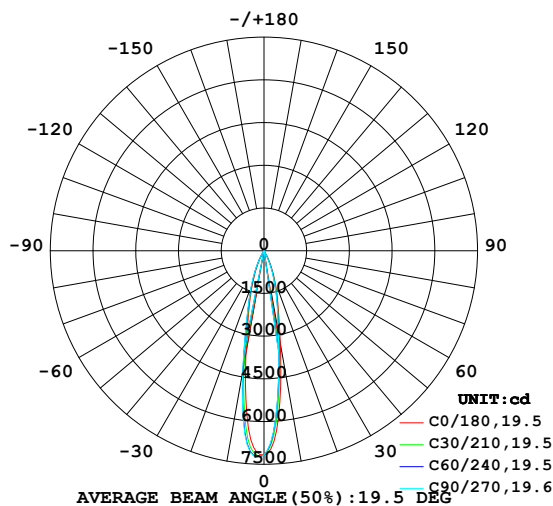


LUMINAIRE PHOTOMETRIC TEST REPORT

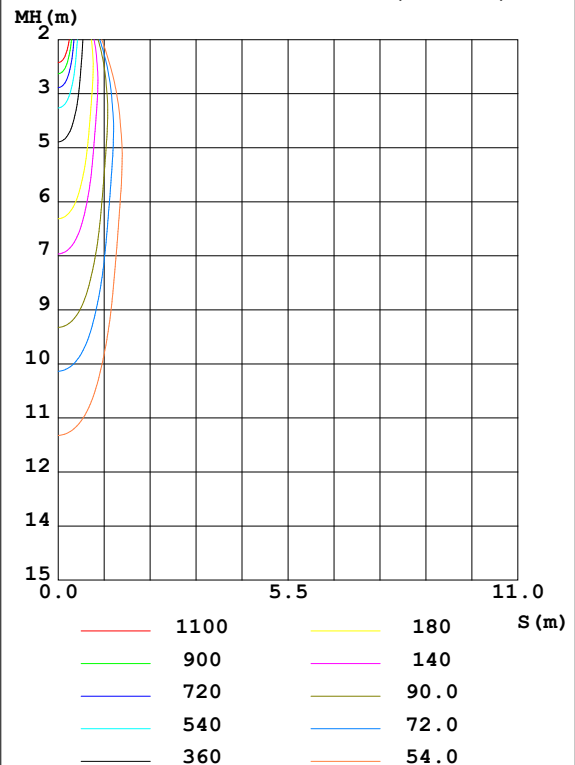
| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 86.56 lm/W | | | |
|-------------------|---------------|----------------------------------|--------|---------------------|-----------|
| MODEL | CITIZEN-4000K | I _{max} (cd) | 7254 | S/MH (C0/180) | 0.35 |
| NOMINAL POWER (W) | 15 | LOR (%) | 100.0 | S/MH (C90/270) | 0.39 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 1314.7 | η UP, DN (C0-180) | 0.0, 44.8 |
| NOMINAL FLUX (lm) | 1314.72 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 55.2 |
| 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 |

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:2019-05-24

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 3305 | 3028 | 2916 | 3140 | 3663 | 4092 | 4333 | 3905 | 0- 10 | 493.3 | 493.3 | 37.5, 37.5 |
| 20 | 1097 | 1016 | 951.0 | 977.0 | 1133 | 1228 | 1298 | 1222 | 10- 20 | 554.7 | 1048 | 79.7, 79.7 |
| 30 | 132.2 | 77.57 | 72.39 | 78.39 | 138.2 | 190.7 | 223.7 | 200.0 | 20- 30 | 249.1 | 1297 | 98.7, 98.7 |
| 40 | 4.126 | 3.452 | 3.162 | 3.337 | 3.818 | 4.648 | 5.575 | 5.281 | 30- 40 | 15.13 | 1312 | 99.8, 99.8 |
| 50 | 0.9810 | 0.9082 | 0.8838 | 0.9383 | 1.170 | 1.363 | 1.508 | 1.247 | 40- 50 | 1.785 | 1314 | 99.9, 99.9 |
| 60 | 0.2255 | 0.1767 | 0.1733 | 0.1919 | 0.2640 | 0.3261 | 0.3452 | 0.2800 | 50- 60 | 0.5299 | 1315 | 100, 100 |
| 70 | 0.0547 | 0.0415 | 0.0526 | 0.0415 | 0.0656 | 0.0700 | 0.0635 | 0.0568 | 60- 70 | 0.1080 | 1315 | 100, 100 |
| 80 | 0.0481 | 0.0415 | 0.0460 | 0.0415 | 0.0502 | 0.0525 | 0.0504 | 0.0502 | 70- 80 | 0.0553 | 1315 | 100, 100 |
| 90 | 0.0437 | 0.0415 | 0.0460 | 0.0415 | 0.0459 | 0.0393 | 0.0416 | 0.0415 | 80- 90 | 0.0519 | 1315 | 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 | | |

Conical surface Flux(90deg): 1313.3 lm

%lum = 99.9%

%lamp = 99.9%

Conical surface Flux(120deg): 1314.5 lm

%lum = 100.0%

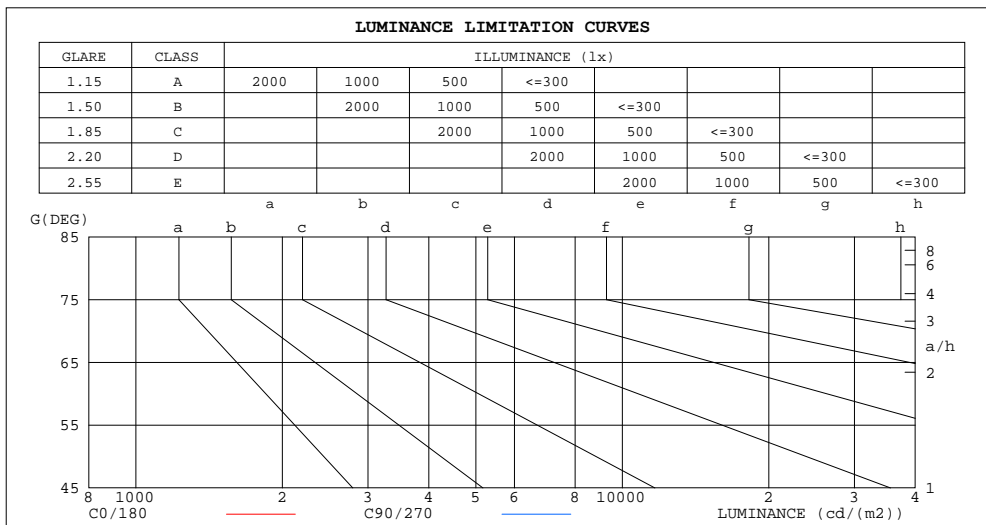
%lamp = 100.0%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2019-05-24

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:

LUMINANCE LIMITATION CURVES

| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 108 | 113 |
| 80 | 60 | 57 |
| 75 | 42 | 42 |
| 70 | 34 | 33 |
| 65 | 39 | 32 |
| 60 | 97 | 74 |
| 55 | 185 | 155 |
| 50 | 328 | 295 |
| 45 | 601 | 518 |

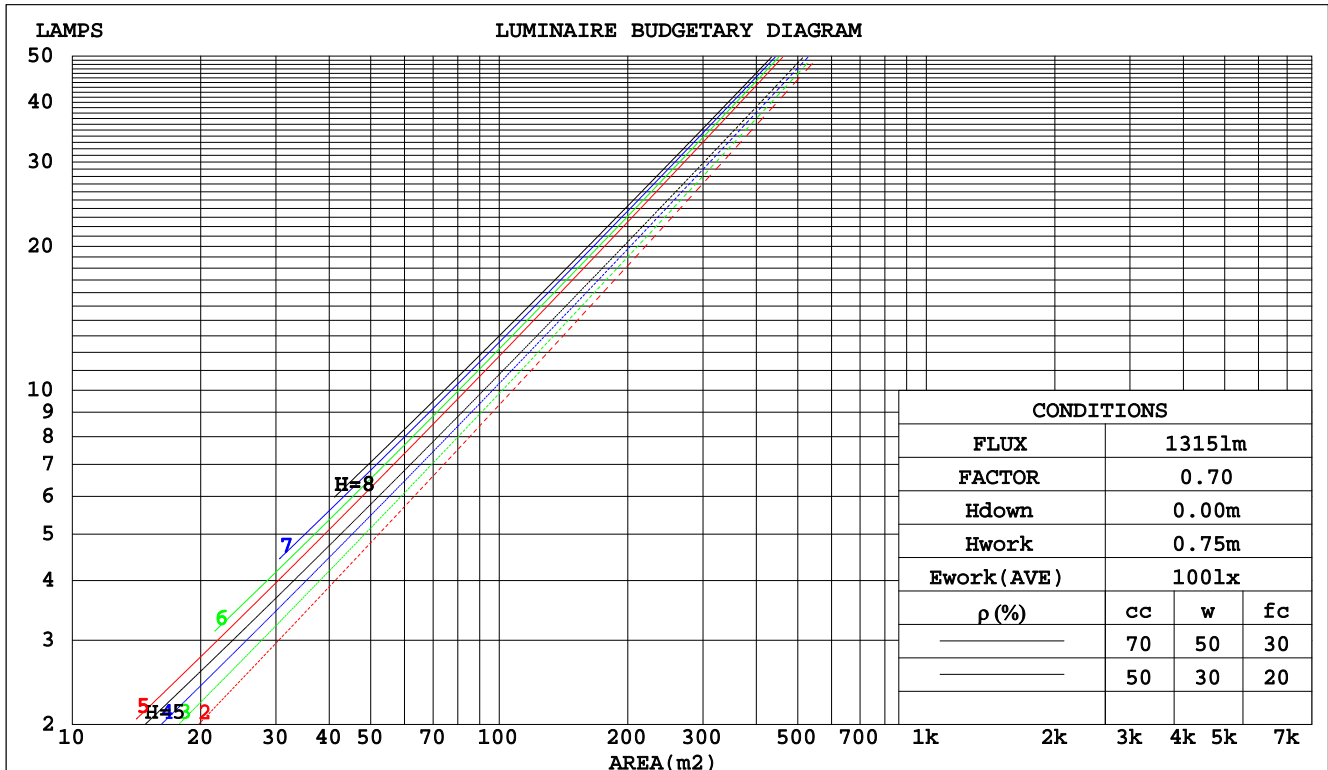
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 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 | .89 | .88 |
| 5.0 | .96 | .92 | .89 | .95 | .92 | .89 | .94 | .91 | .88 | .92 | .90 | .88 | .91 | .89 | .87 | .86 |
| 6.0 | .93 | .89 | .86 | .92 | .89 | .86 | .91 | .88 | .85 | .90 | .87 | .85 | .89 | .86 | .84 | .83 |
| 7.0 | .90 | .86 | .83 | .90 | .86 | .83 | .89 | .85 | .83 | .88 | .85 | .82 | .87 | .84 | .82 | .81 |
| 8.0 | .88 | .84 | .81 | .87 | .83 | .81 | .86 | .83 | .80 | .85 | .82 | .80 | .85 | .82 | .80 | .79 |
| 9.0 | .85 | .81 | .79 | .85 | .81 | .78 | .84 | .81 | .78 | .83 | .80 | .78 | .83 | .80 | .78 | .77 |
| 10.0 | .83 | .79 | .76 | .83 | .79 | .76 | .82 | .79 | .76 | .81 | .78 | .76 | .81 | .78 | .76 | .75 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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:

WEC AND CCEC

| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 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 | .092 | .054 | .017 | |
| 2.0 | .123 | .067 | .021 | .118 | .065 | .020 | .107 | .060 | .019 | .098 | .055 | .017 | .089 | .051 | .016 | |
| 3.0 | .114 | .061 | .018 | .110 | .059 | .018 | .101 | .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 | .092 | .048 | .014 | .086 | .045 | .013 | .081 | .043 | .013 | |
| 6.0 | .096 | .048 | .014 | .093 | .047 | .013 | .088 | .045 | .013 | .083 | .043 | .013 | .078 | .041 | .012 | |
| 7.0 | .091 | .045 | .013 | .088 | .044 | .013 | .084 | .042 | .012 | .080 | .041 | .012 | .076 | .039 | .012 | |
| 8.0 | .087 | .042 | .012 | .084 | .042 | .012 | .080 | .040 | .011 | .077 | .039 | .011 | .073 | .038 | .011 | |
| 9.0 | .083 | .040 | .011 | .081 | .039 | .011 | .077 | .038 | .011 | .074 | .037 | .011 | .071 | .036 | .010 | |
| 10.0 | .079 | .038 | .011 | .078 | .038 | .010 | .075 | .037 | .010 | .072 | .036 | .010 | .069 | .035 | .010 | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|--|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| pfc | 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 | .096 | .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 | .095 | .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 | .031 | .022 | .015 | .010 | .007 | .005 | | |
| 9.0 | .082 | .055 | .036 | .071 | .047 | .031 | .049 | .033 | .022 | .029 | .020 | .013 | .009 | .006 | .004 | | |
| 10.0 | .078 | .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:2019-05-24

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:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|--------------------|----------------|-------|-------------|------|------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | | | | | | | | | |
| NAME: VF68-13W-940-18° | | | | | TYPE:Downlight | | | SERIAL No.: | | |
| SPEC.:4000K | | | | | DIM.: φ77mm*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 | -6.6 | -5.9 | -6.4 | -5.8 | -5.6 | -9.9 | -9.2 | -9.7 | -9.1 | -8.9 |
| 3H | -6.7 | -6.1 | -6.5 | -5.9 | -5.7 | -10.0 | -9.4 | -9.8 | -9.2 | -9.0 |
| 4H | -6.8 | -6.2 | -6.5 | -6.0 | -5.8 | -10.1 | -9.5 | -9.8 | -9.3 | -9.1 |
| 6H | -6.8 | -6.3 | -6.6 | -6.1 | -5.9 | -10.1 | -9.6 | -9.8 | -9.4 | -9.1 |
| 8H | -6.9 | -6.4 | -6.6 | -6.1 | -5.9 | -10.1 | -9.6 | -9.8 | -9.4 | -9.1 |
| 12H | -6.9 | -6.4 | -6.6 | -6.2 | -5.9 | -10.1 | -9.6 | -9.8 | -9.4 | -9.1 |
| 4H 2H | -6.8 | -6.2 | -6.5 | -6.0 | -5.8 | -10.0 | -9.5 | -9.8 | -9.3 | -9.1 |
| 3H | -6.9 | -6.4 | -6.6 | -6.2 | -5.9 | -10.2 | -9.7 | -9.9 | -9.4 | -9.2 |
| 4H | -7.0 | -6.6 | -6.7 | -6.3 | -6.0 | -10.3 | -9.8 | -9.9 | -9.5 | -9.2 |
| 6H | -7.1 | -6.7 | -6.7 | -6.4 | -6.0 | -10.3 | -9.9 | -10.0 | -9.6 | -9.3 |
| 8H | -7.1 | -6.8 | -6.8 | -6.4 | -6.1 | -10.3 | -10.0 | -9.9 | -9.6 | -9.2 |
| 12H | -7.2 | -6.8 | -6.8 | -6.5 | -6.1 | -10.3 | -10.0 | -9.9 | -9.6 | -9.2 |
| 8H 4H | -7.2 | -6.8 | -6.8 | -6.4 | -6.1 | -10.4 | -10.0 | -10.0 | -9.7 | -9.3 |
| 6H | -7.3 | -6.9 | -6.8 | -6.6 | -6.1 | -10.4 | -10.1 | -10.0 | -9.7 | -9.3 |
| 8H | -7.3 | -7.0 | -6.8 | -6.6 | -6.2 | -10.4 | -10.1 | -10.0 | -9.7 | -9.3 |
| 12H | -7.3 | -7.1 | -6.8 | -6.6 | -6.2 | -10.3 | -10.1 | -9.9 | -9.7 | -9.2 |
| 12H 4H | -7.2 | -6.9 | -6.8 | -6.5 | -6.1 | -10.5 | -10.1 | -10.1 | -9.7 | -9.4 |
| 6H | -7.3 | -7.0 | -6.9 | -6.6 | -6.2 | -10.5 | -10.2 | -10.0 | -9.8 | -9.4 |
| 8H | -7.3 | -7.1 | -6.9 | -6.7 | -6.2 | -10.4 | -10.2 | -10.0 | -9.8 | -9.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 3.4 / - 7.3 | | | | | + 2.5 / - 6.5 | | | | |
| 1.5H | + 5.2 / - 5.9 | | | | | + 4.0 / - 5.2 | | | | |
| 2.0H | + 5.4 / - 5.8 | | | | | + 5.0 / - 5.3 | | | | |

CIE Pub.117, 1315 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.0$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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:

UTILIZATION FACTORS TABLE

| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

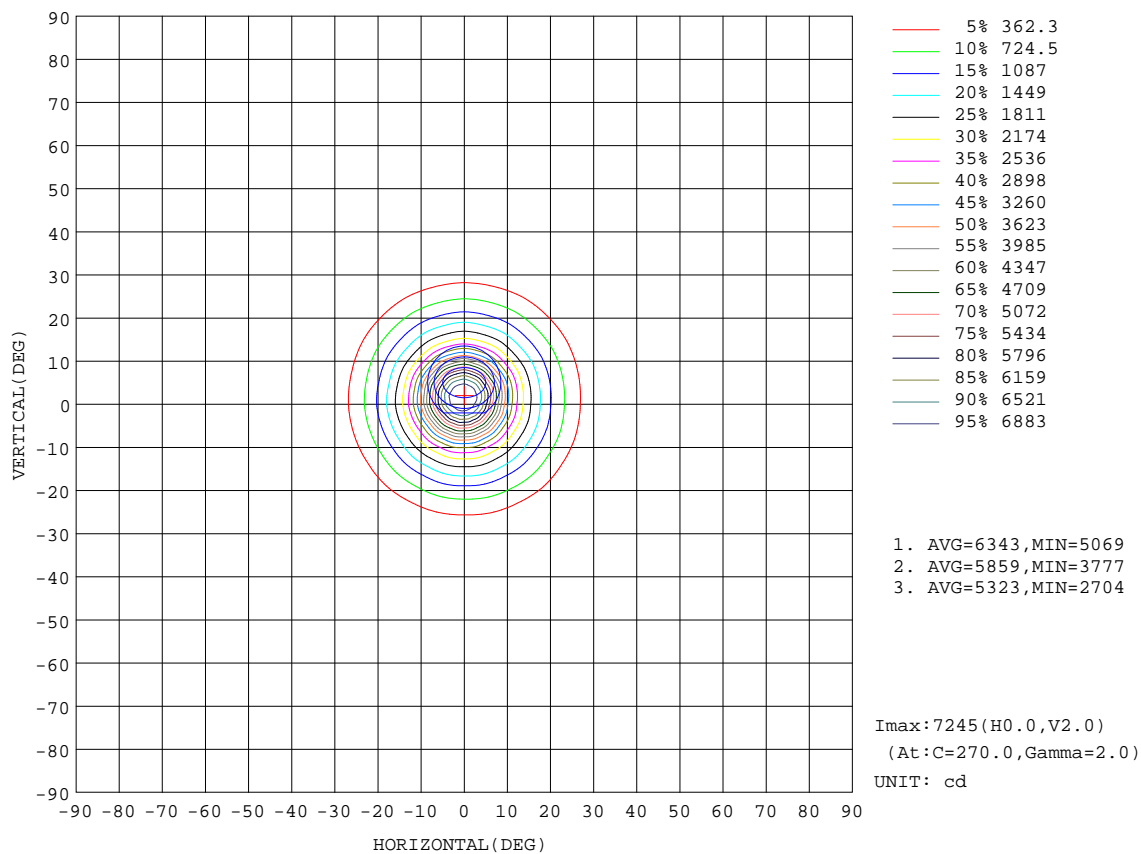
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 91 | 86 | 83 | 91 | 86 | 82 | 90 | 85 | 82 | 79 |
| 0.80 | 98 | 93 | 90 | 98 | 93 | 90 | 97 | 92 | 89 | 86 |
| 1.00 | 102 | 97 | 94 | 101 | 97 | 94 | 100 | 96 | 93 | 90 |
| 1.25 | 105 | 101 | 98 | 104 | 100 | 97 | 103 | 99 | 97 | 93 |
| 1.50 | 108 | 104 | 101 | 107 | 103 | 100 | 105 | 102 | 99 | 95 |
| 2.00 | 110 | 106 | 103 | 109 | 105 | 103 | 106 | 103 | 101 | 96 |
| 2.50 | 111 | 108 | 105 | 110 | 107 | 104 | 107 | 104 | 103 | 97 |
| 3.00 | 113 | 110 | 107 | 111 | 108 | 106 | 108 | 106 | 104 | 98 |
| 4.00 | 115 | 112 | 110 | 113 | 111 | 109 | 109 | 107 | 106 | 99 |
| 5.00 | 116 | 114 | 112 | 114 | 112 | 111 | 110 | 109 | 108 | 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:2019-05-24

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:

ISOCANDELA DIAGRAM

| | | |
|--|--------------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: ϕ 77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

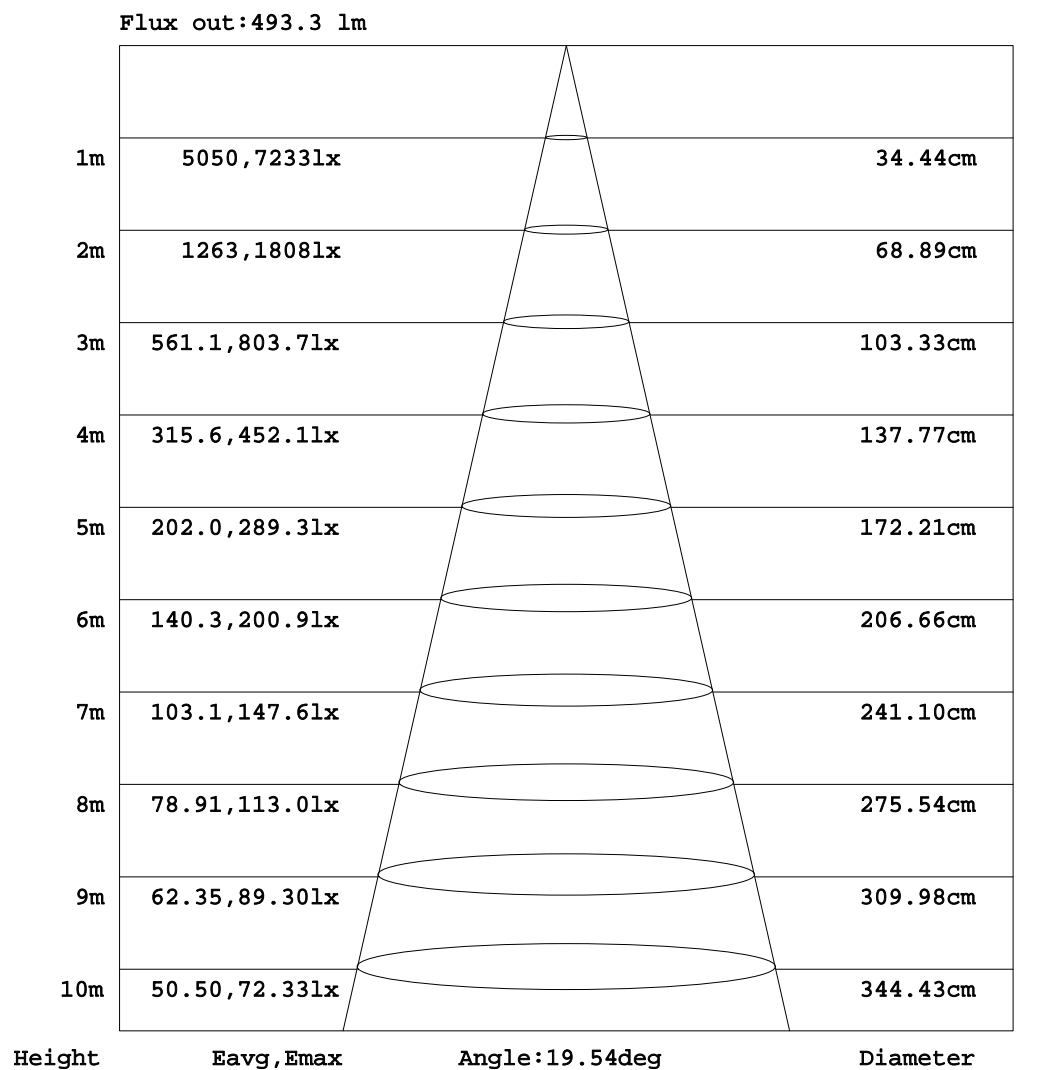


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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:

AAI Figure

| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |



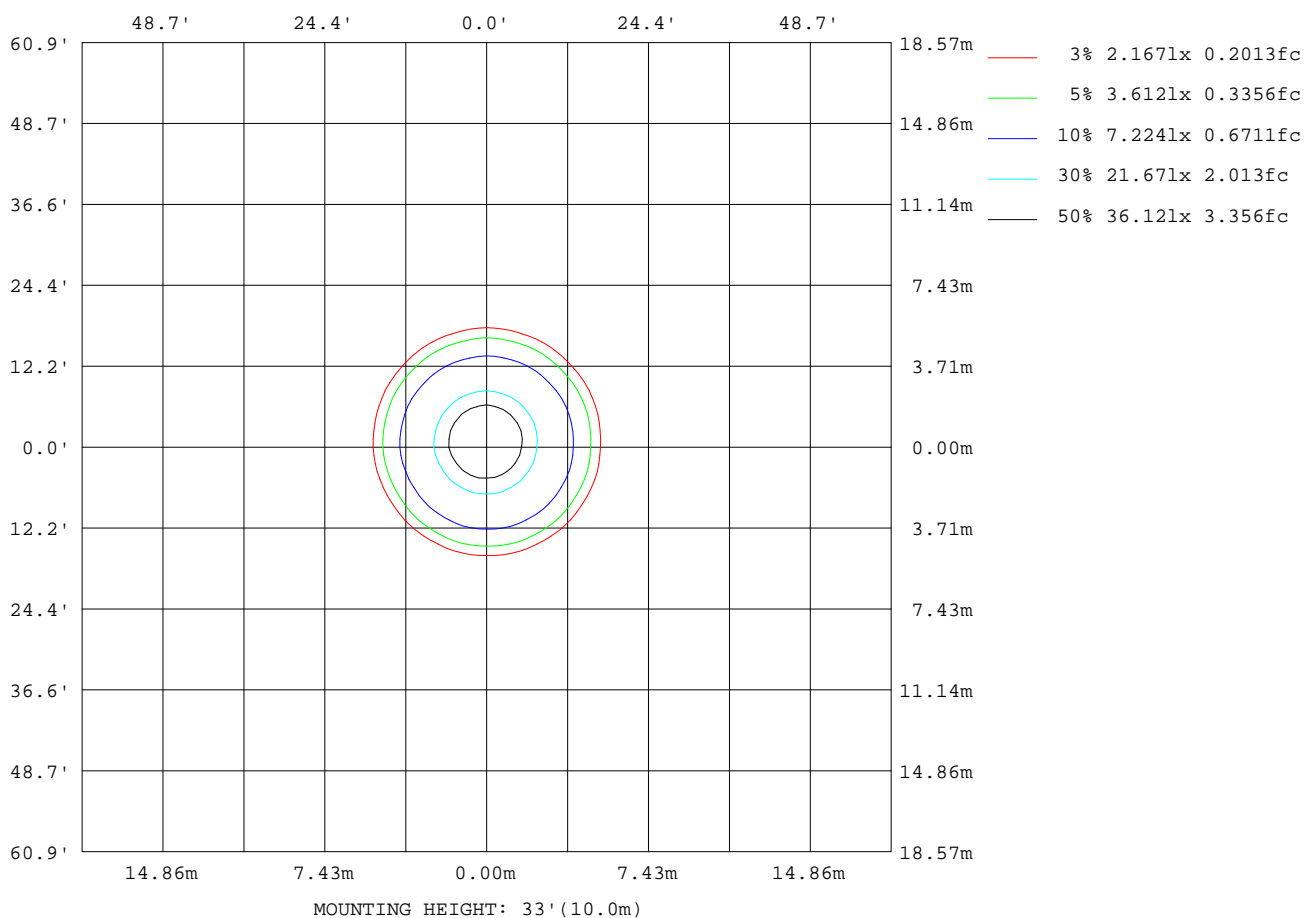
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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:

ISOLUX DIAGRAM

| | | |
|--|--|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: $\phi 77\text{mm} \times \text{H}100\text{mm}$ | |
| MFR.: NEKO LIGHTING AG | | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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:

LED Avg.L Report

| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0688A P:15.19W PF:0.9155 Freq:50.00Hz Lamp Flux:1314.72x1 lm | | |
| NAME: VF68-13W-940-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

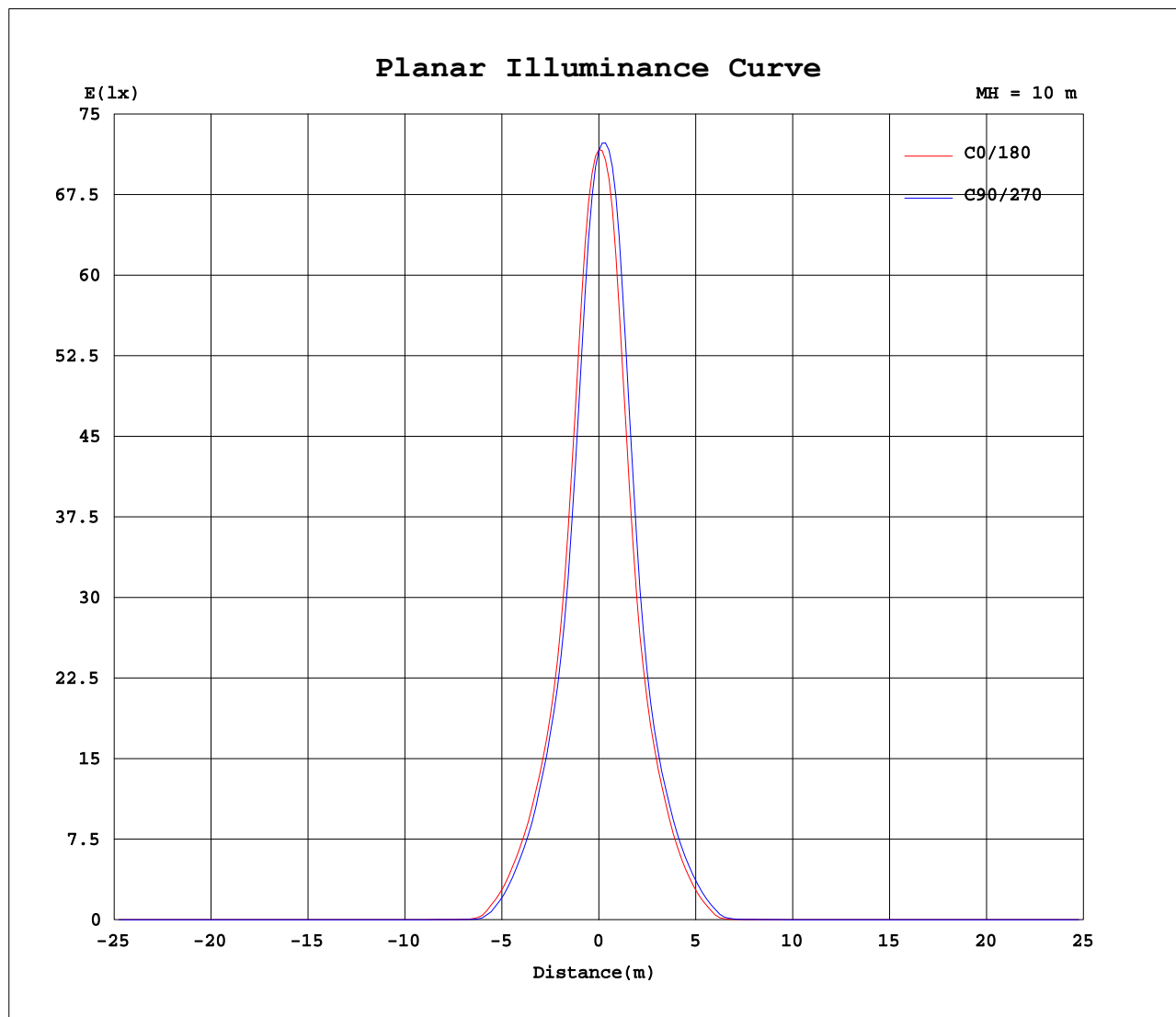
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 43 |
| L_0~180 (75) av | 44 |
| L_0~180 (85) av | 108 |
| L_90~270 (65) av | 49 |
| L_90~270 (75) av | 45 |
| L_90~270 (85) av | 111 |
| L_45 (65) av | 42 |
| L_45 (75) av | 41 |
| L_45 (85) av | 110 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2019-05-24

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: 2019-05-24

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:

```

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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:

```