

LED Downlight SENSE Series S150R2-25W-940-W



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 27.54 W | |
| SHR Nominal: | 0.75 | Calculated using the TM5 |
| SHR Maximum: | 0.80 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-21

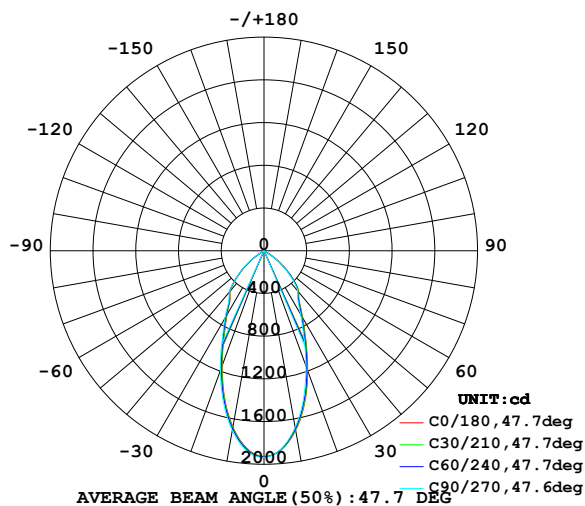
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

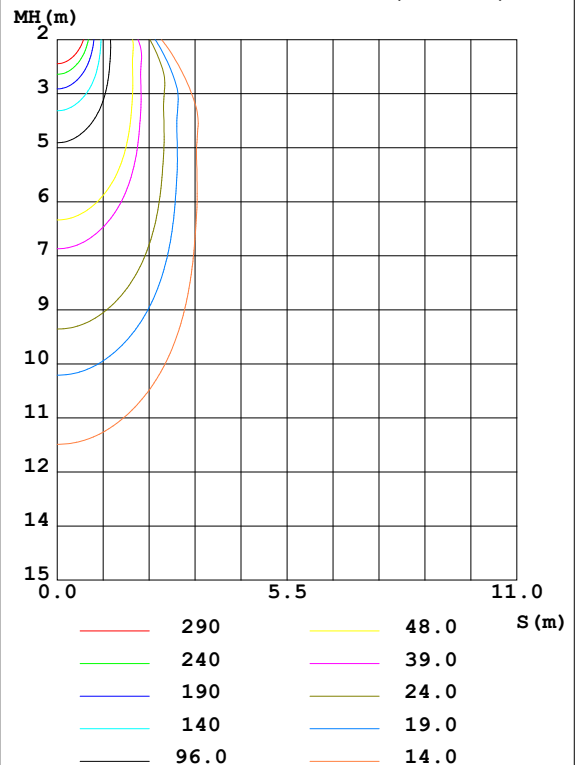
| | | |
|---|---------------------------|-------------|
| Test:U:220.7V I:0.1308A P:27.54W PF:0.9540 Lamp Flux:1757.55x1 lm | | |
| NAME: S150R2-25W-940-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: ϕ 162mm*H188mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 63.82 lm/W | | | |
|-------------------|---------------|----------------------------------|--------|--------------------------|-----------|
| MODEL | CITIZEN-4000K | I _{max} (cd) | 1954 | S/MH (C0/180) | 0.72 |
| NOMINAL POWER (W) | 28 | LOR (%) | 100.0 | S/MH (C90/270) | 0.74 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 1757.5 | η UP, DN (C0-180) | 0.0, 49.7 |
| NOMINAL FLUX (lm) | 1757.55 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 50.3 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE (V) | 220 | η down (%) | 100.0 | CIBSE SHR MAX | 0.80 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



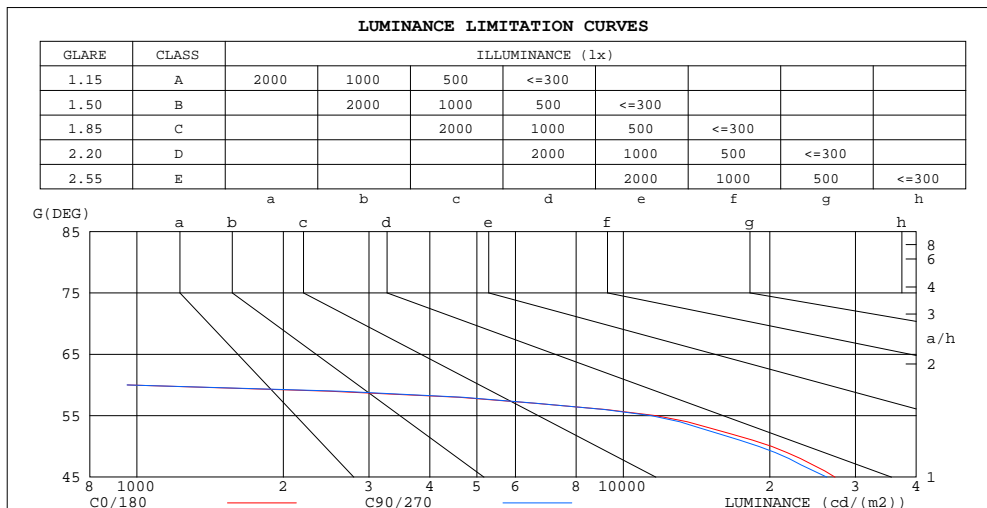
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | Φ lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------------|
| 10 | 1707 | 1702 | 1681 | 1671 | 1677 | 1682 | 1708 | 1735 | 0- 10 | 173.0 | 173.0 | 9.84,9.84 |
| 20 | 1197 | 1188 | 1150 | 1126 | 1145 | 1155 | 1195 | 1225 | 10- 20 | 402.0 | 575.1 | 32.7,32.7 |
| 30 | 725.8 | 713.4 | 686.3 | 673.6 | 696.3 | 705.3 | 732.9 | 745.3 | 20- 30 | 419.4 | 994.4 | 56.6,56.6 |
| 40 | 504.0 | 496.3 | 491.3 | 476.9 | 491.6 | 503.1 | 508.2 | 511.2 | 30- 40 | 361.7 | 1356 | 77.2,77.2 |
| 50 | 267.4 | 265.1 | 251.5 | 246.2 | 243.8 | 234.7 | 245.5 | 253.1 | 40- 50 | 292.1 | 1648 | 93.8,93.8 |
| 60 | 9.847 | 13.53 | 9.826 | 6.773 | 5.651 | 3.800 | 4.458 | 6.562 | 50- 60 | 106.8 | 1755 | 99.9,99.9 |
| 70 | 0.5830 | 0.7136 | 0.6989 | 0.4823 | 0.4166 | 0.4468 | 0.6174 | 0.5826 | 60- 70 | 2.166 | 1757 | 100,100 |
| 80 | 0.1377 | 0.1247 | 0.0985 | 0.0831 | 0.0787 | 0.0875 | 0.0831 | 0.0810 | 70- 80 | 0.2443 | 1757 | 100,100 |
| 90 | 0.1443 | 0.1050 | 0.0853 | 0.0831 | 0.0525 | 0.0525 | 0.0525 | 0.0612 | 80- 90 | 0.1096 | 1758 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(°) | C0/180 | C90/270 |
| 85 | 150 | 51 |
| 80 | 39 | 28 |
| 75 | 42 | 42 |
| 70 | 83 | 99 |
| 65 | 202 | 218 |
| 60 | 956 | 954 |
| 55 | 11684 | 11420 |
| 50 | 20189 | 18990 |
| 45 | 27235 | 26203 |

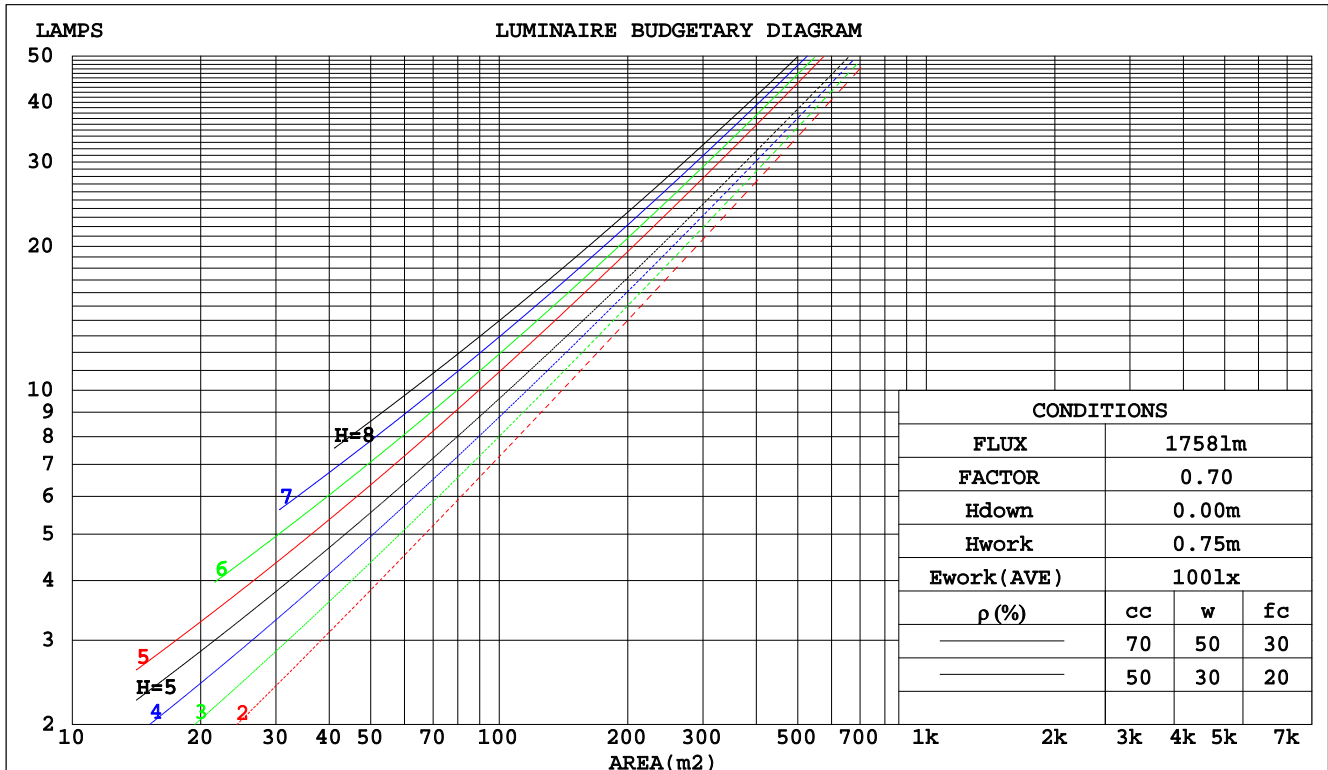
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---------------------------|-------------|
| Test:U:220.7V I:0.1308A P:27.54W PF:0.9540 Lamp Flux:1757.55x1 lm | | |
| NAME: S150R2-25W-940-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: ϕ 162mm*H188mm | |
| MFR.: NEKO LIGHTING AG | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| RCR:Room Cavity Ratio | | | | | | | | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0 | 1.10 | 1.07 | 1.05 | 1.08 | 1.05 | 1.03 | 1.04 | 1.02 | .00 | .00 | .98 | .97 | .96 | .95 | .94 | .92 |
| 2.0 | 1.01 | .97 | .93 | .99 | .95 | .92 | .96 | .93 | .90 | .93 | .90 | .88 | .90 | .88 | .86 | .84 |
| 3.0 | .93 | .88 | .83 | .92 | .87 | .83 | .89 | .85 | .81 | .87 | .83 | .80 | .84 | .81 | .79 | .77 |
| 4.0 | .86 | .80 | .75 | .85 | .79 | .75 | .83 | .78 | .74 | .81 | .76 | .73 | .79 | .75 | .72 | .70 |
| 5.0 | .80 | .73 | .68 | .79 | .73 | .68 | .77 | .71 | .67 | .75 | .70 | .67 | .73 | .69 | .66 | .65 |
| 6.0 | .74 | .67 | .63 | .73 | .67 | .62 | .71 | .66 | .62 | .70 | .65 | .61 | .69 | .64 | .61 | .59 |
| 7.0 | .69 | .62 | .58 | .68 | .62 | .57 | .67 | .61 | .57 | .66 | .60 | .57 | .64 | .60 | .56 | .55 |
| 8.0 | .64 | .58 | .53 | .64 | .57 | .53 | .63 | .57 | .53 | .61 | .56 | .53 | .60 | .56 | .52 | .51 |
| 9.0 | .60 | .54 | .49 | .60 | .54 | .49 | .59 | .53 | .49 | .58 | .53 | .49 | .57 | .52 | .49 | .47 |
| 10.0 | .57 | .50 | .46 | .56 | .50 | .46 | .55 | .50 | .46 | .55 | .49 | .46 | .54 | .49 | .46 | .44 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|---|---------------------------|-------------|
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| SPEC.:4000K | DIM.: ϕ 162mm*H188mm | |
| MFR.: NEKO LIGHTING AG | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .194 | .110 | .035 | .187 | .107 | .034 | .175 | .100 | .032 | .163 | .094 | .030 | .152 | .088 | .028 | | |
| 2.0 | .189 | .104 | .032 | .183 | .101 | .031 | .173 | .096 | .030 | .163 | .091 | .029 | .153 | .087 | .027 | | |
| 3.0 | .182 | .097 | .029 | .177 | .095 | .028 | .167 | .091 | .028 | .159 | .087 | .027 | .151 | .083 | .026 | | |
| 4.0 | .173 | .090 | .026 | .169 | .089 | .026 | .161 | .085 | .026 | .154 | .082 | .025 | .147 | .080 | .024 | | |
| 5.0 | .165 | .084 | .024 | .162 | .083 | .024 | .154 | .080 | .024 | .148 | .078 | .023 | .142 | .076 | .023 | | |
| 6.0 | .157 | .079 | .023 | .154 | .078 | .022 | .148 | .076 | .022 | .142 | .074 | .022 | .137 | .072 | .021 | | |
| 7.0 | .150 | .074 | .021 | .147 | .073 | .021 | .141 | .072 | .021 | .136 | .070 | .020 | .131 | .068 | .020 | | |
| 8.0 | .143 | .070 | .020 | .140 | .069 | .020 | .135 | .068 | .019 | .131 | .066 | .019 | .126 | .065 | .019 | | |
| 9.0 | .136 | .066 | .018 | .134 | .065 | .018 | .130 | .064 | .018 | .125 | .063 | .018 | .121 | .062 | .018 | | |
| 10.0 | .130 | .062 | .017 | .128 | .062 | .017 | .124 | .061 | .017 | .120 | .060 | .017 | .117 | .059 | .017 | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .172 | .157 | .144 | .147 | .135 | .124 | .101 | .093 | .085 | .058 | .054 | .050 | .019 | .017 | .016 | |
| 2.0 | .159 | .132 | .110 | .136 | .114 | .095 | .093 | .079 | .067 | .054 | .046 | .039 | .017 | .015 | .013 | |
| 3.0 | .147 | .114 | .087 | .126 | .098 | .075 | .087 | .068 | .053 | .050 | .040 | .031 | .016 | .013 | .010 | |
| 4.0 | .138 | .099 | .070 | .119 | .086 | .060 | .082 | .060 | .043 | .047 | .035 | .025 | .015 | .011 | .008 | |
| 5.0 | .130 | .088 | .057 | .112 | .076 | .049 | .077 | .053 | .035 | .045 | .031 | .021 | .014 | .010 | .007 | |
| 6.0 | .123 | .079 | .047 | .106 | .068 | .041 | .073 | .048 | .029 | .042 | .028 | .017 | .014 | .009 | .006 | |
| 7.0 | .117 | .072 | .040 | .101 | .062 | .035 | .070 | .044 | .025 | .040 | .026 | .015 | .013 | .008 | .005 | |
| 8.0 | .111 | .066 | .034 | .096 | .057 | .030 | .066 | .040 | .021 | .039 | .024 | .013 | .012 | .008 | .004 | |
| 9.0 | .106 | .061 | .030 | .092 | .053 | .026 | .063 | .037 | .018 | .037 | .022 | .011 | .012 | .007 | .004 | |
| 10.0 | .101 | .056 | .026 | .087 | .049 | .023 | .061 | .034 | .016 | .035 | .020 | .010 | .011 | .007 | .003 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|---------------------------|----------------|------|-------------|------|------|
| Test:U:220.7V I:0.1308A P:27.54W PF:0.9540 Lamp Flux:1757.55x1 lm | | | | | | | | | | |
| NAME: S150R2-25W-940-W | | | | | TYPE:Downlight | | | SERIAL No.: | | |
| SPEC.:4000K | | | | | DIM.: ϕ 162mm*H188mm | | | | | |
| MFR.: NEKO LIGHTING AG | | | | | | | | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 20.4 | 21.4 | 20.6 | 21.6 | 21.8 | 20.2 | 21.3 | 20.4 | 21.4 | 21.6 |
| 3H | 20.2 | 21.2 | 20.4 | 21.4 | 21.6 | 20.0 | 21.0 | 20.3 | 21.2 | 21.4 |
| 4H | 20.1 | 21.0 | 20.4 | 21.2 | 21.5 | 19.9 | 20.9 | 20.2 | 21.1 | 21.3 |
| 6H | 20.0 | 20.9 | 20.3 | 21.1 | 21.4 | 19.8 | 20.7 | 20.1 | 20.9 | 21.2 |
| 8H | 20.0 | 20.8 | 20.3 | 21.0 | 21.3 | 19.8 | 20.6 | 20.1 | 20.9 | 21.1 |
| 12H | 19.9 | 20.7 | 20.2 | 21.0 | 21.3 | 19.7 | 20.5 | 20.1 | 20.8 | 21.1 |
| 4H 2H | 20.2 | 21.1 | 20.4 | 21.3 | 21.5 | 20.0 | 20.9 | 20.3 | 21.2 | 21.4 |
| 3H | 20.0 | 20.8 | 20.3 | 21.0 | 21.3 | 19.8 | 20.6 | 20.1 | 20.9 | 21.2 |
| 4H | 19.9 | 20.6 | 20.2 | 20.9 | 21.2 | 19.7 | 20.4 | 20.1 | 20.7 | 21.1 |
| 6H | 19.8 | 20.4 | 20.2 | 20.8 | 21.1 | 19.6 | 20.3 | 20.0 | 20.6 | 20.9 |
| 8H | 19.7 | 20.3 | 20.1 | 20.7 | 21.0 | 19.6 | 20.2 | 20.0 | 20.5 | 20.9 |
| 12H | 19.7 | 20.2 | 20.1 | 20.6 | 21.0 | 19.5 | 20.1 | 19.9 | 20.4 | 20.8 |
| 8H 4H | 19.7 | 20.3 | 20.1 | 20.7 | 21.0 | 19.6 | 20.2 | 20.0 | 20.5 | 20.9 |
| 6H | 19.6 | 20.1 | 20.1 | 20.5 | 20.9 | 19.5 | 20.0 | 19.9 | 20.3 | 20.8 |
| 8H | 19.6 | 20.0 | 20.0 | 20.4 | 20.9 | 19.4 | 19.8 | 19.9 | 20.3 | 20.7 |
| 12H | 19.5 | 19.9 | 20.0 | 20.3 | 20.8 | 19.4 | 19.7 | 19.8 | 20.2 | 20.6 |
| 12H 4H | 19.7 | 20.2 | 20.1 | 20.6 | 21.0 | 19.5 | 20.1 | 19.9 | 20.4 | 20.8 |
| 6H | 19.6 | 20.0 | 20.0 | 20.4 | 20.9 | 19.4 | 19.8 | 19.9 | 20.3 | 20.7 |
| 8H | 19.5 | 19.9 | 20.0 | 20.3 | 20.8 | 19.4 | 19.7 | 19.8 | 20.2 | 20.6 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 2.5 / - 6.1 | | | | | + 2.5 / - 5.9 | | | | |
| 1.5H | + 1.1 / - 2.7 | | | | | + 1.0 / - 2.5 | | | | |
| 2.0H | + 4.6 / -24.2 | | | | | + 4.5 / -24.1 | | | | |

CIE Pub.117 Corrected 1758 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|---------------------------|-------------|
| Test:U:220.7V I:0.1308A P:27.54W PF:0.9540 Lamp Flux:1757.55x1 lm | | |
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| SPEC.:4000K | DIM.: ϕ 162mm*H188mm | |
| MFR.: NEKO LIGHTING AG | | |

| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 77 | 68 | 63 | 76 | 68 | 63 | 75 | 68 | 63 | 59 |
| 0.80 | 86 | 78 | 73 | 85 | 78 | 73 | 84 | 77 | 73 | 68 |
| 1.00 | 93 | 86 | 81 | 92 | 85 | 81 | 90 | 86 | 80 | 75 |
| 1.25 | 98 | 92 | 87 | 97 | 91 | 87 | 95 | 90 | 86 | 81 |
| 1.50 | 102 | 96 | 92 | 100 | 95 | 91 | 98 | 94 | 90 | 85 |
| 2.00 | 106 | 101 | 97 | 104 | 100 | 96 | 101 | 98 | 95 | 89 |
| 2.50 | 108 | 103 | 100 | 106 | 102 | 99 | 103 | 100 | 97 | 90 |
| 3.00 | 110 | 106 | 102 | 108 | 104 | 101 | 104 | 102 | 99 | 92 |
| 4.00 | 112 | 109 | 106 | 110 | 107 | 105 | 106 | 104 | 102 | 94 |
| 5.00 | 113 | 110 | 108 | 111 | 109 | 106 | 107 | 105 | 103 | 95 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

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ISOCANDELA DIAGRAM

| | | |
|---|---------------------------|-------------|
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Conical surface Flux(90deg):

1520.8 lm

%lum = 86.5%

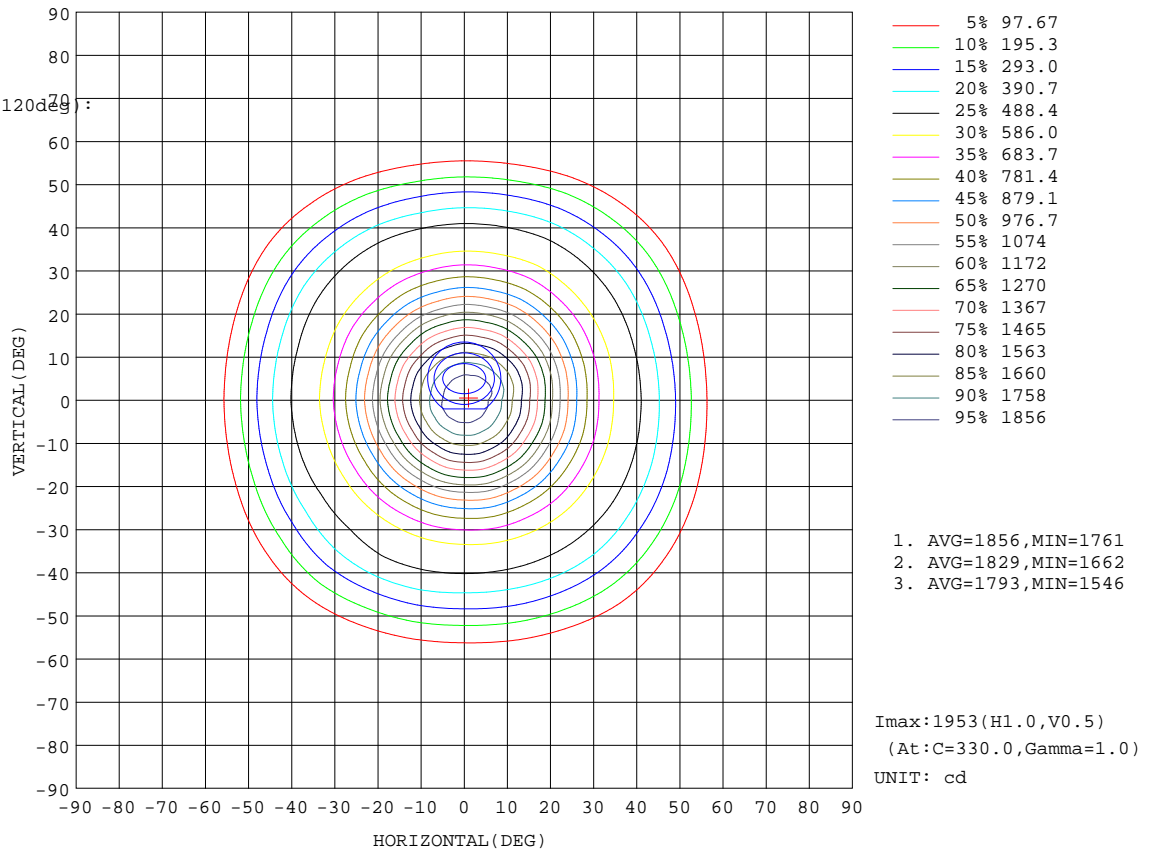
%lamp = 86.5%

Conical surface Flux(120deg):

1755 lm

%lum = 99.9%

%lamp = 99.9%



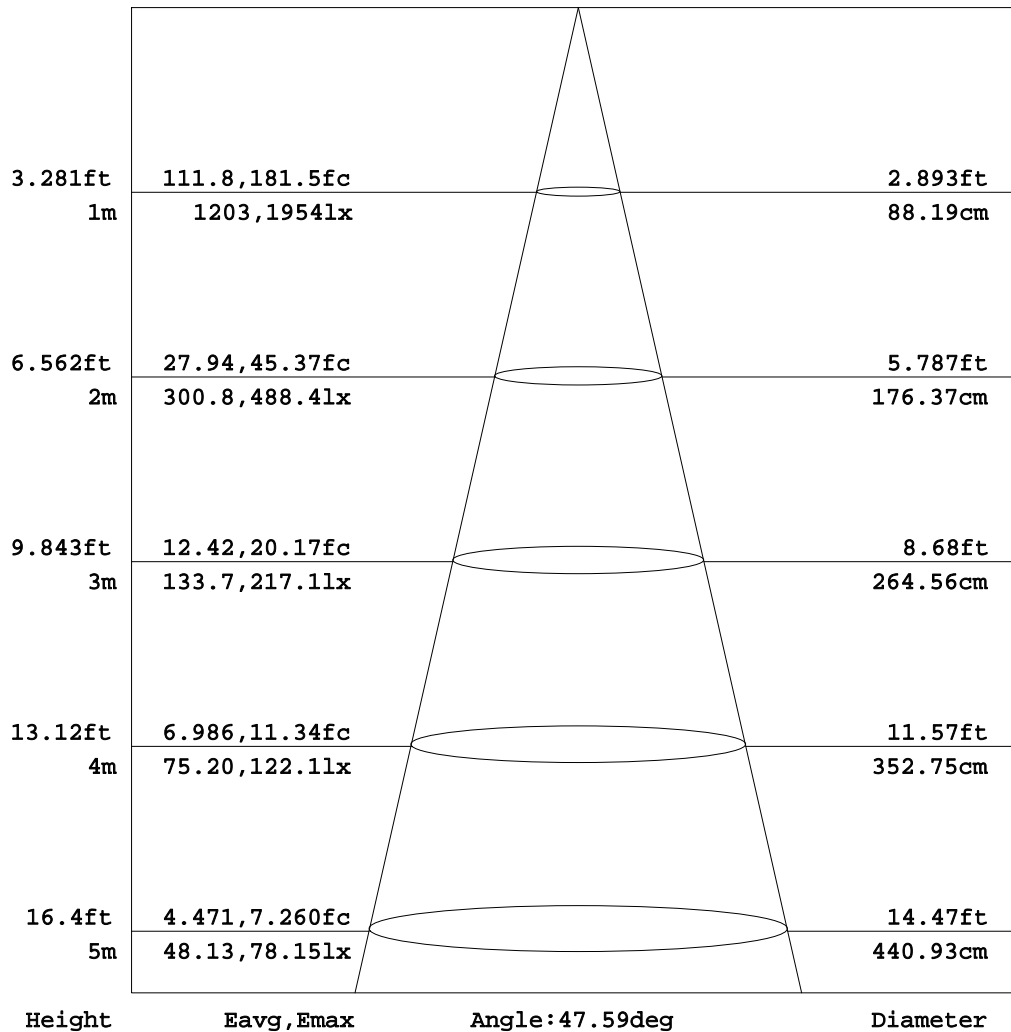
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Humidity:52%
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Remarks:

AAI Figure

| | | |
|---|---------------------------|-------------|
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| SPEC.:4000K | DIM.: ϕ 162mm*H188mm | |
| MFR.: NEKO LIGHTING AG | | |

Flux out:749.3 lm



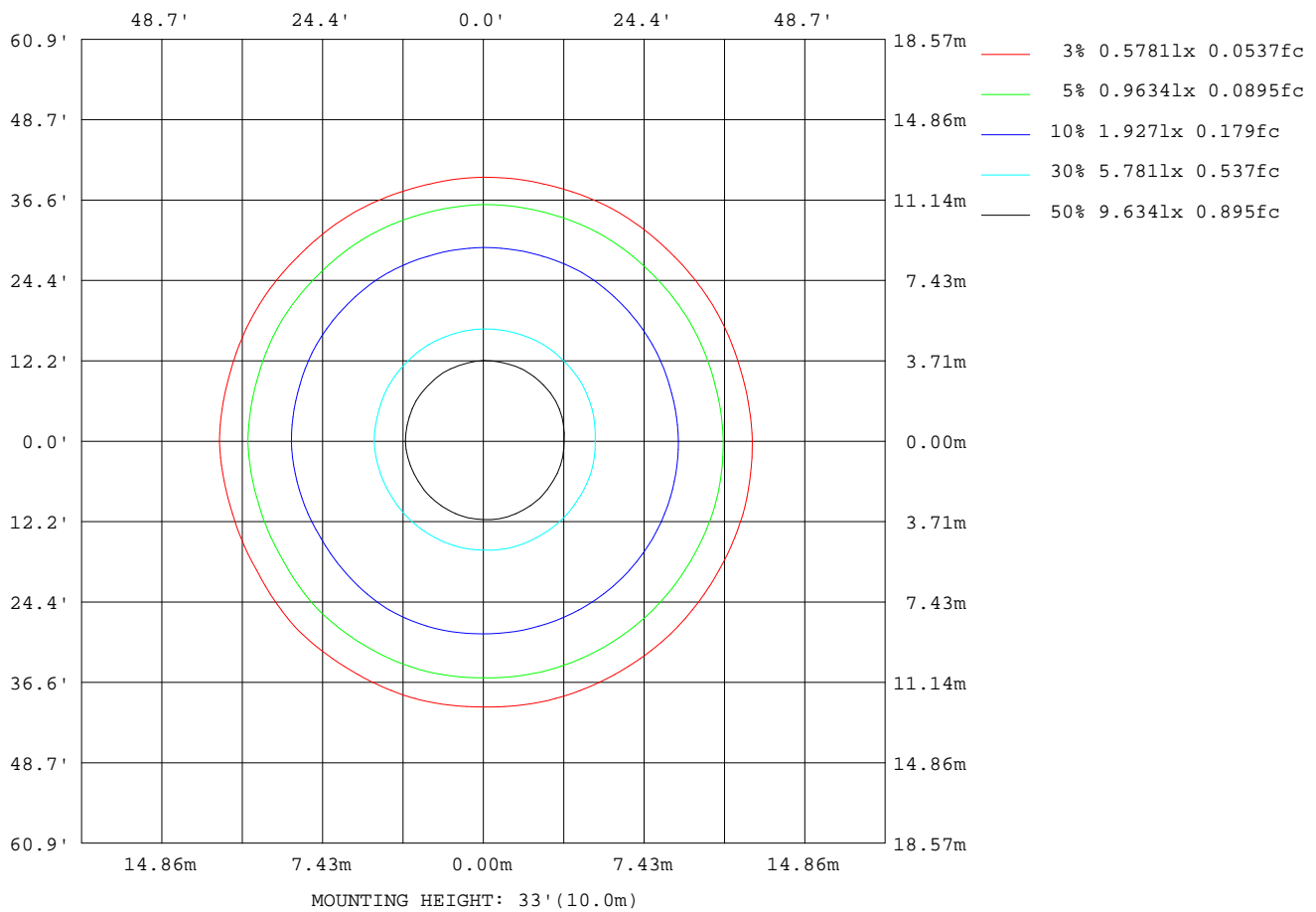
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

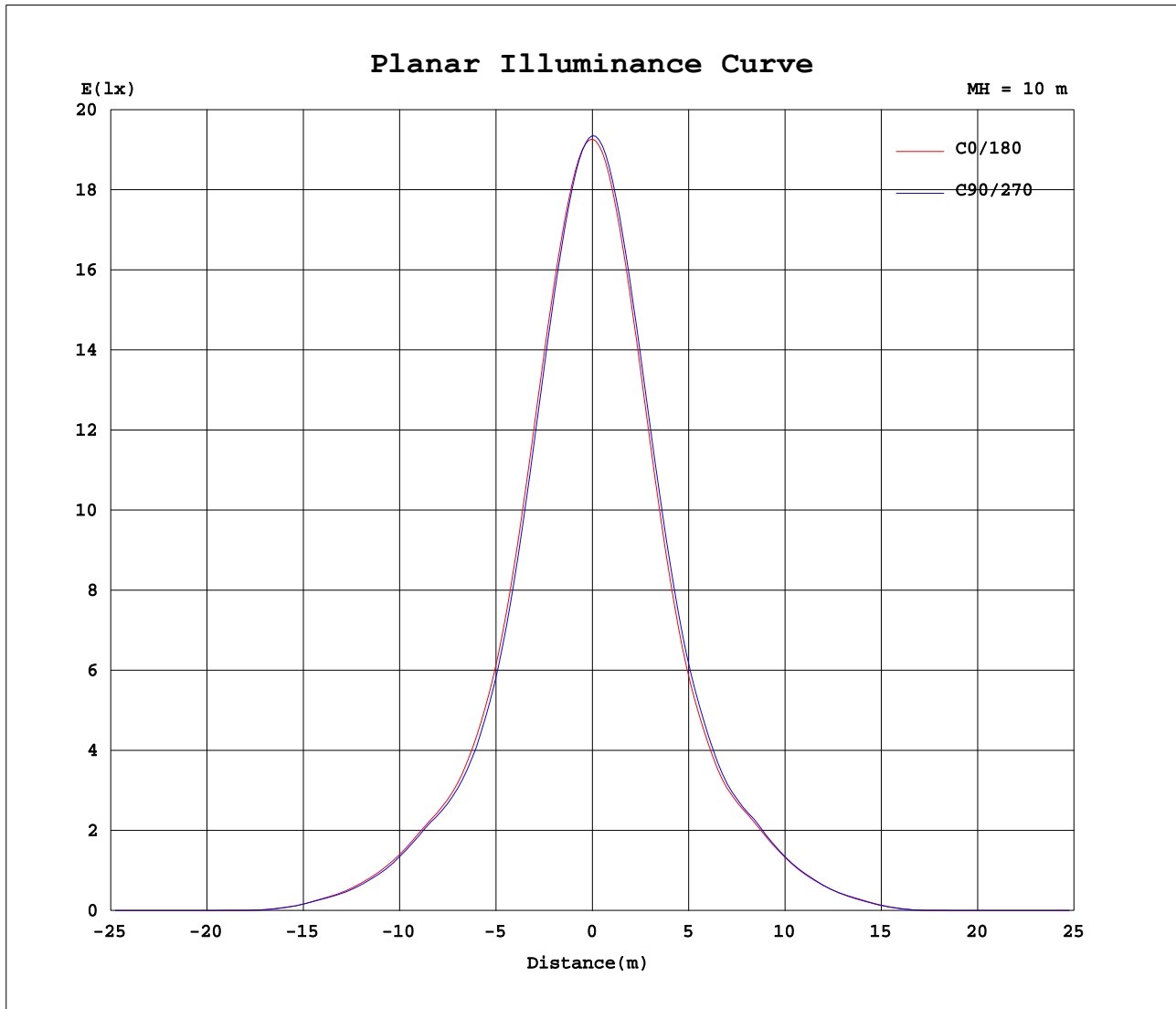
| | | |
|---|---------------------------|-------------|
| Test:U:220.7V I:0.1308A P:27.54W PF:0.9540 Lamp Flux:1757.55x1 lm | | |
| NAME: S150R2-25W-940-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: ϕ 162mm*H188mm | |
| MFR.: NEKO LIGHTING AG | | |



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C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



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C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
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```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

| G/C | 0.0 | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 | 105.0 | 120.0 | 135.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1927 | 1927 | 1928 | 1929 | 1930 | 1933 | 1935 | 1938 | 1943 | 1950 |
| 3.0 | 1907 | 1909 | 1907 | 1908 | 1906 | 1907 | 1905 | 1908 | 1909 | 1915 |
| 6.0 | 1845 | 1847 | 1842 | 1843 | 1837 | 1838 | 1832 | 1834 | 1830 | 1834 |
| 9.0 | 1746 | 1749 | 1742 | 1743 | 1733 | 1733 | 1723 | 1724 | 1715 | 1717 |
| 12.0 | 1622 | 1625 | 1615 | 1616 | 1604 | 1602 | 1589 | 1588 | 1575 | 1574 |
| 15.0 | 1474 | 1478 | 1466 | 1468 | 1453 | 1450 | 1433 | 1430 | 1414 | 1413 |
| 18.0 | 1311 | 1315 | 1302 | 1303 | 1287 | 1284 | 1264 | 1260 | 1243 | 1241 |
| 21.0 | 1141 | 1145 | 1132 | 1132 | 1117 | 1114 | 1093 | 1088 | 1072 | 1070 |
| 24.0 | 979.3 | 982.7 | 970.0 | 968.2 | 955.7 | 952.4 | 933.6 | 928.6 | 915.1 | 912.3 |
| 27.0 | 838.9 | 841.6 | 829.4 | 825.4 | 813.8 | 811.9 | 796.2 | 792.4 | 783.0 | 780.6 |
| 30.0 | 725.8 | 727.9 | 718.1 | 713.4 | 702.5 | 698.6 | 686.3 | 682.7 | 675.1 | 673.6 |
| 33.0 | 629.8 | 629.6 | 623.5 | 620.2 | 611.9 | 606.4 | 596.4 | 592.7 | 585.5 | 580.8 |
| 36.0 | 557.2 | 556.1 | 551.3 | 548.3 | 544.1 | 539.6 | 536.2 | 536.4 | 533.7 | 523.2 |
| 39.0 | 514.6 | 513.6 | 510.0 | 505.9 | 503.7 | 498.9 | 499.6 | 503.4 | 504.4 | 490.1 |
| 42.0 | 471.4 | 473.5 | 472.9 | 470.3 | 464.1 | 457.2 | 454.8 | 460.4 | 460.0 | 445.6 |
| 45.0 | 396.8 | 401.3 | 398.8 | 400.9 | 394.1 | 386.0 | 381.7 | 388.0 | 385.6 | 378.6 |
| 48.0 | 318.9 | 321.7 | 316.2 | 315.5 | 311.6 | 308.4 | 302.0 | 303.6 | 298.6 | 297.4 |
| 51.0 | 239.2 | 242.6 | 238.0 | 238.2 | 233.4 | 231.5 | 225.0 | 227.5 | 220.3 | 220.0 |
| 54.0 | 163.8 | 167.5 | 165.6 | 166.9 | 163.4 | 163.2 | 158.1 | 158.7 | 151.9 | 151.5 |
| 57.0 | 74.08 | 81.38 | 80.39 | 84.96 | 80.43 | 81.51 | 74.59 | 73.64 | 66.89 | 64.58 |
| 60.0 | 9.847 | 11.91 | 11.71 | 13.53 | 11.60 | 12.25 | 9.826 | 9.288 | 6.958 | 6.773 |
| 63.0 | 3.120 | 3.276 | 3.282 | 3.386 | 3.221 | 3.185 | 2.982 | 2.965 | 2.712 | 2.465 |
| 66.0 | 1.343 | 1.528 | 1.566 | 1.725 | 1.657 | 1.644 | 1.528 | 1.471 | 1.296 | 1.198 |
| 69.0 | 0.7144 | 0.7836 | 0.8307 | 0.8906 | 0.9095 | 0.9081 | 0.8395 | 0.7596 | 0.6729 | 0.6111 |
| 72.0 | 0.4097 | 0.3950 | 0.4341 | 0.4386 | 0.4652 | 0.4758 | 0.4390 | 0.3819 | 0.3421 | 0.2990 |
| 75.0 | 0.2236 | 0.1987 | 0.2280 | 0.2074 | 0.2303 | 0.2205 | 0.2215 | 0.1834 | 0.1820 | 0.1485 |
| 78.0 | 0.1466 | 0.1781 | 0.1532 | 0.1304 | 0.1271 | 0.1070 | 0.1249 | 0.0983 | 0.1139 | 0.0896 |
| 81.0 | 0.1421 | 0.1994 | 0.1400 | 0.1219 | 0.0962 | 0.0853 | 0.0962 | 0.0809 | 0.0919 | 0.0831 |
| 84.0 | 0.2313 | 0.3371 | 0.1768 | 0.1134 | 0.0962 | 0.0853 | 0.0919 | 0.0809 | 0.0896 | 0.0831 |
| 87.0 | 0.3472 | 0.3758 | 0.2121 | 0.1050 | 0.0875 | 0.0853 | 0.0896 | 0.0809 | 0.0875 | 0.0831 |
| 90.0 | 0.1443 | 0.1443 | 0.1290 | 0.1050 | 0.0875 | 0.0853 | 0.0853 | 0.0853 | 0.0853 | 0.0831 |

| G/C | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1953 | 1954 | 1927 | 1928 | 1929 | 1933 | 1935 | 1938 | 1943 | 1950 |
| 3.0 | 1915 | 1919 | 1900 | 1900 | 1903 | 1903 | 1909 | 1911 | 1917 | 1920 |
| 6.0 | 1831 | 1837 | 1828 | 1826 | 1833 | 1832 | 1840 | 1843 | 1852 | 1855 |
| 9.0 | 1711 | 1720 | 1719 | 1716 | 1725 | 1724 | 1735 | 1737 | 1749 | 1752 |
| 12.0 | 1566 | 1576 | 1583 | 1580 | 1591 | 1589 | 1602 | 1604 | 1619 | 1623 |
| 15.0 | 1403 | 1414 | 1426 | 1422 | 1435 | 1433 | 1448 | 1451 | 1470 | 1472 |
| 18.0 | 1232 | 1243 | 1258 | 1254 | 1268 | 1267 | 1283 | 1287 | 1306 | 1309 |
| 21.0 | 1061 | 1073 | 1090 | 1086 | 1100 | 1100 | 1116 | 1120 | 1139 | 1143 |
| 24.0 | 905.0 | 917.0 | 933.2 | 928.6 | 942.0 | 943.7 | 959.2 | 962.6 | 980.4 | 983.9 |
| 27.0 | 776.2 | 787.0 | 800.5 | 797.9 | 810.0 | 812.8 | 826.0 | 829.1 | 842.7 | 846.7 |
| 30.0 | 671.1 | 681.6 | 696.3 | 695.0 | 704.7 | 705.3 | 717.3 | 721.1 | 732.9 | 735.4 |
| 33.0 | 578.7 | 587.2 | 600.3 | 598.8 | 605.8 | 607.1 | 615.7 | 619.8 | 629.2 | 634.2 |
| 36.0 | 523.1 | 532.9 | 540.9 | 542.1 | 546.4 | 548.2 | 553.0 | 554.9 | 557.4 | 560.1 |
| 39.0 | 488.9 | 499.6 | 507.9 | 507.4 | 510.7 | 514.0 | 518.2 | 518.7 | 517.7 | 520.7 |
| 42.0 | 433.6 | 439.3 | 450.7 | 449.0 | 455.9 | 455.9 | 459.7 | 455.6 | 460.3 | 463.3 |
| 45.0 | 362.0 | 366.8 | 376.1 | 370.5 | 375.5 | 371.7 | 376.0 | 372.2 | 380.4 | 384.0 |
| 48.0 | 281.3 | 283.8 | 295.5 | 290.0 | 292.9 | 290.1 | 294.7 | 294.7 | 301.2 | 302.8 |
| 51.0 | 204.2 | 204.9 | 217.0 | 210.2 | 210.6 | 206.7 | 211.1 | 209.5 | 216.3 | 217.8 |
| 54.0 | 137.1 | 134.3 | 148.4 | 142.0 | 139.0 | 136.6 | 137.2 | 137.7 | 139.9 | 143.3 |
| 57.0 | 58.34 | 56.71 | 60.16 | 56.65 | 55.03 | 52.04 | 52.46 | 51.72 | 54.46 | 56.43 |
| 60.0 | 5.415 | 5.148 | 5.651 | 4.653 | 4.286 | 3.800 | 4.051 | 4.291 | 4.458 | 4.836 |
| 63.0 | 2.123 | 2.047 | 2.098 | 1.960 | 1.976 | 1.974 | 2.177 | 2.292 | 2.409 | 2.450 |
| 66.0 | 1.077 | 1.039 | 1.010 | 0.9531 | 0.9863 | 1.004 | 1.132 | 1.231 | 1.331 | 1.347 |
| 69.0 | 0.5677 | 0.5326 | 0.5257 | 0.5169 | 0.5170 | 0.5498 | 0.6086 | 0.6878 | 0.7550 | 0.7709 |
| 72.0 | 0.2917 | 0.2641 | 0.2551 | 0.2696 | 0.2661 | 0.2980 | 0.3097 | 0.3616 | 0.3925 | 0.4120 |
| 75.0 | 0.1535 | 0.1354 | 0.1178 | 0.1381 | 0.1288 | 0.1600 | 0.1571 | 0.1841 | 0.1767 | 0.2017 |
| 78.0 | 0.1094 | 0.0896 | 0.0787 | 0.0962 | 0.0831 | 0.1051 | 0.0874 | 0.1095 | 0.0896 | 0.1095 |
| 81.0 | 0.0962 | 0.0831 | 0.0787 | 0.0809 | 0.0853 | 0.0853 | 0.0896 | 0.0875 | 0.0831 | 0.0875 |
| 84.0 | 0.0919 | 0.0831 | 0.0611 | 0.0809 | 0.0655 | 0.0853 | 0.0656 | 0.0896 | 0.0829 | 0.0961 |
| 87.0 | 0.0875 | 0.0831 | 0.0503 | 0.0678 | 0.0525 | 0.0744 | 0.0612 | 0.0766 | 0.0655 | 0.0809 |
| 90.0 | 0.0853 | 0.0831 | 0.0525 | 0.0525 | 0.0503 | 0.0525 | 0.0503 | 0.0547 | 0.0525 | 0.0612 |

| G/C | 300.0 | 315.0 | 330.0 | 345.0 |
|------|-------|-------|-------|-------|
| 0.0 | 1943 | 1950 | 1953 | 1954 |
| 3.0 | 1928 | 1935 | 1940 | 1938 |
| 6.0 | 1867 | 1873 | 1880 | 1876 |
| 9.0 | 1768 | 1774 | 1784 | 1778 |
| 12.0 | 1642 | 1650 | 1661 | 1655 |
| 15.0 | 1495 | 1501 | 1515 | 1506 |
| 18.0 | 1332 | 1338 | 1352 | 1341 |
| 21.0 | 1164 | 1168 | 1178 | 1167 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

| | | | | |
|------|--------|--------|--------|--------|
| 24.0 | 1003 | 1005 | 1012 | 1000.0 |
| 27.0 | 862.5 | 862.9 | 866.8 | 855.5 |
| 30.0 | 748.0 | 745.3 | 747.2 | 738.5 |
| 33.0 | 643.1 | 640.8 | 640.4 | 638.6 |
| 36.0 | 568.0 | 565.6 | 564.6 | 565.7 |
| 39.0 | 527.2 | 524.5 | 521.8 | 521.1 |
| 42.0 | 474.0 | 469.9 | 468.5 | 466.6 |
| 45.0 | 392.3 | 389.7 | 393.3 | 390.9 |
| 48.0 | 308.9 | 307.3 | 311.2 | 311.4 |
| 51.0 | 225.2 | 224.0 | 229.5 | 230.6 |
| 54.0 | 150.8 | 150.2 | 155.4 | 155.8 |
| 57.0 | 61.12 | 63.85 | 68.89 | 70.46 |
| 60.0 | 6.121 | 6.562 | 8.856 | 9.375 |
| 63.0 | 2.704 | 2.745 | 2.888 | 2.845 |
| 66.0 | 1.368 | 1.269 | 1.283 | 1.230 |
| 69.0 | 0.7550 | 0.7095 | 0.6677 | 0.6526 |
| 72.0 | 0.3969 | 0.3857 | 0.3599 | 0.3638 |
| 75.0 | 0.1832 | 0.1972 | 0.1789 | 0.1950 |
| 78.0 | 0.0830 | 0.1073 | 0.0808 | 0.1073 |
| 81.0 | 0.0809 | 0.0766 | 0.0744 | 0.0809 |
| 84.0 | 0.0677 | 0.0895 | 0.0655 | 0.0961 |
| 87.0 | 0.0590 | 0.0656 | 0.0590 | 0.1506 |
| 90.0 | 0.0590 | 0.0612 | 0.0590 | 0.0896 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks: