

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: P776224

Luminaire Tested: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776224
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: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K
Description: 8 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

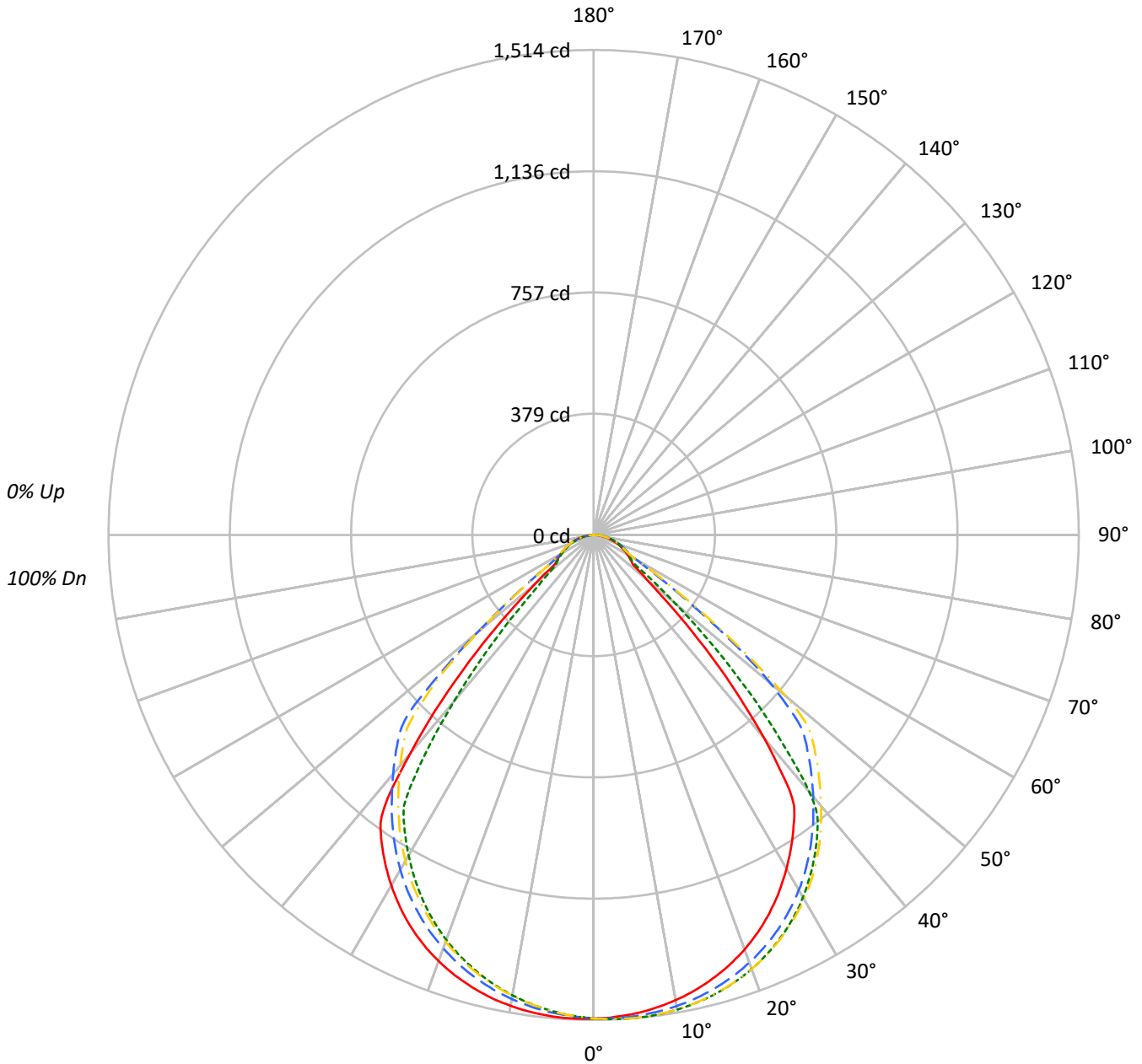
Lumens per Lamp: N/A
Luminaire Lumens: 2733.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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



TEST NUMBER: P776224
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P776224

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56								
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46								
8	69	57	50	44	67	56	49	44	55	49	44	54	48	44	53	48	44	42								
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	36191	36191	36191	36191
5°	36093	36432	36310	35912
10°	35906	36630	36352	35541
15°	35603	36767	36301	35027
20°	35142	36793	36117	34326
25°	34397	36627	35720	33326
30°	33317	36183	34962	31991
35°	31910	35323	33836	30256
40°	25855	32767	27871	21226
45°	15745	22540	17688	11669
50°	8073	12299	9028	6592
55°	6028	6296	5878	5640
60°	5827	5999	5664	5429
65°	5634	5901	5487	5237
70°	5461	5826	5300	5013
75°	5188	5827	5068	4660
80°	4667	5910	4667	4018
85°	3329	6328	3687	2339

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 33310 cd/sqm



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	5.2
10°-20°	408.2	14.9
20°-30°	610.2	22.3
30°-40°	700.2	25.6
40°-50°	508.5	18.6
50°-60°	186.3	6.8
60°-70°	99.9	3.7
70°-80°	60.4	2.2
80°-90°	16.9	0.6
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°	1161.2	42.5
0°-40°	1861.4	68.1
0°-60°	2556.2	93.5
0°-90°	2733.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1509	1509	1509	1509	1509	
5°	1500	1514	1508	1492	1500	142
15°	1434	1481	1462	1411	1434	404
25°	1300	1384	1350	1260	1300	598
35°	1090	1207	1156	1034	1090	665
45°	464	665	522	344	464	366
55°	144	151	141	135	144	135
65°	99	104	97	92	99	98
75°	56	63	55	50	56	59
85°	12	23	13	8	12	15
90°	0	4	0	0	0	



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3
0.5°	1509.8	1510.0	1509.3	1509.0	1510.3	1510.3	1510.3	1510.8	1510.8	1510.0	1508.0
1°	1509.3	1509.8	1509.5	1509.8	1511.3	1511.1	1511.1	1511.3	1511.1	1509.8	1507.2
1.5°	1508.5	1509.5	1509.8	1510.3	1512.1	1511.8	1511.8	1511.8	1511.1	1509.5	1506.4
2°	1507.7	1509.0	1509.8	1510.6	1512.6	1512.6	1512.4	1512.1	1511.1	1509.3	1505.7
2.5°	1506.4	1508.5	1509.8	1511.1	1513.1	1513.1	1512.9	1512.1	1511.1	1508.7	1504.4
3°	1505.4	1507.7	1509.5	1511.3	1513.6	1513.6	1513.1	1512.1	1510.8	1508.2	1503.3
3.5°	1504.4	1506.9	1509.3	1511.3	1513.6	1513.9	1513.4	1512.4	1510.6	1507.5	1501.8
4°	1502.8	1505.9	1509.0	1511.3	1513.6	1513.9	1513.6	1512.1	1510.0	1506.4	1500.2
4.5°	1501.3	1504.9	1508.2	1510.8	1513.6	1513.9	1513.4	1511.8	1509.3	1505.4	1498.7
5°	1499.5	1503.6	1507.7	1510.6	1513.6	1513.9	1513.4	1511.3	1508.5	1504.1	1496.9
5.5°	1497.7	1502.3	1506.7	1510.0	1513.4	1513.4	1512.9	1510.8	1507.5	1502.6	1495.1
6°	1495.6	1500.8	1505.9	1509.5	1512.9	1513.1	1512.4	1510.0	1506.4	1501.3	1493.0
6.5°	1493.8	1498.9	1504.6	1508.7	1512.4	1512.6	1511.8	1509.3	1505.1	1499.7	1490.9
7°	1491.5	1497.1	1503.6	1508.0	1511.6	1512.1	1511.1	1508.2	1503.8	1497.9	1488.4
7.5°	1488.9	1495.3	1502.0	1506.9	1510.8	1511.6	1510.3	1507.2	1502.3	1496.1	1486.0
8°	1486.3	1493.3	1500.8	1505.9	1509.8	1510.6	1509.3	1505.9	1500.8	1494.0	1483.2
8.5°	1483.7	1490.9	1498.9	1504.4	1508.7	1509.5	1508.2	1504.6	1498.9	1491.7	1480.4
9°	1480.9	1488.6	1497.1	1503.1	1507.5	1508.5	1506.9	1503.1	1497.1	1489.4	1477.5
9.5°	1477.8	1486.0	1495.3	1501.5	1506.2	1506.9	1505.7	1501.5	1495.1	1486.8	1474.4
10°	1474.7	1483.2	1493.5	1500.0	1504.4	1505.7	1503.8	1499.5	1493.0	1484.2	1471.3
10.5°	1471.3	1480.4	1491.2	1498.2	1502.8	1504.1	1502.3	1497.4	1490.4	1481.7	1467.7
11°	1468.0	1477.5	1488.9	1496.1	1501.0	1502.6	1500.5	1495.3	1487.9	1478.6	1464.1
11.5°	1464.4	1474.4	1486.0	1494.0	1499.2	1500.5	1498.4	1493.0	1485.3	1475.7	1460.5
12°	1460.5	1471.1	1483.7	1491.7	1497.1	1498.4	1496.4	1490.7	1482.7	1472.4	1456.9
12.5°	1456.4	1467.7	1480.9	1489.4	1494.8	1496.4	1494.3	1488.4	1479.6	1468.8	1452.8
13°	1452.5	1463.9	1478.1	1486.8	1492.5	1494.0	1491.7	1485.5	1476.5	1465.2	1448.6
13.5°	1448.1	1460.3	1475.0	1484.2	1489.9	1491.7	1489.1	1482.7	1473.1	1461.5	1444.3
14°	1443.7	1456.1	1471.9	1481.4	1487.1	1488.9	1486.6	1479.6	1469.8	1457.7	1439.6
14.5°	1439.1	1452.3	1468.5	1478.6	1484.2	1486.3	1483.7	1476.5	1466.2	1453.8	1435.0
15°	1434.2	1447.9	1464.9	1475.2	1481.1	1483.5	1480.6	1473.1	1462.3	1449.4	1430.3
15.5°	1429.3	1443.5	1461.3	1471.9	1478.1	1480.1	1477.8	1469.8	1458.4	1445.3	1425.4
16°	1424.1	1438.6	1457.4	1468.5	1474.7	1477.0	1474.4	1466.2	1454.3	1440.6	1420.3
16.5°	1419.0	1434.2	1453.3	1464.9	1471.3	1473.7	1470.8	1462.3	1450.2	1436.0	1414.9
17°	1413.6	1429.3	1449.2	1461.0	1467.5	1470.1	1467.2	1458.4	1445.8	1431.4	1409.4
17.5°	1407.9	1424.1	1445.0	1457.2	1463.6	1466.4	1463.3	1454.3	1441.2	1426.5	1403.8
18°	1402.2	1419.0	1440.4	1453.0	1459.7	1462.6	1459.7	1449.7	1436.3	1421.3	1398.1
18.5°	1396.0	1413.6	1435.7	1448.9	1455.6	1458.4	1455.6	1445.5	1431.4	1415.9	1391.9
19°	1389.8	1407.9	1431.1	1444.3	1451.2	1454.3	1451.2	1440.6	1426.2	1410.5	1385.7
19.5°	1383.6	1402.0	1425.9	1439.6	1446.6	1449.9	1446.8	1436.3	1421.0	1404.8	1379.5
20°	1377.2	1396.0	1420.8	1435.0	1441.9	1445.5	1442.2	1430.8	1415.4	1399.1	1373.1
20.5°	1370.2	1389.8	1415.6	1430.1	1437.0	1440.6	1437.6	1425.9	1409.7	1393.2	1366.4
21°	1363.3	1383.6	1410.2	1424.9	1432.1	1436.0	1432.4	1420.5	1404.0	1386.7	1359.4



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1341.1	1363.5	1392.4	1408.4	1415.6	1420.0	1416.7	1403.5	1385.4	1367.1	1338.2
23°	1333.3	1356.3	1386.2	1402.7	1410.0	1414.3	1411.2	1397.6	1378.7	1360.2	1330.8
23.5°	1325.3	1349.1	1380.0	1396.5	1403.8	1408.7	1405.3	1391.4	1371.8	1352.9	1323.0
24°	1317.1	1341.3	1373.3	1390.3	1397.8	1402.7	1399.1	1384.7	1365.1	1345.7	1315.3
24.5°	1308.8	1333.6	1366.6	1384.2	1391.4	1396.5	1393.2	1378.2	1357.6	1338.2	1307.0
25°	1300.1	1325.6	1359.7	1377.2	1384.4	1390.1	1386.7	1371.5	1350.1	1330.5	1299.0
25.5°	1291.3	1317.3	1352.7	1370.5	1378.0	1383.4	1380.3	1364.6	1342.6	1322.5	1290.5
26°	1282.5	1309.1	1345.2	1363.5	1370.7	1376.9	1373.6	1357.3	1334.6	1314.5	1282.0
26.5°	1273.2	1300.6	1338.0	1356.3	1363.5	1370.0	1366.6	1349.6	1326.4	1306.0	1273.2
27°	1264.0	1291.8	1330.5	1349.1	1356.0	1362.2	1359.7	1341.9	1317.9	1297.5	1264.2
27.5°	1253.9	1282.8	1322.5	1341.6	1348.3	1355.0	1352.4	1334.1	1309.4	1288.7	1255.2
28°	1244.3	1273.8	1314.3	1333.6	1340.3	1347.5	1344.9	1326.1	1300.6	1279.7	1246.2
28.5°	1233.8	1264.5	1306.3	1325.9	1332.1	1339.5	1337.2	1317.6	1291.6	1270.4	1236.4
29°	1224.2	1254.9	1297.7	1317.3	1324.3	1331.3	1329.5	1309.4	1282.0	1261.1	1226.8
29.5°	1213.4	1245.1	1289.2	1309.1	1315.0	1323.0	1321.5	1300.3	1272.7	1251.1	1216.7
30°	1203.3	1235.1	1280.5	1300.6	1306.8	1314.5	1313.0	1291.6	1262.7	1241.5	1206.9
30.5°	1192.2	1225.0	1271.7	1291.8	1297.0	1305.7	1304.7	1282.3	1253.1	1231.5	1196.4
31°	1181.9	1214.9	1262.4	1282.5	1288.5	1297.0	1295.9	1273.0	1243.1	1221.1	1186.1
31.5°	1170.8	1204.1	1252.9	1273.5	1278.1	1287.4	1287.2	1263.4	1233.0	1210.8	1175.5
32°	1160.0	1193.5	1243.3	1264.0	1268.3	1278.4	1277.9	1253.6	1222.7	1200.5	1164.6
32.5°	1148.4	1183.0	1233.5	1254.2	1258.5	1268.6	1268.6	1243.8	1212.1	1189.9	1153.3
33°	1137.6	1172.4	1223.2	1244.3	1248.7	1259.1	1259.1	1233.8	1201.3	1179.3	1142.2
33.5°	1125.9	1161.3	1213.4	1234.5	1238.2	1249.0	1249.2	1223.7	1190.4	1168.8	1130.9
34°	1114.3	1150.5	1202.8	1224.2	1227.6	1238.7	1239.2	1213.1	1179.3	1157.9	1119.2
34.5°	1101.7	1139.1	1192.2	1213.9	1217.0	1228.4	1229.1	1202.8	1167.5	1146.8	1107.6
35°	1090.1	1127.8	1181.4	1203.3	1206.7	1218.3	1218.8	1192.2	1155.9	1135.5	1095.8
35.5°	1078.0	1116.1	1170.6	1192.8	1195.1	1207.7	1208.0	1181.7	1144.0	1123.9	1083.9
36°	1065.3	1104.5	1159.2	1181.9	1184.0	1196.9	1197.1	1170.6	1131.9	1112.3	1071.8
36.5°	1052.2	1092.4	1148.1	1171.3	1172.1	1186.3	1186.1	1159.2	1118.5	1100.4	1059.4
37°	1030.0	1080.3	1136.8	1160.3	1160.3	1175.0	1175.0	1147.6	1098.9	1088.0	1047.3
37.5°	1003.4	1068.2	1125.2	1148.9	1148.1	1163.6	1163.4	1136.0	1074.4	1075.9	1034.6
38°	967.8	1055.5	1113.6	1137.6	1135.8	1151.7	1152.0	1123.9	1043.9	1062.8	1022.3
38.5°	932.2	1042.6	1101.4	1125.9	1121.8	1140.1	1140.1	1112.0	1008.1	1048.0	1010.1
39°	897.7	1023.3	1089.6	1114.3	1102.0	1128.0	1128.5	1099.6	970.1	1024.1	997.7
39.5°	862.6	997.5	1077.7	1102.2	1077.5	1115.6	1116.4	1085.7	930.4	997.5	985.4
40°	826.0	963.7	1065.6	1089.8	1046.8	1103.0	1104.0	1063.0	890.4	965.8	973.2
40.5°	787.8	928.4	1053.5	1077.2	1011.9	1089.3	1091.6	1040.1	852.5	930.4	961.4
41°	748.8	894.6	1041.1	1064.6	972.5	1067.9	1079.8	1009.9	816.2	895.3	949.3
41.5°	710.4	860.5	1029.0	1050.9	932.5	1044.2	1067.4	976.3	779.0	855.9	937.1
42°	673.8	824.9	1016.6	1032.6	892.2	1015.3	1055.3	940.0	741.6	819.8	924.7
42.5°	638.9	787.8	1004.2	1008.8	854.1	981.0	1043.1	901.8	702.9	784.7	912.6
43°	603.1	750.9	992.1	980.7	816.9	943.8	1030.8	864.6	664.7	751.4	900.2
43.5°	567.5	713.7	979.4	949.0	779.5	904.6	1018.9	828.5	626.8	714.8	887.6



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	464.3	606.2	942.3	839.9	664.7	792.2	982.3	721.0	521.6	608.8	847.9
45.5°	431.5	572.1	929.6	803.5	626.0	756.3	969.6	684.1	486.8	571.9	827.0
46°	400.9	537.8	916.8	769.2	590.2	719.7	957.0	647.5	453.7	539.1	802.2
46.5°	370.7	503.0	903.9	734.9	555.1	681.8	944.4	610.3	421.0	505.3	767.7
47°	341.3	469.2	890.4	699.6	520.0	643.8	931.5	575.2	389.8	474.9	725.1
47.5°	314.7	437.0	866.7	664.0	485.5	606.7	918.0	541.2	359.6	441.6	682.5
48°	289.2	405.8	841.9	628.4	451.2	571.9	904.1	508.2	332.8	411.7	638.9
48.5°	266.5	375.8	811.0	592.5	418.7	537.6	882.7	474.4	306.2	381.2	596.9
49°	247.1	346.4	780.6	559.5	387.2	503.0	853.0	441.6	281.9	351.8	556.4
49.5°	230.6	319.1	749.6	525.2	357.5	469.5	820.3	409.9	259.0	325.3	516.4
50°	216.4	292.8	719.7	494.2	329.7	435.9	780.3	379.2	242.0	300.5	476.9
50.5°	204.6	268.8	687.2	462.2	303.9	403.7	737.7	350.3	225.2	276.0	439.5
51°	193.5	247.6	649.5	430.5	279.1	373.0	692.9	321.9	208.4	253.6	404.7
51.5°	182.4	230.6	611.3	398.5	256.7	343.6	647.7	296.4	191.7	235.8	372.2
52°	171.5	215.6	571.4	369.6	238.9	316.0	603.9	272.4	174.9	218.0	340.8
52.5°	162.0	203.0	530.3	341.0	220.8	290.2	560.8	253.8	161.7	200.4	312.1
53°	155.0	191.4	490.6	314.7	203.0	265.9	521.1	235.2	152.4	182.6	286.1
53.5°	151.7	180.8	452.2	288.9	185.2	247.6	483.1	216.7	148.3	168.4	262.1
54°	148.8	170.0	415.8	266.2	171.8	229.3	446.0	198.1	145.5	155.8	244.0
54.5°	146.5	159.7	380.7	243.5	159.2	211.0	409.6	179.5	142.9	146.5	226.2
55°	144.2	151.4	349.8	223.9	150.6	192.7	374.8	166.4	140.6	142.4	208.7
55.5°	141.6	146.5	320.4	205.8	146.8	174.4	342.0	153.7	138.0	139.6	190.9
56°	139.3	143.7	291.7	189.6	144.2	160.7	311.6	143.9	135.7	137.2	173.3
56.5°	137.0	141.4	265.9	174.6	141.6	148.8	285.3	139.8	133.4	134.6	161.7
57°	134.6	138.8	243.0	161.0	139.0	141.6	263.6	137.0	131.0	132.3	151.9
57.5°	132.3	136.5	222.1	148.8	136.7	138.5	242.0	134.6	129.0	130.0	143.7
58°	130.3	134.1	203.5	141.1	134.4	136.2	220.0	132.1	126.7	127.7	137.0
58.5°	127.9	131.8	187.5	138.0	132.1	133.6	198.4	130.0	124.6	125.6	131.3
59°	125.9	129.5	173.3	135.4	129.7	131.3	177.0	127.7	122.3	123.3	126.4
59.5°	123.6	127.4	162.0	132.8	127.4	129.0	162.5	125.4	120.2	121.2	122.3
60°	121.5	125.1	152.4	130.5	125.1	126.7	151.2	123.3	118.1	119.2	118.7
60.5°	119.2	123.0	144.7	128.2	122.8	124.3	142.4	121.0	116.1	117.1	115.8
61°	117.1	121.0	138.3	125.9	120.7	122.0	134.6	118.9	114.0	115.0	113.5
61.5°	114.8	118.9	132.3	123.8	118.7	119.9	129.0	116.9	111.7	113.0	111.2
62°	112.7	116.6	127.4	121.5	116.6	117.9	123.8	114.8	109.6	110.9	108.6
62.5°	110.4	114.5	123.0	119.4	114.5	115.8	119.7	112.7	107.3	108.9	106.3
63°	108.1	112.5	119.7	117.1	112.2	113.8	115.8	110.7	105.2	106.5	104.0
63.5°	106.0	110.4	117.1	115.0	110.1	111.7	113.0	108.6	103.2	104.5	101.9
64°	103.7	108.3	114.5	113.0	108.1	109.6	110.4	106.5	100.9	102.1	99.6
64.5°	101.6	106.0	112.2	110.7	106.0	107.6	108.1	104.5	98.8	100.1	97.2
65°	99.3	104.0	109.9	108.6	104.0	105.5	105.8	102.4	96.7	98.0	94.9
65.5°	97.0	101.9	107.3	106.5	101.6	103.4	103.4	100.3	94.4	95.7	92.9
66°	94.9	99.6	105.0	104.5	99.6	101.4	101.1	98.0	92.3	93.6	90.5



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	88.5	94.2	98.3	98.0	93.4	95.2	94.4	91.6	86.2	87.2	83.8
68°	86.4	91.8	96.0	95.7	91.3	93.1	92.1	89.5	84.1	84.9	81.5
68.5°	84.3	89.5	93.1	93.4	89.3	90.8	90.0	87.4	82.0	82.8	79.2
69°	82.3	86.9	91.1	91.3	87.2	88.7	87.7	85.1	80.0	80.5	77.1
69.5°	80.0	84.6	89.0	89.3	85.1	86.7	85.6	83.1	77.9	78.4	74.8
70°	77.9	82.5	86.7	87.4	83.1	84.6	83.3	81.0	75.6	76.4	72.5
70.5°	75.6	80.2	84.6	85.4	81.3	82.5	81.3	78.9	73.5	74.0	70.4
71°	73.5	78.2	82.3	83.1	79.2	80.5	78.9	76.6	71.5	72.0	68.1
71.5°	71.2	76.1	80.2	81.0	77.1	78.4	76.9	74.5	69.4	69.9	65.8
72°	69.1	73.8	77.9	78.9	75.1	76.4	74.5	72.5	67.3	67.6	63.7
72.5°	66.8	71.5	75.6	76.9	73.3	74.3	72.5	70.4	65.3	65.5	61.4
73°	64.7	69.4	73.3	74.5	71.2	72.2	70.2	68.1	63.2	63.5	59.3
73.5°	62.4	67.1	71.2	72.5	69.1	70.2	68.1	66.0	61.1	61.1	57.0
74°	60.4	65.0	68.9	70.4	67.1	68.1	66.0	64.0	59.1	59.1	54.7
74.5°	58.0	62.7	66.6	68.4	65.0	66.0	63.7	61.9	56.7	56.7	52.6
75°	56.0	60.6	64.5	66.3	62.9	64.0	61.6	59.6	54.7	54.7	50.3
75.5°	53.7	58.3	62.2	64.2	61.1	61.9	59.6	57.5	52.6	52.4	48.0
76°	51.3	56.0	59.8	61.9	59.1	59.8	57.3	55.2	50.6	50.0	45.9
76.5°	49.3	53.7	57.8	59.8	57.0	57.8	55.2	53.1	48.5	48.0	43.6
77°	46.9	51.6	55.5	57.8	54.9	55.7	53.1	51.1	46.2	45.9	41.5
77.5°	44.9	49.3	53.1	55.5	52.9	53.7	50.8	48.8	44.1	43.6	39.2
78°	42.6	46.9	51.1	53.4	50.8	51.6	48.8	46.7	42.0	41.5	37.1
78.5°	40.5	44.9	48.8	51.3	48.8	49.5	46.7	44.4	40.0	39.2	34.8
79°	38.2	42.6	46.7	49.0	46.9	47.5	44.4	42.3	37.9	37.1	32.8
79.5°	36.1	40.2	44.4	46.9	44.9	45.4	42.3	40.2	35.9	34.8	30.4
80°	33.8	38.2	42.0	44.9	42.8	43.1	40.2	37.9	33.8	32.8	28.4
80.5°	31.7	35.9	40.0	42.6	40.8	41.3	38.2	35.9	31.7	30.4	26.3
81°	29.7	33.5	37.9	40.5	39.0	39.2	36.1	33.8	29.7	28.4	24.0
81.5°	27.3	31.2	35.6	38.4	36.9	36.9	33.8	31.7	27.6	26.1	21.9
82°	25.3	29.1	33.3	36.1	34.8	35.1	31.7	29.4	25.5	24.0	19.9
82.5°	23.0	26.8	31.2	34.0	32.8	32.8	29.7	27.3	23.5	21.7	17.5
83°	20.9	24.8	29.1	32.0	31.0	30.7	27.6	25.3	21.4	19.6	15.5
83.5°	18.6	22.4	26.8	29.9	28.9	28.6	25.5	23.0	19.3	17.3	13.7
84°	16.5	20.1	24.8	27.9	26.8	26.6	23.5	20.9	17.3	15.2	11.9
84.5°	14.4	18.1	22.4	25.5	25.0	24.5	21.4	18.8	15.2	13.2	10.1
85°	12.1	15.7	20.4	23.5	23.0	22.7	19.3	16.5	13.4	10.8	8.3
85.5°	10.1	13.7	18.3	21.4	20.9	20.6	17.3	14.4	11.3	8.8	6.4
86°	8.5	11.3	16.0	19.3	19.1	18.6	15.2	12.4	9.5	7.0	4.9
86.5°	6.7	9.0	14.2	17.5	17.0	16.5	13.4	10.1	7.5	5.4	3.1
87°	5.2	7.5	12.4	15.5	15.0	14.4	11.6	8.3	5.7	4.1	1.5
87.5°	3.6	5.9	10.6	13.4	13.2	12.6	9.8	6.7	4.4	2.8	0.3
88°	2.1	4.4	9.0	11.6	11.1	10.6	8.3	5.2	3.1	1.5	0.0
88.5°	0.8	2.8	7.2	9.5	9.3	8.8	6.4	3.9	1.8	0.3	0.0



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-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	2.1	3.9	3.6	3.1	1.5	0.3	0.0	0.0	0.0



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3
0.5°	1507.2	1508.2	1508.0	1508.2	1509.0	1509.8
1°	1506.2	1506.9	1506.4	1506.9	1508.0	1509.3
1.5°	1504.9	1505.7	1504.9	1505.4	1506.9	1508.5
2°	1503.6	1504.1	1503.3	1504.1	1505.7	1507.7
2.5°	1502.0	1502.3	1501.8	1502.3	1504.1	1506.4
3°	1500.5	1500.8	1499.7	1500.8	1502.6	1505.4
3.5°	1498.7	1498.7	1497.9	1498.7	1501.0	1504.4
4°	1496.9	1496.6	1495.6	1496.6	1499.2	1502.8
4.5°	1494.8	1494.3	1493.5	1494.6	1497.4	1501.3
5°	1492.8	1492.0	1490.9	1492.0	1495.1	1499.5
5.5°	1490.4	1489.4	1488.4	1489.7	1493.0	1497.7
6°	1487.9	1486.8	1485.5	1487.1	1490.7	1495.6
6.5°	1485.3	1484.0	1482.7	1484.2	1488.4	1493.8
7°	1482.4	1480.9	1479.6	1481.4	1485.5	1491.5
7.5°	1479.6	1477.8	1476.2	1478.3	1483.0	1488.9
8°	1476.5	1474.4	1472.9	1475.2	1479.9	1486.3
8.5°	1473.1	1471.1	1469.5	1471.9	1476.8	1483.7
9°	1469.8	1467.2	1465.9	1468.2	1473.7	1480.9
9.5°	1466.2	1463.6	1462.1	1464.6	1470.3	1477.8
10°	1462.6	1459.7	1457.9	1460.8	1466.7	1474.7
10.5°	1458.4	1455.6	1453.8	1456.9	1463.1	1471.3
11°	1454.6	1451.2	1449.7	1452.8	1459.2	1468.0
11.5°	1450.2	1446.8	1445.3	1448.6	1455.4	1464.4
12°	1446.1	1442.2	1440.4	1444.0	1451.0	1460.5
12.5°	1441.4	1437.3	1435.7	1439.6	1446.6	1456.4
13°	1436.8	1432.4	1430.6	1434.7	1442.5	1452.5
13.5°	1431.9	1427.2	1425.7	1430.1	1437.8	1448.1
14°	1427.0	1422.1	1420.3	1424.9	1432.9	1443.7
14.5°	1421.8	1416.7	1414.9	1419.8	1428.0	1439.1
15°	1416.4	1411.0	1408.9	1414.3	1422.8	1434.2
15.5°	1411.0	1405.3	1403.5	1408.9	1417.4	1429.3
16°	1405.3	1399.1	1397.6	1403.0	1412.3	1424.1
16.5°	1399.6	1393.2	1391.4	1397.3	1406.6	1419.0
17°	1393.4	1387.0	1384.9	1391.1	1400.9	1413.6
17.5°	1387.3	1380.3	1378.5	1385.2	1395.0	1407.9
18°	1381.1	1373.6	1372.0	1378.7	1388.8	1402.2
18.5°	1374.4	1366.6	1365.3	1372.0	1382.6	1396.0
19°	1367.6	1359.7	1357.8	1365.6	1376.2	1389.8
19.5°	1360.9	1352.7	1350.9	1358.6	1369.7	1383.6
20°	1354.0	1345.2	1343.7	1351.7	1362.7	1377.2
20.5°	1346.5	1337.5	1336.2	1344.7	1355.8	1370.2
21°	1339.3	1329.7	1328.4	1337.0	1348.6	1363.3



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1315.8	1305.0	1304.2	1314.0	1325.9	1341.1
23°	1307.8	1296.2	1295.7	1306.0	1318.1	1333.3
23.5°	1299.3	1287.7	1287.2	1298.0	1310.1	1325.3
24°	1290.8	1278.4	1278.4	1289.5	1301.9	1317.1
24.5°	1282.0	1269.1	1269.1	1281.0	1293.4	1308.8
25°	1273.0	1259.6	1259.8	1272.2	1284.8	1300.1
25.5°	1264.0	1250.0	1250.5	1263.4	1275.8	1291.3
26°	1254.4	1240.2	1241.0	1254.2	1267.0	1282.5
26.5°	1244.9	1230.4	1231.2	1244.9	1257.8	1273.2
27°	1235.3	1220.1	1221.1	1235.6	1248.5	1264.0
27.5°	1225.3	1209.5	1211.1	1226.0	1238.7	1253.9
28°	1215.2	1198.9	1200.5	1216.0	1228.9	1244.3
28.5°	1204.9	1188.1	1190.2	1206.2	1219.1	1233.8
29°	1194.6	1177.3	1179.6	1195.9	1209.3	1224.2
29.5°	1184.0	1166.4	1168.8	1185.5	1198.7	1213.4
30°	1173.2	1155.4	1157.7	1175.2	1188.4	1203.3
30.5°	1162.3	1144.0	1146.8	1164.4	1177.8	1192.2
31°	1151.5	1132.7	1135.8	1153.8	1167.0	1181.9
31.5°	1140.4	1121.0	1124.1	1142.7	1156.1	1170.8
32°	1129.3	1109.2	1112.8	1131.6	1145.0	1160.0
32.5°	1118.2	1097.3	1101.7	1120.0	1133.9	1148.4
33°	1106.6	1085.2	1090.1	1108.9	1122.9	1137.6
33.5°	1095.0	1072.8	1078.0	1097.3	1111.2	1125.9
34°	1083.1	1060.4	1066.4	1085.7	1100.4	1114.3
34.5°	1071.5	1047.3	1054.0	1073.3	1088.8	1101.7
35°	1059.4	1033.6	1041.9	1061.7	1077.2	1090.1
35.5°	1047.3	1006.3	1029.2	1049.9	1065.6	1078.0
36°	1034.9	975.0	1016.8	1037.5	1053.7	1065.3
36.5°	1022.3	940.0	1003.2	1025.3	1041.3	1052.2
37°	1008.8	904.9	984.1	1013.2	1029.2	1030.0
37.5°	993.1	868.8	957.0	1000.8	1016.8	1003.4
38°	966.5	831.6	923.7	988.5	1004.2	967.8
38.5°	934.6	793.5	889.4	976.1	991.8	932.2
39°	900.8	754.2	857.2	964.0	978.4	897.7
39.5°	866.7	714.8	822.3	951.6	957.3	862.6
40°	832.7	678.1	786.7	939.5	931.7	826.0
40.5°	796.8	641.8	749.3	926.8	898.7	787.8
41°	759.9	606.7	713.0	914.4	865.7	748.8
41.5°	722.3	570.6	676.6	902.0	833.7	710.4
42°	685.6	536.0	641.3	889.9	800.7	673.8
42.5°	649.5	500.4	607.5	877.5	767.7	638.9
43°	614.4	466.6	575.0	865.2	732.8	603.1
43.5°	580.6	434.1	541.2	852.3	697.5	567.5



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	479.5	344.1	442.1	791.1	595.1	464.3
45.5°	447.0	316.0	411.4	762.2	563.1	431.5
46°	415.6	290.5	382.3	732.6	530.6	400.9
46.5°	385.4	267.8	353.4	704.5	498.1	370.7
47°	356.2	248.9	325.3	675.3	465.6	341.3
47.5°	328.4	232.9	299.5	645.4	434.6	314.7
48°	301.0	219.8	275.5	609.3	404.7	289.2
48.5°	277.0	208.2	254.9	571.9	375.8	266.5
49°	254.9	197.6	237.3	532.4	347.5	247.1
49.5°	240.7	187.0	222.1	495.3	321.1	230.6
50°	227.0	176.7	209.5	459.9	294.8	216.4
50.5°	213.3	166.1	198.4	426.6	271.1	204.6
51°	199.4	157.9	188.0	393.9	249.4	193.5
51.5°	185.7	152.4	177.7	364.5	231.1	182.4
52°	175.1	149.4	167.4	336.1	215.1	171.5
52.5°	165.1	146.8	157.6	308.2	201.5	162.0
53°	155.0	144.5	150.1	283.2	189.6	155.0
53.5°	147.0	142.1	146.5	260.5	178.8	151.7
54°	142.6	139.6	143.7	238.9	167.9	148.8
54.5°	140.1	137.2	141.4	221.1	157.9	146.5
55°	137.5	134.9	138.8	203.8	149.4	144.2
55.5°	135.2	132.6	136.5	188.8	144.2	141.6
56°	132.8	130.5	134.1	175.1	141.6	139.3
56.5°	130.5	128.2	131.8	164.6	139.0	137.0
57°	128.5	126.1	129.5	155.0	136.7	134.6
57.5°	126.1	123.8	127.4	147.3	134.4	132.3
58°	124.1	121.8	125.4	140.6	132.1	130.3
58.5°	122.0	119.7	123.0	135.2	129.7	127.9
59°	119.7	117.6	121.0	130.0	127.7	125.9
59.5°	117.6	115.6	118.9	125.6	125.4	123.6
60°	115.6	113.2	116.6	122.3	123.0	121.5
60.5°	113.5	111.2	114.8	119.7	121.0	119.2
61°	111.4	109.1	112.7	117.4	118.7	117.1
61.5°	109.1	107.0	110.7	115.0	116.6	114.8
62°	107.0	104.7	108.3	112.5	114.3	112.7
62.5°	105.0	102.7	106.3	110.1	112.2	110.4
63°	102.7	100.6	104.2	107.8	109.9	108.1
63.5°	100.6	98.3	101.9	105.5	107.6	106.0
64°	98.5	96.2	99.8	103.2	105.2	103.7
64.5°	96.2	94.4	97.5	100.9	102.9	101.6
65°	94.2	92.3	95.4	98.5	100.9	99.3
65.5°	91.8	90.3	92.9	96.5	98.5	97.0
66°	89.8	88.2	91.1	94.2	96.2	94.9



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	83.3	81.8	85.1	87.2	89.5	88.5
68°	81.3	79.7	82.8	85.1	87.2	86.4
68.5°	78.9	77.6	80.7	82.8	84.9	84.3
69°	76.9	75.6	78.7	80.5	82.8	82.3
69.5°	74.5	73.5	76.4	78.2	80.5	80.0
70°	72.5	71.5	74.3	75.8	78.2	77.9
70.5°	70.4	69.4	72.0	73.5	75.8	75.6
71°	68.4	67.3	69.9	71.2	73.8	73.5
71.5°	66.0	65.3	67.8	68.9	71.5	71.2
72°	64.0	62.9	65.5	66.6	69.1	69.1
72.5°	61.6	60.9	63.2	64.2	66.8	66.8
73°	59.6	58.8	61.1	62.2	64.5	64.7
73.5°	57.3	56.5	58.8	59.8	62.2	62.4
74°	55.2	54.4	56.7	57.5	60.1	60.4
74.5°	52.9	52.4	54.4	55.2	57.8	58.0
75°	50.8	50.3	52.1	52.9	55.5	56.0
75.5°	48.5	48.0	50.0	50.6	52.9	53.7
76°	46.4	45.9	47.7	48.2	50.8	51.3
76.5°	44.1	43.9	45.7	45.9	48.5	49.3
77°	42.0	41.8	43.3	43.9	46.2	46.9
77.5°	39.7	39.7	41.3	41.5	43.9	44.9
78°	37.7	37.7	39.0	39.2	41.5	42.6
78.5°	35.3	35.3	36.9	36.9	39.2	40.5
79°	33.3	33.3	34.6	34.6	36.9	38.2
79.5°	31.0	31.2	32.2	32.2	34.6	36.1
80°	28.9	29.1	30.2	30.2	32.2	33.8
80.5°	26.6	27.1	27.9	27.9	29.9	31.7
81°	24.5	25.0	25.8	25.5	27.6	29.7
81.5°	22.4	23.0	23.7	23.5	25.3	27.3
82°	20.4	20.9	21.4	21.4	23.0	25.3
82.5°	18.3	18.6	19.3	19.3	20.9	23.0
83°	16.0	16.5	17.3	17.3	18.6	20.9
83.5°	13.9	14.4	15.0	15.2	16.0	18.6
84°	11.9	12.4	12.9	13.4	13.9	16.5
84.5°	10.1	10.6	10.8	11.3	11.6	14.4
85°	8.0	8.5	8.8	9.5	9.8	12.1
85.5°	5.9	6.4	7.0	7.7	8.3	10.1
86°	3.9	4.6	4.9	5.9	6.7	8.5
86.5°	2.1	2.6	2.8	4.1	4.9	6.7
87°	0.5	0.8	1.0	2.1	3.4	5.2
87.5°	0.0	0.0	0.3	0.8	2.1	3.6
88°	0.0	0.0	0.0	0.0	0.8	2.1
88.5°	0.0	0.0	0.0	0.0	0.0	0.8



TEST NUMBER: P776224

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-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°	1356.0	1377.2	1404.3	1419.8	1426.7	1430.8	1427.5	1415.1	1398.1	1380.3	1352.7
22°	1348.6	1370.5	1398.6	1414.1	1421.3	1425.7	1422.3	1409.4	1391.9	1373.6	1345.5



44°	532.4	676.9	966.8	913.1	741.3	865.9	1006.8	793.5	590.4	679.2	875.0
44.5°	497.8	641.0	954.2	876.5	703.2	828.0	994.7	756.8	555.1	641.8	862.3



66.5°	92.9	97.5	102.7	102.1	97.5	99.3	98.8	96.0	90.3	91.3	88.2
67°	90.8	95.2	100.3	100.1	95.4	97.2	96.7	93.9	88.2	89.3	86.2



89°	0.0	1.5	5.4	7.7	7.2	6.7	4.9	2.3	0.8	0.0	0.0
89.5°	0.0	0.3	3.9	5.7	5.4	4.9	3.1	1.0	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°	1331.5	1321.5	1320.7	1329.5	1341.3	1356.0
22°	1323.8	1313.2	1312.2	1322.0	1333.9	1348.6



44°	547.4	403.4	507.4	838.6	662.7	532.4
44.5°	513.6	372.5	473.9	815.6	628.4	497.8

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

Scaled Data Report



66.5°	87.7	86.2	89.0	91.8	93.9	92.9
67°	85.6	84.1	86.9	89.5	91.6	90.8

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	0.0	0.0
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)