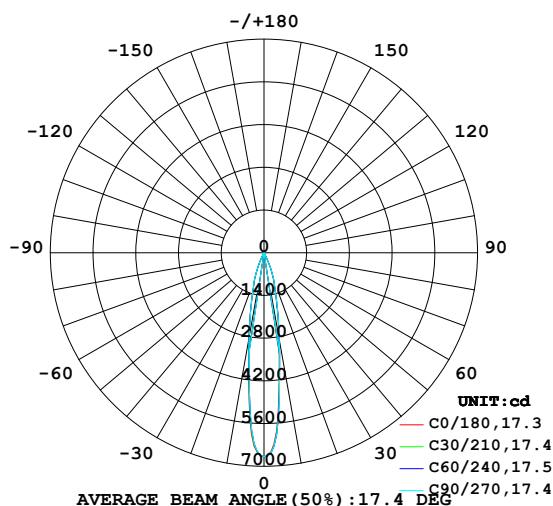


LUMINAIRE PHOTOMETRIC TEST REPORT

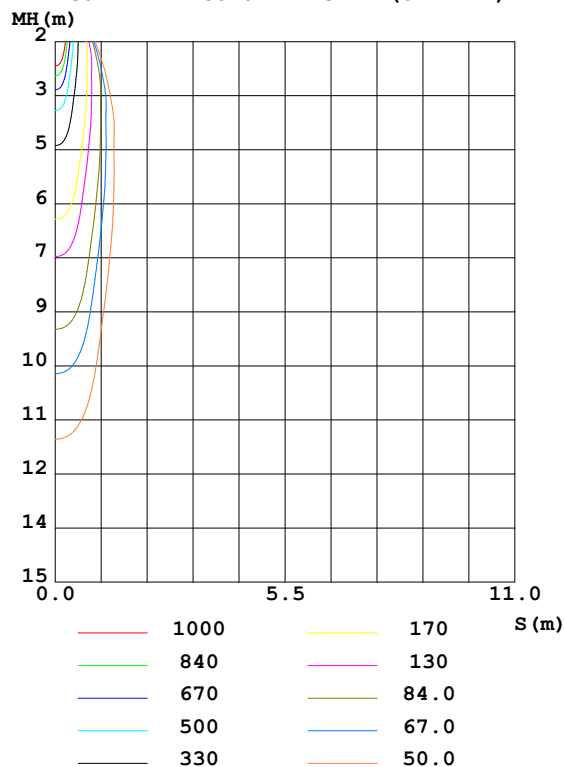
| | | |
|--|--------------------|-------------|
| Test:U:220.7V I:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 70.87 lm/W | | | |
|-------------------|---------------|----------------------------------|--------|---------------------|-----------|
| MODEL | CITIZEN-2700K | I _{max} (cd) | 6688 | S/MH (C0/180) | 0.30 |
| NOMINAL POWER (W) | 15 | LOR (%) | 100.0 | S/MH (C90/270) | 0.30 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 1029.0 | η UP, DN (C0-180) | 0.0, 50.9 |
| NOMINAL FLUX (lm) | 1029.01 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 49.1 |
| 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:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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 | 2812 | 2930 | 2894 | 2863 | 2869 | 2762 | 2800 | 2782 | 0- 10 | 418.6 | 418.6 | 40.7,40.7 |
| 20 | 897.5 | 937.0 | 936.8 | 914.8 | 889.7 | 853.4 | 877.4 | 881.3 | 10- 20 | 441.9 | 860.5 | 83.6,83.6 |
| 30 | 46.68 | 60.11 | 52.93 | 54.38 | 49.99 | 41.18 | 42.22 | 45.06 | 20- 30 | 164.8 | 1025 | 99.6,99.6 |
| 40 | 0.7940 | 1.436 | 0.8412 | 0.7980 | 0.7747 | 0.7913 | 0.6424 | 0.6677 | 30- 40 | 2.826 | 1028 | 99.9,99.9 |
| 50 | 0.2281 | 0.4321 | 0.2921 | 0.4100 | 0.4900 | 0.4325 | 0.2832 | 0.3026 | 40- 50 | 0.3990 | 1029 | 100,100 |
| 60 | 0.1705 | 0.2172 | 0.1600 | 0.2576 | 0.3193 | 0.2985 | 0.1682 | 0.2110 | 50- 60 | 0.2842 | 1029 | 100,100 |
| 70 | 0.0597 | 0.0341 | 0.0427 | 0.0298 | 0.0362 | 0.0362 | 0.0213 | 0.0363 | 60- 70 | 0.1628 | 1029 | 100,100 |
| 80 | 0.0447 | 0.0320 | 0.0320 | 0.0277 | 0.0320 | 0.0277 | 0.0170 | 0.0234 | 70- 80 | 0.0318 | 1029 | 100,100 |
| 90 | 0.0405 | 0.0362 | 0.0320 | 0.0320 | 0.0362 | 0.0192 | 0.0170 | 0.0192 | 80- 90 | 0.0293 | 1029 | 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): 1028.3 lm

%lum = 99.9%

%lamp = 99.9%

Conical surface Flux(120deg): 1028.8 lm

%lum = 100.0%

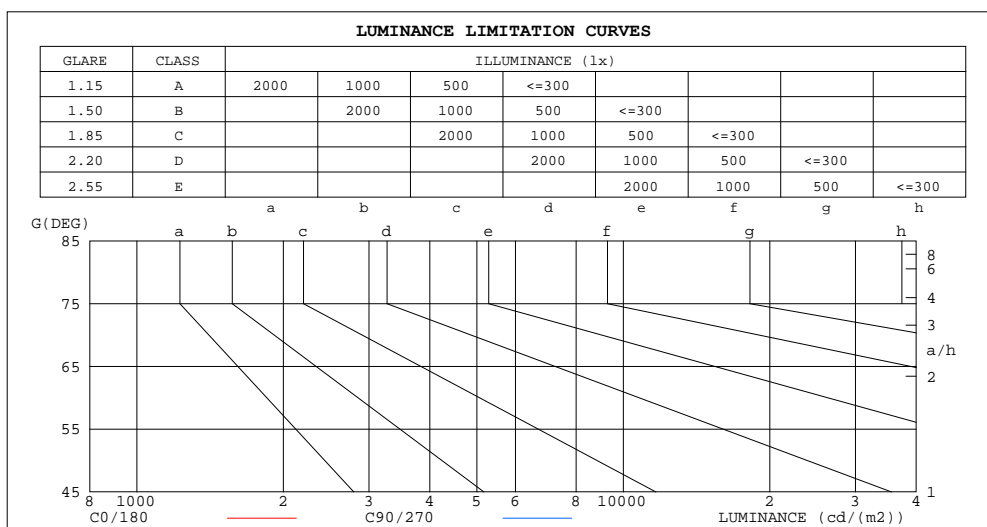
%lamp = 100.0%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 100 | 68 |
| 80 | 55 | 40 |
| 75 | 41 | 28 |
| 70 | 37 | 27 |
| 65 | 72 | 53 |
| 60 | 73 | 69 |
| 55 | 71 | 86 |
| 50 | 76 | 98 |
| 45 | 104 | 137 |

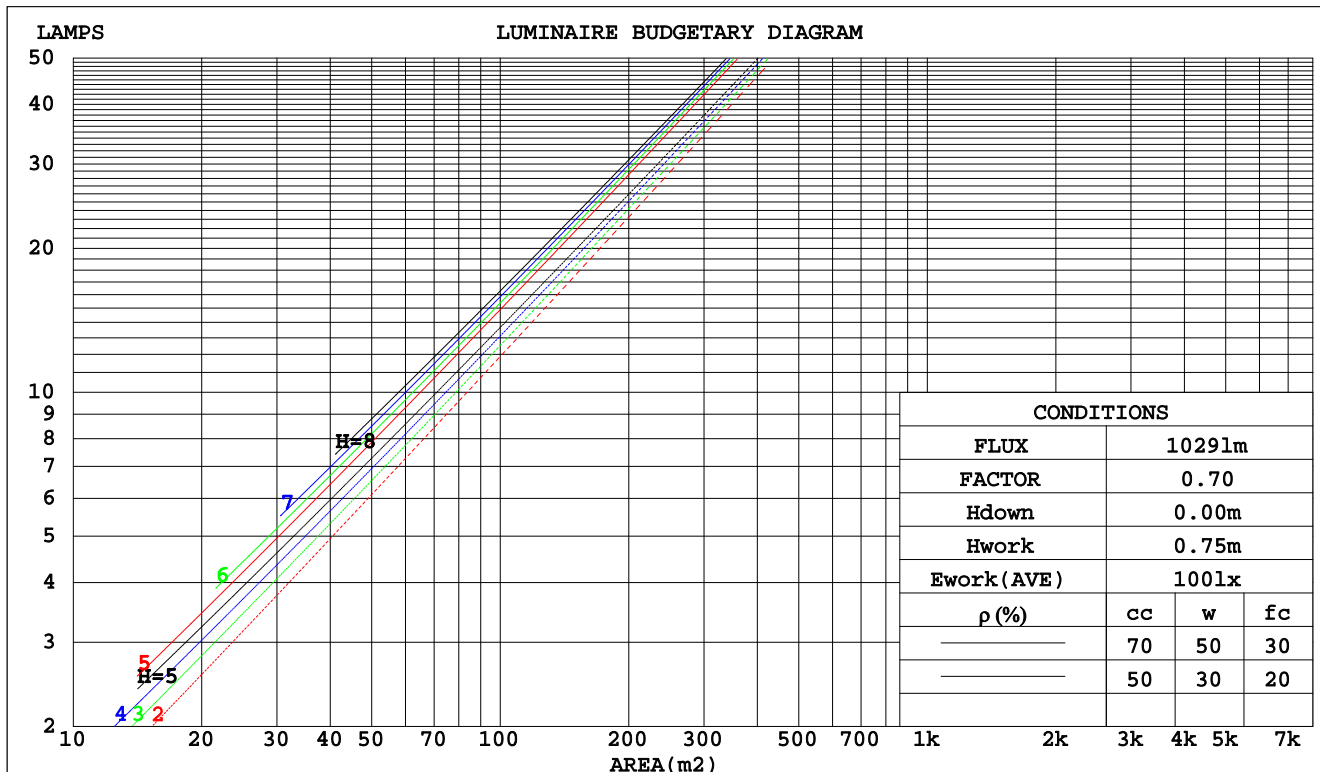
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | 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 | 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 | 1.10 | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.00 | .99 | .99 | .97 |
| 2.0 | 1.08 | 1.06 | 1.03 | 1.07 | 1.04 | 1.02 | 1.04 | 1.02 | .00 | 1.01 | .99 | .98 | .98 | .97 | .96 | .94 |
| 3.0 | 1.04 | 1.01 | .98 | 1.03 | .00 | .97 | 1.00 | .98 | .96 | .98 | .96 | .94 | .96 | .94 | .93 | .92 |
| 4.0 | 1.01 | .97 | .94 | .00 | .96 | .94 | .98 | .95 | .92 | .96 | .93 | .91 | .94 | .92 | .90 | .89 |
| 5.0 | .97 | .93 | .91 | .96 | .93 | .90 | .95 | .92 | .90 | .93 | .91 | .89 | .92 | .90 | .88 | .87 |
| 6.0 | .94 | .90 | .88 | .94 | .90 | .87 | .92 | .89 | .87 | .91 | .88 | .86 | .90 | .88 | .86 | .85 |
| 7.0 | .92 | .88 | .85 | .91 | .87 | .85 | .90 | .87 | .84 | .89 | .86 | .84 | .88 | .86 | .84 | .83 |
| 8.0 | .89 | .85 | .83 | .89 | .85 | .83 | .88 | .85 | .82 | .87 | .84 | .82 | .86 | .84 | .82 | .81 |
| 9.0 | .87 | .83 | .81 | .86 | .83 | .80 | .86 | .82 | .80 | .85 | .82 | .80 | .84 | .82 | .80 | .79 |
| 10.0 | .85 | .81 | .79 | .84 | .81 | .78 | .84 | .80 | .78 | .83 | .80 | .78 | .83 | .80 | .78 | .77 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | 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 | .130 | .074 | .023 | .123 | .070 | .022 | .111 | .064 | .020 | .099 | .057 | .018 | .089 | .052 | .017 | |
| 2.0 | .119 | .065 | .020 | .114 | .063 | .019 | .104 | .058 | .018 | .094 | .053 | .017 | .086 | .049 | .015 | |
| 3.0 | .111 | .059 | .018 | .106 | .057 | .017 | .098 | .053 | .016 | .090 | .049 | .015 | .083 | .046 | .014 | |
| 4.0 | .103 | .054 | .016 | .100 | .052 | .015 | .093 | .049 | .015 | .086 | .046 | .014 | .080 | .043 | .013 | |
| 5.0 | .097 | .049 | .014 | .094 | .048 | .014 | .088 | .046 | .013 | .082 | .043 | .013 | .077 | .041 | .012 | |
| 6.0 | .092 | .046 | .013 | .089 | .045 | .013 | .084 | .043 | .013 | .079 | .041 | .012 | .075 | .039 | .012 | |
| 7.0 | .087 | .043 | .012 | .085 | .042 | .012 | .080 | .041 | .012 | .076 | .039 | .011 | .072 | .037 | .011 | |
| 8.0 | .083 | .041 | .011 | .081 | .040 | .011 | .077 | .038 | .011 | .073 | .037 | .011 | .070 | .036 | .010 | |
| 9.0 | .079 | .038 | .011 | .077 | .038 | .011 | .074 | .037 | .010 | .071 | .035 | .010 | .068 | .034 | .010 | |
| 10.0 | .076 | .036 | .010 | .074 | .036 | .010 | .071 | .035 | .010 | .068 | .034 | .010 | .066 | .033 | .009 | |

| 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 | .149 | .144 | .135 | .128 | .098 | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .017 | | |
| 2.0 | .149 | .133 | .119 | .128 | .114 | .103 | .088 | .079 | .072 | .051 | .046 | .042 | .016 | .015 | .014 | | |
| 3.0 | .134 | .113 | .097 | .115 | .098 | .084 | .079 | .068 | .059 | .045 | .040 | .035 | .015 | .013 | .011 | | |
| 4.0 | .121 | .098 | .080 | .104 | .084 | .070 | .071 | .059 | .049 | .041 | .034 | .029 | .013 | .011 | .010 | | |
| 5.0 | .110 | .085 | .067 | .095 | .074 | .058 | .065 | .052 | .041 | .038 | .030 | .024 | .012 | .010 | .008 | | |
| 6.0 | .101 | .075 | .057 | .087 | .065 | .049 | .060 | .046 | .035 | .035 | .027 | .021 | .011 | .009 | .007 | | |
| 7.0 | .093 | .067 | .048 | .080 | .058 | .042 | .055 | .041 | .030 | .032 | .024 | .018 | .010 | .008 | .006 | | |
| 8.0 | .087 | .060 | .042 | .075 | .052 | .036 | .052 | .037 | .026 | .030 | .022 | .015 | .010 | .007 | .005 | | |
| 9.0 | .081 | .054 | .036 | .070 | .047 | .032 | .048 | .033 | .023 | .028 | .020 | .013 | .009 | .006 | .004 | | |
| 10.0 | .076 | .049 | .032 | .065 | .043 | .028 | .045 | .030 | .020 | .026 | .018 | .012 | .009 | .006 | .004 | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | | | | | | | | | |
| NAME: VF68-13W-927-18° | | | | | TYPE:Downlight | | | SERIAL No.: | | |
| SPEC.:2700K | | | | | 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 | -15.2 | -14.6 | -15.0 | -14.4 | -14.3 | -14.1 | -13.5 | -13.9 | -13.4 | -13.2 |
| 3H | -15.0 | -14.4 | -14.8 | -14.2 | -14.1 | -14.1 | -13.6 | -13.9 | -13.4 | -13.2 |
| 4H | -15.0 | -14.4 | -14.7 | -14.2 | -14.0 | -14.2 | -13.6 | -13.9 | -13.4 | -13.2 |
| 6H | -14.9 | -14.4 | -14.6 | -14.1 | -13.9 | -14.2 | -13.7 | -13.9 | -13.4 | -13.2 |
| 8H | -14.8 | -14.3 | -14.5 | -14.0 | -13.8 | -14.2 | -13.7 | -13.9 | -13.4 | -13.2 |
| 12H | -14.6 | -14.1 | -14.3 | -13.9 | -13.6 | -14.1 | -13.6 | -13.8 | -13.4 | -13.1 |
| 4H 2H | -15.0 | -14.5 | -14.8 | -14.3 | -14.1 | -14.1 | -13.6 | -13.9 | -13.4 | -13.2 |
| 3H | -14.8 | -14.4 | -14.5 | -14.1 | -13.8 | -14.1 | -13.6 | -13.8 | -13.4 | -13.1 |
| 4H | -14.8 | -14.4 | -14.5 | -14.1 | -13.8 | -14.1 | -13.7 | -13.8 | -13.4 | -13.1 |
| 6H | -14.6 | -14.3 | -14.3 | -13.9 | -13.6 | -14.1 | -13.7 | -13.7 | -13.4 | -13.0 |
| 8H | -14.5 | -14.1 | -14.1 | -13.8 | -13.4 | -14.0 | -13.7 | -13.6 | -13.3 | -13.0 |
| 12H | -14.2 | -13.9 | -13.8 | -13.5 | -13.1 | -13.9 | -13.6 | -13.5 | -13.2 | -12.8 |
| 8H 4H | -14.9 | -14.5 | -14.5 | -14.2 | -13.8 | -14.2 | -13.9 | -13.8 | -13.5 | -13.2 |
| 6H | -14.6 | -14.3 | -14.2 | -13.9 | -13.5 | -14.1 | -13.8 | -13.7 | -13.4 | -13.0 |
| 8H | -14.4 | -14.1 | -13.9 | -13.7 | -13.2 | -14.0 | -13.7 | -13.6 | -13.3 | -12.9 |
| 12H | -13.9 | -13.7 | -13.5 | -13.3 | -12.8 | -13.8 | -13.5 | -13.3 | -13.1 | -12.6 |
| 12H 4H | -14.9 | -14.6 | -14.5 | -14.2 | -13.8 | -14.3 | -13.9 | -13.9 | -13.6 | -13.2 |
| 6H | -14.6 | -14.4 | -14.2 | -14.0 | -13.5 | -14.1 | -13.9 | -13.7 | -13.5 | -13.0 |
| 8H | -14.3 | -14.1 | -13.9 | -13.7 | -13.2 | -14.0 | -13.7 | -13.5 | -13.3 | -12.8 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 2.0 / - 2.4 | | | | | + 1.9 / - 2.6 | | | | |
| 1.5H | + 3.6 / - 2.3 | | | | | + 3.3 / - 2.5 | | | | |
| 2.0H | + 0.6 / - 0.9 | | | | | + 1.5 / - 1.8 | | | | |

CIE Pub.117, 1029 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.1$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

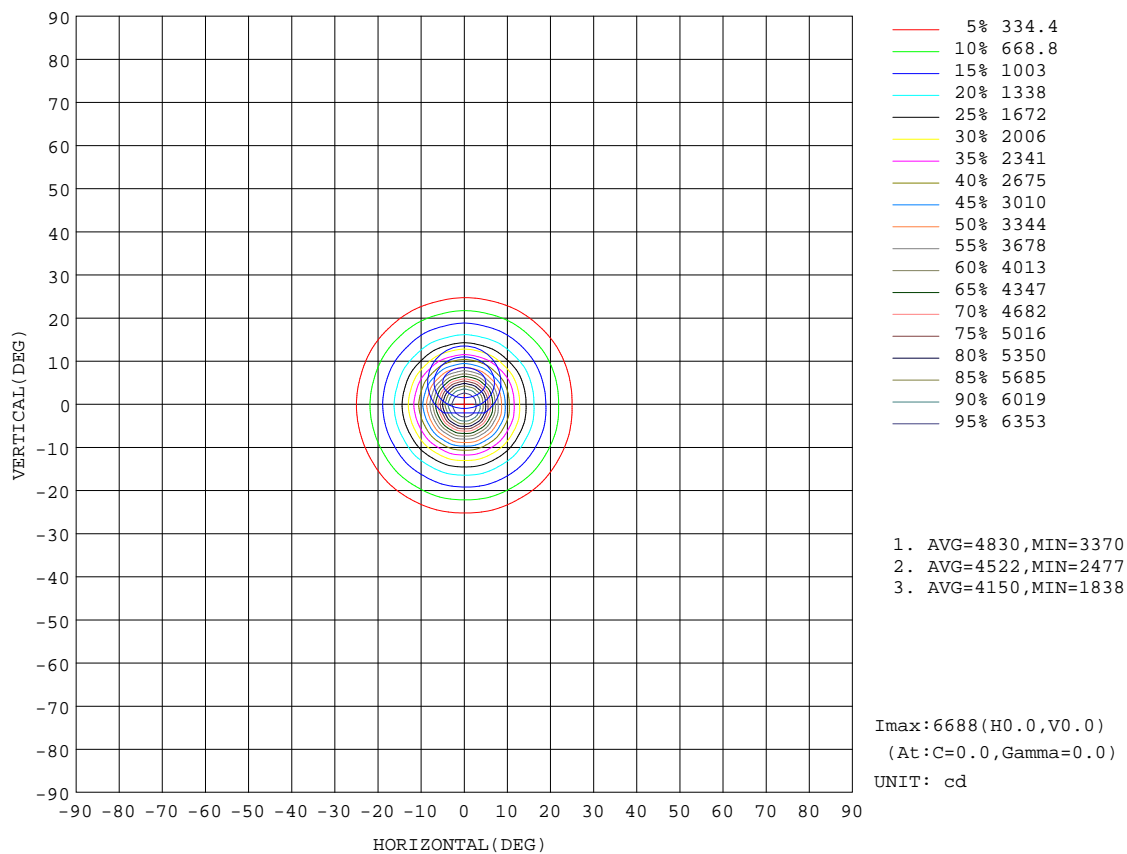
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 92 | 86 | 83 | 91 | 86 | 82 | 90 | 85 | 82 | 79 |
| 0.80 | 98 | 93 | 90 | 98 | 93 | 90 | 97 | 92 | 90 | 86 |
| 1.00 | 102 | 97 | 94 | 101 | 97 | 94 | 100 | 96 | 93 | 90 |
| 1.25 | 106 | 101 | 98 | 105 | 100 | 98 | 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 | 105 | 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:25.2DEG
 Operators:Cao Chengpei
 Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: ϕ 77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

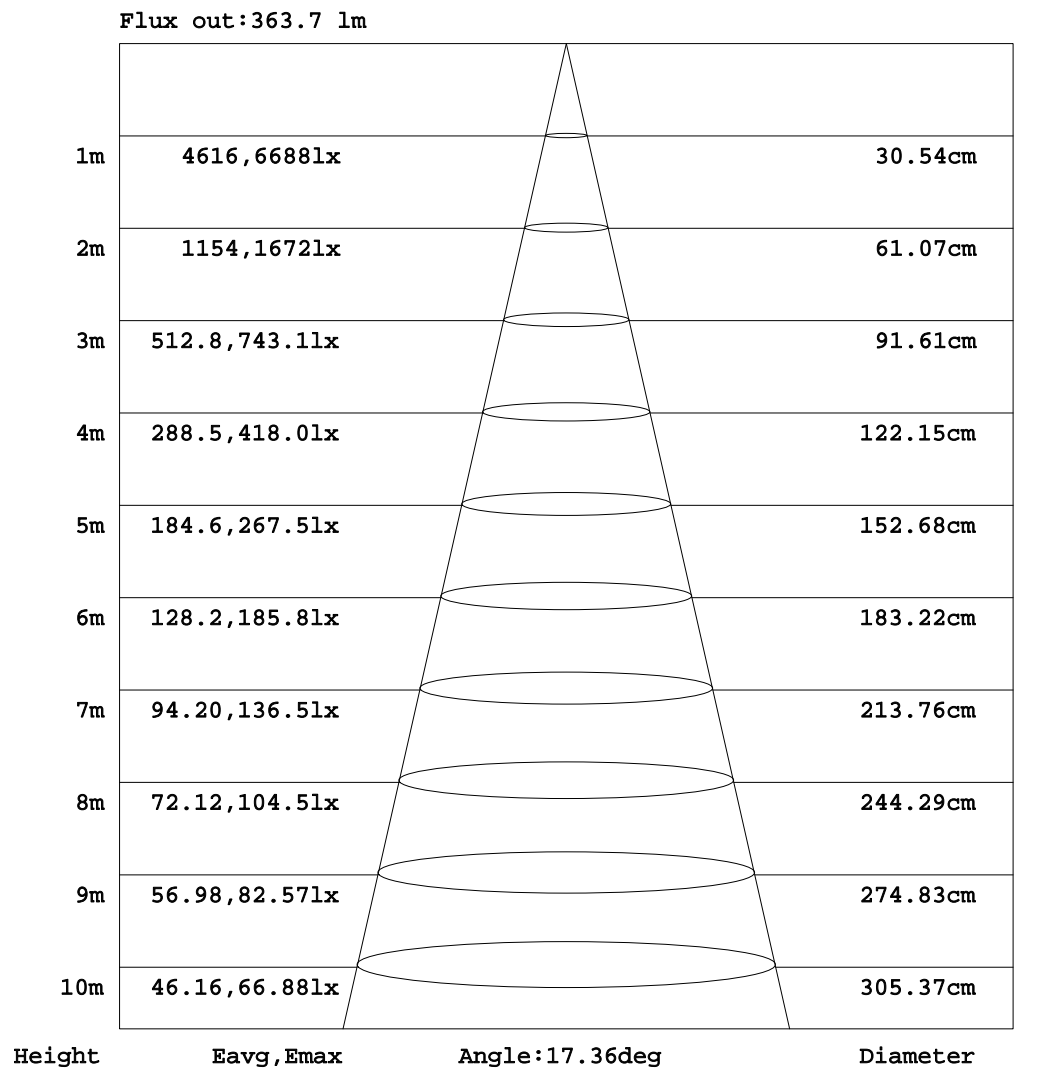


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: φ77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |



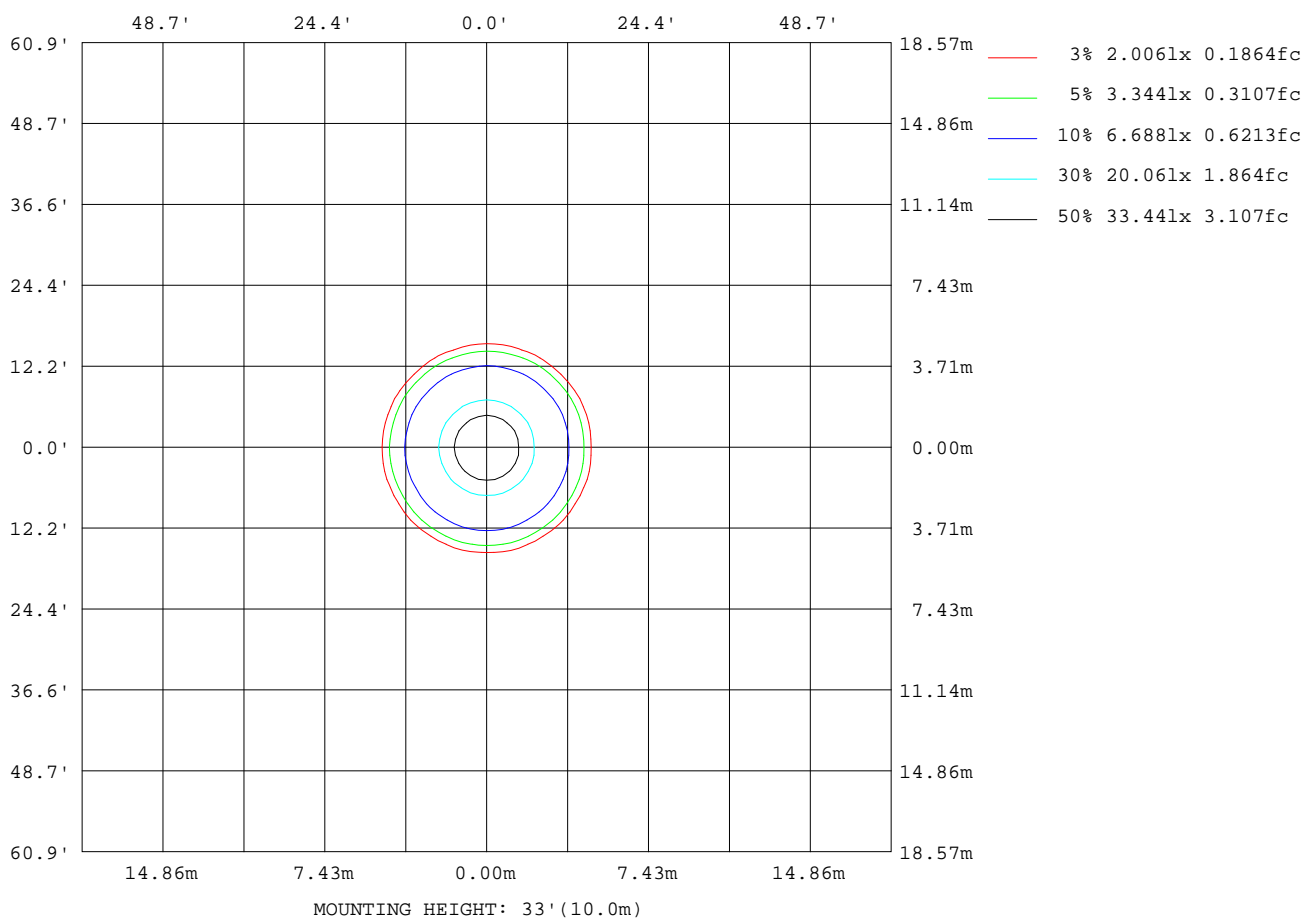
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: ϕ 77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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:0.0716A P:14.52W PF:0.9184 Freq:50.00Hz Lamp Flux:1029.01x1 lm | | |
| NAME: VF68-13W-927-18° | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: ϕ 77mm*H100mm | |
| MFR.: NEKO LIGHTING AG | | |

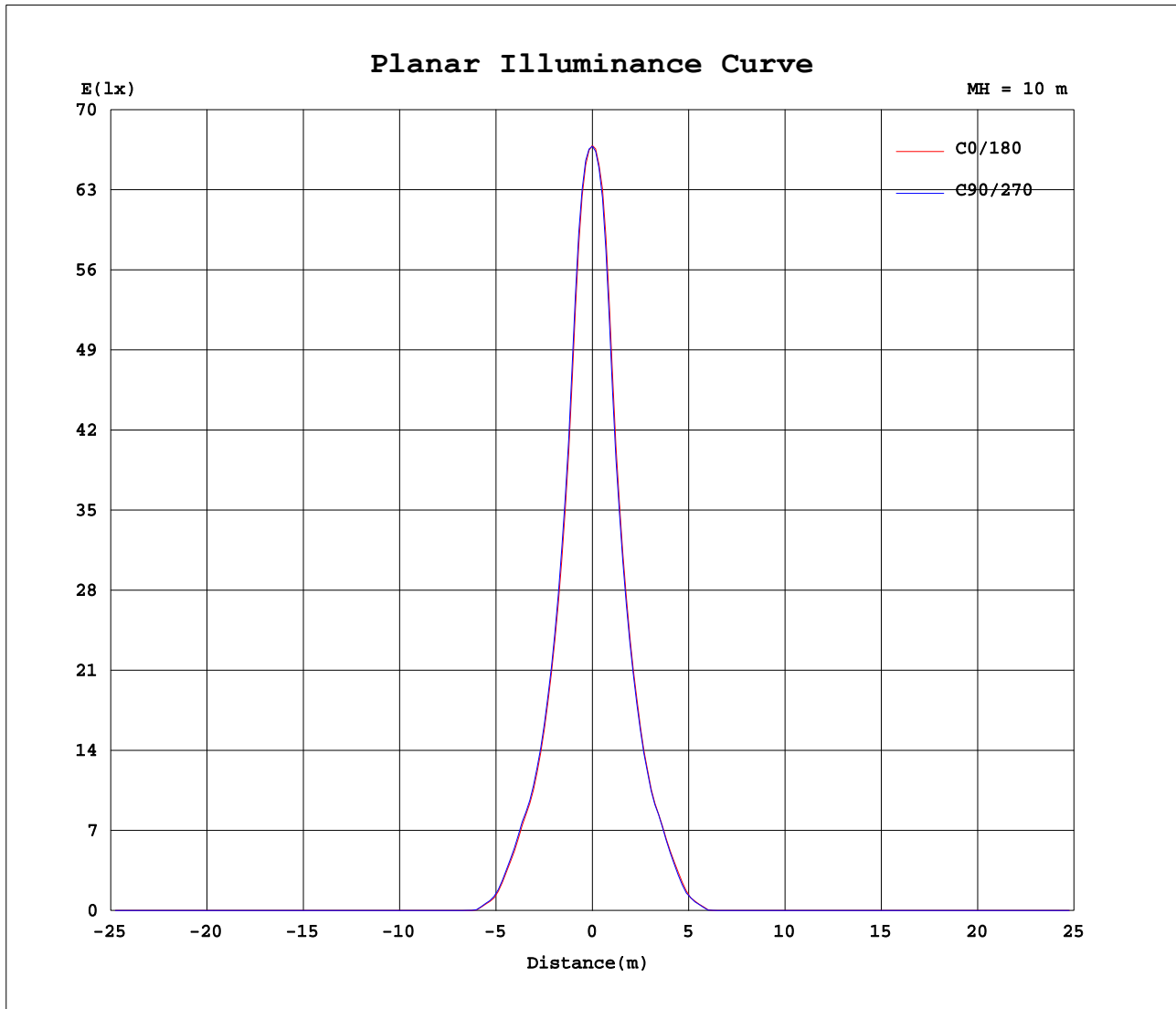
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 100 |
| L_0~180 (75) av | 34 |
| L_0~180 (85) av | 92 |
| L_90~270 (65) av | 57 |
| L_90~270 (75) av | 21 |
| L_90~270 (85) av | 55 |
| L_45 (65) av | 100 |
| L_45 (75) av | 25 |
| L_45 (85) av | 66 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Cao Chengpei
Test Date:2020-12-16

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: 25.2DEG
Operators: Cao Chengpei
Test Date: 2020-12-16

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:

```

```

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:

```