

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: P776205

Luminaire Tested: HCDJBS1525CSD-HCD8TSQH-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B005-HCD4TSQC)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TSQH-2500lm-2700K  
Description: 8 INCH SQUARE MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

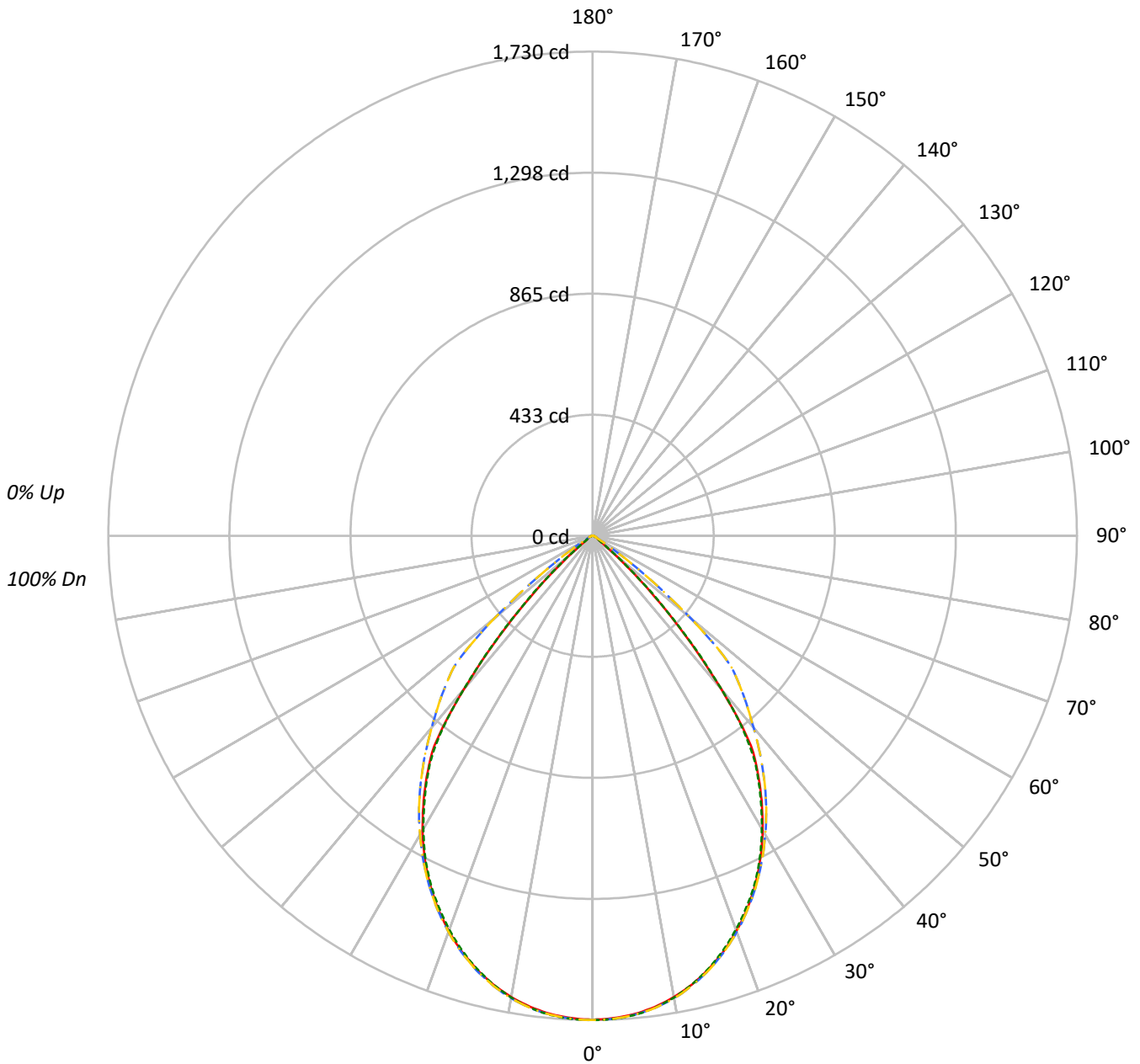
Lumens per Lamp: N/A  
Luminaire Lumens: 2382.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76	76	76	76
4	94	85	79	74	92	84	78	73	82	77	72	80	75	72	78	74	71	69	69	69	69
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58	58	58	58
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48	48	48	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41

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

	0°	90°	180°	270°
0°	41480	41480	41480	41480
5°	41285	41372	41285	41372
10°	40747	40783	40747	40783
15°	39776	39729	39776	39729
20°	38340	38199	38340	38199
25°	36363	36241	36363	36241
30°	33630	33475	33630	33475
35°	30051	29896	30051	29896
40°	22318	22440	22318	22440
45°	11696	11991	11696	11991
50°	3794	4103	3794	4103
55°	1254	1154	1254	1154
60°	954	892	954	892
65°	726	704	726	704
70°	575	561	575	561
75°	472	472	472	472
80°	373	400	373	400
85°	275	275	275	275

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 24860 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.6	6.8
10°-20°	450.7	18.9
20°-30°	631.3	26.5
30°-40°	648.5	27.2
40°-50°	392.9	16.5
50°-60°	73.8	3.1
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°	1244.7	52.3
0°-40°	1893.2	79.5
0°-60°	2359.9	99.1
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1730	1730	1730	1730	1730	
5°	1715	1719	1715	1719	1715	162
15°	1602	1600	1602	1600	1602	450
25°	1374	1370	1374	1370	1374	630
35°	1027	1021	1027	1021	1027	627
45°	345	354	345	354	345	276
55°	30	28	30	28	30	34
65°	13	12	13	12	13	13
75°	5	5	5	5	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P776205

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9
0.5°	1728.2	1729.0	1730.2	1730.9	1730.4	1730.9	1730.2	1729.0	1728.2	1729.0	1730.2
1°	1728.0	1728.7	1729.7	1730.4	1730.2	1730.4	1729.7	1728.7	1728.0	1728.7	1729.7
1.5°	1727.3	1728.0	1729.2	1729.9	1729.7	1729.9	1729.2	1728.0	1727.3	1728.0	1729.2
2°	1726.3	1727.0	1728.2	1729.2	1728.7	1729.2	1728.2	1727.0	1726.3	1727.0	1728.2
2.5°	1725.1	1725.8	1727.3	1728.0	1727.8	1728.0	1727.3	1725.8	1725.1	1725.8	1727.3
3°	1723.6	1724.6	1725.8	1726.8	1726.5	1726.8	1725.8	1724.6	1723.6	1724.6	1725.8
3.5°	1721.9	1722.9	1724.4	1725.3	1725.1	1725.3	1724.4	1722.9	1721.9	1722.9	1724.4
4°	1720.0	1721.0	1722.4	1723.6	1723.4	1723.6	1722.4	1721.0	1720.0	1721.0	1722.4
4.5°	1717.8	1718.6	1720.2	1721.5	1721.2	1721.5	1720.2	1718.6	1717.8	1718.6	1720.2
5°	1715.2	1716.1	1718.1	1719.3	1718.8	1719.3	1718.1	1716.1	1715.2	1716.1	1718.1
5.5°	1712.5	1713.5	1715.4	1716.6	1715.9	1716.6	1715.4	1713.5	1712.5	1713.5	1715.4
6°	1709.1	1710.3	1712.5	1713.7	1713.0	1713.7	1712.5	1710.3	1709.1	1710.3	1712.5
6.5°	1705.7	1707.2	1709.3	1710.3	1709.3	1710.3	1709.3	1707.2	1705.7	1707.2	1709.3
7°	1702.1	1703.5	1705.7	1706.4	1705.5	1706.4	1705.7	1703.5	1702.1	1703.5	1705.7
7.5°	1698.0	1699.7	1701.8	1702.3	1701.1	1702.3	1701.8	1699.7	1698.0	1699.7	1701.8
8°	1693.6	1695.5	1697.7	1698.0	1696.8	1698.0	1697.7	1695.5	1693.6	1695.5	1697.7
8.5°	1689.0	1690.9	1693.1	1692.9	1691.7	1692.9	1693.1	1690.9	1689.0	1690.9	1693.1
9°	1684.2	1686.1	1688.3	1687.8	1686.3	1687.8	1688.3	1686.1	1684.2	1686.1	1688.3
9.5°	1679.1	1681.0	1683.2	1682.2	1680.8	1682.2	1683.2	1681.0	1679.1	1681.0	1683.2
10°	1673.5	1675.9	1677.6	1676.7	1675.0	1676.7	1677.6	1675.9	1673.5	1675.9	1677.6
10.5°	1667.7	1670.1	1671.8	1670.6	1668.9	1670.6	1671.8	1670.1	1667.7	1670.1	1671.8
11°	1661.6	1664.3	1665.8	1664.3	1662.4	1664.3	1665.8	1664.3	1661.6	1664.3	1665.8
11.5°	1655.3	1658.0	1659.2	1657.5	1655.6	1657.5	1659.2	1658.0	1655.3	1658.0	1659.2
12°	1648.6	1651.5	1652.4	1650.7	1648.8	1650.7	1652.4	1651.5	1648.6	1651.5	1652.4
12.5°	1641.5	1644.7	1645.4	1643.5	1641.3	1643.5	1645.4	1644.7	1641.5	1644.7	1645.4
13°	1634.3	1637.4	1638.1	1636.0	1633.8	1636.0	1638.1	1637.4	1634.3	1637.4	1638.1
13.5°	1626.8	1629.9	1630.4	1628.2	1625.8	1628.2	1630.4	1629.9	1626.8	1629.9	1630.4
14°	1618.8	1622.4	1622.6	1620.2	1617.6	1620.2	1622.6	1622.4	1618.8	1622.4	1622.6
14.5°	1610.8	1614.2	1614.4	1611.7	1609.1	1611.7	1614.4	1614.2	1610.8	1614.2	1614.4
15°	1602.3	1605.9	1606.2	1603.0	1600.4	1603.0	1606.2	1605.9	1602.3	1605.9	1606.2
15.5°	1593.6	1597.5	1597.2	1594.1	1591.2	1594.1	1597.2	1597.5	1593.6	1597.5	1597.2
16°	1584.6	1588.5	1588.3	1584.9	1582.0	1584.9	1588.3	1588.5	1584.6	1588.5	1588.3
16.5°	1575.4	1579.3	1578.8	1575.4	1572.3	1575.4	1578.8	1579.3	1575.4	1579.3	1578.8
17°	1566.0	1569.9	1569.4	1565.5	1562.3	1565.5	1569.4	1569.9	1566.0	1569.9	1569.4
17.5°	1556.0	1560.2	1559.4	1555.6	1552.2	1555.6	1559.4	1560.2	1556.0	1560.2	1559.4
18°	1545.9	1550.0	1549.0	1545.1	1541.5	1545.1	1549.0	1550.0	1545.9	1550.0	1549.0
18.5°	1535.5	1539.6	1538.9	1534.7	1530.6	1534.7	1538.9	1539.6	1535.5	1539.6	1538.9
19°	1524.8	1529.2	1528.2	1523.8	1519.7	1523.8	1528.2	1529.2	1524.8	1529.2	1528.2
19.5°	1513.7	1518.3	1517.1	1512.7	1508.3	1512.7	1517.1	1518.3	1513.7	1518.3	1517.1
20°	1502.5	1507.1	1505.9	1501.6	1497.0	1501.6	1505.9	1507.1	1502.5	1507.1	1505.9
20.5°	1491.1	1495.7	1494.5	1489.7	1485.1	1489.7	1494.5	1495.7	1491.1	1495.7	1494.5
21°	1479.3	1483.9	1482.9	1477.8	1473.0	1477.8	1482.9	1483.9	1479.3	1483.9	1482.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1442.2	1447.3	1446.1	1440.8	1436.2	1440.8	1446.1	1447.3	1442.2	1447.3	1446.1
23°	1429.4	1434.5	1433.5	1427.9	1423.3	1427.9	1433.5	1434.5	1429.4	1434.5	1433.5
23.5°	1416.1	1421.6	1420.7	1415.1	1410.7	1415.1	1420.7	1421.6	1416.1	1421.6	1420.7
24°	1402.7	1408.1	1407.6	1402.0	1397.7	1402.0	1407.6	1408.1	1402.7	1408.1	1407.6
24.5°	1388.7	1394.5	1394.3	1388.9	1383.9	1388.9	1394.3	1394.5	1388.7	1394.5	1394.3
25°	1374.4	1380.7	1380.5	1375.6	1369.8	1375.6	1380.5	1380.7	1374.4	1380.7	1380.5
25.5°	1360.1	1366.7	1366.7	1361.6	1355.8	1361.6	1366.7	1366.7	1360.1	1366.7	1366.7
26°	1345.1	1352.1	1352.6	1348.0	1341.2	1348.0	1352.6	1352.1	1345.1	1352.1	1352.6
26.5°	1330.1	1337.4	1338.3	1333.7	1326.0	1333.7	1338.3	1337.4	1330.1	1337.4	1338.3
27°	1314.3	1322.3	1323.8	1319.2	1310.2	1319.2	1323.8	1322.3	1314.3	1322.3	1323.8
27.5°	1298.8	1307.1	1309.3	1304.2	1294.5	1304.2	1309.3	1307.1	1298.8	1307.1	1309.3
28°	1282.6	1291.3	1294.5	1288.7	1277.8	1288.7	1294.5	1291.3	1282.6	1291.3	1294.5
28.5°	1266.1	1275.4	1279.2	1272.9	1260.8	1272.9	1279.2	1275.4	1266.1	1275.4	1279.2
29°	1249.0	1259.6	1264.2	1256.9	1243.9	1256.9	1264.2	1259.6	1249.0	1259.6	1264.2
29.5°	1231.8	1243.4	1249.2	1240.2	1226.4	1240.2	1249.2	1243.4	1231.8	1243.4	1249.2
30°	1214.6	1226.7	1233.5	1223.5	1209.0	1223.5	1233.5	1226.7	1214.6	1226.7	1233.5
30.5°	1196.9	1209.7	1218.0	1206.3	1191.1	1206.3	1218.0	1209.7	1196.9	1209.7	1218.0
31°	1178.5	1192.5	1202.0	1189.4	1173.1	1189.4	1202.0	1192.5	1178.5	1192.5	1202.0
31.5°	1160.6	1175.3	1186.2	1171.9	1154.7	1171.9	1186.2	1175.3	1160.6	1175.3	1186.2
32°	1142.1	1157.6	1170.2	1154.5	1136.1	1154.5	1170.2	1157.6	1142.1	1157.6	1170.2
32.5°	1123.5	1139.7	1154.0	1136.3	1117.4	1136.3	1154.0	1139.7	1123.5	1139.7	1154.0
33°	1104.6	1121.8	1137.5	1118.9	1098.8	1118.9	1137.5	1121.8	1104.6	1121.8	1137.5
33.5°	1085.7	1104.1	1120.8	1101.0	1079.7	1101.0	1120.8	1104.1	1085.7	1104.1	1120.8
34°	1066.1	1086.0	1103.9	1083.1	1060.3	1083.1	1103.9	1086.0	1066.1	1086.0	1103.9
34.5°	1046.7	1067.6	1086.9	1065.1	1040.7	1065.1	1086.9	1067.6	1046.7	1067.6	1086.9
35°	1026.6	1049.2	1070.0	1046.7	1021.3	1046.7	1070.0	1049.2	1026.6	1049.2	1070.0
35.5°	1007.3	1031.0	1052.3	1028.6	1001.9	1028.6	1052.3	1031.0	1007.3	1031.0	1052.3
36°	987.2	1012.3	1034.6	1010.2	978.9	1010.2	1034.6	1012.3	987.2	1012.3	1034.6
36.5°	965.6	993.2	1017.4	991.5	953.0	991.5	1017.4	993.2	965.6	993.2	1017.4
37°	939.7	974.6	999.7	972.9	924.4	972.9	999.7	974.6	939.7	974.6	999.7
37.5°	905.8	955.4	982.3	954.0	894.9	954.0	982.3	955.4	905.8	955.4	982.3
38°	871.6	936.5	964.1	935.3	863.4	935.3	964.1	936.5	871.6	936.5	964.1
38.5°	833.8	917.4	946.7	914.7	831.2	914.7	946.7	917.4	833.8	917.4	946.7
39°	794.6	897.5	929.3	890.8	795.1	890.8	929.3	897.5	794.6	897.5	929.3
39.5°	753.7	868.7	912.1	863.9	757.1	863.9	912.1	868.7	753.7	868.7	912.1
40°	713.0	837.7	894.6	834.6	716.9	834.6	894.6	837.7	713.0	837.7	894.6
40.5°	672.3	802.6	877.4	803.3	677.2	803.3	877.4	802.6	672.3	802.6	877.4
41°	633.8	766.3	860.7	769.9	638.9	769.9	860.7	766.3	633.8	766.3	860.7
41.5°	595.5	729.0	844.5	734.8	600.9	734.8	844.5	729.0	595.5	729.0	844.5
42°	558.2	691.7	828.3	698.0	564.1	698.0	828.3	691.7	558.2	691.7	828.3
42.5°	520.9	654.9	812.3	661.2	526.8	661.2	812.3	654.9	520.9	654.9	812.3
43°	484.1	617.6	796.3	624.1	490.7	624.1	796.3	617.6	484.1	617.6	796.3
43.5°	447.1	581.2	780.6	587.8	454.3	587.8	780.6	581.2	447.1	581.2	780.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	344.9	475.7	733.1	483.9	353.6	483.9	733.1	475.7	344.9	475.7	733.1
45.5°	312.9	441.0	717.4	449.5	322.8	449.5	717.4	441.0	312.9	441.0	717.4
46°	283.1	407.6	701.4	415.6	293.3	415.6	701.4	407.6	283.1	407.6	701.4
46.5°	253.8	375.1	684.9	382.7	263.3	382.7	684.9	375.1	253.8	375.1	684.9
47°	225.0	343.2	661.9	350.4	234.2	350.4	661.9	343.2	225.0	343.2	661.9
47.5°	197.4	312.4	633.8	320.4	208.3	320.4	633.8	312.4	197.4	312.4	633.8
48°	173.9	282.6	600.4	290.9	185.5	290.9	600.4	282.6	173.9	282.6	600.4
48.5°	152.3	254.3	565.0	262.3	164.2	262.3	565.0	254.3	152.3	254.3	565.0
49°	133.2	226.7	528.0	234.2	144.8	234.2	528.0	226.7	133.2	226.7	528.0
49.5°	116.5	200.0	489.9	209.0	126.7	209.0	489.9	200.0	116.5	200.0	489.9
50°	101.7	175.1	451.4	184.8	110.0	184.8	451.4	175.1	101.7	175.1	451.4
50.5°	87.9	152.6	413.4	162.5	94.2	162.5	413.4	152.6	87.9	152.6	413.4
51°	75.3	132.5	375.9	141.7	79.2	141.7	375.9	132.5	75.3	132.5	375.9
51.5°	65.1	114.8	340.8	122.8	66.6	122.8	340.8	114.8	65.1	114.8	340.8
52°	55.0	99.3	308.5	106.3	56.7	106.3	308.5	99.3	55.0	99.3	308.5
52.5°	46.3	85.5	277.1	91.1	49.9	91.1	277.1	85.5	46.3	85.5	277.1
53°	40.0	72.9	247.8	77.0	43.4	77.0	247.8	72.9	40.0	72.9	247.8
53.5°	34.1	62.2	218.9	63.9	36.6	63.9	218.9	62.2	34.1	62.2	218.9
54°	32.7	52.1	192.5	52.3	30.0	52.3	192.5	52.1	32.7	52.1	192.5
54.5°	31.2	43.6	167.4	43.4	28.6	43.4	167.4	43.6	31.2	43.6	167.4
55°	30.0	36.1	145.1	36.3	27.6	36.3	145.1	36.1	30.0	36.1	145.1
55.5°	28.8	30.8	125.0	31.2	26.4	31.2	125.0	30.8	28.8	30.8	125.0
56°	27.6	28.3	106.8	27.4	25.4	27.4	106.8	28.3	27.6	28.3	106.8
56.5°	26.4	27.1	90.6	25.4	24.5	25.4	90.6	27.1	26.4	27.1	90.6
57°	25.4	26.2	77.0	24.5	23.5	24.5	77.0	26.2	25.4	26.2	77.0
57.5°	24.2	25.2	65.1	23.5	22.5	23.5	65.1	25.2	24.2	25.2	65.1
58°	23.2	24.2	55.5	22.8	21.8	22.8	55.5	24.2	23.2	24.2	55.5
58.5°	22.3	23.2	46.7	21.8	20.8	21.8	46.7	23.2	22.3	23.2	46.7
59°	21.6	22.5	39.7	21.1	20.1	21.1	39.7	22.5	21.6	22.5	39.7
59.5°	20.6	21.8	33.7	20.3	19.4	20.3	33.7	21.8	20.6	21.8	33.7
60°	19.9	20.8	28.3	19.6	18.6	19.6	28.3	20.8	19.9	20.8	28.3
60.5°	18.9	20.1	25.2	18.9	17.7	18.9	25.2	20.1	18.9	20.1	25.2
61°	18.2	19.4	22.8	18.4	17.2	18.4	22.8	19.4	18.2	19.4	22.8
61.5°	17.4	18.6	20.8	17.7	16.5	17.7	20.8	18.6	17.4	18.6	20.8
62°	16.7	18.2	19.6	17.0	15.7	17.0	19.6	18.2	16.7	18.2	19.6
62.5°	16.0	17.4	18.6	16.5	15.3	16.5	18.6	17.4	16.0	17.4	18.6
63°	15.3	16.7	17.9	16.0	14.5	16.0	17.9	16.7	15.3	16.7	17.9
63.5°	14.8	16.2	17.2	15.3	14.0	15.3	17.2	16.2	14.8	16.2	17.2
64°	14.0	15.5	16.7	14.8	13.3	14.8	16.7	15.5	14.0	15.5	16.7
64.5°	13.6	15.0	16.0	14.3	12.8	14.3	16.0	15.0	13.6	15.0	16.0
65°	12.8	14.5	15.5	13.8	12.4	13.8	15.5	14.5	12.8	14.5	15.5
65.5°	12.4	13.8	14.8	13.3	11.9	13.3	14.8	13.8	12.4	13.8	14.8
66°	11.9	13.3	14.3	12.8	11.4	12.8	14.3	13.3	11.9	13.3	14.3





TEST NUMBER: P776205

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-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	12.8	11.4	9.9	11.4	12.8	11.9	10.4	11.9	12.8
68°	9.9	11.4	12.4	10.9	9.7	10.9	12.4	11.4	9.9	11.4	12.4
68.5°	9.4	10.9	11.9	10.7	9.2	10.7	11.9	10.9	9.4	10.9	11.9
69°	9.2	10.4	11.4	10.2	8.7	10.2	11.4	10.4	9.2	10.4	11.4
69.5°	8.7	10.2	10.9	9.7	8.5	9.7	10.9	10.2	8.7	10.2	10.9
70°	8.2	9.7	10.4	9.4	8.0	9.4	10.4	9.7	8.2	9.7	10.4
70.5°	8.0	9.2	10.2	9.0	7.7	9.0	10.2	9.2	8.0	9.2	10.2
71°	7.5	9.0	9.7	8.7	7.5	8.7	9.7	9.0	7.5	9.0	9.7
71.5°	7.3	8.5	9.2	8.2	7.0	8.2	9.2	8.5	7.3	8.5	9.2
72°	6.8	8.2	9.0	8.0	6.8	8.0	9.0	8.2	6.8	8.2	9.0
72.5°	6.5	7.7	8.5	7.5	6.5	7.5	8.5	7.7	6.5	7.7	8.5
73°	6.3	7.5	8.0	7.3	6.1	7.3	8.0	7.5	6.3	7.5	8.0
73.5°	5.8	7.0	7.7	7.0	5.8	7.0	7.7	7.0	5.8	7.0	7.7
74°	5.6	6.8	7.3	6.5	5.6	6.5	7.3	6.8	5.6	6.8	7.3
74.5°	5.3	6.5	7.0	6.3	5.3	6.3	7.0	6.5	5.3	6.5	7.0
75°	5.1	6.1	6.5	6.1	5.1	6.1	6.5	6.1	5.1	6.1	6.5
75.5°	4.8	5.8	6.3	5.8	4.8	5.8	6.3	5.8	4.8	5.8	6.3
76°	4.6	5.6	6.1	5.3	4.6	5.3	6.1	5.6	4.6	5.6	6.1
76.5°	4.4	5.1	5.6	5.1	4.4	5.1	5.6	5.1	4.4	5.1	5.6
77°	3.9	4.8	5.3	4.8	4.1	4.8	5.3	4.8	3.9	4.8	5.3
77.5°	3.6	4.6	5.1	4.6	3.9	4.6	5.1	4.6	3.6	4.6	5.1
78°	3.6	4.4	4.6	4.4	3.6	4.4	4.6	4.4	3.6	4.4	4.6
78.5°	3.4	4.1	4.4	4.1	3.4	4.1	4.4	4.1	3.4	4.1	4.4
79°	3.1	3.9	4.1	3.9	3.1	3.9	4.1	3.9	3.1	3.9	4.1
79.5°	2.9	3.4	3.9	3.6	2.9	3.6	3.9	3.4	2.9	3.4	3.9
80°	2.7	3.1	3.6	3.4	2.7	3.4	3.6	3.1	2.7	3.1	3.6
80.5°	2.4	2.9	3.4	3.1	2.4	3.1	3.4	2.9	2.4	2.9	3.4
81°	2.2	2.7	3.1	2.9	2.4	2.9	3.1	2.7	2.2	2.7	3.1
81.5°	2.2	2.4	2.9	2.7	2.2	2.7	2.9	2.4	2.2	2.4	2.9
82°	1.9	2.2	2.7	2.4	2.2	2.4	2.7	2.2	1.9	2.2	2.7
82.5°	1.7	1.9	2.4	2.2	1.9	2.2	2.4	1.9	1.7	1.9	2.4
83°	1.5	1.9	2.2	1.9	1.7	1.9	2.2	1.9	1.5	1.9	2.2
83.5°	1.5	1.7	1.9	1.9	1.5	1.9	1.9	1.7	1.5	1.7	1.9
84°	1.2	1.5	1.7	1.7	1.5	1.7	1.7	1.5	1.2	1.5	1.7
84.5°	1.0	1.2	1.5	1.5	1.2	1.5	1.5	1.2	1.0	1.2	1.5
85°	1.0	1.0	1.2	1.2	1.0	1.2	1.2	1.0	1.0	1.0	1.2
85.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	1.0
86°	0.5	0.7	1.0	1.0	0.7	1.0	1.0	0.7	0.5	0.7	1.0
86.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
87°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5
87.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
88°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
88.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P776205

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776205

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1729.9	1729.9	1729.9	1729.9	1729.9	1729.9
0.5°	1730.9	1730.4	1730.9	1730.2	1729.0	1728.2
1°	1730.4	1730.2	1730.4	1729.7	1728.7	1728.0
1.5°	1729.9	1729.7	1729.9	1729.2	1728.0	1727.3
2°	1729.2	1728.7	1729.2	1728.2	1727.0	1726.3
2.5°	1728.0	1727.8	1728.0	1727.3	1725.8	1725.1
3°	1726.8	1726.5	1726.8	1725.8	1724.6	1723.6
3.5°	1725.3	1725.1	1725.3	1724.4	1722.9	1721.9
4°	1723.6	1723.4	1723.6	1722.4	1721.0	1720.0
4.5°	1721.5	1721.2	1721.5	1720.2	1718.6	1717.8
5°	1719.3	1718.8	1719.3	1718.1	1716.1	1715.2
5.5°	1716.6	1715.9	1716.6	1715.4	1713.5	1712.5
6°	1713.7	1713.0	1713.7	1712.5	1710.3	1709.1
6.5°	1710.3	1709.3	1710.3	1709.3	1707.2	1705.7
7°	1706.4	1705.5	1706.4	1705.7	1703.5	1702.1
7.5°	1702.3	1701.1	1702.3	1701.8	1699.7	1698.0
8°	1698.0	1696.8	1698.0	1697.7	1695.5	1693.6
8.5°	1692.9	1691.7	1692.9	1693.1	1690.9	1689.0
9°	1687.8	1686.3	1687.8	1688.3	1686.1	1684.2
9.5°	1682.2	1680.8	1682.2	1683.2	1681.0	1679.1
10°	1676.7	1675.0	1676.7	1677.6	1675.9	1673.5
10.5°	1670.6	1668.9	1670.6	1671.8	1670.1	1667.7
11°	1664.3	1662.4	1664.3	1665.8	1664.3	1661.6
11.5°	1657.5	1655.6	1657.5	1659.2	1658.0	1655.3
12°	1650.7	1648.8	1650.7	1652.4	1651.5	1648.6
12.5°	1643.5	1641.3	1643.5	1645.4	1644.7	1641.5
13°	1636.0	1633.8	1636.0	1638.1	1637.4	1634.3
13.5°	1628.2	1625.8	1628.2	1630.4	1629.9	1626.8
14°	1620.2	1617.6	1620.2	1622.6	1622.4	1618.8
14.5°	1611.7	1609.1	1611.7	1614.4	1614.2	1610.8
15°	1603.0	1600.4	1603.0	1606.2	1605.9	1602.3
15.5°	1594.1	1591.2	1594.1	1597.2	1597.5	1593.6
16°	1584.9	1582.0	1584.9	1588.3	1588.5	1584.6
16.5°	1575.4	1572.3	1575.4	1578.8	1579.3	1575.4
17°	1565.5	1562.3	1565.5	1569.4	1569.9	1566.0
17.5°	1555.6	1552.2	1555.6	1559.4	1560.2	1556.0
18°	1545.1	1541.5	1545.1	1549.0	1550.0	1545.9
18.5°	1534.7	1530.6	1534.7	1538.9	1539.6	1535.5
19°	1523.8	1519.7	1523.8	1528.2	1529.2	1524.8
19.5°	1512.7	1508.3	1512.7	1517.1	1518.3	1513.7
20°	1501.6	1497.0	1501.6	1505.9	1507.1	1502.5
20.5°	1489.7	1485.1	1489.7	1494.5	1495.7	1491.1
21°	1477.8	1473.0	1477.8	1482.9	1483.9	1479.3



TEST NUMBER: P776205

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1440.8	1436.2	1440.8	1446.1	1447.3	1442.2
23°	1427.9	1423.3	1427.9	1433.5	1434.5	1429.4
23.5°	1415.1	1410.7	1415.1	1420.7	1421.6	1416.1
24°	1402.0	1397.7	1402.0	1407.6	1408.1	1402.7
24.5°	1388.9	1383.9	1388.9	1394.3	1394.5	1388.7
25°	1375.6	1369.8	1375.6	1380.5	1380.7	1374.4
25.5°	1361.6	1355.8	1361.6	1366.7	1366.7	1360.1
26°	1348.0	1341.2	1348.0	1352.6	1352.1	1345.1
26.5°	1333.7	1326.0	1333.7	1338.3	1337.4	1330.1
27°	1319.2	1310.2	1319.2	1323.8	1322.3	1314.3
27.5°	1304.2	1294.5	1304.2	1309.3	1307.1	1298.8
28°	1288.7	1277.8	1288.7	1294.5	1291.3	1282.6
28.5°	1272.9	1260.8	1272.9	1279.2	1275.4	1266.1
29°	1256.9	1243.9	1256.9	1264.2	1259.6	1249.0
29.5°	1240.2	1226.4	1240.2	1249.2	1243.4	1231.8
30°	1223.5	1209.0	1223.5	1233.5	1226.7	1214.6
30.5°	1206.3	1191.1	1206.3	1218.0	1209.7	1196.9
31°	1189.4	1173.1	1189.4	1202.0	1192.5	1178.5
31.5°	1171.9	1154.7	1171.9	1186.2	1175.3	1160.6
32°	1154.5	1136.1	1154.5	1170.2	1157.6	1142.1
32.5°	1136.3	1117.4	1136.3	1154.0	1139.7	1123.5
33°	1118.9	1098.8	1118.9	1137.5	1121.8	1104.6
33.5°	1101.0	1079.7	1101.0	1120.8	1104.1	1085.7
34°	1083.1	1060.3	1083.1	1103.9	1086.0	1066.1
34.5°	1065.1	1040.7	1065.1	1086.9	1067.6	1046.7
35°	1046.7	1021.3	1046.7	1070.0	1049.2	1026.6
35.5°	1028.6	1001.9	1028.6	1052.3	1031.0	1007.3
36°	1010.2	978.9	1010.2	1034.6	1012.3	987.2
36.5°	991.5	953.0	991.5	1017.4	993.2	965.6
37°	972.9	924.4	972.9	999.7	974.6	939.7
37.5°	954.0	894.9	954.0	982.3	955.4	905.8
38°	935.3	863.4	935.3	964.1	936.5	871.6
38.5°	914.7	831.2	914.7	946.7	917.4	833.8
39°	890.8	795.1	890.8	929.3	897.5	794.6
39.5°	863.9	757.1	863.9	912.1	868.7	753.7
40°	834.6	716.9	834.6	894.6	837.7	713.0
40.5°	803.3	677.2	803.3	877.4	802.6	672.3
41°	769.9	638.9	769.9	860.7	766.3	633.8
41.5°	734.8	600.9	734.8	844.5	729.0	595.5
42°	698.0	564.1	698.0	828.3	691.7	558.2
42.5°	661.2	526.8	661.2	812.3	654.9	520.9
43°	624.1	490.7	624.1	796.3	617.6	484.1
43.5°	587.8	454.3	587.8	780.6	581.2	447.1



TEST NUMBER: P776205

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	483.9	353.6	483.9	733.1	475.7	344.9
45.5°	449.5	322.8	449.5	717.4	441.0	312.9
46°	415.6	293.3	415.6	701.4	407.6	283.1
46.5°	382.7	263.3	382.7	684.9	375.1	253.8
47°	350.4	234.2	350.4	661.9	343.2	225.0
47.5°	320.4	208.3	320.4	633.8	312.4	197.4
48°	290.9	185.5	290.9	600.4	282.6	173.9
48.5°	262.3	164.2	262.3	565.0	254.3	152.3
49°	234.2	144.8	234.2	528.0	226.7	133.2
49.5°	209.0	126.7	209.0	489.9	200.0	116.5
50°	184.8	110.0	184.8	451.4	175.1	101.7
50.5°	162.5	94.2	162.5	413.4	152.6	87.9
51°	141.7	79.2	141.7	375.9	132.5	75.3
51.5°	122.8	66.6	122.8	340.8	114.8	65.1
52°	106.3	56.7	106.3	308.5	99.3	55.0
52.5°	91.1	49.9	91.1	277.1	85.5	46.3
53°	77.0	43.4	77.0	247.8	72.9	40.0
53.5°	63.9	36.6	63.9	218.9	62.2	34.1
54°	52.3	30.0	52.3	192.5	52.1	32.7
54.5°	43.4	28.6	43.4	167.4	43.6	31.2
55°	36.3	27.6	36.3	145.1	36.1	30.0
55.5°	31.2	26.4	31.2	125.0	30.8	28.8
56°	27.4	25.4	27.4	106.8	28.3	27.6
56.5°	25.4	24.5	25.4	90.6	27.1	26.4
57°	24.5	23.5	24.5	77.0	26.2	25.4
57.5°	23.5	22.5	23.5	65.1	25.2	24.2
58°	22.8	21.8	22.8	55.5	24.2	23.2
58.5°	21.8	20.8	21.8	46.7	23.2	22.3
59°	21.1	20.1	21.1	39.7	22.5	21.6
59.5°	20.3	19.4	20.3	33.7	21.8	20.6
60°	19.6	18.6	19.6	28.3	20.8	19.9
60.5°	18.9	17.7	18.9	25.2	20.1	18.9
61°	18.4	17.2	18.4	22.8	19.4	18.2
61.5°	17.7	16.5	17.7	20.8	18.6	17.4
62°	17.0	15.7	17.0	19.6	18.2	16.7
62.5°	16.5	15.3	16.5	18.6	17.4	16.0
63°	16.0	14.5	16.0	17.9	16.7	15.3
63.5°	15.3	14.0	15.3	17.2	16.2	14.8
64°	14.8	13.3	14.8	16.7	15.5	14.0
64.5°	14.3	12.8	14.3	16.0	15.0	13.6
65°	13.8	12.4	13.8	15.5	14.5	12.8
65.5°	13.3	11.9	13.3	14.8	13.8	12.4
66°	12.8	11.4	12.8	14.3	13.3	11.9



TEST NUMBER: P776205

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	11.4	9.9	11.4	12.8	11.9	10.4
68°	10.9	9.7	10.9	12.4	11.4	9.9
68.5°	10.7	9.2	10.7	11.9	10.9	9.4
69°	10.2	8.7	10.2	11.4	10.4	9.2
69.5°	9.7	8.5	9.7	10.9	10.2	8.7
70°	9.4	8.0	9.4	10.4	9.7	8.2
70.5°	9.0	7.7	9.0	10.2	9.2	8.0
71°	8.7	7.5	8.7	9.7	9.0	7.5
71.5°	8.2	7.0	8.2	9.2	8.5	7.3
72°	8.0	6.8	8.0	9.0	8.2	6.8
72.5°	7.5	6.5	7.5	8.5	7.7	6.5
73°	7.3	6.1	7.3	8.0	7.5	6.3
73.5°	7.0	5.8	7.0	7.7	7.0	5.8
74°	6.5	5.6	6.5	7.3	6.8	5.6
74.5°	6.3	5.3	6.3	7.0	6.5	5.3
75°	6.1	5.1	6.1	6.5	6.1	5.1
75.5°	5.8	4.8	5.8	6.3	5.8	4.8
76°	5.3	4.6	5.3	6.1	5.6	4.6
76.5°	5.1	4.4	5.1	5.6	5.1	4.4
77°	4.8	4.1	4.8	5.3	4.8	3.9
77.5°	4.6	3.9	4.6	5.1	4.6	3.6
78°	4.4	3.6	4.4	4.6	4.4	3.6
78.5°	4.1	3.4	4.1	4.4	4.1	3.4
79°	3.9	3.1	3.9	4.1	3.9	3.1
79.5°	3.6	2.9	3.6	3.9	3.4	2.9
80°	3.4	2.9	3.4	3.6	3.1	2.7
80.5°	3.1	2.7	3.1	3.4	2.9	2.4
81°	2.9	2.4	2.9	3.1	2.7	2.2
81.5°	2.7	2.2	2.7	2.9	2.4	2.2
82°	2.4	2.2	2.4	2.7	2.2	1.9
82.5°	2.2	1.9	2.2	2.4	1.9	1.7
83°	1.9	1.7	1.9	2.2	1.9	1.5
83.5°	1.9	1.5	1.9	1.9	1.7	1.5
84°	1.7	1.5	1.7	1.7	1.5	1.2
84.5°	1.5	1.2	1.5	1.5	1.2	1.0
85°	1.2	1.0	1.2	1.2	1.0	1.0
85.5°	1.0	1.0	1.0	1.0	0.7	0.7
86°	1.0	0.7	1.0	1.0	0.7	0.5
86.5°	0.7	0.7	0.7	0.7	0.5	0.5
87°	0.5	0.5	0.5	0.5	0.5	0.2
87.5°	0.5	0.5	0.5	0.5	0.2	0.2
88°	0.2	0.2	0.2	0.2	0.2	0.2
88.5°	0.2	0.2	0.2	0.2	0.0	0.0



TEST NUMBER: P776205

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-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



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

Scaled Data Report





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

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

Scaled Data Report



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	1467.4	1472.0	1470.8	1465.7	1461.1	1465.7	1470.8	1472.0	1467.4	1472.0	1470.8
22°	1454.6	1459.9	1458.4	1453.4	1448.5	1453.4	1458.4	1459.9	1454.6	1459.9	1458.4



44°	411.5	545.9	764.6	552.9	419.0	552.9	764.6	545.9	411.5	545.9	764.6
44.5°	378.1	511.3	749.1	518.3	384.3	518.3	749.1	511.3	378.1	511.3	749.1



66.5°	11.4	12.8	13.8	12.4	10.9	12.4	13.8	12.8	11.4	12.8	13.8
67°	10.9	12.4	13.3	11.9	10.4	11.9	13.3	12.4	10.9	12.4	13.3



89°	0.0	0.0	0.0	0.0	0.2	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	0.0	0.0	0.0	0.0	0.0



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21.5°	1465.7	1461.1	1465.7	1470.8	1472.0	1467.4
22°	1453.4	1448.5	1453.4	1458.4	1459.9	1454.6



44°	552.9	419.0	552.9	764.6	545.9	411.5
44.5°	518.3	384.3	518.3	749.1	511.3	378.1

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66.5°	12.4	10.9	12.4	13.8	12.8	11.4
67°	11.9	10.4	11.9	13.3	12.4	10.9

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Peachtree City, GA 30269

Scaled Data Report



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

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

Scaled Data Report



(END OF REPORT)