

LED Downlight TAKEO Series T150-25W-840-30



| | | |
|---------------------|--------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 25.2 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: 2018-01-24

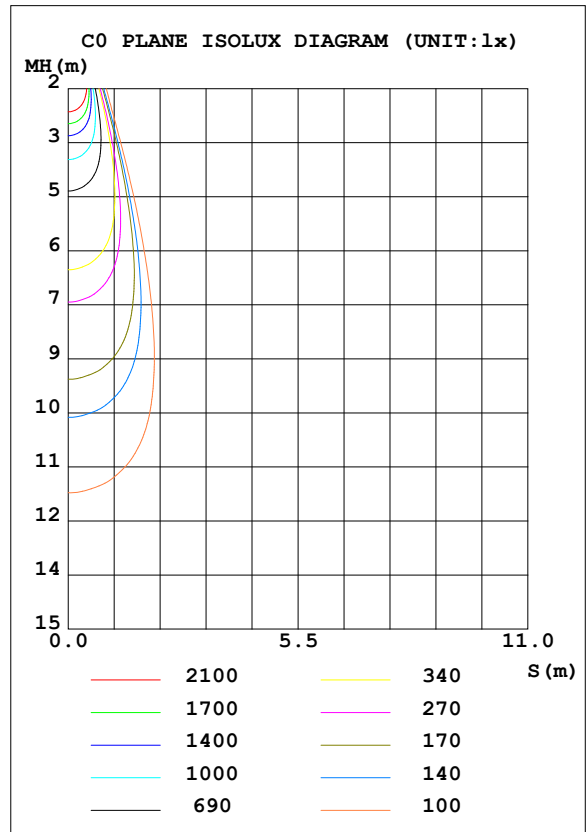
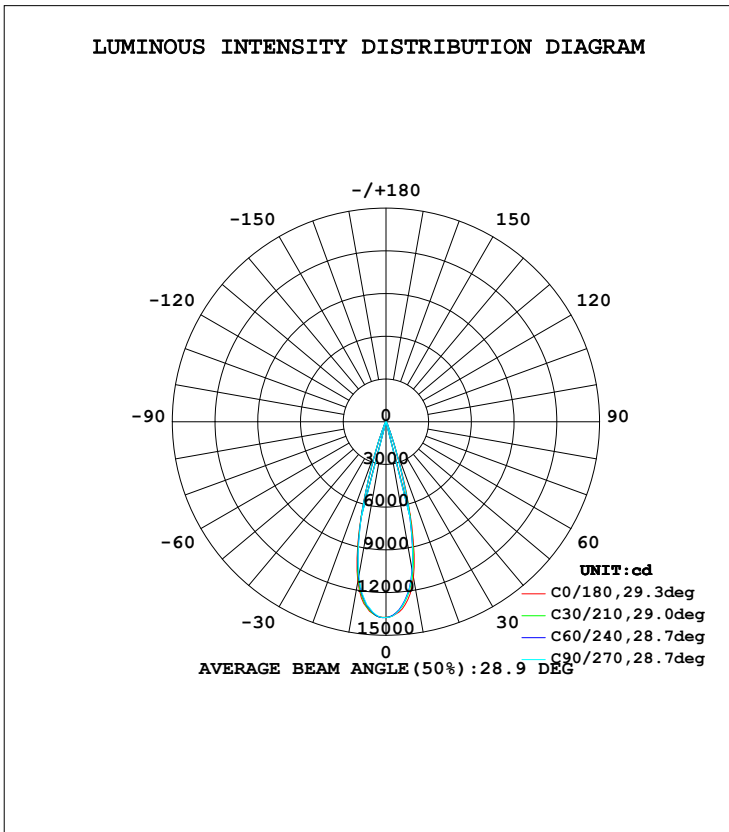
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 129.02 lm/W | | | |
|-------------------|---------------|-----------------------------------|--------|---------------------|-----------|
| MODEL | CITIZEN-4000K | I _{max} (cd) | 13758 | S/MH (C0/180) | 0.44 |
| NOMINAL POWER (W) | 25 | LOR (%) | 100.0 | S/MH (C90/270) | 0.44 |
| RATED VOLTAGE (V) | 36 | TOTAL FLUX (lm) | 3251.3 | η UP, DN (C0-180) | 0.0, 49.2 |
| NOMINAL FLUX (lm) | 3251.26 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 50.8 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE (V) | 36 | 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: 2018-01-24

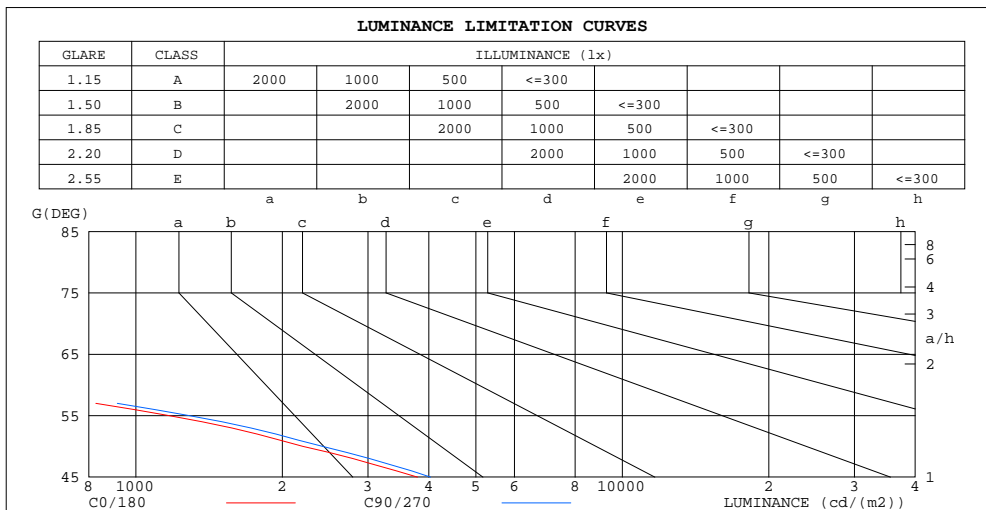
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

**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 | 1112 | 1074 | 1062 | 1103 | 1139 | 1105 | 1099 | 1126 | 0- 10 | 1192 | 1192 | 36.7,36.7 |
| 20 | 174.4 | 174.8 | 158.2 | 173.5 | 184.5 | 170.8 | 180.8 | 184.3 | 10- 20 | 1636 | 2828 | 87,87 |
| 30 | 24.44 | 23.46 | 23.35 | 23.76 | 23.86 | 23.00 | 23.63 | 24.47 | 20- 30 | 270.8 | 3099 | 95.3,95.3 |
| 40 | 9.251 | 9.475 | 9.636 | 9.400 | 9.094 | 8.567 | 8.778 | 9.160 | 30- 40 | 92.73 | 3192 | 98.2,98.2 |
| 50 | 2.849 | 3.173 | 3.128 | 2.880 | 2.817 | 2.636 | 2.651 | 2.738 | 40- 50 | 42.71 | 3235 | 99.5,99.5 |
| 60 | 0.4963 | 0.6261 | 0.5798 | 0.5170 | 0.4930 | 0.4702 | 0.4706 | 0.4737 | 50- 60 | 13.01 | 3248 | 99.9,99.9 |
| 70 | 0.1395 | 0.1725 | 0.1638 | 0.1393 | 0.1360 | 0.1383 | 0.1353 | 0.1300 | 60- 70 | 2.887 | 3250 | 100,100 |
| 80 | 0.0193 | 0.0161 | 0.0134 | 0.0140 | 0.0172 | 0.0140 | 0.0101 | 0.0147 | 70- 80 | 0.7044 | 3251 | 100,100 |
| 90 | 0.0107 | 0.0103 | 0.0103 | 0.0105 | 0.0087 | 0.0085 | 0.0090 | 0.0087 | 80- 90 | 0.1175 | 3251 | 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: $\times 10\text{cd}$ | | | | | | | | | UNIT: lm | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 65 | 62 |
| 80 | 55 | 38 |
| 75 | 123 | 121 |
| 70 | 203 | 238 |
| 65 | 313 | 379 |
| 60 | 494 | 577 |
| 55 | 1171 | 1289 |
| 50 | 2205 | 2421 |
| 45 | 3791 | 4034 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2018-01-24

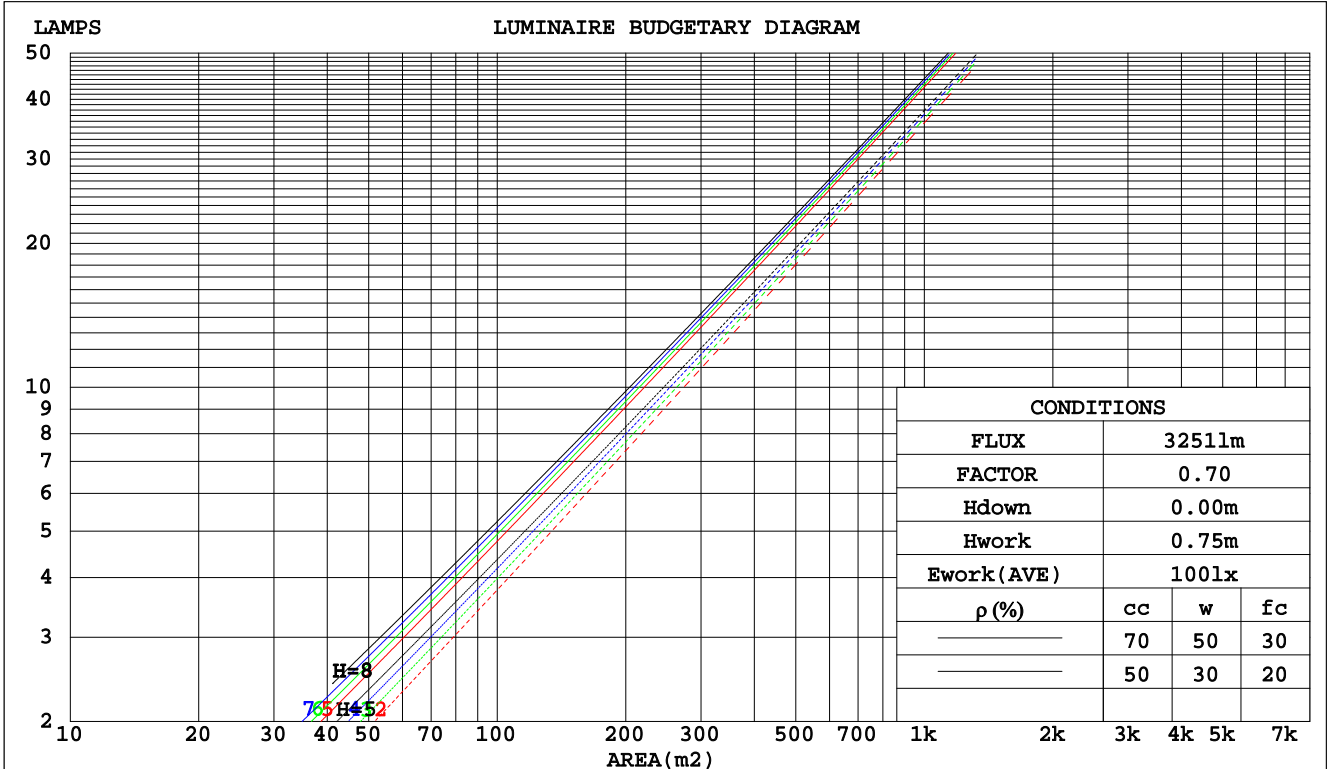
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| 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 | | | | | | | | | | | | | | | |
| | 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 | 1.10 | 1.11 | 1.09 | 1.08 | 1.07 | 1.06 | 1.05 | 1.03 | 1.02 | 1.01 | .00 | .99 | .99 | .97 |
| 2.0 | 1.08 | 1.05 | 1.03 | 1.06 | 1.04 | 1.02 | 1.03 | 1.01 | .99 | 1.00 | .99 | .97 | .98 | .96 | .95 | .94 |
| 3.0 | 1.04 | 1.00 | .97 | 1.02 | .99 | .97 | .00 | .97 | .95 | .98 | .95 | .94 | .96 | .94 | .92 | .91 |
| 4.0 | .00 | .96 | .93 | .99 | .95 | .93 | .97 | .94 | .91 | .95 | .92 | .90 | .93 | .91 | .90 | .88 |
| 5.0 | .96 | .92 | .89 | .96 | .92 | .89 | .94 | .91 | .88 | .92 | .90 | .88 | .91 | .89 | .87 | .86 |
| 6.0 | .93 | .89 | .86 | .93 | .89 | .86 | .91 | .88 | .86 | .90 | .87 | .85 | .89 | .86 | .85 | .83 |
| 7.0 | .90 | .86 | .84 | .90 | .86 | .83 | .89 | .85 | .83 | .88 | .85 | .83 | .87 | .84 | .82 | .81 |
| 8.0 | .88 | .84 | .81 | .87 | .84 | .81 | .86 | .83 | .81 | .86 | .83 | .80 | .85 | .82 | .80 | .79 |
| 9.0 | .85 | .82 | .79 | .85 | .81 | .79 | .84 | .81 | .79 | .84 | .81 | .78 | .83 | .80 | .78 | .77 |
| 10.0 | .83 | .79 | .77 | .83 | .79 | .77 | .82 | .79 | .77 | .82 | .79 | .76 | .81 | .78 | .76 | .75 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| 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 | .133 | .076 | .024 | .127 | .072 | .023 | .114 | .066 | .021 | .103 | .059 | .019 | .093 | .054 | .017 | |
| 2.0 | .123 | .068 | .021 | .118 | .065 | .020 | .108 | .060 | .019 | .098 | .055 | .017 | .090 | .051 | .016 | |
| 3.0 | .115 | .061 | .018 | .110 | .059 | .018 | .102 | .055 | .017 | .094 | .051 | .016 | .086 | .048 | .015 | |
| 4.0 | .107 | .056 | .016 | .103 | .054 | .016 | .096 | .051 | .015 | .090 | .048 | .015 | .083 | .045 | .014 | |
| 5.0 | .101 | .051 | .015 | .098 | .050 | .015 | .091 | .048 | .014 | .086 | .045 | .013 | .081 | .043 | .013 | |
| 6.0 | .095 | .048 | .014 | .092 | .047 | .013 | .087 | .045 | .013 | .082 | .043 | .013 | .078 | .041 | .012 | |
| 7.0 | .090 | .045 | .013 | .088 | .044 | .012 | .083 | .042 | .012 | .079 | .041 | .012 | .075 | .039 | .011 | |
| 8.0 | .086 | .042 | .012 | .084 | .041 | .012 | .080 | .040 | .011 | .076 | .039 | .011 | .073 | .037 | .011 | |
| 9.0 | .082 | .040 | .011 | .080 | .039 | .011 | .077 | .038 | .011 | .074 | .037 | .011 | .070 | .036 | .010 | |
| 10.0 | .079 | .038 | .010 | .077 | .037 | .010 | .074 | .036 | .010 | .071 | .035 | .010 | .068 | .034 | .010 | |

| 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 | .168 | .158 | .148 | .144 | .135 | .128 | .098 | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .017 | |
| 2.0 | .150 | .133 | .118 | .128 | .114 | .102 | .088 | .079 | .071 | .051 | .046 | .042 | .016 | .015 | .014 | |
| 3.0 | .135 | .113 | .096 | .115 | .098 | .083 | .079 | .068 | .059 | .046 | .040 | .035 | .015 | .013 | .011 | |
| 4.0 | .122 | .098 | .079 | .105 | .085 | .069 | .072 | .059 | .049 | .042 | .035 | .029 | .013 | .011 | .009 | |
| 5.0 | .111 | .085 | .066 | .095 | .074 | .058 | .066 | .052 | .041 | .038 | .030 | .024 | .012 | .010 | .008 | |
| 6.0 | .102 | .075 | .056 | .088 | .065 | .049 | .061 | .046 | .035 | .035 | .027 | .021 | .011 | .009 | .007 | |
| 7.0 | .094 | .067 | .048 | .081 | .058 | .042 | .056 | .041 | .030 | .033 | .024 | .018 | .011 | .008 | .006 | |
| 8.0 | .088 | .060 | .041 | .076 | .052 | .036 | .052 | .037 | .026 | .030 | .022 | .015 | .010 | .007 | .005 | |
| 9.0 | .082 | .055 | .036 | .071 | .047 | .031 | .049 | .033 | .022 | .029 | .020 | .013 | .009 | .006 | .004 | |
| 10.0 | .077 | .050 | .032 | .067 | .043 | .028 | .046 | .030 | .020 | .027 | .018 | .012 | .009 | .006 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| 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 | 6.0 | 6.6 | 6.2 | 6.8 | 6.9 | 6.1 | 6.7 | 6.3 | 6.9 | 7.0 |
| 3H | 5.9 | 6.5 | 6.1 | 6.7 | 6.8 | 6.0 | 6.6 | 6.2 | 6.8 | 7.0 |
| 4H | 5.8 | 6.4 | 6.1 | 6.6 | 6.8 | 5.9 | 6.5 | 6.2 | 6.7 | 6.9 |
| 6H | 5.7 | 6.3 | 6.0 | 6.5 | 6.7 | 5.9 | 6.4 | 6.1 | 6.6 | 6.8 |
| 8H | 5.7 | 6.2 | 6.0 | 6.4 | 6.7 | 5.8 | 6.3 | 6.1 | 6.6 | 6.8 |
| 12H | 5.6 | 6.1 | 5.9 | 6.4 | 6.7 | 5.8 | 6.3 | 6.1 | 6.5 | 6.8 |
| 4H 2H | 5.8 | 6.4 | 6.1 | 6.6 | 6.8 | 6.0 | 6.5 | 6.2 | 6.7 | 6.9 |
| 3H | 5.7 | 6.2 | 6.0 | 6.5 | 6.7 | 5.8 | 6.3 | 6.1 | 6.6 | 6.8 |
| 4H | 5.6 | 6.1 | 6.0 | 6.4 | 6.7 | 5.7 | 6.2 | 6.1 | 6.5 | 6.8 |
| 6H | 5.5 | 5.9 | 5.9 | 6.2 | 6.6 | 5.6 | 6.0 | 6.0 | 6.4 | 6.7 |
| 8H | 5.5 | 5.8 | 5.9 | 6.2 | 6.5 | 5.6 | 6.0 | 6.0 | 6.3 | 6.7 |
| 12H | 5.4 | 5.8 | 5.8 | 6.1 | 6.5 | 5.5 | 5.9 | 5.9 | 6.2 | 6.6 |
| 8H 4H | 5.5 | 5.8 | 5.9 | 6.2 | 6.5 | 5.6 | 6.0 | 6.0 | 6.3 | 6.7 |
| 6H | 5.4 | 5.7 | 5.8 | 6.1 | 6.5 | 5.5 | 5.8 | 5.9 | 6.2 | 6.6 |
| 8H | 5.3 | 5.6 | 5.7 | 6.0 | 6.4 | 5.4 | 5.7 | 5.9 | 6.1 | 6.5 |
| 12H | 5.2 | 5.5 | 5.7 | 5.9 | 6.4 | 5.4 | 5.6 | 5.8 | 6.0 | 6.5 |
| 12H 4H | 5.4 | 5.8 | 5.8 | 6.1 | 6.5 | 5.5 | 5.9 | 5.9 | 6.2 | 6.6 |
| 6H | 5.3 | 5.6 | 5.7 | 6.0 | 6.4 | 5.4 | 5.7 | 5.9 | 6.1 | 6.5 |
| 8H | 5.2 | 5.5 | 5.7 | 5.9 | 6.4 | 5.4 | 5.6 | 5.8 | 6.0 | 6.5 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 2.4 / - 7.9 | | | | | + 2.4 / - 7.4 | | | | |
| 1.5H | + 3.5 / - 5.1 | | | | | + 3.2 / - 5.0 | | | | |
| 2.0H | + 5.0 / - 7.7 | | | | | + 5.0 / - 7.4 | | | | |

CIE Pub.117 Corrected 3251 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.1)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| 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 | 90 | 85 | 81 | 90 | 84 | 81 | 89 | 84 | 81 | 78 |
| 0.80 | 97 | 92 | 89 | 97 | 92 | 89 | 96 | 91 | 88 | 85 |
| 1.00 | 101 | 96 | 93 | 101 | 96 | 93 | 99 | 96 | 92 | 89 |
| 1.25 | 105 | 100 | 97 | 104 | 100 | 97 | 102 | 99 | 96 | 92 |
| 1.50 | 107 | 103 | 100 | 106 | 102 | 100 | 104 | 101 | 99 | 94 |
| 2.00 | 110 | 106 | 103 | 108 | 105 | 102 | 106 | 103 | 101 | 96 |
| 2.50 | 111 | 108 | 105 | 110 | 106 | 104 | 107 | 104 | 102 | 96 |
| 3.00 | 113 | 109 | 107 | 111 | 108 | 106 | 107 | 105 | 104 | 97 |
| 4.00 | 114 | 112 | 110 | 112 | 110 | 109 | 109 | 107 | 106 | 99 |
| 5.00 | 116 | 114 | 112 | 114 | 112 | 110 | 110 | 108 | 107 | 100 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

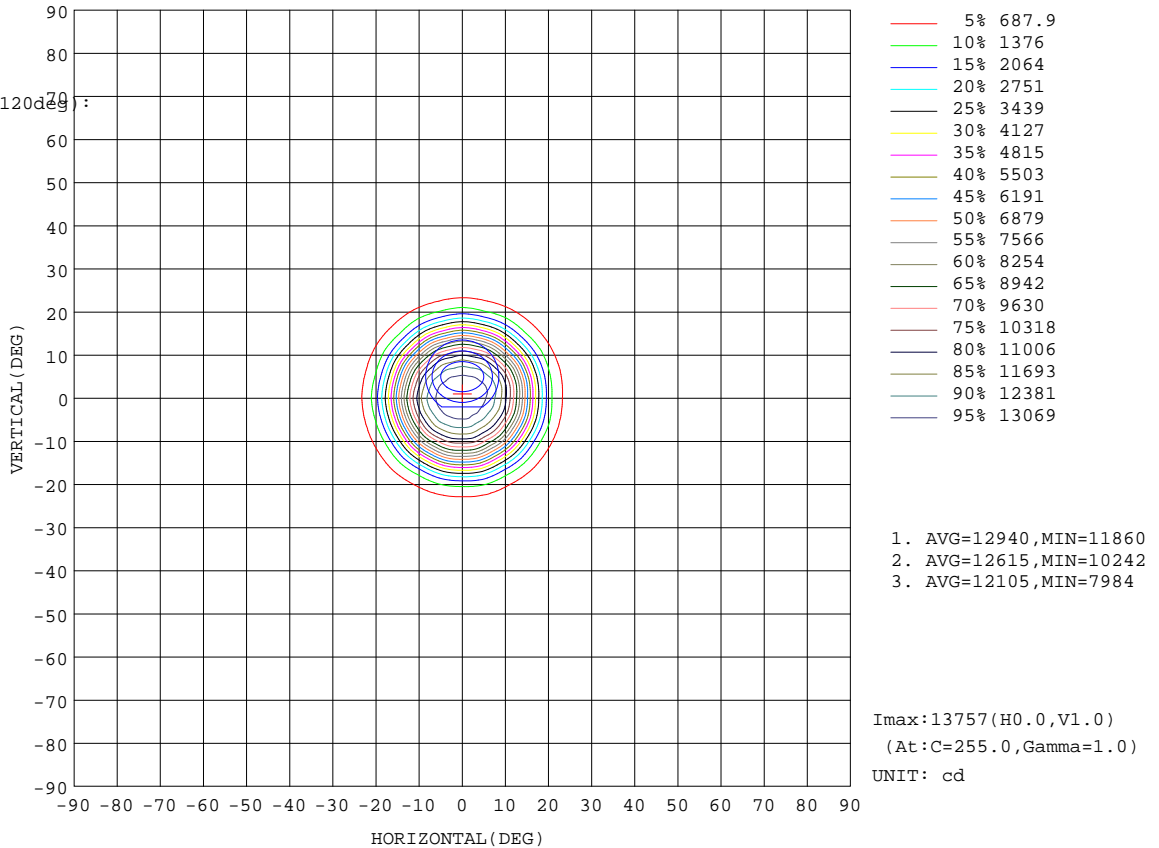
| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

Conical surface Flux(90deg):

3218.3 lm
%lum = 99.0%
%lamp = 99.0%

Conical surface Flux(120deg):

3247.6 lm
%lum = 99.9%
%lamp = 99.9%



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2018-01-24

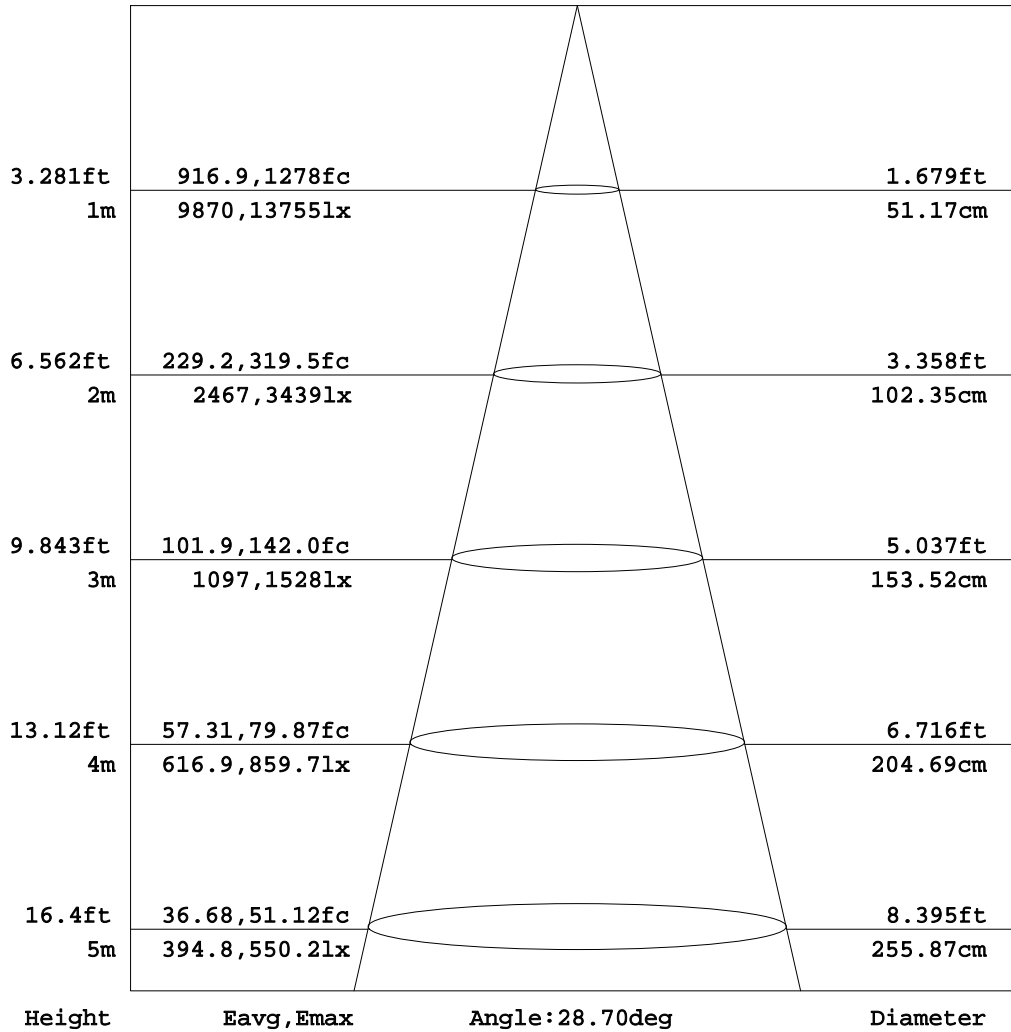
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

Flux out:2226 lm



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

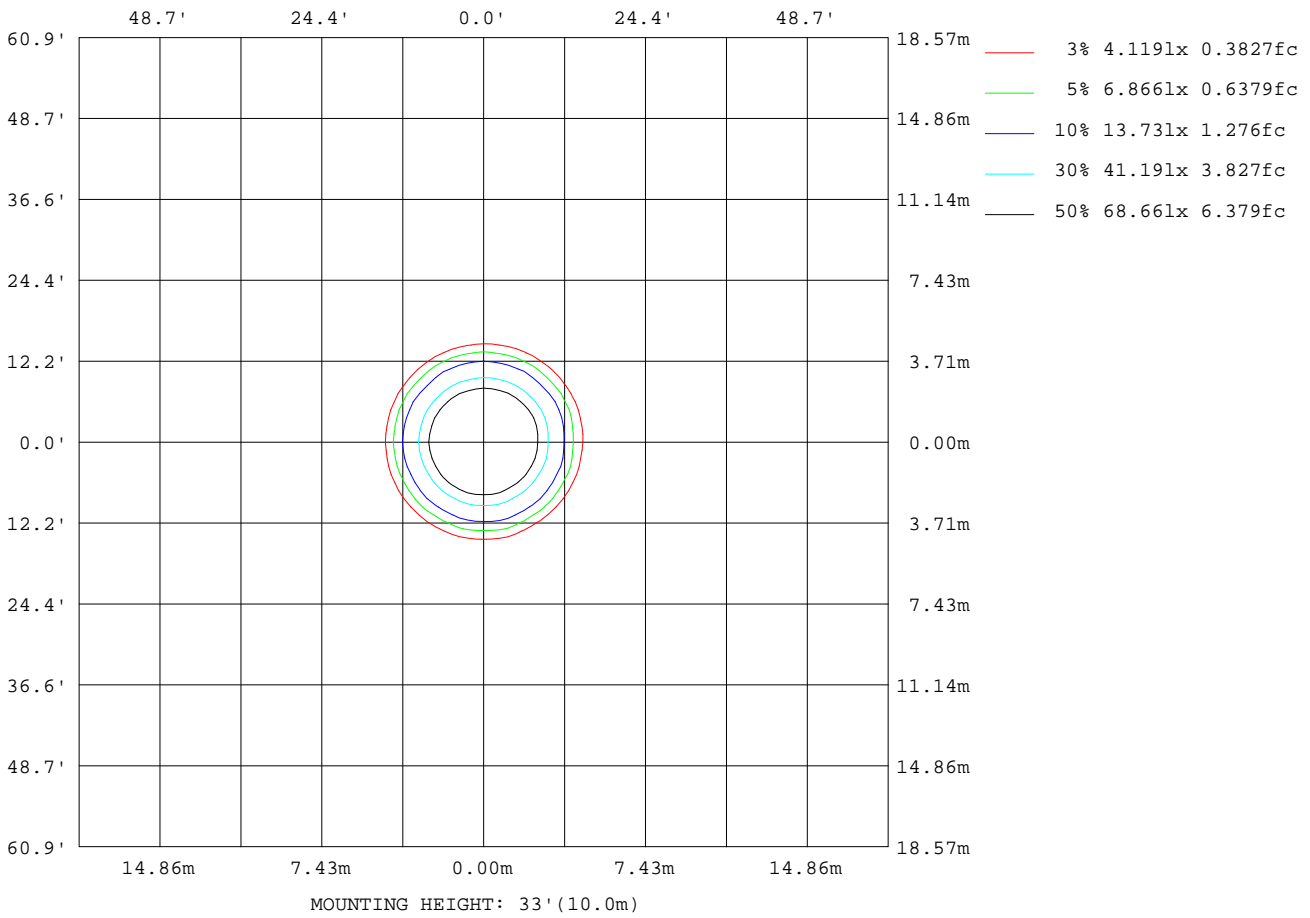
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

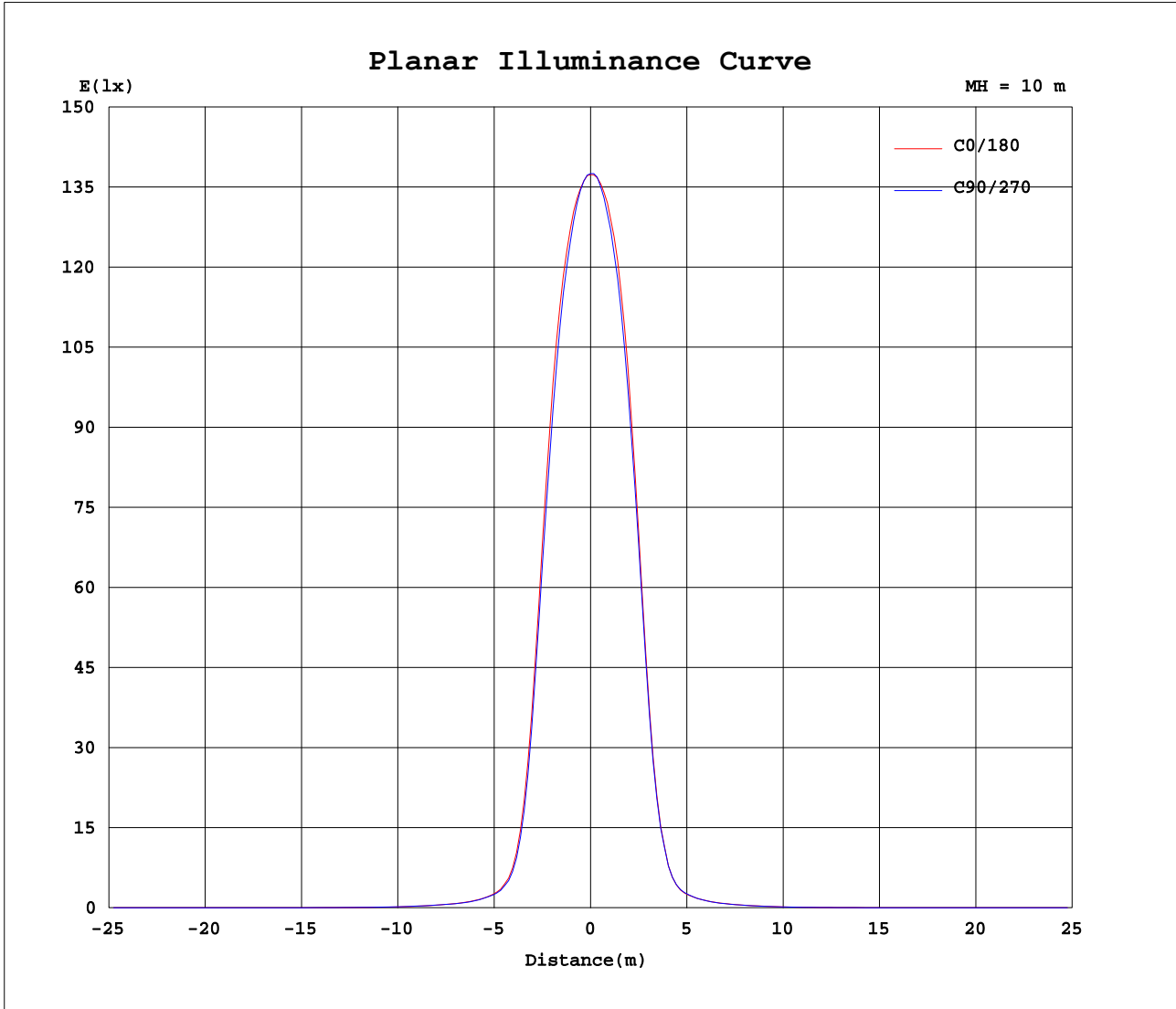
| | | |
|--|---------------------|-------------|
| Test:U:36.00V I:0.7000A P:25.20W PF:1.000 Lamp Flux:3251.26x1 lm | | |
| NAME: T150-25W-840-30 | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ160mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2018-01-24

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: 2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

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 | 13732 | 13738 | 13740 | 13742 | 13743 | 13751 | 13751 | 13753 | 13751 | 13753 |
| 3.0 | 13522 | 13509 | 13451 | 13452 | 13438 | 13500 | 13490 | 13535 | 13555 | 13593 |
| 6.0 | 12913 | 12854 | 12720 | 12712 | 12612 | 12706 | 12671 | 12760 | 12790 | 12940 |
| 9.0 | 11707 | 11657 | 11453 | 11349 | 11216 | 11359 | 11304 | 11394 | 11482 | 11664 |
| 12.0 | 9529 | 9471 | 9214 | 9190 | 8950 | 9149 | 9000 | 9192 | 9162 | 9404 |
| 15.0 | 6334 | 6379 | 6125 | 6154 | 5924 | 6147 | 5975 | 6113 | 6016 | 6238 |
| 18.0 | 3185 | 3217 | 3038 | 3057 | 2909 | 3049 | 2913 | 2982 | 2884 | 3019 |
| 21.0 | 1275 | 1358 | 1209 | 1207 | 1147 | 1216 | 1153 | 1167 | 1134 | 1215 |
| 24.0 | 592.4 | 565.1 | 563.1 | 533.6 | 509.8 | 536.3 | 547.0 | 532.1 | 547.7 | 546.5 |
| 27.0 | 351.0 | 347.6 | 331.2 | 327.2 | 320.5 | 333.7 | 335.2 | 344.4 | 343.9 | 351.2 |
| 30.0 | 244.4 | 244.9 | 235.7 | 234.6 | 232.6 | 237.1 | 233.5 | 236.8 | 235.3 | 237.6 |
| 33.0 | 177.4 | 178.8 | 171.5 | 171.3 | 172.1 | 172.5 | 169.1 | 171.4 | 168.8 | 170.6 |
| 36.0 | 135.4 | 136.2 | 132.8 | 133.6 | 133.6 | 135.5 | 133.0 | 134.2 | 132.0 | 132.9 |
| 39.0 | 102.8 | 103.9 | 102.7 | 104.1 | 106.0 | 107.1 | 105.8 | 105.9 | 105.2 | 104.0 |
| 42.0 | 76.61 | 77.76 | 77.53 | 79.01 | 80.84 | 81.60 | 80.38 | 79.93 | 78.94 | 77.35 |
| 45.0 | 53.87 | 55.44 | 55.30 | 56.86 | 57.80 | 58.70 | 57.32 | 56.74 | 54.95 | 54.00 |
| 48.0 | 37.58 | 39.04 | 39.44 | 40.70 | 41.21 | 41.72 | 40.66 | 40.03 | 38.34 | 37.60 |
| 51.0 | 25.02 | 26.10 | 26.67 | 27.77 | 27.80 | 28.17 | 27.29 | 26.93 | 25.62 | 25.19 |
| 54.0 | 16.16 | 17.13 | 17.58 | 18.65 | 18.51 | 18.68 | 17.75 | 17.59 | 16.70 | 16.56 |
| 57.0 | 9.057 | 9.870 | 10.26 | 11.02 | 10.72 | 10.51 | 10.03 | 9.885 | 9.560 | 9.592 |
| 60.0 | 4.963 | 5.478 | 5.776 | 6.261 | 6.171 | 6.066 | 5.798 | 5.478 | 5.185 | 5.170 |
| 63.0 | 3.390 | 3.660 | 3.860 | 4.176 | 4.338 | 4.351 | 4.108 | 3.883 | 3.576 | 3.422 |
| 66.0 | 2.350 | 2.547 | 2.682 | 2.940 | 3.022 | 3.052 | 2.842 | 2.700 | 2.461 | 2.377 |
| 69.0 | 1.598 | 1.723 | 1.820 | 1.987 | 2.043 | 2.051 | 1.899 | 1.802 | 1.653 | 1.605 |
| 72.0 | 1.047 | 1.122 | 1.181 | 1.271 | 1.295 | 1.281 | 1.181 | 1.120 | 1.045 | 1.024 |
| 75.0 | 0.6421 | 0.6747 | 0.7079 | 0.7314 | 0.7236 | 0.6941 | 0.6317 | 0.6046 | 0.5877 | 0.5917 |
| 78.0 | 0.3355 | 0.3426 | 0.3597 | 0.3381 | 0.3074 | 0.2638 | 0.2504 | 0.2333 | 0.2547 | 0.2749 |
| 81.0 | 0.1448 | 0.1757 | 0.1514 | 0.1527 | 0.1269 | 0.1099 | 0.1247 | 0.1080 | 0.1247 | 0.1341 |
| 84.0 | 0.1159 | 0.1403 | 0.1181 | 0.1266 | 0.1115 | 0.1052 | 0.1116 | 0.1043 | 0.1116 | 0.1173 |
| 87.0 | 0.1115 | 0.1050 | 0.1072 | 0.1006 | 0.1050 | 0.1006 | 0.1050 | 0.1006 | 0.1028 | 0.1006 |
| 90.0 | 0.1071 | 0.1050 | 0.1028 | 0.1028 | 0.1028 | 0.1028 | 0.1028 | 0.1028 | 0.1006 | 0.1050 |
| G/C | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 |
| 0.0 | 13753 | 13755 | 13732 | 13738 | 13740 | 13743 | 13743 | 13751 | 13751 | 13753 |
| 3.0 | 13590 | 13607 | 13619 | 13626 | 13643 | 13624 | 13617 | 13551 | 13565 | 13570 |
| 6.0 | 12965 | 13060 | 13103 | 13079 | 13068 | 12934 | 12976 | 12839 | 12902 | 12865 |
| 9.0 | 11682 | 11861 | 11986 | 11851 | 11852 | 11656 | 11689 | 11515 | 11628 | 11554 |
| 12.0 | 9412 | 9579 | 9792 | 9635 | 9654 | 9446 | 9488 | 9283 | 9423 | 9396 |
| 15.0 | 6151 | 6296 | 6570 | 6426 | 6511 | 6352 | 6430 | 6166 | 6383 | 6322 |
| 18.0 | 2966 | 3083 | 3297 | 3179 | 3238 | 3094 | 3198 | 3063 | 3203 | 3142 |
| 21.0 | 1195 | 1252 | 1415 | 1291 | 1398 | 1259 | 1391 | 1275 | 1396 | 1275 |
| 24.0 | 561.8 | 545.9 | 568.6 | 572.1 | 566.4 | 571.5 | 566.0 | 567.8 | 571.8 | 586.2 |
| 27.0 | 342.4 | 337.3 | 335.8 | 323.9 | 326.8 | 323.0 | 328.2 | 327.9 | 346.4 | 349.3 |
| 30.0 | 233.5 | 233.8 | 238.6 | 231.9 | 234.1 | 230.0 | 234.4 | 230.6 | 236.3 | 236.0 |
| 33.0 | 169.2 | 170.4 | 173.9 | 168.7 | 166.5 | 164.8 | 169.3 | 166.2 | 168.4 | 168.1 |
| 36.0 | 131.5 | 131.6 | 133.7 | 129.7 | 127.8 | 126.4 | 129.8 | 127.9 | 129.2 | 129.1 |
| 39.0 | 100.1 | 99.70 | 101.1 | 97.25 | 95.51 | 94.51 | 97.34 | 96.24 | 96.84 | 97.72 |
| 42.0 | 73.85 | 73.74 | 74.92 | 72.13 | 70.78 | 70.61 | 73.11 | 71.64 | 71.98 | 72.26 |
| 45.0 | 51.60 | 52.03 | 52.78 | 50.95 | 50.32 | 49.97 | 52.03 | 50.70 | 51.03 | 50.79 |
| 48.0 | 36.08 | 36.42 | 37.02 | 35.54 | 35.24 | 34.97 | 36.42 | 35.03 | 35.25 | 35.11 |
| 51.0 | 24.10 | 24.26 | 24.60 | 23.66 | 23.74 | 23.30 | 23.60 | 23.28 | 23.41 | 23.25 |
| 54.0 | 15.63 | 15.79 | 16.08 | 15.33 | 15.45 | 15.08 | 15.32 | 15.07 | 15.16 | 14.84 |
| 57.0 | 8.899 | 8.911 | 9.185 | 8.722 | 8.798 | 8.575 | 8.732 | 8.442 | 8.481 | 8.207 |
| 60.0 | 4.732 | 4.808 | 4.930 | 4.654 | 4.751 | 4.702 | 4.848 | 4.764 | 4.706 | 4.558 |
| 63.0 | 3.208 | 3.222 | 3.288 | 3.214 | 3.306 | 3.336 | 3.472 | 3.406 | 3.358 | 3.220 |
| 66.0 | 2.236 | 2.252 | 2.289 | 2.241 | 2.306 | 2.336 | 2.433 | 2.384 | 2.341 | 2.233 |
| 69.0 | 1.528 | 1.540 | 1.559 | 1.532 | 1.563 | 1.591 | 1.646 | 1.607 | 1.570 | 1.499 |
| 72.0 | 0.9969 | 1.011 | 1.017 | 1.007 | 1.011 | 1.023 | 1.041 | 1.010 | 0.9732 | 0.9397 |
| 75.0 | 0.6005 | 0.6157 | 0.6177 | 0.6133 | 0.5979 | 0.5916 | 0.5781 | 0.5501 | 0.5191 | 0.5194 |
| 78.0 | 0.3092 | 0.3164 | 0.3162 | 0.3178 | 0.2899 | 0.2763 | 0.2309 | 0.2173 | 0.1939 | 0.2106 |
| 81.0 | 0.1404 | 0.1649 | 0.1570 | 0.1294 | 0.1026 | 0.1139 | 0.0962 | 0.1137 | 0.1027 | 0.1115 |
| 84.0 | 0.1138 | 0.1360 | 0.1114 | 0.1050 | 0.0853 | 0.1028 | 0.0831 | 0.1028 | 0.0896 | 0.1006 |
| 87.0 | 0.1093 | 0.1071 | 0.0918 | 0.0984 | 0.0853 | 0.0919 | 0.0831 | 0.0940 | 0.0896 | 0.0940 |
| 90.0 | 0.1050 | 0.1050 | 0.0875 | 0.0896 | 0.0875 | 0.0853 | 0.0853 | 0.0896 | 0.0896 | 0.0875 |
| G/C | 300.0 | 315.0 | 330.0 | 345.0 | | | | | | |
| 0.0 | 13751 | 13753 | 13753 | 13755 | | | | | | |
| 3.0 | 13617 | 13615 | 13628 | 13611 | | | | | | |
| 6.0 | 12991 | 13003 | 13089 | 13100 | | | | | | |
| 9.0 | 11805 | 11860 | 12033 | 11983 | | | | | | |
| 12.0 | 9640 | 9704 | 9941 | 9858 | | | | | | |
| 15.0 | 6586 | 6587 | 6812 | 6693 | | | | | | |
| 18.0 | 3334 | 3318 | 3502 | 3406 | | | | | | |
| 21.0 | 1435 | 1345 | 1502 | 1395 | | | | | | |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2018-01-24

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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

| | | | | |
|------|--------|--------|--------|--------|
| 24.0 | 591.7 | 614.2 | 610.1 | 625.5 |
| 27.0 | 364.2 | 364.5 | 375.8 | 366.9 |
| 30.0 | 243.5 | 244.7 | 251.4 | 248.0 |
| 33.0 | 172.4 | 174.4 | 180.4 | 178.9 |
| 36.0 | 132.1 | 133.2 | 136.8 | 135.9 |
| 39.0 | 101.2 | 101.3 | 102.3 | 101.9 |
| 42.0 | 75.01 | 74.93 | 75.93 | 75.76 |
| 45.0 | 52.36 | 52.23 | 53.49 | 53.41 |
| 48.0 | 36.06 | 36.06 | 37.11 | 37.00 |
| 51.0 | 24.01 | 24.07 | 24.56 | 24.44 |
| 54.0 | 15.35 | 15.49 | 15.95 | 15.75 |
| 57.0 | 8.636 | 8.777 | 8.996 | 8.786 |
| 60.0 | 4.663 | 4.737 | 4.862 | 4.787 |
| 63.0 | 3.234 | 3.187 | 3.251 | 3.233 |
| 66.0 | 2.234 | 2.211 | 2.254 | 2.246 |
| 69.0 | 1.498 | 1.495 | 1.524 | 1.532 |
| 72.0 | 0.9449 | 0.9658 | 0.9865 | 1.010 |
| 75.0 | 0.5280 | 0.5652 | 0.5871 | 0.6177 |
| 78.0 | 0.2200 | 0.2740 | 0.2922 | 0.3243 |
| 81.0 | 0.0918 | 0.1139 | 0.1090 | 0.1338 |
| 84.0 | 0.0875 | 0.1006 | 0.0853 | 0.1071 |
| 87.0 | 0.0875 | 0.0919 | 0.0853 | 0.1028 |
| 90.0 | 0.0875 | 0.0875 | 0.0853 | 0.0918 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2018-01-24

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: