

LED Tracklight PURE S-21W-940-15



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0%  |                          |
| Luminaire Power:    | 20.45 W |                          |
| SHR Nominal:        | 0.00    | Calculated using the TM5 |
| SHR Maximum:        | 1.00    | fine grid method.        |

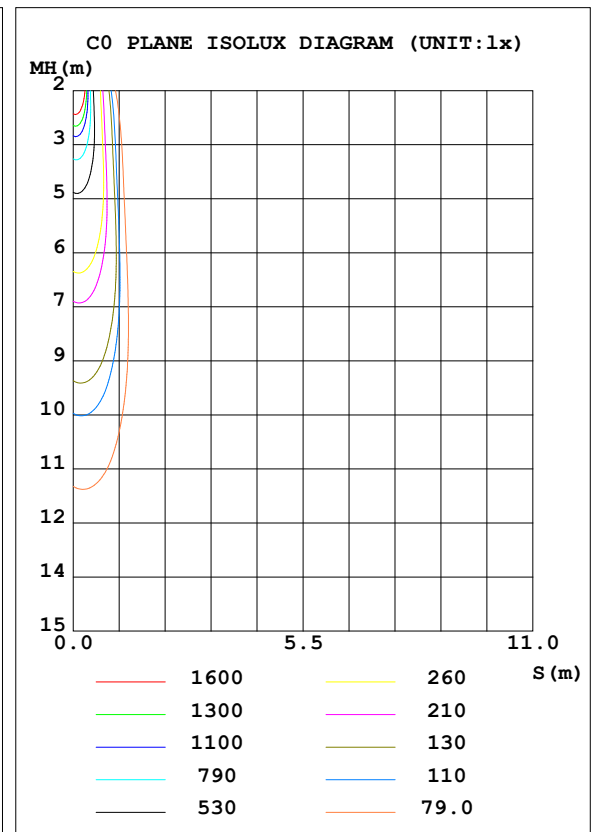
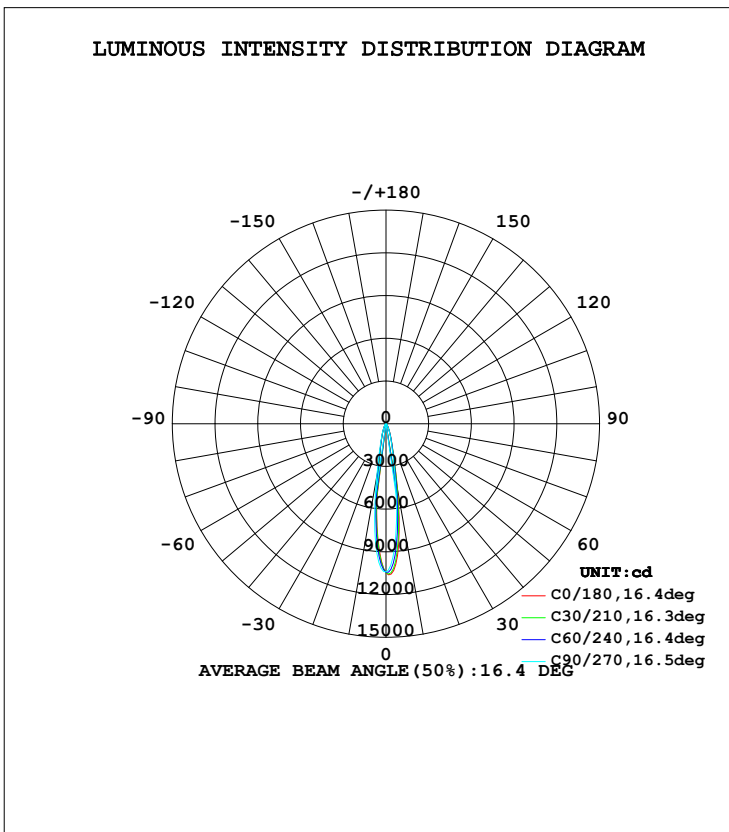
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-05-19

$\gamma$  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:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

|   |                    |             |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
| NAME: PURE S-21W-940-15   | TYPE:Tracklight    | SERIAL No.: |
| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

| DATA OF LAMP      |               | PHOTOMETRIC DATA Eff: 78.31 lm/W |        |                     |           |
|-------------------|---------------|----------------------------------|--------|---------------------|-----------|
| MODEL             | CITIZEN-4000K | I <sub>max</sub> (cd)            | 10616  | S/MH (C0/180)       | 0.25      |
| NOMINAL POWER (W) | 20            | LOR (%)                          | 100.0  | S/MH (C90/270)      | 0.29      |
| RATED VOLTAGE (V) | 220           | TOTAL FLUX (lm)                  | 1601.3 | η UP, DN (C0-180)   | 0.0, 50.6 |
| NOMINAL FLUX (lm) | 1601.33       | CIE CLASS                        | DIRECT | η UP, DN (C180-360) | 0.0, 49.4 |
| LAMPS INSIDE      | 1             | η up (%)                         | 0.0    | CIBSE SHR NOM       | 0.00      |
| TEST VOLTAGE (V)  | 220           | η down (%)                       | 100.0  | CIBSE SHR MAX       | 1.00      |



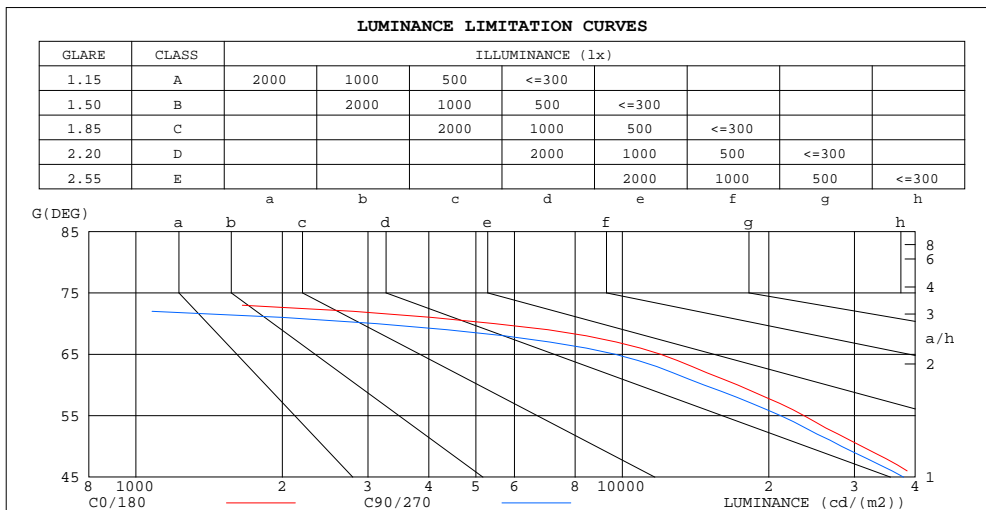
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-05-19

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

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

| $\gamma$ | C0                       | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------------|
| 10       | 465.2                    | 440.9  | 366.0  | 311.5  | 299.9  | 302.9  | 377.7  | 452.9  | 0- 10    | 632.4       | 632.4        | 39.5,39.5       |
| 20       | 95.46                    | 95.42  | 87.01  | 78.73  | 75.60  | 75.21  | 83.41  | 91.71  | 10- 20   | 474.4       | 1107         | 69.1,69.1       |
| 30       | 31.95                    | 32.41  | 30.24  | 27.63  | 26.43  | 26.32  | 28.48  | 30.69  | 20- 30   | 231.5       | 1338         | 83.6,83.6       |
| 40       | 14.75                    | 14.76  | 14.13  | 13.36  | 12.92  | 12.84  | 13.58  | 14.31  | 30- 40   | 124.3       | 1463         | 91.3,91.3       |
| 50       | 7.685                    | 7.509  | 6.983  | 6.555  | 6.395  | 6.514  | 7.044  | 7.545  | 40- 50   | 78.48       | 1541         | 96.2,96.2       |
| 60       | 3.319                    | 3.188  | 2.828  | 2.598  | 2.536  | 2.632  | 2.974  | 3.269  | 50- 60   | 42.81       | 1584         | 98.9,98.9       |
| 70       | 0.7189                   | 0.6129 | 0.4108 | 0.2913 | 0.2766 | 0.3267 | 0.5107 | 0.6962 | 60- 70   | 16.18       | 1600         | 99.9,99.9       |
| 80       | 0.0247                   | 0.0212 | 0.0208 | 0.0175 | 0.0166 | 0.0197 | 0.0203 | 0.0241 | 70- 80   | 1.117       | 1601         | 100,100         |
| 90       | 0.0074                   | 0.0068 | 0.0070 | 0.0070 | 0.0068 | 0.0063 | 0.0061 | 0.0072 | 80- 90   | 0.1274      | 1601         | 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:×10cd |        |        |        |        |        |        |        | UNIT:lm  |             |              |                 |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 405    | 327     |
| 80                | 370    | 311     |
| 75                | 563    | 406     |
| 70                | 5464   | 3123    |
| 65                | 11981  | 9659    |
| 60                | 17259  | 14704   |
| 55                | 23628  | 21165   |
| 50                | 31084  | 28242   |
| 45                | 40164  | 37864   |

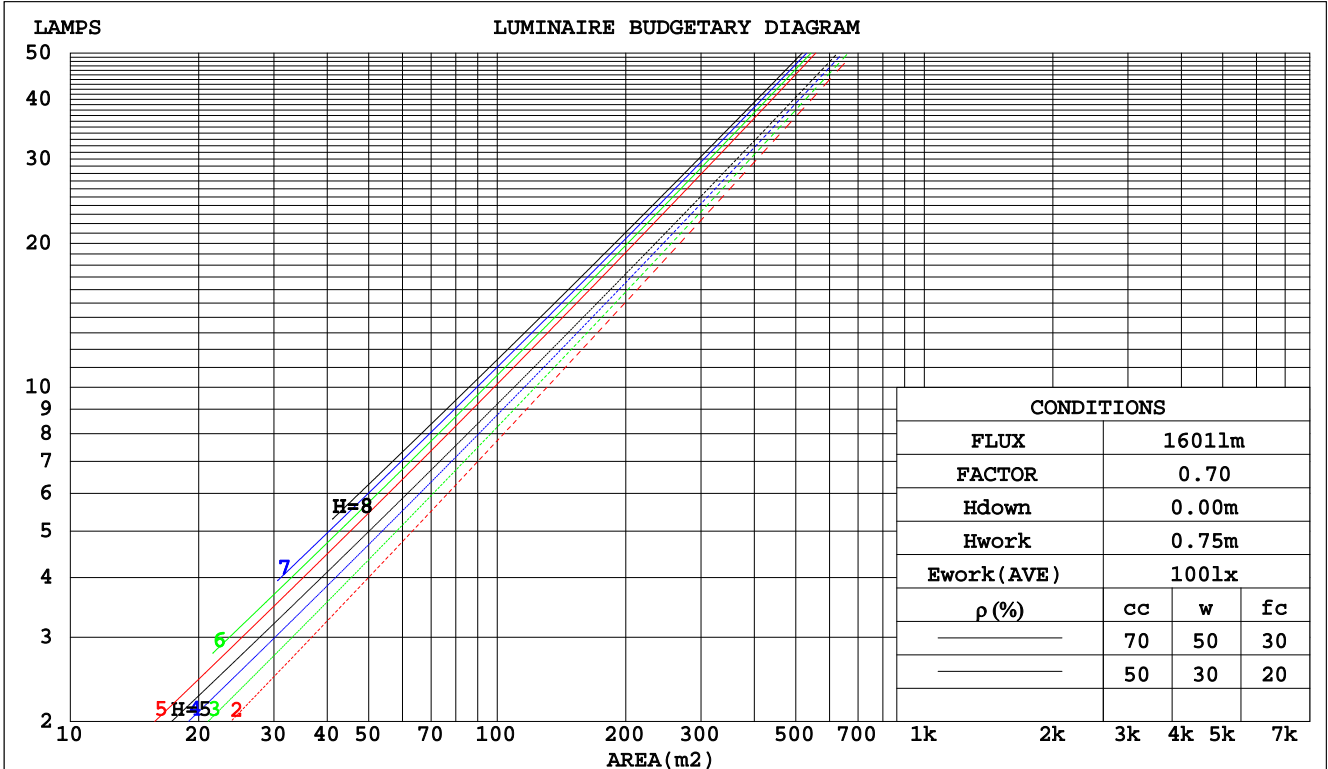
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-19

$\gamma$  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:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
| NAME: PURE S-21W-940-15   | TYPE:Tracklight    | SERIAL No.: |
| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| 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  | 1.12                            | 1.10 | 1.08 | 1.10 | 1.08 | 1.07 | 1.06 | 1.05 | 1.03 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  |
| 2.0  | 1.06                            | 1.03 | 1.00 | 1.05 | 1.02 | .99  | 1.01 | .99  | .97  | .98  | .97  | .95  | .96  | .94  | .93  | .91  |
| 3.0  | 1.01                            | .97  | .94  | .90  | .96  | .93  | .97  | .94  | .92  | .95  | .92  | .90  | .93  | .91  | .89  | .87  |
| 4.0  | .96                             | .92  | .89  | .95  | .91  | .88  | .93  | .90  | .87  | .91  | .88  | .86  | .90  | .87  | .85  | .84  |
| 5.0  | .92                             | .88  | .84  | .91  | .87  | .84  | .90  | .86  | .83  | .88  | .85  | .83  | .87  | .84  | .82  | .81  |
| 6.0  | .89                             | .84  | .81  | .88  | .84  | .81  | .87  | .83  | .80  | .85  | .82  | .79  | .84  | .81  | .79  | .78  |
| 7.0  | .86                             | .81  | .78  | .85  | .81  | .78  | .84  | .80  | .77  | .83  | .79  | .77  | .82  | .79  | .76  | .75  |
| 8.0  | .83                             | .78  | .75  | .82  | .78  | .75  | .81  | .77  | .75  | .80  | .77  | .74  | .79  | .76  | .74  | .73  |
| 9.0  | .80                             | .76  | .73  | .80  | .75  | .73  | .79  | .75  | .72  | .78  | .75  | .72  | .77  | .74  | .72  | .71  |
| 10.0 | .78                             | .73  | .71  | .77  | .73  | .70  | .77  | .73  | .70  | .76  | .73  | .70  | .75  | .72  | .70  | .69  |



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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:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
| NAME: PURE S-21W-940-15   | TYPE:Tracklight    | SERIAL No.: |
| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| 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  | .149                  | .085 | .027 | .142 | .081 | .026 | .130                            | .075 | .024 | .118 | .068 | .022 | .108 | .063 | .020 |   |
| 2.0  | .140                  | .077 | .024 | .135 | .074 | .023 | .124                            | .069 | .021 | .115 | .064 | .020 | .106 | .060 | .019 |   |
| 3.0  | .132                  | .070 | .021 | .127 | .068 | .020 | .118                            | .064 | .019 | .110 | .060 | .019 | .103 | .057 | .018 |   |
| 4.0  | .124                  | .064 | .019 | .120 | .063 | .019 | .112                            | .060 | .018 | .106 | .057 | .017 | .099 | .054 | .016 |   |
| 5.0  | .116                  | .059 | .017 | .113 | .058 | .017 | .107                            | .056 | .016 | .101 | .053 | .016 | .095 | .051 | .015 |   |
| 6.0  | .110                  | .055 | .016 | .107 | .054 | .016 | .101                            | .052 | .015 | .096 | .050 | .015 | .092 | .048 | .014 |   |
| 7.0  | .104                  | .051 | .015 | .101 | .051 | .014 | .097                            | .049 | .014 | .092 | .047 | .014 | .088 | .046 | .013 |   |
| 8.0  | .099                  | .048 | .014 | .096 | .047 | .013 | .092                            | .046 | .013 | .088 | .045 | .013 | .085 | .043 | .013 |   |
| 9.0  | .094                  | .045 | .013 | .092 | .045 | .013 | .088                            | .044 | .012 | .085 | .042 | .012 | .081 | .041 | .012 |   |
| 10.0 | .089                  | .043 | .012 | .088 | .042 | .012 | .084                            | .041 | .012 | .081 | .040 | .011 | .078 | .039 | .011 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .169                  | .158 | .147 | .145 | .135 | .127 | .099                                       | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .016 |   |
| 2.0  | .152                  | .133 | .116 | .130 | .114 | .101 | .089                                       | .079 | .070 | .051 | .046 | .041 | .017 | .015 | .013 |   |
| 3.0  | .138                  | .113 | .094 | .118 | .098 | .081 | .081                                       | .068 | .057 | .047 | .040 | .034 | .015 | .013 | .011 |   |
| 4.0  | .126                  | .098 | .077 | .108 | .085 | .067 | .074                                       | .059 | .047 | .043 | .035 | .028 | .014 | .011 | .009 |   |
| 5.0  | .116                  | .086 | .064 | .099 | .074 | .056 | .068                                       | .052 | .039 | .040 | .031 | .023 | .013 | .010 | .008 |   |
| 6.0  | .107                  | .076 | .054 | .092 | .066 | .047 | .063                                       | .046 | .033 | .037 | .027 | .020 | .012 | .009 | .007 |   |
| 7.0  | .100                  | .068 | .046 | .086 | .059 | .040 | .059                                       | .041 | .029 | .034 | .024 | .017 | .011 | .008 | .006 |   |
| 8.0  | .093                  | .061 | .040 | .080 | .053 | .035 | .055                                       | .037 | .025 | .032 | .022 | .015 | .010 | .007 | .005 |   |
| 9.0  | .087                  | .056 | .035 | .075 | .048 | .030 | .052                                       | .034 | .021 | .030 | .020 | .013 | .010 | .007 | .004 |   |
| 10.0 | .082                  | .051 | .030 | .071 | .044 | .027 | .049                                       | .031 | .019 | .029 | .018 | .011 | .009 | .006 | .004 |   |

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 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
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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:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
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| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

|  |                  |      |      |      |      |                |      |      |      |      |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| ceiling/cavity                                     | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| walls  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| working plane                                      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions                                    | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| x = 2H y = 2H                                      | 19.1             | 19.9 | 19.3 | 20.0 | 20.2 | 18.8           | 19.5 | 19.0 | 19.7 | 19.8 |
| 3H   | 19.2             | 19.9 | 19.5 | 20.1 | 20.3 | 18.8           | 19.5 | 19.0 | 19.7 | 19.8 |
| 4H   | 19.1             | 19.8 | 19.4 | 20.0 | 20.2 | 18.7           | 19.4 | 19.0 | 19.6 | 19.8 |
| 6H   | 19.0             | 19.7 | 19.3 | 19.9 | 20.1 | 18.6           | 19.2 | 18.9 | 19.5 | 19.7 |
| 8H   | 19.0             | 19.6 | 19.3 | 19.8 | 20.1 | 18.6           | 19.2 | 18.9 | 19.4 | 19.7 |
| 12H  | 19.0             | 19.5 | 19.3 | 19.8 | 20.0 | 18.5           | 19.1 | 18.8 | 19.4 | 19.6 |
| 4H 2H  | 19.2             | 19.8 | 19.4 | 20.0 | 20.2 | 18.9           | 19.5 | 19.1 | 19.7 | 19.9 |
| 3H   | 19.2             | 19.8 | 19.6 | 20.1 | 20.3 | 18.9           | 19.4 | 19.2 | 19.7 | 20.0 |
| 4H   | 19.2             | 19.7 | 19.5 | 20.0 | 20.3 | 18.8           | 19.3 | 19.1 | 19.6 | 19.9 |
| 6H   | 19.1             | 19.5 | 19.4 | 19.8 | 20.2 | 18.7           | 19.1 | 19.0 | 19.4 | 19.8 |
| 8H   | 19.0             | 19.4 | 19.4 | 19.8 | 20.1 | 18.6           | 19.0 | 19.0 | 19.4 | 19.7 |
| 12H  | 18.9             | 19.3 | 19.4 | 19.7 | 20.1 | 18.6           | 18.9 | 19.0 | 19.3 | 19.7 |
| 8H 4H  | 19.0             | 19.4 | 19.4 | 19.8 | 20.1 | 18.6           | 19.0 | 19.0 | 19.4 | 19.8 |
| 6H   | 18.9             | 19.2 | 19.3 | 19.6 | 20.1 | 18.5           | 18.9 | 18.9 | 19.3 | 19.7 |
| 8H   | 18.8             | 19.2 | 19.3 | 19.6 | 20.0 | 18.4           | 18.8 | 18.9 | 19.2 | 19.6 |
| 12H  | 18.8             | 19.0 | 19.2 | 19.5 | 20.0 | 18.4           | 18.7 | 18.9 | 19.1 | 19.6 |
| 12H 4H   | 19.0             | 19.3 | 19.4 | 19.7 | 20.1 | 18.6           | 19.0 | 19.0 | 19.3 | 19.7 |
| 6H   | 18.8             | 19.2 | 19.3 | 19.6 | 20.0 | 18.4           | 18.8 | 18.9 | 19.2 | 19.6 |
| 8H   | 18.8             | 19.0 | 19.2 | 19.5 | 20.0 | 18.4           | 18.7 | 18.9 | 19.1 | 19.6 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H   | + 1.3 / - 2.1    |      |      |      |      | + 1.5 / - 2.5  |      |      |      |      |
| 1.5H   | + 1.3 / - 1.2    |      |      |      |      | + 1.4 / - 1.3  |      |      |      |      |
| 2.0H   | + 2.6 / - 2.9    |      |      |      |      | + 2.7 / - 2.9  |      |      |      |      |

CIE Pub.117 Corrected 1601 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.6)

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 C Interval: 15.0DEG  
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 Temperature:25.3DEG  
 Operators:Meng Yongjian  
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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**

|   |                    |             |
|---|--------------------|-------------|
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| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| 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                         | 86  | 79  | 76        | 85  | 79  | 75  | 85            | 79  | 75  | 72     |
| 0.80                             | 94  | 88  | 84        | 93  | 87  | 84  | 92            | 87  | 83  | 79     |
| 1.00                             | 98  | 93  | 89        | 98  | 92  | 89  | 96            | 92  | 88  | 84     |
| 1.25                             | 103   | 97  | 94        | 101 | 97  | 93  | 100           | 95  | 92  | 88     |
| 1.50                             | 105   | 100 | 97        | 104 | 100 | 97  | 102           | 98  | 95  | 91     |
| 2.00                             | 108   | 104 | 101       | 107 | 103 | 100 | 104           | 101 | 98  | 93     |
| 2.50                             | 110   | 106 | 103       | 108 | 105 | 102 | 105           | 102 | 100 | 94     |
| 3.00                             | 112   | 108 | 105       | 110 | 107 | 104 | 106           | 104 | 102 | 96     |
| 4.00                             | 114   | 111 | 109       | 112 | 109 | 107 | 108           | 106 | 104 | 97     |
| 5.00                             | 115   | 113 | 111       | 113 | 111 | 109 | 109           | 107 | 106 | 98     |
| 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:2017-05-19

$\gamma$  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:

**ISOCANDELA DIAGRAM**

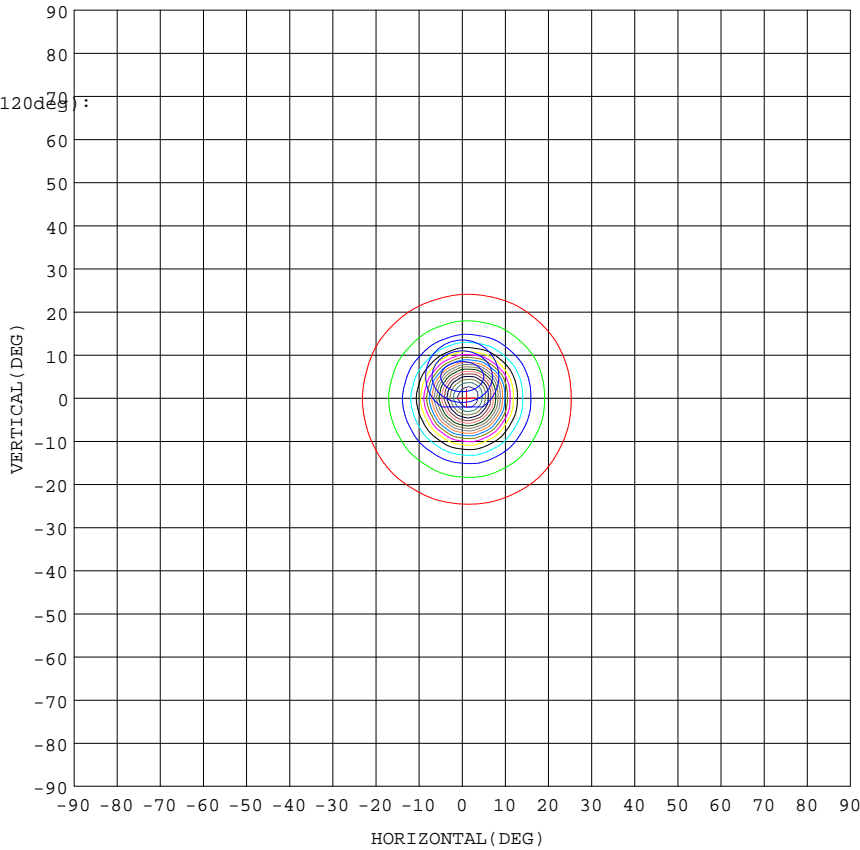
|   |                    |             |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
| NAME: PURE S-21W-940-15   | TYPE:Tracklight    | SERIAL No.: |
| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

Conical surface Flux(90deg):

1506.6 lm  
%lum = 94.1%  
%lamp = 94.1%

Conical surface Flux(120deg):

1583.9 lm  
%lum = 98.9%  
%lamp = 98.9%



1. AVG=7697, MIN=4747
2. AVG=7018, MIN=2928
3. AVG=6255, MIN=1895

Imax:10616(H1.0,V0.0)  
(At:C=0.0,Gamma=1.0)  
UNIT: cd

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-19

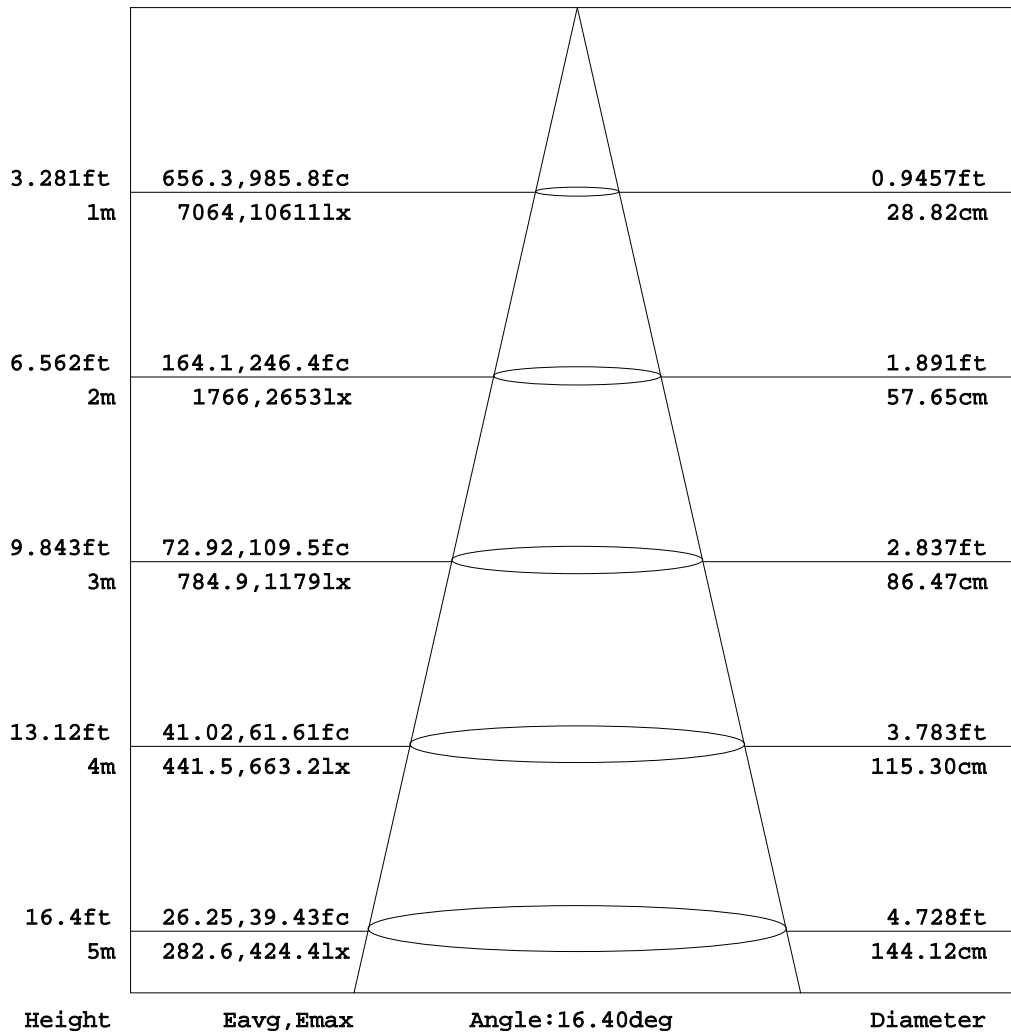
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:



**AAI Figure**

|   |                    |             |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
| NAME: PURE S-21W-940-15   | TYPE:Tracklight    | SERIAL No.: |
| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

Flux out:556.7 lm



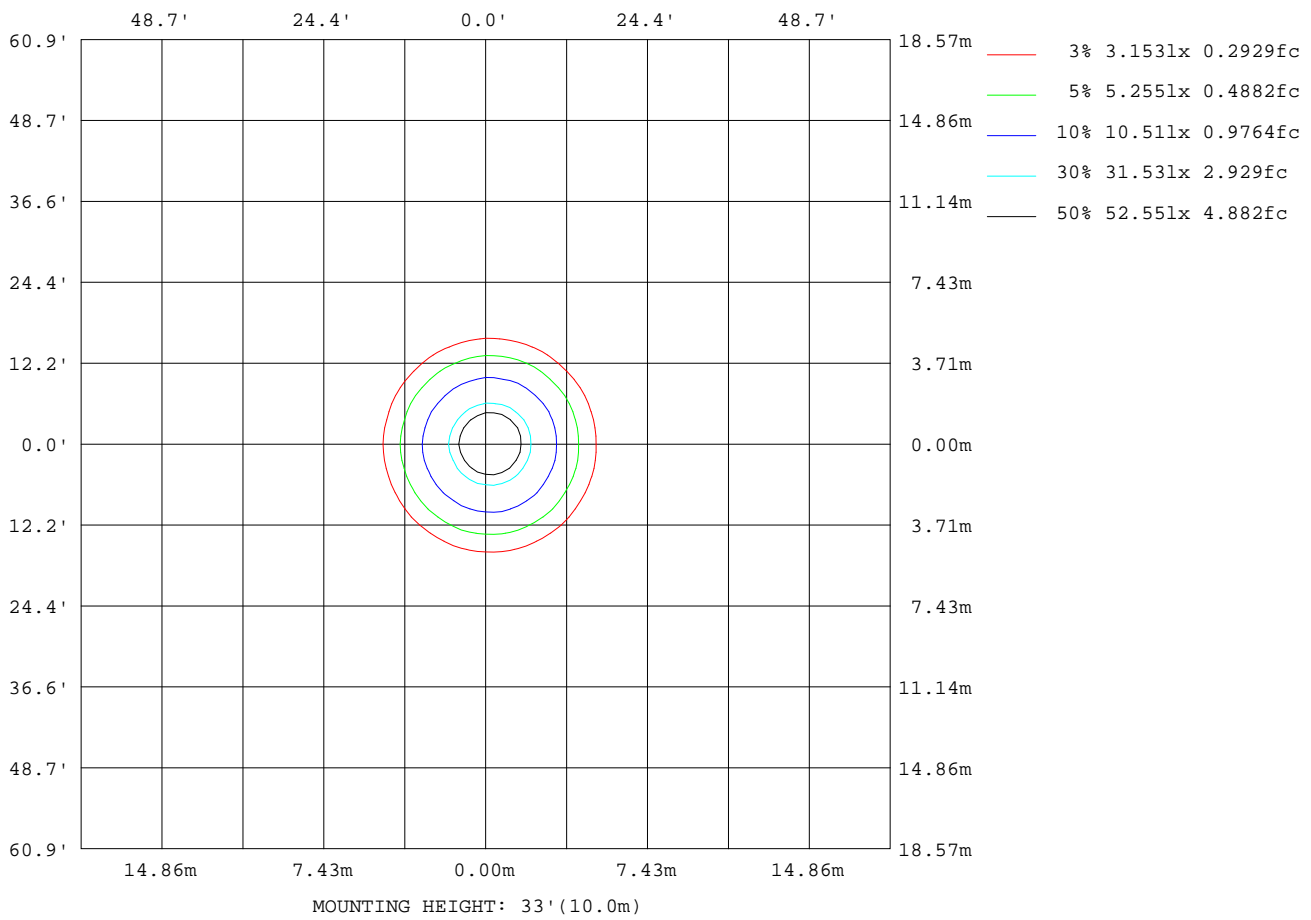
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-19

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**

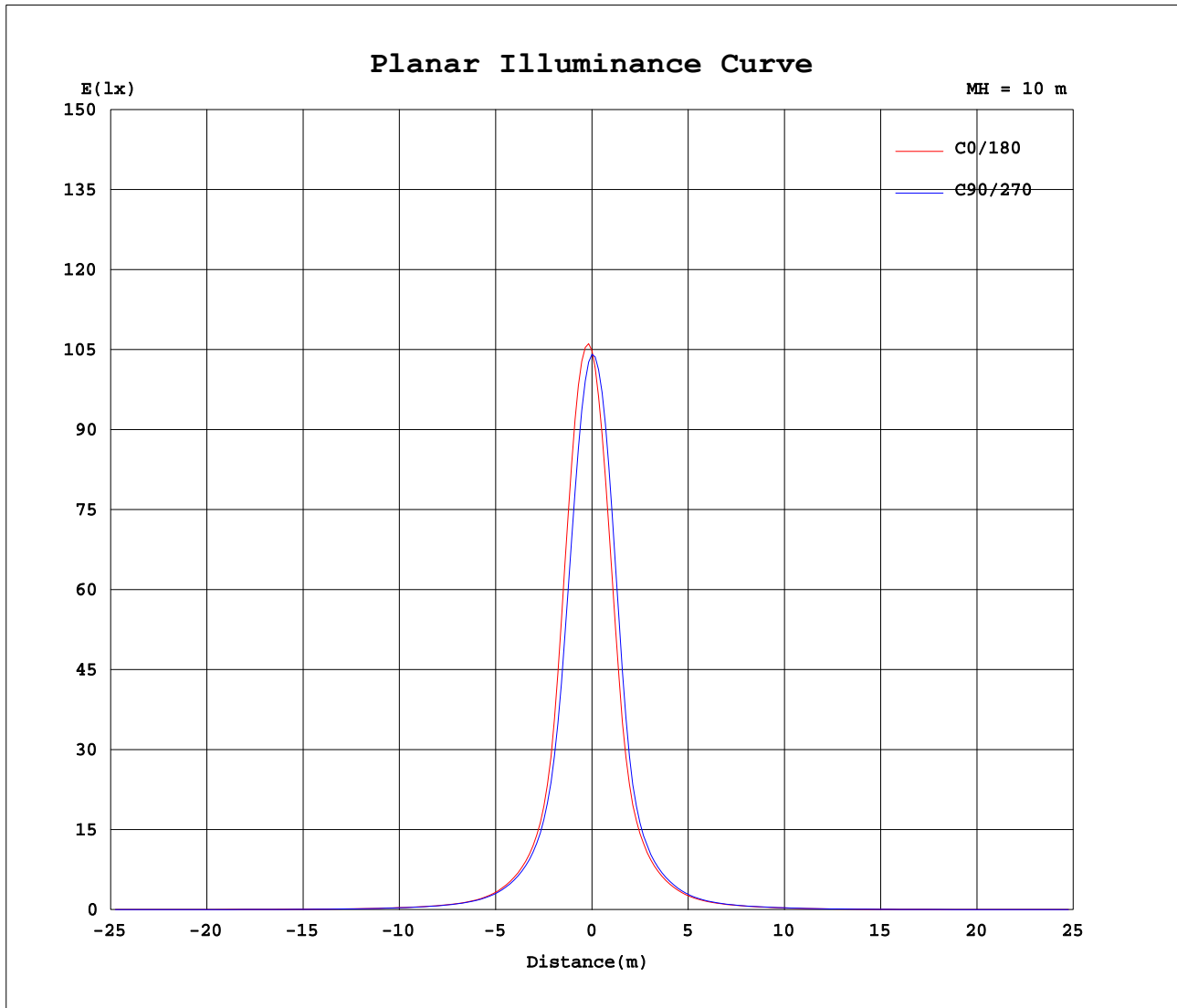
|   |                    |             |
|---|--------------------|-------------|
| Test:U:220.7V I:0.0987A P:20.45W PF:0.9386 Lamp Flux:1601.33x1 lm |                    |             |
| NAME: PURE S-21W-940-15   | TYPE:Tracklight    | SERIAL No.: |
| SPEC.:4000K   | DIM.: φ70mm*H138mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-19

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: 2017-05-19

$\gamma$  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:





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  | 10480  | 10443  | 10461  | 10428  | 10434  | 10417  | 10411  | 10416  | 10398  | 10424  |
| 3.0  | 10324  | 10306  | 10166  | 10066  | 9830   | 9683   | 9399   | 9274   | 9012   | 8952   |
| 6.0  | 8502   | 8489   | 8200   | 8055   | 7677   | 7477   | 7068   | 6874   | 6506   | 6411   |
| 9.0  | 5637   | 5679   | 5399   | 5315   | 4953   | 4799   | 4407   | 4238   | 3882   | 3790   |
| 12.0 | 3073   | 3118   | 2995   | 2988   | 2832   | 2760   | 2555   | 2446   | 2256   | 2191   |
| 15.0 | 1815   | 1836   | 1787   | 1800   | 1734   | 1706   | 1602   | 1549   | 1453   | 1442   |
| 18.0 | 1210   | 1219   | 1193   | 1206   | 1171   | 1152   | 1094   | 1063   | 1006   | 988.5  |
| 21.0 | 850.7  | 859.7  | 845.6  | 853.3  | 828.7  | 814.3  | 778.1  | 757.3  | 718.2  | 704.0  |
| 24.0 | 608.2  | 617.8  | 609.1  | 613.9  | 592.6  | 585.1  | 563.4  | 544.9  | 516.3  | 504.4  |
| 27.0 | 435.8  | 443.2  | 437.8  | 441.4  | 429.2  | 422.7  | 405.8  | 395.3  | 375.7  | 367.2  |
| 30.0 | 319.5  | 324.8  | 321.4  | 324.1  | 316.7  | 313.4  | 302.4  | 295.1  | 282.4  | 276.3  |
| 33.0 | 243.7  | 247.1  | 244.8  | 246.6  | 242.1  | 240.1  | 232.9  | 228.3  | 220.0  | 215.6  |
| 36.0 | 193.0  | 195.3  | 193.1  | 194.7  | 191.8  | 190.8  | 185.4  | 182.6  | 176.8  | 173.5  |
| 39.0 | 157.4  | 158.6  | 156.7  | 157.9  | 155.6  | 154.8  | 150.8  | 149.0  | 145.1  | 142.1  |
| 42.0 | 130.3  | 131.3  | 130.3  | 130.3  | 128.4  | 127.8  | 124.7  | 123.0  | 120.9  | 117.4  |
| 45.0 | 109.2  | 109.5  | 108.4  | 108.2  | 106.7  | 105.4  | 103.0  | 101.7  | 99.77  | 96.75  |
| 48.0 | 89.60  | 89.82  | 88.63  | 87.87  | 85.80  | 84.29  | 81.94  | 80.71  | 79.20  | 76.67  |
| 51.0 | 71.06  | 71.16  | 70.21  | 69.38  | 67.61  | 66.26  | 64.66  | 63.66  | 62.71  | 60.73  |
| 54.0 | 56.25  | 56.48  | 55.55  | 55.00  | 53.28  | 52.39  | 50.88  | 50.39  | 49.31  | 48.09  |
| 57.0 | 44.14  | 44.30  | 43.34  | 42.73  | 41.00  | 40.08  | 38.65  | 38.15  | 37.14  | 36.08  |
| 60.0 | 33.19  | 33.32  | 32.46  | 31.88  | 30.43  | 29.59  | 28.28  | 27.72  | 26.81  | 25.98  |
| 63.0 | 24.30  | 24.28  | 23.60  | 23.19  | 22.16  | 21.52  | 20.55  | 20.10  | 19.24  | 18.59  |
| 66.0 | 17.06  | 16.96  | 16.25  | 15.93  | 14.92  | 14.30  | 13.20  | 12.79  | 11.84  | 11.35  |
| 69.0 | 9.697  | 9.499  | 8.746  | 8.455  | 7.475  | 7.058  | 6.012  | 5.664  | 4.933  | 4.649  |
| 72.0 | 3.328  | 3.251  | 2.755  | 2.573  | 2.085  | 1.852  | 1.284  | 1.111  | 0.8076 | 0.7285 |
| 75.0 | 0.5606 | 0.5629 | 0.5119 | 0.4910 | 0.4656 | 0.4474 | 0.4038 | 0.3495 | 0.3442 | 0.3233 |
| 78.0 | 0.3022 | 0.2862 | 0.2934 | 0.2731 | 0.2802 | 0.2556 | 0.2627 | 0.2359 | 0.2474 | 0.2271 |
| 81.0 | 0.2168 | 0.1987 | 0.2102 | 0.1857 | 0.1970 | 0.1725 | 0.1818 | 0.1594 | 0.1752 | 0.1507 |
| 84.0 | 0.1554 | 0.1288 | 0.1467 | 0.1201 | 0.1336 | 0.1092 | 0.1270 | 0.0983 | 0.1226 | 0.0982 |
| 87.0 | 0.1051 | 0.0830 | 0.1029 | 0.0764 | 0.0920 | 0.0678 | 0.0832 | 0.0678 | 0.0789 | 0.0678 |
| 90.0 | 0.0743 | 0.0678 | 0.0700 | 0.0678 | 0.0678 | 0.0678 | 0.0700 | 0.0678 | 0.0700 | 0.0700 |
| G/C  | 150.0  | 165.0  | 180.0  | 195.0  | 210.0  | 225.0  | 240.0  | 255.0  | 270.0  | 285.0  |
| 0.0  | 10398  | 10436  | 10480  | 10443  | 10461  | 10428  | 10434  | 10417  | 10411  | 10416  |
| 3.0  | 8774   | 8823   | 8952   | 8897   | 9056   | 9107   | 9346   | 9468   | 9740   | 9897   |
| 6.0  | 6170   | 6208   | 6336   | 6253   | 6457   | 6516   | 6873   | 7076   | 7541   | 7803   |
| 9.0  | 3561   | 3576   | 3648   | 3556   | 3704   | 3732   | 4034   | 4203   | 4642   | 4872   |
| 12.0 | 2082   | 2073   | 2099   | 2040   | 2090   | 2087   | 2217   | 2295   | 2505   | 2610   |
| 15.0 | 1366   | 1375   | 1386   | 1332   | 1374   | 1350   | 1431   | 1443   | 1543   | 1585   |
| 18.0 | 950.2  | 944.2  | 951.2  | 932.5  | 948.3  | 943.7  | 976.8  | 993.5  | 1051   | 1081   |
| 21.0 | 676.9  | 670.9  | 675.4  | 664.4  | 676.1  | 673.1  | 694.5  | 706.8  | 745.9  | 766.4  |
| 24.0 | 484.2  | 479.2  | 482.3  | 473.8  | 482.4  | 481.8  | 498.0  | 507.0  | 534.6  | 551.3  |
| 27.0 | 353.0  | 348.9  | 350.3  | 343.8  | 349.3  | 349.3  | 360.6  | 366.4  | 383.4  | 392.4  |
| 30.0 | 266.9  | 263.8  | 264.3  | 259.9  | 263.4  | 263.2  | 270.6  | 273.9  | 284.8  | 290.0  |
| 33.0 | 209.1  | 206.8  | 207.1  | 204.0  | 206.3  | 206.0  | 210.9  | 213.2  | 220.1  | 223.6  |
| 36.0 | 168.5  | 166.9  | 167.2  | 164.8  | 166.5  | 166.0  | 169.7  | 171.3  | 176.3  | 178.6  |
| 39.0 | 138.2  | 137.0  | 137.4  | 135.5  | 136.8  | 136.5  | 139.3  | 140.5  | 144.5  | 146.3  |
| 42.0 | 114.7  | 113.3  | 113.8  | 112.8  | 113.6  | 113.9  | 115.8  | 117.3  | 120.2  | 122.1  |
| 45.0 | 94.01  | 93.09  | 93.94  | 93.32  | 94.48  | 94.63  | 96.52  | 97.99  | 100.9  | 102.7  |
| 48.0 | 74.39  | 73.78  | 74.61  | 74.35  | 75.57  | 75.73  | 77.50  | 78.96  | 81.93  | 83.80  |
| 51.0 | 58.87  | 58.53  | 59.27  | 58.99  | 60.20  | 60.15  | 61.75  | 63.06  | 65.30  | 66.78  |
| 54.0 | 46.43  | 46.27  | 46.94  | 46.81  | 47.92  | 47.90  | 49.21  | 50.06  | 52.25  | 53.29  |
| 57.0 | 34.66  | 34.49  | 35.17  | 35.13  | 36.16  | 36.20  | 37.29  | 38.11  | 40.18  | 41.30  |
| 60.0 | 24.90  | 24.79  | 25.36  | 25.35  | 26.29  | 26.32  | 27.24  | 27.91  | 29.74  | 30.65  |
| 63.0 | 17.67  | 17.60  | 18.09  | 18.16  | 18.92  | 18.99  | 19.75  | 20.27  | 21.72  | 22.46  |
| 66.0 | 10.52  | 10.56  | 10.99  | 10.96  | 11.70  | 11.82  | 12.63  | 13.11  | 14.52  | 15.23  |
| 69.0 | 4.085  | 4.173  | 4.428  | 4.373  | 4.866  | 5.045  | 5.771  | 6.229  | 7.237  | 7.820  |
| 72.0 | 0.6828 | 0.6784 | 0.7170 | 0.7105 | 0.7997 | 0.8489 | 1.161  | 1.453  | 1.951  | 2.257  |
| 75.0 | 0.3263 | 0.3146 | 0.3101 | 0.3242 | 0.3167 | 0.3441 | 0.3645 | 0.3903 | 0.4232 | 0.4564 |
| 78.0 | 0.2321 | 0.2206 | 0.2162 | 0.2342 | 0.2228 | 0.2473 | 0.2424 | 0.2670 | 0.2599 | 0.2866 |
| 81.0 | 0.1663 | 0.1485 | 0.1441 | 0.1641 | 0.1528 | 0.1773 | 0.1659 | 0.1904 | 0.1791 | 0.2057 |
| 84.0 | 0.1139 | 0.0961 | 0.0939 | 0.1160 | 0.0939 | 0.1226 | 0.1091 | 0.1335 | 0.1200 | 0.1466 |
| 87.0 | 0.0767 | 0.0722 | 0.0678 | 0.0788 | 0.0612 | 0.0832 | 0.0678 | 0.0919 | 0.0742 | 0.1007 |
| 90.0 | 0.0700 | 0.0722 | 0.0678 | 0.0656 | 0.0590 | 0.0634 | 0.0590 | 0.0612 | 0.0612 | 0.0678 |
| G/C  | 300.0  | 315.0  | 330.0  | 345.0  |        |        |        |        |        |        |
| 0.0  | 10398  | 10424  | 10398  | 10436  |        |        |        |        |        |        |
| 3.0  | 10125  | 10236  | 10365  | 10376  |        |        |        |        |        |        |
| 6.0  | 8257   | 8431   | 8699   | 8657   |        |        |        |        |        |        |
| 9.0  | 5330   | 5506   | 5833   | 5798   |        |        |        |        |        |        |
| 12.0 | 2856   | 2954   | 3159   | 3151   |        |        |        |        |        |        |
| 15.0 | 1698   | 1738   | 1835   | 1836   |        |        |        |        |        |        |
| 18.0 | 1141   | 1162   | 1216   | 1220   |        |        |        |        |        |        |
| 21.0 | 804.4  | 818.3  | 851.8  | 855.3  |        |        |        |        |        |        |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-19

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 | 574.9  | 587.2  | 607.8  | 610.4  |
| 27.0 | 410.3  | 417.8  | 433.8  | 436.3  |
| 30.0 | 302.0  | 306.9  | 317.7  | 319.3  |
| 33.0 | 231.5  | 235.1  | 242.1  | 243.7  |
| 36.0 | 184.3  | 186.6  | 191.7  | 192.8  |
| 39.0 | 150.8  | 152.5  | 156.5  | 157.2  |
| 42.0 | 125.5  | 126.8  | 129.9  | 130.3  |
| 45.0 | 105.9  | 106.8  | 108.7  | 109.3  |
| 48.0 | 87.18  | 87.85  | 89.59  | 89.89  |
| 51.0 | 69.49  | 69.81  | 71.10  | 71.22  |
| 54.0 | 55.48  | 55.46  | 56.46  | 56.31  |
| 57.0 | 43.36  | 43.47  | 44.42  | 44.31  |
| 60.0 | 32.53  | 32.69  | 33.54  | 33.41  |
| 63.0 | 23.80  | 23.98  | 24.64  | 24.55  |
| 66.0 | 16.49  | 16.72  | 17.40  | 17.35  |
| 69.0 | 8.994  | 9.325  | 10.04  | 9.998  |
| 72.0 | 2.917  | 3.175  | 3.666  | 3.659  |
| 75.0 | 0.5212 | 0.5487 | 0.5996 | 0.5923 |
| 78.0 | 0.2795 | 0.2955 | 0.2883 | 0.3042 |
| 81.0 | 0.1900 | 0.2145 | 0.2030 | 0.2188 |
| 84.0 | 0.1331 | 0.1510 | 0.1332 | 0.1532 |
| 87.0 | 0.0808 | 0.1050 | 0.0851 | 0.1051 |
| 90.0 | 0.0678 | 0.0722 | 0.0656 | 0.0700 |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-19

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: