

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: P776223

Luminaire Tested: HCDJBL51525CSD-HCD8TSQMW-2500lm-4000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776223  
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-4000K  
Description: 8 INCH SQUARE MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

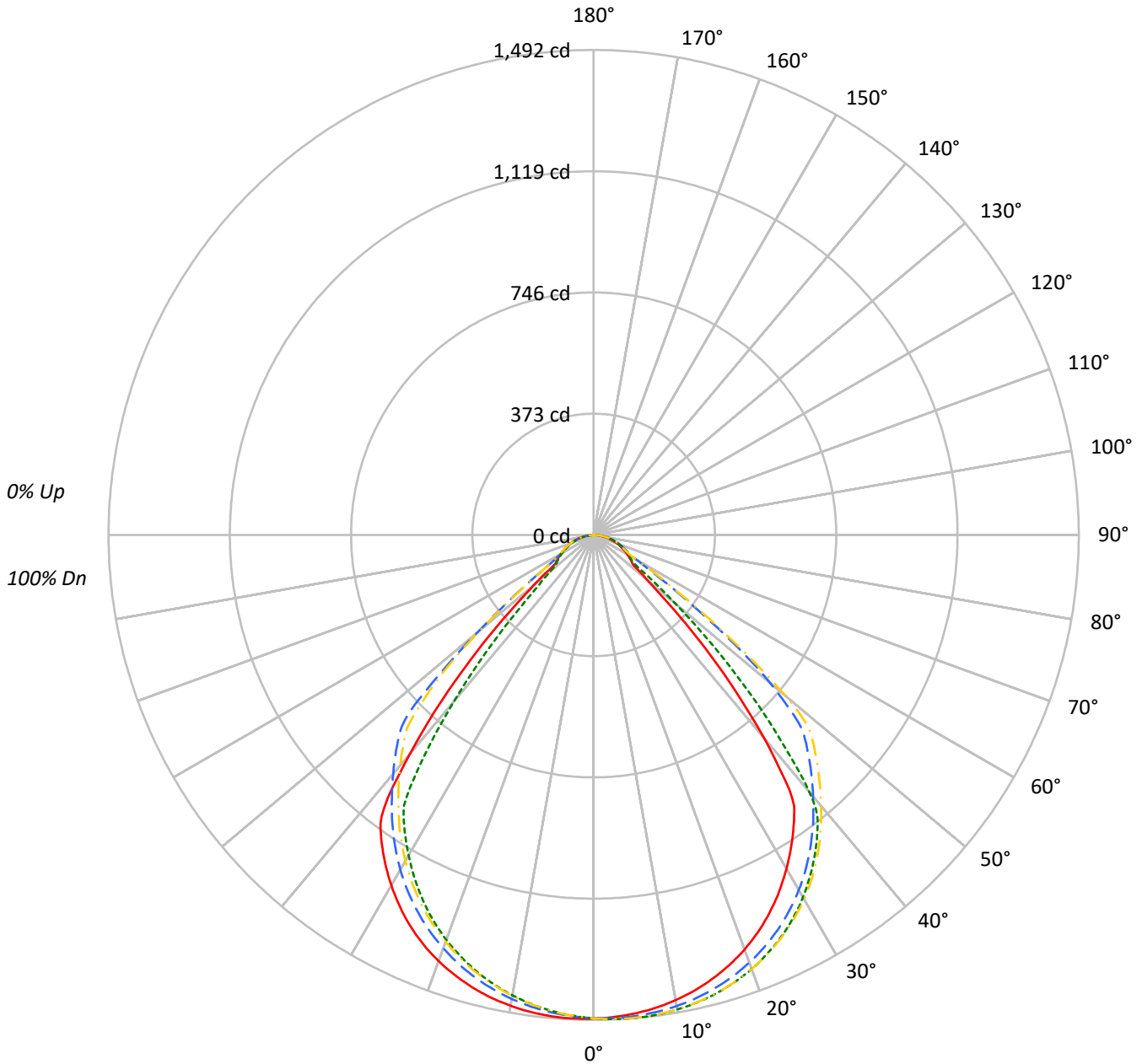
Lumens per Lamp: N/A  
Luminaire Lumens: 2693.6 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (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: P776223  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P776223

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-4000K

**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								
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°	35661	35661	35661	35661
5°	35566	35903	35780	35388
10°	35383	36094	35821	35023
15°	35084	36231	35772	34516
20°	34630	36258	35589	33826
25°	33894	36093	35199	32839
30°	32832	35654	34449	31523
35°	31444	34808	33341	29814
40°	25476	32288	27464	20919
45°	15514	22211	17430	11499
50°	7957	12116	8893	6495
55°	5941	6204	5790	5556
60°	5740	5913	5582	5352
65°	5555	5810	5407	5163
70°	5384	5735	5223	4936
75°	5114	5744	4994	4595
80°	4598	5827	4598	3963
85°	3274	6218	3632	2311

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 32822 cd/sqm



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.7	5.2
10°-20°	402.2	14.9
20°-30°	601.3	22.3
30°-40°	690.0	25.6
40°-50°	501.0	18.6
50°-60°	183.6	6.8
60°-70°	98.5	3.7
70°-80°	59.5	2.2
80°-90°	16.7	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°	1144.3	42.5
0°-40°	1834.3	68.1
0°-60°	2518.9	93.5
0°-90°	2693.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1487	1487	1487	1487	1487	
5°	1478	1492	1486	1470	1478	140
15°	1413	1460	1441	1390	1413	398
25°	1281	1364	1330	1241	1281	589
35°	1074	1189	1139	1018	1074	656
45°	458	655	514	339	458	361
55°	142	148	138	133	142	133
65°	98	102	95	91	98	97
75°	55	62	54	50	55	58
85°	12	23	13	8	12	15
90°	0	4	0	0	0	



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2
0.5°	1487.7	1488.0	1487.2	1487.0	1488.3	1488.3	1488.3	1488.8	1488.8	1488.0	1486.0
1°	1487.2	1487.7	1487.5	1487.7	1489.3	1489.0	1489.0	1489.3	1489.0	1487.7	1485.2
1.5°	1486.5	1487.5	1487.7	1488.3	1490.0	1489.8	1489.8	1489.8	1489.0	1487.5	1484.4
2°	1485.7	1487.0	1487.7	1488.5	1490.5	1490.5	1490.3	1490.0	1489.0	1487.2	1483.7
2.5°	1484.4	1486.5	1487.7	1489.0	1491.1	1491.1	1490.8	1490.0	1489.0	1486.7	1482.4
3°	1483.4	1485.7	1487.5	1489.3	1491.6	1491.6	1491.1	1490.0	1488.8	1486.2	1481.4
3.5°	1482.4	1485.0	1487.2	1489.3	1491.6	1491.8	1491.3	1490.3	1488.5	1485.5	1479.9
4°	1480.9	1483.9	1487.0	1489.3	1491.6	1491.8	1491.6	1490.0	1488.0	1484.4	1478.3
4.5°	1479.4	1482.9	1486.2	1488.8	1491.6	1491.8	1491.3	1489.8	1487.2	1483.4	1476.8
5°	1477.6	1481.6	1485.7	1488.5	1491.6	1491.8	1491.3	1489.3	1486.5	1482.2	1475.0
5.5°	1475.8	1480.4	1484.7	1488.0	1491.3	1491.3	1490.8	1488.8	1485.5	1480.6	1473.3
6°	1473.8	1478.9	1483.9	1487.5	1490.8	1491.1	1490.3	1488.0	1484.4	1479.4	1471.2
6.5°	1472.0	1477.1	1482.7	1486.7	1490.3	1490.5	1489.8	1487.2	1483.2	1477.8	1469.2
7°	1469.7	1475.3	1481.6	1486.0	1489.5	1490.0	1489.0	1486.2	1481.9	1476.1	1466.7
7.5°	1467.2	1473.5	1480.1	1485.0	1488.8	1489.5	1488.3	1485.2	1480.4	1474.3	1464.4
8°	1464.6	1471.5	1478.9	1483.9	1487.7	1488.5	1487.2	1483.9	1478.9	1472.2	1461.6
8.5°	1462.1	1469.2	1477.1	1482.4	1486.7	1487.5	1486.2	1482.7	1477.1	1470.0	1458.8
9°	1459.3	1466.9	1475.3	1481.1	1485.5	1486.5	1485.0	1481.1	1475.3	1467.7	1456.0
9.5°	1456.2	1464.4	1473.5	1479.6	1484.2	1485.0	1483.7	1479.6	1473.3	1465.1	1452.9
10°	1453.2	1461.6	1471.7	1478.1	1482.4	1483.7	1481.9	1477.6	1471.2	1462.6	1449.9
10.5°	1449.9	1458.8	1469.4	1476.3	1480.9	1482.2	1480.4	1475.5	1468.7	1460.0	1446.3
11°	1446.6	1456.0	1467.2	1474.3	1479.1	1480.6	1478.6	1473.5	1466.1	1457.0	1442.8
11.5°	1443.0	1452.9	1464.4	1472.2	1477.3	1478.6	1476.6	1471.2	1463.6	1454.2	1439.2
12°	1439.2	1449.6	1462.1	1470.0	1475.3	1476.6	1474.5	1468.9	1461.1	1450.9	1435.6
12.5°	1435.1	1446.3	1459.3	1467.7	1473.0	1474.5	1472.5	1466.7	1458.0	1447.3	1431.6
13°	1431.3	1442.5	1456.5	1465.1	1470.7	1472.2	1470.0	1463.9	1455.0	1443.8	1427.5
13.5°	1427.0	1438.9	1453.4	1462.6	1468.2	1470.0	1467.4	1461.1	1451.7	1440.2	1423.2
14°	1422.7	1434.9	1450.4	1459.8	1465.4	1467.2	1464.9	1458.0	1448.3	1436.4	1418.6
14.5°	1418.1	1431.1	1447.1	1457.0	1462.6	1464.6	1462.1	1455.0	1444.8	1432.6	1414.0
15°	1413.3	1426.7	1443.5	1453.7	1459.5	1461.8	1459.0	1451.7	1441.0	1428.3	1409.5
15.5°	1408.4	1422.4	1440.0	1450.4	1456.5	1458.5	1456.2	1448.3	1437.2	1424.2	1404.6
16°	1403.4	1417.6	1436.1	1447.1	1453.2	1455.5	1452.9	1444.8	1433.1	1419.6	1399.5
16.5°	1398.3	1413.3	1432.1	1443.5	1449.9	1452.2	1449.4	1441.0	1429.0	1415.1	1394.2
17°	1392.9	1408.4	1428.0	1439.7	1446.1	1448.6	1445.8	1437.2	1424.7	1410.5	1388.9
17.5°	1387.3	1403.4	1423.9	1435.9	1442.2	1445.0	1442.0	1433.1	1420.1	1405.6	1383.3
18°	1381.8	1398.3	1419.4	1431.8	1438.4	1441.2	1438.4	1428.5	1415.3	1400.6	1377.7
18.5°	1375.7	1392.9	1414.8	1427.8	1434.4	1437.2	1434.4	1424.5	1410.5	1395.2	1371.6
19°	1369.6	1387.3	1410.2	1423.2	1430.0	1433.1	1430.0	1419.6	1405.4	1389.9	1365.5
19.5°	1363.5	1381.5	1405.1	1418.6	1425.5	1428.8	1425.7	1415.3	1400.3	1384.3	1359.4
20°	1357.1	1375.7	1400.1	1414.0	1420.9	1424.5	1421.2	1410.0	1394.7	1378.7	1353.0
20.5°	1350.2	1369.6	1395.0	1409.2	1416.1	1419.6	1416.6	1405.1	1389.1	1372.9	1346.4
21°	1343.4	1363.5	1389.6	1404.1	1411.2	1415.1	1411.5	1399.8	1383.5	1366.5	1339.6



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1321.5	1343.6	1372.1	1387.9	1395.0	1399.3	1396.0	1383.0	1365.2	1347.2	1318.7
23°	1313.9	1336.5	1366.0	1382.3	1389.4	1393.7	1390.6	1377.2	1358.6	1340.3	1311.3
23.5°	1306.0	1329.4	1359.9	1376.2	1383.3	1388.1	1384.8	1371.1	1351.8	1333.2	1303.7
24°	1297.9	1321.8	1353.3	1370.1	1377.4	1382.3	1378.7	1364.5	1345.2	1326.1	1296.1
24.5°	1289.7	1314.1	1346.7	1364.0	1371.1	1376.2	1372.9	1358.1	1337.8	1318.7	1288.0
25°	1281.1	1306.3	1339.8	1357.1	1364.2	1369.8	1366.5	1351.5	1330.4	1311.1	1280.1
25.5°	1272.5	1298.1	1332.9	1350.5	1357.9	1363.2	1360.1	1344.6	1323.0	1303.2	1271.7
26°	1263.8	1290.0	1325.6	1343.6	1350.7	1356.8	1353.5	1337.5	1315.2	1295.3	1263.3
26.5°	1254.7	1281.6	1318.5	1336.5	1343.6	1350.0	1346.7	1329.9	1307.0	1286.9	1254.7
27°	1245.5	1273.0	1311.1	1329.4	1336.3	1342.4	1339.8	1322.3	1298.6	1278.6	1245.8
27.5°	1235.6	1264.1	1303.2	1322.0	1328.6	1335.2	1332.7	1314.6	1290.2	1269.9	1236.9
28°	1226.2	1255.2	1295.1	1314.1	1320.7	1327.9	1325.3	1306.8	1281.6	1261.0	1228.0
28.5°	1215.8	1246.0	1287.2	1306.5	1312.6	1320.0	1317.7	1298.4	1272.7	1251.9	1218.3
29°	1206.4	1236.6	1278.8	1298.1	1305.0	1311.9	1310.1	1290.2	1263.3	1242.7	1208.9
29.5°	1195.7	1227.0	1270.4	1290.0	1295.8	1303.7	1302.2	1281.3	1254.2	1232.8	1199.0
30°	1185.8	1217.0	1261.8	1281.6	1287.7	1295.3	1293.8	1272.7	1244.2	1223.4	1189.3
30.5°	1174.8	1207.1	1253.1	1273.0	1278.0	1286.7	1285.7	1263.6	1234.8	1213.5	1178.9
31°	1164.7	1197.2	1244.0	1263.8	1269.7	1278.0	1277.0	1254.4	1224.9	1203.3	1168.7
31.5°	1153.7	1186.5	1234.6	1254.9	1259.5	1268.6	1268.4	1245.0	1215.0	1193.1	1158.3
32°	1143.1	1176.1	1225.2	1245.5	1249.8	1259.7	1259.2	1235.3	1204.8	1183.0	1147.6
32.5°	1131.6	1165.7	1215.5	1235.9	1240.2	1250.1	1250.1	1225.7	1194.4	1172.6	1136.5
33°	1121.0	1155.3	1205.3	1226.2	1230.5	1240.7	1240.7	1215.8	1183.7	1162.1	1125.5
33.5°	1109.5	1144.3	1195.7	1216.5	1220.1	1230.8	1231.0	1205.9	1173.1	1151.7	1114.3
34°	1098.1	1133.7	1185.3	1206.4	1209.7	1220.6	1221.1	1195.4	1162.1	1141.0	1102.9
34.5°	1085.6	1122.5	1174.8	1196.2	1199.2	1210.4	1211.2	1185.3	1150.4	1130.1	1091.5
35°	1074.2	1111.3	1164.2	1185.8	1189.1	1200.5	1201.0	1174.8	1139.0	1118.9	1079.8
35.5°	1062.2	1099.9	1153.5	1175.4	1177.6	1190.1	1190.4	1164.4	1127.3	1107.5	1068.1
36°	1049.8	1088.4	1142.3	1164.7	1166.7	1179.4	1179.7	1153.5	1115.4	1096.0	1056.1
36.5°	1036.8	1076.5	1131.4	1154.3	1155.0	1169.0	1168.7	1142.3	1102.1	1084.4	1043.9
37°	1015.0	1064.5	1120.2	1143.3	1143.3	1157.8	1157.8	1130.9	1082.8	1072.2	1032.0
37.5°	988.8	1052.6	1108.8	1132.1	1131.4	1146.6	1146.4	1119.4	1058.7	1060.2	1019.5
38°	953.7	1040.1	1097.3	1121.0	1119.2	1134.9	1135.2	1107.5	1028.7	1047.2	1007.3
38.5°	918.6	1027.4	1085.4	1109.5	1105.5	1123.5	1123.5	1095.8	993.4	1032.8	995.4
39°	884.6	1008.4	1073.7	1098.1	1085.9	1111.6	1112.1	1083.6	956.0	1009.1	983.2
39.5°	850.0	982.9	1062.0	1086.1	1061.7	1099.4	1100.1	1069.9	916.8	982.9	971.0
40°	813.9	949.6	1050.0	1073.9	1031.5	1086.9	1087.9	1047.5	877.4	951.7	959.0
40.5°	776.3	914.8	1038.1	1061.5	997.2	1073.4	1075.7	1024.9	840.1	916.8	947.3
41°	737.9	881.5	1025.9	1049.0	958.3	1052.3	1064.0	995.1	804.2	882.3	935.4
41.5°	700.0	848.0	1013.9	1035.6	918.9	1028.9	1051.8	962.1	767.6	843.4	923.5
42°	663.9	812.9	1001.7	1017.5	879.2	1000.5	1039.9	926.3	730.8	807.8	911.3
42.5°	629.6	776.3	989.5	994.1	841.6	966.7	1027.9	888.6	692.7	773.2	899.3
43°	594.3	739.9	977.6	966.4	805.0	930.1	1015.7	852.0	655.0	740.4	887.1
43.5°	559.2	703.3	965.1	935.1	768.1	891.4	1004.0	816.4	617.7	704.3	874.7



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	457.5	597.3	928.5	827.6	655.0	780.6	967.9	710.4	514.0	599.9	835.5
45.5°	425.3	563.8	916.1	791.8	616.9	745.3	955.5	674.1	479.6	563.5	814.9
46°	395.0	530.0	903.4	758.0	581.6	709.2	943.0	638.0	447.1	531.2	790.5
46.5°	365.3	495.7	890.7	724.2	547.0	671.8	930.6	601.4	414.8	497.9	756.5
47°	336.3	462.4	877.4	689.4	512.4	634.4	917.9	566.8	384.1	468.0	714.5
47.5°	310.1	430.6	854.1	654.3	478.4	597.8	904.6	533.3	354.3	435.2	672.6
48°	284.9	399.8	829.7	619.2	444.6	563.5	890.9	500.7	327.9	405.7	629.6
48.5°	262.6	370.3	799.2	583.9	412.5	529.7	869.8	467.4	301.7	375.7	588.2
49°	243.5	341.4	769.2	551.3	381.5	495.7	840.6	435.2	277.8	346.7	548.3
49.5°	227.2	314.4	738.7	517.5	352.3	462.6	808.3	403.9	255.2	320.5	508.9
50°	213.3	288.5	709.2	487.0	324.8	429.6	768.9	373.7	238.4	296.1	470.0
50.5°	201.6	264.9	677.2	455.5	299.4	397.8	727.0	345.2	221.9	272.0	433.1
51°	190.6	244.0	640.0	424.2	275.0	367.6	682.7	317.2	205.4	249.9	398.8
51.5°	179.7	227.2	602.4	392.7	252.9	338.6	638.3	292.1	188.9	232.3	366.8
52°	169.0	212.5	563.0	364.2	235.4	311.4	595.0	268.4	172.3	214.8	335.8
52.5°	159.6	200.0	522.6	336.0	217.6	286.0	552.6	250.1	159.4	197.5	307.6
53°	152.8	188.6	483.5	310.1	200.0	262.1	513.5	231.8	150.2	180.0	281.9
53.5°	149.5	178.2	445.6	284.7	182.5	244.0	476.1	213.5	146.2	166.0	258.3
54°	146.7	167.5	409.7	262.3	169.3	226.0	439.5	195.2	143.4	153.5	240.5
54.5°	144.4	157.3	375.2	240.0	156.8	207.9	403.6	176.9	140.8	144.4	222.9
55°	142.1	149.2	344.7	220.6	148.4	189.9	369.3	163.9	138.5	140.3	205.6
55.5°	139.5	144.4	315.7	202.8	144.6	171.8	337.1	151.5	136.0	137.5	188.1
56°	137.3	141.6	287.5	186.8	142.1	158.4	307.1	141.8	133.7	135.2	170.8
56.5°	135.0	139.3	262.1	172.1	139.5	146.7	281.1	137.8	131.4	132.7	159.4
57°	132.7	136.8	239.4	158.6	137.0	139.5	259.8	135.0	129.1	130.4	149.7
57.5°	130.4	134.5	218.9	146.7	134.7	136.5	238.4	132.7	127.1	128.1	141.6
58°	128.4	132.2	200.6	139.0	132.4	134.2	216.8	130.1	124.8	125.8	135.0
58.5°	126.1	129.9	184.8	136.0	130.1	131.7	195.5	128.1	122.8	123.8	129.4
59°	124.0	127.6	170.8	133.4	127.9	129.4	174.4	125.8	120.5	121.5	124.6
59.5°	121.8	125.6	159.6	130.9	125.6	127.1	160.1	123.5	118.5	119.5	120.5
60°	119.7	123.3	150.2	128.6	123.3	124.8	149.0	121.5	116.4	117.4	116.9
60.5°	117.4	121.2	142.6	126.3	121.0	122.5	140.3	119.2	114.4	115.4	114.1
61°	115.4	119.2	136.2	124.0	119.0	120.2	132.7	117.2	112.4	113.4	111.8
61.5°	113.1	117.2	130.4	122.0	116.9	118.2	127.1	115.1	110.1	111.3	109.6
62°	111.1	114.9	125.6	119.7	114.9	116.2	122.0	113.1	108.0	109.3	107.0
62.5°	108.8	112.9	121.2	117.7	112.9	114.1	117.9	111.1	105.7	107.3	104.7
63°	106.5	110.8	117.9	115.4	110.6	112.1	114.1	109.0	103.7	105.0	102.4
63.5°	104.5	108.8	115.4	113.4	108.5	110.1	111.3	107.0	101.7	102.9	100.4
64°	102.2	106.8	112.9	111.3	106.5	108.0	108.8	105.0	99.4	100.7	98.1
64.5°	100.1	104.5	110.6	109.0	104.5	106.0	106.5	102.9	97.4	98.6	95.8
65°	97.9	102.4	108.3	107.0	102.4	104.0	104.2	100.9	95.3	96.6	93.5
65.5°	95.6	100.4	105.7	105.0	100.1	101.9	101.9	98.9	93.0	94.3	91.5
66°	93.5	98.1	103.5	102.9	98.1	99.9	99.6	96.6	91.0	92.3	89.2





TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	87.2	92.8	96.8	96.6	92.0	93.8	93.0	90.2	84.9	85.9	82.6
68°	85.2	90.5	94.6	94.3	90.0	91.8	90.7	88.2	82.9	83.6	80.3
68.5°	83.1	88.2	91.8	92.0	87.9	89.5	88.7	86.2	80.8	81.6	78.0
69°	81.1	85.7	89.7	90.0	85.9	87.4	86.4	83.9	78.8	79.3	76.0
69.5°	78.8	83.4	87.7	87.9	83.9	85.4	84.4	81.8	76.8	77.3	73.7
70°	76.8	81.3	85.4	86.2	81.8	83.4	82.1	79.8	74.5	75.2	71.4
70.5°	74.5	79.1	83.4	84.1	80.1	81.3	80.1	77.8	72.4	73.0	69.4
71°	72.4	77.0	81.1	81.8	78.0	79.3	77.8	75.5	70.4	70.9	67.1
71.5°	70.2	75.0	79.1	79.8	76.0	77.3	75.7	73.5	68.4	68.9	64.8
72°	68.1	72.7	76.8	77.8	74.0	75.2	73.5	71.4	66.3	66.6	62.8
72.5°	65.8	70.4	74.5	75.7	72.2	73.2	71.4	69.4	64.3	64.6	60.5
73°	63.8	68.4	72.2	73.5	70.2	71.2	69.1	67.1	62.3	62.5	58.5
73.5°	61.5	66.1	70.2	71.4	68.1	69.1	67.1	65.1	60.2	60.2	56.2
74°	59.5	64.1	67.9	69.4	66.1	67.1	65.1	63.0	58.2	58.2	53.9
74.5°	57.2	61.8	65.6	67.4	64.1	65.1	62.8	61.0	55.9	55.9	51.9
75°	55.2	59.7	63.5	65.3	62.0	63.0	60.8	58.7	53.9	53.9	49.6
75.5°	52.9	57.4	61.3	63.3	60.2	61.0	58.7	56.7	51.9	51.6	47.3
76°	50.6	55.2	59.0	61.0	58.2	59.0	56.4	54.4	49.8	49.3	45.2
76.5°	48.5	52.9	56.9	59.0	56.2	56.9	54.4	52.4	47.8	47.3	43.0
77°	46.3	50.8	54.6	56.9	54.1	54.9	52.4	50.3	45.5	45.2	40.9
77.5°	44.2	48.5	52.4	54.6	52.1	52.9	50.1	48.0	43.5	43.0	38.6
78°	41.9	46.3	50.3	52.6	50.1	50.8	48.0	46.0	41.4	40.9	36.6
78.5°	39.9	44.2	48.0	50.6	48.0	48.8	46.0	43.7	39.4	38.6	34.3
79°	37.6	41.9	46.0	48.3	46.3	46.8	43.7	41.7	37.4	36.6	32.3
79.5°	35.6	39.7	43.7	46.3	44.2	44.7	41.7	39.7	35.3	34.3	30.0
80°	33.3	37.6	41.4	44.2	42.2	42.4	39.7	37.4	33.3	32.3	28.0
80.5°	31.3	35.3	39.4	41.9	40.2	40.7	37.6	35.3	31.3	30.0	25.9
81°	29.2	33.0	37.4	39.9	38.4	38.6	35.6	33.3	29.2	28.0	23.6
81.5°	26.9	30.8	35.1	37.9	36.3	36.3	33.3	31.3	27.2	25.7	21.6
82°	24.9	28.7	32.8	35.6	34.3	34.6	31.3	29.0	25.2	23.6	19.6
82.5°	22.6	26.4	30.8	33.6	32.3	32.3	29.2	26.9	23.1	21.4	17.3
83°	20.6	24.4	28.7	31.5	30.5	30.2	27.2	24.9	21.1	19.3	15.3
83.5°	18.3	22.1	26.4	29.5	28.5	28.2	25.2	22.6	19.1	17.0	13.5
84°	16.3	19.8	24.4	27.5	26.4	26.2	23.1	20.6	17.0	15.0	11.7
84.5°	14.2	17.8	22.1	25.2	24.7	24.1	21.1	18.6	15.0	13.0	9.9
85°	11.9	15.5	20.1	23.1	22.6	22.4	19.1	16.3	13.2	10.7	8.1
85.5°	9.9	13.5	18.0	21.1	20.6	20.3	17.0	14.2	11.2	8.6	6.4
86°	8.4	11.2	15.8	19.1	18.8	18.3	15.0	12.2	9.4	6.9	4.8
86.5°	6.6	8.9	14.0	17.3	16.8	16.3	13.2	9.9	7.4	5.3	3.1
87°	5.1	7.4	12.2	15.3	14.7	14.2	11.4	8.1	5.6	4.1	1.5
87.5°	3.6	5.8	10.4	13.2	13.0	12.5	9.7	6.6	4.3	2.8	0.3
88°	2.0	4.3	8.9	11.4	10.9	10.4	8.1	5.1	3.1	1.5	0.0
88.5°	0.8	2.8	7.1	9.4	9.2	8.6	6.4	3.8	1.8	0.3	0.0



TEST NUMBER: P776223  
CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	2.0	3.8	3.6	3.1	1.5	0.3	0.0	0.0	0.0



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1487.2	1487.2	1487.2	1487.2	1487.2	1487.2
0.5°	1485.2	1486.2	1486.0	1486.2	1487.0	1487.7
1°	1484.2	1485.0	1484.4	1485.0	1486.0	1487.2
1.5°	1482.9	1483.7	1482.9	1483.4	1485.0	1486.5
2°	1481.6	1482.2	1481.4	1482.2	1483.7	1485.7
2.5°	1480.1	1480.4	1479.9	1480.4	1482.2	1484.4
3°	1478.6	1478.9	1477.8	1478.9	1480.6	1483.4
3.5°	1476.8	1476.8	1476.1	1476.8	1479.1	1482.4
4°	1475.0	1474.8	1473.8	1474.8	1477.3	1480.9
4.5°	1473.0	1472.5	1471.7	1472.8	1475.5	1479.4
5°	1471.0	1470.2	1469.2	1470.2	1473.3	1477.6
5.5°	1468.7	1467.7	1466.7	1467.9	1471.2	1475.8
6°	1466.1	1465.1	1463.9	1465.4	1468.9	1473.8
6.5°	1463.6	1462.3	1461.1	1462.6	1466.7	1472.0
7°	1460.8	1459.3	1458.0	1459.8	1463.9	1469.7
7.5°	1458.0	1456.2	1454.7	1456.7	1461.3	1467.2
8°	1455.0	1452.9	1451.4	1453.7	1458.3	1464.6
8.5°	1451.7	1449.6	1448.1	1450.4	1455.2	1462.1
9°	1448.3	1445.8	1444.5	1446.8	1452.2	1459.3
9.5°	1444.8	1442.2	1440.7	1443.3	1448.9	1456.2
10°	1441.2	1438.4	1436.7	1439.5	1445.3	1453.2
10.5°	1437.2	1434.4	1432.6	1435.6	1441.7	1449.9
11°	1433.4	1430.0	1428.5	1431.6	1437.9	1446.6
11.5°	1429.0	1425.7	1424.2	1427.5	1434.1	1443.0
12°	1425.0	1421.2	1419.4	1422.9	1429.8	1439.2
12.5°	1420.4	1416.3	1414.8	1418.6	1425.5	1435.1
13°	1415.8	1411.5	1409.7	1413.8	1421.4	1431.3
13.5°	1411.0	1406.4	1404.9	1409.2	1416.8	1427.0
14°	1406.2	1401.3	1399.5	1404.1	1412.0	1422.7
14.5°	1401.1	1396.0	1394.2	1399.0	1407.2	1418.1
15°	1395.7	1390.4	1388.4	1393.7	1402.1	1413.3
15.5°	1390.4	1384.8	1383.0	1388.4	1396.7	1408.4
16°	1384.8	1378.7	1377.2	1382.5	1391.7	1403.4
16.5°	1379.2	1372.9	1371.1	1376.9	1386.1	1398.3
17°	1373.1	1366.8	1364.7	1370.8	1380.5	1392.9
17.5°	1367.0	1360.1	1358.4	1365.0	1374.6	1387.3
18°	1360.9	1353.5	1352.0	1358.6	1368.5	1381.8
18.5°	1354.3	1346.7	1345.4	1352.0	1362.4	1375.7
19°	1347.7	1339.8	1338.0	1345.7	1356.1	1369.6
19.5°	1341.1	1332.9	1331.2	1338.8	1349.7	1363.5
20°	1334.2	1325.6	1324.1	1331.9	1342.9	1357.1
20.5°	1326.8	1318.0	1316.7	1325.1	1336.0	1350.2
21°	1319.7	1310.3	1309.1	1317.4	1328.9	1343.4



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1296.6	1285.9	1285.2	1294.8	1306.5	1321.5
23°	1288.7	1277.3	1276.8	1286.9	1298.9	1313.9
23.5°	1280.3	1268.9	1268.4	1279.1	1291.0	1306.0
24°	1271.9	1259.7	1259.7	1270.7	1282.9	1297.9
24.5°	1263.3	1250.6	1250.6	1262.3	1274.5	1289.7
25°	1254.4	1241.2	1241.4	1253.6	1266.1	1281.1
25.5°	1245.5	1231.8	1232.3	1245.0	1257.2	1272.5
26°	1236.1	1222.1	1222.9	1235.9	1248.6	1263.8
26.5°	1226.7	1212.5	1213.2	1226.7	1239.4	1254.7
27°	1217.3	1202.3	1203.3	1217.5	1230.3	1245.5
27.5°	1207.4	1191.9	1193.4	1208.1	1220.6	1235.6
28°	1197.5	1181.5	1183.0	1198.2	1210.9	1226.2
28.5°	1187.3	1170.8	1172.8	1188.6	1201.3	1215.8
29°	1177.1	1160.1	1162.4	1178.4	1191.6	1206.4
29.5°	1166.7	1149.4	1151.7	1168.2	1181.2	1195.7
30°	1156.0	1138.5	1140.8	1158.1	1171.0	1185.8
30.5°	1145.4	1127.3	1130.1	1147.4	1160.6	1174.8
31°	1134.7	1116.1	1119.2	1137.0	1149.9	1164.7
31.5°	1123.8	1104.7	1107.7	1126.0	1139.3	1153.7
32°	1112.8	1093.0	1096.6	1115.1	1128.3	1143.1
32.5°	1101.9	1081.3	1085.6	1103.7	1117.4	1131.6
33°	1090.5	1069.4	1074.2	1092.7	1106.5	1121.0
33.5°	1079.0	1057.2	1062.2	1081.3	1095.0	1109.5
34°	1067.3	1045.0	1050.8	1069.9	1084.4	1098.1
34.5°	1055.9	1032.0	1038.6	1057.7	1072.9	1085.6
35°	1043.9	1018.5	1026.7	1046.2	1061.5	1074.2
35.5°	1032.0	991.6	1014.2	1034.5	1050.0	1062.2
36°	1019.8	960.8	1002.0	1022.3	1038.3	1049.8
36.5°	1007.3	926.3	988.5	1010.4	1026.1	1036.8
37°	994.1	891.7	969.7	998.4	1014.2	1015.0
37.5°	978.6	856.1	943.0	986.2	1002.0	988.8
38°	952.4	819.5	910.2	974.0	989.5	953.7
38.5°	920.9	781.9	876.4	961.8	977.3	918.6
39°	887.6	743.2	844.7	949.9	964.1	884.6
39.5°	854.1	704.3	810.3	937.7	943.3	850.0
40°	820.5	668.3	775.3	925.7	918.1	813.9
40.5°	785.2	632.4	738.4	913.3	885.6	776.3
41°	748.8	597.8	702.6	901.1	853.0	737.9
41.5°	711.7	562.3	666.7	888.9	821.5	700.0
42°	675.6	528.2	631.9	876.9	789.0	663.9
42.5°	640.0	493.1	598.6	864.7	756.5	629.6
43°	605.5	459.8	566.6	852.5	722.1	594.3
43.5°	572.2	427.8	533.3	839.8	687.3	559.2



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	472.5	339.1	435.7	779.6	586.4	457.5
45.5°	440.5	311.4	405.4	751.1	554.9	425.3
46°	409.5	286.2	376.7	721.9	522.9	395.0
46.5°	379.8	263.8	348.2	694.2	490.8	365.3
47°	351.0	245.3	320.5	665.5	458.8	336.3
47.5°	323.6	229.5	295.1	636.0	428.3	310.1
48°	296.6	216.6	271.5	600.4	398.8	284.9
48.5°	273.0	205.1	251.1	563.5	370.3	262.6
49°	251.1	194.7	233.9	524.6	342.4	243.5
49.5°	237.2	184.3	218.9	488.0	316.5	227.2
50°	223.7	174.1	206.4	453.2	290.5	213.3
50.5°	210.2	163.7	195.5	420.4	267.1	201.6
51°	196.5	155.6	185.3	388.1	245.8	190.6
51.5°	183.0	150.2	175.1	359.2	227.8	179.7
52°	172.6	147.2	165.0	331.2	212.0	169.0
52.5°	162.7	144.6	155.3	303.8	198.5	159.6
53°	152.8	142.3	147.9	279.1	186.8	152.8
53.5°	144.9	140.1	144.4	256.7	176.2	149.5
54°	140.6	137.5	141.6	235.4	165.5	146.7
54.5°	138.0	135.2	139.3	217.8	155.6	144.4
55°	135.5	132.9	136.8	200.8	147.2	142.1
55.5°	133.2	130.7	134.5	186.1	142.1	139.5
56°	130.9	128.6	132.2	172.6	139.5	137.3
56.5°	128.6	126.3	129.9	162.2	137.0	135.0
57°	126.6	124.3	127.6	152.8	134.7	132.7
57.5°	124.3	122.0	125.6	145.1	132.4	130.4
58°	122.3	120.0	123.5	138.5	130.1	128.4
58.5°	120.2	117.9	121.2	133.2	127.9	126.1
59°	117.9	115.9	119.2	128.1	125.8	124.0
59.5°	115.9	113.9	117.2	123.8	123.5	121.8
60°	113.9	111.6	114.9	120.5	121.2	119.7
60.5°	111.8	109.6	113.1	117.9	119.2	117.4
61°	109.8	107.5	111.1	115.7	116.9	115.4
61.5°	107.5	105.5	109.0	113.4	114.9	113.1
62°	105.5	103.2	106.8	110.8	112.6	111.1
62.5°	103.5	101.2	104.7	108.5	110.6	108.8
63°	101.2	99.1	102.7	106.2	108.3	106.5
63.5°	99.1	96.8	100.4	104.0	106.0	104.5
64°	97.1	94.8	98.4	101.7	103.7	102.2
64.5°	94.8	93.0	96.1	99.4	101.4	100.1
65°	92.8	91.0	94.0	97.1	99.4	97.9
65.5°	90.5	89.0	91.5	95.1	97.1	95.6
66°	88.5	86.9	89.7	92.8	94.8	93.5



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	82.1	80.6	83.9	85.9	88.2	87.2
68°	80.1	78.5	81.6	83.9	85.9	85.2
68.5°	77.8	76.5	79.6	81.6	83.6	83.1
69°	75.7	74.5	77.5	79.3	81.6	81.1
69.5°	73.5	72.4	75.2	77.0	79.3	78.8
70°	71.4	70.4	73.2	74.7	77.0	76.8
70.5°	69.4	68.4	70.9	72.4	74.7	74.5
71°	67.4	66.3	68.9	70.2	72.7	72.4
71.5°	65.1	64.3	66.9	67.9	70.4	70.2
72°	63.0	62.0	64.6	65.6	68.1	68.1
72.5°	60.8	60.0	62.3	63.3	65.8	65.8
73°	58.7	58.0	60.2	61.3	63.5	63.8
73.5°	56.4	55.7	58.0	59.0	61.3	61.5
74°	54.4	53.6	55.9	56.7	59.2	59.5
74.5°	52.1	51.6	53.6	54.4	56.9	57.2
75°	50.1	49.6	51.3	52.1	54.6	55.2
75.5°	47.8	47.3	49.3	49.8	52.1	52.9
76°	45.8	45.2	47.0	47.5	50.1	50.6
76.5°	43.5	43.2	45.0	45.2	47.8	48.5
77°	41.4	41.2	42.7	43.2	45.5	46.3
77.5°	39.1	39.1	40.7	40.9	43.2	44.2
78°	37.1	37.1	38.4	38.6	40.9	41.9
78.5°	34.8	34.8	36.3	36.3	38.6	39.9
79°	32.8	32.8	34.1	34.1	36.3	37.6
79.5°	30.5	30.8	31.8	31.8	34.1	35.6
80°	28.5	28.7	29.7	29.7	31.8	33.3
80.5°	26.2	26.7	27.5	27.5	29.5	31.3
81°	24.1	24.7	25.4	25.2	27.2	29.2
81.5°	22.1	22.6	23.4	23.1	24.9	26.9
82°	20.1	20.6	21.1	21.1	22.6	24.9
82.5°	18.0	18.3	19.1	19.1	20.6	22.6
83°	15.8	16.3	17.0	17.0	18.3	20.6
83.5°	13.7	14.2	14.7	15.0	15.8	18.3
84°	11.7	12.2	12.7	13.2	13.7	16.3
84.5°	9.9	10.4	10.7	11.2	11.4	14.2
85°	7.9	8.4	8.6	9.4	9.7	11.9
85.5°	5.8	6.4	6.9	7.6	8.1	9.9
86°	3.8	4.6	4.8	5.8	6.6	8.4
86.5°	2.0	2.5	2.8	4.1	4.8	6.6
87°	0.5	0.8	1.0	2.0	3.3	5.1
87.5°	0.0	0.0	0.3	0.8	2.0	3.6
88°	0.0	0.0	0.0	0.0	0.8	2.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.8



TEST NUMBER: P776223

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-2500lm-4000K

**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°	1336.3	1357.1	1383.8	1399.0	1405.9	1410.0	1406.7	1394.5	1377.7	1360.1	1332.9
22°	1328.9	1350.5	1378.2	1393.4	1400.6	1404.9	1401.6	1388.9	1371.6	1353.5	1325.8



44°	524.6	667.0	952.7	899.8	730.5	853.3	992.1	781.9	581.8	669.3	862.2
44.5°	490.6	631.7	940.2	863.7	692.9	815.9	980.1	745.8	547.0	632.4	849.7



66.5°	91.5	96.1	101.2	100.7	96.1	97.9	97.4	94.6	89.0	90.0	86.9
67°	89.5	93.8	98.9	98.6	94.0	95.8	95.3	92.5	86.9	87.9	84.9



89°	0.0	1.5	5.3	7.6	7.1	6.6	4.8	2.3	0.8	0.0	0.0
89.5°	0.0	0.3	3.8	5.6	5.3	4.8	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°	1312.1	1302.2	1301.4	1310.1	1321.8	1336.3
22°	1304.5	1294.1	1293.0	1302.7	1314.4	1328.9



44°	539.4	397.5	500.0	826.4	653.0	524.6
44.5°	506.1	367.0	466.9	803.7	619.2	490.6



66.5°	86.4	84.9	87.7	90.5	92.5	91.5
67°	84.4	82.9	85.7	88.2	90.2	89.5

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	0.0	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)