

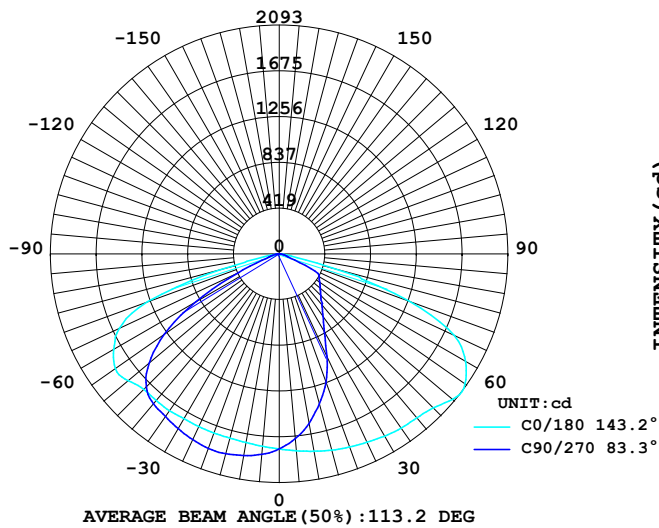
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

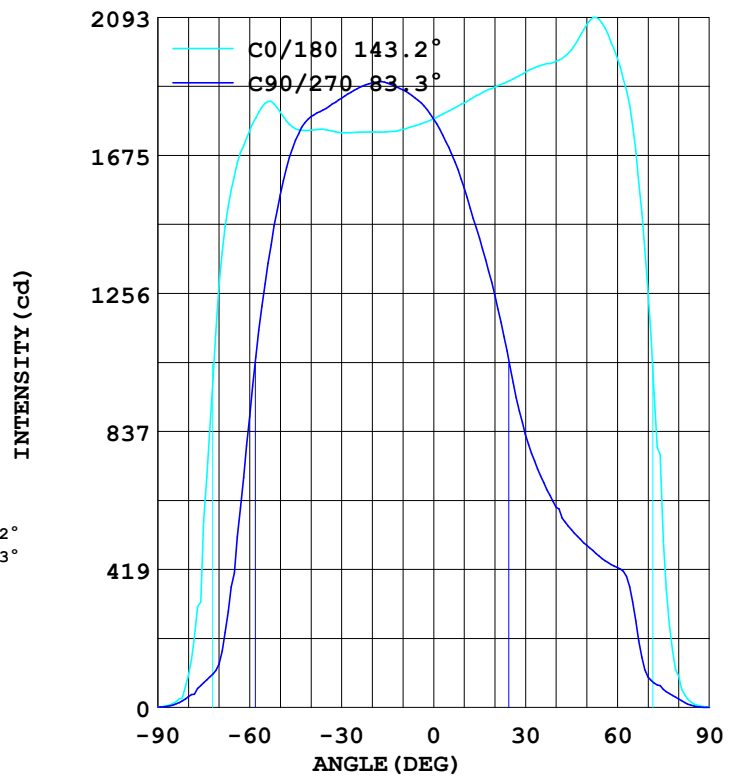
| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |

| | | | | | |
|-------------------|--------|--------------------|--------|-------------------|-------|
| DATA OF LAMP | | Imax(cd) | 2195 | S/MH (C0/180) | 1.51 |
| MODEL | | EFFICIENCY (%) | 100.0 | S/MH (C90/270) | 1.55 |
| NOMINAL POWER(W) | 50 | TOTAL FLUX(lm) | 5817.5 | Voltage(V) | 228.8 |
| RATED VOLTAGE (V) | 230 | EFFICIENCY (lm/W) | 115.2 | Current(A) | 0.227 |
| NOMINAL FLUX(lm) | 5817.6 | η up (%) | 0.0 | Power(W) | 50.50 |
| LAMPS QUANTITY | 1 | η down (%) | 100.0 | Power Factor (PF) | 0.973 |
| TEST VOLTAGE (V) | 228.9 | Effective Flux(lm) | 0.0 | EEL | 0.000 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



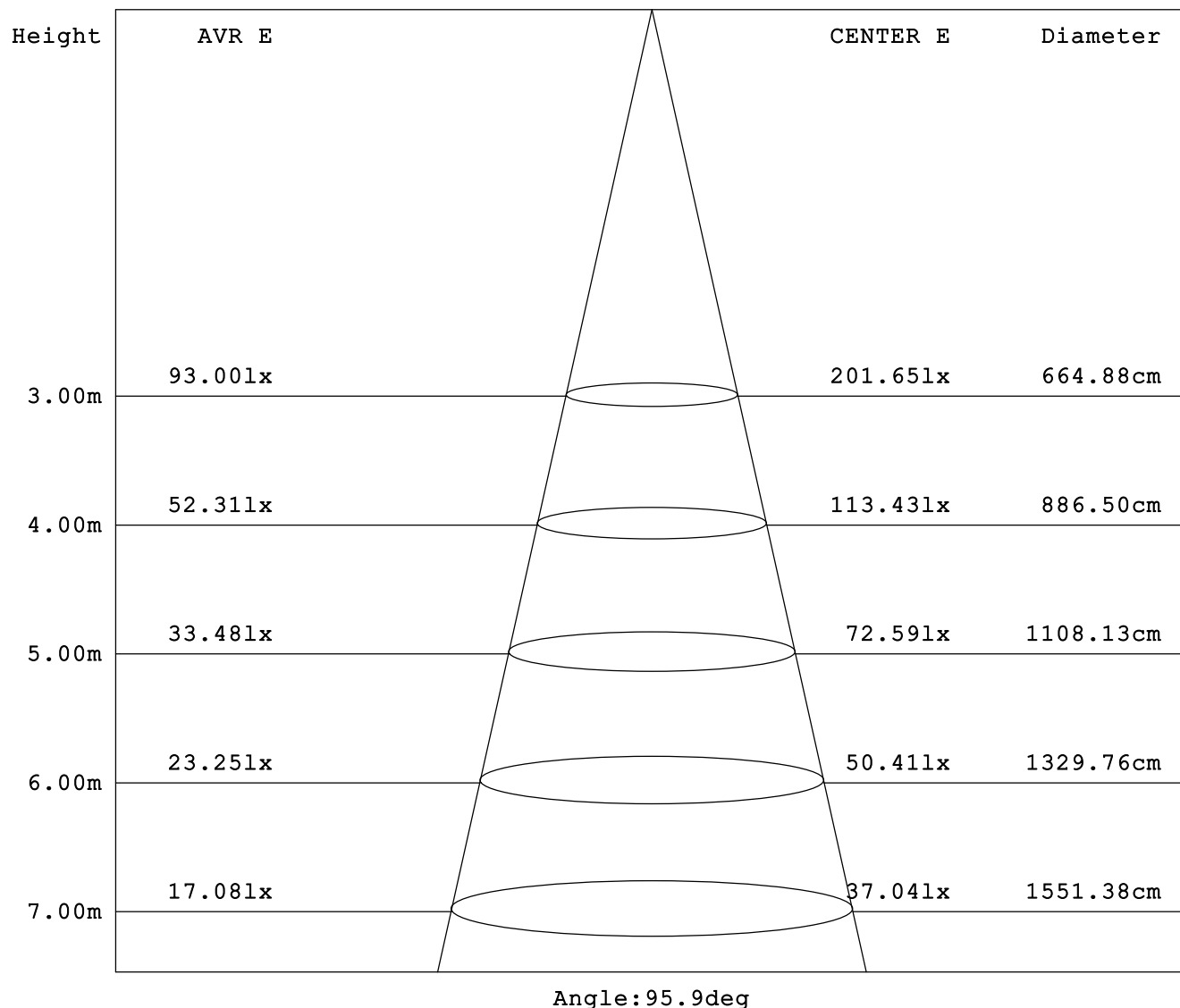
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2020.12.14

Test Set: 6.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020.12.14

Test Set: 6.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ZONAL FLUX DIAGRAM

Report number:

| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Zone | total |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------|-------|
| 5.0 | 1767 | 1815 | 1842 | 1846 | 1809 | 1743 | 1698 | 1713 | 0- 5 | 42.61 | 42.61 |
| 10.0 | 1753 | 1831 | 1873 | 1891 | 1834 | 1691 | 1576 | 1631 | 5- 10 | 126.6 | 169.2 |
| 15.0 | 1746 | 1841 | 1893 | 1925 | 1860 | 1619 | 1423 | 1529 | 10- 15 | 206.9 | 376.1 |
| 20.0 | 1746 | 1845 | 1894 | 1954 | 1881 | 1535 | 1253 | 1429 | 15- 20 | 282.1 | 658.3 |
| 25.0 | 1744 | 1848 | 1876 | 1970 | 1902 | 1430 | 1033 | 1313 | 20- 25 | 349.5 | 1008 |
| 30.0 | 1744 | 1839 | 1848 | 1973 | 1927 | 1312 | 827.3 | 1182 | 25- 30 | 407.2 | 1415 |
| 35.0 | 1752 | 1823 | 1817 | 1967 | 1947 | 1171 | 701.3 | 1022 | 30- 35 | 455.8 | 1871 |
| 40.0 | 1751 | 1806 | 1792 | 1959 | 1960 | 978.2 | 606.8 | 825.2 | 35- 40 | 497.8 | 2369 |
| 45.0 | 1755 | 1787 | 1721 | 1945 | 1995 | 771.3 | 538.9 | 649.5 | 40- 45 | 532.9 | 2902 |
| 50.0 | 1806 | 1760 | 1554 | 1918 | 2071 | 607.1 | 491.8 | 536.0 | 45- 50 | 561.1 | 3463 |
| 55.0 | 1832 | 1716 | 1285 | 1856 | 2076 | 485.6 | 452.3 | 454.3 | 50- 55 | 577.6 | 4041 |
| 60.0 | 1750 | 1582 | 883.9 | 1713 | 1969 | 421.0 | 424.3 | 385.6 | 55- 60 | 560.7 | 4601 |
| 65.0 | 1612 | 1288 | 408.1 | 1413 | 1766 | 349.6 | 320.5 | 328.3 | 60- 65 | 501.2 | 5103 |
| 70.0 | 1282 | 775.2 | 131.3 | 865.7 | 1264 | 241.9 | 92.63 | 236.7 | 65- 70 | 390.0 | 5493 |
| 75.0 | 566.6 | 190.7 | 75.39 | 214.3 | 505.7 | 87.45 | 55.30 | 81.33 | 70- 75 | 229.1 | 5722 |
| 80.0 | 95.88 | 43.51 | 32.68 | 46.30 | 94.20 | 28.54 | 25.81 | 26.73 | 75- 80 | 78.88 | 5801 |
| 85.0 | 12.03 | 11.06 | 7.613 | 11.63 | 10.35 | 8.084 | 4.192 | 7.134 | 80- 85 | 14.80 | 5815 |
| 90.0 | 1.649 | 0.683 | 1.186 | 0.583 | 1.568 | 1.584 | 0.524 | 1.582 | 85- 90 | 2.247 | 5818 |
| 95.0 | | | | | | | | | 90- 95 | | |
| 100.0 | | | | | | | | | 95-100 | | |
| 105.0 | | | | | | | | | 100-105 | | |
| 110.0 | | | | | | | | | 105-110 | | |
| 115.0 | | | | | | | | | 110-115 | | |
| 120.0 | | | | | | | | | 115-120 | | |
| 125.0 | | | | | | | | | 120-125 | | |
| 130.0 | | | | | | | | | 125-130 | | |
| 135.0 | | | | | | | | | 130-135 | | |
| 140.0 | | | | | | | | | 135-140 | | |
| 145.0 | | | | | | | | | 140-145 | | |
| 150.0 | | | | | | | | | 145-150 | | |
| 155.0 | | | | | | | | | 150-155 | | |
| 160.0 | | | | | | | | | 155-160 | | |
| 165.0 | | | | | | | | | 160-165 | | |
| 170.0 | | | | | | | | | 165-170 | | |
| 175.0 | | | | | | | | | 170-175 | | |
| 180.0 | | | | | | | | | 175-180 | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | |

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020.12.14

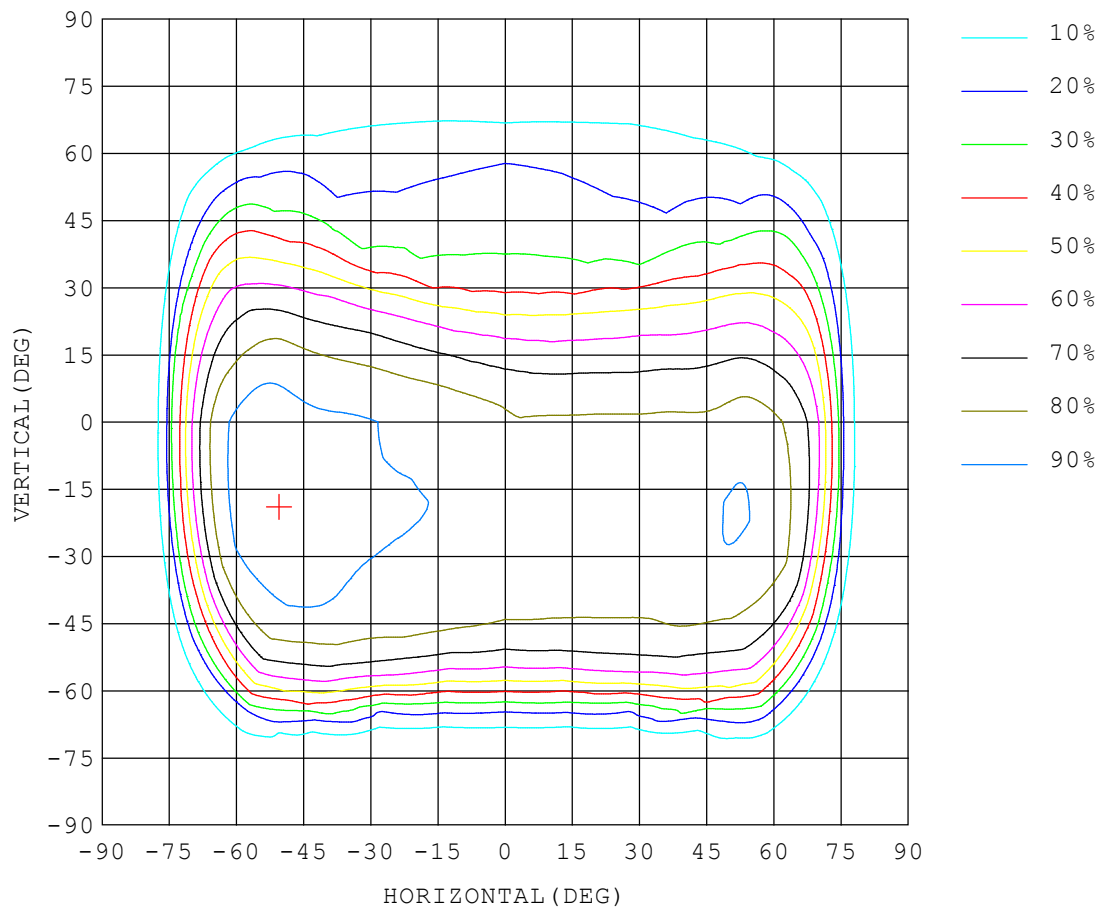
Test Set: 6.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |

UNIT: cd



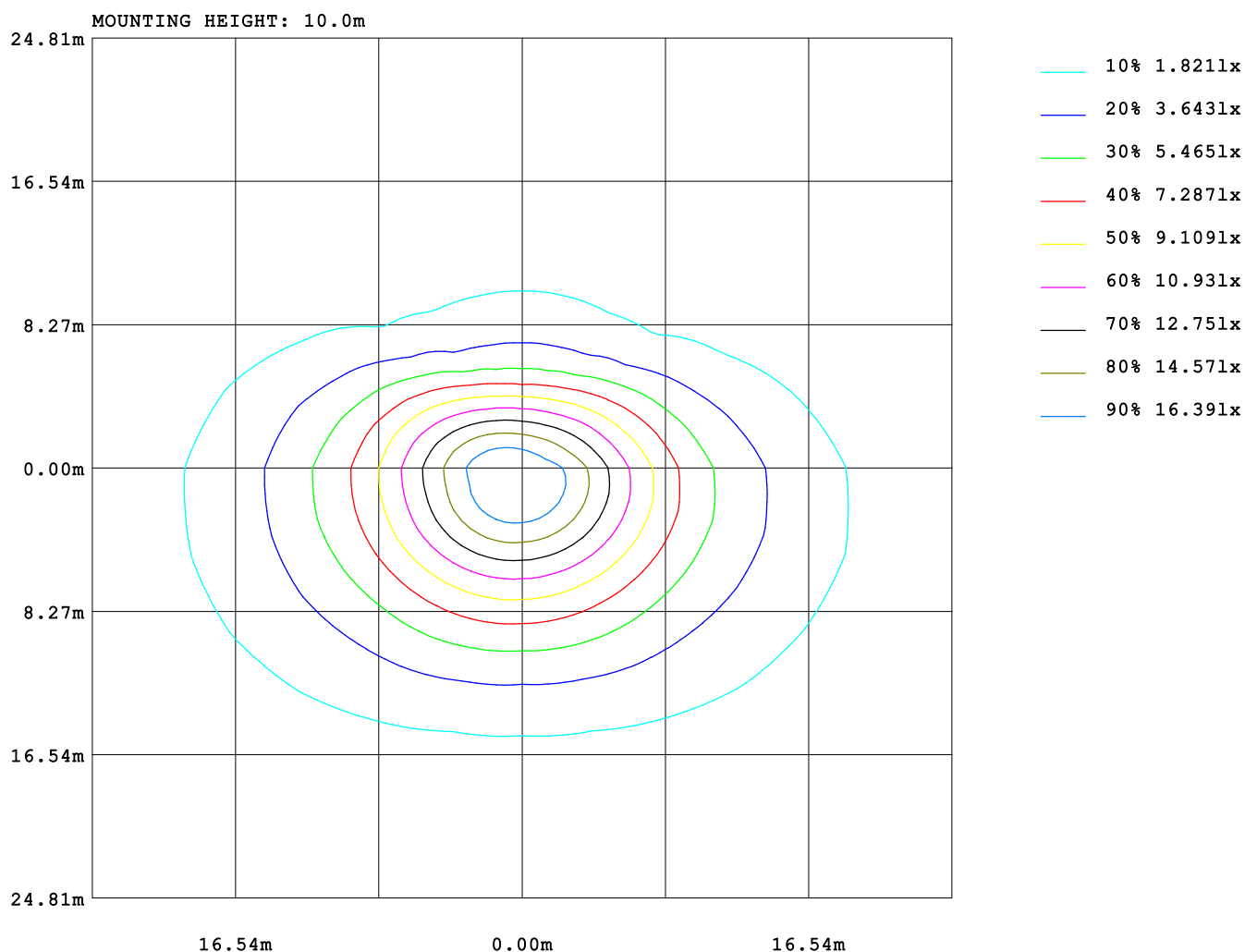
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2020.12.14

Test Set: 6.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOLUX DIAGRAM

Report number:

| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2020.12.14

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 10.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |

UNIT: cd

| C (DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 |
| 5.0 | 1767 | 1786 | 1802 | 1815 | 1825 | 1833 | 1842 | 1846 | 1849 | 1846 | 1840 | 1825 | 1809 | 1788 | 1766 |
| 10.0 | 1753 | 1787 | 1812 | 1831 | 1846 | 1858 | 1873 | 1884 | 1891 | 1891 | 1886 | 1866 | 1834 | 1793 | 1744 |
| 15.0 | 1746 | 1790 | 1818 | 1841 | 1857 | 1873 | 1893 | 1910 | 1922 | 1925 | 1920 | 1900 | 1860 | 1800 | 1718 |
| 20.0 | 1746 | 1798 | 1827 | 1845 | 1863 | 1874 | 1894 | 1919 | 1941 | 1954 | 1954 | 1929 | 1881 | 1803 | 1682 |
| 25.0 | 1744 | 1804 | 1832 | 1848 | 1851 | 1857 | 1876 | 1908 | 1945 | 1970 | 1979 | 1956 | 1902 | 1801 | 1634 |
| 30.0 | 1744 | 1810 | 1833 | 1839 | 1832 | 1829 | 1848 | 1886 | 1935 | 1973 | 1997 | 1985 | 1927 | 1800 | 1584 |
| 35.0 | 1752 | 1822 | 1834 | 1823 | 1806 | 1799 | 1817 | 1858 | 1913 | 1967 | 2011 | 2011 | 1947 | 1788 | 1520 |
| 40.0 | 1751 | 1834 | 1835 | 1806 | 1779 | 1774 | 1792 | 1838 | 1891 | 1959 | 2018 | 2030 | 1960 | 1766 | 1434 |
| 45.0 | 1755 | 1850 | 1832 | 1787 | 1754 | 1728 | 1721 | 1783 | 1871 | 1945 | 2027 | 2070 | 1995 | 1744 | 1331 |
| 50.0 | 1806 | 1903 | 1843 | 1760 | 1697 | 1596 | 1554 | 1640 | 1808 | 1918 | 2063 | 2158 | 2071 | 1725 | 1192 |
| 55.0 | 1832 | 1964 | 1880 | 1716 | 1541 | 1349 | 1285 | 1377 | 1626 | 1856 | 2080 | 2183 | 2076 | 1671 | 1030 |
| 60.0 | 1750 | 1885 | 1784 | 1582 | 1255 | 957 | 884 | 972 | 1327 | 1713 | 1977 | 2082 | 1969 | 1526 | 836 |
| 65.0 | 1612 | 1792 | 1640 | 1288 | 734 | 482 | 408 | 493 | 766 | 1413 | 1809 | 1930 | 1766 | 1305 | 643 |
| 70.0 | 1282 | 1533 | 1351 | 775 | 274 | 154 | 131 | 154 | 279 | 866 | 1471 | 1492 | 1264 | 931 | 452 |
| 75.0 | 567 | 814 | 771 | 191 | 80.5 | 69.2 | 75.3 | 68.9 | 81.8 | 214 | 773 | 793 | 506 | 384 | 197 |
| 80.0 | 95.8 | 126 | 148 | 43.5 | 37.9 | 30.6 | 32.6 | 30.5 | 38.2 | 46.3 | 141 | 123 | 94.2 | 112 | 33.7 |
| 85.0 | 12.0 | 12.1 | 19.3 | 11.0 | 10.4 | 6.12 | 7.61 | 5.91 | 9.98 | 11.6 | 20.8 | 12.8 | 10.3 | 12.1 | 7.51 |
| 90.0 | 1.64 | 1.03 | 1.77 | 0.68 | 1.20 | 0.55 | 1.18 | 0.55 | 1.24 | 0.58 | 1.78 | 1.00 | 1.56 | 2.38 | 1.33 |

Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2020.12.14

Test Set: 6.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

| | | |
|-------------------------|-------------------------|-------------|
| MANUFACTURER: LUCKY SSL | Address: | |
| NAME: FK-FL50-A29N-HB3 | TYPE: 4000K/5000K/5700K | WEIGHT: |
| SPECIFICATION: 2835 LED | DIMENSION: 80X150deg | SERIAL No.: |

UNIT: cd

| C (DEG) γ (DEG) | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 |
|--------------------|------|------|------|------|------|------|------|------|------|
| 0.0 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 | 1785 |
| 5.0 | 1743 | 1723 | 1708 | 1698 | 1697 | 1701 | 1713 | 1730 | 1747 |
| 10.0 | 1691 | 1638 | 1598 | 1576 | 1575 | 1595 | 1631 | 1674 | 1715 |
| 15.0 | 1619 | 1524 | 1457 | 1423 | 1428 | 1465 | 1529 | 1611 | 1687 |
| 20.0 | 1535 | 1394 | 1299 | 1253 | 1265 | 1327 | 1429 | 1551 | 1665 |
| 25.0 | 1430 | 1235 | 1096 | 1033 | 1065 | 1167 | 1313 | 1481 | 1635 |
| 30.0 | 1312 | 1040 | 862 | 827 | 849 | 975 | 1182 | 1398 | 1600 |
| 35.0 | 1171 | 803 | 717 | 701 | 713 | 769 | 1022 | 1316 | 1571 |
| 40.0 | 978 | 659 | 615 | 607 | 614 | 643 | 825 | 1206 | 1526 |
| 45.0 | 771 | 563 | 541 | 539 | 543 | 551 | 650 | 1080 | 1481 |
| 50.0 | 607 | 491 | 485 | 492 | 490 | 483 | 536 | 934 | 1441 |
| 55.0 | 486 | 434 | 440 | 452 | 447 | 430 | 454 | 785 | 1375 |
| 60.0 | 421 | 379 | 402 | 424 | 415 | 381 | 386 | 631 | 1243 |
| 65.0 | 350 | 328 | 350 | 321 | 354 | 339 | 328 | 472 | 1040 |
| 70.0 | 242 | 190 | 124 | 92.6 | 112 | 197 | 237 | 338 | 761 |
| 75.0 | 87.4 | 77.4 | 55.4 | 55.3 | 55.6 | 79.4 | 81.3 | 158 | 381 |
| 80.0 | 28.5 | 25.0 | 26.9 | 25.8 | 26.8 | 23.9 | 26.7 | 26.2 | 98.9 |
| 85.0 | 8.08 | 5.58 | 6.42 | 4.19 | 6.19 | 5.29 | 7.13 | 6.01 | 9.30 |
| 90.0 | 1.58 | 0.66 | 1.26 | 0.52 | 1.27 | 0.67 | 1.58 | 1.33 | 2.36 |

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