.5	1284.5	1303.3	1297.6	1264.5	1211.1
28°	968.9	1005.3	1046.8	1102.9	1166.6	1231.1	1277.3	1296.4	1290.7	1257.3	1202.2
28.5°	957.8	994.4	1036.4	1092.2	1156.7	1222.5	1269.7	1289.9	1284.0	1249.4	1192.8
29°	946.4	983.3	1025.5	1081.4	1146.6	1213.8	1262.3	1283.0	1277.1	1241.7	1183.4
29.5°	935.1	972.1	1014.6	1070.7	1136.2	1204.4	1254.4	1276.1	1270.2	1233.6	1174.0
30°	924.0	961.0	1002.8	1059.9	1125.9	1195.0	1246.4	1268.9	1262.8	1225.4	1164.4
30.5°	912.3	949.9	991.9	1048.5	1115.5	1185.2	1238.0	1261.5	1255.6	1216.8	1154.3
31°	900.7	938.3	980.5	1037.4	1104.6	1175.3	1229.4	1253.9	1248.2	1207.9	1144.1
31.5°	889.4	927.2	969.2	1026.0	1093.5	1165.1	1220.7	1246.2	1240.8	1199.0	1134.0
32°	878.0	915.6	957.3	1014.4	1082.4	1155.3	1211.6	1238.3	1232.9	1189.9	1123.4
32.5°	866.4	903.9	946.0	1003.3	1071.2	1144.6	1202.0	1229.9	1225.2	1180.2	1112.8
33°	854.8	892.6	934.1	991.2	1059.9	1134.3	1192.3	1221.2	1216.8	1170.3	1101.6
33.5°	843.2	881.0	922.7	979.6	1048.3	1123.4	1182.4	1212.6	1207.6	1160.2	1090.5
34°	831.5	869.3	910.6	967.9	1036.6	1112.5	1172.6	1203.4	1198.0	1150.6	1078.9
34.5°	819.7	857.7	899.0	956.1	1024.5	1101.4	1162.4	1194.1	1188.6	1139.7	1067.3
35°	807.8	845.9	886.9	944.0	1012.9	1090.0	1152.0	1184.2	1179.2	1129.1	1055.4
35.5°	796.2	834.3	875.0	931.6	1000.8	1078.7	1141.4	1174.5	1169.8	1117.9	1042.8
36°	784.3	822.4	862.9	919.5	988.7	1067.0	1130.5	1164.2	1159.7	1106.6	1030.5
36.5°	772.7	810.8	851.3	907.4	976.6	1054.9	1119.4	1154.0	1149.1	1094.0	1017.4
37°	760.6	798.9	839.4	895.3	964.2	1042.8	1108.1	1143.1	1138.0	1081.6	1004.3
37.5°	749.0	786.8	826.8	882.9	951.4	1030.7	1096.2	1132.3	1126.6	1068.8	990.9
38°	736.9	774.9	815.0	870.3	938.8	1018.1	1084.1	1120.7	1114.0	1055.4	977.3
38.5°	725.5	763.3	802.6	858.0	926.2	1005.3	1072.0	1108.6	1101.4	1041.6	963.5
39°	713.7	751.2	790.5	845.1	913.3	992.9	1059.4	1095.5	1088.3	1027.5	948.9
39.5°	701.6	739.6	778.4	833.3	900.5	979.8	1046.8	1082.1	1074.0	1012.9	934.6
40°	689.4	727.8	766.3	820.7	887.9	966.7	1033.2	1068.0	1059.9	998.1	919.8
40.5°	678.1	715.9	754.2	807.8	874.5	953.1	1019.6	1054.2	1045.3	982.8	904.7
41°	665.7	704.0	741.8	795.2	861.4	939.8	1005.3	1039.4	1030.5	967.2	889.6
41.5°	654.1	692.2	730.0	782.9	848.3	926.2	991.7	1025.0	1015.1	951.4	874.5
42°	642.2	680.1	717.9	770.0	835.0	912.1	976.8	1009.7	999.6	935.3	859.0
42.5°	630.6	668.4	705.5	757.4	821.7	898.3	962.3	995.1	984.0	919.5	843.4
43°	618.8	656.6	693.4	745.0	808.6	884.4	947.2	979.6	968.2	902.5	827.6
43.5°	607.2	645.0	681.3	732.4	795.2	870.1	932.4	964.0	951.9	885.9	811.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	571.6	609.6	645.2	694.6	754.7	826.3	886.2	916.1	902.5	835.5	763.3
45.5°	560.5	597.8	633.1	681.8	741.3	811.8	870.8	900.0	885.7	818.7	747.3
46°	548.6	586.2	621.2	669.2	727.8	796.7	854.8	883.7	868.9	801.9	730.7
46.5°	537.0	574.8	609.4	656.8	713.9	782.1	839.2	867.1	851.6	784.8	714.7
47°	525.4	562.9	597.5	644.2	700.3	767.0	823.4	850.3	834.5	767.8	698.3
47.5°	514.0	551.3	585.7	631.9	686.7	752.2	807.3	833.5	817.2	751.0	682.5
48°	502.4	539.7	573.8	619.3	673.4	737.4	791.3	817.0	800.2	734.2	666.5
48.5°	491.0	528.3	561.9	606.9	659.8	722.3	775.4	800.4	783.1	717.6	650.7
49°	479.6	517.0	550.3	594.6	646.2	707.5	759.4	783.4	765.6	700.6	635.1
49.5°	468.5	505.3	539.0	582.4	632.6	692.7	743.3	766.5	748.5	684.3	619.5
50°	456.9	494.2	527.1	570.3	619.0	677.8	727.3	749.5	731.5	667.5	603.9
50.5°	445.8	482.9	515.5	557.7	605.7	663.0	711.4	732.4	714.2	651.4	588.4
51°	434.7	471.5	504.1	545.4	592.1	647.9	695.4	715.9	697.4	635.1	573.6
51.5°	423.6	460.1	492.7	533.5	578.7	633.6	679.6	699.1	680.1	618.8	558.5
52°	412.7	449.0	481.6	521.7	565.6	618.8	664.0	682.3	663.3	603.0	543.7
52.5°	401.8	437.9	470.3	509.8	552.5	604.2	647.9	665.2	646.5	587.1	529.1
53°	390.7	427.0	458.9	497.4	539.4	589.6	632.1	648.7	630.1	571.6	514.5
53.5°	379.3	415.6	447.8	485.8	526.1	575.5	616.5	632.1	613.6	555.8	500.2
54°	368.7	405.0	436.9	474.0	513.3	560.9	601.0	615.8	596.8	540.7	486.1
54.5°	357.8	393.9	425.8	462.1	500.7	547.1	585.9	599.0	581.0	525.6	472.2
55°	347.2	383.5	414.9	450.7	487.8	533.3	570.8	583.7	565.4	510.8	458.6
55.5°	336.6	372.6	404.0	439.1	475.2	519.4	555.5	567.1	549.1	496.0	444.6
56°	325.9	362.3	393.4	427.5	462.4	505.3	540.2	551.3	533.5	481.1	431.5
56.5°	315.3	351.6	382.8	416.1	450.2	491.8	525.4	535.5	518.0	466.8	418.6
57°	304.9	341.3	372.2	405.0	438.1	478.4	510.8	519.9	502.6	452.7	405.5
57.5°	294.8	330.9	361.5	393.7	426.0	465.3	496.5	504.6	487.6	438.9	392.9
58°	284.4	320.8	351.1	382.5	413.9	452.0	481.9	489.5	473.0	425.3	380.6
58.5°	274.5	310.6	341.0	371.7	402.3	439.1	467.8	474.7	458.1	411.4	368.2
59°	264.7	301.0	330.9	361.0	390.4	426.3	453.7	460.1	443.6	398.3	356.3
59.5°	254.8	290.9	320.3	350.4	379.1	413.7	439.9	445.8	429.5	385.3	344.5
60°	245.4	281.2	310.4	340.0	367.7	401.1	426.3	431.7	415.9	372.6	332.9
60.5°	235.7	271.3	300.2	329.4	356.6	389.0	412.7	417.6	401.8	360.0	321.2
61°	226.4	261.9	290.6	319.3	345.7	376.8	399.6	404.0	388.7	347.7	310.4
61.5°	217.2	252.6	280.7	309.1	335.3	365.0	386.7	390.7	375.4	335.6	299.5
62°	208.3	243.4	271.6	299.5	324.5	353.4	373.9	377.6	363.0	324.2	288.9
62.5°	199.2	234.3	262.2	289.6	314.3	341.8	361.3	364.5	350.2	312.4	278.3
63°	190.8	225.4	253.0	280.2	304.0	330.4	348.9	351.9	337.6	301.0	268.1
63.5°	182.4	216.5	243.9	271.1	294.1	319.3	336.8	339.5	325.7	289.9	258.0
64°	174.2	207.6	235.5	261.9	284.2	308.4	325.0	327.7	313.8	279.7	248.3
64.5°	165.8	198.9	226.6	252.8	274.8	297.8	313.3	315.8	302.2	268.9	239.0
65°	158.2	190.8	218.2	244.1	265.2	287.4	302.2	304.2	291.3	258.7	229.8
65.5°	150.2	182.6	209.8	235.7	256.0	277.0	291.1	293.1	280.0	248.3	220.7
66°	142.6	174.5	201.9	227.3	247.1	266.9	280.2	282.0	268.4	238.7	212.0





TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	121.8	151.2	178.2	202.6	221.4	238.2	249.6	250.6	235.5	211.0	186.6
68°	115.6	144.1	171.0	195.0	213.5	228.8	239.5	240.2	225.1	201.9	178.9
68.5°	110.0	136.9	163.6	187.3	205.6	219.9	230.1	230.3	215.2	192.7	171.2
69°	104.5	130.0	156.4	179.9	197.4	211.5	220.9	220.9	205.4	183.6	163.8
69.5°	99.8	123.3	149.5	172.5	189.5	203.1	212.3	211.8	195.5	175.0	156.7
70°	96.9	116.9	142.6	165.3	181.6	195.0	203.6	202.6	185.6	166.8	149.5
70.5°	95.1	110.7	136.2	158.2	174.0	186.6	195.0	193.7	177.2	158.6	142.8
71°	93.4	105.3	129.7	151.5	166.8	178.7	186.3	184.6	168.8	151.0	136.2
71.5°	91.7	100.1	123.8	144.6	159.6	171.0	178.4	175.9	160.1	143.6	129.7
72°	89.9	95.9	117.9	138.1	152.7	163.8	170.5	167.8	152.2	136.4	123.6
72.5°	87.7	92.9	112.2	132.0	146.0	156.4	162.8	159.9	144.6	129.5	117.4
73°	85.5	90.7	107.0	125.8	139.4	149.5	155.9	152.2	137.1	122.6	111.4
73.5°	83.5	88.7	101.8	119.9	132.9	142.6	148.5	144.8	130.0	115.9	105.8
74°	81.3	86.7	97.1	114.2	126.8	136.4	141.6	137.6	123.3	109.5	100.1
74.5°	79.3	85.0	92.4	108.7	120.8	130.0	134.9	130.7	116.6	103.3	94.6
75°	76.9	83.0	88.2	103.5	114.9	123.8	128.7	124.1	110.2	97.4	89.5
75.5°	74.4	81.1	85.3	98.4	109.2	117.6	122.1	117.6	104.0	91.4	84.3
76°	71.7	78.8	82.3	93.7	104.0	111.9	116.1	111.2	97.9	85.7	79.1
76.5°	68.7	76.4	79.3	89.0	98.6	106.5	110.2	105.0	92.2	80.1	74.1
77°	66.0	73.9	76.1	85.0	93.7	101.1	104.5	98.8	86.2	74.6	69.4
77.5°	63.0	71.4	73.9	81.3	89.0	95.9	98.8	93.2	80.6	69.2	64.7
78°	60.0	68.7	71.9	77.6	84.3	90.7	93.4	87.5	74.9	64.0	59.8
78.5°	56.8	66.2	69.9	73.9	79.8	86.0	88.2	82.0	69.2	58.8	55.4
79°	53.6	63.3	67.7	70.2	75.6	81.3	83.0	76.6	63.5	53.6	50.9
79.5°	50.4	60.5	65.5	67.0	71.4	76.9	78.1	71.2	58.1	48.7	46.5
80°	47.2	57.6	63.0	63.8	67.5	72.4	73.4	66.0	52.6	44.0	42.3
80.5°	43.7	54.6	60.5	61.0	63.8	68.2	68.7	61.3	47.2	39.0	38.3
81°	40.3	51.4	58.1	58.3	60.0	64.0	64.0	56.1	41.8	34.6	34.3
81.5°	36.8	48.4	55.4	55.6	56.6	60.0	59.6	51.4	36.3	30.1	30.4
82°	33.4	45.0	52.6	52.9	53.1	56.1	54.9	46.7	30.9	26.4	26.7
82.5°	29.9	41.8	49.9	50.4	49.9	52.4	50.4	42.3	26.7	23.0	23.5
83°	25.9	38.3	47.2	47.7	46.7	48.4	46.2	37.8	22.2	19.5	20.3
83.5°	22.2	34.8	44.2	45.5	43.5	44.7	42.0	33.9	17.8	16.1	17.1
84°	18.5	31.4	41.5	43.0	40.3	41.0	38.1	29.7	13.6	12.6	13.8
84.5°	15.1	27.9	38.5	40.5	37.3	37.6	34.3	26.2	9.1	10.1	10.9
85°	11.9	24.5	35.8	38.1	34.3	34.1	30.6	22.7	7.4	7.9	7.9
85.5°	9.6	21.3	33.1	35.6	31.6	30.9	27.2	19.5	5.9	5.7	5.7
86°	8.4	18.5	30.4	32.9	28.9	27.7	24.2	16.1	4.9	3.7	3.5
86.5°	6.9	16.3	27.7	30.1	26.2	24.7	21.0	12.6	4.0	2.0	2.0
87°	5.7	14.3	25.0	27.2	23.7	21.7	17.8	9.9	3.0	1.0	0.7
87.5°	4.4	12.4	22.0	24.5	21.0	18.8	14.6	7.2	2.5	0.5	0.0
88°	3.2	10.4	19.3	21.5	18.3	15.8	11.4	4.9	1.5	0.2	0.0
88.5°	2.0	8.4	16.3	18.8	15.8	12.8	8.6	3.0	0.7	0.0	0.0



TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	2.7	8.2	9.4	7.4	5.4	2.0	0.2	0.0	0.0	0.0



TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
0.5°	1409.0	1409.5	1407.3	1405.8	1405.3	1405.6
1°	1409.0	1408.3	1405.1	1402.6	1401.6	1401.9
1.5°	1408.8	1406.8	1402.4	1399.2	1397.9	1398.4
2°	1408.3	1405.1	1399.7	1395.7	1394.0	1394.5
2.5°	1407.6	1403.4	1396.7	1392.2	1390.0	1390.5
3°	1406.8	1401.4	1393.5	1388.0	1385.8	1386.1
3.5°	1405.6	1399.2	1390.3	1384.1	1381.4	1381.9
4°	1404.6	1396.7	1386.8	1379.6	1376.4	1377.2
4.5°	1403.1	1394.2	1382.8	1375.2	1371.5	1372.5
5°	1401.4	1391.3	1379.1	1370.5	1366.5	1367.5
5.5°	1399.7	1388.3	1374.9	1365.6	1361.4	1362.3
6°	1397.7	1385.3	1370.5	1360.4	1355.9	1356.9
6.5°	1395.5	1381.9	1366.3	1355.2	1350.2	1351.5
7°	1393.0	1378.4	1361.6	1349.7	1344.3	1345.8
7.5°	1390.5	1374.7	1356.7	1344.1	1338.4	1339.9
8°	1387.8	1370.7	1351.7	1338.1	1331.9	1333.7
8.5°	1384.8	1366.8	1346.3	1332.2	1325.5	1327.5
9°	1381.9	1362.3	1341.1	1326.0	1319.1	1321.1
9.5°	1378.4	1357.9	1335.2	1319.6	1312.2	1314.2
10°	1374.9	1353.2	1329.5	1312.9	1305.3	1307.5
10.5°	1371.5	1348.5	1323.5	1306.2	1298.3	1300.3
11°	1367.5	1343.3	1317.4	1299.3	1290.9	1293.4
11.5°	1363.6	1338.4	1311.2	1292.4	1283.5	1285.7
12°	1359.4	1332.7	1304.5	1285.0	1275.8	1278.3
12.5°	1355.2	1327.2	1297.8	1277.3	1268.2	1270.7
13°	1350.5	1321.6	1290.9	1269.9	1260.3	1262.8
13.5°	1345.8	1315.6	1284.0	1262.0	1251.9	1254.8
14°	1340.8	1309.5	1276.6	1254.1	1244.0	1246.7
14.5°	1335.9	1303.3	1269.4	1245.9	1235.6	1238.3
15°	1330.7	1296.9	1261.8	1237.8	1226.9	1229.9
15.5°	1325.3	1289.9	1253.9	1229.1	1218.3	1221.2
16°	1319.6	1283.3	1245.9	1220.7	1209.4	1212.6
16.5°	1313.9	1276.6	1238.0	1212.1	1200.5	1203.4
17°	1308.0	1269.2	1229.9	1203.2	1191.1	1194.5
17.5°	1302.0	1261.8	1221.2	1194.1	1181.7	1185.4
18°	1295.6	1254.4	1212.8	1184.9	1172.6	1176.3
18.5°	1289.4	1246.7	1203.9	1175.5	1162.9	1166.6
19°	1282.8	1238.8	1195.0	1166.1	1153.3	1157.0
19.5°	1276.1	1230.9	1185.9	1156.2	1143.4	1147.6
20°	1269.2	1222.2	1176.5	1146.6	1133.8	1138.0
20.5°	1262.0	1213.8	1167.1	1136.7	1123.9	1127.8
21°	1254.4	1204.9	1157.5	1126.6	1113.7	1117.9

TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1231.4	1178.0	1127.3	1095.5	1082.6	1087.3
23°	1223.0	1168.1	1117.0	1084.8	1072.2	1077.2
23.5°	1214.6	1158.7	1106.3	1074.0	1061.6	1066.5
24°	1205.7	1148.6	1095.7	1063.1	1050.7	1055.9
24.5°	1197.0	1138.5	1084.8	1052.0	1039.9	1045.3
25°	1187.6	1127.8	1073.7	1040.8	1028.7	1034.7
25.5°	1178.5	1117.7	1062.8	1029.7	1017.9	1023.8
26°	1168.6	1107.3	1051.2	1018.4	1006.7	1013.2
26.5°	1159.0	1096.7	1040.3	1006.7	995.4	1002.0
27°	1149.1	1085.3	1028.5	995.4	984.3	991.2
27.5°	1138.9	1074.5	1017.1	983.8	972.9	980.1
28°	1128.6	1063.1	1005.0	971.9	961.3	968.9
28.5°	1118.4	1052.0	993.6	960.3	949.7	957.8
29°	1107.6	1040.6	981.5	948.4	938.3	946.4
29.5°	1096.7	1029.0	969.9	936.6	926.7	935.1
30°	1086.1	1017.1	957.6	924.7	915.1	924.0
30.5°	1075.2	1005.3	945.5	912.6	903.2	912.3
31°	1063.8	993.4	933.1	900.5	891.6	900.7
31.5°	1052.2	981.3	921.0	888.4	879.7	889.4
32°	1040.6	968.9	908.6	876.0	867.9	878.0
32.5°	1028.7	956.8	896.0	864.4	855.8	866.4
33°	1016.9	944.5	883.7	851.8	844.1	854.8
33.5°	1004.5	932.1	871.3	839.7	832.0	843.2
34°	992.2	919.3	859.0	827.1	820.2	831.5
34.5°	979.8	906.4	846.4	814.7	808.3	819.7
35°	967.2	893.6	833.3	802.6	796.2	807.8
35.5°	954.1	881.0	820.7	790.3	784.3	796.2
36°	941.0	868.1	808.3	777.9	772.2	784.3
36.5°	927.9	854.8	795.7	765.8	760.4	772.7
37°	914.3	841.4	782.9	753.2	748.5	760.6
37.5°	900.7	828.3	770.0	740.8	736.4	749.0
38°	886.6	815.0	757.2	728.5	724.3	736.9
38.5°	873.5	801.6	744.6	716.4	712.4	725.5
39°	859.2	788.3	732.0	704.0	700.6	713.7
39.5°	844.9	774.7	719.1	692.2	688.7	701.6
40°	830.8	761.1	706.3	679.6	676.4	689.4
40.5°	816.5	747.5	693.4	667.5	664.7	678.1
41°	802.1	734.2	680.8	655.1	652.9	665.7
41.5°	787.8	720.6	667.9	643.2	641.0	654.1
42°	773.5	707.2	655.3	631.4	628.9	642.2
42.5°	759.1	693.9	642.7	619.0	617.5	630.6
43°	744.1	680.3	630.4	607.2	605.9	618.8
43.5°	729.5	666.7	617.5	595.1	593.8	607.2

TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	685.5	626.4	580.5	559.7	559.0	571.6
45.5°	671.2	613.6	568.4	547.9	547.4	560.5
46°	656.1	600.5	556.3	536.5	536.0	548.6
46.5°	641.8	587.1	544.1	524.9	524.4	537.0
47°	626.9	574.0	531.8	513.5	513.3	525.4
47.5°	612.3	560.9	519.7	501.9	501.9	514.0
48°	597.8	548.1	507.8	490.3	490.5	502.4
48.5°	583.4	535.0	495.7	479.2	479.2	491.0
49°	569.4	522.4	484.3	468.0	468.0	479.6
49.5°	555.0	509.8	472.5	456.4	457.2	468.5
50°	540.4	496.9	460.6	445.3	446.3	456.9
50.5°	526.4	484.3	449.0	434.4	434.9	445.8
51°	513.0	471.7	437.9	423.6	424.0	434.7
51.5°	498.9	459.4	426.8	412.2	413.4	423.6
52°	485.3	447.3	415.4	402.1	402.8	412.7
52.5°	471.7	435.2	404.3	391.2	392.2	401.8
53°	458.6	422.8	393.7	380.6	381.5	390.7
53.5°	445.3	411.2	382.8	369.9	370.9	379.3
54°	432.9	399.1	372.2	359.8	360.5	368.7
54.5°	420.1	387.7	361.8	349.7	350.4	357.8
55°	407.5	376.1	351.4	339.5	340.3	347.2
55.5°	394.9	365.2	341.3	329.7	330.1	336.6
56°	383.0	353.9	331.1	320.0	320.0	325.9
56.5°	371.2	343.5	321.5	310.4	310.1	315.3
57°	359.6	332.4	311.6	300.7	300.2	304.9
57.5°	348.2	322.0	302.0	291.3	290.4	294.8
58°	336.8	311.6	292.6	282.2	281.2	284.4
58.5°	325.7	301.7	283.2	273.1	271.3	274.5
59°	314.8	291.6	274.3	264.4	262.2	264.7
59.5°	304.2	282.2	265.2	255.5	252.8	254.8
60°	293.8	272.3	256.3	247.1	243.9	245.4
60.5°	283.4	263.2	247.6	238.2	234.8	235.7
61°	273.8	254.0	239.0	230.1	226.1	226.4
61.5°	263.9	245.1	230.8	221.9	217.5	217.2
62°	254.5	236.5	222.4	214.0	209.3	208.3
62.5°	245.1	227.8	214.0	205.8	200.9	199.2
63°	236.0	219.4	206.1	197.9	193.0	190.8
63.5°	227.3	211.5	198.2	190.3	185.1	182.4
64°	218.7	203.1	190.5	182.6	177.4	174.2
64.5°	210.5	195.7	182.9	175.2	170.0	165.8
65°	202.6	188.1	175.7	167.8	162.8	158.2
65.5°	194.5	180.6	168.3	160.6	155.7	150.2
66°	186.3	173.2	161.1	153.5	148.8	142.6



TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	164.3	152.7	141.1	133.4	128.3	121.8
68°	157.2	146.0	134.9	127.3	121.6	115.6
68.5°	150.5	139.6	128.7	121.3	115.2	110.0
69°	143.8	133.4	122.8	115.6	109.0	104.5
69.5°	137.4	127.3	117.1	110.0	103.0	99.8
70°	131.2	121.6	111.7	104.8	97.6	96.9
70.5°	125.3	115.9	106.3	100.1	92.9	95.1
71°	119.1	110.5	101.1	95.4	89.2	93.4
71.5°	113.4	105.0	96.4	90.9	87.5	91.7
72°	108.0	99.8	91.7	87.5	85.5	89.9
72.5°	102.8	94.9	88.7	84.0	83.8	87.7
73°	97.4	90.2	84.5	80.6	81.8	85.5
73.5°	92.4	86.0	80.3	77.3	79.8	83.5
74°	87.7	81.8	76.1	73.9	77.3	81.3
74.5°	83.0	77.6	71.9	71.4	75.1	79.3
75°	78.3	73.4	68.5	68.9	72.7	76.9
75.5°	74.1	68.9	65.2	66.7	69.9	74.4
76°	69.7	65.2	62.0	64.5	67.2	71.7
76.5°	65.5	61.5	58.8	62.3	64.5	68.7
77°	61.5	57.8	56.1	59.8	61.5	66.0
77.5°	57.6	54.4	53.1	57.1	58.8	63.0
78°	53.6	50.9	50.4	54.6	55.8	60.0
78.5°	49.7	47.4	47.4	51.9	52.6	56.8
79°	46.0	44.2	44.7	49.2	49.4	53.6
79.5°	42.3	40.8	42.3	46.5	46.2	50.4
80°	38.8	37.8	39.8	43.5	42.8	47.2
80.5°	35.3	34.8	37.3	40.8	39.5	43.7
81°	31.9	31.9	34.8	37.8	36.3	40.3
81.5°	28.7	29.2	32.4	34.8	32.9	36.8
82°	25.7	26.2	29.7	32.1	29.7	33.4
82.5°	22.7	23.5	26.9	29.2	26.4	29.9
83°	19.5	21.0	24.0	26.4	23.2	25.9
83.5°	16.6	18.3	21.3	23.7	20.3	22.2
84°	13.6	15.6	18.3	21.0	17.5	18.5
84.5°	10.6	12.8	15.3	18.3	15.1	15.1
85°	7.9	10.1	12.4	15.3	13.1	11.9
85.5°	5.4	7.7	9.1	12.4	11.1	9.6
86°	3.2	5.2	6.9	9.4	9.1	8.4
86.5°	1.2	2.7	4.7	7.2	7.4	6.9
87°	0.0	0.5	2.5	4.9	5.7	5.7
87.5°	0.0	0.0	0.2	2.5	3.7	4.4
88°	0.0	0.0	0.0	0.2	2.0	3.2
88.5°	0.0	0.0	0.0	0.2	0.5	2.0



TEST NUMBER: P775936

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.2	0.2	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





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

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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	1107.8	1139.7	1176.8	1224.2	1276.1	1324.0	1357.1	1371.5	1367.0	1339.6	1300.3
22°	1097.7	1130.1	1167.9	1216.0	1268.7	1318.1	1352.0	1366.8	1362.1	1334.2	1293.9



44°	595.1	633.1	669.2	719.6	781.4	855.5	917.0	947.9	935.6	869.1	795.2
44.5°	583.7	621.2	657.1	707.0	768.0	840.9	901.7	932.1	919.3	852.8	779.4



66.5°	135.4	166.3	193.7	218.9	238.2	257.0	269.6	271.3	257.0	229.3	203.6
67°	128.5	158.6	185.8	211.0	229.6	247.6	259.5	261.0	246.4	220.2	195.2



89°	0.7	6.4	13.1	15.6	13.1	10.4	5.9	1.5	0.2	0.0	0.0
89.5°	0.2	4.7	10.1	12.6	10.1	7.7	3.7	0.7	0.0	0.0	0.0



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21.5°	1246.7	1196.3	1147.6	1116.5	1103.4	1107.8
22°	1239.3	1187.1	1137.2	1106.1	1093.2	1097.7



44°	714.7	653.4	605.4	583.4	582.2	595.1
44.5°	700.6	640.0	592.8	571.3	570.6	583.7



66.5°	178.9	166.1	154.4	146.8	141.6	135.4
67°	171.5	159.1	147.5	140.1	134.9	128.5

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Scaled Data Report



89°	0.0	0.0	0.0	0.2	0.2	0.7
89.5°	0.0	0.0	0.0	0.2	0.2	0.2

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)