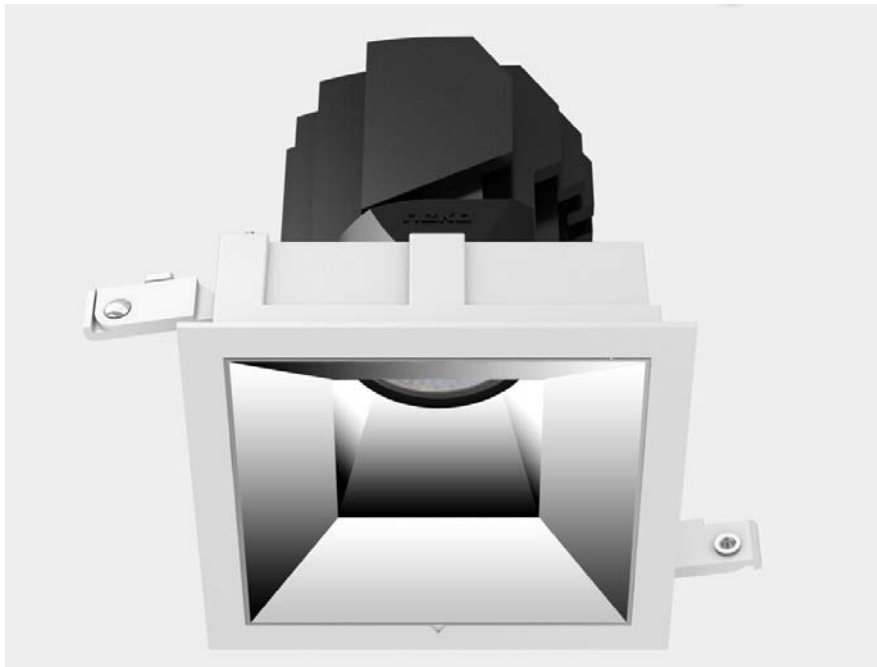


LED Downlight SENSE Series S125S2-18W-940-W



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0%  |                          |
| Luminaire Power:    | 19.82 W |                          |
| SHR Nominal:        | 0.75    | Calculated using the TM5 |
| SHR Maximum:        | 0.80    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-07-17

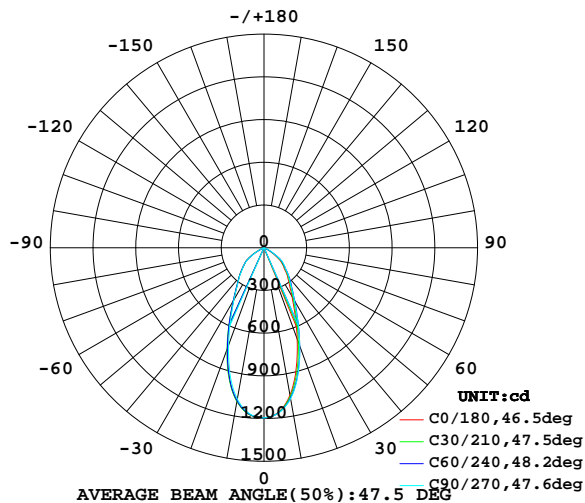
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

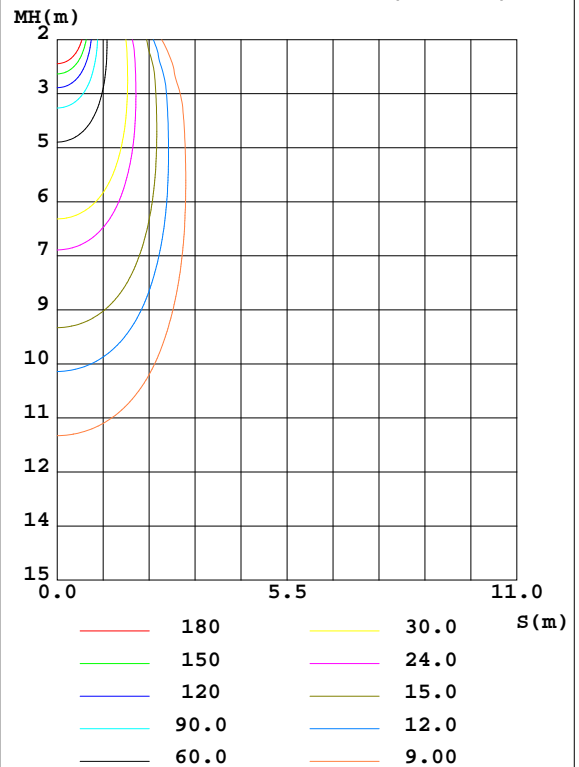
|   |                            |             |
|---|----------------------------|-------------|
| Test:U:220.7V I:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.21x1 lm |                            |             |
| NAME: S125S2-18W-940-W  | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K   | DIM.: L135mm*W135mm*H157mm |             |
| MFR.: NEKO LIGHTING AG  |                            |             |

| DATA OF LAMP     |               | PHOTOMETRIC DATA Eff: 57.53 lm/W |        |                        |          |
|------------------|---------------|----------------------------------|--------|------------------------|----------|
| MODEL            | CITIZEN-4000K | Imax(cd)                         | 1198   | S/MH(C0/180)           | 0.75     |
| NOMINAL POWER(W) | 21            | LOR(%)                           | 100.0  | S/MH(C90/270)          | 0.74     |
| RATED VOLTAGE(V) | 220           | TOTAL FLUX(lm)                   | 1140.2 | $\eta$ UP,DN(C0-180)   | 0.0,50.0 |
| NOMINAL FLUX(lm) | 1140.21       | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 0.0,50.0 |
| LAMPS INSIDE     | 1             | $\eta$ up(%)                     | 0.0    | CIBSE SHR NOM          | 0.75     |
| TEST VOLTAGE(V)  | 220           | $\eta$ down(%)                   | 100.0  | CIBSE SHR MAX          | 0.80     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



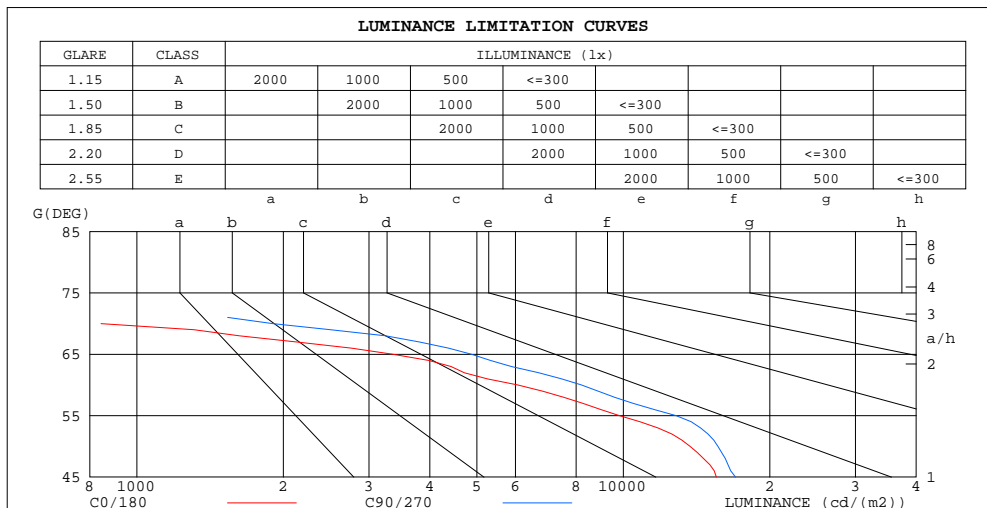
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-07-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:**

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------------|
| 10       | 1052                  | 1070   | 1076   | 1097   | 1094   | 1093   | 1080   | 1067   | 0- 10    | 108.8       | 108.8        | 9.54,9.54        |
| 20       | 682.3                 | 726.6  | 735.1  | 765.5  | 749.0  | 756.2  | 729.0  | 717.5  | 10- 20   | 254.6       | 363.4        | 31.9,31.9        |
| 30       | 393.5                 | 425.0  | 427.8  | 439.7  | 426.5  | 429.7  | 422.9  | 419.6  | 20- 30   | 257.5       | 620.8        | 54.4,54.4        |
| 40       | 255.5                 | 280.0  | 273.4  | 283.6  | 272.1  | 277.2  | 270.7  | 277.3  | 30- 40   | 210.9       | 831.7        | 72.9,72.9        |
| 50       | 160.7                 | 157.4  | 183.3  | 166.2  | 184.3  | 161.1  | 181.3  | 154.8  | 40- 50   | 169.7       | 1001         | 87.8,87.8        |
| 60       | 55.25                 | 72.75  | 74.75  | 85.22  | 80.23  | 84.85  | 71.83  | 68.08  | 50- 60   | 111.5       | 1113         | 97.6,97.6        |
| 70       | 5.260                 | 6.917  | 11.87  | 10.41  | 12.55  | 9.855  | 10.54  | 5.422  | 60- 70   | 25.78       | 1139         | 99.9,99.9        |
| 80       | 0.3494                | 0.1337 | 0.0852 | 0.1002 | 0.2149 | 0.0857 | 0.0415 | 0.0960 | 70- 80   | 1.239       | 1140         | 100,100          |
| 90       | 0.3127                | 0.6450 | 0.1356 | 0.0568 | 0.0459 | 0.0437 | 0.0415 | 0.8352 | 80- 90   | 0.2532      | 1140         | 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                | 470    | 41      |
| 80                | 110    | 27      |
| 75                | 71     | 159     |
| 70                | 844    | 1905    |
| 65                | 3353   | 4869    |
| 60                | 6063   | 8202    |
| 55                | 9822   | 12839   |
| 50                | 13717  | 15645   |
| 45                | 15531  | 17016   |

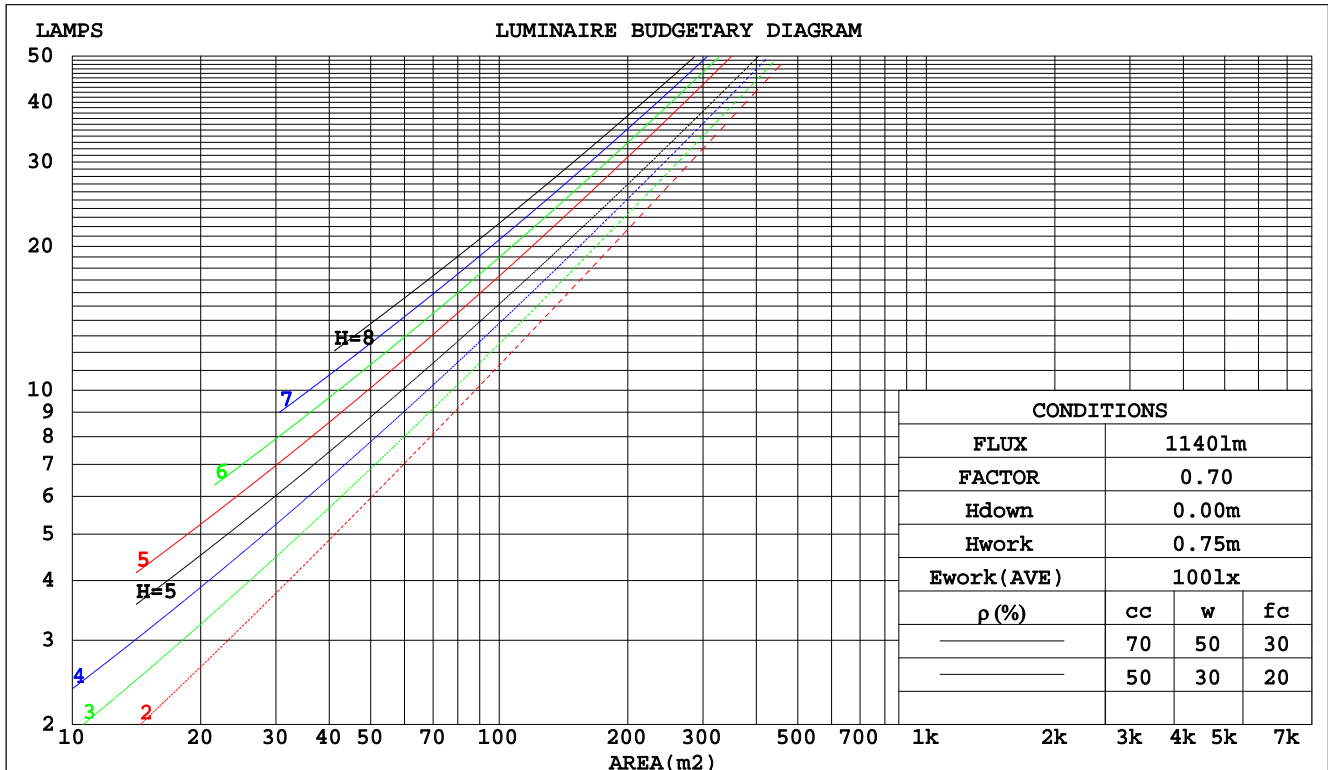
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.21x1 lm |                            |             |
| NAME: S125S2-18W-940-W  | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K   | DIM.: L135mm*W135mm*H157mm |             |
| 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 | .00 |
| 1.0  | 1.09                  | 1.07 | 1.04 | 1.07 | 1.05 | 1.02 | 1.03                            | 1.01 | .99  | .99  | .98  | .96  | .96  | .95  | .93  | .92 |
| 2.0  | 1.00                  | .95  | .91  | .98  | .94  | .90  | .95                             | .91  | .88  | .92  | .89  | .86  | .89  | .87  | .85  | .83 |
| 3.0  | .92                   | .86  | .81  | .90  | .85  | .81  | .88                             | .83  | .79  | .85  | .81  | .78  | .83  | .79  | .77  | .75 |
| 4.0  | .84                   | .78  | .73  | .83  | .77  | .72  | .81                             | .76  | .72  | .79  | .74  | .71  | .77  | .73  | .70  | .68 |
| 5.0  | .78                   | .71  | .66  | .77  | .70  | .66  | .75                             | .69  | .65  | .73  | .68  | .64  | .71  | .67  | .64  | .62 |
| 6.0  | .72                   | .65  | .60  | .71  | .65  | .60  | .70                             | .64  | .59  | .68  | .63  | .59  | .67  | .62  | .59  | .57 |
| 7.0  | .67                   | .60  | .55  | .66  | .60  | .55  | .65                             | .59  | .55  | .64  | .58  | .54  | .62  | .58  | .54  | .53 |
| 8.0  | .62                   | .56  | .51  | .62  | .55  | .51  | .61                             | .55  | .51  | .60  | .54  | .50  | .59  | .54  | .50  | .49 |
| 9.0  | .59                   | .52  | .47  | .58  | .52  | .47  | .57                             | .51  | .47  | .56  | .51  | .47  | .55  | .50  | .47  | .45 |
| 10.0 | .55                   | .49  | .44  | .55  | .48  | .44  | .54                             | .48  | .44  | .53  | .48  | .44  | .52  | .47  | .44  | .42 |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

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:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.21x1 lm |                            |             |
| NAME: S125S2-18W-940-W  | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K   | DIM.: L135mm*W135mm*H157mm |             |
| 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  | .204                  | .116 | .037 | .197 | .113 | .036 | .185                            | .106 | .034 | .173 | .100 | .032 | .162 | .094 | .030 |   |  |
| 2.0  | .199                  | .109 | .034 | .194 | .107 | .033 | .183                            | .102 | .032 | .173 | .097 | .030 | .163 | .092 | .029 |   |  |
| 3.0  | .191                  | .102 | .030 | .186 | .100 | .030 | .177                            | .096 | .029 | .168 | .092 | .028 | .160 | .089 | .027 |   |  |
| 4.0  | .182                  | .094 | .028 | .177 | .093 | .027 | .169                            | .090 | .027 | .162 | .087 | .026 | .155 | .084 | .026 |   |  |
| 5.0  | .173                  | .088 | .025 | .169 | .087 | .025 | .162                            | .084 | .025 | .155 | .082 | .024 | .149 | .079 | .024 |   |  |
| 6.0  | .164                  | .082 | .023 | .160 | .081 | .023 | .154                            | .079 | .023 | .148 | .077 | .023 | .142 | .075 | .022 |   |  |
| 7.0  | .155                  | .077 | .022 | .152 | .076 | .022 | .147                            | .074 | .021 | .141 | .072 | .021 | .136 | .071 | .021 |   |  |
| 8.0  | .147                  | .072 | .020 | .145 | .071 | .020 | .140                            | .070 | .020 | .135 | .068 | .020 | .130 | .067 | .019 |   |  |
| 9.0  | .140                  | .068 | .019 | .138 | .067 | .019 | .133                            | .066 | .019 | .129 | .065 | .018 | .125 | .063 | .018 |   |  |
| 10.0 | .133                  | .064 | .018 | .131 | .063 | .018 | .127                            | .062 | .018 | .123 | .061 | .017 | .120 | .060 | .017 |   |  |

| 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  | .173                  | .157 | .143 | .148 | .135 | .123 | .101                                       | .093 | .085 | .058 | .054 | .049 | .019 | .017 | .016 |   |
| 2.0  | .160                  | .132 | .109 | .137 | .114 | .094 | .094                                       | .079 | .066 | .054 | .046 | .039 | .017 | .015 | .013 |   |
| 3.0  | .149                  | .114 | .085 | .128 | .098 | .074 | .088                                       | .068 | .052 | .051 | .040 | .031 | .016 | .013 | .010 |   |
| 4.0  | .140                  | .099 | .068 | .120 | .086 | .059 | .083                                       | .060 | .042 | .048 | .035 | .025 | .015 | .011 | .008 |   |
| 5.0  | .132                  | .088 | .056 | .114 | .076 | .049 | .078                                       | .053 | .034 | .045 | .031 | .020 | .015 | .010 | .007 |   |
| 6.0  | .125                  | .079 | .046 | .108 | .069 | .040 | .074                                       | .048 | .029 | .043 | .028 | .017 | .014 | .009 | .006 |   |
| 7.0  | .119                  | .072 | .039 | .102 | .062 | .034 | .071                                       | .044 | .024 | .041 | .026 | .014 | .013 | .008 | .005 |   |
| 8.0  | .113                  | .066 | .034 | .097 | .057 | .029 | .067                                       | .040 | .021 | .039 | .024 | .012 | .013 | .008 | .004 |   |
| 9.0  | .108                  | .061 | .029 | .093 | .053 | .025 | .064                                       | .037 | .018 | .038 | .022 | .011 | .012 | .007 | .004 |   |
| 10.0 | .103                  | .057 | .026 | .089 | .049 | .022 | .062                                       | .035 | .016 | .036 | .020 | .010 | .012 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

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:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.2lx1 lm |                  |      |      |      |                            |                |      |             |      |      |
| NAME: S125S2-18W-940-W  |                  |      |      |      | TYPE:Downlight             |                |      | SERIAL No.: |      |      |
| SPEC.:4000K   |                  |      |      |      | DIM.: L135mm*W135mm*H157mm |                |      |             |      |      |
| 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   | 19.1             | 20.3 | 19.4 | 20.4 | 20.6                       | 19.9           | 21.0 | 20.1        | 21.2 | 21.4 |
| 3H  | 19.0             | 20.0 | 19.2 | 20.2 | 20.4                       | 19.8           | 20.8 | 20.0        | 21.0 | 21.2 |
| 4H  | 18.9             | 19.9 | 19.2 | 20.1 | 20.3                       | 19.7           | 20.6 | 19.9        | 20.9 | 21.1 |
| 6H  | 18.8             | 19.7 | 19.1 | 19.9 | 20.2                       | 19.6           | 20.5 | 19.9        | 20.7 | 21.0 |
| 8H  | 18.7             | 19.6 | 19.1 | 19.9 | 20.1                       | 19.5           | 20.4 | 19.8        | 20.7 | 20.9 |
| 12H   | 18.7             | 19.5 | 19.0 | 19.8 | 20.1                       | 19.5           | 20.3 | 19.8        | 20.6 | 20.9 |
| 4H 2H   | 19.2             | 20.1 | 19.4 | 20.4 | 20.6                       | 19.8           | 20.8 | 20.1        | 21.0 | 21.3 |
| 3H  | 19.0             | 19.8 | 19.3 | 20.1 | 20.4                       | 19.7           | 20.5 | 20.0        | 20.8 | 21.1 |
| 4H  | 18.9             | 19.7 | 19.3 | 20.0 | 20.3                       | 19.6           | 20.4 | 20.0        | 20.7 | 21.0 |
| 6H  | 18.8             | 19.5 | 19.2 | 19.8 | 20.2                       | 19.5           | 20.2 | 19.9        | 20.5 | 20.9 |
| 8H  | 18.8             | 19.4 | 19.2 | 19.7 | 20.1                       | 19.5           | 20.1 | 19.9        | 20.4 | 20.8 |
| 12H   | 18.7             | 19.3 | 19.1 | 19.7 | 20.0                       | 19.4           | 20.0 | 19.8        | 20.4 | 20.8 |
| 8H 4H   | 18.8             | 19.4 | 19.2 | 19.7 | 20.1                       | 19.5           | 20.1 | 19.9        | 20.4 | 20.8 |
| 6H  | 18.7             | 19.2 | 19.1 | 19.6 | 20.0                       | 19.4           | 19.9 | 19.8        | 20.3 | 20.7 |
| 8H  | 18.6             | 19.1 | 19.1 | 19.5 | 19.9                       | 19.3           | 19.8 | 19.8        | 20.2 | 20.6 |
| 12H   | 18.6             | 19.0 | 19.0 | 19.4 | 19.9                       | 19.3           | 19.7 | 19.8        | 20.1 | 20.6 |
| 12H 4H  | 18.7             | 19.3 | 19.1 | 19.7 | 20.0                       | 19.4           | 20.0 | 19.8        | 20.4 | 20.8 |
| 6H  | 18.6             | 19.1 | 19.1 | 19.5 | 19.9                       | 19.3           | 19.8 | 19.8        | 20.2 | 20.6 |
| 8H  | 18.6             | 18.9 | 19.0 | 19.4 | 19.9                       | 19.3           | 19.7 | 19.8        | 20.1 | 20.6 |
| Variations with the observer position at spacings:                |                  |      |      |      |                            |                |      |             |      |      |
| S = 1.0H  | + 1.3 / - 2.2    |      |      |      |                            | + 1.0 / - 1.5  |      |             |      |      |
| 1.5H  | + 0.4 / - 1.1    |      |      |      |                            | + 0.4 / - 1.6  |      |             |      |      |
| 2.0H  | + 2.4 / - 9.9    |      |      |      |                            | + 2.2 / - 7.6  |      |             |      |      |

CIE Pub.117 Corrected 1140 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.5)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

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:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.2lx1 lm |                            |             |
| NAME: S125S2-18W-940-W  | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K   | DIM.: L135mm*W135mm*H157mm |             |
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 74  | 65  | 60        | 73  | 65  | 60  | 72  | 65            | 60  | 55     |
| 0.80                             | 83  | 75  | 70        | 83  | 75  | 70  | 81  | 74            | 69  | 64     |
| 1.00                             | 91  | 83  | 78        | 90  | 82  | 78  | 88  | 83            | 77  | 72     |
| 1.25                             | 96  | 89  | 85        | 95  | 89  | 84  | 93  | 87            | 83  | 78     |
| 1.50                             | 100   | 94  | 89        | 99  | 93  | 89  | 96  | 91            | 88  | 82     |
| 2.00                             | 105   | 99  | 95        | 103 | 98  | 94  | 100 | 96            | 93  | 87     |
| 2.50                             | 107   | 102 | 98        | 105 | 101 | 97  | 102 | 98            | 95  | 89     |
| 3.00                             | 109   | 105 | 101       | 107 | 103 | 100 | 104 | 100           | 98  | 91     |
| 4.00                             | 112   | 108 | 105       | 109 | 106 | 104 | 106 | 103           | 101 | 93     |
| 5.00                             | 113   | 110 | 107       | 111 | 108 | 106 | 107 | 104           | 103 | 95     |
| 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:2017-07-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  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:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.21x1 lm |                            |             |
| NAME: S125S2-18W-940-W  | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K   | DIM.: L135mm*W135mm*H157mm |             |
| MFR.: NEKO LIGHTING AG  |                            |             |

Conical surface Flux(90deg):

922.7 lm

%lum = 80.9%

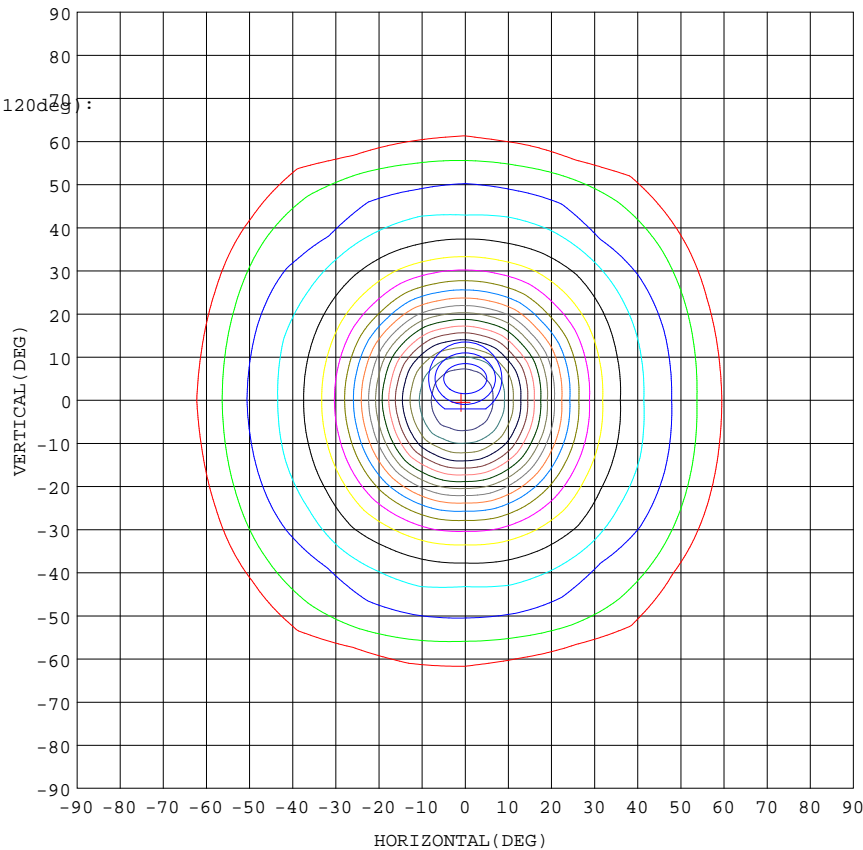
%lamp = 80.9%

Conical surface Flux(120deg):

1112.9 lm

%lum = 97.6%

%lamp = 97.6%



1. AVG=1159,MIN=1112
2. AVG=1145,MIN=1054
3. AVG=1124,MIN=975.6

Imax:1197(H-1.0,V-0.5)  
(At:C=150.0,Gamma=0.0)

UNIT: cd

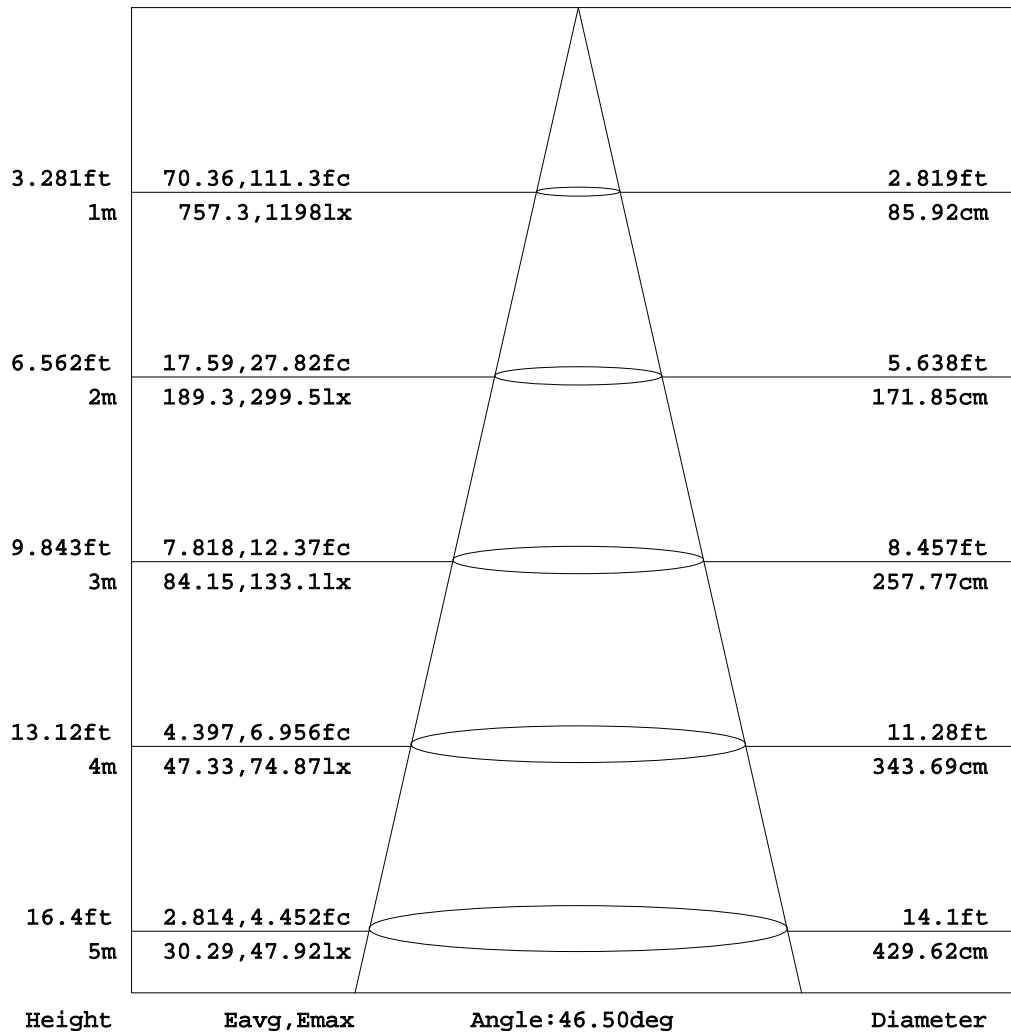
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

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:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.2lx1 lm |                            |             |
| NAME: S125S2-18W-940-W  | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K   | DIM.: L135mm*W135mm*H157mm |             |
| MFR.: NEKO LIGHTING AG  |                            |             |

Flux out:471.6 lm



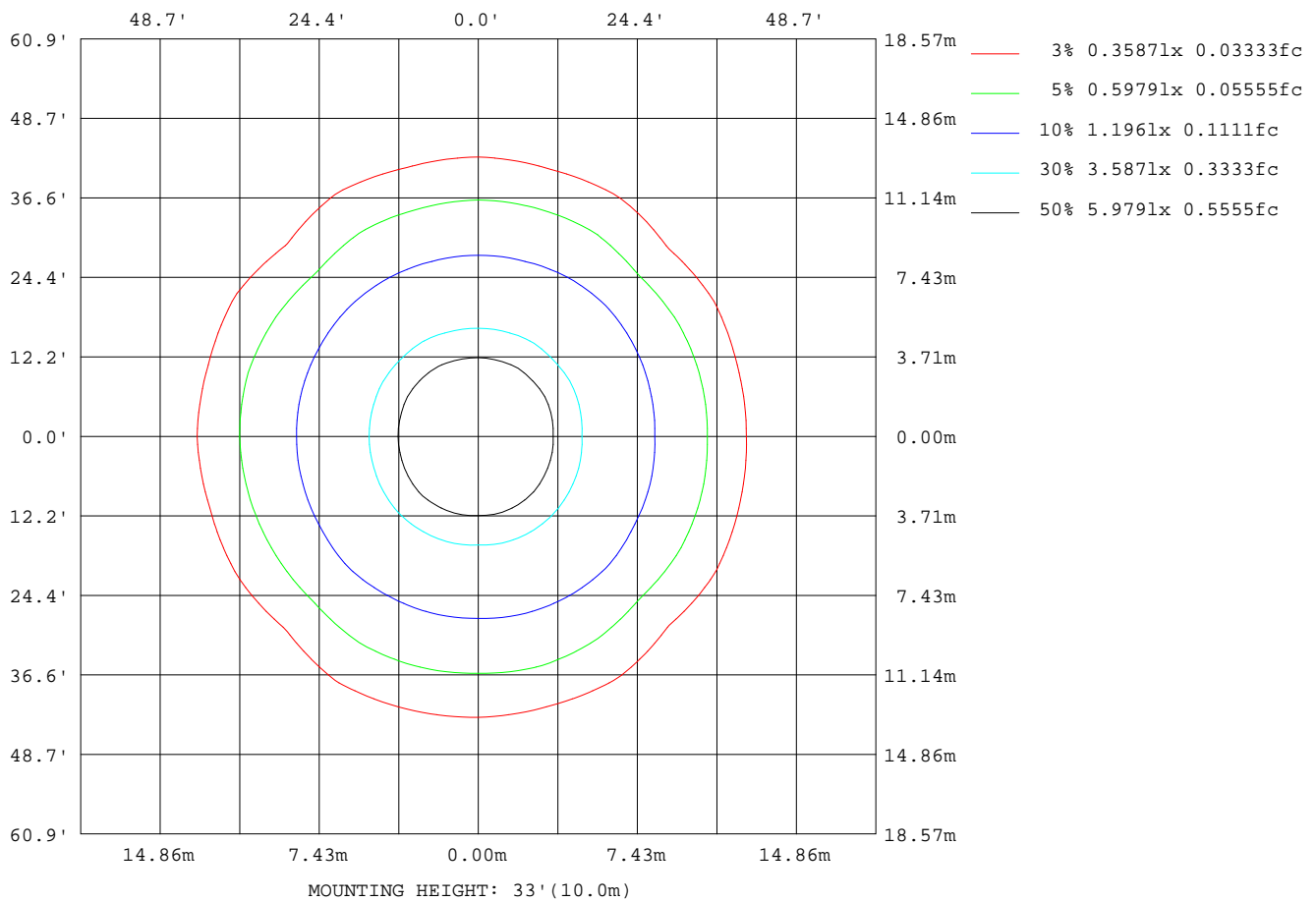
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

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

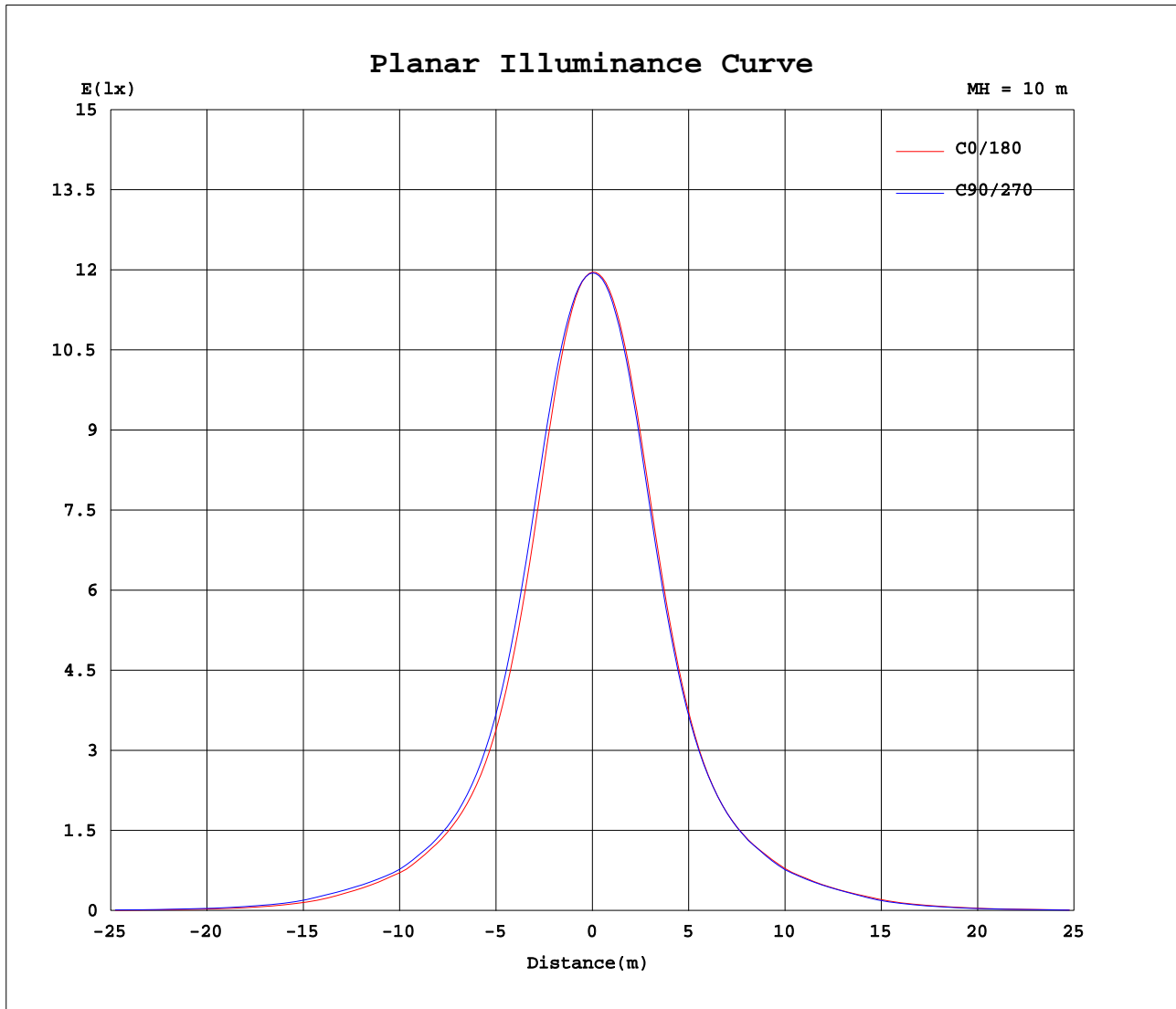
|  |                            |             |
|--|----------------------------|-------------|
| Test:U:220.7V I:0.0951A P:19.82W PF:0.9445 Lamp Flux:1140.2lx 1m |                            |             |
| NAME: S125S2-18W-940-W   | TYPE:Downlight             | SERIAL No.: |
| SPEC.:4000K  | DIM.: L135mm*W135mm*H157mm |             |
| MFR.: NEKO LIGHTING AG   |                            |             |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-07-17

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: 2017-07-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

```

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  | 1196   | 1196   | 1195   | 1195   | 1195   | 1195   | 1195   | 1195   | 1195   | 1197   |
| 3.0  | 1183   | 1183   | 1183   | 1184   | 1183   | 1184   | 1184   | 1185   | 1185   | 1191   |
| 6.0  | 1144   | 1147   | 1147   | 1152   | 1151   | 1153   | 1153   | 1156   | 1157   | 1167   |
| 9.0  | 1079   | 1084   | 1086   | 1094   | 1096   | 1100   | 1099   | 1105   | 1107   | 1119   |
| 12.0 | 988.5  | 996.0  | 1001   | 1014   | 1017   | 1023   | 1023   | 1031   | 1034   | 1046   |
| 15.0 | 876.6  | 886.8  | 894.9  | 913.2  | 917.6  | 925.5  | 924.1  | 935.3  | 938.3  | 951.9  |
| 18.0 | 758.4  | 769.6  | 781.1  | 802.2  | 808.0  | 814.8  | 811.3  | 823.9  | 829.1  | 842.4  |
| 21.0 | 646.1  | 657.4  | 669.9  | 689.8  | 697.7  | 703.1  | 697.8  | 710.5  | 716.7  | 727.1  |
| 24.0 | 546.1  | 557.0  | 569.0  | 585.3  | 594.6  | 599.5  | 593.0  | 605.1  | 610.0  | 616.2  |
| 27.0 | 461.4  | 471.2  | 482.1  | 496.0  | 505.0  | 508.6  | 502.3  | 512.3  | 515.6  | 518.4  |
| 30.0 | 393.5  | 401.7  | 411.3  | 425.0  | 431.8  | 433.4  | 427.8  | 435.7  | 436.9  | 439.7  |
| 33.0 | 340.4  | 347.3  | 355.4  | 369.7  | 373.6  | 373.4  | 368.4  | 373.8  | 374.4  | 378.2  |
| 36.0 | 298.8  | 305.2  | 312.0  | 327.3  | 328.2  | 327.0  | 320.8  | 325.6  | 326.5  | 331.6  |
| 39.0 | 265.1  | 270.8  | 276.4  | 291.9  | 291.7  | 289.7  | 284.9  | 287.3  | 289.2  | 294.9  |
| 42.0 | 232.6  | 242.3  | 243.3  | 254.3  | 256.4  | 257.1  | 253.7  | 257.3  | 257.2  | 260.7  |
| 45.0 | 200.1  | 208.4  | 212.0  | 212.9  | 222.5  | 228.1  | 219.3  | 231.8  | 227.3  | 224.1  |
| 48.0 | 178.3  | 183.7  | 183.9  | 174.6  | 192.8  | 199.8  | 199.7  | 199.7  | 200.6  | 186.9  |
| 51.0 | 151.3  | 154.9  | 160.8  | 150.4  | 170.5  | 173.1  | 176.0  | 177.4  | 176.4  | 158.1  |
| 54.0 | 115.9  | 123.0  | 129.3  | 133.1  | 145.1  | 143.7  | 147.7  | 151.9  | 154.7  | 139.4  |
| 57.0 | 81.97  | 83.58  | 91.91  | 108.9  | 108.0  | 102.3  | 103.9  | 110.8  | 117.2  | 118.0  |
| 60.0 | 55.25  | 54.81  | 52.45  | 72.75  | 63.65  | 66.92  | 74.75  | 74.13  | 72.46  | 85.22  |
| 63.0 | 36.62  | 20.75  | 21.78  | 46.19  | 30.00  | 27.56  | 48.71  | 45.54  | 36.91  | 54.95  |
| 66.0 | 20.46  | 5.728  | 5.178  | 23.15  | 8.850  | 6.693  | 32.42  | 15.78  | 11.16  | 30.45  |
| 69.0 | 8.560  | 2.005  | 2.260  | 9.530  | 2.694  | 2.368  | 16.34  | 2.583  | 3.310  | 15.14  |
| 72.0 | 1.929  | 0.9251 | 1.121  | 2.961  | 1.443  | 1.231  | 4.480  | 1.414  | 1.872  | 5.351  |
| 75.0 | 0.3357 | 0.3581 | 0.4830 | 0.6803 | 0.6521 | 0.5367 | 0.7522 | 0.6392 | 0.9107 | 1.394  |
| 78.0 | 0.2707 | 0.2386 | 0.1235 | 0.1439 | 0.1914 | 0.1306 | 0.1371 | 0.1850 | 0.3188 | 0.3507 |
| 81.0 | 0.3974 | 0.3502 | 0.2641 | 0.1665 | 0.0656 | 0.0590 | 0.0723 | 0.0590 | 0.0637 | 0.0568 |
| 84.0 | 0.6023 | 0.5149 | 0.3930 | 0.2844 | 0.1134 | 0.0657 | 0.0678 | 0.0590 | 0.0590 | 0.0547 |
| 87.0 | 1.349  | 1.110  | 0.7175 | 0.3678 | 0.1924 | 0.0984 | 0.0656 | 0.0612 | 0.0568 | 0.0568 |
| 90.0 | 0.3127 | 1.198  | 1.607  | 0.6450 | 0.2033 | 0.0722 | 0.1356 | 0.0809 | 0.0568 | 0.0568 |

| G/C  | 150.0  | 165.0  | 180.0  | 195.0  | 210.0  | 225.0  | 240.0  | 255.0  | 270.0  | 285.0  |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0  | 1198   | 1197   | 1196   | 1196   | 1195   | 1195   | 1195   | 1195   | 1195   | 1195   |
| 3.0  | 1192   | 1192   | 1190   | 1190   | 1190   | 1189   | 1189   | 1187   | 1187   | 1186   |
| 6.0  | 1167   | 1167   | 1165   | 1164   | 1166   | 1163   | 1162   | 1158   | 1157   | 1155   |
| 9.0  | 1116   | 1116   | 1116   | 1115   | 1118   | 1114   | 1113   | 1105   | 1103   | 1099   |
| 12.0 | 1042   | 1040   | 1041   | 1040   | 1046   | 1041   | 1039   | 1027   | 1024   | 1018   |
| 15.0 | 943.3  | 939.1  | 942.8  | 941.1  | 950.1  | 944.2  | 941.9  | 925.8  | 921.5  | 914.9  |
| 18.0 | 830.9  | 823.3  | 827.9  | 827.2  | 838.8  | 834.0  | 830.5  | 811.6  | 806.4  | 801.7  |
| 21.0 | 715.4  | 706.6  | 710.5  | 710.6  | 722.5  | 717.6  | 716.4  | 697.5  | 692.0  | 689.5  |
| 24.0 | 607.4  | 599.2  | 602.1  | 602.6  | 612.3  | 606.3  | 609.2  | 592.9  | 588.0  | 587.0  |
| 27.0 | 512.2  | 505.0  | 506.0  | 507.8  | 514.5  | 508.5  | 513.7  | 501.4  | 497.3  | 497.7  |
| 30.0 | 432.9  | 426.6  | 426.5  | 428.0  | 433.1  | 429.7  | 434.3  | 425.7  | 422.9  | 423.4  |
| 33.0 | 370.2  | 365.4  | 364.1  | 365.8  | 369.5  | 368.9  | 371.2  | 365.6  | 363.7  | 364.0  |
| 36.0 | 322.5  | 318.8  | 317.2  | 319.0  | 321.7  | 322.6  | 322.8  | 318.6  | 316.4  | 318.2  |
| 39.0 | 285.9  | 283.4  | 282.3  | 284.3  | 285.3  | 287.7  | 285.3  | 281.4  | 280.1  | 281.7  |
| 42.0 | 252.7  | 253.8  | 254.9  | 256.6  | 253.2  | 254.0  | 253.5  | 252.4  | 250.2  | 251.6  |
| 45.0 | 220.4  | 226.0  | 222.9  | 230.0  | 222.1  | 215.4  | 222.7  | 223.4  | 216.7  | 222.4  |
| 48.0 | 192.1  | 196.6  | 201.7  | 202.0  | 192.7  | 178.5  | 194.6  | 193.5  | 196.6  | 194.2  |
| 51.0 | 170.2  | 171.0  | 176.4  | 174.0  | 171.7  | 154.5  | 173.3  | 169.1  | 173.5  | 167.0  |
| 54.0 | 144.1  | 143.0  | 149.0  | 145.6  | 150.3  | 139.1  | 149.8  | 143.7  | 143.8  | 138.7  |
| 57.0 | 110.6  | 107.6  | 110.8  | 110.4  | 116.4  | 119.8  | 111.6  | 101.0  | 101.1  | 95.36  |
| 60.0 | 72.29  | 72.36  | 80.23  | 74.45  | 77.55  | 84.85  | 66.39  | 70.70  | 71.83  | 64.90  |
| 63.0 | 37.69  | 33.79  | 53.00  | 37.49  | 41.01  | 56.20  | 32.92  | 28.10  | 45.68  | 21.31  |
| 66.0 | 13.67  | 11.80  | 34.11  | 14.87  | 13.98  | 30.72  | 9.814  | 6.942  | 28.75  | 5.225  |
| 69.0 | 4.433  | 3.775  | 17.22  | 3.877  | 4.218  | 13.93  | 2.224  | 1.588  | 13.21  | 1.395  |
| 72.0 | 2.165  | 1.758  | 7.012  | 1.741  | 1.967  | 4.490  | 1.259  | 0.8307 | 2.526  | 0.6949 |
| 75.0 | 0.9813 | 0.7572 | 1.374  | 0.7086 | 0.8503 | 1.064  | 0.6608 | 0.4187 | 0.4832 | 0.2853 |
| 78.0 | 0.3408 | 0.2198 | 0.2540 | 0.2110 | 0.2676 | 0.2420 | 0.1979 | 0.0881 | 0.1336 | 0.0595 |
| 81.0 | 0.0638 | 0.0568 | 0.0805 | 0.0591 | 0.0394 | 0.0592 | 0.0415 | 0.0503 | 0.0415 | 0.0503 |
| 84.0 | 0.0591 | 0.0568 | 0.0459 | 0.0503 | 0.0394 | 0.0459 | 0.0415 | 0.0459 | 0.0415 | 0.0438 |
| 87.0 | 0.0568 | 0.0568 | 0.0459 | 0.0437 | 0.0394 | 0.0437 | 0.0416 | 0.0416 | 0.0415 | 0.0437 |
| 90.0 | 0.0568 | 0.0568 | 0.0459 | 0.0415 | 0.0415 | 0.0437 | 0.0437 | 0.0415 | 0.0415 | 0.0437 |

| G/C  | 300.0 | 315.0 | 330.0 | 345.0 |
|------|-------|-------|-------|-------|
| 0.0  | 1195  | 1197  | 1198  | 1197  |
| 3.0  | 1186  | 1185  | 1186  | 1185  |
| 6.0  | 1156  | 1151  | 1152  | 1148  |
| 9.0  | 1101  | 1092  | 1093  | 1086  |
| 12.0 | 1020  | 1009  | 1009  | 998.7 |
| 15.0 | 919.3 | 905.6 | 904.5 | 889.4 |
| 18.0 | 807.6 | 793.7 | 790.5 | 772.6 |
| 21.0 | 696.0 | 680.7 | 678.4 | 660.4 |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-07-17

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 | 593.0  | 577.0  | 576.1  | 560.0  |
| 27.0 | 502.8  | 489.1  | 487.8  | 473.2  |
| 30.0 | 429.1  | 419.6  | 416.3  | 402.9  |
| 33.0 | 370.3  | 365.8  | 360.2  | 348.1  |
| 36.0 | 324.4  | 324.2  | 316.8  | 305.5  |
| 39.0 | 287.3  | 289.4  | 279.6  | 270.7  |
| 42.0 | 254.3  | 250.4  | 244.0  | 239.2  |
| 45.0 | 221.3  | 208.1  | 209.8  | 207.9  |
| 48.0 | 191.8  | 170.7  | 179.5  | 181.6  |
| 51.0 | 169.4  | 148.4  | 156.5  | 151.7  |
| 54.0 | 138.5  | 131.2  | 130.8  | 123.8  |
| 57.0 | 97.70  | 106.4  | 96.62  | 83.76  |
| 60.0 | 51.47  | 68.08  | 56.85  | 48.83  |
| 63.0 | 22.38  | 43.52  | 26.54  | 18.19  |
| 66.0 | 5.137  | 22.83  | 6.698  | 4.117  |
| 69.0 | 1.580  | 8.018  | 2.192  | 1.736  |
| 72.0 | 0.8462 | 2.131  | 1.040  | 0.7852 |
| 75.0 | 0.3792 | 0.4968 | 0.4382 | 0.3139 |
| 78.0 | 0.0783 | 0.0990 | 0.1001 | 0.2211 |
| 81.0 | 0.0415 | 0.1222 | 0.2432 | 0.3342 |
| 84.0 | 0.0416 | 0.2270 | 0.4039 | 0.6065 |
| 87.0 | 0.1600 | 0.4690 | 1.110  | 1.326  |
| 90.0 | 0.2667 | 0.8352 | 1.839  | 0.6144 |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-07-17

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: