

LED Tracklight FOCUS S-15W-930-25D



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 15.37 W | |
| SHR Nominal: | 0.00 | Calculated using the TM5 |
| SHR Maximum: | 1.00 | fine grid method. |

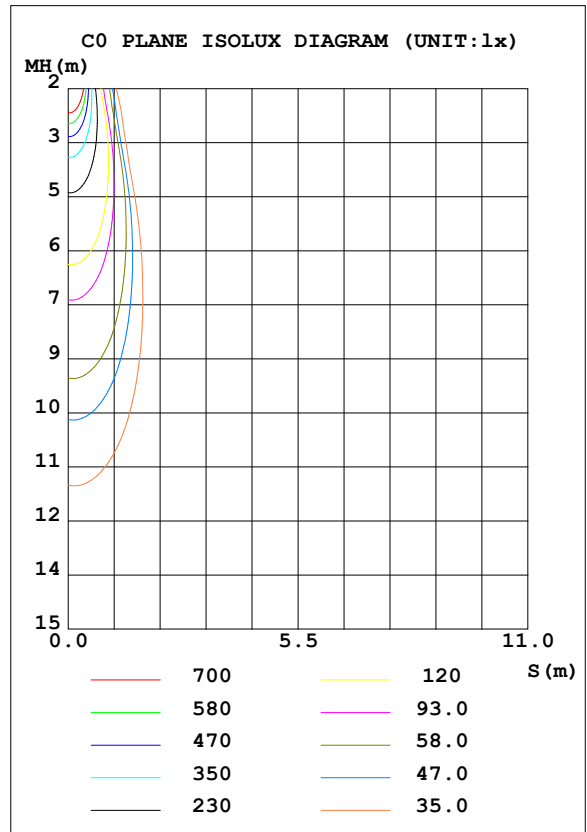
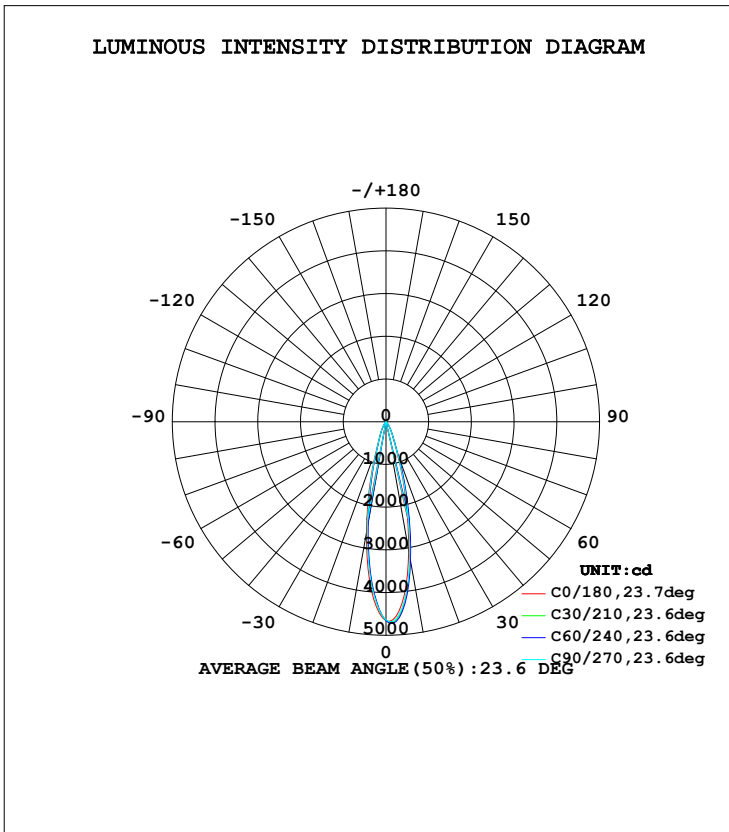
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-28

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:0.0749A P:15.37W PF:0.9294 Lamp Flux:1044.67x1 lm | | |
| NAME: FOCUS S-15W-930-25D | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: φ70mm*H138mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 67.96 lm/W | | | |
|-------------------|---------------|----------------------------------|--------|---------------------|-----------|
| MODEL | CITIZEN-3000K | I _{max} (cd) | 4721 | S/MH (C0/180) | 0.38 |
| NOMINAL POWER (W) | 15 | LOR (%) | 100.0 | S/MH (C90/270) | 0.36 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 1044.7 | η UP, DN (C0-180) | 0.0, 53.3 |
| NOMINAL FLUX (lm) | 1044.67 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 46.7 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE (V) | 220 | η down (%) | 100.0 | CIBSE SHR MAX | 1.00 |



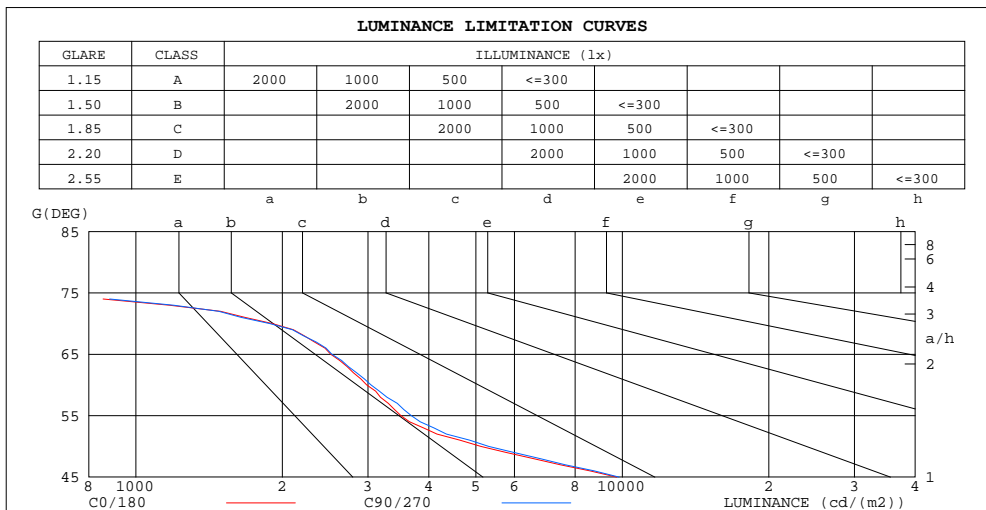
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-28

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 | 3068 | 3328 | 3203 | 2745 | 2644 | 2391 | 2509 | 3010 | 0- 10 | 352.0 | 352.0 | 33.7,33.7 |
| 20 | 738.0 | 884.9 | 793.4 | 597.3 | 575.9 | 503.9 | 530.8 | 703.4 | 10- 20 | 429.1 | 781.1 | 74.8,74.8 |
| 30 | 211.5 | 233.5 | 221.6 | 184.1 | 174.2 | 154.0 | 164.9 | 207.2 | 20- 30 | 165.0 | 946.1 | 90.6,90.6 |
| 40 | 58.05 | 64.71 | 59.11 | 45.78 | 42.63 | 35.48 | 40.74 | 55.19 | 30- 40 | 67.37 | 1014 | 97,97 |
| 50 | 12.66 | 14.42 | 13.13 | 10.82 | 10.26 | 9.266 | 10.10 | 12.40 | 40- 50 | 19.55 | 1033 | 98.9,98.9 |
| 60 | 5.735 | 6.101 | 5.855 | 5.307 | 5.162 | 4.793 | 5.160 | 5.773 | 50- 60 | 6.966 | 1040 | 99.6,99.6 |
| 70 | 2.512 | 2.712 | 2.482 | 1.825 | 1.721 | 1.603 | 1.920 | 2.435 | 60- 70 | 3.771 | 1044 | 99.9,99.9 |
| 80 | 0.1576 | 0.1660 | 0.1773 | 0.1354 | 0.1157 | 0.1204 | 0.1026 | 0.1488 | 70- 80 | 0.7821 | 1045 | 100,100 |
| 90 | 0.0437 | 0.0481 | 0.0568 | 0.0481 | 0.0284 | 0.0306 | 0.0262 | 0.0306 | 80- 90 | 0.0843 | 1045 | 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(DEG) | C0/180 | C90/270 |
| 85 | 268 | 313 |
| 80 | 236 | 265 |
| 75 | 694 | 736 |
| 70 | 1909 | 1886 |
| 65 | 2515 | 2527 |
| 60 | 2982 | 3044 |
| 55 | 3508 | 3684 |
| 50 | 5118 | 5312 |
| 45 | 9741 | 9854 |

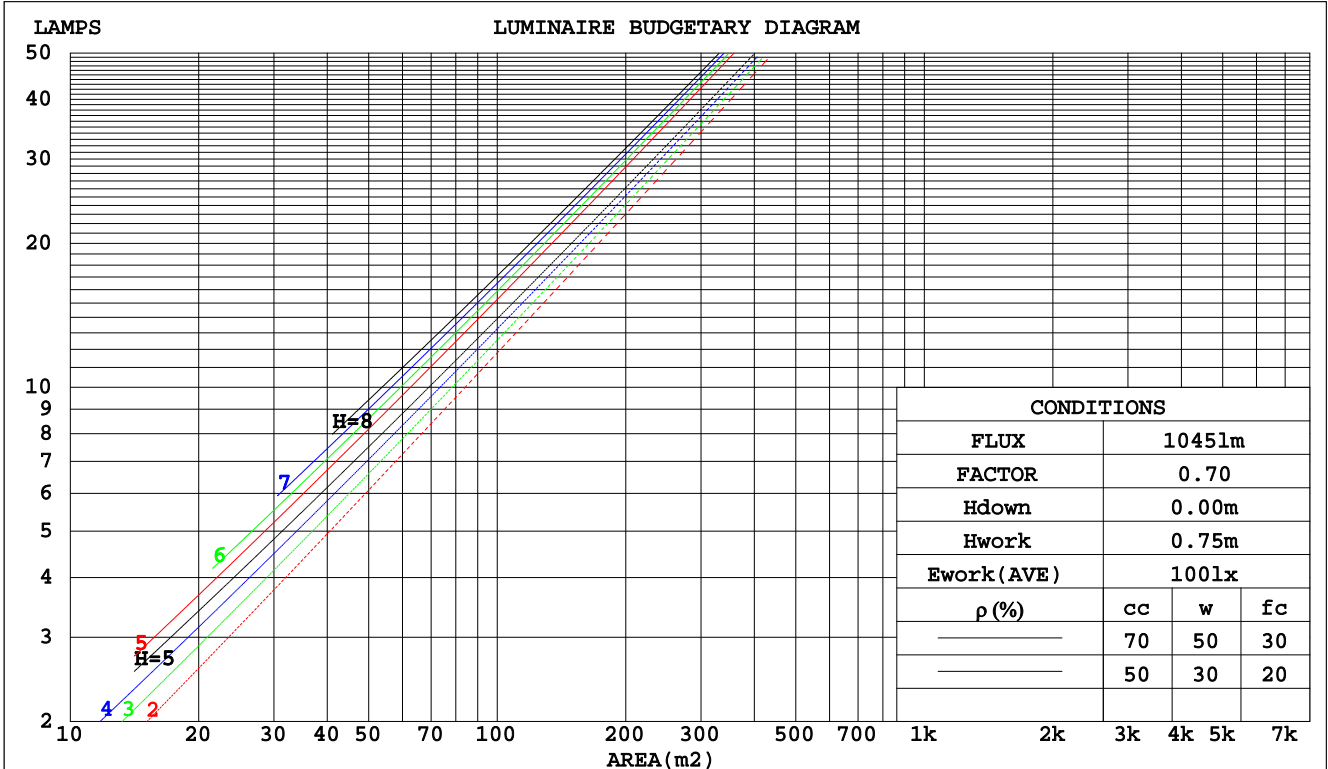
C Range: 0 - 360DEG
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Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------------------|-------------|
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| NAME: FOCUS S-15W-930-25D | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: φ70mm*H138mm | |
| MFR.: NEKO LIGHTING AG | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρw | | | | | | | | | | | | | | | | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 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 | 1.13 | 1.11 | 1.09 | 1.10 | 1.09 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 | .99 | .99 | .98 | .96 |
| 2.0 | 1.07 | 1.04 | 1.01 | 1.05 | 1.02 | 1.00 | 1.02 | .99 | .98 | .99 | .97 | .96 | .97 | .95 | .94 | .92 |
| 3.0 | 1.02 | .98 | .95 | 1.01 | .97 | .94 | .98 | .95 | .93 | .96 | .94 | .92 | .94 | .92 | .90 | .89 |
| 4.0 | .98 | .94 | .90 | .97 | .93 | .90 | .95 | .91 | .89 | .93 | .90 | .88 | .91 | .89 | .87 | .86 |
| 5.0 | .94 | .90 | .86 | .93 | .89 | .86 | .91 | .88 | .85 | .90 | .87 | .85 | .88 | .86 | .84 | .83 |
| 6.0 | .90 | .86 | .83 | .90 | .86 | .83 | .88 | .85 | .82 | .87 | .84 | .82 | .86 | .83 | .81 | .80 |
| 7.0 | .87 | .83 | .80 | .87 | .82 | .80 | .85 | .82 | .79 | .84 | .81 | .79 | .83 | .81 | .78 | .77 |
| 8.0 | .84 | .80 | .77 | .84 | .80 | .77 | .83 | .79 | .77 | .82 | .79 | .76 | .81 | .78 | .76 | .75 |
| 9.0 | .82 | .77 | .74 | .81 | .77 | .74 | .80 | .77 | .74 | .80 | .76 | .74 | .79 | .76 | .74 | .73 |
| 10.0 | .79 | .75 | .72 | .79 | .75 | .72 | .78 | .74 | .72 | .78 | .74 | .72 | .77 | .74 | .72 | .71 |



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 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-07-28

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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| MFR.: NEKO LIGHTING AG | | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .143 | .081 | .026 | .136 | .078 | .025 | .124 | .071 | .023 | .112 | .065 | .021 | .102 | .059 | .019 | |
| 2.0 | .133 | .073 | .022 | .128 | .070 | .022 | .117 | .065 | .020 | .108 | .061 | .019 | .099 | .056 | .018 | |
| 3.0 | .124 | .066 | .020 | .120 | .064 | .019 | .111 | .060 | .018 | .103 | .057 | .017 | .096 | .053 | .016 | |
| 4.0 | .117 | .061 | .018 | .113 | .059 | .017 | .106 | .056 | .017 | .099 | .053 | .016 | .093 | .050 | .015 | |
| 5.0 | .110 | .056 | .016 | .107 | .055 | .016 | .101 | .052 | .015 | .095 | .050 | .015 | .090 | .048 | .014 | |
| 6.0 | .104 | .052 | .015 | .102 | .051 | .015 | .096 | .049 | .014 | .091 | .047 | .014 | .087 | .046 | .014 | |
| 7.0 | .099 | .049 | .014 | .097 | .048 | .014 | .092 | .047 | .013 | .088 | .045 | .013 | .084 | .043 | .013 | |
| 8.0 | .095 | .046 | .013 | .092 | .045 | .013 | .088 | .044 | .013 | .084 | .043 | .012 | .081 | .041 | .012 | |
| 9.0 | .090 | .044 | .012 | .088 | .043 | .012 | .085 | .042 | .012 | .081 | .041 | .012 | .078 | .040 | .011 | |
| 10.0 | .087 | .041 | .012 | .085 | .041 | .011 | .082 | .040 | .011 | .079 | .039 | .011 | .076 | .038 | .011 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 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 | .169 | .158 | .148 | .144 | .135 | .127 | .099 | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .017 | |
| 2.0 | .151 | .133 | .117 | .129 | .114 | .101 | .089 | .079 | .071 | .051 | .046 | .041 | .016 | .015 | .013 | |
| 3.0 | .136 | .113 | .095 | .117 | .098 | .082 | .080 | .068 | .058 | .046 | .040 | .034 | .015 | .013 | .011 | |
| 4.0 | .124 | .098 | .078 | .107 | .085 | .068 | .073 | .059 | .048 | .042 | .035 | .028 | .014 | .011 | .009 | |
| 5.0 | .114 | .086 | .065 | .098 | .074 | .057 | .067 | .052 | .040 | .039 | .030 | .024 | .013 | .010 | .008 | |
| 6.0 | .105 | .076 | .055 | .090 | .066 | .048 | .062 | .046 | .034 | .036 | .027 | .020 | .012 | .009 | .007 | |
| 7.0 | .098 | .068 | .047 | .084 | .059 | .041 | .058 | .041 | .029 | .034 | .024 | .017 | .011 | .008 | .006 | |
| 8.0 | .091 | .061 | .040 | .079 | .053 | .035 | .054 | .037 | .025 | .032 | .022 | .015 | .010 | .007 | .005 | |
| 9.0 | .086 | .056 | .035 | .074 | .048 | .031 | .051 | .034 | .022 | .030 | .020 | .013 | .010 | .007 | .004 | |
| 10.0 | .081 | .051 | .031 | .070 | .044 | .027 | .048 | .031 | .019 | .028 | .018 | .011 | .009 | .006 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-07-28

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:0.0749A P:15.37W PF:0.9294 Lamp Flux:1044.67x1 lm | | |
| NAME: FOCUS S-15W-930-25D | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: φ70mm*H138mm | |
| 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 | 13.3 | 14.0 | 13.5 | 14.1 | 14.3 | 13.4 | 14.1 | 13.7 | 14.3 | 14.4 |
| 3H | 13.3 | 13.9 | 13.5 | 14.1 | 14.3 | 13.4 | 14.1 | 13.7 | 14.3 | 14.4 |
| 4H | 13.2 | 13.8 | 13.5 | 14.0 | 14.2 | 13.4 | 14.0 | 13.6 | 14.2 | 14.4 |
| 6H | 13.1 | 13.7 | 13.4 | 13.9 | 14.2 | 13.3 | 13.9 | 13.6 | 14.1 | 14.3 |
| 8H | 13.1 | 13.6 | 13.4 | 13.9 | 14.1 | 13.2 | 13.8 | 13.5 | 14.0 | 14.3 |
| 12H | 13.0 | 13.6 | 13.3 | 13.8 | 14.1 | 13.2 | 13.7 | 13.5 | 14.0 | 14.3 |
| 4H 2H | 13.1 | 13.8 | 13.4 | 14.0 | 14.2 | 13.3 | 13.9 | 13.6 | 14.1 | 14.3 |
| 3H | 13.2 | 13.7 | 13.5 | 14.0 | 14.2 | 13.3 | 13.9 | 13.6 | 14.1 | 14.4 |
| 4H | 13.1 | 13.6 | 13.4 | 13.9 | 14.2 | 13.3 | 13.7 | 13.6 | 14.0 | 14.3 |
| 6H | 13.0 | 13.4 | 13.4 | 13.8 | 14.1 | 13.2 | 13.6 | 13.5 | 13.9 | 14.3 |
| 8H | 12.9 | 13.3 | 13.3 | 13.7 | 14.1 | 13.1 | 13.5 | 13.5 | 13.9 | 14.2 |
| 12H | 12.9 | 13.3 | 13.3 | 13.6 | 14.0 | 13.0 | 13.4 | 13.4 | 13.8 | 14.2 |
| 8H 4H | 13.0 | 13.4 | 13.3 | 13.7 | 14.1 | 13.1 | 13.5 | 13.5 | 13.9 | 14.2 |
| 6H | 12.8 | 13.2 | 13.3 | 13.6 | 14.0 | 13.0 | 13.3 | 13.4 | 13.7 | 14.1 |
| 8H | 12.8 | 13.1 | 13.2 | 13.5 | 13.9 | 12.9 | 13.2 | 13.4 | 13.7 | 14.1 |
| 12H | 12.7 | 13.0 | 13.2 | 13.4 | 13.9 | 12.9 | 13.1 | 13.4 | 13.6 | 14.0 |
| 12H 4H | 12.9 | 13.3 | 13.3 | 13.6 | 14.0 | 13.1 | 13.4 | 13.5 | 13.8 | 14.2 |
| 6H | 12.8 | 13.1 | 13.2 | 13.5 | 13.9 | 12.9 | 13.2 | 13.4 | 13.7 | 14.1 |
| 8H | 12.7 | 13.0 | 13.2 | 13.4 | 13.9 | 12.9 | 13.1 | 13.4 | 13.6 | 14.0 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 2.5 / - 5.6 | | | | | + 2.6 / - 5.5 | | | | |
| 1.5H | + 4.5 / - 4.9 | | | | | + 4.5 / - 4.8 | | | | |
| 2.0H | + 4.1 / - 2.2 | | | | | + 4.0 / - 2.2 | | | | |

CIE Pub.117 Corrected 1045 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
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UTILIZATION FACTORS TABLE

| | | |
|---|--------------------|-------------|
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| SPEC.:3000K | DIM.: φ70mm*H138mm | |
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| 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 | 90 | 84 | 80 | 89 | 84 | 80 | 88 | 83 | 80 | 77 |
| 0.80 | 97 | 91 | 88 | 96 | 91 | 88 | 95 | 90 | 87 | 84 |
| 1.00 | 101 | 96 | 92 | 100 | 95 | 92 | 98 | 95 | 91 | 88 |
| 1.25 | 105 | 100 | 96 | 103 | 99 | 96 | 102 | 98 | 95 | 91 |
| 1.50 | 107 | 103 | 100 | 106 | 102 | 99 | 104 | 100 | 98 | 94 |
| 2.00 | 109 | 105 | 103 | 108 | 104 | 102 | 105 | 102 | 100 | 95 |
| 2.50 | 111 | 107 | 105 | 109 | 106 | 104 | 106 | 104 | 102 | 96 |
| 3.00 | 112 | 109 | 107 | 111 | 108 | 106 | 107 | 105 | 103 | 97 |
| 4.00 | 114 | 112 | 110 | 112 | 110 | 108 | 109 | 107 | 106 | 99 |
| 5.00 | 115 | 113 | 112 | 113 | 112 | 110 | 109 | 108 | 107 | 100 |
| 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):

1026.3 lm

%lum = 98.2%

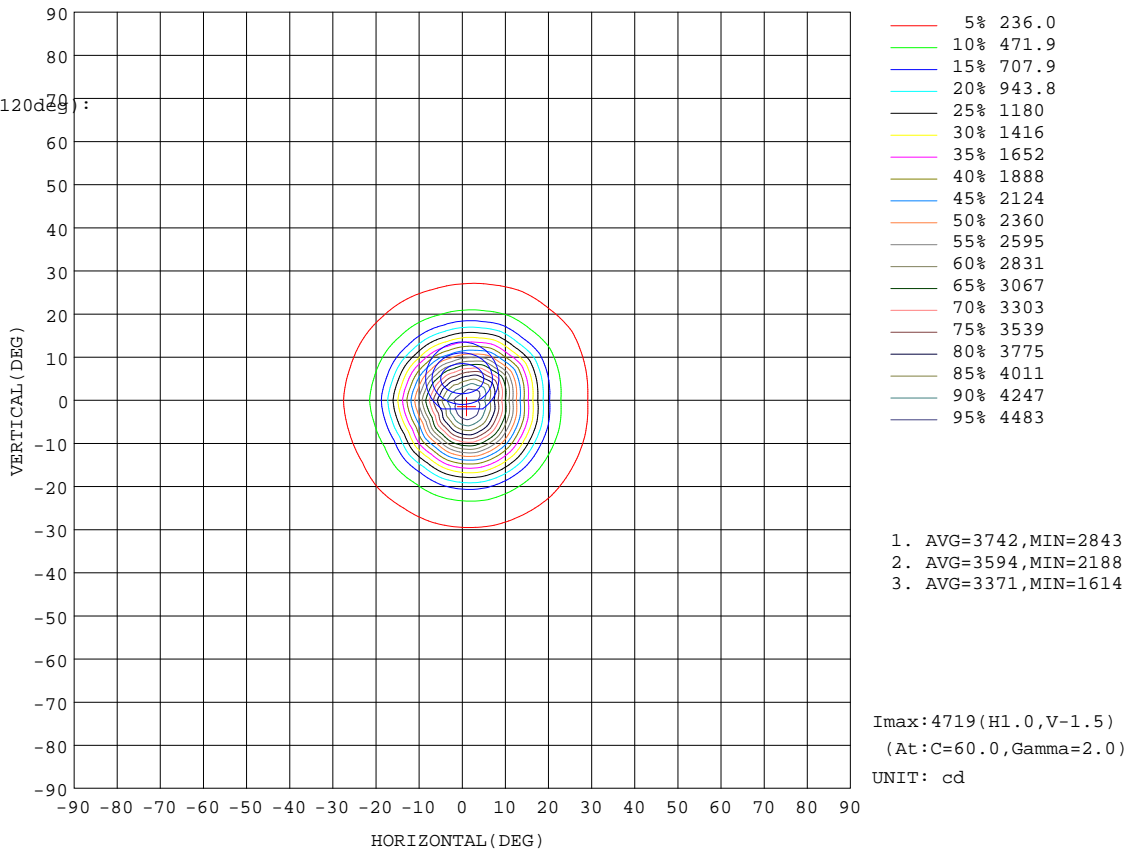
%lamp = 98.2%

Conical surface Flux(120deg):

1040 lm

%lum = 99.6%

%lamp = 99.6%

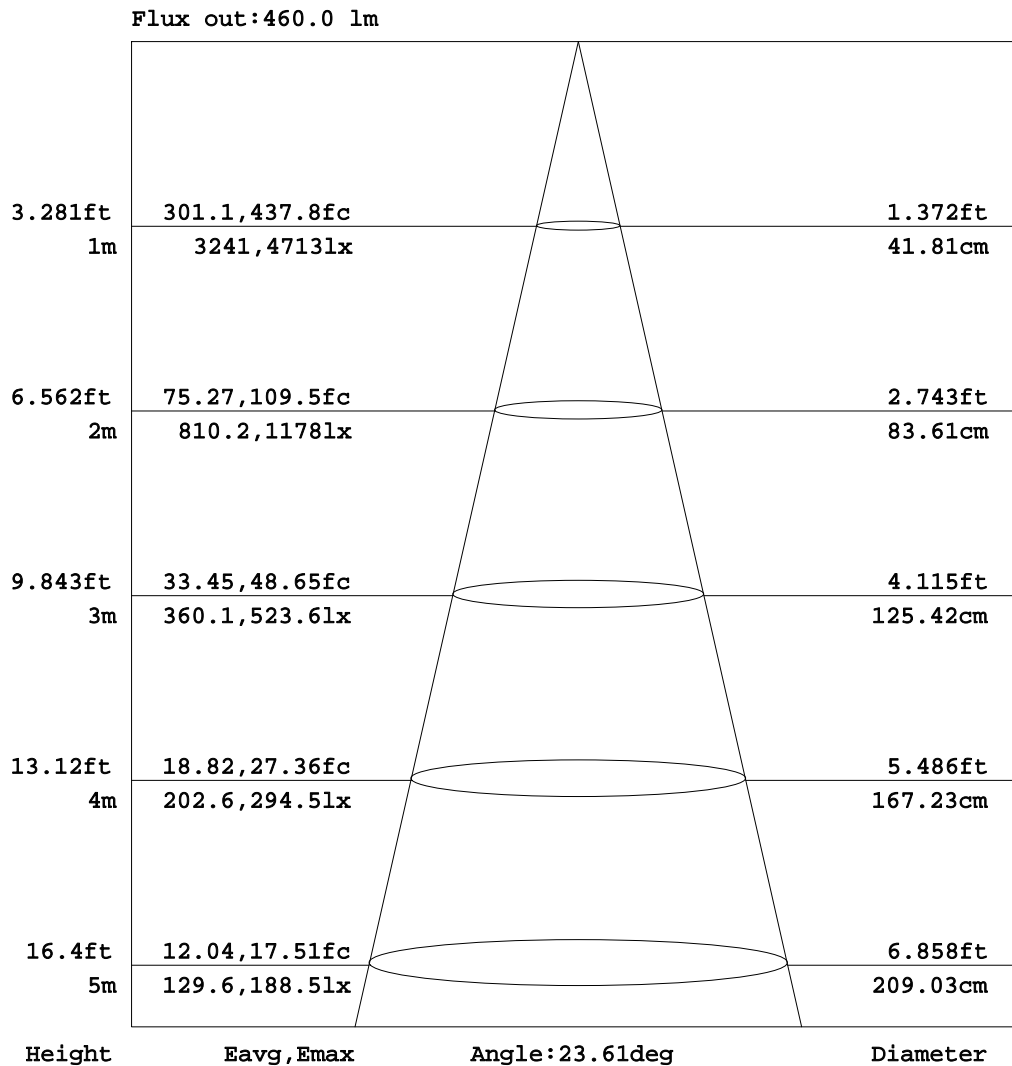


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AAI Figure

| | | |
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| SPEC.:3000K | DIM.: φ70mm*H138mm | |
| MFR.: NEKO LIGHTING AG | | |



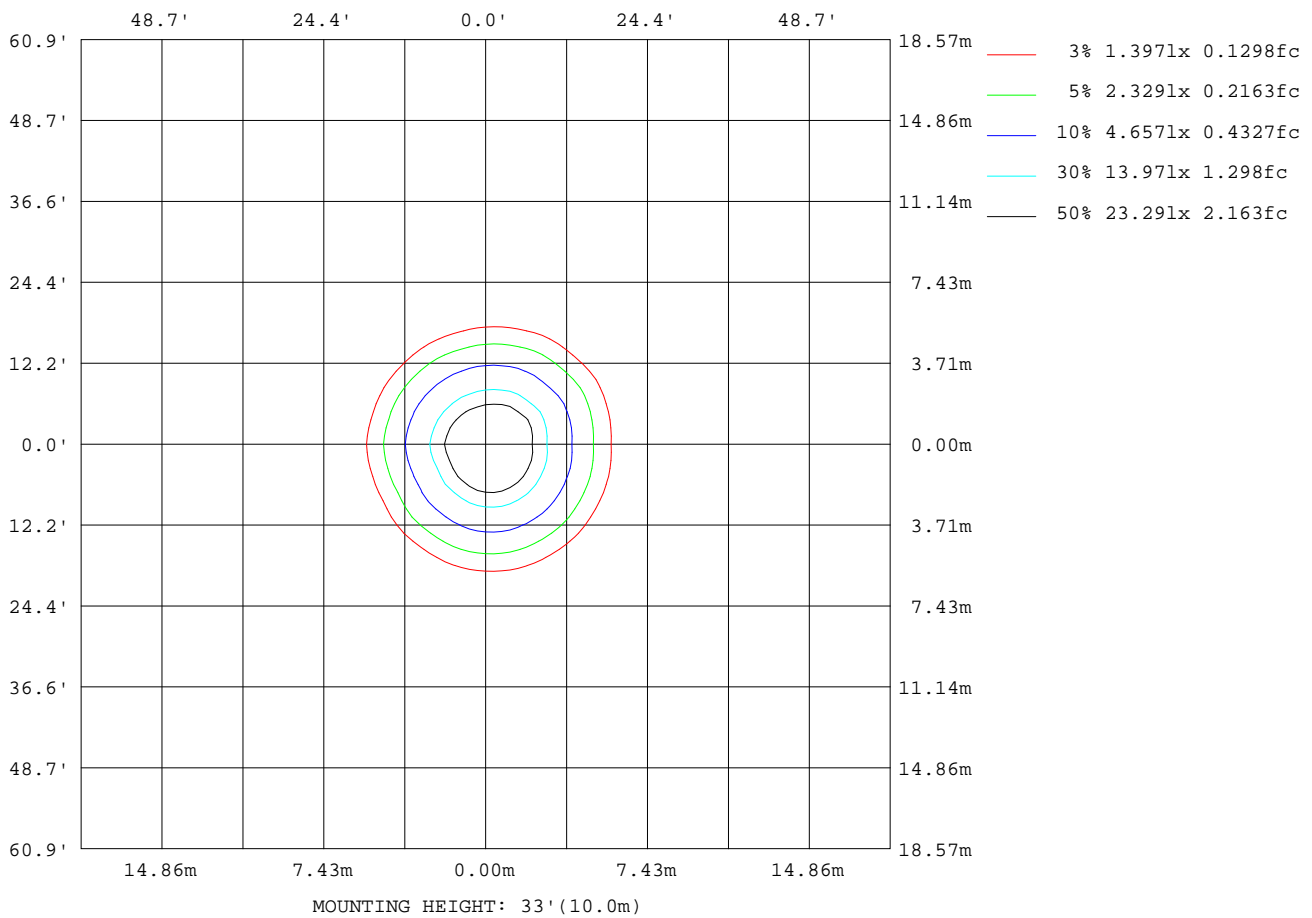
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-28

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

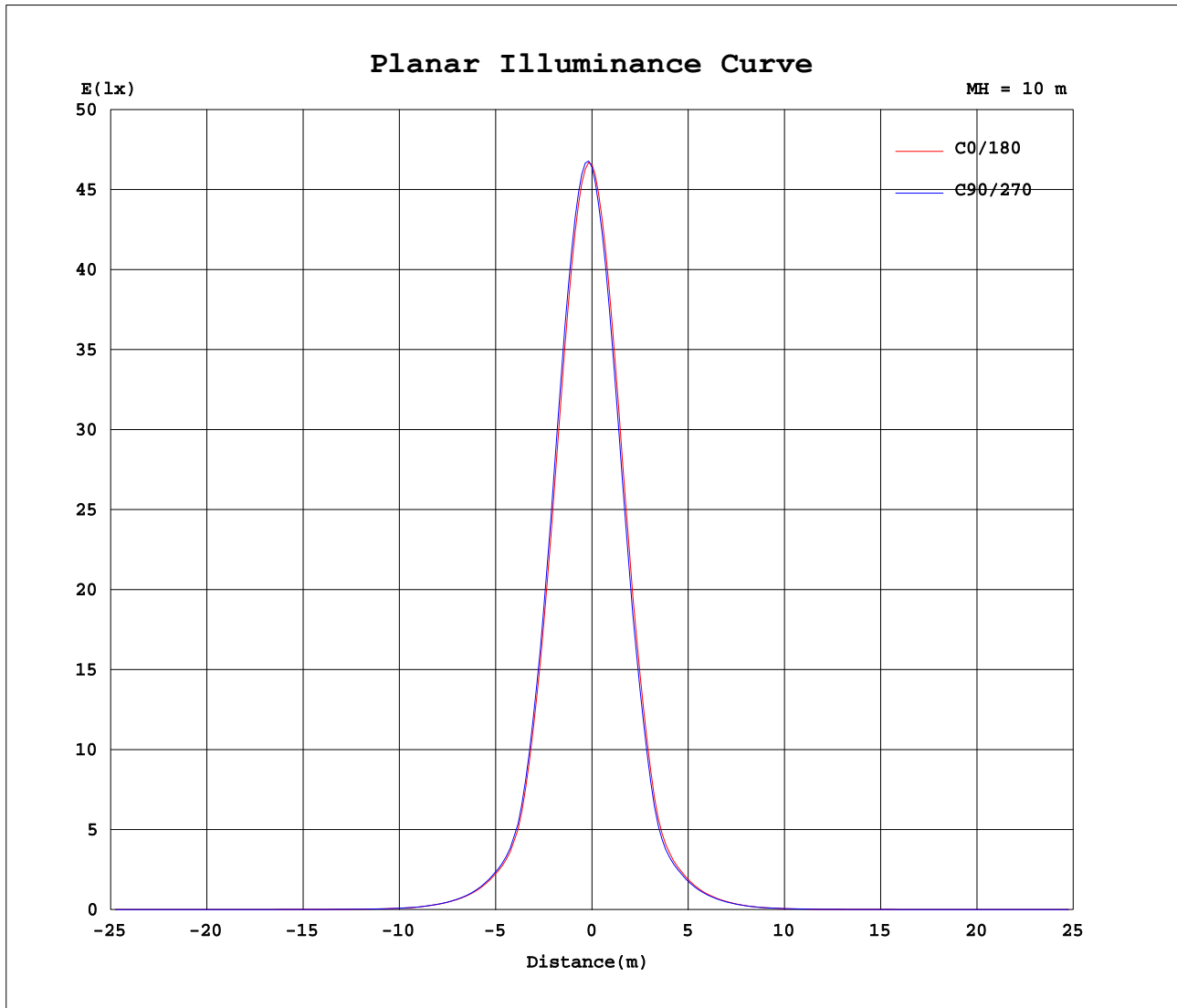
| | | |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0749A P:15.37W PF:0.9294 Lamp Flux:1044.67x1 lm | | |
| NAME: FOCUS S-15W-930-25D | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: φ70mm*H138mm | |
| MFR.: NEKO LIGHTING AG | | |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-07-28

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



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-28

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0749A P:15.37W PF:0.9294 Lamp Flux:1044.67x1 lm | | |
| NAME: FOCUS S-15W-930-25D | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: ϕ70mm*H138mm | |
| MFR.: NEKO LIGHTING AG | | |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 4657 | 4652 | 4661 | 4650 | 4659 | 4626 | 4640 | 4657 | 4683 | 4687 | 4668 | 4675 | 4657 | 4652 | 4661 | 4650 | 4659 | 4626 | 4640 |
| 5 | 4277 | 4371 | 4402 | 4458 | 4447 | 4447 | 4367 | 4265 | 4105 | 4041 | 3859 | 3892 | 3954 | 3848 | 3823 | 3758 | 3783 | 3749 | 3840 |
| 10 | 3068 | 3200 | 3246 | 3328 | 3315 | 3319 | 3203 | 3064 | 2826 | 2745 | 2512 | 2555 | 2644 | 2509 | 2475 | 2391 | 2415 | 2388 | 2509 |
| 15 | 1716 | 1838 | 1879 | 1959 | 1941 | 1923 | 1812 | 1704 | 1515 | 1466 | 1286 | 1332 | 1403 | 1295 | 1265 | 1203 | 1221 | 1213 | 1305 |
| 20 | 738 | 806 | 831 | 885 | 878 | 854 | 793 | 726 | 624 | 597 | 541 | 542 | 576 | 548 | 527 | 504 | 506 | 500 | 531 |
| 25 | 368 | 386 | 395 | 409 | 407 | 406 | 388 | 371 | 342 | 331 | 300 | 304 | 317 | 297 | 292 | 281 | 282 | 280 | 298 |
| 30 | 211 | 223 | 226 | 233 | 231 | 232 | 222 | 211 | 191 | 184 | 165 | 167 | 174 | 163 | 160 | 154 | 155 | 155 | 165 |
| 35 | 116 | 122 | 124 | 128 | 126 | 126 | 119 | 113 | 102 | 97.9 | 87.0 | 88.5 | 91.8 | 85.8 | 83.2 | 79.8 | 80.6 | 82.7 | 88.0 |
| 40 | 58.0 | 61.3 | 63.2 | 64.7 | 64.5 | 61.8 | 59.1 | 54.6 | 47.8 | 45.8 | 39.5 | 40.9 | 42.6 | 38.8 | 37.5 | 35.5 | 36.0 | 37.7 | 40.7 |
| 45 | 26.5 | 28.3 | 28.7 | 29.8 | 29.5 | 28.4 | 26.8 | 25.4 | 22.3 | 21.5 | 19.2 | 19.7 | 20.3 | 18.7 | 18.1 | 17.4 | 17.7 | 18.4 | 19.6 |
| 50 | 12.7 | 13.4 | 13.7 | 14.4 | 14.4 | 13.9 | 13.1 | 12.4 | 11.2 | 10.8 | 9.93 | 10.1 | 10.3 | 9.68 | 9.44 | 9.27 | 9.41 | 9.70 | 10.1 |
| 55 | 7.74 | 7.92 | 8.01 | 8.30 | 8.38 | 8.37 | 8.13 | 7.76 | 7.34 | 7.35 | 7.01 | 7.10 | 7.17 | 6.80 | 6.63 | 6.53 | 6.63 | 6.81 | 7.06 |
| 60 | 5.74 | 5.89 | 5.93 | 6.10 | 6.05 | 6.01 | 5.86 | 5.64 | 5.37 | 5.31 | 4.95 | 5.02 | 5.16 | 4.93 | 4.89 | 4.79 | 4.87 | 4.95 | 5.16 |
| 65 | 4.09 | 4.18 | 4.19 | 4.28 | 4.28 | 4.23 | 4.11 | 3.99 | 3.76 | 3.65 | 3.30 | 3.36 | 3.50 | 3.32 | 3.32 | 3.28 | 3.37 | 3.44 | 3.58 |
| 70 | 2.51 | 2.65 | 2.65 | 2.71 | 2.69 | 2.69 | 2.48 | 2.24 | 1.90 | 1.83 | 1.59 | 1.64 | 1.72 | 1.63 | 1.63 | 1.60 | 1.68 | 1.76 | 1.92 |
| 75 | 0.69 | 0.76 | 0.77 | 0.81 | 0.80 | 0.79 | 0.73 | 0.63 | 0.39 | 0.32 | 0.24 | 0.22 | 0.22 | 0.22 | 0.20 | 0.23 | 0.23 | 0.25 | 0.21 |
| 80 | 0.16 | 0.15 | 0.18 | 0.17 | 0.19 | 0.16 | 0.18 | 0.15 | 0.16 | 0.14 | 0.14 | 0.12 | 0.12 | 0.13 | 0.10 | 0.12 | 0.09 | 0.12 | 0.10 |
| 85 | 0.09 | 0.07 | 0.10 | 0.09 | 0.11 | 0.09 | 0.11 | 0.07 | 0.09 | 0.07 | 0.08 | 0.06 | 0.05 | 0.06 | 0.04 | 0.06 | 0.04 | 0.06 | 0.04 |
| 90 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-28

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0749A P:15.37W PF:0.9294 Lamp Flux:1044.67x1 lm | | |
| NAME: FOCUS S-15W-930-25D | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: φ70mm*H138mm | |
| MFR.: NEKO LIGHTING AG | | |

Table--2

UNIT: cd

| C (DEG) \ γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 4657 | 4683 | 4687 | 4668 | 4675 | | | | | | | | | | | | | | |
| 5 | 3953 | 4153 | 4227 | 4401 | 4377 | | | | | | | | | | | | | | |
| 10 | 2647 | 2915 | 3010 | 3262 | 3201 | | | | | | | | | | | | | | |
| 15 | 1399 | 1594 | 1661 | 1870 | 1812 | | | | | | | | | | | | | | |
| 20 | 586 | 663 | 703 | 827 | 794 | | | | | | | | | | | | | | |
| 25 | 316 | 349 | 363 | 397 | 386 | | | | | | | | | | | | | | |
| 30 | 177 | 198 | 207 | 229 | 222 | | | | | | | | | | | | | | |
| 35 | 95.3 | 107 | 113 | 126 | 121 | | | | | | | | | | | | | | |
| 40 | 44.8 | 52.1 | 55.2 | 62.3 | 60.6 | | | | | | | | | | | | | | |
| 45 | 21.1 | 24.2 | 25.3 | 28.2 | 27.2 | | | | | | | | | | | | | | |
| 50 | 10.7 | 12.0 | 12.4 | 13.6 | 13.1 | | | | | | | | | | | | | | |
| 55 | 7.29 | 7.62 | 7.80 | 8.15 | 7.96 | | | | | | | | | | | | | | |
| 60 | 5.35 | 5.63 | 5.77 | 6.05 | 5.92 | | | | | | | | | | | | | | |
| 65 | 3.74 | 3.98 | 4.07 | 4.35 | 4.26 | | | | | | | | | | | | | | |
| 70 | 2.06 | 2.29 | 2.43 | 2.82 | 2.72 | | | | | | | | | | | | | | |
| 75 | 0.28 | 0.53 | 0.64 | 0.84 | 0.78 | | | | | | | | | | | | | | |
| 80 | 0.13 | 0.12 | 0.15 | 0.14 | 0.16 | | | | | | | | | | | | | | |
| 85 | 0.07 | 0.06 | 0.08 | 0.06 | 0.09 | | | | | | | | | | | | | | |
| 90 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-28

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 | 4657 | 4652 | 4661 | 4650 | 4659 | 4626 | 4640 | 4657 | 4683 | 4687 |
| 3.0 | 4557 | 4618 | 4647 | 4680 | 4677 | 4664 | 4615 | 4554 | 4455 | 4411 |
| 6.0 | 4085 | 4190 | 4219 | 4283 | 4275 | 4283 | 4187 | 4075 | 3890 | 3817 |
| 9.0 | 3345 | 3478 | 3513 | 3600 | 3587 | 3598 | 3480 | 3345 | 3108 | 3035 |
| 12.0 | 2503 | 2639 | 2688 | 2771 | 2758 | 2747 | 2627 | 2492 | 2264 | 2191 |
| 15.0 | 1716 | 1838 | 1879 | 1959 | 1941 | 1923 | 1812 | 1704 | 1515 | 1466 |
| 18.0 | 1080 | 1174 | 1206 | 1269 | 1262 | 1237 | 1148 | 1059 | 911.2 | 867.6 |
| 21.0 | 616.9 | 665.1 | 684.2 | 725.0 | 718.6 | 705.0 | 658.6 | 608.6 | 548.5 | 518.6 |
| 24.0 | 410.9 | 434.2 | 443.2 | 459.3 | 456.8 | 457.9 | 435.5 | 414.1 | 379.5 | 367.6 |
| 27.0 | 300.3 | 313.1 | 318.3 | 327.8 | 325.1 | 326.5 | 315.6 | 300.1 | 273.0 | 263.3 |
| 30.0 | 211.5 | 222.5 | 225.5 | 233.5 | 231.1 | 231.6 | 221.6 | 210.6 | 190.9 | 184.1 |
| 33.0 | 148.0 | 155.7 | 157.8 | 162.6 | 161.4 | 160.4 | 153.2 | 145.5 | 131.9 | 127.9 |
| 36.0 | 102.0 | 107.4 | 109.3 | 112.6 | 111.7 | 109.5 | 104.4 | 98.56 | 88.95 | 85.30 |
| 39.0 | 67.15 | 71.40 | 72.87 | 75.13 | 74.30 | 72.05 | 68.51 | 63.97 | 57.11 | 54.25 |
| 42.0 | 41.42 | 44.67 | 45.60 | 47.48 | 46.83 | 44.98 | 42.09 | 38.86 | 33.70 | 32.57 |
| 45.0 | 26.49 | 28.27 | 28.67 | 29.84 | 29.49 | 28.38 | 26.80 | 25.37 | 22.26 | 21.53 |
| 48.0 | 16.88 | 18.06 | 18.44 | 19.31 | 19.14 | 18.49 | 17.42 | 16.28 | 14.41 | 13.97 |
| 51.0 | 11.22 | 11.82 | 12.07 | 12.58 | 12.62 | 12.34 | 11.75 | 10.89 | 9.883 | 9.772 |
| 54.0 | 8.256 | 8.479 | 8.633 | 9.055 | 9.090 | 8.995 | 8.683 | 8.298 | 7.781 | 7.759 |
| 57.0 | 6.918 | 7.056 | 7.134 | 7.343 | 7.386 | 7.393 | 7.218 | 6.879 | 6.481 | 6.449 |
| 60.0 | 5.735 | 5.889 | 5.931 | 6.101 | 6.052 | 6.007 | 5.855 | 5.640 | 5.373 | 5.307 |
| 63.0 | 4.744 | 4.810 | 4.817 | 4.940 | 4.920 | 4.879 | 4.773 | 4.636 | 4.357 | 4.260 |
| 66.0 | 3.829 | 3.883 | 3.882 | 3.949 | 3.948 | 3.960 | 3.849 | 3.725 | 3.398 | 3.282 |
| 69.0 | 2.905 | 2.984 | 2.970 | 3.017 | 3.012 | 3.025 | 2.891 | 2.703 | 2.274 | 2.144 |
| 72.0 | 1.775 | 1.881 | 1.883 | 1.932 | 1.892 | 1.879 | 1.760 | 1.570 | 1.193 | 1.067 |
| 75.0 | 0.6913 | 0.7614 | 0.7692 | 0.8099 | 0.7998 | 0.7943 | 0.7327 | 0.6340 | 0.3884 | 0.3250 |
| 78.0 | 0.1970 | 0.1879 | 0.2169 | 0.2032 | 0.2239 | 0.2010 | 0.2145 | 0.1901 | 0.1970 | 0.1704 |
| 81.0 | 0.1444 | 0.1310 | 0.1641 | 0.1464 | 0.1685 | 0.1442 | 0.1620 | 0.1332 | 0.1467 | 0.1201 |
| 84.0 | 0.1007 | 0.0851 | 0.1160 | 0.1004 | 0.1204 | 0.0983 | 0.1161 | 0.0873 | 0.1008 | 0.0764 |
| 87.0 | 0.0679 | 0.0524 | 0.0788 | 0.0612 | 0.0832 | 0.0633 | 0.0853 | 0.0546 | 0.0679 | 0.0459 |
| 90.0 | 0.0437 | 0.0437 | 0.0503 | 0.0481 | 0.0525 | 0.0503 | 0.0568 | 0.0459 | 0.0481 | 0.0481 |
| G/C | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 |
| 0.0 | 4668 | 4675 | 4652 | 4661 | 4650 | 4659 | 4626 | 4640 | 4657 | 4683 |
| 3.0 | 4276 | 4301 | 4336 | 4266 | 4252 | 4205 | 4218 | 4180 | 4252 | 4338 |
| 6.0 | 3614 | 3656 | 3723 | 3603 | 3571 | 3501 | 3525 | 3493 | 3600 | 3731 |
| 9.0 | 2792 | 2841 | 2918 | 2785 | 2747 | 2666 | 2688 | 2666 | 2785 | 2931 |
| 12.0 | 1970 | 2017 | 2100 | 1978 | 1942 | 1872 | 1888 | 1874 | 1975 | 2106 |
| 15.0 | 1286 | 1332 | 1403 | 1295 | 1265 | 1203 | 1221 | 1213 | 1305 | 1399 |
| 18.0 | 742.5 | 766.8 | 817.8 | 745.1 | 726.1 | 684.4 | 693.2 | 692.5 | 751.4 | 826.1 |
| 21.0 | 465.9 | 472.5 | 500.6 | 472.5 | 464.3 | 445.4 | 446.0 | 438.4 | 461.1 | 492.7 |
| 24.0 | 334.9 | 338.3 | 351.3 | 332.7 | 327.5 | 315.9 | 317.2 | 313.0 | 329.5 | 349.6 |
| 27.0 | 237.3 | 240.3 | 251.3 | 235.7 | 231.1 | 222.7 | 223.9 | 222.3 | 235.2 | 251.9 |
| 30.0 | 164.8 | 167.0 | 174.2 | 163.2 | 160.1 | 154.0 | 155.3 | 155.2 | 164.9 | 176.9 |
| 33.0 | 113.5 | 114.6 | 119.3 | 112.1 | 108.9 | 105.0 | 105.5 | 107.3 | 113.7 | 122.7 |
| 36.0 | 75.49 | 76.89 | 79.89 | 74.30 | 72.01 | 68.96 | 69.63 | 71.82 | 76.67 | 83.13 |
| 39.0 | 47.23 | 48.62 | 50.52 | 46.26 | 44.72 | 42.46 | 42.98 | 44.88 | 48.36 | 52.87 |
| 42.0 | 29.53 | 30.34 | 31.12 | 28.92 | 27.97 | 26.71 | 27.05 | 28.20 | 29.93 | 31.88 |
| 45.0 | 19.18 | 19.74 | 20.28 | 18.72 | 18.15 | 17.39 | 17.72 | 18.42 | 19.61 | 21.08 |
| 48.0 | 12.63 | 12.83 | 13.14 | 12.23 | 11.93 | 11.54 | 11.77 | 12.21 | 12.85 | 13.75 |
| 51.0 | 9.155 | 9.285 | 9.439 | 8.895 | 8.665 | 8.400 | 8.581 | 8.889 | 9.274 | 9.691 |
| 54.0 | 7.467 | 7.544 | 7.568 | 7.232 | 7.075 | 6.980 | 7.071 | 7.234 | 7.452 | 7.710 |
| 57.0 | 6.122 | 6.223 | 6.277 | 6.014 | 5.906 | 5.817 | 5.895 | 6.020 | 6.242 | 6.488 |
| 60.0 | 4.952 | 5.021 | 5.162 | 4.931 | 4.885 | 4.793 | 4.872 | 4.955 | 5.160 | 5.350 |
| 63.0 | 3.949 | 3.964 | 4.100 | 3.943 | 3.921 | 3.901 | 3.945 | 3.985 | 4.125 | 4.309 |
| 66.0 | 2.992 | 3.030 | 3.145 | 3.022 | 3.021 | 3.002 | 3.106 | 3.173 | 3.266 | 3.412 |
| 69.0 | 1.886 | 1.926 | 2.019 | 1.936 | 1.938 | 1.920 | 2.008 | 2.091 | 2.233 | 2.415 |
| 72.0 | 0.8111 | 0.8490 | 0.9073 | 0.8018 | 0.8719 | 0.8662 | 0.9132 | 0.9634 | 1.068 | 1.249 |
| 75.0 | 0.2378 | 0.2163 | 0.2183 | 0.2177 | 0.1965 | 0.2261 | 0.2333 | 0.2486 | 0.2139 | 0.2828 |
| 78.0 | 0.1773 | 0.1508 | 0.1507 | 0.1598 | 0.1376 | 0.1510 | 0.1245 | 0.1531 | 0.1354 | 0.1598 |
| 81.0 | 0.1313 | 0.1048 | 0.0982 | 0.1116 | 0.0851 | 0.1072 | 0.0807 | 0.1072 | 0.0873 | 0.1138 |
| 84.0 | 0.0876 | 0.0633 | 0.0589 | 0.0723 | 0.0502 | 0.0679 | 0.0436 | 0.0701 | 0.0523 | 0.0767 |
| 87.0 | 0.0592 | 0.0415 | 0.0306 | 0.0438 | 0.0284 | 0.0416 | 0.0306 | 0.0460 | 0.0284 | 0.0504 |
| 90.0 | 0.0459 | 0.0437 | 0.0284 | 0.0284 | 0.0284 | 0.0306 | 0.0284 | 0.0306 | 0.0262 | 0.0306 |
| G/C | 300.0 | 315.0 | 330.0 | 345.0 | | | | | | |
| 0.0 | 4683 | 4687 | 4668 | 4675 | | | | | | |
| 3.0 | 4484 | 4538 | 4643 | 4631 | | | | | | |
| 6.0 | 3947 | 4027 | 4225 | 4193 | | | | | | |
| 9.0 | 3188 | 3286 | 3526 | 3475 | | | | | | |
| 12.0 | 2349 | 2445 | 2690 | 2626 | | | | | | |
| 15.0 | 1594 | 1661 | 1870 | 1812 | | | | | | |
| 18.0 | 978.3 | 1030 | 1196 | 1150 | | | | | | |
| 21.0 | 559.2 | 587.3 | 682.9 | 656.3 | | | | | | |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-07-28

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 | 388.1 | 404.6 | 443.1 | 430.8 |
| 27.0 | 280.6 | 293.1 | 323.2 | 314.5 |
| 30.0 | 198.3 | 207.2 | 228.8 | 222.0 |
| 33.0 | 139.1 | 144.8 | 159.9 | 154.9 |
| 36.0 | 94.23 | 99.02 | 110.0 | 106.3 |
| 39.0 | 61.11 | 64.84 | 72.80 | 70.12 |
| 42.0 | 36.76 | 39.07 | 44.99 | 43.21 |
| 45.0 | 24.16 | 25.27 | 28.19 | 27.23 |
| 48.0 | 15.60 | 16.29 | 18.25 | 17.62 |
| 51.0 | 10.48 | 10.90 | 12.06 | 11.68 |
| 54.0 | 8.152 | 8.340 | 8.709 | 8.489 |
| 57.0 | 6.792 | 6.974 | 7.232 | 7.094 |
| 60.0 | 5.631 | 5.773 | 6.045 | 5.915 |
| 63.0 | 4.659 | 4.763 | 4.995 | 4.896 |
| 66.0 | 3.713 | 3.807 | 4.062 | 3.999 |
| 69.0 | 2.732 | 2.858 | 3.156 | 3.085 |
| 72.0 | 1.575 | 1.724 | 2.005 | 1.921 |
| 75.0 | 0.5326 | 0.6363 | 0.8390 | 0.7808 |
| 78.0 | 0.1572 | 0.1860 | 0.1769 | 0.1992 |
| 81.0 | 0.1070 | 0.1335 | 0.1266 | 0.1401 |
| 84.0 | 0.0655 | 0.0898 | 0.0764 | 0.0942 |
| 87.0 | 0.0328 | 0.0591 | 0.0436 | 0.0635 |
| 90.0 | 0.0241 | 0.0306 | 0.0350 | 0.0350 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-28

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: