

LED Downlight SENSE Series S100R1-13W-930-W



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 14.36 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: 2017-05-12

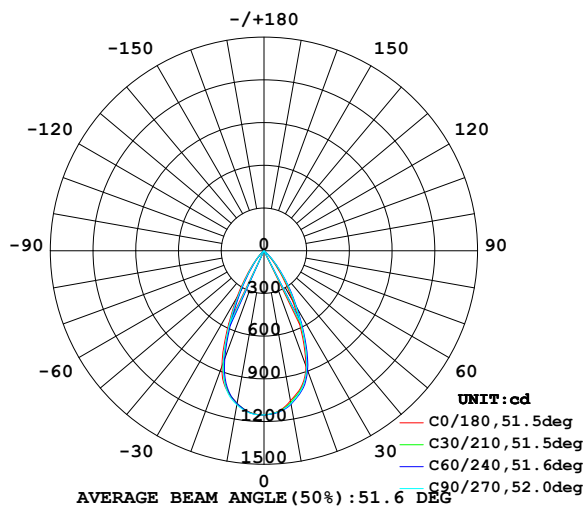
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

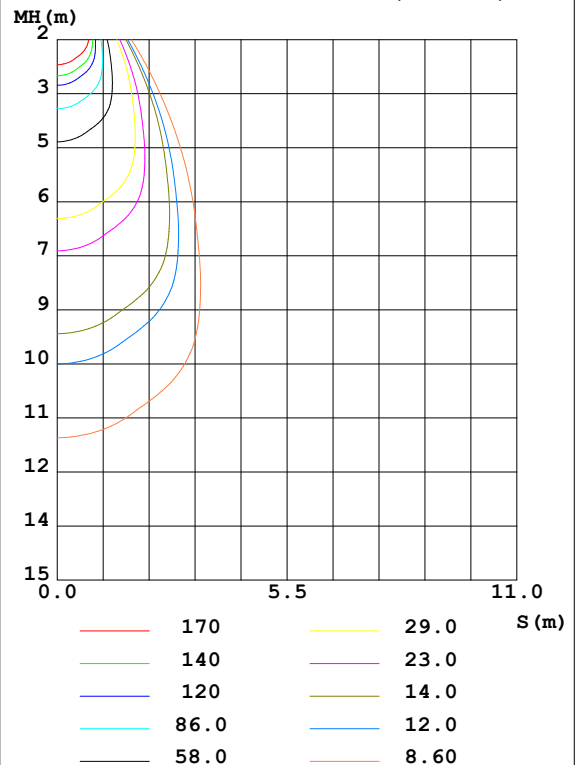
| | | |
|---|---------------------------|-------------|
| Test:U:220.8V I:0.0712A P:14.36W PF:0.9132 Lamp Flux:852.582x1 lm | | |
| NAME: S100R1-13W-930-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: ϕ 108mm*H126mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 59.39 lm/W | | | |
|-------------------|---------------|----------------------------------|--------|--------------------------|-----------|
| MODEL | CITIZEN-3000K | I _{max} (cd) | 1154 | S/MH (C0/180) | 0.78 |
| NOMINAL POWER (W) | 15 | LOR (%) | 100.0 | S/MH (C90/270) | 0.76 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 852.58 | η UP, DN (C0-180) | 0.0, 52.5 |
| NOMINAL FLUX (lm) | 852.582 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 47.5 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE (V) | 220 | η down (%) | 100.0 | CIBSE SHR MAX | 0.80 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



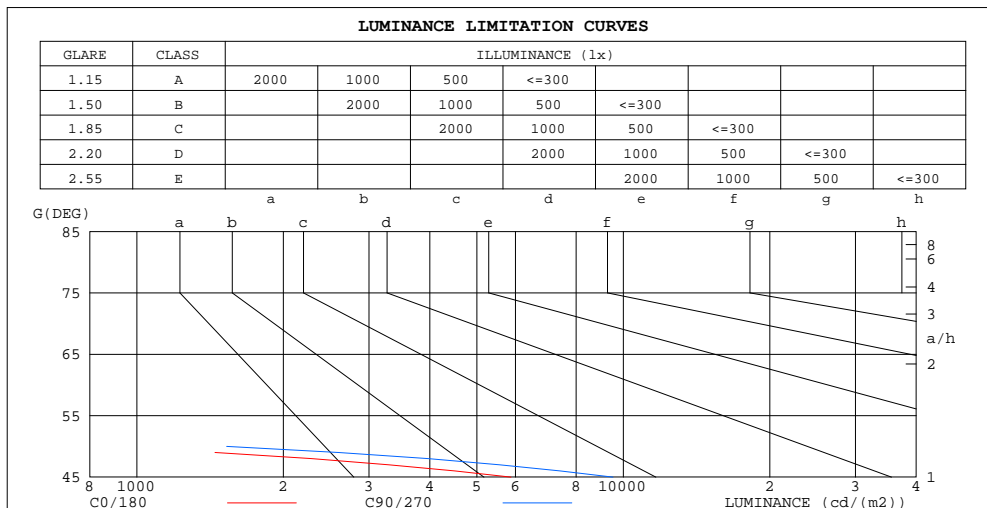
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-05-12

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:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | $\%lum, lamp$ |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|---------------|
| 10 | 1069 | 1091 | 1090 | 1085 | 1088 | 1087 | 1099 | 1084 | 0- 10 | 107.0 | 107.0 | 12.5,12.5 |
| 20 | 861.6 | 891.4 | 874.5 | 864.5 | 866.5 | 812.0 | 838.5 | 859.2 | 10- 20 | 279.0 | 385.9 | 45.3,45.3 |
| 30 | 400.0 | 456.7 | 448.5 | 423.0 | 386.0 | 326.0 | 356.8 | 377.6 | 20- 30 | 280.8 | 666.8 | 78.2,78.2 |
| 40 | 109.7 | 149.7 | 150.7 | 132.5 | 106.4 | 84.91 | 95.50 | 98.53 | 30- 40 | 146.5 | 813.2 | 95.4,95.4 |
| 50 | 4.696 | 8.920 | 9.001 | 8.254 | 7.604 | 4.861 | 5.341 | 4.489 | 40- 50 | 37.78 | 851.0 | 99.8,99.8 |
| 60 | 0.3047 | 0.3512 | 0.3487 | 0.3468 | 0.3553 | 0.3308 | 0.3423 | 0.3198 | 50- 60 | 1.361 | 852.4 | 100,100 |
| 70 | 0.0656 | 0.0415 | 0.0634 | 0.0372 | 0.0459 | 0.0853 | 0.0677 | 0.0853 | 60- 70 | 0.1233 | 852.5 | 100,100 |
| 80 | 0.0351 | 0.0328 | 0.0350 | 0.0372 | 0.0241 | 0.0372 | 0.0241 | 0.0328 | 70- 80 | 0.0431 | 852.5 | 100,100 |
| 90 | 0.0350 | 0.0350 | 0.0350 | 0.0372 | 0.0241 | 0.0241 | 0.0241 | 0.0241 | 80- 90 | 0.0344 | 852.6 | 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 | 44 | 44 |
| 80 | 22 | 22 |
| 75 | 17 | 18 |
| 70 | 21 | 20 |
| 65 | 23 | 20 |
| 60 | 67 | 76 |
| 55 | 181 | 223 |
| 50 | 798 | 1529 |
| 45 | 5875 | 9517 |

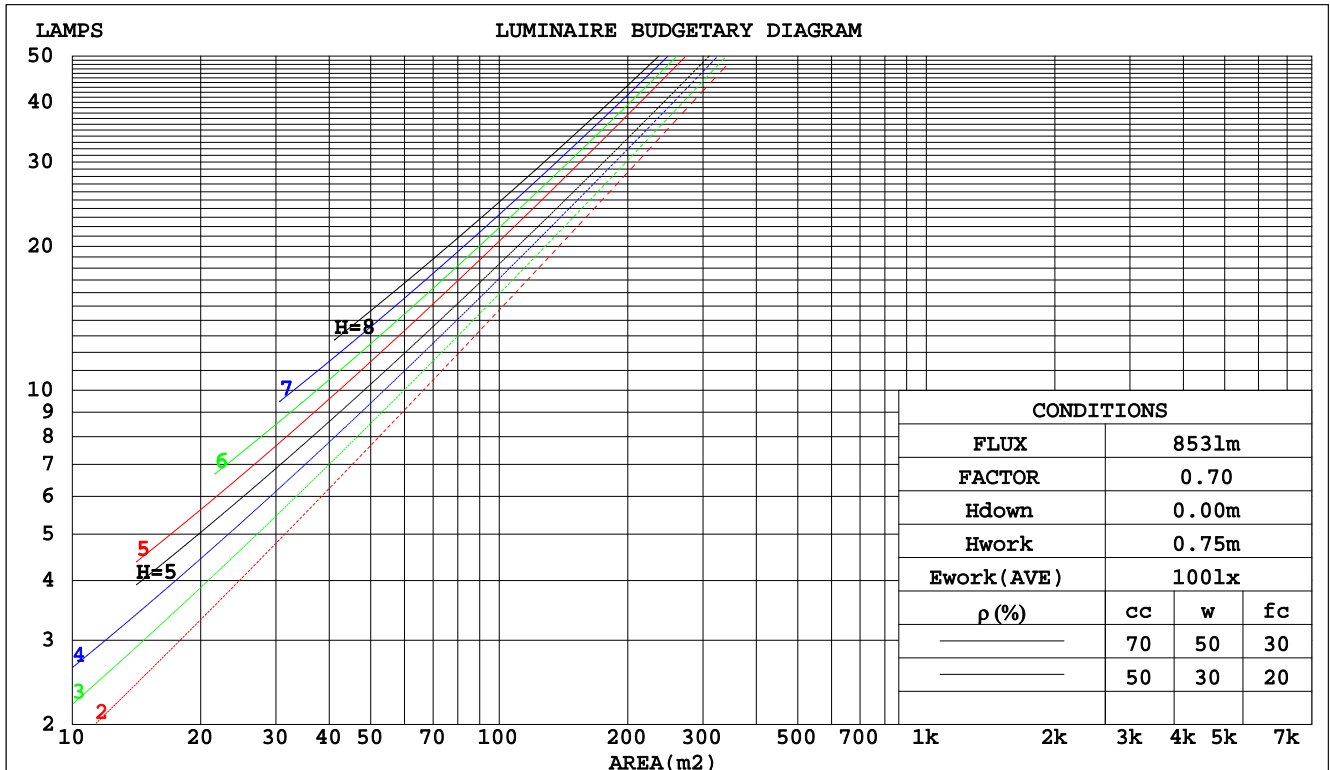
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C Interval: 15.0DEG
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Temperature:25.3DEG
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---------------------------|-------------|
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| SPEC.:3000K | DIM.: ϕ 108mm*H126mm | |
| MFR.: NEKO LIGHTING AG | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| 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 | 1.11 | 1.09 | 1.07 | 1.09 | 1.07 | 1.05 | 1.05 | 1.03 | 1.02 | 1.01 | 1.00 | .99 | .98 | .97 | .96 | .94 |
| 2.0 | 1.04 | 1.00 | .97 | 1.02 | .99 | .96 | .99 | .96 | .94 | .96 | .94 | .92 | .93 | .92 | .90 | .88 |
| 3.0 | .98 | .93 | .89 | .96 | .92 | .89 | .94 | .90 | .87 | .91 | .88 | .86 | .89 | .87 | .84 | .83 |
| 4.0 | .92 | .87 | .83 | .91 | .86 | .82 | .88 | .84 | .81 | .87 | .83 | .80 | .85 | .82 | .79 | .78 |
| 5.0 | .86 | .81 | .77 | .85 | .80 | .77 | .84 | .79 | .76 | .82 | .78 | .75 | .81 | .77 | .75 | .73 |
| 6.0 | .82 | .76 | .72 | .81 | .75 | .72 | .79 | .75 | .71 | .78 | .74 | .71 | .77 | .73 | .70 | .69 |
| 7.0 | .77 | .71 | .67 | .76 | .71 | .67 | .75 | .70 | .67 | .74 | .70 | .67 | .73 | .69 | .66 | .65 |
| 8.0 | .73 | .67 | .63 | .72 | .67 | .63 | .71 | .67 | .63 | .70 | .66 | .63 | .69 | .65 | .63 | .61 |
| 9.0 | .69 | .64 | .60 | .69 | .63 | .60 | .68 | .63 | .60 | .67 | .63 | .59 | .66 | .62 | .59 | .58 |
| 10.0 | .66 | .60 | .57 | .65 | .60 | .57 | .65 | .60 | .56 | .64 | .59 | .56 | .63 | .59 | .56 | .55 |



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 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

| | | |
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| SPEC.:3000K | DIM.: ϕ 108mm*H126mm | |
| MFR.: NEKO LIGHTING AG | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .169 | .096 | .030 | .162 | .092 | .029 | .149 | .086 | .027 | .138 | .079 | .026 | .127 | .074 | .024 | | |
| 2.0 | .161 | .088 | .027 | .155 | .085 | .026 | .145 | .080 | .025 | .135 | .076 | .024 | .126 | .071 | .022 | | |
| 3.0 | .153 | .081 | .024 | .148 | .079 | .024 | .139 | .076 | .023 | .131 | .072 | .022 | .123 | .068 | .021 | | |
| 4.0 | .146 | .076 | .022 | .142 | .074 | .022 | .134 | .071 | .021 | .127 | .068 | .021 | .120 | .065 | .020 | | |
| 5.0 | .139 | .071 | .021 | .136 | .070 | .020 | .129 | .067 | .020 | .123 | .065 | .019 | .117 | .062 | .019 | | |
| 6.0 | .133 | .067 | .019 | .130 | .066 | .019 | .124 | .064 | .018 | .119 | .062 | .018 | .113 | .060 | .018 | | |
| 7.0 | .127 | .063 | .018 | .125 | .062 | .018 | .119 | .060 | .017 | .115 | .059 | .017 | .110 | .057 | .017 | | |
| 8.0 | .122 | .060 | .017 | .120 | .059 | .017 | .115 | .057 | .016 | .111 | .056 | .016 | .107 | .055 | .016 | | |
| 9.0 | .117 | .057 | .016 | .115 | .056 | .016 | .111 | .055 | .016 | .107 | .054 | .015 | .103 | .052 | .015 | | |
| 10.0 | .113 | .054 | .015 | .111 | .053 | .015 | .107 | .052 | .015 | .103 | .051 | .015 | .100 | .050 | .014 | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|-------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|--|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| ρ_{fc} | 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 | .171 | .157 | .146 | .146 | .135 | .125 | .100 | .093 | .087 | .057 | .054 | .050 | .018 | .017 | .016 | | |
| 2.0 | .155 | .133 | .114 | .133 | .114 | .098 | .091 | .079 | .069 | .052 | .046 | .040 | .017 | .015 | .013 | | |
| 3.0 | .142 | .114 | .091 | .122 | .098 | .079 | .084 | .068 | .055 | .048 | .040 | .033 | .016 | .013 | .011 | | |
| 4.0 | .131 | .099 | .074 | .113 | .085 | .064 | .078 | .059 | .045 | .045 | .035 | .027 | .014 | .011 | .009 | | |
| 5.0 | .122 | .087 | .061 | .105 | .075 | .053 | .072 | .053 | .037 | .042 | .031 | .022 | .014 | .010 | .007 | | |
| 6.0 | .115 | .078 | .051 | .099 | .067 | .044 | .068 | .047 | .031 | .040 | .028 | .019 | .013 | .009 | .006 | | |
| 7.0 | .108 | .070 | .043 | .093 | .061 | .037 | .064 | .042 | .027 | .037 | .025 | .016 | .012 | .008 | .005 | | |
| 8.0 | .103 | .064 | .037 | .088 | .055 | .032 | .061 | .039 | .023 | .036 | .023 | .014 | .012 | .007 | .004 | | |
| 9.0 | .098 | .058 | .032 | .084 | .051 | .028 | .058 | .036 | .020 | .034 | .021 | .012 | .011 | .007 | .004 | | |
| 10.0 | .093 | .054 | .028 | .080 | .047 | .024 | .056 | .033 | .017 | .032 | .020 | .010 | .011 | .006 | .003 | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-05-12

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:220.8V I:0.0712A P:14.36W PF:0.9132 Lamp Flux:852.582x1 lm | | |
| NAME: S100R1-13W-930-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: ϕ 108mm*H126mm | |
| 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 | 15.4 | 16.3 | 15.7 | 16.5 | 16.7 | 16.4 | 17.3 | 16.7 | 17.5 | 17.7 |
| 3H | 15.3 | 16.1 | 15.5 | 16.3 | 16.5 | 16.3 | 17.1 | 16.5 | 17.3 | 17.5 |
| 4H | 15.2 | 16.0 | 15.5 | 16.2 | 16.4 | 16.2 | 17.0 | 16.5 | 17.2 | 17.4 |
| 6H | 15.1 | 15.8 | 15.4 | 16.1 | 16.3 | 16.1 | 16.8 | 16.4 | 17.1 | 17.3 |
| 8H | 15.1 | 15.8 | 15.4 | 16.0 | 16.3 | 16.0 | 16.7 | 16.4 | 17.0 | 17.3 |
| 12H | 15.0 | 15.7 | 15.3 | 15.9 | 16.2 | 16.0 | 16.7 | 16.3 | 16.9 | 17.2 |
| 4H 2H | 15.2 | 16.0 | 15.5 | 16.2 | 16.4 | 16.2 | 17.0 | 16.5 | 17.2 | 17.4 |
| 3H | 15.0 | 15.7 | 15.3 | 15.9 | 16.2 | 16.0 | 16.7 | 16.3 | 16.9 | 17.2 |
| 4H | 14.9 | 15.5 | 15.3 | 15.8 | 16.1 | 15.9 | 16.5 | 16.3 | 16.8 | 17.1 |
| 6H | 14.8 | 15.4 | 15.2 | 15.7 | 16.0 | 15.8 | 16.3 | 16.2 | 16.7 | 17.0 |
| 8H | 14.8 | 15.3 | 15.2 | 15.6 | 16.0 | 15.8 | 16.3 | 16.1 | 16.6 | 17.0 |
| 12H | 14.7 | 15.2 | 15.1 | 15.5 | 15.9 | 15.7 | 16.2 | 16.1 | 16.5 | 16.9 |
| 8H 4H | 14.8 | 15.3 | 15.2 | 15.6 | 16.0 | 15.8 | 16.3 | 16.1 | 16.6 | 17.0 |
| 6H | 14.7 | 15.1 | 15.1 | 15.5 | 15.9 | 15.7 | 16.1 | 16.1 | 16.5 | 16.9 |
| 8H | 14.6 | 15.0 | 15.1 | 15.4 | 15.8 | 15.6 | 16.0 | 16.0 | 16.4 | 16.8 |
| 12H | 14.6 | 14.9 | 15.0 | 15.3 | 15.8 | 15.5 | 15.8 | 16.0 | 16.3 | 16.8 |
| 12H 4H | 14.7 | 15.2 | 15.1 | 15.5 | 15.9 | 15.7 | 16.2 | 16.1 | 16.5 | 16.9 |
| 6H | 14.6 | 15.0 | 15.1 | 15.4 | 15.8 | 15.6 | 16.0 | 16.0 | 16.4 | 16.8 |
| 8H | 14.6 | 14.9 | 15.0 | 15.3 | 15.8 | 15.5 | 15.8 | 16.0 | 16.3 | 16.8 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 2.7 / -28.8 | | | | | + 3.0 / -29.1 | | | | |
| 1.5H | + 5.2 / -24.2 | | | | | + 5.3 / -24.9 | | | | |
| 2.0H | + 7.8 / -24.4 | | | | | + 8.1 / -27.2 | | | | |

CIE Pub.117 Corrected 852.6 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.6)

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C Interval: 15.0DEG
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 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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| 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 89 | 83 | 79 | 88 | 82 | 79 | 87 | 82 | 79 | 75 |
| 0.80 | 96 | 90 | 87 | 95 | 90 | 87 | 94 | 90 | 86 | 83 |
| 1.00 | 100 | 95 | 92 | 99 | 95 | 91 | 98 | 94 | 91 | 87 |
| 1.25 | 104 | 99 | 96 | 103 | 99 | 96 | 101 | 97 | 95 | 91 |
| 1.50 | 107 | 102 | 99 | 106 | 102 | 99 | 103 | 100 | 98 | 93 |
| 2.00 | 109 | 105 | 102 | 108 | 104 | 101 | 105 | 102 | 100 | 95 |
| 2.50 | 111 | 107 | 104 | 109 | 106 | 103 | 106 | 104 | 102 | 96 |
| 3.00 | 112 | 109 | 106 | 110 | 108 | 105 | 107 | 105 | 103 | 97 |
| 4.00 | 114 | 112 | 109 | 112 | 110 | 108 | 109 | 107 | 105 | 98 |
| 5.00 | 115 | 113 | 111 | 113 | 111 | 110 | 109 | 108 | 107 | 99 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

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ISOCANDELA DIAGRAM

| | | |
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Conical surface Flux(90deg):

841.79 lm

%lum = 98.7%

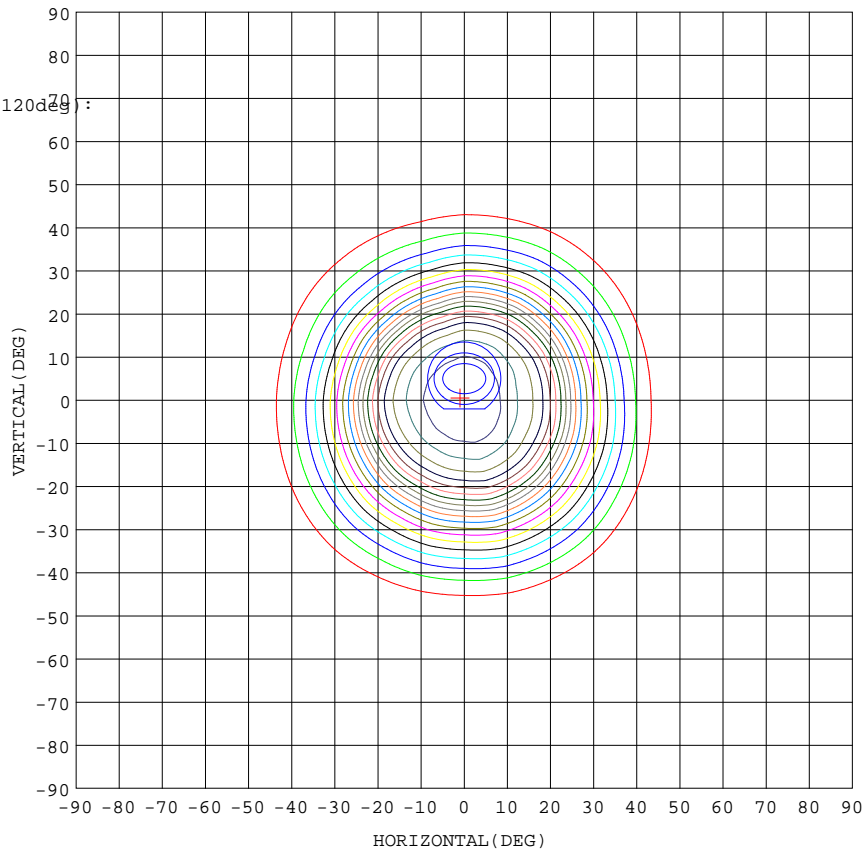
%lamp = 98.7%

Conical surface Flux(120deg):

852.38 lm

%lum = 100.0%

%lamp = 100.0%



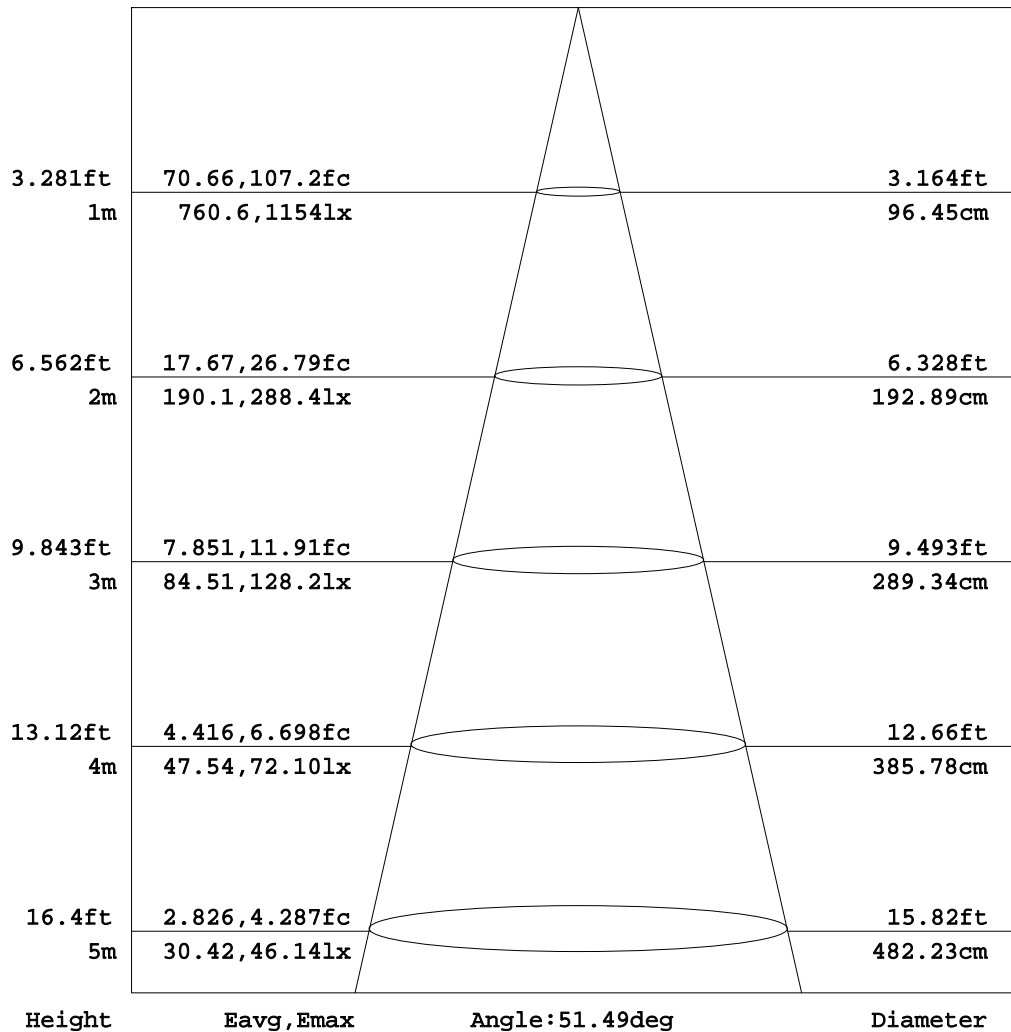
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Remarks:

AAI Figure

| | | |
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| NAME: S100R1-13W-930-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: ϕ 108mm*H126mm | |
| MFR.: NEKO LIGHTING AG | | |

Flux out:568.4 lm



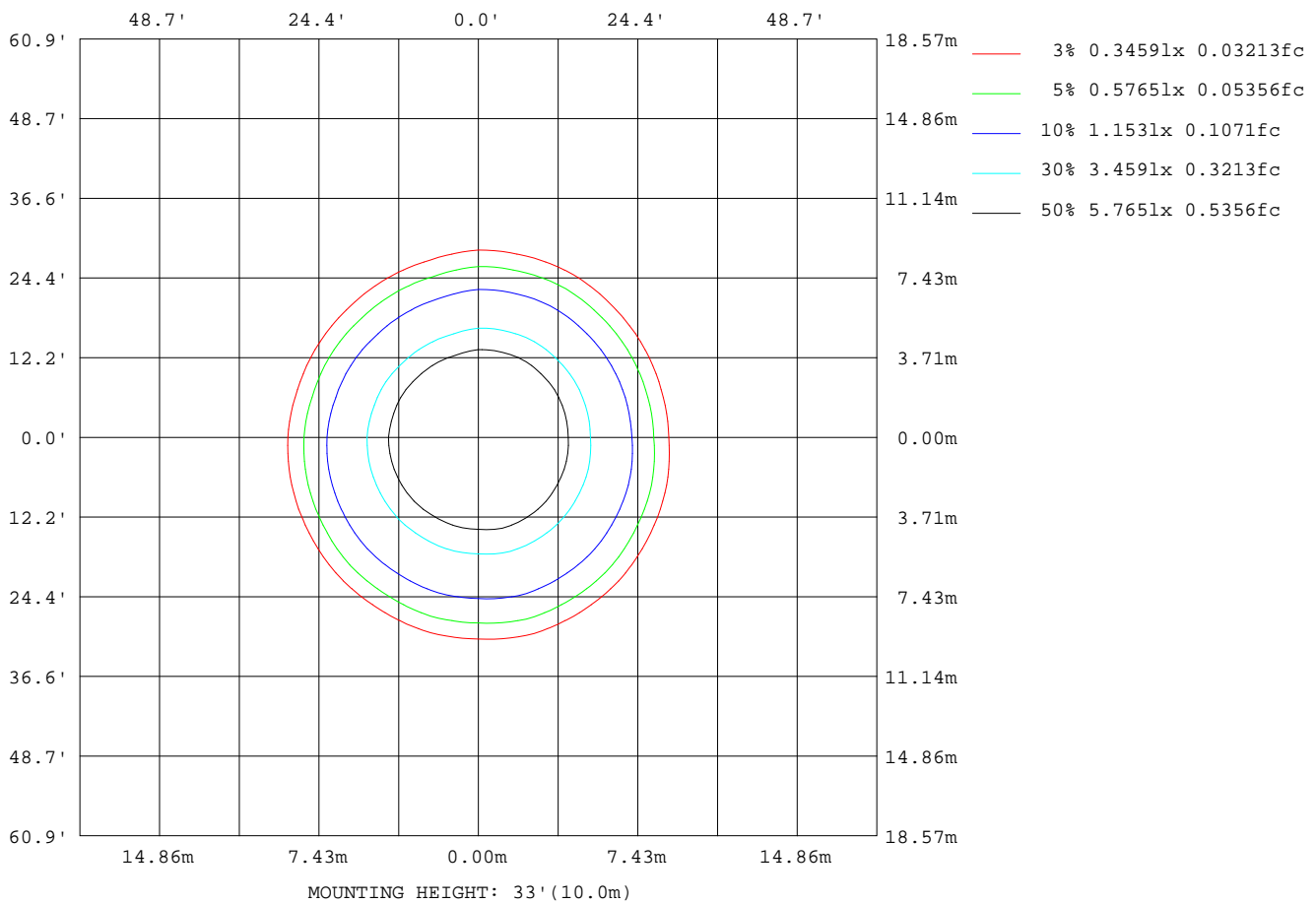
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-12

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

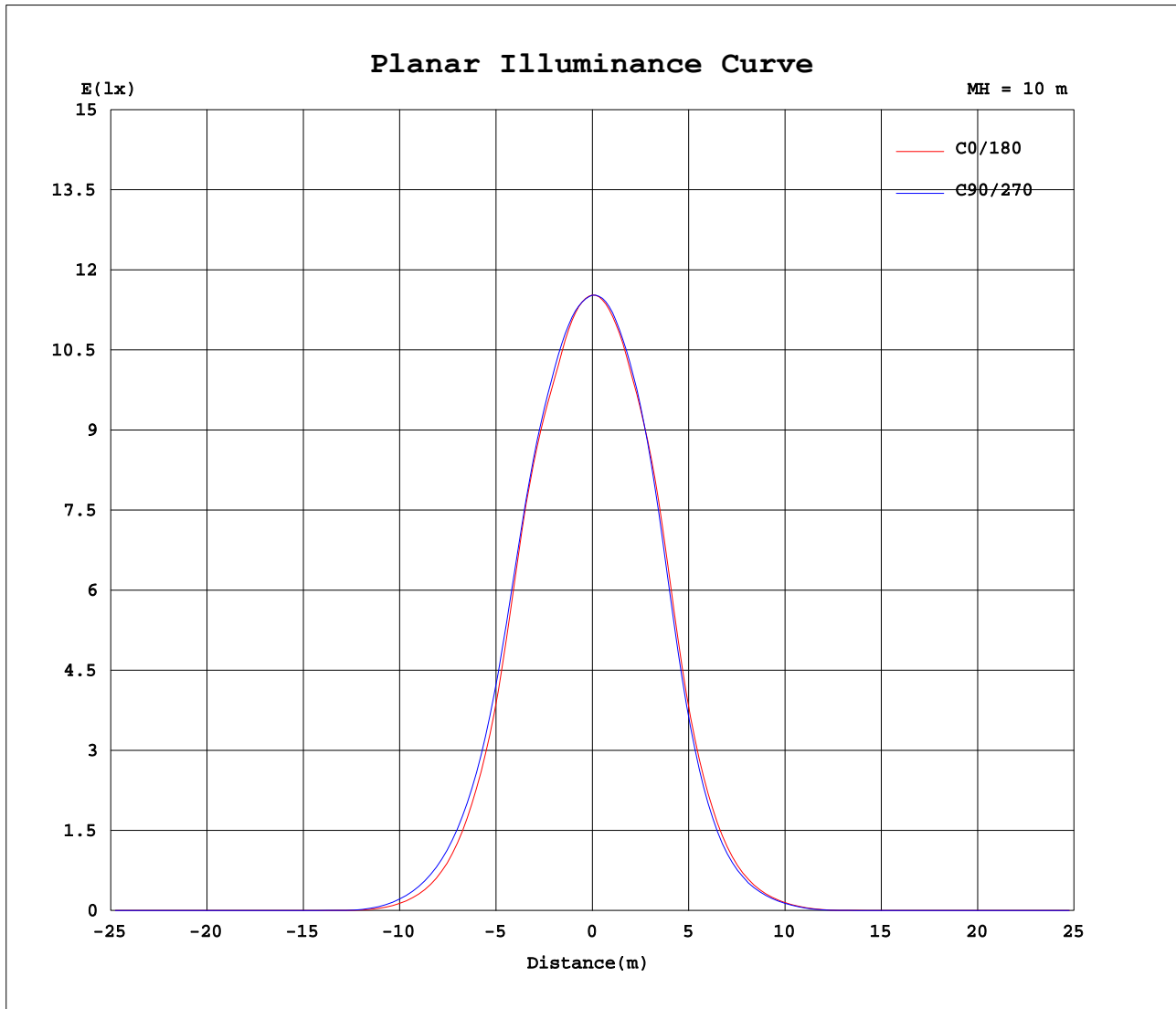
| | | |
|---|---------------------------|-------------|
| Test:U:220.8V I:0.0712A P:14.36W PF:0.9132 Lamp Flux:852.582x1 lm | | |
| NAME: S100R1-13W-930-W | TYPE:Downlight | SERIAL No.: |
| SPEC.:3000K | DIM.: ϕ 108mm*H126mm | |
| MFR.: NEKO LIGHTING AG | | |



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Test Speed: HIGH
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 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



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Test Speed: HIGH
Temperature: 25.3DEG
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Test Date: 2017-05-12

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γ Interval: 1.0DEG
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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 | 1153 | 1153 | 1153 | 1154 | 1154 | 1154 | 1153 | 1153 | 1152 | 1151 |
| 3.0 | 1145 | 1145 | 1145 | 1146 | 1147 | 1147 | 1145 | 1144 | 1144 | 1144 |
| 6.0 | 1124 | 1127 | 1127 | 1132 | 1133 | 1134 | 1130 | 1129 | 1127 | 1126 |
| 9.0 | 1086 | 1092 | 1096 | 1103 | 1107 | 1110 | 1102 | 1102 | 1098 | 1098 |
| 12.0 | 1042 | 1047 | 1052 | 1061 | 1066 | 1071 | 1061 | 1060 | 1055 | 1055 |
| 15.0 | 998.0 | 1003 | 1006 | 1017 | 1020 | 1023 | 1012 | 1007 | 1002 | 1004 |
| 18.0 | 929.2 | 939.1 | 942.7 | 951.6 | 955.3 | 957.8 | 939.9 | 935.3 | 929.3 | 931.4 |
| 21.0 | 818.1 | 835.0 | 840.8 | 856.3 | 859.2 | 863.2 | 836.7 | 831.5 | 820.7 | 825.0 |
| 24.0 | 669.4 | 692.1 | 704.7 | 722.4 | 727.7 | 734.5 | 706.7 | 699.9 | 685.1 | 684.2 |
| 27.0 | 521.3 | 545.3 | 561.7 | 578.9 | 589.2 | 597.8 | 572.3 | 566.0 | 548.9 | 544.4 |
| 30.0 | 400.0 | 425.5 | 439.4 | 456.7 | 462.9 | 470.1 | 448.5 | 444.0 | 428.1 | 423.0 |
| 33.0 | 293.6 | 317.5 | 331.2 | 348.1 | 355.6 | 360.9 | 341.7 | 337.4 | 322.7 | 316.2 |
| 36.0 | 201.3 | 223.8 | 236.9 | 252.7 | 258.1 | 265.9 | 249.6 | 245.3 | 231.9 | 225.8 |
| 39.0 | 129.4 | 146.3 | 158.3 | 172.7 | 178.7 | 184.7 | 173.0 | 169.7 | 157.9 | 152.6 |
| 42.0 | 75.75 | 87.10 | 96.30 | 107.8 | 113.9 | 118.9 | 110.7 | 108.2 | 99.24 | 94.91 |
| 45.0 | 38.04 | 44.78 | 51.01 | 58.31 | 62.53 | 66.95 | 61.61 | 59.97 | 54.75 | 51.94 |
| 48.0 | 13.97 | 17.03 | 19.27 | 23.42 | 25.46 | 28.06 | 24.25 | 24.54 | 21.81 | 21.44 |
| 51.0 | 2.316 | 2.984 | 3.387 | 4.441 | 4.918 | 5.800 | 4.271 | 4.513 | 3.836 | 4.110 |
| 54.0 | 1.206 | 1.325 | 1.383 | 1.493 | 1.553 | 1.624 | 1.512 | 1.543 | 1.477 | 1.523 |
| 57.0 | 0.6074 | 0.6657 | 0.6841 | 0.7508 | 0.7784 | 0.8141 | 0.7389 | 0.7465 | 0.7148 | 0.7443 |
| 60.0 | 0.3047 | 0.3229 | 0.3267 | 0.3512 | 0.3619 | 0.3817 | 0.3487 | 0.3556 | 0.3421 | 0.3468 |
| 63.0 | 0.1339 | 0.1264 | 0.1362 | 0.1329 | 0.1493 | 0.1395 | 0.1384 | 0.1285 | 0.1362 | 0.1198 |
| 66.0 | 0.0853 | 0.0656 | 0.0744 | 0.0568 | 0.0723 | 0.0525 | 0.0722 | 0.0546 | 0.0700 | 0.0459 |
| 69.0 | 0.0700 | 0.0524 | 0.0635 | 0.0459 | 0.0678 | 0.0416 | 0.0613 | 0.0415 | 0.0656 | 0.0372 |
| 72.0 | 0.0504 | 0.0350 | 0.0526 | 0.0350 | 0.0526 | 0.0350 | 0.0525 | 0.0350 | 0.0525 | 0.0372 |
| 75.0 | 0.0394 | 0.0350 | 0.0372 | 0.0328 | 0.0372 | 0.0328 | 0.0415 | 0.0350 | 0.0394 | 0.0372 |
| 78.0 | 0.0394 | 0.0350 | 0.0350 | 0.0328 | 0.0372 | 0.0328 | 0.0372 | 0.0350 | 0.0372 | 0.0372 |
| 81.0 | 0.0350 | 0.0350 | 0.0350 | 0.0328 | 0.0350 | 0.0350 | 0.0350 | 0.0350 | 0.0372 | 0.0372 |
| 84.0 | 0.0350 | 0.0372 | 0.0350 | 0.0350 | 0.0350 | 0.0350 | 0.0350 | 0.0372 | 0.0372 | 0.0372 |
| 87.0 | 0.0350 | 0.0372 | 0.0350 | 0.0350 | 0.0350 | 0.0372 | 0.0350 | 0.0372 | 0.0372 | 0.0372 |
| 90.0 | 0.0350 | 0.0372 | 0.0350 | 0.0350 | 0.0350 | 0.0372 | 0.0350 | 0.0372 | 0.0372 | 0.0372 |

| G/C | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1151 | 1150 | 1153 | 1153 | 1154 | 1154 | 1154 | 1153 | 1153 | 1153 |
| 3.0 | 1143 | 1144 | 1149 | 1149 | 1150 | 1150 | 1151 | 1150 | 1151 | 1151 |
| 6.0 | 1126 | 1128 | 1132 | 1132 | 1134 | 1134 | 1134 | 1136 | 1138 | 1136 |
| 9.0 | 1096 | 1098 | 1103 | 1100 | 1102 | 1100 | 1102 | 1103 | 1110 | 1107 |
| 12.0 | 1054 | 1055 | 1060 | 1058 | 1061 | 1059 | 1060 | 1061 | 1071 | 1072 |
| 15.0 | 1004 | 1007 | 1012 | 1007 | 1004 | 995.9 | 995.6 | 996.1 | 1014 | 1014 |
| 18.0 | 933.5 | 937.3 | 941.9 | 926.0 | 918.4 | 901.2 | 898.1 | 894.6 | 922.5 | 929.4 |
| 21.0 | 822.7 | 821.0 | 821.1 | 795.1 | 785.2 | 760.0 | 753.8 | 752.1 | 790.8 | 798.1 |
| 24.0 | 673.1 | 669.4 | 665.5 | 636.1 | 620.5 | 596.5 | 592.6 | 593.4 | 635.0 | 645.3 |
| 27.0 | 529.7 | 520.0 | 511.9 | 484.2 | 471.5 | 448.7 | 446.4 | 449.7 | 485.4 | 493.6 |
| 30.0 | 408.8 | 397.1 | 386.0 | 359.6 | 345.4 | 326.0 | 324.0 | 326.8 | 356.8 | 364.3 |
| 33.0 | 301.4 | 289.2 | 277.3 | 253.6 | 241.2 | 225.7 | 224.6 | 226.5 | 250.6 | 256.2 |
| 36.0 | 211.7 | 200.8 | 189.9 | 170.8 | 161.8 | 151.1 | 151.0 | 151.9 | 169.6 | 172.5 |
| 39.0 | 140.9 | 133.4 | 125.1 | 111.2 | 105.0 | 98.96 | 98.53 | 99.80 | 110.9 | 112.9 |
| 42.0 | 87.25 | 81.87 | 76.63 | 68.35 | 64.68 | 61.12 | 61.12 | 61.74 | 69.32 | 69.71 |
| 45.0 | 47.23 | 44.94 | 42.28 | 37.23 | 35.47 | 32.79 | 32.99 | 32.91 | 38.04 | 37.47 |
| 48.0 | 19.63 | 19.17 | 18.17 | 15.69 | 14.80 | 13.17 | 12.91 | 12.50 | 15.21 | 14.60 |
| 51.0 | 3.903 | 4.108 | 4.003 | 3.212 | 3.012 | 2.573 | 2.462 | 2.263 | 2.643 | 2.475 |
| 54.0 | 1.497 | 1.539 | 1.553 | 1.442 | 1.385 | 1.261 | 1.239 | 1.173 | 1.274 | 1.247 |
| 57.0 | 0.7258 | 0.7464 | 0.7439 | 0.6946 | 0.6981 | 0.6529 | 0.6546 | 0.6221 | 0.6698 | 0.6484 |
| 60.0 | 0.3465 | 0.3490 | 0.3553 | 0.3418 | 0.3466 | 0.3308 | 0.3292 | 0.3176 | 0.3423 | 0.3395 |
| 63.0 | 0.1384 | 0.1264 | 0.1307 | 0.1426 | 0.1351 | 0.1469 | 0.1330 | 0.1425 | 0.1482 | 0.1622 |
| 66.0 | 0.0722 | 0.0524 | 0.0655 | 0.0853 | 0.0743 | 0.1028 | 0.0896 | 0.1050 | 0.0896 | 0.1159 |
| 69.0 | 0.0635 | 0.0459 | 0.0502 | 0.0744 | 0.0634 | 0.0919 | 0.0743 | 0.0919 | 0.0743 | 0.1028 |
| 72.0 | 0.0525 | 0.0372 | 0.0371 | 0.0656 | 0.0523 | 0.0744 | 0.0501 | 0.0657 | 0.0479 | 0.0701 |
| 75.0 | 0.0438 | 0.0372 | 0.0306 | 0.0437 | 0.0350 | 0.0481 | 0.0306 | 0.0459 | 0.0284 | 0.0437 |
| 78.0 | 0.0394 | 0.0372 | 0.0262 | 0.0372 | 0.0306 | 0.0415 | 0.0306 | 0.0394 | 0.0262 | 0.0394 |
| 81.0 | 0.0394 | 0.0372 | 0.0241 | 0.0285 | 0.0241 | 0.0372 | 0.0241 | 0.0350 | 0.0241 | 0.0350 |
| 84.0 | 0.0394 | 0.0394 | 0.0241 | 0.0284 | 0.0241 | 0.0350 | 0.0241 | 0.0306 | 0.0241 | 0.0328 |
| 87.0 | 0.0394 | 0.0394 | 0.0241 | 0.0284 | 0.0241 | 0.0284 | 0.0241 | 0.0284 | 0.0241 | 0.0284 |
| 90.0 | 0.0394 | 0.0394 | 0.0241 | 0.0241 | 0.0241 | 0.0241 | 0.0241 | 0.0241 | 0.0241 | 0.0241 |

| G/C | 300.0 | 315.0 | 330.0 | 345.0 |
|------|-------|-------|-------|-------|
| 0.0 | 1152 | 1151 | 1151 | 1150 |
| 3.0 | 1149 | 1146 | 1145 | 1143 |
| 6.0 | 1134 | 1130 | 1128 | 1124 |
| 9.0 | 1105 | 1097 | 1093 | 1086 |
| 12.0 | 1069 | 1060 | 1053 | 1044 |
| 15.0 | 1019 | 1014 | 1009 | 1001 |
| 18.0 | 938.9 | 937.0 | 938.9 | 932.3 |
| 21.0 | 815.4 | 813.7 | 820.3 | 819.1 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
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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 | 660.7 | 658.2 | 667.3 | 667.5 |
| 27.0 | 508.4 | 506.7 | 514.8 | 516.6 |
| 30.0 | 376.9 | 377.6 | 386.3 | 392.4 |
| 33.0 | 267.1 | 267.7 | 276.9 | 283.8 |
| 36.0 | 180.7 | 180.1 | 186.2 | 192.7 |
| 39.0 | 116.9 | 115.7 | 118.8 | 122.8 |
| 42.0 | 71.50 | 69.45 | 70.72 | 71.96 |
| 45.0 | 38.39 | 35.90 | 36.20 | 36.00 |
| 48.0 | 15.03 | 13.43 | 13.34 | 13.04 |
| 51.0 | 2.571 | 2.267 | 2.241 | 2.127 |
| 54.0 | 1.272 | 1.188 | 1.182 | 1.157 |
| 57.0 | 0.6633 | 0.6178 | 0.6087 | 0.5828 |
| 60.0 | 0.3402 | 0.3198 | 0.3096 | 0.2935 |
| 63.0 | 0.1504 | 0.1513 | 0.1286 | 0.1316 |
| 66.0 | 0.0983 | 0.1072 | 0.0787 | 0.0897 |
| 69.0 | 0.0830 | 0.0941 | 0.0633 | 0.0744 |
| 72.0 | 0.0458 | 0.0548 | 0.0327 | 0.0526 |
| 75.0 | 0.0349 | 0.0394 | 0.0305 | 0.0394 |
| 78.0 | 0.0284 | 0.0372 | 0.0219 | 0.0350 |
| 81.0 | 0.0241 | 0.0350 | 0.0219 | 0.0328 |
| 84.0 | 0.0241 | 0.0306 | 0.0219 | 0.0306 |
| 87.0 | 0.0241 | 0.0284 | 0.0219 | 0.0284 |
| 90.0 | 0.0241 | 0.0241 | 0.0219 | 0.0241 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
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γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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Test Distance: 5.850m [K=1.0000]
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