

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: P776039

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B041)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K
Description: 6 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3125.5 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

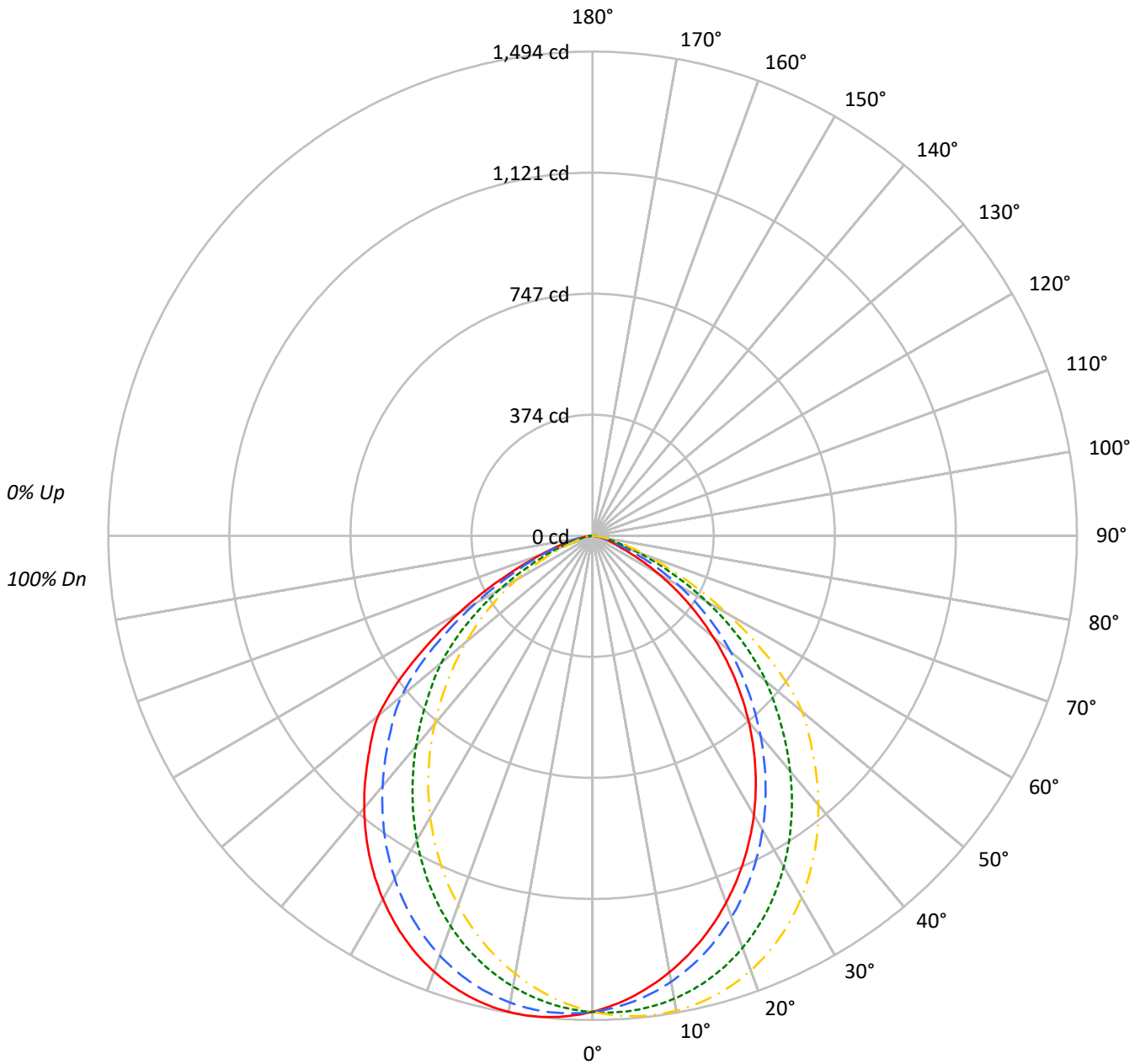
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

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	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58					58			
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51					51			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	80531	80531	80531	80531
5°	78505	80877	82044	79826
10°	76095	80738	83048	78639
15°	73355	80120	83531	76953
20°	70280	78920	83482	74755
25°	66832	77115	82971	71968
30°	62965	74644	81930	68669
35°	58571	71527	80401	64842
40°	53608	67841	78440	60642
45°	47951	63697	76078	56215
50°	41457	59503	73567	51887
55°	34054	53265	64390	45255
60°	25744	44503	52112	36302
65°	16902	34141	38993	26773
70°	11204	23898	26928	18032
75°	8960	15420	18682	11416
80°	6598	9439	11239	6756
85°	3585	5535	2453	3900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 76597 cd/sqm



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	4.4
10°-20°	389.4	12.5
20°-30°	568.2	18.2
30°-40°	643.1	20.6
40°-50°	608.5	19.5
50°-60°	462.0	14.8
60°-70°	231.5	7.4
70°-80°	73.3	2.3
80°-90°	11.1	0.4
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°	1096.0	35.1
0°-40°	1739.1	55.6
0°-60°	2809.6	89.9
0°-90°	3125.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1469	1469	1469	1469	1469	
5°	1427	1470	1491	1451	1427	134
15°	1292	1412	1472	1356	1292	363
25°	1105	1275	1372	1190	1105	508
35°	875	1069	1201	969	875	546
45°	618	822	981	725	618	476
55°	356	557	674	474	356	319
65°	130	263	301	206	130	135
75°	42	73	88	54	42	46
85°	6	9	4	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
0.5°	1465.3	1466.4	1467.4	1468.2	1470.5	1470.8	1471.3	1471.5	1471.8	1471.8	1470.8
1°	1461.7	1463.5	1465.3	1467.7	1471.3	1472.6	1473.9	1474.6	1474.6	1474.1	1472.1
1.5°	1458.1	1460.4	1463.3	1466.6	1471.8	1474.4	1476.4	1477.5	1477.5	1476.2	1473.3
2°	1454.3	1457.1	1461.0	1465.6	1472.1	1475.7	1478.5	1480.1	1479.8	1478.2	1474.1
2.5°	1449.9	1453.5	1458.4	1464.3	1472.1	1477.0	1480.6	1482.4	1482.4	1480.1	1475.2
3°	1445.7	1449.9	1455.5	1462.8	1472.1	1478.0	1482.6	1484.7	1484.2	1481.3	1475.7
3.5°	1441.4	1446.0	1452.7	1461.0	1471.8	1479.0	1484.2	1486.8	1486.2	1482.6	1475.9
4°	1436.4	1441.9	1449.6	1459.2	1471.3	1479.5	1485.7	1488.6	1488.1	1483.9	1476.2
4.5°	1431.8	1437.5	1446.3	1457.1	1470.8	1480.1	1487.0	1490.4	1489.6	1484.7	1476.2
5°	1426.6	1433.1	1442.6	1454.8	1469.7	1480.3	1488.1	1491.7	1490.9	1485.5	1475.9
5.5°	1421.5	1428.2	1439.0	1452.2	1468.7	1480.6	1488.8	1493.0	1491.9	1486.0	1475.7
6°	1416.1	1423.3	1434.9	1449.6	1467.4	1480.3	1489.6	1494.0	1492.7	1486.2	1474.9
6.5°	1410.6	1418.4	1431.0	1446.8	1466.1	1480.1	1490.1	1494.8	1493.5	1486.2	1474.1
7°	1405.0	1413.2	1426.6	1443.7	1464.3	1479.5	1490.4	1495.3	1493.7	1486.2	1473.1
7.5°	1399.0	1407.8	1422.3	1440.3	1462.5	1478.8	1490.4	1495.5	1494.0	1485.7	1471.8
8°	1392.8	1402.1	1417.6	1436.7	1460.4	1478.0	1490.4	1495.8	1494.0	1485.2	1470.5
8.5°	1386.6	1396.5	1412.7	1433.1	1458.4	1477.0	1490.1	1495.8	1493.7	1484.4	1468.7
9°	1380.5	1390.8	1407.5	1429.2	1455.8	1475.9	1489.3	1495.5	1493.5	1483.7	1466.9
9.5°	1373.7	1384.6	1402.4	1425.4	1453.2	1474.4	1488.8	1495.0	1492.7	1482.4	1465.1
10°	1367.0	1378.4	1397.2	1421.0	1450.4	1472.8	1487.8	1494.2	1491.9	1481.1	1462.8
10.5°	1360.3	1371.9	1391.6	1416.6	1447.5	1470.8	1486.8	1493.5	1490.9	1479.3	1460.4
11°	1353.4	1365.5	1385.6	1411.9	1444.2	1468.7	1485.5	1492.4	1489.3	1477.7	1457.9
11.5°	1346.1	1358.8	1379.7	1407.0	1440.8	1466.6	1483.9	1490.9	1488.1	1475.7	1455.0
12°	1338.9	1351.8	1373.7	1401.9	1437.2	1464.1	1482.1	1489.6	1486.2	1473.6	1452.2
12.5°	1331.4	1344.8	1367.3	1397.0	1433.6	1461.5	1480.1	1487.8	1484.4	1471.3	1448.8
13°	1323.9	1337.6	1360.8	1391.3	1429.5	1458.6	1478.0	1485.7	1482.4	1468.7	1445.5
13.5°	1316.2	1330.4	1354.1	1385.9	1425.4	1455.8	1475.7	1483.7	1479.8	1465.9	1442.1
14°	1308.5	1322.9	1347.4	1380.2	1421.0	1452.4	1473.1	1481.3	1477.5	1462.8	1438.3
14.5°	1300.5	1315.4	1340.5	1374.3	1416.3	1449.1	1470.3	1478.8	1474.6	1459.7	1434.4
15°	1292.5	1307.4	1333.2	1367.8	1411.7	1445.2	1467.4	1475.9	1471.8	1456.3	1430.3
15.5°	1284.2	1299.4	1325.8	1361.6	1406.5	1441.6	1464.3	1473.1	1468.7	1452.7	1425.9
16°	1276.0	1291.4	1318.5	1354.9	1401.4	1437.5	1461.0	1469.7	1465.1	1448.8	1421.2
16.5°	1267.4	1283.2	1310.8	1348.5	1396.2	1433.4	1457.3	1466.4	1461.7	1445.0	1416.6
17°	1258.7	1274.9	1302.8	1341.2	1390.8	1429.0	1453.7	1463.0	1457.9	1440.8	1411.7
17.5°	1250.2	1266.4	1294.8	1334.3	1384.8	1424.3	1449.6	1459.2	1454.0	1436.4	1406.8
18°	1241.1	1257.6	1286.8	1327.0	1378.7	1419.7	1445.5	1455.0	1449.6	1431.8	1401.4
18.5°	1232.3	1249.1	1278.3	1319.6	1372.7	1414.5	1441.1	1450.9	1445.5	1426.9	1395.9
19°	1223.1	1240.1	1270.0	1311.8	1366.3	1409.4	1436.4	1446.5	1440.8	1422.0	1390.3
19.5°	1213.8	1231.3	1261.2	1303.8	1359.8	1403.9	1431.8	1441.9	1435.9	1417.1	1384.3
20°	1204.7	1222.0	1252.7	1296.1	1352.8	1398.3	1427.2	1437.0	1431.0	1411.7	1378.4
20.5°	1194.9	1212.7	1243.7	1287.8	1345.9	1392.3	1422.0	1432.1	1425.9	1406.0	1371.9
21°	1185.4	1203.2	1234.7	1279.6	1338.9	1386.6	1416.6	1426.9	1420.7	1400.3	1365.7



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1156.2	1174.3	1206.5	1253.2	1316.5	1367.3	1399.3	1410.4	1403.7	1382.3	1345.6
23°	1146.2	1164.2	1197.0	1244.2	1308.5	1360.6	1393.4	1404.5	1397.5	1375.8	1338.4
23.5°	1136.1	1154.4	1187.5	1234.9	1300.5	1353.6	1387.2	1398.3	1391.3	1369.1	1331.2
24°	1125.8	1144.4	1177.4	1225.6	1292.2	1346.4	1380.5	1392.1	1385.1	1362.1	1323.7
24.5°	1115.2	1134.0	1167.1	1215.8	1283.7	1338.9	1373.7	1385.6	1378.1	1355.2	1315.9
25°	1104.9	1123.5	1157.0	1206.3	1274.9	1331.7	1367.0	1378.9	1371.7	1348.2	1308.2
25.5°	1094.3	1113.1	1146.9	1196.5	1266.1	1323.7	1360.1	1372.2	1364.5	1341.0	1300.2
26°	1083.7	1102.6	1136.6	1186.4	1257.4	1315.7	1352.8	1365.2	1357.5	1333.2	1292.2
26.5°	1072.9	1092.0	1125.5	1176.1	1248.1	1307.7	1345.4	1357.7	1350.0	1325.8	1284.0
27°	1062.0	1081.1	1115.2	1166.0	1238.5	1299.4	1337.6	1350.5	1342.8	1317.8	1275.4
27.5°	1051.0	1070.0	1104.4	1155.5	1229.3	1290.9	1330.1	1343.0	1335.0	1310.0	1266.9
28°	1039.9	1059.0	1093.5	1144.9	1219.4	1282.1	1322.1	1335.3	1327.0	1302.0	1257.9
28.5°	1028.8	1047.9	1082.2	1134.0	1209.6	1273.4	1313.9	1327.3	1319.0	1293.5	1249.1
29°	1017.7	1037.0	1071.1	1123.5	1199.8	1264.6	1305.6	1319.6	1310.8	1285.0	1240.1
29.5°	1006.3	1025.7	1060.0	1112.6	1189.5	1255.1	1297.4	1311.0	1302.5	1276.5	1230.8
30°	994.7	1014.1	1048.9	1101.5	1179.2	1246.0	1288.6	1302.8	1294.3	1267.7	1221.3
30.5°	983.1	1002.7	1037.0	1090.2	1168.9	1236.2	1279.6	1294.3	1285.8	1258.7	1211.7
31°	971.5	991.1	1025.7	1079.1	1158.3	1226.4	1270.5	1285.8	1277.0	1249.6	1202.2
31.5°	959.9	979.5	1013.8	1067.5	1147.5	1216.3	1261.5	1276.7	1267.7	1240.3	1192.1
32°	948.0	967.9	1002.2	1055.9	1136.4	1206.8	1252.2	1267.7	1258.9	1231.1	1182.3
32.5°	936.1	956.0	990.3	1044.5	1125.5	1196.5	1242.9	1258.4	1249.9	1221.5	1172.2
33°	924.0	943.9	978.7	1032.9	1114.7	1185.9	1233.1	1249.1	1240.3	1212.0	1162.2
33.5°	912.1	932.0	966.6	1020.8	1103.3	1175.6	1223.3	1239.8	1230.8	1202.2	1152.1
34°	900.0	920.1	954.7	1009.2	1092.0	1165.0	1213.3	1230.3	1221.0	1192.1	1141.3
34.5°	887.6	908.0	942.3	997.0	1080.1	1153.9	1203.2	1220.2	1211.2	1182.0	1130.7
35°	875.2	895.6	930.5	984.9	1068.8	1143.1	1193.1	1210.4	1201.4	1172.0	1120.1
35.5°	863.1	883.5	917.8	973.0	1057.1	1132.2	1182.5	1200.4	1191.6	1161.9	1109.5
36°	850.7	871.1	905.9	960.9	1045.3	1120.9	1172.2	1190.3	1181.5	1151.3	1098.4
36.5°	838.3	858.7	893.6	948.5	1033.4	1109.5	1161.6	1180.0	1170.9	1141.3	1087.6
37°	825.7	846.1	880.7	936.1	1021.3	1098.2	1150.8	1169.4	1160.6	1130.4	1076.5
37.5°	813.1	833.7	868.5	923.7	1009.2	1086.6	1139.7	1158.8	1150.0	1119.8	1065.1
38°	800.1	821.0	856.1	911.4	997.3	1074.9	1128.9	1148.2	1139.5	1108.8	1053.8
38.5°	787.8	808.7	843.5	899.0	984.9	1063.1	1117.5	1137.4	1128.9	1098.2	1043.0
39°	775.4	795.8	831.1	886.3	972.8	1051.2	1106.4	1126.6	1117.8	1087.1	1031.3
39.5°	762.2	783.4	818.5	873.9	960.6	1039.3	1095.1	1115.5	1107.2	1076.0	1020.0
40°	749.1	770.5	806.1	861.3	948.0	1027.2	1083.5	1104.4	1096.1	1064.9	1008.1
40.5°	736.4	757.6	792.9	848.7	935.1	1015.3	1071.9	1093.0	1084.8	1053.8	996.8
41°	723.5	744.7	780.5	836.0	922.7	1002.7	1060.0	1081.7	1073.7	1042.2	984.9
41.5°	710.4	732.0	767.6	823.1	910.6	990.6	1048.4	1070.3	1062.6	1031.1	973.3
42°	697.2	718.9	755.0	810.7	897.4	978.2	1036.5	1058.7	1051.0	1019.5	961.4
42.5°	684.3	706.2	742.6	798.1	885.3	966.1	1024.6	1047.1	1039.6	1008.1	949.5
43°	671.4	693.3	729.7	785.4	872.4	953.7	1012.5	1035.5	1028.0	996.3	937.7
43.5°	658.2	680.4	717.1	772.8	860.0	941.3	1000.6	1023.9	1016.6	984.6	925.8



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	618.5	641.5	678.9	734.9	821.6	903.6	963.7	988.0	981.3	949.5	889.9
45.5°	605.3	628.8	666.7	722.5	809.7	891.0	951.6	976.1	969.7	937.7	878.1
46°	592.2	615.7	653.8	709.8	796.5	878.1	939.2	964.3	957.8	926.3	866.5
46.5°	578.5	603.0	641.5	697.5	783.9	865.9	927.4	952.6	946.7	915.0	855.1
47°	565.1	589.9	628.8	685.1	771.2	853.6	915.5	941.0	935.6	903.9	843.8
47.5°	552.2	577.0	616.4	672.7	759.4	841.4	903.9	929.9	924.3	892.5	832.1
48°	539.0	564.3	603.8	660.3	746.7	829.6	892.0	918.6	913.2	881.4	821.0
48.5°	525.9	551.4	591.4	648.4	734.9	817.7	880.7	907.2	901.8	869.8	809.2
49°	512.4	538.8	579.0	636.3	722.5	805.3	868.5	895.4	889.9	857.4	797.1
49.5°	499.5	526.1	566.9	624.2	710.1	793.2	856.4	883.5	877.3	844.3	783.6
50°	486.1	513.2	554.8	611.5	697.7	780.5	843.2	869.6	862.6	829.8	770.2
50.5°	473.0	500.6	542.1	599.7	685.3	766.9	828.8	854.6	847.1	813.6	755.0
51°	459.3	488.2	530.0	587.0	672.2	752.4	813.8	838.1	828.8	796.5	739.8
51.5°	446.6	475.5	517.9	574.4	658.5	738.2	798.1	820.8	811.2	779.0	723.0
52°	433.5	462.9	505.5	561.7	645.1	722.7	781.1	802.2	792.9	760.7	705.7
52.5°	420.6	450.5	493.4	548.6	630.6	707.0	763.5	783.1	773.3	741.6	687.9
53°	407.7	438.1	481.0	535.7	615.9	691.0	745.2	763.8	754.5	722.5	670.4
53.5°	394.8	425.7	468.3	522.5	601.7	674.5	726.6	744.4	734.1	702.9	652.0
54°	381.6	413.4	455.9	508.8	586.8	657.5	708.3	725.1	713.7	683.3	634.0
54.5°	369.0	401.0	443.6	495.9	572.6	640.9	689.2	704.9	693.6	663.7	615.7
55°	356.3	388.9	431.2	483.0	557.3	623.9	670.4	685.3	673.7	644.0	597.6
55.5°	343.4	376.7	418.3	469.6	542.6	606.9	650.7	665.5	653.1	623.9	578.8
56°	331.3	364.3	405.9	456.2	527.4	589.1	631.7	645.3	632.4	603.5	560.4
56.5°	318.7	352.0	393.5	442.8	512.4	571.5	612.0	625.2	612.6	583.9	541.9
57°	306.3	339.8	380.9	429.4	497.0	554.0	593.2	604.8	592.2	564.6	523.8
57.5°	293.9	327.7	368.2	415.9	482.3	536.7	573.6	585.0	572.3	544.4	505.2
58°	282.0	315.8	356.1	402.5	466.8	518.9	555.3	565.1	553.0	524.8	487.2
58.5°	270.2	303.7	343.4	389.4	451.6	501.6	535.9	545.5	533.1	505.7	469.4
59°	258.0	292.1	331.3	375.7	436.1	484.1	516.8	525.9	513.5	487.2	451.3
59.5°	246.4	280.2	318.9	362.5	421.4	466.8	498.3	506.3	494.1	468.1	433.5
60°	234.8	268.6	307.1	349.6	405.9	449.7	479.7	487.2	475.3	449.7	416.7
60.5°	223.2	256.7	294.9	336.5	390.9	432.5	460.8	468.3	456.7	431.7	399.4
61°	211.8	245.6	282.8	323.3	375.7	415.9	442.8	449.7	438.1	414.4	382.9
61.5°	201.0	234.3	271.2	310.4	361.2	399.7	425.0	431.2	420.1	397.1	366.9
62°	189.9	223.2	259.8	297.8	346.3	383.7	407.9	413.4	402.3	380.3	351.2
62.5°	179.1	212.1	248.0	285.1	332.1	367.4	389.6	395.3	384.7	363.8	335.4
63°	168.8	201.5	236.6	272.5	317.6	351.2	372.6	377.8	367.9	347.3	320.2
63.5°	158.7	190.7	225.3	260.1	303.7	336.2	355.8	360.7	350.4	331.8	305.8
64°	148.6	180.4	213.9	247.7	289.8	320.5	340.1	344.2	333.1	317.4	291.8
64.5°	139.3	170.3	202.8	235.6	276.3	305.5	323.8	327.7	316.6	302.4	278.2
65°	130.3	160.5	192.0	223.7	263.2	291.1	308.1	312.2	300.6	288.2	264.7
65.5°	121.3	150.4	181.1	212.4	250.5	276.9	293.1	296.7	284.1	274.0	252.1
66°	113.0	141.1	170.3	200.5	237.9	262.7	278.7	281.5	268.6	260.6	239.7



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	91.3	113.8	139.9	167.7	202.3	224.7	237.6	239.7	227.1	223.7	206.4
68°	86.7	105.3	130.3	157.7	190.4	212.9	225.8	227.3	214.7	211.8	195.3
68.5°	81.8	97.3	121.0	147.3	179.8	201.0	213.9	215.2	202.0	200.0	184.2
69°	77.2	90.8	112.2	137.8	169.3	189.1	202.0	203.1	189.4	188.4	174.4
69.5°	72.2	84.6	103.7	128.0	158.9	177.8	189.9	190.9	178.3	177.8	164.6
70°	69.9	78.4	96.0	119.5	149.1	167.5	179.3	180.6	168.0	167.7	155.3
70.5°	67.3	72.0	89.8	111.0	139.9	157.7	169.5	170.6	158.2	158.4	146.8
71°	64.5	65.8	83.6	102.7	131.1	148.1	159.7	160.8	148.9	149.1	138.3
71.5°	61.7	63.0	77.2	95.2	122.3	138.8	150.2	151.2	139.9	140.4	130.0
72°	58.6	60.4	71.0	89.0	114.0	130.6	141.4	142.7	131.3	131.9	122.3
72.5°	55.7	57.8	64.8	82.8	106.1	122.0	133.1	134.2	123.3	124.1	114.8
73°	52.9	55.0	59.9	76.6	98.8	114.3	125.1	126.4	115.6	116.1	107.6
73.5°	50.1	52.4	55.5	70.2	91.9	106.8	117.1	118.7	108.6	109.1	100.9
74°	47.5	49.8	51.6	64.0	85.1	99.9	110.2	111.5	101.4	102.2	94.4
74.5°	44.6	47.2	48.3	59.1	78.7	92.9	103.2	104.5	94.7	95.5	88.2
75°	42.3	44.6	45.2	54.4	72.8	86.4	96.8	97.8	88.2	89.3	82.1
75.5°	39.7	42.3	42.6	50.1	67.3	80.5	90.3	91.6	82.1	83.1	76.4
76°	37.4	39.7	40.0	46.2	61.9	74.6	84.1	85.4	75.9	77.2	71.0
76.5°	35.1	37.4	37.9	42.3	57.0	69.2	78.4	79.5	70.2	71.7	65.8
77°	32.8	35.1	35.6	39.0	52.4	64.0	72.8	74.1	64.5	66.3	60.9
77.5°	30.7	33.0	33.5	35.9	48.0	59.1	67.6	68.6	59.3	61.2	56.3
78°	28.4	30.7	31.5	33.0	43.9	54.4	62.4	63.5	54.2	56.3	51.6
78.5°	26.6	28.6	29.4	30.2	40.0	49.8	57.5	58.6	49.0	51.9	47.2
79°	24.5	26.6	27.6	27.6	36.4	45.7	52.9	53.7	44.4	47.2	43.1
79.5°	22.7	24.5	25.8	25.3	33.0	41.5	48.5	49.3	40.0	43.1	39.2
80°	20.9	22.7	24.0	23.2	29.9	37.7	44.1	44.9	35.6	39.0	35.4
80.5°	19.1	20.9	22.2	21.2	27.1	34.1	40.0	40.8	31.2	35.1	31.7
81°	17.3	19.1	20.4	19.4	24.5	30.7	36.1	36.9	27.6	31.5	28.4
81.5°	15.7	17.5	18.8	17.8	22.2	27.6	32.3	33.0	24.3	28.1	25.5
82°	14.2	15.7	17.3	16.3	19.9	24.8	28.6	29.7	20.6	25.3	22.7
82.5°	12.6	14.2	15.7	14.7	17.5	22.2	25.8	26.6	17.0	22.4	19.9
83°	11.1	12.6	14.2	13.4	15.2	19.6	23.0	23.7	13.7	19.6	17.0
83.5°	9.5	11.1	12.6	12.1	13.4	17.0	20.1	20.9	10.8	16.5	14.2
84°	8.3	9.5	11.4	10.8	11.6	14.4	17.0	17.8	8.0	13.7	12.1
84.5°	7.0	8.3	10.1	9.5	10.1	12.4	14.2	15.0	5.7	11.4	10.1
85°	5.7	7.0	8.8	8.5	8.8	10.3	11.9	12.1	3.9	9.3	8.3
85.5°	4.4	5.7	7.7	7.5	7.5	8.8	9.8	9.8	2.6	7.2	6.5
86°	3.4	4.6	6.5	6.5	6.2	7.0	8.0	7.5	1.8	5.4	4.9
86.5°	2.8	3.6	5.2	5.2	5.2	5.7	6.2	5.7	1.5	3.9	3.6
87°	2.1	2.8	4.1	4.1	4.1	4.4	4.6	4.1	1.0	2.6	2.6
87.5°	1.5	2.1	3.1	3.1	3.4	3.4	3.4	2.8	0.8	1.5	1.5
88°	1.0	1.5	2.1	2.3	2.6	2.3	2.1	1.5	0.5	0.8	0.8
88.5°	0.5	0.8	1.3	1.3	1.5	1.3	1.0	0.8	0.3	0.3	0.3



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

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: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
0.5°	1469.2	1468.7	1466.6	1465.3	1464.8	1465.3
1°	1469.5	1467.4	1464.1	1462.3	1461.2	1461.7
1.5°	1469.2	1465.9	1461.7	1458.6	1457.3	1458.1
2°	1469.2	1464.3	1458.9	1455.0	1453.2	1454.3
2.5°	1468.7	1462.5	1455.8	1451.4	1449.1	1449.9
3°	1468.2	1460.4	1452.7	1447.3	1444.7	1445.7
3.5°	1467.4	1458.1	1449.4	1443.2	1440.3	1441.4
4°	1466.4	1455.8	1446.0	1438.8	1435.7	1436.4
4.5°	1465.1	1453.2	1442.4	1434.1	1430.5	1431.8
5°	1463.8	1450.6	1438.5	1429.5	1425.4	1426.6
5.5°	1462.3	1447.5	1434.4	1424.6	1420.2	1421.5
6°	1460.4	1444.4	1430.0	1419.4	1414.8	1416.1
6.5°	1458.4	1441.1	1425.6	1414.3	1409.1	1410.6
7°	1456.3	1437.7	1421.2	1408.8	1403.2	1405.0
7.5°	1453.7	1433.9	1416.3	1403.2	1397.2	1399.0
8°	1451.4	1430.0	1411.4	1397.5	1391.3	1392.8
8.5°	1448.6	1426.1	1406.0	1391.6	1384.8	1386.6
9°	1445.7	1421.7	1400.8	1385.6	1378.4	1380.5
9.5°	1442.6	1417.1	1395.2	1379.2	1371.7	1373.7
10°	1439.3	1412.7	1389.5	1372.7	1365.0	1367.0
10.5°	1435.7	1407.8	1383.6	1366.3	1358.3	1360.3
11°	1432.1	1402.9	1377.6	1359.6	1351.3	1353.4
11.5°	1428.2	1397.5	1371.4	1352.6	1344.1	1346.1
12°	1424.3	1392.1	1365.0	1345.6	1336.6	1338.9
12.5°	1419.9	1386.6	1358.3	1338.1	1329.1	1331.4
13°	1415.5	1381.0	1351.6	1330.9	1321.6	1323.9
13.5°	1410.9	1374.8	1344.8	1323.4	1313.6	1316.2
14°	1406.0	1368.8	1337.6	1315.9	1305.9	1308.5
14.5°	1401.1	1362.4	1330.4	1308.2	1297.9	1300.5
15°	1395.7	1355.9	1323.2	1300.2	1289.6	1292.5
15.5°	1390.3	1349.5	1315.4	1292.0	1281.4	1284.2
16°	1384.8	1342.5	1307.7	1283.7	1273.1	1276.0
16.5°	1379.2	1335.6	1299.7	1275.4	1264.3	1267.4
17°	1373.2	1328.3	1291.7	1266.9	1255.8	1258.7
17.5°	1367.0	1321.1	1283.4	1258.2	1246.8	1250.2
18°	1360.6	1313.4	1275.2	1249.4	1238.0	1241.1
18.5°	1354.1	1305.6	1266.4	1240.3	1229.0	1232.3
19°	1347.4	1297.6	1257.9	1231.3	1219.7	1223.1
19.5°	1340.5	1289.6	1249.1	1222.0	1210.4	1213.8
20°	1333.5	1281.4	1240.1	1213.0	1201.1	1204.7
20.5°	1326.3	1273.1	1230.8	1203.4	1191.6	1194.9
21°	1318.8	1264.3	1221.5	1193.6	1181.8	1185.4



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1295.6	1237.8	1192.6	1164.2	1152.4	1156.2
23°	1287.3	1228.2	1182.8	1154.2	1142.3	1146.2
23.5°	1279.3	1219.2	1173.0	1144.1	1132.2	1136.1
24°	1270.8	1209.4	1162.7	1133.8	1121.7	1125.8
24.5°	1262.0	1199.8	1152.6	1123.5	1111.1	1115.2
25°	1253.2	1189.8	1142.0	1112.9	1100.8	1104.9
25.5°	1244.2	1180.0	1131.7	1102.0	1090.2	1094.3
26°	1235.2	1170.2	1120.9	1091.2	1079.3	1083.7
26.5°	1225.6	1159.6	1110.6	1080.6	1068.5	1072.9
27°	1216.3	1149.0	1099.5	1069.8	1057.7	1062.0
27.5°	1207.1	1138.7	1088.6	1058.7	1046.6	1051.0
28°	1197.3	1128.1	1077.3	1047.3	1035.2	1039.9
28.5°	1187.7	1117.5	1066.4	1036.2	1024.4	1028.8
29°	1177.4	1106.4	1055.1	1024.9	1012.8	1017.7
29.5°	1167.3	1095.6	1043.7	1013.5	1001.4	1006.3
30°	1157.0	1084.8	1032.4	1001.9	989.8	994.7
30.5°	1146.9	1073.4	1020.8	990.3	978.4	983.1
31°	1136.4	1062.0	1008.9	978.7	966.6	971.5
31.5°	1125.5	1050.7	997.5	966.8	955.0	959.9
32°	1114.7	1039.1	985.7	955.0	942.8	948.0
32.5°	1104.1	1027.7	973.8	943.1	931.2	936.1
33°	1093.0	1016.4	961.9	931.2	919.1	924.0
33.5°	1081.9	1004.5	950.1	919.1	907.2	912.1
34°	1070.8	992.6	937.9	907.0	895.1	900.0
34.5°	1059.5	980.8	925.6	894.8	883.0	887.6
35°	1048.1	968.9	913.4	882.5	870.3	875.2
35.5°	1036.8	956.8	901.6	870.1	858.5	863.1
36°	1025.4	945.2	889.2	857.9	846.1	850.7
36.5°	1013.8	932.8	877.0	845.6	833.4	838.3
37°	1001.9	920.6	864.4	832.9	821.0	825.7
37.5°	990.3	908.8	852.3	820.5	808.7	813.1
38°	978.4	896.4	839.6	807.9	796.0	800.1
38.5°	966.6	884.0	827.5	795.5	783.4	787.8
39°	954.7	872.1	815.1	783.1	770.7	775.4
39.5°	942.8	859.8	802.7	770.5	758.1	762.2
40°	930.7	847.4	790.1	757.6	745.2	749.1
40.5°	918.8	835.2	777.7	745.2	732.5	736.4
41°	906.7	822.6	765.3	732.5	719.4	723.5
41.5°	894.6	810.5	752.7	719.9	706.5	710.4
42°	882.5	798.3	740.3	707.3	693.8	697.2
42.5°	870.3	786.2	728.2	694.6	680.9	684.3
43°	858.5	774.1	715.8	682.0	668.0	671.4
43.5°	846.1	761.4	703.6	669.3	655.1	658.2

TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	810.0	725.1	666.5	631.7	616.4	618.5
45.5°	797.8	712.9	654.4	619.0	603.3	605.3
46°	786.0	701.3	642.5	606.9	590.4	592.2
46.5°	774.3	689.7	630.6	594.2	577.5	578.5
47°	762.7	678.1	618.5	581.9	564.6	565.1
47.5°	751.1	666.2	606.6	569.5	551.9	552.2
48°	740.0	655.4	595.0	557.1	539.0	539.0
48.5°	728.7	643.8	583.1	545.0	525.9	525.9
49°	716.8	632.2	571.8	533.1	513.2	512.4
49.5°	704.2	620.6	560.4	521.0	500.6	499.5
50°	691.3	608.4	548.8	508.8	487.7	486.1
50.5°	677.6	595.8	536.7	497.0	475.3	473.0
51°	663.7	583.1	525.1	485.1	462.4	459.3
51.5°	649.2	570.0	513.2	473.2	450.0	446.6
52°	634.5	556.8	501.1	461.6	437.6	433.5
52.5°	619.0	543.2	488.7	449.5	425.0	420.6
53°	603.8	529.5	476.3	437.6	412.8	407.7
53.5°	587.5	515.5	463.9	425.5	400.5	394.8
54°	571.3	501.6	451.3	413.9	388.3	381.6
54.5°	555.0	487.7	438.6	401.8	376.2	369.0
55°	539.0	473.5	425.7	389.6	364.3	356.3
55.5°	522.3	458.8	413.1	377.5	352.0	343.4
56°	505.7	444.6	400.2	365.6	340.1	331.3
56.5°	489.5	430.4	387.6	353.5	328.2	318.7
57°	473.2	415.9	374.4	341.6	316.3	306.3
57.5°	456.7	401.5	361.5	329.2	304.5	293.9
58°	440.7	387.3	348.9	317.6	293.1	282.0
58.5°	425.0	373.1	336.2	305.5	281.3	270.2
59°	408.7	358.9	323.6	293.6	269.6	258.0
59.5°	393.2	344.7	310.9	282.0	258.3	246.4
60°	377.8	331.1	298.5	270.4	246.9	234.8
60.5°	362.5	317.4	286.2	258.8	235.6	223.2
61°	347.3	304.0	274.0	247.5	224.5	211.8
61.5°	332.6	291.1	261.9	236.4	213.6	201.0
62°	318.7	278.2	250.0	225.3	203.1	189.9
62.5°	304.2	265.5	238.4	214.2	192.5	179.1
63°	290.3	252.9	227.1	203.3	182.2	168.8
63.5°	276.6	241.0	215.7	192.7	171.8	158.7
64°	263.4	229.1	204.6	182.2	162.0	148.6
64.5°	250.8	217.8	193.8	171.8	152.2	139.3
65°	238.4	206.4	183.2	161.8	143.2	130.3
65.5°	226.8	195.6	172.9	151.7	133.9	121.3
66°	215.5	184.7	162.6	142.2	125.1	113.0



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	182.4	155.1	134.2	114.8	100.4	91.3
68°	172.4	145.8	125.1	106.8	93.1	86.7
68.5°	162.8	137.0	116.9	98.8	87.5	81.8
69°	153.5	128.5	108.4	91.1	82.1	77.2
69.5°	144.8	120.5	100.6	85.1	76.6	72.2
70°	136.2	112.5	93.7	79.2	71.0	69.9
70.5°	128.2	105.0	87.7	73.3	65.5	67.3
71°	120.2	98.1	81.8	67.3	63.0	64.5
71.5°	113.0	91.1	75.9	62.7	60.6	61.7
72°	105.8	85.4	69.9	58.6	58.1	58.6
72.5°	99.1	79.7	64.0	54.7	55.2	55.7
73°	92.4	74.1	59.1	51.1	52.4	52.9
73.5°	86.2	68.1	54.7	48.0	49.8	50.1
74°	80.2	63.2	50.6	45.4	47.2	47.5
74.5°	74.8	58.3	46.7	43.1	44.6	44.6
75°	69.4	53.9	43.3	41.0	42.3	42.3
75.5°	64.2	49.5	40.0	38.7	39.7	39.7
76°	59.3	45.7	37.2	36.6	37.4	37.4
76.5°	55.0	41.8	34.3	34.6	35.1	35.1
77°	50.6	38.2	31.7	32.5	33.0	32.8
77.5°	46.4	35.1	29.4	30.4	31.0	30.7
78°	42.3	31.7	27.1	28.6	28.9	28.4
78.5°	38.7	28.9	25.0	26.8	26.8	26.6
79°	35.1	26.3	23.2	25.0	24.8	24.5
79.5°	32.0	23.7	21.4	23.2	23.0	22.7
80°	28.9	21.4	19.9	21.4	21.2	20.9
80.5°	25.8	19.4	18.6	19.9	19.4	19.1
81°	23.5	17.3	17.0	18.3	17.5	17.3
81.5°	21.2	15.5	15.7	16.8	16.0	15.7
82°	18.6	13.9	14.2	15.2	14.2	14.2
82.5°	16.3	12.4	12.9	13.7	12.6	12.6
83°	13.7	10.8	11.6	12.4	11.1	11.1
83.5°	11.9	9.5	10.3	11.1	9.5	9.5
84°	10.1	8.3	9.3	9.8	8.5	8.3
84.5°	8.5	7.2	8.0	8.5	7.2	7.0
85°	7.0	6.2	7.0	7.2	5.9	5.7
85.5°	5.7	4.9	5.7	6.2	4.6	4.4
86°	4.4	4.1	4.6	4.9	3.9	3.4
86.5°	3.4	3.1	3.6	3.9	3.1	2.8
87°	2.3	2.3	2.6	2.8	2.3	2.1
87.5°	1.5	1.3	1.5	1.8	1.5	1.5
88°	1.0	0.5	0.8	1.0	1.0	1.0
88.5°	0.3	0.3	0.3	0.3	0.5	0.5



TEST NUMBER: P776039

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-5000K

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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report





21.5°	1175.8	1193.6	1225.4	1270.8	1331.4	1380.2	1410.9	1421.7	1415.3	1394.6	1359.0
22°	1166.0	1184.1	1216.1	1262.0	1324.2	1373.7	1405.5	1416.1	1409.4	1388.2	1352.3



44°	644.6	667.3	704.4	760.2	847.1	928.4	988.3	1011.7	1004.8	973.0	913.9
44.5°	631.7	654.4	691.8	747.8	834.5	916.0	976.1	999.9	993.2	961.4	902.1



66.5°	105.0	131.9	160.0	189.4	226.0	249.3	264.5	267.1	253.6	247.2	228.6
67°	97.5	122.8	149.9	178.3	214.2	236.6	251.1	253.1	239.7	235.3	217.5



89°	0.3	0.3	0.5	0.5	1.0	0.8	0.5	0.3	0.0	0.0	0.0
89.5°	0.0	0.3	0.3	0.3	0.3	0.3	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





21.5°	1311.3	1255.6	1212.2	1183.8	1172.0	1175.8
22°	1303.3	1246.8	1202.4	1174.3	1162.2	1166.0



44°	834.0	749.3	691.0	656.7	642.0	644.6
44.5°	821.6	737.2	678.9	644.0	629.3	631.7



66.5°	203.8	174.7	152.8	132.4	116.6	105.0
67°	192.5	164.4	143.2	123.9	108.4	97.5

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

Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.3	0.3
89.5°	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



(END OF REPORT)