

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: P776005

Luminaire Tested: HCDJBS1525CSD-HCD4TSQH-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776005  
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-HCD4TSQH-2500lm-2700K  
Description: 4 INCH SQUARE MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

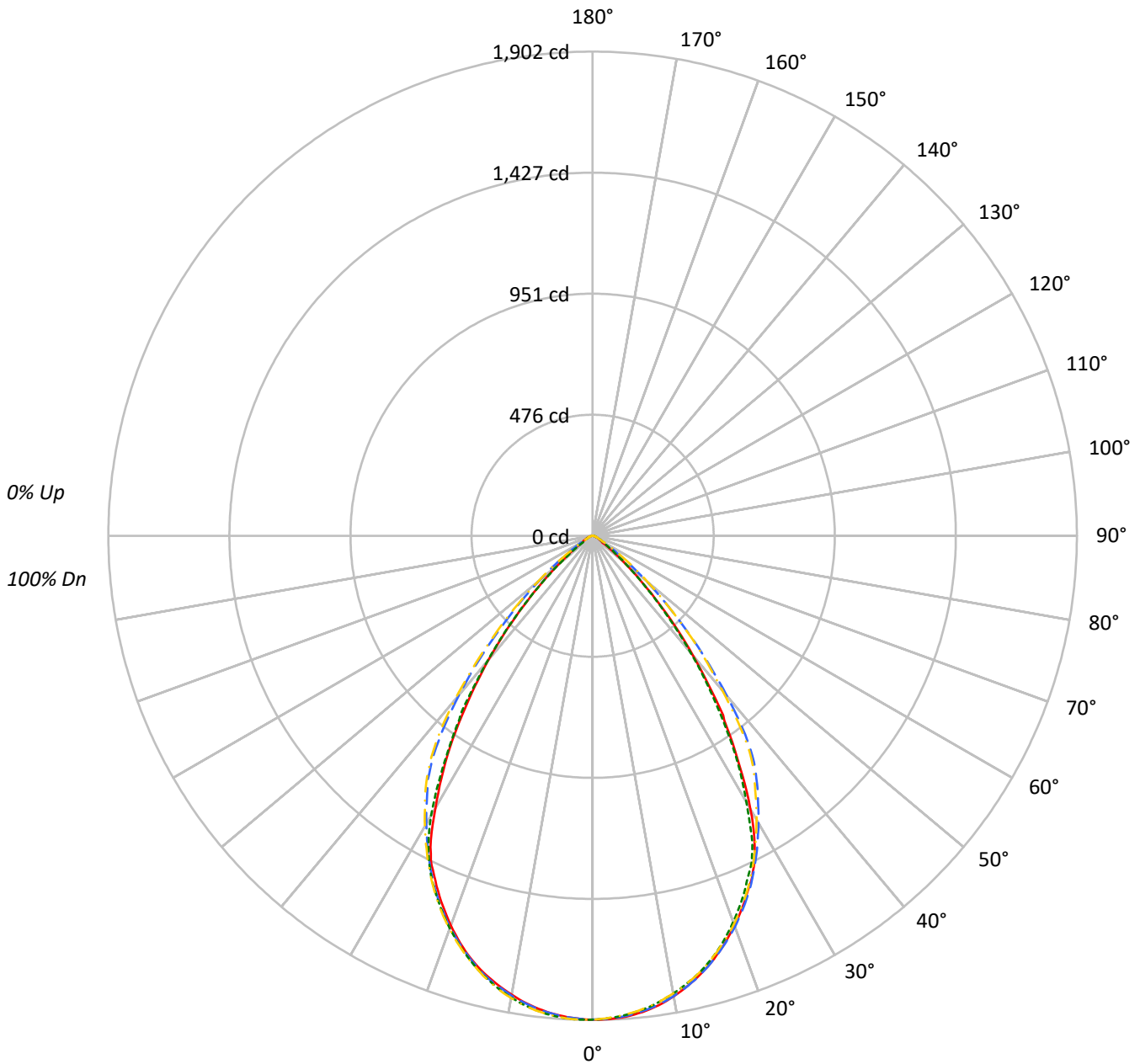
Lumens per Lamp: N/A  
Luminaire Lumens: 2432.8 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.09  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-2500lm-2700K

### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84			84																
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64			64																
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58			58																
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54			54																
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49			49																
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46			46																
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43			43																

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

	0°	90°	180°	270°
0°	187840	187840	187840	187840
5°	187327	186513	186751	187496
10°	184344	183220	183732	184876
15°	179127	178155	179096	179915
20°	171390	169780	171284	172610
25°	161584	158890	160580	162958
30°	141548	137873	140966	144675
35°	111071	108706	113231	114752
40°	79030	77340	82063	82876
45°	48309	47093	51217	51524
50°	23727	24465	26403	25541
55°	8892	12270	12942	9926
60°	6464	8184	8283	6563
65°	5099	6455	6572	5262
70°	4046	5173	5260	4277
75°	3132	4086	4086	3513
80°	2049	3188	3017	2732
85°	794	2495	1361	1928

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 315°  
 Vertical Angle: 45°  
 Luminance: 74099 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.3	7.3
10°-20°	491.5	20.2
20°-30°	676.4	27.8
30°-40°	621.4	25.5
40°-50°	336.1	13.8
50°-60°	90.6	3.7
60°-70°	25.8	1.1
70°-80°	10.8	0.4
80°-90°	2.1	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°	1346.1	55.3
0°-40°	1967.5	80.9
0°-60°	2394.1	98.4
0°-90°	2432.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1900	1900	1900	1900	1900	
5°	1888	1880	1882	1890	1888	179
15°	1750	1741	1750	1758	1750	491
25°	1482	1457	1472	1494	1482	672
35°	920	901	938	951	920	572
45°	346	337	366	369	346	273
55°	52	71	75	58	52	60
65°	22	28	28	22	22	22
75°	8	11	11	9	8	9
85°	1	2	1	2	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4
0.5°	1901.3	1900.6	1899.9	1899.2	1900.4	1899.2	1899.6	1899.9	1900.6	1900.6	1899.6
1°	1901.3	1900.1	1899.2	1898.7	1899.4	1898.2	1898.4	1898.7	1899.6	1900.1	1899.2
1.5°	1900.6	1899.2	1898.9	1897.5	1897.7	1896.3	1897.0	1897.2	1898.7	1898.9	1898.0
2°	1900.1	1898.4	1897.5	1896.3	1895.8	1894.8	1895.0	1895.5	1896.7	1897.7	1896.7
2.5°	1898.9	1897.2	1896.3	1894.6	1893.8	1892.6	1893.1	1893.4	1895.3	1896.0	1895.3
3°	1897.5	1895.0	1894.6	1892.9	1891.9	1890.2	1890.7	1891.2	1893.4	1894.6	1893.4
3.5°	1895.5	1893.1	1892.4	1890.7	1889.5	1887.5	1887.8	1888.5	1890.9	1892.4	1891.4
4°	1893.4	1890.7	1890.7	1888.3	1886.6	1884.9	1884.9	1885.8	1888.0	1890.2	1889.0
4.5°	1890.9	1887.8	1887.5	1885.6	1883.2	1881.2	1881.7	1882.7	1885.4	1887.8	1886.1
5°	1888.0	1884.6	1884.6	1882.2	1879.8	1877.9	1878.1	1879.3	1882.2	1884.4	1882.9
5.5°	1884.4	1881.2	1881.5	1878.8	1875.9	1873.7	1874.2	1875.4	1878.6	1881.5	1879.5
6°	1881.0	1877.1	1877.6	1874.9	1871.8	1869.4	1870.1	1871.6	1874.5	1877.6	1875.7
6.5°	1876.9	1873.0	1873.7	1871.1	1867.2	1864.8	1865.5	1867.0	1870.3	1874.0	1871.8
7°	1872.3	1868.2	1869.1	1866.2	1862.4	1859.7	1860.9	1862.6	1865.7	1869.6	1867.4
7.5°	1867.4	1863.3	1864.5	1861.9	1857.0	1854.6	1855.6	1857.5	1860.7	1865.0	1862.6
8°	1862.4	1858.0	1859.9	1856.1	1851.5	1848.5	1850.0	1851.7	1855.6	1859.9	1857.5
8.5°	1856.5	1852.4	1854.4	1850.2	1845.2	1843.0	1844.4	1846.1	1849.8	1854.4	1852.2
9°	1850.5	1846.6	1848.5	1844.4	1839.1	1836.4	1838.1	1840.1	1843.7	1848.5	1846.6
9.5°	1843.9	1839.6	1842.7	1838.4	1832.3	1829.9	1831.6	1833.5	1837.2	1842.7	1840.3
10°	1836.7	1832.8	1836.0	1831.4	1825.5	1823.1	1825.1	1827.0	1830.6	1836.4	1834.0
10.5°	1829.7	1825.3	1829.2	1824.3	1818.5	1816.1	1818.3	1820.0	1823.6	1829.9	1827.0
11°	1822.1	1817.8	1822.6	1817.1	1811.3	1808.8	1811.0	1812.7	1816.6	1822.9	1820.0
11.5°	1814.4	1810.0	1814.4	1809.6	1803.3	1800.8	1803.0	1805.9	1809.6	1815.6	1812.5
12°	1805.9	1801.6	1806.7	1801.3	1795.3	1793.1	1795.3	1797.9	1801.6	1808.6	1807.4
12.5°	1797.7	1792.8	1797.9	1793.1	1787.3	1785.1	1787.3	1790.2	1793.6	1800.4	1799.1
13°	1789.0	1784.1	1789.7	1784.4	1779.5	1777.1	1779.3	1782.2	1785.6	1792.4	1790.9
13.5°	1780.0	1774.7	1780.7	1775.4	1771.3	1769.1	1771.3	1774.4	1777.6	1784.4	1782.7
14°	1770.6	1765.5	1771.1	1766.2	1761.6	1759.2	1762.1	1764.8	1769.6	1776.4	1774.7
14.5°	1760.4	1755.1	1761.1	1756.8	1751.4	1749.3	1752.2	1754.8	1760.2	1768.4	1763.3
15°	1750.5	1744.9	1751.4	1747.1	1741.0	1739.3	1741.7	1745.1	1750.2	1758.7	1753.4
15.5°	1739.8	1734.5	1741.3	1736.4	1730.4	1728.4	1731.1	1734.5	1739.8	1748.8	1743.0
16°	1729.2	1723.6	1730.1	1725.5	1719.5	1717.8	1720.2	1724.1	1729.2	1738.4	1732.5
16.5°	1717.5	1712.9	1719.0	1714.6	1707.8	1706.1	1709.3	1712.9	1718.5	1727.5	1721.6
17°	1706.1	1700.8	1708.1	1703.5	1696.0	1694.8	1697.9	1701.8	1707.4	1716.6	1710.3
17.5°	1694.3	1689.2	1696.2	1691.6	1683.6	1682.9	1686.0	1689.7	1695.0	1705.4	1698.6
18°	1681.9	1676.8	1684.6	1679.3	1670.1	1670.3	1674.2	1677.8	1682.2	1693.8	1687.0
18.5°	1668.6	1664.0	1672.0	1667.2	1656.5	1657.2	1661.6	1665.2	1669.3	1681.4	1674.9
19°	1656.0	1650.9	1659.9	1654.3	1642.5	1643.7	1649.0	1652.1	1656.0	1668.6	1662.3
19.5°	1642.7	1637.9	1647.1	1640.5	1628.6	1629.9	1636.2	1638.8	1642.5	1655.3	1649.5
20°	1629.4	1624.3	1634.2	1626.5	1614.1	1615.3	1623.1	1625.0	1628.4	1641.7	1636.6
20.5°	1615.3	1610.5	1620.9	1612.2	1599.6	1600.8	1609.3	1610.7	1614.1	1627.9	1622.8
21°	1601.0	1596.0	1606.6	1597.4	1584.6	1586.0	1595.5	1596.2	1599.6	1613.4	1609.3



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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°	1557.4	1551.6	1563.7	1551.4	1539.0	1540.3	1552.1	1550.7	1554.3	1568.6	1566.7
23°	1541.2	1536.4	1548.7	1535.2	1522.8	1524.3	1537.3	1534.4	1539.0	1553.1	1551.6
23.5°	1526.2	1521.1	1533.0	1519.9	1505.9	1508.8	1521.6	1518.7	1522.8	1537.3	1535.9
24°	1510.7	1504.9	1517.7	1503.4	1488.4	1492.3	1505.6	1502.7	1506.3	1521.6	1519.9
24.5°	1496.7	1488.9	1501.5	1487.5	1472.2	1475.4	1488.7	1486.5	1489.2	1505.4	1503.4
25°	1481.6	1472.0	1484.8	1469.8	1456.9	1457.9	1472.0	1469.8	1472.4	1488.7	1487.0
25.5°	1462.0	1456.2	1467.6	1452.3	1441.7	1440.2	1454.5	1452.6	1456.7	1471.2	1470.0
26°	1444.4	1441.0	1449.7	1434.2	1426.4	1423.0	1437.1	1435.1	1441.9	1453.8	1453.1
26.5°	1425.2	1425.9	1432.5	1417.0	1404.2	1406.8	1418.9	1417.2	1423.8	1436.1	1435.1
27°	1402.5	1406.1	1414.6	1400.3	1380.7	1391.3	1400.8	1400.0	1400.0	1419.9	1417.2
27.5°	1378.7	1387.0	1396.4	1384.8	1358.6	1375.3	1382.4	1383.3	1379.2	1404.6	1399.1
28°	1353.8	1366.6	1377.5	1369.0	1328.3	1356.9	1363.7	1367.6	1353.5	1387.9	1380.7
28.5°	1327.6	1345.3	1359.3	1351.6	1297.6	1332.0	1345.1	1349.4	1324.2	1364.2	1362.5
29°	1300.5	1322.1	1340.2	1327.6	1268.0	1311.4	1326.4	1326.2	1294.7	1342.6	1343.6
29.5°	1270.7	1297.8	1322.1	1305.3	1237.8	1286.0	1306.8	1304.9	1264.4	1320.8	1325.2
30°	1240.2	1271.4	1303.4	1281.6	1208.0	1255.9	1287.9	1280.9	1235.1	1292.7	1306.3
30.5°	1208.0	1246.0	1284.3	1252.5	1178.9	1225.9	1268.3	1252.1	1205.1	1262.7	1287.4
31°	1175.5	1216.7	1264.9	1222.3	1150.1	1196.8	1248.4	1223.7	1176.7	1233.7	1268.0
31.5°	1142.6	1188.1	1245.5	1192.7	1121.0	1167.1	1228.3	1193.9	1148.4	1203.9	1248.2
32°	1108.9	1156.4	1225.9	1163.4	1092.7	1138.2	1209.0	1164.9	1119.8	1175.0	1229.1
32.5°	1076.5	1126.1	1207.7	1133.9	1062.7	1110.1	1189.1	1135.8	1090.8	1146.2	1209.4
33°	1044.8	1093.9	1190.1	1105.3	1032.4	1082.5	1170.4	1108.2	1062.0	1117.9	1191.0
33.5°	1013.3	1061.2	1171.2	1077.0	999.7	1054.2	1152.3	1079.6	1032.6	1089.3	1174.8
34°	982.5	1029.7	1149.6	1048.9	967.7	1026.1	1134.6	1052.5	1002.1	1061.2	1158.1
34.5°	951.5	998.0	1131.0	1020.3	933.8	996.8	1116.0	1024.4	970.2	1032.9	1133.6
35°	920.5	966.3	1111.8	991.5	900.9	969.0	1095.4	997.5	938.4	1004.3	1108.9
35.5°	890.2	936.3	1091.3	961.9	867.7	938.0	1072.6	969.0	906.7	974.8	1087.6
36°	871.6	906.5	1067.0	932.1	836.5	907.2	1049.6	941.1	874.7	945.2	1061.2
36.5°	837.7	877.4	1039.2	901.4	804.8	876.0	1020.3	911.6	843.0	914.9	1031.9
37°	803.1	848.1	1013.0	870.1	774.5	844.7	991.0	882.0	810.8	884.0	1001.9
37.5°	768.4	818.6	984.9	839.9	744.7	812.8	959.5	852.2	780.5	852.5	971.6
38°	733.8	789.3	952.2	809.6	715.6	782.2	925.4	822.2	751.0	822.2	940.9
38.5°	702.8	760.0	918.3	779.6	686.3	752.7	891.5	791.7	721.7	791.0	910.1
39°	672.0	730.4	885.4	749.3	658.2	723.9	857.6	761.9	692.4	761.4	878.6
39.5°	642.0	700.4	852.7	719.0	628.7	696.7	825.1	732.6	663.8	732.1	847.4
40°	612.5	670.8	820.0	690.2	599.4	668.2	793.1	704.5	636.0	703.3	815.9
40.5°	584.1	640.8	787.3	662.4	569.8	640.8	762.4	675.7	606.9	674.7	784.9
41°	555.8	612.2	754.4	635.0	541.5	614.2	732.3	648.6	578.1	647.1	752.9
41.5°	527.7	584.1	721.7	607.9	512.4	587.8	702.8	621.9	548.8	620.2	721.9
42°	500.6	557.0	690.5	580.3	485.1	559.9	674.0	595.3	520.7	592.9	690.2
42.5°	473.5	529.9	659.9	553.6	458.4	532.6	646.1	569.1	493.3	566.0	659.2
43°	447.1	503.7	629.7	526.7	432.5	505.9	618.5	542.5	466.7	538.6	627.7
43.5°	419.9	478.3	600.1	500.1	407.1	480.0	590.9	516.3	440.5	511.7	597.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	345.6	403.7	513.4	422.8	336.9	404.2	508.6	439.8	366.4	434.2	510.0
45.5°	322.3	379.3	485.1	398.9	314.3	381.4	482.2	414.9	343.2	409.8	482.9
46°	300.1	356.0	458.0	375.1	292.3	358.4	455.8	391.4	320.6	386.0	455.8
46.5°	278.3	333.2	431.6	352.9	271.7	336.4	430.6	368.1	298.8	363.3	429.9
47°	257.7	311.4	405.6	331.1	252.1	314.8	406.4	345.8	277.3	340.7	405.2
47.5°	238.5	290.1	380.7	309.5	233.7	294.0	382.9	323.6	257.2	318.5	380.9
48°	219.9	269.8	357.0	288.4	218.2	273.7	361.1	302.5	238.1	297.9	357.5
48.5°	202.5	250.7	334.2	268.3	202.7	254.3	339.3	282.4	221.4	277.3	334.7
49°	185.8	232.2	312.4	249.7	187.2	235.9	318.7	262.3	204.9	257.7	313.9
49.5°	169.5	214.6	291.8	231.3	171.9	219.9	299.1	243.4	188.2	238.8	291.8
50°	154.3	197.6	271.7	213.4	159.1	203.9	280.2	227.2	171.7	222.1	271.5
50.5°	140.2	181.1	251.9	196.2	147.2	187.9	262.3	210.9	158.4	205.1	252.6
51°	127.1	165.9	233.5	180.7	137.1	171.9	244.1	194.5	146.0	188.2	234.9
51.5°	115.0	151.6	215.8	166.1	127.4	158.9	228.4	178.2	134.9	171.5	218.4
52°	103.7	138.0	199.3	152.6	118.2	146.8	213.1	162.0	124.5	157.2	202.2
52.5°	93.2	125.0	183.1	140.5	109.5	135.6	197.6	148.5	115.3	144.3	186.0
53°	83.6	112.9	168.3	129.3	101.2	125.4	182.1	136.1	106.3	132.7	169.8
53.5°	75.6	102.0	154.3	119.4	93.7	116.2	166.6	125.0	98.1	122.1	155.0
54°	67.6	91.8	141.2	109.9	86.0	107.8	153.5	114.8	90.1	112.4	141.9
54.5°	59.6	82.1	128.6	101.2	78.5	99.5	141.2	105.3	82.3	103.2	129.8
55°	51.6	73.1	117.7	93.5	71.2	91.8	129.6	96.9	75.1	94.9	118.2
55.5°	46.3	66.6	107.0	85.7	64.7	84.5	118.7	88.9	67.8	87.2	107.5
56°	44.3	60.3	97.4	79.4	58.8	77.3	108.5	81.1	61.5	79.7	97.6
56.5°	42.6	53.8	88.4	72.9	54.7	70.2	99.1	74.1	56.4	72.7	88.6
57°	41.2	47.5	81.9	66.4	52.3	63.5	90.3	67.3	52.8	65.6	80.2
57.5°	39.5	40.9	75.1	59.8	50.4	57.4	82.3	60.8	50.9	59.1	72.7
58°	38.0	39.5	68.5	54.2	48.4	51.8	74.8	54.5	48.9	53.5	65.9
58.5°	36.6	38.0	62.0	49.4	46.7	47.7	68.3	49.4	47.0	49.2	59.6
59°	35.1	36.6	55.5	45.8	44.8	45.5	62.0	45.5	45.3	46.3	54.2
59.5°	33.9	35.1	50.6	43.8	43.1	43.6	56.7	43.3	43.6	44.6	49.6
60°	32.7	33.9	46.5	41.9	41.4	41.9	51.8	41.7	41.9	42.9	45.5
60.5°	31.2	32.7	42.6	40.4	39.7	40.4	47.5	40.0	40.2	41.2	41.7
61°	30.0	31.2	39.5	38.7	38.3	38.7	43.6	38.3	38.7	39.5	38.7
61.5°	29.1	30.3	36.6	37.3	36.8	37.3	40.2	36.8	37.3	38.0	35.8
62°	27.9	29.1	34.1	35.6	35.4	35.8	37.3	35.4	35.6	36.6	33.4
62.5°	26.6	27.9	31.7	34.4	33.9	34.4	34.9	33.9	34.4	35.1	31.2
63°	25.7	26.9	29.8	32.9	32.5	32.9	32.5	32.7	32.9	33.7	29.5
63.5°	24.7	25.7	28.1	31.5	31.2	31.7	30.5	31.2	31.7	32.5	27.9
64°	23.7	24.7	26.9	30.3	30.0	30.5	28.6	30.0	30.3	31.0	26.6
64.5°	22.8	23.7	25.9	29.1	28.8	29.3	27.1	28.8	29.1	29.8	25.4
65°	21.8	23.0	24.7	27.9	27.6	28.1	25.9	27.6	28.1	28.6	24.5
65.5°	21.1	22.0	23.7	26.9	26.4	26.9	24.9	26.4	26.9	27.4	23.5
66°	20.1	21.1	23.0	25.7	25.2	25.9	24.0	25.4	25.7	26.4	22.5





TEST NUMBER: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	17.7	18.6	20.3	22.5	22.3	22.8	21.3	22.3	22.5	23.2	19.9
68°	17.0	17.9	19.4	21.6	21.3	21.8	20.3	21.3	21.6	22.3	19.1
68.5°	16.2	17.0	18.6	20.8	20.3	20.8	19.6	20.3	20.6	21.3	18.4
69°	15.5	16.2	17.9	19.9	19.6	20.1	18.6	19.6	19.9	20.3	17.7
69.5°	14.8	15.5	17.2	19.1	18.6	19.1	17.9	18.6	18.9	19.4	17.0
70°	14.0	14.8	16.5	18.2	17.9	18.4	17.2	17.9	18.2	18.6	16.0
70.5°	13.3	14.3	15.7	17.4	17.0	17.7	16.2	17.0	17.2	17.7	15.5
71°	12.8	13.6	15.0	16.7	16.2	16.7	15.5	16.2	16.5	17.0	14.8
71.5°	12.1	12.8	14.3	15.7	15.5	16.0	14.8	15.5	15.5	16.0	14.0
72°	11.6	12.4	13.6	15.3	14.8	15.3	14.3	14.8	14.8	15.3	13.3
72.5°	10.9	11.6	13.1	14.5	14.0	14.5	13.6	14.0	14.0	14.5	12.8
73°	10.4	11.1	12.4	13.8	13.3	13.8	12.8	13.3	13.3	13.8	12.1
73.5°	9.7	10.4	11.6	13.1	12.6	13.1	12.4	12.6	12.6	13.1	11.6
74°	9.2	9.9	11.1	12.4	12.1	12.6	11.6	11.9	12.1	12.6	11.1
74.5°	8.7	9.4	10.7	11.9	11.4	11.9	11.1	11.4	11.4	11.9	10.4
75°	8.2	8.7	9.9	11.1	10.7	11.4	10.4	10.7	10.7	11.1	9.9
75.5°	7.7	8.2	9.4	10.7	10.2	10.7	9.9	10.2	10.2	10.7	9.4
76°	7.0	7.7	9.0	10.2	9.7	10.2	9.4	9.4	9.4	9.9	9.0
76.5°	6.5	7.3	8.5	9.4	9.0	9.7	9.0	9.0	9.0	9.4	8.2
77°	6.3	6.8	8.0	9.0	8.5	9.0	8.5	8.2	8.2	8.7	7.7
77.5°	5.8	6.3	7.5	8.5	8.0	8.5	8.0	7.7	7.7	8.2	7.3
78°	5.3	5.8	7.0	8.0	7.5	8.0	7.5	7.3	7.3	7.7	6.8
78.5°	4.8	5.3	6.5	7.5	7.0	7.5	7.0	6.8	6.8	7.0	6.5
79°	4.6	4.8	6.1	7.0	6.5	7.0	6.5	6.3	6.3	6.5	6.1
79.5°	4.1	4.4	5.8	6.5	6.1	6.5	6.1	5.8	5.8	6.1	5.6
80°	3.6	4.1	5.3	6.1	5.6	6.1	5.8	5.3	5.3	5.6	5.1
80.5°	3.4	3.6	4.8	5.6	5.3	5.6	5.3	4.8	4.8	5.1	4.8
81°	2.9	3.1	4.6	5.1	4.8	5.1	4.8	4.4	4.4	4.6	4.4
81.5°	2.7	2.9	4.1	4.6	4.4	4.8	4.6	3.9	3.9	4.1	4.1
82°	2.4	2.4	3.9	4.4	4.1	4.4	4.1	3.6	3.6	3.6	3.6
82.5°	1.9	2.2	3.4	3.9	3.6	4.1	3.9	3.1	3.1	3.1	3.4
83°	1.7	1.9	3.1	3.6	3.4	3.6	3.4	2.9	2.7	2.9	2.9
83.5°	1.2	1.5	2.7	3.1	3.1	3.4	3.1	2.4	2.4	2.4	2.7
84°	1.0	1.2	2.4	2.9	2.7	2.9	2.9	2.2	1.9	2.2	2.4
84.5°	1.0	1.0	2.2	2.4	2.4	2.7	2.4	1.9	1.7	1.7	2.2
85°	0.7	1.0	1.9	2.2	2.2	2.4	2.2	1.5	1.2	1.5	1.9
85.5°	0.5	0.7	1.7	1.9	1.7	1.9	1.9	1.2	1.0	1.2	1.5
86°	0.5	0.5	1.2	1.5	1.5	1.7	1.7	1.0	1.0	1.0	1.2
86.5°	0.5	0.5	1.0	1.2	1.2	1.5	1.5	1.0	0.7	0.7	1.0
87°	0.2	0.2	0.7	1.0	1.0	1.0	1.2	0.7	0.7	0.7	0.7
87.5°	0.0	0.2	0.5	0.7	0.7	0.7	1.0	0.5	0.5	0.5	0.5
88°	0.0	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.2
88.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2



TEST NUMBER: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-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: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4
0.5°	1899.9	1901.6	1900.6	1901.1	1900.6	1901.3
1°	1899.6	1901.3	1900.6	1901.1	1900.6	1901.3
1.5°	1898.9	1901.3	1900.6	1900.9	1900.6	1900.6
2°	1898.0	1900.6	1900.4	1900.4	1900.1	1900.1
2.5°	1896.7	1900.1	1899.4	1900.1	1899.2	1898.9
3°	1895.0	1898.9	1898.2	1898.7	1898.0	1897.5
3.5°	1893.1	1897.0	1896.7	1897.2	1896.3	1895.5
4°	1890.7	1894.8	1894.8	1895.3	1894.6	1893.4
4.5°	1888.0	1892.4	1892.6	1893.1	1892.1	1890.9
5°	1885.1	1889.7	1890.0	1890.4	1889.5	1888.0
5.5°	1881.7	1886.8	1887.1	1887.3	1886.3	1884.4
6°	1878.1	1883.2	1883.7	1884.1	1882.9	1881.0
6.5°	1874.0	1879.3	1880.0	1880.3	1879.1	1876.9
7°	1869.6	1875.2	1875.9	1876.4	1874.9	1872.3
7.5°	1864.8	1870.8	1871.8	1871.8	1870.3	1867.4
8°	1859.4	1865.5	1866.7	1867.2	1865.3	1862.4
8.5°	1854.1	1860.4	1861.6	1861.9	1859.9	1856.5
9°	1848.5	1854.4	1856.3	1856.5	1853.9	1850.5
9.5°	1842.3	1848.1	1850.0	1850.5	1848.3	1843.9
10°	1835.7	1842.0	1843.5	1844.4	1841.5	1836.7
10.5°	1828.7	1835.2	1836.9	1837.6	1834.7	1829.7
11°	1821.9	1827.7	1829.7	1830.4	1827.5	1822.1
11.5°	1814.4	1820.5	1822.1	1823.1	1820.0	1814.4
12°	1806.7	1812.2	1814.4	1815.4	1811.5	1805.9
12.5°	1797.9	1804.2	1806.2	1806.9	1803.5	1797.7
13°	1789.5	1795.8	1797.9	1798.9	1795.0	1789.0
13.5°	1781.0	1787.0	1789.2	1789.7	1785.8	1780.0
14°	1772.3	1778.1	1780.3	1780.0	1776.6	1770.6
14.5°	1765.5	1768.4	1770.8	1770.1	1766.9	1760.4
15°	1755.6	1758.2	1761.1	1760.2	1757.0	1750.5
15.5°	1745.1	1748.3	1750.2	1750.0	1746.6	1739.8
16°	1734.5	1737.6	1740.1	1739.8	1735.9	1729.2
16.5°	1723.6	1726.7	1729.4	1728.7	1725.3	1717.5
17°	1712.2	1715.1	1718.3	1717.3	1714.1	1706.1
17.5°	1700.6	1703.7	1706.6	1705.9	1702.3	1694.3
18°	1688.5	1691.4	1694.8	1694.0	1690.4	1681.9
18.5°	1676.1	1679.3	1682.7	1681.4	1677.6	1668.6
19°	1663.8	1666.7	1670.1	1669.3	1664.7	1656.0
19.5°	1650.4	1654.1	1657.0	1656.5	1651.9	1642.7
20°	1637.1	1641.0	1644.1	1643.7	1638.6	1629.4
20.5°	1623.6	1627.2	1630.6	1630.1	1624.8	1615.3
21°	1609.5	1613.4	1616.3	1616.5	1610.2	1601.0



TEST NUMBER: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1565.9	1569.8	1572.9	1573.7	1566.4	1557.4
23°	1551.2	1554.8	1557.7	1558.7	1551.2	1541.2
23.5°	1535.7	1539.3	1542.4	1543.2	1535.7	1526.2
24°	1519.4	1523.3	1526.7	1527.4	1520.2	1510.7
24.5°	1503.7	1508.0	1510.7	1511.2	1504.2	1496.7
25°	1487.7	1494.2	1494.0	1495.0	1487.7	1481.6
25.5°	1470.7	1475.4	1477.3	1478.3	1470.7	1462.0
26°	1453.6	1457.2	1461.5	1460.8	1454.8	1444.4
26.5°	1438.8	1438.8	1446.8	1443.9	1439.8	1425.2
27°	1422.3	1417.2	1426.9	1426.7	1424.5	1402.5
27.5°	1401.7	1395.9	1408.5	1408.8	1404.9	1378.7
28°	1383.6	1372.9	1389.4	1390.3	1385.3	1353.8
28.5°	1363.5	1348.7	1368.3	1372.7	1366.1	1327.6
29°	1342.6	1322.5	1347.0	1354.7	1344.6	1300.5
29.5°	1319.9	1296.1	1323.7	1336.3	1322.1	1270.7
30°	1296.9	1267.6	1299.8	1317.9	1298.1	1240.2
30.5°	1272.2	1237.3	1275.1	1299.3	1272.2	1208.0
31°	1246.7	1205.1	1247.9	1280.4	1245.8	1175.5
31.5°	1219.9	1174.6	1220.1	1261.3	1217.7	1142.6
32°	1192.5	1141.6	1191.5	1242.4	1189.1	1108.9
32.5°	1162.9	1108.2	1161.2	1225.4	1159.1	1076.5
33°	1132.4	1076.5	1129.5	1206.8	1127.6	1044.8
33.5°	1101.2	1044.5	1097.8	1186.9	1095.9	1013.3
34°	1070.2	1013.3	1066.1	1169.2	1064.1	982.5
34.5°	1038.0	981.3	1034.8	1148.4	1032.4	951.5
35°	1007.0	951.0	1003.1	1124.9	1000.7	920.5
35.5°	976.5	920.8	971.9	1101.9	970.4	890.2
36°	946.2	890.7	942.1	1078.7	940.6	871.6
36.5°	915.7	873.3	912.5	1052.7	910.8	837.7
37°	886.4	839.1	883.0	1025.9	881.8	803.1
37.5°	857.3	804.0	853.4	998.0	852.5	768.4
38°	828.5	768.9	823.9	968.7	823.4	733.8
38.5°	799.2	733.8	794.3	938.9	794.1	702.8
39°	769.9	703.5	764.8	907.4	764.8	672.0
39.5°	740.6	672.5	735.3	876.4	735.7	642.0
40°	711.0	642.3	705.0	843.3	705.2	612.5
40.5°	681.5	613.0	674.7	809.8	675.7	584.1
41°	651.9	584.9	645.4	776.7	646.9	555.8
41.5°	623.4	555.8	616.3	743.5	618.3	527.7
42°	595.5	528.4	588.5	710.3	590.7	500.6
42.5°	567.9	501.6	560.6	678.3	563.1	473.5
43°	541.0	473.2	534.0	647.1	536.4	447.1
43.5°	514.6	446.1	507.4	616.6	509.8	419.9



TEST NUMBER: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	439.6	368.6	429.9	530.1	434.2	345.6
45.5°	415.3	344.4	404.7	503.2	409.8	322.3
46°	391.4	320.9	380.5	476.6	386.0	300.1
46.5°	367.4	298.4	355.8	449.7	362.3	278.3
47°	344.6	276.8	333.0	423.8	340.0	257.7
47.5°	322.3	255.7	310.5	398.4	317.7	238.5
48°	300.8	235.6	288.7	374.4	296.4	219.9
48.5°	280.2	217.0	268.1	349.9	275.4	202.5
49°	260.1	199.1	248.2	326.9	256.2	185.8
49.5°	241.5	182.4	228.6	304.7	237.1	169.5
50°	224.3	166.1	210.7	282.9	218.2	154.3
50.5°	207.1	150.6	193.5	262.5	200.8	140.2
51°	189.9	136.6	176.5	242.9	184.3	127.1
51.5°	172.9	123.8	161.3	224.0	168.6	115.0
52°	157.4	111.9	147.0	206.3	153.8	103.7
52.5°	143.1	100.5	133.0	189.4	139.5	93.2
53°	129.6	90.1	120.4	173.4	125.9	83.6
53.5°	116.7	82.1	108.3	158.6	113.6	75.6
54°	104.6	73.9	97.4	143.6	102.2	67.6
54.5°	94.0	65.6	87.4	130.5	91.8	59.6
55°	84.0	57.6	79.2	118.2	83.3	51.6
55.5°	75.1	49.4	71.2	106.3	75.1	46.3
56°	66.1	45.5	63.0	95.4	66.8	44.3
56.5°	58.1	43.6	55.0	85.2	58.6	42.6
57°	51.1	41.9	46.7	78.2	50.4	41.2
57.5°	45.0	40.2	42.1	71.4	44.3	39.5
58°	40.4	38.7	40.4	64.4	40.4	38.0
58.5°	38.7	37.3	39.0	57.4	38.7	36.6
59°	37.1	35.8	37.5	50.6	37.3	35.1
59.5°	35.8	34.6	36.1	46.0	35.8	33.9
60°	34.4	33.2	34.6	42.1	34.6	32.7
60.5°	33.2	32.0	33.4	38.7	33.2	31.2
61°	32.0	30.8	32.2	35.8	32.0	30.0
61.5°	30.8	29.5	31.0	33.2	30.8	29.1
62°	29.5	28.6	29.8	31.0	29.5	27.9
62.5°	28.3	27.4	28.6	29.1	28.6	26.6
63°	27.4	26.4	27.6	27.4	27.4	25.7
63.5°	26.4	25.4	26.4	26.2	26.2	24.7
64°	25.2	24.5	25.4	25.2	25.2	23.7
64.5°	24.5	23.5	24.5	24.2	24.2	22.8
65°	23.5	22.5	23.5	23.2	23.2	21.8
65.5°	22.5	21.6	22.8	22.3	22.3	21.1
66°	21.6	20.8	21.8	21.6	21.6	20.1



TEST NUMBER: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	19.4	18.4	19.4	19.1	18.9	17.7
68°	18.4	17.7	18.4	18.2	18.2	17.0
68.5°	17.7	17.0	17.7	17.4	17.4	16.2
69°	17.0	16.2	17.0	16.7	16.7	15.5
69.5°	16.2	15.5	16.2	16.0	16.0	14.8
70°	15.5	14.8	15.7	15.3	15.3	14.0
70.5°	15.0	14.3	15.0	14.8	14.5	13.3
71°	14.3	13.6	14.3	14.0	13.8	12.8
71.5°	13.6	13.1	13.6	13.3	13.1	12.1
72°	13.1	12.4	13.1	12.8	12.6	11.6
72.5°	12.6	11.9	12.4	12.1	11.9	10.9
73°	11.9	11.1	11.9	11.6	11.1	10.4
73.5°	11.4	10.7	11.4	11.1	10.7	9.7
74°	10.9	10.2	10.7	10.4	10.2	9.2
74.5°	10.4	9.7	10.2	9.9	9.4	8.7
75°	9.7	9.2	9.7	9.4	9.0	8.2
75.5°	9.2	8.7	9.2	9.0	8.5	7.7
76°	8.7	8.2	8.7	8.5	8.0	7.0
76.5°	8.2	7.7	8.2	8.0	7.5	6.5
77°	7.7	7.3	7.7	7.3	7.0	6.3
77.5°	7.3	6.8	7.3	7.0	6.3	5.8
78°	6.8	6.3	6.8	6.5	5.8	5.3
78.5°	6.5	6.1	6.3	6.1	5.6	4.8
79°	6.1	5.6	5.8	5.6	5.1	4.6
79.5°	5.6	5.1	5.6	5.1	4.6	4.1
80°	5.1	4.8	5.1	4.8	4.1	3.6
80.5°	4.8	4.6	4.8	4.4	3.6	3.4
81°	4.4	4.1	4.4	4.1	3.4	2.9
81.5°	4.1	3.9	3.9	3.6	2.9	2.7
82°	3.6	3.4	3.6	3.4	2.4	2.4
82.5°	3.4	3.1	3.4	2.9	2.2	1.9
83°	3.1	2.9	2.9	2.7	1.9	1.7
83.5°	2.7	2.7	2.7	2.4	1.7	1.2
84°	2.4	2.4	2.4	2.2	1.2	1.0
84.5°	2.2	2.2	1.9	1.9	1.0	1.0
85°	1.9	1.7	1.7	1.5	1.0	0.7
85.5°	1.5	1.5	1.5	1.2	0.7	0.5
86°	1.2	1.2	1.2	1.0	0.5	0.5
86.5°	1.0	1.0	1.0	0.7	0.5	0.5
87°	0.7	0.7	0.7	0.5	0.2	0.2
87.5°	0.5	0.5	0.5	0.2	0.2	0.0
88°	0.2	0.2	0.2	0.2	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776005

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQH-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



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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°

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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°	1586.8	1581.2	1592.6	1582.2	1569.8	1570.8	1581.4	1581.2	1584.6	1598.6	1595.2
22°	1572.2	1566.7	1578.3	1566.9	1554.8	1555.8	1566.7	1565.9	1569.6	1583.6	1581.4



44°	394.3	453.1	570.8	473.5	383.1	453.4	562.8	490.4	414.4	485.6	567.7
44.5°	369.6	428.2	542.0	447.3	359.4	428.9	535.5	464.7	390.1	459.7	538.4



66.5°	19.4	20.3	22.0	24.7	24.2	24.7	23.0	24.2	24.7	25.2	21.6
67°	18.4	19.4	21.1	23.5	23.2	23.7	22.0	23.2	23.5	24.2	20.8



89°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0



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Scaled Data Report





21.5°	1595.0	1598.9	1602.3	1602.5	1596.0	1586.8
22°	1580.7	1584.6	1587.7	1588.2	1581.4	1572.2



44°	489.2	420.2	481.0	587.0	484.4	394.3
44.5°	464.5	394.0	455.3	558.0	458.9	369.6



66.5°	20.8	19.9	20.8	20.6	20.6	19.4
67°	20.1	19.1	20.1	19.9	19.6	18.4



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

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

Scaled Data Report



(END OF REPORT)