

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: P776063

Luminaire Tested: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B061)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

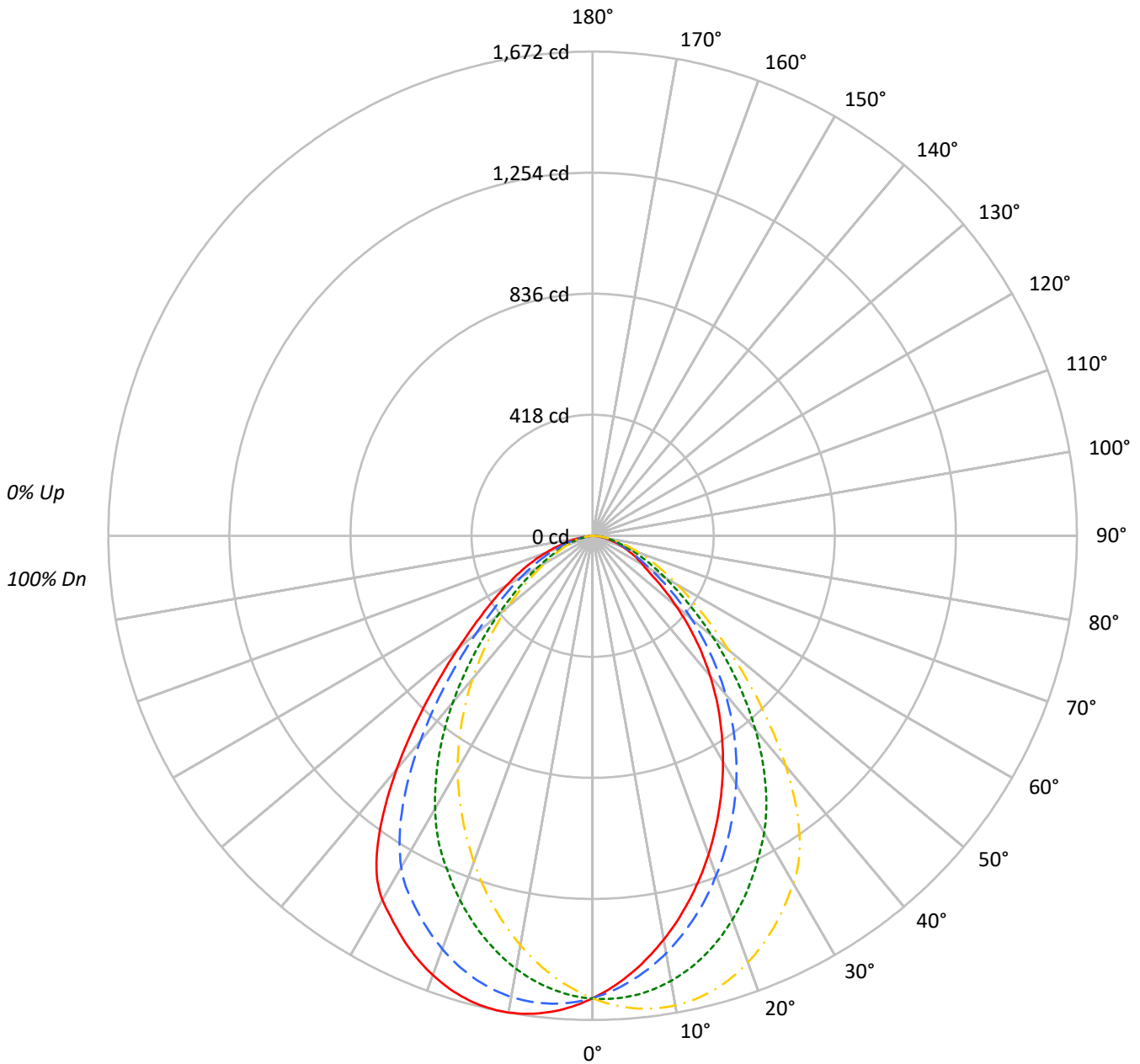
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-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 | 107 | 103 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 84 | 81 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | | | | |
| 5 | 82 | 71 | 63 | 57 | 80 | 69 | 62 | 57 | 67 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 51 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 48 | | | | | | | | |
| 7 | 71 | 59 | 51 | 46 | 70 | 58 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | | | | |
| 8 | 67 | 54 | 47 | 41 | 65 | 54 | 46 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | | | | | |
| 9 | 63 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 37 | 47 | 41 | 37 | 36 | | | | | | | | |
| 10 | 59 | 47 | 40 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 39 | 34 | 44 | 38 | 34 | 33 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 87548 | 87548 | 87548 | 87548 |
| 5° | 83485 | 87739 | 90821 | 86551 |
| 10° | 78806 | 86889 | 93057 | 84551 |
| 15° | 73706 | 85052 | 94172 | 81669 |
| 20° | 68273 | 82304 | 94176 | 78092 |
| 25° | 62647 | 78833 | 93241 | 74061 |
| 30° | 56964 | 74948 | 91900 | 68878 |
| 35° | 51176 | 69573 | 86418 | 61877 |
| 40° | 45149 | 62567 | 75305 | 53701 |
| 45° | 38702 | 54409 | 62851 | 44834 |
| 50° | 32007 | 45935 | 51836 | 36502 |
| 55° | 25815 | 38106 | 43630 | 29533 |
| 60° | 21939 | 31620 | 37694 | 24000 |
| 65° | 19924 | 26618 | 32948 | 19496 |
| 70° | 17695 | 22344 | 27873 | 15564 |
| 75° | 15504 | 18851 | 22134 | 12221 |
| 80° | 12849 | 16290 | 14932 | 9155 |
| 85° | 7988 | 15662 | 5284 | 5095 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 64193 cd/sqm



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.8 | 5.2 |
| 10°-20° | 414.1 | 14.3 |
| 20°-30° | 586.5 | 20.2 |
| 30°-40° | 624.9 | 21.6 |
| 40°-50° | 501.5 | 17.3 |
| 50°-60° | 325.6 | 11.2 |
| 60°-70° | 188.8 | 6.5 |
| 70°-80° | 88.8 | 3.1 |
| 80°-90° | 19.4 | 0.7 |
| 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° | 1150.4 | 39.7 |
| 0°-40° | 1775.3 | 61.2 |
| 0°-60° | 2602.5 | 89.8 |
| 0°-90° | 2899.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2899.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1597 | 1597 | 1597 | 1597 | 1597 | |
| 5° | 1517 | 1594 | 1650 | 1573 | 1517 | 142 |
| 15° | 1299 | 1499 | 1659 | 1439 | 1299 | 364 |
| 25° | 1036 | 1303 | 1542 | 1224 | 1036 | 475 |
| 35° | 765 | 1040 | 1291 | 925 | 765 | 477 |
| 45° | 499 | 702 | 811 | 578 | 499 | 385 |
| 55° | 270 | 399 | 456 | 309 | 270 | 246 |
| 65° | 154 | 205 | 254 | 150 | 154 | 153 |
| 75° | 73 | 89 | 104 | 58 | 73 | 78 |
| 85° | 13 | 25 | 8 | 8 | 13 | 17 |
| 90° | 0 | 4 | 0 | 0 | 0 | |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 |
| 0.5° | 1590.4 | 1590.4 | 1592.1 | 1594.9 | 1599.5 | 1601.0 | 1602.6 | 1603.3 | 1604.1 | 1602.0 | 1600.3 |
| 1° | 1583.2 | 1584.2 | 1587.8 | 1592.9 | 1600.0 | 1604.1 | 1607.6 | 1609.7 | 1610.2 | 1607.6 | 1603.8 |
| 1.5° | 1575.9 | 1577.9 | 1582.7 | 1590.6 | 1600.3 | 1607.1 | 1612.5 | 1615.5 | 1616.3 | 1612.7 | 1607.1 |
| 2° | 1568.2 | 1571.0 | 1577.9 | 1587.8 | 1600.5 | 1609.7 | 1617.1 | 1621.1 | 1621.9 | 1617.6 | 1610.2 |
| 2.5° | 1560.1 | 1563.9 | 1572.6 | 1584.8 | 1600.0 | 1611.7 | 1621.4 | 1626.5 | 1627.5 | 1622.1 | 1613.0 |
| 3° | 1552.0 | 1556.8 | 1567.0 | 1581.7 | 1599.5 | 1613.7 | 1625.2 | 1631.5 | 1632.6 | 1626.5 | 1615.3 |
| 3.5° | 1543.8 | 1549.2 | 1561.1 | 1578.1 | 1598.7 | 1615.3 | 1628.7 | 1636.4 | 1637.6 | 1630.3 | 1617.6 |
| 4° | 1535.2 | 1541.5 | 1555.0 | 1574.3 | 1597.7 | 1616.8 | 1632.1 | 1641.0 | 1642.0 | 1634.1 | 1619.1 |
| 4.5° | 1526.3 | 1533.6 | 1548.6 | 1570.3 | 1596.2 | 1617.8 | 1635.1 | 1645.0 | 1646.3 | 1637.4 | 1620.9 |
| 5° | 1517.1 | 1525.3 | 1542.0 | 1565.7 | 1594.4 | 1618.3 | 1637.9 | 1649.1 | 1650.4 | 1640.4 | 1621.9 |
| 5.5° | 1508.0 | 1516.9 | 1535.2 | 1561.4 | 1592.4 | 1618.8 | 1640.2 | 1652.7 | 1653.9 | 1643.2 | 1622.9 |
| 6° | 1498.3 | 1508.2 | 1528.3 | 1556.3 | 1590.1 | 1618.8 | 1642.2 | 1655.7 | 1657.2 | 1645.5 | 1623.4 |
| 6.5° | 1488.6 | 1499.3 | 1520.9 | 1551.2 | 1587.3 | 1618.6 | 1644.0 | 1658.5 | 1660.3 | 1647.8 | 1623.7 |
| 7° | 1478.7 | 1490.2 | 1513.3 | 1545.6 | 1584.5 | 1618.1 | 1645.3 | 1661.0 | 1662.8 | 1649.3 | 1623.7 |
| 7.5° | 1468.8 | 1480.8 | 1505.7 | 1539.7 | 1581.2 | 1617.3 | 1646.3 | 1663.3 | 1665.1 | 1650.9 | 1623.4 |
| 8° | 1458.6 | 1471.3 | 1497.5 | 1533.9 | 1577.6 | 1616.0 | 1647.1 | 1665.1 | 1667.1 | 1651.9 | 1622.9 |
| 8.5° | 1447.9 | 1461.7 | 1489.1 | 1527.8 | 1573.8 | 1614.5 | 1647.6 | 1666.9 | 1668.7 | 1652.7 | 1621.9 |
| 9° | 1437.5 | 1451.5 | 1480.8 | 1521.2 | 1569.8 | 1612.7 | 1647.6 | 1667.9 | 1670.2 | 1653.2 | 1620.6 |
| 9.5° | 1426.6 | 1441.3 | 1472.1 | 1514.3 | 1565.4 | 1610.7 | 1647.3 | 1668.9 | 1671.0 | 1653.4 | 1619.1 |
| 10° | 1415.7 | 1431.4 | 1463.2 | 1507.2 | 1560.9 | 1608.2 | 1646.8 | 1669.4 | 1671.7 | 1653.2 | 1617.3 |
| 10.5° | 1404.5 | 1421.2 | 1454.0 | 1500.1 | 1555.8 | 1605.6 | 1646.0 | 1669.7 | 1672.0 | 1652.4 | 1615.0 |
| 11° | 1393.5 | 1410.6 | 1444.6 | 1492.4 | 1550.7 | 1602.6 | 1644.8 | 1669.4 | 1672.0 | 1651.6 | 1612.5 |
| 11.5° | 1381.8 | 1399.6 | 1435.0 | 1484.8 | 1544.8 | 1599.3 | 1643.2 | 1668.9 | 1671.5 | 1650.4 | 1609.4 |
| 12° | 1370.4 | 1389.0 | 1425.3 | 1476.7 | 1539.2 | 1595.4 | 1641.5 | 1668.2 | 1670.7 | 1648.8 | 1606.4 |
| 12.5° | 1358.7 | 1377.5 | 1415.4 | 1468.3 | 1533.4 | 1591.6 | 1639.2 | 1666.9 | 1669.7 | 1647.1 | 1603.1 |
| 13° | 1347.0 | 1366.8 | 1405.5 | 1459.9 | 1527.0 | 1587.3 | 1636.6 | 1665.4 | 1668.2 | 1644.8 | 1599.3 |
| 13.5° | 1334.8 | 1355.4 | 1395.1 | 1451.5 | 1520.2 | 1582.7 | 1633.6 | 1663.6 | 1666.4 | 1642.5 | 1595.2 |
| 14° | 1323.1 | 1343.9 | 1384.6 | 1442.6 | 1513.3 | 1577.9 | 1630.5 | 1661.3 | 1664.4 | 1639.7 | 1590.9 |
| 14.5° | 1310.6 | 1332.0 | 1374.2 | 1433.2 | 1506.2 | 1572.6 | 1627.0 | 1658.8 | 1662.1 | 1636.4 | 1586.3 |
| 15° | 1298.7 | 1320.5 | 1363.3 | 1424.0 | 1498.6 | 1567.0 | 1623.2 | 1656.0 | 1659.3 | 1632.8 | 1581.5 |
| 15.5° | 1285.7 | 1308.3 | 1352.1 | 1414.1 | 1491.2 | 1561.4 | 1619.1 | 1652.7 | 1656.0 | 1629.0 | 1576.1 |
| 16° | 1273.5 | 1296.4 | 1341.4 | 1404.7 | 1483.0 | 1555.3 | 1614.5 | 1649.1 | 1652.7 | 1624.9 | 1570.8 |
| 16.5° | 1261.0 | 1284.2 | 1330.2 | 1394.5 | 1474.9 | 1548.9 | 1609.7 | 1645.3 | 1648.8 | 1620.6 | 1565.2 |
| 17° | 1248.3 | 1272.2 | 1318.8 | 1384.4 | 1466.3 | 1542.3 | 1604.6 | 1641.0 | 1644.8 | 1616.0 | 1559.3 |
| 17.5° | 1235.4 | 1259.8 | 1307.1 | 1373.9 | 1457.9 | 1535.4 | 1599.3 | 1636.6 | 1640.4 | 1610.9 | 1553.0 |
| 18° | 1222.6 | 1247.6 | 1295.6 | 1363.5 | 1448.7 | 1527.8 | 1593.4 | 1631.5 | 1635.9 | 1605.9 | 1546.4 |
| 18.5° | 1209.4 | 1234.8 | 1283.7 | 1352.6 | 1439.6 | 1520.4 | 1587.3 | 1626.5 | 1630.8 | 1600.3 | 1539.5 |
| 19° | 1196.7 | 1222.4 | 1272.0 | 1341.7 | 1430.1 | 1512.8 | 1581.2 | 1621.1 | 1625.4 | 1594.4 | 1532.6 |
| 19.5° | 1183.5 | 1209.4 | 1259.8 | 1330.7 | 1420.7 | 1504.9 | 1574.6 | 1615.5 | 1619.8 | 1588.3 | 1525.5 |
| 20° | 1170.3 | 1197.0 | 1247.8 | 1319.8 | 1410.8 | 1496.8 | 1567.7 | 1609.4 | 1614.3 | 1582.2 | 1518.1 |
| 20.5° | 1156.8 | 1184.0 | 1235.6 | 1308.1 | 1400.9 | 1488.1 | 1560.6 | 1603.1 | 1607.9 | 1575.6 | 1510.2 |
| 21° | 1143.8 | 1171.0 | 1223.2 | 1296.9 | 1390.5 | 1479.5 | 1553.2 | 1596.7 | 1601.5 | 1568.5 | 1502.4 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1103.4 | 1131.9 | 1185.5 | 1261.5 | 1359.5 | 1452.0 | 1530.1 | 1575.6 | 1580.9 | 1546.9 | 1477.4 |
| 23° | 1089.9 | 1118.4 | 1172.8 | 1249.6 | 1348.3 | 1442.4 | 1521.7 | 1568.2 | 1573.6 | 1539.0 | 1468.5 |
| 23.5° | 1076.7 | 1105.4 | 1160.3 | 1237.4 | 1337.3 | 1432.9 | 1513.0 | 1560.1 | 1565.9 | 1531.1 | 1459.6 |
| 24° | 1063.2 | 1091.9 | 1147.4 | 1225.4 | 1325.9 | 1422.5 | 1504.4 | 1552.2 | 1558.1 | 1522.7 | 1450.5 |
| 24.5° | 1049.5 | 1078.7 | 1134.4 | 1213.0 | 1314.7 | 1412.6 | 1495.5 | 1543.8 | 1549.9 | 1514.3 | 1441.1 |
| 25° | 1035.7 | 1065.5 | 1121.7 | 1200.5 | 1303.3 | 1402.4 | 1486.1 | 1535.7 | 1541.5 | 1505.7 | 1431.2 |
| 25.5° | 1022.3 | 1051.8 | 1108.7 | 1187.8 | 1291.8 | 1391.7 | 1476.9 | 1526.8 | 1533.1 | 1496.8 | 1421.8 |
| 26° | 1008.8 | 1038.5 | 1095.5 | 1175.6 | 1279.9 | 1381.3 | 1467.5 | 1517.9 | 1524.2 | 1487.6 | 1412.1 |
| 26.5° | 995.3 | 1025.1 | 1082.8 | 1163.4 | 1268.4 | 1370.6 | 1457.6 | 1508.5 | 1515.1 | 1478.5 | 1402.4 |
| 27° | 981.6 | 1012.1 | 1069.8 | 1150.7 | 1256.2 | 1359.7 | 1447.4 | 1499.6 | 1505.9 | 1469.1 | 1393.3 |
| 27.5° | 967.8 | 998.6 | 1056.8 | 1138.0 | 1244.5 | 1348.5 | 1437.5 | 1489.7 | 1496.8 | 1460.4 | 1383.6 |
| 28° | 954.1 | 984.6 | 1043.6 | 1125.5 | 1232.3 | 1337.3 | 1427.3 | 1480.2 | 1487.6 | 1451.5 | 1373.2 |
| 28.5° | 940.9 | 971.1 | 1030.7 | 1113.0 | 1220.6 | 1326.1 | 1416.9 | 1470.6 | 1479.0 | 1442.9 | 1361.5 |
| 29° | 927.2 | 957.9 | 1017.4 | 1100.1 | 1208.4 | 1315.0 | 1406.5 | 1461.2 | 1470.6 | 1433.2 | 1348.8 |
| 29.5° | 913.4 | 944.4 | 1004.2 | 1087.1 | 1196.5 | 1304.3 | 1396.6 | 1452.0 | 1461.4 | 1422.5 | 1335.5 |
| 30° | 899.9 | 931.0 | 991.0 | 1074.4 | 1184.0 | 1292.6 | 1386.7 | 1442.9 | 1451.8 | 1410.6 | 1321.6 |
| 30.5° | 886.5 | 917.5 | 977.5 | 1061.2 | 1171.3 | 1280.9 | 1375.7 | 1432.9 | 1441.3 | 1397.3 | 1306.8 |
| 31° | 872.7 | 904.0 | 964.3 | 1047.2 | 1158.1 | 1268.4 | 1364.8 | 1422.5 | 1429.6 | 1383.4 | 1290.8 |
| 31.5° | 859.3 | 890.8 | 950.5 | 1034.0 | 1144.3 | 1255.4 | 1352.6 | 1410.3 | 1416.7 | 1368.6 | 1274.5 |
| 32° | 845.5 | 876.8 | 937.1 | 1020.0 | 1130.6 | 1241.5 | 1339.4 | 1397.6 | 1402.7 | 1352.6 | 1258.0 |
| 32.5° | 832.0 | 863.3 | 923.6 | 1006.0 | 1116.1 | 1226.7 | 1325.1 | 1383.9 | 1387.2 | 1335.5 | 1240.4 |
| 33° | 818.8 | 849.8 | 909.6 | 992.0 | 1101.1 | 1211.7 | 1310.9 | 1369.1 | 1370.4 | 1317.2 | 1222.1 |
| 33.5° | 805.3 | 836.4 | 896.1 | 977.5 | 1086.3 | 1196.5 | 1295.1 | 1352.6 | 1352.1 | 1297.9 | 1203.3 |
| 34° | 791.9 | 822.6 | 882.1 | 963.0 | 1070.8 | 1180.7 | 1279.1 | 1335.0 | 1332.5 | 1278.3 | 1184.5 |
| 34.5° | 778.4 | 809.4 | 868.4 | 948.0 | 1055.3 | 1164.7 | 1262.1 | 1316.2 | 1312.7 | 1257.7 | 1164.2 |
| 35° | 764.7 | 795.7 | 854.4 | 933.3 | 1039.6 | 1147.6 | 1244.0 | 1296.4 | 1291.3 | 1236.6 | 1144.1 |
| 35.5° | 751.7 | 782.2 | 840.4 | 918.3 | 1023.5 | 1130.8 | 1225.4 | 1276.0 | 1269.4 | 1214.5 | 1123.5 |
| 36° | 738.5 | 768.7 | 826.5 | 903.3 | 1007.5 | 1113.6 | 1206.4 | 1254.9 | 1247.1 | 1192.1 | 1102.4 |
| 36.5° | 725.0 | 755.3 | 812.5 | 888.0 | 991.2 | 1096.0 | 1186.5 | 1232.8 | 1223.7 | 1169.7 | 1081.0 |
| 37° | 711.3 | 741.3 | 798.2 | 873.0 | 975.0 | 1077.9 | 1166.4 | 1210.2 | 1199.8 | 1146.4 | 1058.9 |
| 37.5° | 698.0 | 727.8 | 784.2 | 858.0 | 958.4 | 1059.4 | 1145.3 | 1187.3 | 1175.9 | 1122.7 | 1036.8 |
| 38° | 684.6 | 714.3 | 769.7 | 842.7 | 941.4 | 1041.8 | 1124.2 | 1164.4 | 1151.4 | 1098.5 | 1014.6 |
| 38.5° | 671.1 | 700.8 | 756.0 | 827.5 | 925.1 | 1022.3 | 1102.9 | 1140.8 | 1127.0 | 1075.2 | 992.5 |
| 39° | 657.9 | 687.1 | 742.0 | 812.5 | 908.1 | 1003.4 | 1081.3 | 1116.9 | 1101.9 | 1050.5 | 970.1 |
| 39.5° | 644.4 | 673.9 | 727.8 | 797.0 | 891.3 | 984.1 | 1058.9 | 1092.4 | 1077.2 | 1026.6 | 948.0 |
| 40° | 630.9 | 660.4 | 713.3 | 781.7 | 874.3 | 965.3 | 1036.5 | 1068.0 | 1052.3 | 1002.2 | 924.9 |
| 40.5° | 617.7 | 646.9 | 699.6 | 766.4 | 856.7 | 944.4 | 1014.4 | 1043.6 | 1027.3 | 978.5 | 902.5 |
| 41° | 604.2 | 633.4 | 685.3 | 751.2 | 839.7 | 925.1 | 992.0 | 1019.2 | 1002.4 | 953.6 | 880.1 |
| 41.5° | 591.0 | 620.5 | 671.3 | 735.9 | 822.4 | 905.3 | 969.6 | 994.3 | 977.2 | 930.2 | 858.0 |
| 42° | 577.5 | 607.0 | 657.3 | 720.4 | 805.3 | 886.2 | 946.5 | 969.9 | 952.8 | 905.5 | 835.4 |
| 42.5° | 564.5 | 594.0 | 643.6 | 705.4 | 788.1 | 865.4 | 924.1 | 946.0 | 928.7 | 882.4 | 814.0 |
| 43° | 551.3 | 580.8 | 629.6 | 689.6 | 770.5 | 845.8 | 901.7 | 922.1 | 904.3 | 858.5 | 791.9 |
| 43.5° | 538.1 | 567.6 | 615.9 | 675.4 | 753.2 | 825.4 | 879.6 | 898.4 | 880.4 | 835.6 | 770.3 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 499.2 | 528.4 | 574.7 | 629.9 | 701.8 | 766.4 | 813.5 | 828.0 | 810.7 | 768.0 | 707.7 |
| 45.5° | 486.2 | 515.7 | 561.2 | 615.9 | 684.6 | 746.6 | 791.9 | 806.1 | 788.1 | 746.4 | 687.6 |
| 46° | 473.7 | 503.0 | 548.0 | 601.1 | 668.0 | 727.3 | 770.8 | 783.7 | 766.2 | 724.7 | 667.8 |
| 46.5° | 461.0 | 490.3 | 534.5 | 586.4 | 651.0 | 708.5 | 749.9 | 762.6 | 744.3 | 703.9 | 648.2 |
| 47° | 448.3 | 477.8 | 521.3 | 571.4 | 634.2 | 689.6 | 728.6 | 740.5 | 723.2 | 683.5 | 629.1 |
| 47.5° | 435.9 | 465.1 | 508.3 | 557.7 | 617.7 | 670.6 | 708.5 | 720.2 | 702.6 | 663.5 | 610.8 |
| 48° | 423.4 | 452.6 | 495.4 | 543.4 | 601.7 | 652.3 | 688.9 | 699.8 | 682.8 | 644.1 | 592.5 |
| 48.5° | 411.2 | 440.4 | 482.4 | 529.7 | 585.4 | 634.5 | 669.3 | 680.5 | 663.5 | 625.3 | 575.0 |
| 49° | 399.2 | 428.2 | 469.9 | 515.2 | 569.6 | 616.9 | 650.5 | 660.4 | 644.1 | 607.3 | 557.4 |
| 49.5° | 387.3 | 416.3 | 457.2 | 501.7 | 553.9 | 598.9 | 631.9 | 642.1 | 626.1 | 589.2 | 540.9 |
| 50° | 375.3 | 404.1 | 444.5 | 488.0 | 538.6 | 581.8 | 613.6 | 623.5 | 607.8 | 571.9 | 524.6 |
| 50.5° | 363.9 | 391.9 | 432.3 | 474.5 | 522.8 | 565.0 | 595.6 | 606.0 | 590.2 | 554.9 | 508.8 |
| 51° | 352.5 | 380.4 | 420.1 | 461.3 | 508.1 | 548.5 | 578.8 | 588.4 | 573.2 | 538.6 | 493.3 |
| 51.5° | 341.3 | 369.0 | 407.9 | 447.8 | 494.1 | 532.5 | 562.2 | 571.7 | 557.2 | 523.1 | 478.6 |
| 52° | 330.3 | 357.8 | 396.2 | 434.8 | 479.3 | 516.5 | 545.5 | 555.4 | 541.1 | 508.1 | 464.3 |
| 52.5° | 319.6 | 346.3 | 384.2 | 422.1 | 464.8 | 500.7 | 529.7 | 540.1 | 525.9 | 493.3 | 450.1 |
| 53° | 309.2 | 335.4 | 372.8 | 409.4 | 451.1 | 486.0 | 514.2 | 524.4 | 511.1 | 478.8 | 436.6 |
| 53.5° | 298.8 | 324.5 | 360.8 | 397.2 | 437.4 | 471.2 | 499.4 | 509.6 | 496.4 | 465.4 | 423.7 |
| 54° | 289.1 | 314.3 | 349.9 | 385.0 | 424.4 | 457.0 | 484.9 | 495.1 | 482.6 | 452.1 | 410.7 |
| 54.5° | 279.5 | 304.1 | 339.2 | 373.0 | 411.2 | 443.0 | 470.4 | 481.1 | 469.2 | 439.2 | 398.5 |
| 55° | 270.1 | 294.0 | 328.3 | 361.4 | 398.7 | 429.5 | 457.2 | 467.6 | 456.5 | 427.0 | 386.5 |
| 55.5° | 260.9 | 284.3 | 317.6 | 350.2 | 386.3 | 416.5 | 443.5 | 454.4 | 443.5 | 414.5 | 375.1 |
| 56° | 252.5 | 274.6 | 307.4 | 338.7 | 374.1 | 403.8 | 430.5 | 441.5 | 431.0 | 403.3 | 363.9 |
| 56.5° | 244.1 | 265.2 | 297.0 | 328.0 | 362.4 | 391.4 | 417.8 | 428.7 | 419.1 | 391.6 | 352.7 |
| 57° | 236.2 | 256.6 | 286.8 | 317.4 | 350.7 | 379.4 | 405.3 | 416.8 | 407.6 | 380.7 | 342.3 |
| 57.5° | 228.6 | 247.7 | 276.7 | 306.7 | 339.7 | 367.5 | 393.6 | 404.8 | 396.2 | 369.7 | 331.9 |
| 58° | 222.0 | 239.3 | 267.5 | 296.8 | 328.8 | 356.5 | 381.9 | 393.6 | 385.3 | 359.6 | 322.2 |
| 58.5° | 215.4 | 230.9 | 258.1 | 286.8 | 318.4 | 345.6 | 370.8 | 382.5 | 374.6 | 349.1 | 312.3 |
| 59° | 209.5 | 223.5 | 249.0 | 277.4 | 308.2 | 334.7 | 359.8 | 371.5 | 363.9 | 339.0 | 302.6 |
| 59.5° | 204.2 | 216.1 | 240.1 | 267.8 | 298.0 | 324.0 | 348.6 | 360.8 | 353.7 | 329.3 | 293.5 |
| 60° | 200.1 | 209.3 | 231.9 | 258.6 | 288.4 | 313.8 | 338.2 | 350.4 | 343.8 | 320.2 | 284.6 |
| 60.5° | 195.8 | 202.7 | 223.5 | 250.0 | 279.0 | 303.9 | 328.3 | 340.2 | 334.1 | 310.2 | 275.7 |
| 61° | 191.2 | 197.3 | 215.6 | 241.3 | 269.8 | 294.2 | 318.4 | 330.3 | 324.2 | 301.1 | 267.0 |
| 61.5° | 186.7 | 192.2 | 208.3 | 232.7 | 260.9 | 284.8 | 308.7 | 320.7 | 315.1 | 292.4 | 258.4 |
| 62° | 181.8 | 188.2 | 201.1 | 224.8 | 252.3 | 275.9 | 299.0 | 311.3 | 306.2 | 283.8 | 250.2 |
| 62.5° | 177.0 | 183.6 | 194.0 | 216.7 | 243.6 | 266.8 | 289.6 | 301.8 | 297.0 | 274.9 | 241.8 |
| 63° | 172.2 | 179.0 | 187.7 | 209.0 | 235.5 | 257.9 | 280.5 | 292.7 | 287.9 | 266.2 | 233.9 |
| 63.5° | 167.6 | 174.4 | 181.1 | 201.4 | 227.3 | 249.7 | 271.6 | 283.5 | 279.2 | 257.9 | 226.1 |
| 64° | 162.7 | 169.9 | 175.0 | 194.5 | 220.0 | 241.3 | 262.9 | 274.9 | 270.8 | 250.0 | 218.7 |
| 64.5° | 158.2 | 165.0 | 169.1 | 187.4 | 212.6 | 233.4 | 254.3 | 266.5 | 262.2 | 241.6 | 211.3 |
| 65° | 153.6 | 160.7 | 163.8 | 180.5 | 205.2 | 225.3 | 246.2 | 258.1 | 254.0 | 233.9 | 203.9 |
| 65.5° | 149.0 | 156.4 | 158.4 | 173.9 | 197.8 | 217.9 | 238.0 | 249.7 | 245.6 | 225.8 | 196.6 |
| 66° | 144.4 | 151.8 | 153.3 | 167.6 | 190.2 | 210.6 | 229.9 | 241.3 | 237.3 | 218.2 | 189.2 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 131.2 | 138.6 | 139.6 | 149.3 | 170.4 | 188.2 | 207.2 | 217.9 | 213.1 | 195.6 | 168.6 |
| 68° | 127.1 | 134.3 | 135.5 | 143.9 | 163.8 | 181.3 | 199.9 | 210.3 | 205.2 | 187.9 | 161.7 |
| 68.5° | 122.8 | 129.9 | 131.5 | 138.3 | 157.4 | 174.4 | 192.2 | 202.7 | 197.3 | 180.3 | 155.4 |
| 69° | 118.8 | 125.9 | 127.7 | 133.0 | 151.3 | 167.6 | 185.1 | 195.0 | 189.2 | 172.9 | 149.0 |
| 69.5° | 114.4 | 121.8 | 123.8 | 127.9 | 145.2 | 161.2 | 177.8 | 187.2 | 181.6 | 165.8 | 142.7 |
| 70° | 110.4 | 117.7 | 120.0 | 123.1 | 139.4 | 154.6 | 170.9 | 180.0 | 173.9 | 158.4 | 136.3 |
| 70.5° | 106.3 | 113.7 | 116.2 | 118.2 | 133.8 | 148.5 | 164.3 | 172.7 | 166.6 | 151.6 | 130.5 |
| 71° | 102.5 | 109.6 | 112.4 | 113.7 | 128.2 | 142.4 | 157.7 | 165.8 | 159.2 | 144.9 | 124.6 |
| 71.5° | 98.7 | 105.8 | 108.8 | 109.1 | 122.8 | 136.6 | 151.1 | 158.4 | 151.8 | 138.1 | 118.5 |
| 72° | 94.9 | 102.0 | 105.0 | 105.0 | 117.5 | 130.7 | 144.7 | 151.8 | 144.7 | 131.5 | 112.9 |
| 72.5° | 91.8 | 98.2 | 101.5 | 100.7 | 112.4 | 124.9 | 138.3 | 144.9 | 137.8 | 124.9 | 107.3 |
| 73° | 88.0 | 94.3 | 97.9 | 96.9 | 107.6 | 119.5 | 132.2 | 138.3 | 131.0 | 118.5 | 101.7 |
| 73.5° | 84.4 | 91.8 | 94.3 | 93.1 | 102.7 | 113.9 | 126.1 | 132.0 | 123.8 | 112.4 | 96.4 |
| 74° | 80.6 | 88.2 | 92.3 | 89.5 | 98.2 | 108.8 | 120.3 | 125.6 | 117.5 | 106.3 | 91.0 |
| 74.5° | 76.8 | 84.4 | 88.5 | 86.0 | 93.6 | 103.5 | 114.7 | 119.3 | 110.9 | 100.2 | 86.0 |
| 75° | 73.2 | 80.6 | 84.9 | 82.6 | 89.0 | 98.4 | 109.1 | 113.2 | 104.5 | 94.3 | 80.9 |
| 75.5° | 69.9 | 76.8 | 81.4 | 79.1 | 84.7 | 93.6 | 103.5 | 107.3 | 98.2 | 88.7 | 76.0 |
| 76° | 66.4 | 73.2 | 77.6 | 75.8 | 80.6 | 89.0 | 97.9 | 101.5 | 91.8 | 83.2 | 71.2 |
| 76.5° | 63.1 | 69.9 | 74.3 | 72.5 | 76.5 | 84.2 | 92.6 | 95.6 | 86.0 | 77.8 | 66.4 |
| 77° | 59.8 | 66.4 | 70.9 | 69.4 | 72.7 | 79.6 | 87.5 | 90.0 | 80.1 | 72.5 | 62.0 |
| 77.5° | 56.5 | 63.1 | 67.9 | 66.4 | 68.7 | 75.3 | 82.4 | 84.7 | 74.3 | 67.4 | 57.5 |
| 78° | 53.1 | 59.8 | 64.6 | 63.6 | 65.1 | 70.9 | 77.6 | 79.6 | 68.7 | 62.3 | 53.4 |
| 78.5° | 50.1 | 56.5 | 61.5 | 60.5 | 61.5 | 66.9 | 72.7 | 74.3 | 63.1 | 57.5 | 49.1 |
| 79° | 46.8 | 53.4 | 58.5 | 57.7 | 58.2 | 62.8 | 68.2 | 69.2 | 57.7 | 52.9 | 45.0 |
| 79.5° | 43.7 | 50.1 | 55.4 | 54.9 | 54.7 | 59.0 | 63.6 | 64.6 | 52.4 | 48.3 | 41.2 |
| 80° | 40.7 | 47.0 | 52.4 | 52.1 | 51.6 | 55.2 | 59.3 | 59.8 | 47.3 | 43.7 | 37.4 |
| 80.5° | 37.9 | 44.0 | 49.3 | 49.6 | 48.6 | 51.6 | 54.9 | 55.2 | 42.5 | 39.7 | 33.8 |
| 81° | 34.8 | 40.9 | 46.5 | 46.8 | 45.5 | 48.1 | 50.9 | 50.6 | 37.6 | 35.6 | 30.3 |
| 81.5° | 31.8 | 37.9 | 43.5 | 44.0 | 42.7 | 44.5 | 46.8 | 46.0 | 33.1 | 31.5 | 27.0 |
| 82° | 29.0 | 35.1 | 40.7 | 41.4 | 39.9 | 41.2 | 42.7 | 41.4 | 28.7 | 28.0 | 24.2 |
| 82.5° | 26.2 | 32.0 | 37.9 | 38.7 | 37.1 | 37.9 | 38.9 | 37.1 | 25.2 | 24.7 | 21.1 |
| 83° | 23.4 | 29.2 | 35.1 | 36.1 | 34.6 | 35.1 | 35.3 | 33.1 | 21.6 | 21.4 | 18.3 |
| 83.5° | 20.9 | 26.4 | 32.3 | 33.6 | 32.0 | 32.0 | 32.0 | 29.2 | 18.1 | 18.1 | 15.5 |
| 84° | 18.1 | 23.6 | 29.8 | 31.0 | 29.5 | 29.0 | 28.5 | 25.7 | 14.5 | 14.7 | 12.5 |
| 84.5° | 15.3 | 20.9 | 27.2 | 28.7 | 27.2 | 26.4 | 25.7 | 22.1 | 10.9 | 11.4 | 10.4 |
| 85° | 12.7 | 18.1 | 24.7 | 26.2 | 24.9 | 23.9 | 22.9 | 18.8 | 8.4 | 8.9 | 8.1 |
| 85.5° | 10.2 | 15.5 | 22.1 | 23.6 | 22.6 | 21.4 | 19.8 | 15.3 | 6.6 | 6.6 | 6.4 |
| 86° | 8.6 | 13.0 | 19.8 | 21.4 | 20.3 | 19.1 | 17.0 | 12.0 | 5.1 | 4.8 | 4.6 |
| 86.5° | 7.1 | 10.9 | 17.3 | 18.8 | 18.3 | 16.5 | 14.0 | 9.4 | 4.1 | 3.3 | 3.1 |
| 87° | 5.6 | 9.2 | 15.0 | 16.5 | 16.0 | 14.0 | 11.7 | 7.4 | 3.1 | 2.0 | 1.8 |
| 87.5° | 3.8 | 7.6 | 12.7 | 14.2 | 14.0 | 12.0 | 9.4 | 5.3 | 2.3 | 1.0 | 0.8 |
| 88° | 2.8 | 5.8 | 10.4 | 12.0 | 12.0 | 9.7 | 7.4 | 3.6 | 1.5 | 0.5 | 0.3 |
| 88.5° | 1.5 | 4.3 | 8.6 | 9.7 | 9.7 | 7.9 | 5.3 | 2.3 | 0.8 | 0.3 | 0.0 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.3 | 2.5 | 3.6 | 3.8 | 2.5 | 1.0 | 0.3 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 | 1597.0 |
| 0.5° | 1598.2 | 1597.2 | 1593.9 | 1591.6 | 1590.1 | 1590.4 |
| 1° | 1599.5 | 1595.7 | 1589.8 | 1585.5 | 1583.0 | 1583.2 |
| 1.5° | 1600.5 | 1593.9 | 1585.5 | 1579.2 | 1575.6 | 1575.9 |
| 2° | 1601.0 | 1591.6 | 1580.9 | 1572.8 | 1568.0 | 1568.2 |
| 2.5° | 1601.5 | 1589.3 | 1576.1 | 1565.9 | 1560.3 | 1560.1 |
| 3° | 1601.5 | 1586.5 | 1571.0 | 1559.1 | 1552.2 | 1552.0 |
| 3.5° | 1601.0 | 1583.5 | 1565.7 | 1551.7 | 1543.8 | 1543.8 |
| 4° | 1600.5 | 1580.2 | 1559.8 | 1544.3 | 1535.4 | 1535.2 |
| 4.5° | 1599.8 | 1576.6 | 1554.0 | 1536.4 | 1526.8 | 1526.3 |
| 5° | 1598.5 | 1572.8 | 1547.6 | 1528.6 | 1517.6 | 1517.1 |
| 5.5° | 1597.0 | 1568.7 | 1541.3 | 1520.2 | 1508.2 | 1508.0 |
| 6° | 1595.2 | 1564.2 | 1534.7 | 1511.8 | 1499.1 | 1498.3 |
| 6.5° | 1593.1 | 1559.6 | 1527.5 | 1502.9 | 1489.4 | 1488.6 |
| 7° | 1590.9 | 1554.5 | 1520.4 | 1494.0 | 1479.5 | 1478.7 |
| 7.5° | 1588.1 | 1549.2 | 1512.8 | 1484.8 | 1469.3 | 1468.8 |
| 8° | 1585.0 | 1543.6 | 1504.9 | 1475.4 | 1459.1 | 1458.6 |
| 8.5° | 1581.7 | 1537.7 | 1497.0 | 1465.7 | 1448.7 | 1447.9 |
| 9° | 1578.4 | 1531.6 | 1488.6 | 1456.1 | 1438.3 | 1437.5 |
| 9.5° | 1574.6 | 1525.3 | 1480.2 | 1445.9 | 1427.1 | 1426.6 |
| 10° | 1570.5 | 1518.9 | 1471.6 | 1435.7 | 1416.4 | 1415.7 |
| 10.5° | 1565.9 | 1511.8 | 1462.7 | 1425.3 | 1405.2 | 1404.5 |
| 11° | 1561.4 | 1504.7 | 1453.3 | 1414.6 | 1394.0 | 1393.5 |
| 11.5° | 1556.3 | 1497.3 | 1443.9 | 1404.0 | 1382.6 | 1381.8 |
| 12° | 1550.9 | 1489.7 | 1434.5 | 1393.0 | 1370.9 | 1370.4 |
| 12.5° | 1545.6 | 1482.0 | 1424.6 | 1381.8 | 1359.2 | 1358.7 |
| 13° | 1539.7 | 1473.6 | 1414.6 | 1370.4 | 1347.2 | 1347.0 |
| 13.5° | 1533.9 | 1465.2 | 1404.5 | 1358.9 | 1335.5 | 1334.8 |
| 14° | 1527.3 | 1456.8 | 1394.0 | 1347.5 | 1323.3 | 1323.1 |
| 14.5° | 1520.7 | 1448.2 | 1383.6 | 1335.8 | 1311.1 | 1310.6 |
| 15° | 1513.8 | 1439.0 | 1372.9 | 1323.9 | 1298.7 | 1298.7 |
| 15.5° | 1506.7 | 1429.9 | 1362.0 | 1311.9 | 1286.0 | 1285.7 |
| 16° | 1499.6 | 1420.5 | 1350.6 | 1299.7 | 1273.5 | 1273.5 |
| 16.5° | 1491.7 | 1410.8 | 1339.4 | 1287.5 | 1261.0 | 1261.0 |
| 17° | 1484.1 | 1401.2 | 1327.9 | 1275.0 | 1248.1 | 1248.3 |
| 17.5° | 1475.9 | 1391.2 | 1316.5 | 1262.6 | 1235.4 | 1235.4 |
| 18° | 1467.5 | 1380.8 | 1304.8 | 1250.1 | 1222.1 | 1222.6 |
| 18.5° | 1459.1 | 1370.6 | 1292.8 | 1237.1 | 1209.4 | 1209.4 |
| 19° | 1450.5 | 1360.0 | 1281.1 | 1224.4 | 1196.2 | 1196.7 |
| 19.5° | 1441.8 | 1349.5 | 1268.9 | 1211.7 | 1183.0 | 1183.5 |
| 20° | 1432.4 | 1338.6 | 1257.0 | 1198.7 | 1169.7 | 1170.3 |
| 20.5° | 1423.3 | 1327.7 | 1244.8 | 1185.8 | 1156.3 | 1156.8 |
| 21° | 1413.6 | 1316.5 | 1232.3 | 1172.3 | 1143.0 | 1143.8 |

TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1384.1 | 1282.1 | 1194.7 | 1133.1 | 1102.6 | 1103.4 |
| 23° | 1373.9 | 1270.7 | 1182.2 | 1119.7 | 1089.1 | 1089.9 |
| 23.5° | 1363.5 | 1259.0 | 1169.5 | 1106.4 | 1075.7 | 1076.7 |
| 24° | 1353.1 | 1247.6 | 1157.0 | 1093.5 | 1061.9 | 1063.2 |
| 24.5° | 1342.4 | 1235.9 | 1144.6 | 1080.2 | 1048.5 | 1049.5 |
| 25° | 1332.0 | 1224.4 | 1132.1 | 1066.3 | 1035.0 | 1035.7 |
| 25.5° | 1321.6 | 1212.5 | 1118.9 | 1053.8 | 1021.5 | 1022.3 |
| 26° | 1311.1 | 1200.8 | 1106.4 | 1039.8 | 1008.0 | 1008.8 |
| 26.5° | 1300.5 | 1188.6 | 1093.7 | 1027.1 | 994.3 | 995.3 |
| 27° | 1289.3 | 1175.3 | 1080.5 | 1013.6 | 980.6 | 981.6 |
| 27.5° | 1277.1 | 1161.1 | 1066.5 | 1000.4 | 967.1 | 967.8 |
| 28° | 1263.8 | 1147.4 | 1052.5 | 986.4 | 953.6 | 954.1 |
| 28.5° | 1250.1 | 1132.6 | 1038.3 | 973.2 | 940.1 | 940.9 |
| 29° | 1236.1 | 1118.4 | 1024.0 | 959.4 | 926.4 | 927.2 |
| 29.5° | 1221.6 | 1103.4 | 1009.8 | 945.7 | 912.9 | 913.4 |
| 30° | 1206.1 | 1088.1 | 995.1 | 931.0 | 899.7 | 899.9 |
| 30.5° | 1190.6 | 1072.6 | 980.3 | 917.7 | 886.2 | 886.5 |
| 31° | 1174.6 | 1057.1 | 965.0 | 903.3 | 872.2 | 872.7 |
| 31.5° | 1158.3 | 1041.1 | 949.8 | 889.0 | 858.7 | 859.3 |
| 32° | 1141.3 | 1024.8 | 934.5 | 874.3 | 845.0 | 845.5 |
| 32.5° | 1124.2 | 1008.3 | 919.3 | 860.5 | 831.3 | 832.0 |
| 33° | 1106.9 | 992.0 | 903.8 | 846.0 | 817.8 | 818.8 |
| 33.5° | 1089.4 | 975.2 | 888.0 | 831.5 | 804.1 | 805.3 |
| 34° | 1071.1 | 958.7 | 872.7 | 817.0 | 790.3 | 791.9 |
| 34.5° | 1052.5 | 940.9 | 856.7 | 802.6 | 776.4 | 778.4 |
| 35° | 1034.2 | 924.6 | 841.5 | 788.1 | 762.6 | 764.7 |
| 35.5° | 1015.6 | 907.1 | 825.4 | 773.6 | 749.1 | 751.7 |
| 36° | 996.8 | 890.0 | 810.4 | 759.1 | 735.4 | 738.5 |
| 36.5° | 977.2 | 872.7 | 794.7 | 744.8 | 721.7 | 725.0 |
| 37° | 957.4 | 855.4 | 779.4 | 730.3 | 708.0 | 711.3 |
| 37.5° | 937.8 | 838.2 | 763.4 | 716.3 | 694.5 | 698.0 |
| 38° | 918.0 | 820.4 | 748.4 | 701.6 | 680.5 | 684.6 |
| 38.5° | 898.2 | 802.8 | 732.6 | 687.4 | 667.0 | 671.1 |
| 39° | 878.1 | 785.5 | 717.1 | 673.4 | 653.3 | 657.9 |
| 39.5° | 858.0 | 768.2 | 701.3 | 659.1 | 639.8 | 644.4 |
| 40° | 837.9 | 750.4 | 685.8 | 644.4 | 626.3 | 630.9 |
| 40.5° | 817.8 | 732.9 | 670.1 | 629.9 | 612.8 | 617.7 |
| 41° | 798.0 | 715.3 | 654.3 | 615.6 | 599.6 | 604.2 |
| 41.5° | 777.6 | 698.0 | 638.8 | 601.7 | 586.1 | 591.0 |
| 42° | 758.0 | 680.7 | 623.8 | 587.9 | 572.9 | 577.5 |
| 42.5° | 738.2 | 663.5 | 608.5 | 574.4 | 560.0 | 564.5 |
| 43° | 718.6 | 646.2 | 593.5 | 560.7 | 547.0 | 551.3 |
| 43.5° | 699.1 | 628.9 | 578.8 | 547.2 | 534.0 | 538.1 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 642.9 | 578.3 | 535.3 | 507.3 | 494.9 | 499.2 |
| 45.5° | 624.5 | 562.0 | 520.8 | 494.3 | 481.9 | 486.2 |
| 46° | 606.7 | 546.2 | 507.1 | 481.6 | 469.4 | 473.7 |
| 46.5° | 588.7 | 530.2 | 493.1 | 468.7 | 456.7 | 461.0 |
| 47° | 570.9 | 514.9 | 479.3 | 456.2 | 444.5 | 448.3 |
| 47.5° | 554.1 | 499.4 | 465.6 | 443.7 | 432.6 | 435.9 |
| 48° | 537.6 | 484.4 | 451.9 | 431.0 | 420.6 | 423.4 |
| 48.5° | 521.3 | 469.9 | 438.4 | 418.8 | 408.4 | 411.2 |
| 49° | 505.5 | 455.4 | 425.7 | 406.9 | 397.0 | 399.2 |
| 49.5° | 489.8 | 442.0 | 413.0 | 394.7 | 385.5 | 387.3 |
| 50° | 475.0 | 428.0 | 400.3 | 383.0 | 373.8 | 375.3 |
| 50.5° | 460.0 | 414.5 | 387.5 | 371.3 | 362.4 | 363.9 |
| 51° | 445.5 | 401.5 | 375.3 | 359.6 | 351.7 | 352.5 |
| 51.5° | 432.0 | 389.1 | 363.6 | 348.1 | 340.8 | 341.3 |
| 52° | 418.8 | 376.6 | 352.2 | 337.4 | 330.1 | 330.3 |
| 52.5° | 405.3 | 364.4 | 340.8 | 326.5 | 319.4 | 319.6 |
| 53° | 392.6 | 352.7 | 329.6 | 315.6 | 309.0 | 309.2 |
| 53.5° | 380.2 | 341.3 | 318.6 | 304.9 | 298.5 | 298.8 |
| 54° | 368.2 | 330.1 | 307.9 | 294.5 | 288.4 | 289.1 |
| 54.5° | 356.3 | 319.4 | 297.8 | 284.3 | 278.5 | 279.5 |
| 55° | 345.3 | 309.0 | 287.9 | 274.4 | 269.0 | 270.1 |
| 55.5° | 334.1 | 298.8 | 277.7 | 264.7 | 259.4 | 260.9 |
| 56° | 323.5 | 288.9 | 268.3 | 255.3 | 250.5 | 252.5 |
| 56.5° | 313.0 | 279.2 | 258.9 | 246.2 | 241.3 | 244.1 |
| 57° | 303.1 | 269.8 | 249.7 | 237.3 | 232.7 | 236.2 |
| 57.5° | 293.2 | 260.7 | 241.1 | 228.6 | 224.5 | 228.6 |
| 58° | 283.8 | 251.8 | 232.4 | 220.5 | 216.7 | 222.0 |
| 58.5° | 274.4 | 243.4 | 224.3 | 212.3 | 209.3 | 215.4 |
| 59° | 265.2 | 235.0 | 216.1 | 204.7 | 202.2 | 209.5 |
| 59.5° | 256.6 | 226.8 | 208.5 | 197.3 | 195.6 | 204.2 |
| 60° | 247.9 | 218.9 | 200.9 | 190.0 | 189.4 | 200.1 |
| 60.5° | 239.8 | 211.1 | 193.3 | 183.1 | 183.6 | 195.8 |
| 61° | 231.9 | 203.7 | 186.4 | 176.5 | 178.0 | 191.2 |
| 61.5° | 223.8 | 196.3 | 179.3 | 170.1 | 173.2 | 186.7 |
| 62° | 216.4 | 189.4 | 172.7 | 164.3 | 168.9 | 181.8 |
| 62.5° | 208.8 | 182.3 | 166.3 | 158.4 | 164.5 | 177.0 |
| 63° | 201.4 | 175.5 | 159.7 | 152.6 | 160.2 | 172.2 |
| 63.5° | 193.8 | 168.9 | 153.6 | 147.2 | 155.9 | 167.6 |
| 64° | 187.2 | 162.5 | 147.7 | 142.2 | 151.6 | 162.7 |
| 64.5° | 180.3 | 156.4 | 142.2 | 137.3 | 147.2 | 158.2 |
| 65° | 173.4 | 150.3 | 136.6 | 132.5 | 143.2 | 153.6 |
| 65.5° | 166.8 | 144.2 | 131.0 | 127.9 | 139.1 | 149.0 |
| 66° | 160.5 | 138.3 | 125.9 | 123.6 | 134.8 | 144.4 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 141.9 | 121.8 | 111.1 | 111.9 | 122.8 | 131.2 |
| 68° | 135.8 | 116.7 | 106.5 | 108.3 | 118.8 | 127.1 |
| 68.5° | 130.2 | 111.6 | 102.2 | 105.0 | 114.7 | 122.8 |
| 69° | 124.6 | 106.8 | 97.9 | 101.5 | 110.9 | 118.8 |
| 69.5° | 119.0 | 102.0 | 93.8 | 98.2 | 106.8 | 114.4 |
| 70° | 113.7 | 97.1 | 90.3 | 94.9 | 103.2 | 110.4 |
| 70.5° | 108.3 | 92.8 | 86.5 | 91.3 | 99.4 | 106.3 |
| 71° | 103.5 | 88.7 | 82.9 | 88.0 | 95.6 | 102.5 |
| 71.5° | 98.4 | 84.4 | 79.3 | 84.9 | 91.8 | 98.7 |
| 72° | 93.3 | 80.4 | 75.5 | 81.9 | 88.2 | 94.9 |
| 72.5° | 88.7 | 76.3 | 72.2 | 78.8 | 84.9 | 91.8 |
| 73° | 84.2 | 72.2 | 68.9 | 75.8 | 81.4 | 88.0 |
| 73.5° | 79.6 | 68.2 | 65.9 | 72.5 | 78.1 | 84.4 |
| 74° | 75.0 | 64.6 | 62.8 | 69.4 | 74.5 | 80.6 |
| 74.5° | 70.9 | 61.0 | 60.0 | 66.4 | 71.2 | 76.8 |
| 75° | 66.9 | 57.7 | 57.2 | 63.3 | 67.9 | 73.2 |
| 75.5° | 62.8 | 54.4 | 54.4 | 60.5 | 64.6 | 69.9 |
| 76° | 59.0 | 51.1 | 51.6 | 57.5 | 61.3 | 66.4 |
| 76.5° | 55.2 | 48.1 | 49.1 | 54.4 | 58.2 | 63.1 |
| 77° | 51.6 | 45.0 | 46.5 | 51.6 | 54.9 | 59.8 |
| 77.5° | 48.1 | 42.2 | 44.0 | 48.8 | 51.9 | 56.5 |
| 78° | 44.8 | 39.4 | 41.4 | 46.0 | 48.8 | 53.1 |
| 78.5° | 41.2 | 36.6 | 38.9 | 43.2 | 45.8 | 50.1 |
| 79° | 38.1 | 33.8 | 36.6 | 40.4 | 42.7 | 46.8 |
| 79.5° | 35.1 | 31.3 | 34.1 | 37.6 | 39.7 | 43.7 |
| 80° | 32.0 | 29.0 | 31.8 | 35.1 | 36.9 | 40.7 |
| 80.5° | 29.2 | 26.7 | 29.5 | 32.5 | 33.8 | 37.9 |
| 81° | 26.4 | 24.4 | 27.2 | 30.0 | 31.0 | 34.8 |
| 81.5° | 23.9 | 22.1 | 24.7 | 27.5 | 28.2 | 31.8 |
| 82° | 21.6 | 19.8 | 22.6 | 24.9 | 25.4 | 29.0 |
| 82.5° | 19.1 | 17.8 | 20.3 | 22.4 | 22.6 | 26.2 |
| 83° | 16.5 | 15.8 | 18.1 | 20.1 | 19.8 | 23.4 |
| 83.5° | 14.2 | 13.7 | 16.0 | 17.8 | 17.3 | 20.9 |
| 84° | 12.0 | 11.7 | 13.7 | 15.5 | 14.7 | 18.1 |
| 84.5° | 9.9 | 9.9 | 11.7 | 13.5 | 12.5 | 15.3 |
| 85° | 8.1 | 8.1 | 9.7 | 11.2 | 10.4 | 12.7 |
| 85.5° | 6.1 | 6.4 | 7.6 | 9.2 | 8.9 | 10.2 |
| 86° | 4.6 | 4.3 | 5.6 | 7.4 | 7.4 | 8.6 |
| 86.5° | 3.1 | 2.5 | 3.8 | 5.3 | 5.8 | 7.1 |
| 87° | 1.5 | 1.0 | 1.8 | 3.6 | 4.3 | 5.6 |
| 87.5° | 0.5 | 0.3 | 0.5 | 1.5 | 2.8 | 3.8 |
| 88° | 0.0 | 0.0 | 0.0 | 0.3 | 1.5 | 2.8 |
| 88.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.5 |



TEST NUMBER: P776063

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-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° | 1130.3 | 1158.1 | 1210.7 | 1284.9 | 1380.3 | 1470.6 | 1545.8 | 1589.8 | 1594.9 | 1561.6 | 1494.2 |
| 22° | 1117.1 | 1145.1 | 1198.2 | 1273.5 | 1369.9 | 1461.2 | 1538.0 | 1582.7 | 1588.1 | 1554.2 | 1486.1 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 525.1 | 554.4 | 601.9 | 660.1 | 736.2 | 806.1 | 857.2 | 874.0 | 856.5 | 812.2 | 749.1 |
| 44.5° | 512.1 | 541.6 | 588.2 | 645.1 | 719.1 | 785.8 | 834.8 | 850.9 | 833.8 | 789.8 | 728.6 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 139.9 | 147.2 | 148.5 | 161.2 | 183.6 | 202.9 | 222.3 | 233.4 | 228.9 | 210.8 | 182.1 |
| 67° | 135.5 | 142.9 | 143.9 | 155.4 | 176.7 | 195.6 | 214.9 | 225.8 | 221.0 | 203.2 | 175.5 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89° | 0.8 | 2.8 | 6.6 | 7.6 | 7.6 | 6.1 | 3.6 | 1.3 | 0.3 | 0.0 | 0.0 |
| 89.5° | 0.0 | 1.5 | 4.6 | 5.6 | 5.8 | 4.3 | 2.3 | 0.5 | 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





| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1404.2 | 1305.0 | 1219.3 | 1159.3 | 1129.3 | 1130.3 |
| 22° | 1394.0 | 1293.8 | 1207.4 | 1146.4 | 1116.1 | 1117.1 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 680.0 | 611.8 | 564.3 | 533.5 | 520.8 | 525.1 |
| 44.5° | 661.4 | 595.3 | 549.8 | 520.5 | 507.8 | 512.1 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 66.5° | 154.1 | 132.7 | 120.8 | 119.5 | 130.7 | 139.9 |
| 67° | 147.7 | 127.4 | 116.0 | 115.7 | 126.6 | 135.5 |

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 89° | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.8 |
| 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)