

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: P776180

Luminaire Tested: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776180
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-HCD8TRH-2500lm-2700K
Description: 8 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

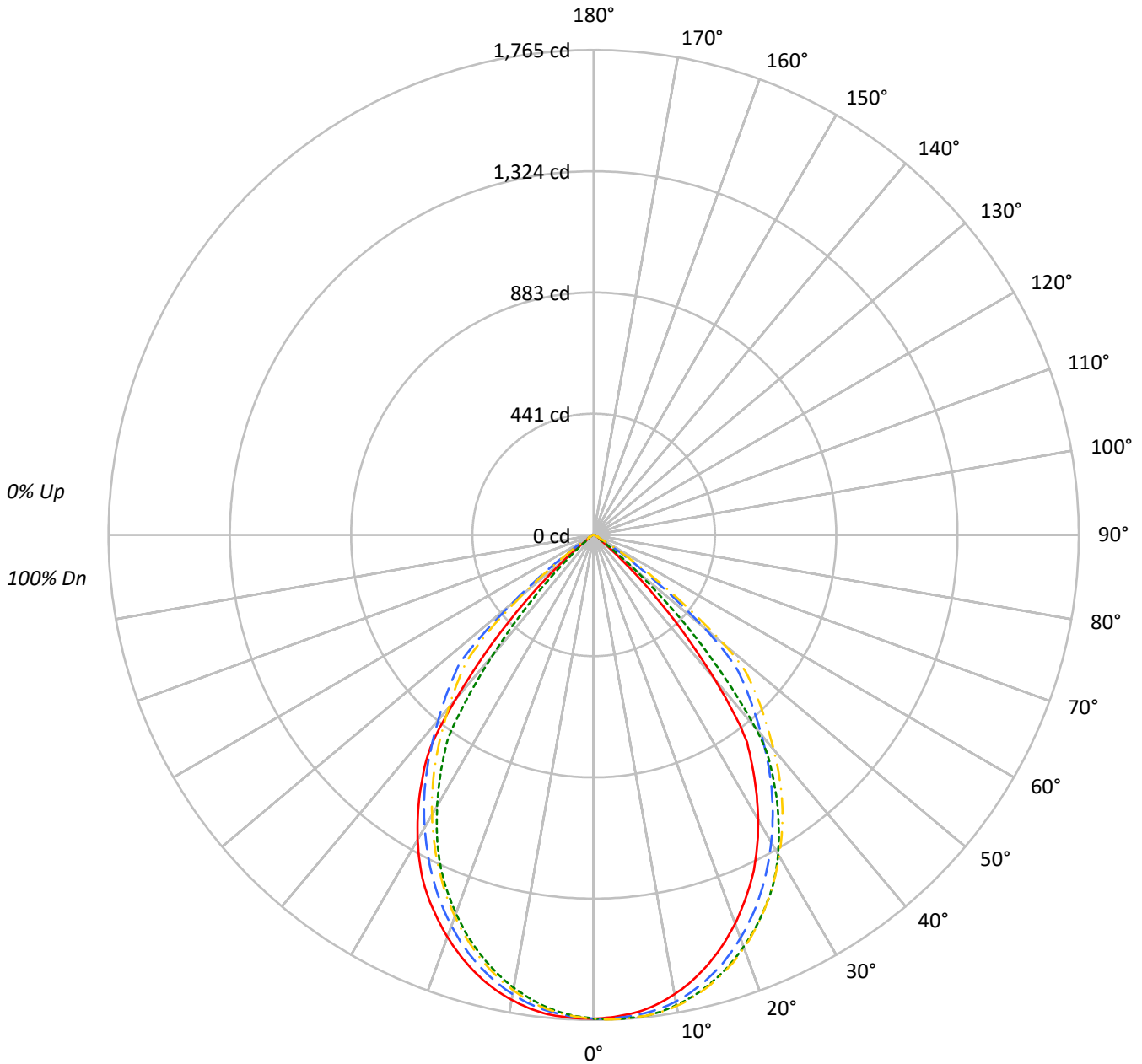
Lumens per Lamp: N/A
Luminaire Lumens: 2440.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P776180
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776180
 CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92			92	
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84	
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76	
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69			69	
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63	
6	83	72	66	61	81	72	65	60	70	64	60	68	63	60	67	63	59	57			57	
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53			53	
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48			48	
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45			45	
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	53749	53749	53749	53749
5°	53479	54012	53745	53129
10°	52612	53871	53263	51884
15°	51084	53135	52215	50050
20°	48897	51831	50567	47601
25°	46097	50021	48438	44523
30°	42174	47310	45135	40150
35°	37185	43167	40562	34930
40°	27237	36471	31078	22757
45°	13717	22206	17158	10038
50°	4184	9214	5638	2874
55°	1549	1741	1549	1341
60°	1185	1301	1185	1020
65°	925	997	910	787
70°	732	803	714	625
75°	602	661	566	484
80°	475	545	475	387
85°	350	525	350	245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 36501 cd/sqm



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	6.8
10°-20°	460.0	18.9
20°-30°	645.5	26.5
30°-40°	662.9	27.2
40°-50°	405.3	16.6
50°-60°	78.7	3.2
60°-70°	14.3	0.6
70°-80°	6.4	0.3
80°-90°	1.4	0.1
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°	1271.2	52.1
0°-40°	1934.0	79.3
0°-60°	2418.0	99.1
0°-90°	2440.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1760	1760	1760	1760	1760	
5°	1745	1762	1754	1734	1745	165
15°	1616	1681	1652	1584	1616	454
25°	1368	1485	1438	1322	1368	626
35°	998	1158	1088	937	998	610
45°	318	514	397	232	318	256
55°	29	33	29	25	29	32
65°	13	14	13	11	13	13
75°	5	6	5	4	5	6
85°	1	2	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5
0.5°	1760.0	1759.8	1761.0	1761.9	1761.2	1761.9	1762.4	1762.4	1760.7	1759.5	1759.5
1°	1759.0	1759.5	1761.0	1762.7	1762.2	1762.9	1763.4	1762.9	1760.7	1758.8	1758.6
1.5°	1758.1	1759.0	1761.0	1763.2	1762.9	1763.9	1764.1	1763.2	1760.5	1758.1	1757.3
2°	1756.9	1758.3	1761.0	1763.4	1763.6	1764.4	1764.6	1763.2	1760.0	1757.1	1755.9
2.5°	1755.4	1757.3	1760.5	1763.4	1763.9	1764.9	1764.6	1763.2	1759.5	1755.9	1754.4
3°	1753.7	1756.1	1759.8	1762.9	1763.9	1764.9	1764.6	1762.9	1758.6	1754.7	1752.5
3.5°	1751.8	1754.7	1758.8	1762.2	1763.9	1764.9	1764.4	1762.2	1757.6	1753.0	1750.6
4°	1749.8	1753.2	1757.6	1761.5	1763.4	1764.4	1763.9	1761.7	1756.6	1751.5	1748.4
4.5°	1747.7	1751.5	1756.1	1760.5	1762.9	1763.9	1763.2	1761.0	1755.4	1749.8	1745.7
5°	1745.0	1749.6	1754.7	1759.5	1762.4	1763.2	1762.4	1759.8	1753.7	1747.7	1743.3
5.5°	1742.1	1747.2	1752.7	1758.3	1761.5	1762.4	1761.5	1758.3	1752.0	1745.5	1740.4
6°	1738.7	1744.5	1751.1	1756.9	1760.5	1761.5	1760.3	1756.9	1749.6	1742.8	1737.0
6.5°	1734.8	1741.1	1748.9	1755.2	1759.0	1760.3	1759.0	1754.7	1746.7	1739.7	1733.4
7°	1730.5	1737.7	1746.5	1753.0	1757.1	1758.6	1757.6	1752.3	1743.5	1736.3	1729.5
7.5°	1725.9	1733.6	1743.8	1750.3	1754.7	1756.6	1755.7	1749.1	1740.2	1732.2	1725.1
8°	1720.5	1729.3	1740.9	1747.4	1752.0	1754.2	1753.5	1746.2	1736.5	1728.3	1720.3
8.5°	1715.0	1724.2	1737.2	1744.3	1748.9	1751.3	1750.8	1742.8	1732.2	1723.7	1715.2
9°	1709.4	1719.3	1733.4	1740.6	1745.5	1748.4	1747.9	1738.9	1727.8	1718.6	1709.6
9.5°	1703.1	1713.8	1729.0	1736.8	1741.8	1744.8	1744.5	1734.8	1723.0	1713.5	1703.8
10°	1697.1	1708.4	1724.2	1732.6	1737.7	1741.1	1740.6	1730.5	1718.1	1708.2	1697.5
10.5°	1690.5	1702.4	1719.1	1728.0	1733.1	1737.2	1736.8	1726.1	1713.0	1702.4	1691.0
11°	1683.5	1696.3	1713.5	1723.2	1728.5	1732.6	1732.4	1721.3	1707.5	1696.6	1684.5
11.5°	1676.2	1689.8	1707.7	1717.9	1723.7	1727.8	1727.6	1716.2	1701.7	1690.0	1677.2
12°	1668.5	1683.2	1701.4	1712.5	1718.6	1723.0	1722.2	1710.9	1695.6	1683.5	1669.9
12.5°	1660.7	1676.2	1695.1	1706.7	1713.0	1717.9	1716.7	1705.3	1689.1	1676.5	1662.2
13°	1652.5	1669.0	1688.3	1700.9	1707.5	1712.5	1711.1	1699.2	1682.5	1669.2	1654.4
13.5°	1643.8	1661.5	1681.1	1694.6	1701.2	1706.7	1705.0	1693.2	1675.3	1661.7	1646.4
14°	1634.8	1653.5	1673.8	1688.1	1694.9	1700.7	1698.5	1686.6	1668.0	1653.9	1637.7
14.5°	1625.4	1644.7	1666.1	1681.1	1688.1	1694.1	1692.0	1679.6	1660.0	1645.5	1629.2
15°	1616.2	1636.3	1658.1	1673.6	1681.1	1687.4	1684.9	1672.6	1652.0	1637.0	1620.3
15.5°	1606.0	1627.3	1649.8	1665.8	1673.8	1680.1	1677.7	1665.1	1643.8	1628.3	1611.1
16°	1595.8	1617.9	1641.4	1658.1	1666.3	1672.8	1670.2	1657.1	1635.1	1619.1	1601.4
16.5°	1585.7	1608.4	1632.4	1650.1	1658.3	1665.3	1662.7	1648.6	1626.1	1609.6	1591.5
17°	1575.0	1598.7	1623.2	1641.6	1650.1	1657.3	1654.4	1640.6	1617.1	1599.7	1581.1
17.5°	1563.9	1588.6	1613.5	1632.4	1641.6	1648.9	1646.0	1631.7	1607.5	1589.8	1570.6
18°	1552.7	1577.9	1603.8	1623.2	1632.9	1640.4	1637.5	1622.5	1597.8	1579.6	1560.0
18.5°	1541.1	1567.0	1593.6	1613.7	1623.7	1631.4	1628.3	1613.3	1587.6	1568.9	1548.6
19°	1529.2	1556.1	1583.2	1604.1	1614.5	1622.0	1618.8	1603.6	1577.4	1558.3	1537.5
19.5°	1517.4	1544.7	1572.6	1593.9	1605.0	1612.5	1609.4	1593.6	1567.0	1547.2	1525.8
20°	1505.0	1533.1	1561.7	1584.0	1595.3	1602.6	1599.5	1583.5	1556.4	1536.0	1514.0
20.5°	1492.2	1520.8	1550.5	1573.3	1585.4	1592.9	1589.3	1572.8	1545.2	1524.1	1501.9
21°	1479.1	1508.4	1539.2	1562.7	1575.0	1582.5	1578.9	1562.2	1534.3	1512.5	1489.5



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1438.9	1469.9	1503.1	1529.0	1543.3	1550.5	1545.9	1529.0	1499.0	1476.0	1450.8
23°	1425.1	1456.1	1490.7	1517.4	1531.9	1539.2	1534.6	1517.4	1487.1	1463.4	1437.5
23.5°	1411.3	1442.8	1478.1	1505.5	1520.3	1528.0	1522.7	1505.3	1475.2	1450.3	1423.9
24°	1397.3	1428.7	1464.8	1493.4	1508.9	1516.2	1510.6	1493.2	1463.1	1437.2	1410.3
24.5°	1383.0	1414.9	1451.5	1481.0	1497.0	1504.0	1498.2	1481.0	1450.8	1423.9	1396.3
25°	1368.4	1400.6	1437.9	1468.2	1484.9	1491.7	1486.1	1468.5	1437.9	1410.3	1381.8
25.5°	1352.9	1386.4	1424.4	1455.6	1473.1	1479.6	1473.3	1455.9	1424.6	1396.8	1367.5
26°	1337.0	1372.1	1410.6	1442.5	1460.9	1467.0	1460.5	1443.3	1410.6	1383.2	1352.9
26.5°	1320.7	1357.5	1396.3	1429.7	1448.1	1453.9	1447.1	1430.4	1395.8	1368.9	1338.2
27°	1304.0	1342.3	1382.0	1416.4	1434.5	1440.8	1434.1	1417.1	1380.5	1354.4	1323.2
27.5°	1286.8	1326.3	1367.2	1402.6	1420.5	1428.0	1420.5	1403.3	1364.8	1339.4	1307.7
28°	1269.4	1309.8	1352.5	1388.5	1405.7	1414.7	1406.7	1388.5	1348.8	1323.2	1292.4
28.5°	1251.7	1293.4	1337.7	1374.5	1390.5	1400.6	1392.7	1373.5	1332.4	1307.2	1277.1
29°	1233.1	1276.2	1322.2	1359.7	1375.0	1386.1	1378.9	1358.3	1315.6	1290.9	1261.6
29.5°	1214.9	1259.5	1307.2	1344.5	1358.8	1371.1	1364.3	1342.5	1298.0	1274.2	1245.9
30°	1196.3	1241.8	1291.7	1328.2	1342.0	1355.8	1349.8	1325.8	1280.3	1257.0	1229.7
30.5°	1177.1	1224.1	1276.4	1312.0	1324.9	1339.6	1335.0	1309.1	1262.4	1239.6	1213.9
31°	1158.0	1205.7	1260.4	1295.3	1307.4	1323.9	1320.5	1292.2	1244.2	1221.9	1198.0
31.5°	1138.6	1188.0	1244.9	1278.4	1289.5	1306.9	1305.2	1275.0	1225.8	1204.0	1181.7
32°	1119.5	1169.1	1228.7	1260.9	1271.6	1290.0	1290.2	1257.5	1206.9	1186.1	1165.3
32.5°	1099.9	1151.2	1212.7	1242.8	1253.4	1272.5	1275.0	1239.6	1188.3	1168.4	1148.8
33°	1079.8	1132.6	1196.5	1225.1	1234.8	1255.4	1259.7	1221.2	1168.9	1149.8	1131.9
33.5°	1059.7	1113.7	1180.3	1206.2	1215.6	1237.2	1244.2	1202.8	1149.3	1131.6	1114.4
34°	1039.6	1094.6	1162.6	1188.5	1197.0	1219.3	1228.5	1184.4	1129.4	1113.4	1097.0
34.5°	1018.8	1075.9	1146.1	1169.6	1177.6	1201.4	1212.5	1165.8	1108.6	1094.8	1078.6
35°	997.7	1056.3	1128.7	1151.0	1158.2	1183.2	1196.3	1146.9	1088.3	1075.7	1060.7
35.5°	977.8	1036.9	1111.8	1131.9	1137.9	1164.5	1179.6	1127.7	1067.9	1056.8	1042.3
36°	956.5	1017.6	1093.8	1113.9	1117.8	1146.4	1162.4	1108.4	1047.8	1037.7	1024.1
36.5°	937.9	997.7	1076.2	1094.8	1097.5	1127.7	1144.9	1088.7	1026.5	1018.3	1005.9
37°	907.4	977.8	1058.0	1075.7	1076.6	1108.1	1127.3	1069.1	1003.3	998.7	987.0
37.5°	876.6	958.0	1040.3	1056.1	1056.1	1089.2	1109.3	1048.8	974.2	979.3	968.6
38°	836.4	938.1	1021.9	1036.7	1034.0	1069.6	1091.4	1028.9	941.3	959.7	950.5
38.5°	799.4	918.5	1004.0	1016.6	1011.7	1050.0	1073.2	1009.3	904.0	939.8	932.8
39°	761.8	898.4	985.3	997.7	982.4	1030.6	1054.8	989.0	863.8	917.5	914.4
39.5°	723.8	866.9	967.4	977.6	951.7	1010.5	1036.4	969.4	821.2	890.4	896.5
40°	683.4	831.6	949.3	958.0	915.1	990.9	1018.0	940.8	779.8	859.4	879.0
40.5°	643.7	794.5	931.3	938.4	874.4	971.1	999.9	911.2	740.0	824.1	862.3
41°	603.2	758.2	913.4	911.7	833.0	943.5	981.2	877.3	700.1	787.0	845.6
41.5°	563.7	722.1	896.0	886.3	791.4	917.5	963.8	840.3	661.8	748.8	829.4
42°	526.2	685.3	878.8	854.3	750.2	884.1	945.9	802.3	621.6	710.3	812.7
42.5°	491.1	646.8	861.8	820.2	710.0	848.5	928.7	761.8	583.1	673.4	796.7
43°	456.0	608.1	845.1	783.6	671.3	810.3	912.0	724.5	542.9	637.1	780.0
43.5°	420.1	569.8	827.9	745.4	632.0	770.8	895.0	687.0	504.9	601.3	763.8



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	317.7	463.0	778.5	633.7	514.3	656.3	845.4	576.1	397.4	492.8	714.9
45.5°	286.7	428.4	762.1	598.6	477.1	619.2	828.7	538.6	363.0	457.7	698.4
46°	257.2	394.5	745.4	563.3	441.2	582.4	811.5	502.0	329.8	423.3	682.6
46.5°	227.6	361.1	729.1	527.4	405.9	544.9	795.3	466.2	297.4	391.1	656.5
47°	200.3	327.6	709.5	491.3	371.2	506.8	778.3	431.0	266.1	358.2	625.5
47.5°	175.1	296.9	684.6	456.2	337.1	471.0	760.9	397.4	239.5	326.9	589.2
48°	152.1	267.1	655.3	422.3	304.9	436.1	743.4	364.7	213.1	295.9	549.0
48.5°	132.2	238.5	623.3	389.6	273.6	402.0	719.5	332.2	186.7	266.9	509.0
49°	115.0	211.2	592.8	358.2	247.0	368.3	688.7	300.3	160.3	240.5	468.1
49.5°	100.5	185.3	557.0	326.7	220.6	335.6	656.7	270.0	138.3	214.1	428.4
50°	88.1	160.8	522.1	295.7	194.0	303.2	619.0	244.1	118.7	187.4	389.4
50.5°	78.5	138.5	483.3	265.6	167.6	273.2	578.5	218.2	100.7	161.3	353.1
51°	68.5	119.6	442.9	237.1	141.4	246.5	536.6	192.5	85.0	139.7	317.2
51.5°	58.8	103.4	403.7	210.0	121.3	219.9	494.5	166.6	71.2	119.9	284.3
52°	49.2	89.8	365.7	185.0	102.2	193.2	453.6	140.9	58.1	101.5	256.7
52.5°	39.5	79.7	328.6	161.0	85.0	166.6	414.3	120.4	46.5	84.8	229.3
53°	34.4	69.7	295.2	138.8	70.2	140.2	377.0	101.7	37.3	70.2	202.0
53.5°	32.7	59.6	262.5	117.9	57.1	119.1	340.5	85.5	33.2	57.4	174.4
54°	31.5	49.6	232.0	99.5	44.8	99.8	306.1	71.0	31.7	45.8	147.0
54.5°	30.3	39.7	202.9	82.1	35.8	83.3	272.7	58.1	30.5	35.4	125.7
55°	29.1	32.4	177.3	69.5	32.7	68.0	243.6	46.3	29.1	28.3	107.3
55.5°	27.8	29.3	152.6	57.1	31.5	54.5	215.0	35.6	27.8	27.1	90.8
56°	26.6	28.1	130.5	44.6	30.0	42.4	186.2	28.8	26.9	26.2	76.5
56.5°	25.7	26.9	110.9	32.2	28.6	32.4	157.4	27.6	25.7	25.2	63.9
57°	24.7	25.9	93.5	27.6	27.4	27.8	134.6	26.4	24.7	24.2	53.5
57.5°	23.7	24.9	79.4	26.6	26.4	26.6	113.8	25.4	23.7	23.2	45.0
58°	22.8	24.0	69.3	25.7	25.2	25.7	94.9	24.5	22.8	22.5	38.3
58.5°	21.8	23.2	59.1	24.7	24.2	24.7	78.5	23.7	21.8	21.6	32.9
59°	20.8	22.3	48.9	23.7	23.2	23.7	63.9	22.8	20.8	20.8	28.6
59.5°	20.1	21.6	38.7	23.0	22.3	22.8	51.8	22.0	20.1	20.1	25.4
60°	19.4	20.8	33.7	22.0	21.3	22.0	42.6	21.3	19.4	19.4	23.0
60.5°	18.6	20.1	29.3	21.3	20.3	21.3	35.6	20.3	18.4	18.9	20.8
61°	17.9	19.4	25.9	20.6	19.6	20.3	30.3	19.9	17.7	18.2	19.6
61.5°	17.2	18.6	23.0	19.9	18.9	19.6	26.4	19.1	17.0	17.4	18.9
62°	16.5	17.9	21.1	19.1	18.2	19.1	23.5	18.4	16.2	17.0	18.2
62.5°	15.7	17.4	19.6	18.4	17.4	18.4	21.3	17.7	15.5	16.2	17.4
63°	15.0	16.7	18.9	17.9	16.5	17.7	19.6	17.2	14.8	15.7	16.7
63.5°	14.5	16.2	18.4	17.2	15.7	17.0	18.9	16.5	14.3	15.0	16.2
64°	13.8	15.5	17.7	16.5	15.3	16.5	18.2	16.0	13.6	14.5	15.5
64.5°	13.3	15.0	17.2	16.0	14.5	15.7	17.4	15.3	13.1	14.0	15.0
65°	12.8	14.5	16.5	15.5	13.8	15.3	16.7	14.8	12.6	13.6	14.5
65.5°	12.4	14.0	16.0	14.8	13.3	14.8	16.0	14.3	11.9	13.1	14.0
66°	11.6	13.3	15.3	14.3	12.8	14.0	15.5	13.6	11.4	12.6	13.6



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.4	11.9	13.8	12.8	11.1	12.6	14.0	12.1	9.9	11.1	12.1
68°	9.9	11.4	13.3	12.4	10.7	12.1	13.3	11.6	9.7	10.7	11.6
68.5°	9.4	11.1	12.8	11.9	10.2	11.6	12.8	11.1	9.2	10.2	11.1
69°	9.0	10.7	12.4	11.4	9.7	11.1	12.4	10.9	8.7	9.9	10.7
69.5°	8.7	10.2	11.9	10.9	9.4	10.9	11.9	10.4	8.5	9.4	10.2
70°	8.2	9.7	11.4	10.4	9.0	10.4	11.4	9.9	8.0	9.0	9.7
70.5°	8.0	9.4	10.9	10.2	8.5	9.9	11.1	9.4	7.7	8.7	9.4
71°	7.5	9.0	10.4	9.7	8.2	9.7	10.7	9.2	7.3	8.2	9.0
71.5°	7.3	8.7	9.9	9.2	7.7	9.2	10.2	8.7	7.0	8.0	8.5
72°	6.8	8.2	9.7	9.0	7.5	8.7	9.7	8.5	6.5	7.5	8.2
72.5°	6.5	8.0	9.2	8.5	7.0	8.5	9.2	8.0	6.3	7.3	7.7
73°	6.3	7.5	8.7	8.2	6.8	8.0	9.0	7.7	6.1	7.0	7.5
73.5°	5.8	7.3	8.5	7.7	6.5	7.7	8.5	7.3	5.8	6.5	7.0
74°	5.6	6.8	8.0	7.5	6.3	7.5	8.2	7.0	5.3	6.3	6.8
74.5°	5.3	6.5	7.5	7.0	5.8	7.0	7.7	6.8	5.1	6.1	6.3
75°	5.1	6.3	7.3	6.8	5.6	6.8	7.5	6.3	4.8	5.6	6.1
75.5°	4.8	5.8	6.8	6.5	5.3	6.5	7.0	6.1	4.6	5.3	5.8
76°	4.6	5.6	6.5	6.3	5.1	6.3	6.8	5.8	4.4	5.1	5.3
76.5°	4.4	5.3	6.3	5.8	4.8	5.8	6.3	5.3	4.1	4.8	5.1
77°	4.1	5.1	5.8	5.6	4.6	5.6	6.1	5.1	3.9	4.6	4.8
77.5°	3.9	4.8	5.6	5.3	4.4	5.3	5.8	4.8	3.6	4.4	4.6
78°	3.6	4.6	5.3	5.1	4.1	5.1	5.3	4.6	3.4	4.1	4.1
78.5°	3.4	4.1	4.8	4.8	3.9	4.8	5.1	4.4	3.1	3.6	3.9
79°	3.1	3.9	4.6	4.4	3.6	4.6	4.8	4.1	3.1	3.4	3.6
79.5°	2.9	3.6	4.4	4.1	3.4	4.4	4.6	3.9	2.9	3.1	3.4
80°	2.7	3.4	4.1	3.9	3.1	3.9	4.1	3.6	2.7	2.9	3.1
80.5°	2.4	3.1	3.9	3.6	3.1	3.6	3.9	3.1	2.4	2.7	2.9
81°	2.2	2.9	3.6	3.4	2.9	3.4	3.6	2.9	2.2	2.4	2.7
81.5°	2.2	2.7	3.1	3.1	2.7	3.4	3.4	2.9	2.2	2.4	2.4
82°	1.9	2.4	2.9	2.9	2.4	3.1	3.1	2.7	1.9	2.2	2.2
82.5°	1.7	2.2	2.7	2.7	2.2	2.9	2.9	2.4	1.7	1.9	1.9
83°	1.5	1.9	2.4	2.4	2.2	2.7	2.7	2.2	1.5	1.7	1.7
83.5°	1.5	1.7	2.2	2.2	1.9	2.4	2.4	1.9	1.5	1.5	1.5
84°	1.2	1.7	1.9	2.2	1.7	2.2	2.2	1.7	1.2	1.2	1.2
84.5°	1.0	1.5	1.7	1.9	1.7	1.9	1.9	1.5	1.0	1.0	1.2
85°	1.0	1.2	1.5	1.7	1.5	1.7	1.7	1.2	1.0	1.0	1.0
85.5°	0.7	1.0	1.5	1.5	1.5	1.7	1.5	1.0	0.7	0.7	0.7
86°	0.5	0.7	1.2	1.2	1.2	1.5	1.2	1.0	0.7	0.5	0.5
86.5°	0.5	0.5	1.0	1.2	1.0	1.2	1.2	0.7	0.5	0.5	0.5
87°	0.2	0.5	0.7	1.0	1.0	1.0	1.0	0.5	0.5	0.2	0.2
87.5°	0.2	0.2	0.7	0.7	0.7	1.0	0.7	0.5	0.2	0.2	0.2
88°	0.2	0.2	0.5	0.7	0.7	0.7	0.7	0.2	0.2	0.0	0.0
88.5°	0.0	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.0	0.0



TEST NUMBER: P776180
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1760.5	1760.5	1760.5	1760.5	1760.5	1760.5
0.5°	1760.0	1758.3	1759.0	1760.0	1760.5	1760.0
1°	1758.6	1756.6	1757.3	1758.3	1759.3	1759.0
1.5°	1756.9	1754.7	1755.4	1756.6	1757.6	1758.1
2°	1755.2	1752.7	1753.2	1754.7	1755.9	1756.9
2.5°	1753.2	1750.6	1751.1	1752.5	1754.0	1755.4
3°	1751.3	1747.9	1748.6	1749.8	1752.0	1753.7
3.5°	1748.6	1745.0	1745.5	1747.4	1749.6	1751.8
4°	1746.0	1741.6	1742.3	1744.5	1747.4	1749.8
4.5°	1742.8	1737.7	1738.5	1741.1	1744.8	1747.7
5°	1739.2	1733.6	1734.3	1737.7	1741.6	1745.0
5.5°	1735.3	1728.8	1729.7	1734.1	1738.5	1742.1
6°	1731.0	1724.2	1725.1	1730.0	1734.8	1738.7
6.5°	1726.4	1718.6	1719.8	1725.4	1731.0	1734.8
7°	1721.5	1713.0	1714.2	1720.5	1726.4	1730.5
7.5°	1715.9	1707.0	1708.2	1715.2	1721.5	1725.9
8°	1710.4	1700.9	1702.1	1709.6	1716.2	1720.5
8.5°	1704.6	1694.4	1695.8	1703.6	1710.1	1715.0
9°	1698.5	1687.6	1689.3	1697.1	1704.1	1709.4
9.5°	1692.2	1680.6	1682.3	1690.3	1697.5	1703.1
10°	1685.9	1673.6	1675.3	1683.0	1691.0	1697.1
10.5°	1678.9	1665.8	1667.7	1675.5	1684.0	1690.5
11°	1671.9	1657.8	1660.0	1667.5	1676.7	1683.5
11.5°	1664.6	1649.8	1652.0	1659.5	1669.0	1676.2
12°	1656.9	1641.1	1643.5	1651.0	1661.0	1668.5
12.5°	1648.6	1632.2	1634.8	1642.1	1652.5	1660.7
13°	1640.4	1622.9	1625.9	1633.1	1644.0	1652.5
13.5°	1631.4	1613.3	1616.4	1624.2	1635.1	1643.8
14°	1622.5	1603.6	1606.5	1614.5	1625.9	1634.8
14.5°	1613.3	1593.9	1596.6	1604.5	1615.9	1625.4
15°	1603.6	1583.5	1586.1	1594.6	1606.2	1616.2
15.5°	1593.9	1572.6	1575.7	1584.0	1595.8	1606.0
16°	1583.7	1561.9	1564.8	1573.3	1585.2	1595.8
16.5°	1573.3	1551.0	1553.9	1562.4	1574.5	1585.7
17°	1562.4	1539.6	1542.3	1550.8	1563.6	1575.0
17.5°	1551.5	1528.0	1530.7	1539.2	1552.0	1563.9
18°	1540.1	1515.7	1518.6	1527.1	1540.6	1552.7
18.5°	1528.5	1503.6	1506.5	1514.9	1528.5	1541.1
19°	1516.9	1491.0	1493.9	1502.6	1516.4	1529.2
19.5°	1504.5	1478.1	1480.8	1490.0	1504.0	1517.4
20°	1492.4	1465.1	1468.0	1476.9	1491.5	1505.0
20.5°	1479.6	1452.0	1454.4	1463.9	1478.6	1492.2
21°	1466.5	1438.7	1440.8	1450.5	1465.1	1479.1

TEST NUMBER: P776180

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1426.6	1397.7	1399.0	1408.9	1424.1	1438.9
23°	1413.0	1383.5	1384.4	1394.8	1409.6	1425.1
23.5°	1399.2	1369.2	1370.6	1380.5	1395.3	1411.3
24°	1385.4	1353.9	1355.6	1365.8	1381.0	1397.3
24.5°	1370.9	1338.4	1341.1	1350.8	1366.3	1383.0
25°	1356.6	1321.7	1325.8	1335.5	1351.5	1368.4
25.5°	1341.8	1305.0	1310.3	1320.5	1336.2	1352.9
26°	1326.8	1287.8	1293.9	1305.2	1321.2	1337.0
26.5°	1310.3	1270.4	1277.6	1289.7	1306.0	1320.7
27°	1293.9	1252.2	1260.4	1273.5	1290.2	1304.0
27.5°	1277.1	1234.0	1243.0	1257.5	1274.0	1286.8
28°	1259.7	1215.2	1224.8	1241.5	1257.0	1269.4
28.5°	1242.0	1196.3	1207.2	1224.8	1239.9	1251.7
29°	1224.1	1176.9	1189.0	1209.1	1222.7	1233.1
29.5°	1206.4	1158.2	1170.6	1192.9	1205.2	1214.9
30°	1187.8	1138.9	1151.7	1176.2	1186.6	1196.3
30.5°	1169.1	1119.0	1133.1	1159.2	1168.7	1177.1
31°	1150.3	1098.9	1113.9	1143.0	1150.3	1158.0
31.5°	1131.1	1079.5	1094.8	1125.8	1131.9	1138.6
32°	1112.2	1059.4	1075.4	1108.6	1112.7	1119.5
32.5°	1093.6	1039.1	1056.5	1090.7	1094.6	1099.9
33°	1074.2	1018.8	1037.2	1073.7	1075.9	1079.8
33.5°	1054.6	997.7	1017.8	1056.1	1056.8	1059.7
34°	1035.0	977.6	997.9	1038.1	1037.9	1039.6
34.5°	1015.4	956.8	977.8	1019.7	1019.0	1018.8
35°	995.8	937.2	958.2	1001.3	999.9	997.7
35.5°	976.4	913.7	938.4	983.2	981.2	977.8
36°	956.3	882.4	918.3	964.8	961.6	956.5
36.5°	936.7	845.1	898.7	946.4	942.2	937.9
37°	917.1	806.6	879.8	927.7	922.9	907.4
37.5°	897.4	769.1	858.9	909.3	903.5	876.6
38°	879.5	729.6	828.9	891.1	884.1	836.4
38.5°	849.3	690.6	793.8	873.2	864.0	799.4
39°	816.1	650.2	758.0	855.8	846.8	761.8
39.5°	780.0	609.8	722.6	837.9	816.6	723.8
40°	743.9	571.0	687.0	820.4	785.6	683.4
40.5°	708.1	532.7	650.7	803.5	749.7	643.7
41°	670.8	496.4	612.7	786.8	714.6	603.2
41.5°	633.2	461.1	574.9	770.1	681.0	563.7
42°	594.5	425.7	538.3	753.4	647.0	526.2
42.5°	557.5	390.1	503.7	737.4	611.7	491.1
43°	521.1	356.0	469.8	721.1	575.1	456.0
43.5°	486.5	323.3	436.1	705.2	538.6	420.1



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	385.0	232.5	338.1	656.7	437.6	317.7
45.5°	352.1	205.1	306.8	632.5	404.9	286.7
46°	319.4	178.7	278.0	606.6	372.7	257.2
46.5°	289.1	155.7	248.9	576.3	341.0	227.6
47°	260.3	134.9	221.3	548.7	310.0	200.3
47.5°	233.9	117.0	194.5	515.1	280.4	175.1
48°	207.8	101.9	170.0	480.9	251.8	152.1
48.5°	181.4	89.6	147.7	441.5	224.5	132.2
49°	155.2	79.9	127.6	404.9	198.3	115.0
49.5°	133.7	70.2	109.9	368.6	173.4	100.5
50°	115.3	60.5	95.7	335.1	150.4	88.1
50.5°	99.0	50.9	82.8	302.7	129.3	78.5
51°	86.0	41.2	73.4	273.2	111.4	68.5
51.5°	74.8	34.6	63.9	243.9	96.4	58.8
52°	65.1	32.4	54.5	217.5	83.1	49.2
52.5°	55.9	31.0	45.0	191.5	73.4	39.5
53°	46.7	29.8	36.6	168.1	63.4	34.4
53.5°	38.0	28.6	30.0	146.0	53.8	32.7
54°	31.2	27.4	27.8	126.9	43.8	31.5
54.5°	27.8	26.2	26.9	109.0	35.4	30.3
55°	26.9	25.2	25.9	93.5	29.3	29.1
55.5°	25.9	24.2	24.9	82.6	27.6	27.8
56°	24.9	23.2	24.0	71.9	26.6	26.6
56.5°	24.0	22.3	23.0	61.3	25.7	25.7
57°	23.2	21.3	22.3	50.4	24.7	24.7
57.5°	22.3	20.3	21.3	40.0	23.7	23.7
58°	21.6	19.6	20.6	34.4	23.0	22.8
58.5°	20.8	18.9	19.9	29.8	22.3	21.8
59°	20.1	18.2	19.1	26.2	21.6	20.8
59.5°	19.4	17.4	18.4	23.2	20.8	20.1
60°	18.6	16.7	17.9	21.1	20.1	19.4
60.5°	18.2	16.0	17.2	19.9	19.4	18.6
61°	17.4	15.3	16.7	19.1	18.6	17.9
61.5°	16.7	14.8	16.0	18.4	17.9	17.2
62°	16.2	14.0	15.5	17.7	17.4	16.5
62.5°	15.5	13.6	14.8	17.2	16.7	15.7
63°	15.0	12.8	14.3	16.5	16.2	15.0
63.5°	14.5	12.4	13.8	16.0	15.5	14.5
64°	13.8	11.9	13.3	15.5	15.0	13.8
64.5°	13.3	11.4	12.8	14.8	14.5	13.3
65°	12.8	10.9	12.4	14.3	14.0	12.8
65.5°	12.4	10.4	11.9	13.8	13.3	12.4
66°	11.9	9.9	11.4	13.3	12.8	11.6



TEST NUMBER: P776180

CATALOG NUMBER: HCDJBL1525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	10.7	8.7	10.2	11.9	11.4	10.4
68°	10.2	8.2	9.7	11.4	10.9	9.9
68.5°	9.7	8.0	9.4	10.9	10.7	9.4
69°	9.4	7.5	9.0	10.4	10.2	9.0
69.5°	9.0	7.3	8.7	10.2	9.7	8.7
70°	8.7	7.0	8.2	9.7	9.2	8.2
70.5°	8.2	6.5	8.0	9.2	9.0	8.0
71°	8.0	6.3	7.5	9.0	8.5	7.5
71.5°	7.5	6.1	7.3	8.5	8.2	7.3
72°	7.3	5.8	7.0	8.0	7.7	6.8
72.5°	7.0	5.3	6.5	7.7	7.5	6.5
73°	6.5	5.1	6.3	7.3	7.0	6.3
73.5°	6.3	4.8	6.1	7.0	6.8	5.8
74°	6.1	4.6	5.8	6.5	6.3	5.6
74.5°	5.6	4.4	5.3	6.3	6.1	5.3
75°	5.3	4.1	5.1	6.1	5.8	5.1
75.5°	5.1	3.9	4.8	5.6	5.6	4.8
76°	4.8	3.6	4.6	5.3	5.1	4.6
76.5°	4.6	3.6	4.4	5.1	4.8	4.4
77°	4.4	3.4	4.1	4.6	4.6	4.1
77.5°	4.1	3.1	3.9	4.4	4.4	3.9
78°	3.9	2.9	3.6	4.1	4.1	3.6
78.5°	3.6	2.7	3.4	3.9	3.6	3.4
79°	3.4	2.4	3.1	3.6	3.4	3.1
79.5°	3.1	2.4	2.9	3.4	3.1	2.9
80°	2.9	2.2	2.7	2.9	2.9	2.7
80.5°	2.7	1.9	2.4	2.7	2.7	2.4
81°	2.4	1.9	2.2	2.4	2.4	2.2
81.5°	2.2	1.7	1.9	2.2	2.2	2.2
82°	1.9	1.5	1.9	1.9	1.9	1.9
82.5°	1.7	1.5	1.7	1.9	1.7	1.7
83°	1.5	1.2	1.5	1.7	1.5	1.5
83.5°	1.5	1.0	1.2	1.5	1.2	1.5
84°	1.2	1.0	1.0	1.2	1.0	1.2
84.5°	1.0	0.7	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	1.0	0.7	1.0
85.5°	0.7	0.5	0.5	0.7	0.5	0.7
86°	0.5	0.2	0.5	0.5	0.5	0.5
86.5°	0.2	0.2	0.2	0.5	0.2	0.5
87°	0.2	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.2	0.2
88°	0.0	0.0	0.0	0.0	0.0	0.2
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776180
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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°	1465.8	1495.8	1527.3	1551.8	1564.6	1572.1	1568.0	1551.3	1522.7	1500.4	1476.9
22°	1452.5	1483.0	1515.2	1540.6	1553.9	1561.4	1557.3	1540.1	1511.1	1488.6	1464.1



44°	384.1	532.7	811.2	707.6	593.0	731.8	878.3	650.2	467.4	565.0	746.8
44.5°	350.4	497.4	794.8	670.3	553.6	693.1	861.8	612.2	432.5	528.9	731.1



66.5°	11.1	12.8	14.8	13.8	12.1	13.6	15.0	13.1	10.9	12.1	12.8
67°	10.7	12.4	14.3	13.3	11.6	13.1	14.5	12.6	10.4	11.6	12.4



89°	0.0	0.0	0.2	0.2	0.5	0.5	0.2	0.2	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	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°	1453.2	1425.1	1427.0	1437.0	1451.5	1465.8
22°	1440.1	1411.3	1413.0	1423.2	1437.7	1452.5



44°	451.6	291.3	403.0	689.2	503.0	384.1
44.5°	418.2	262.3	370.3	673.0	470.3	350.4



66.5°	11.4	9.4	10.9	12.8	12.4	11.1
67°	11.1	9.2	10.7	12.4	11.9	10.7

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)