
LED Downlight FUSION Series LE-FF3-FS1-9W-940-40D
Specular



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 10.27 W | |
| SHR Nominal: | 0.50 | Calculated using the TM5 |
| SHR Maximum: | 0.60 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-05

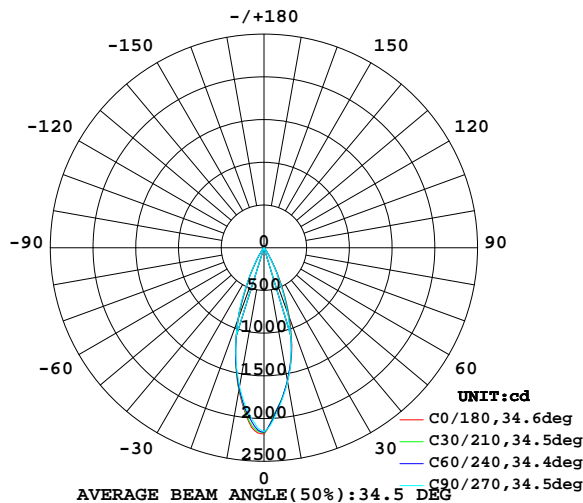
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

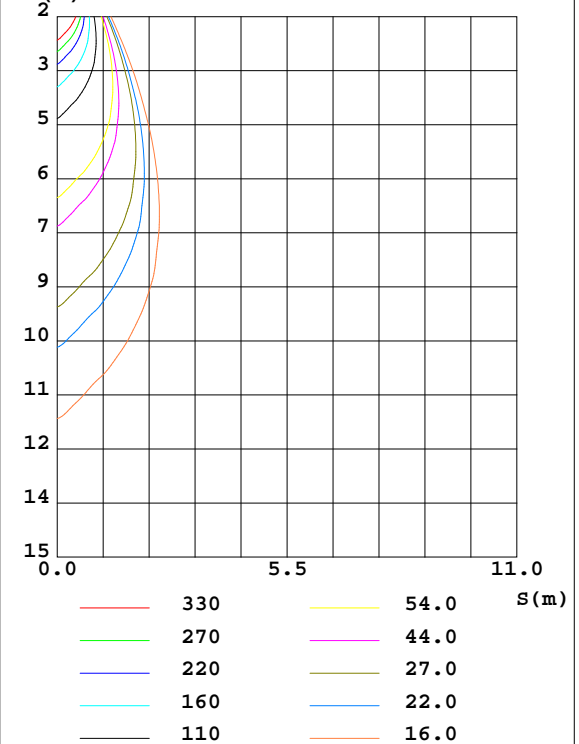
| | | |
|---|--------------------------|-------------|
| Test:U:220.8V I:0.0542A P:10.27W PF:0.8590 Lamp Flux:817.11lx1 lm | | |
| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 79.55 lm/W | | | |
|------------------|------------|----------------------------------|--------|-------------------|----------|
| MODEL | CREE-4000K | I _{max} (cd) | 2178 | S/MH(C0/180) | 0.57 |
| NOMINAL POWER(W) | 11.0 | LOR(%) | 100.0 | S/MH(C90/270) | 0.57 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 817.11 | η UP,DN(C0-180) | 0.0,49.0 |
| NOMINAL FLUX(lm) | 817.111 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,51.0 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE(V) | 220 | η down(%) | 100.0 | CIBSE SHR MAX | 0.60 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



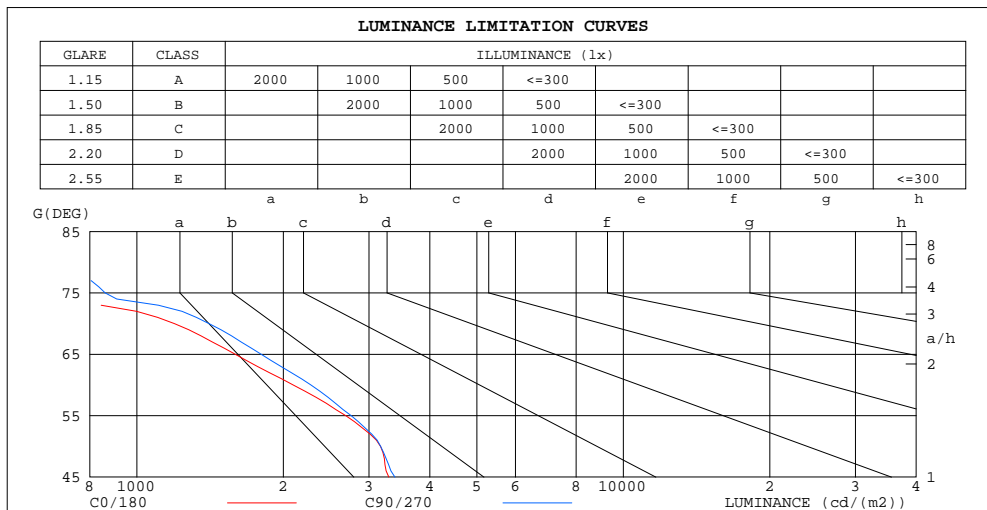
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-05

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 | Φ lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------------|
| 10 | 1588 | 1581 | 1593 | 1634 | 1693 | 1667 | 1650 | 1600 | 0- 10 | 175.1 | 175.1 | 21.4,21.4 |
| 20 | 871.3 | 858.5 | 813.6 | 818.4 | 874.9 | 878.9 | 889.2 | 879.3 | 10- 20 | 343.0 | 518.1 | 63.4,63.4 |
| 30 | 201.5 | 196.3 | 182.2 | 183.7 | 195.9 | 199.4 | 210.6 | 205.3 | 20- 30 | 217.4 | 735.6 | 90,90 |
| 40 | 26.52 | 25.80 | 25.47 | 27.40 | 29.28 | 28.63 | 28.89 | 28.27 | 30- 40 | 49.64 | 785.2 | 96.1,96.1 |
| 50 | 13.93 | 13.61 | 13.94 | 15.02 | 15.69 | 15.23 | 14.51 | 13.96 | 40- 50 | 13.90 | 799.1 | 97.8,97.8 |
| 60 | 7.165 | 7.291 | 7.794 | 8.800 | 9.735 | 9.161 | 8.504 | 7.561 | 50- 60 | 10.14 | 809.2 | 99,99 |
| 70 | 2.796 | 2.925 | 3.292 | 3.825 | 4.134 | 3.808 | 3.396 | 2.897 | 60- 70 | 5.488 | 814.7 | 99.7,99.7 |
| 80 | 0.7445 | 0.7862 | 0.8649 | 1.013 | 1.037 | 1.024 | 0.9323 | 0.8120 | 70- 80 | 1.947 | 816.7 | 99.9,99.9 |
| 90 | 0.0394 | 0.0394 | 0.0415 | 0.0415 | 0.0481 | 0.0525 | 0.0262 | 0.0328 | 80- 90 | 0.4440 | 817.1 | 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(°) | C0/180 | C90/270 |
| 85 | 438 | 585 |
| 80 | 627 | 728 |
| 75 | 764 | 861 |
| 70 | 1195 | 1407 |
| 65 | 1592 | 1800 |
| 60 | 2095 | 2279 |
| 55 | 2687 | 2758 |
| 50 | 3168 | 3172 |
| 45 | 3296 | 3393 |

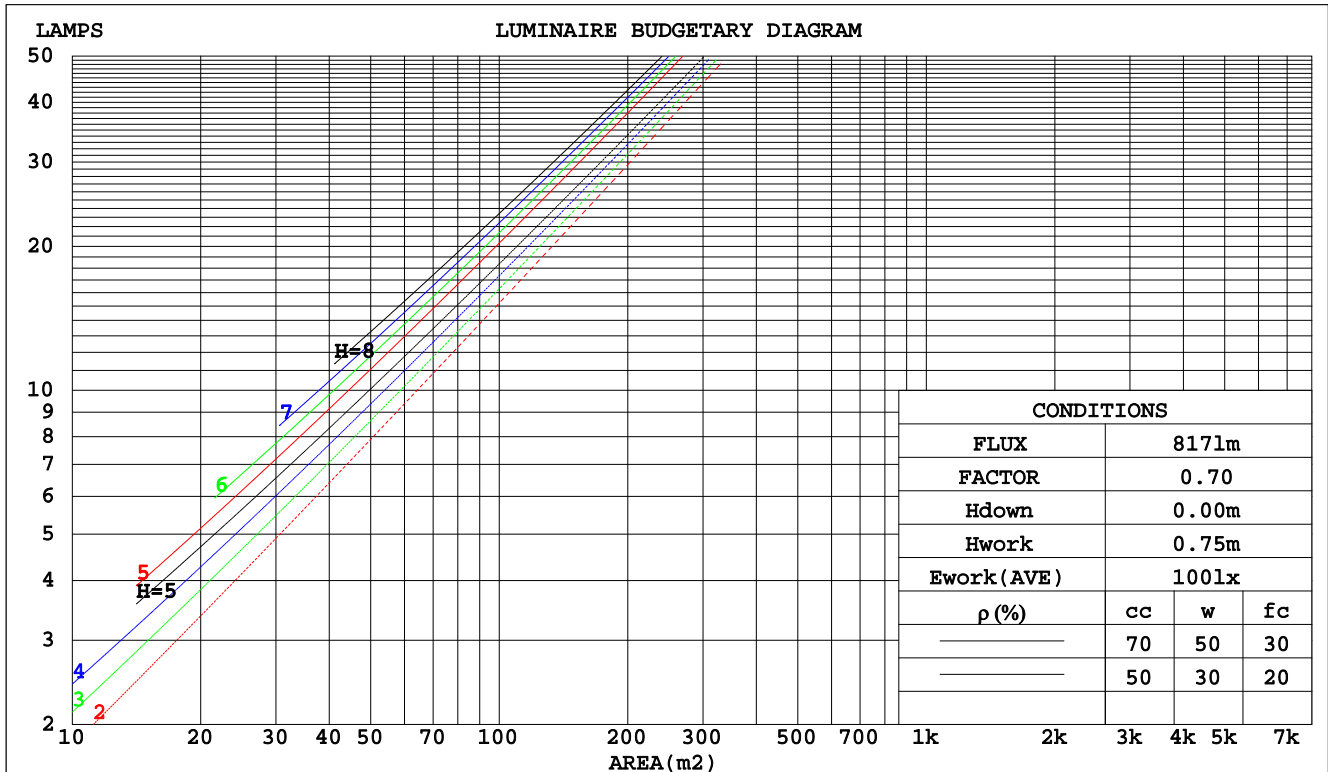
C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-05

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------------------------|-------------|
| Test:U:220.8V I:0.0542A P:10.27W PF:0.8590 Lamp Flux:817.11lx1 lm | | |
| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

| 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 | 1.12 | 1.10 | 1.08 | 1.10 | 1.08 | 1.06 | 1.06 | 1.04 | 1.03 | 1.02 | 1.01 | .00 | .99 | .98 | .97 | .95 |
| 2.0 | 1.06 | 1.02 | .99 | 1.04 | 1.01 | .98 | 1.01 | .98 | .96 | .98 | .96 | .94 | .95 | .93 | .92 | .90 |
| 3.0 | .00 | .96 | .92 | .99 | .95 | .92 | .96 | .93 | .90 | .94 | .91 | .89 | .92 | .89 | .88 | .86 |
| 4.0 | .95 | .90 | .87 | .94 | .90 | .86 | .92 | .88 | .85 | .90 | .87 | .84 | .88 | .86 | .83 | .82 |
| 5.0 | .91 | .86 | .82 | .90 | .85 | .82 | .88 | .84 | .81 | .86 | .83 | .80 | .85 | .82 | .80 | .78 |
| 6.0 | .86 | .82 | .78 | .86 | .81 | .78 | .84 | .80 | .77 | .83 | .79 | .77 | .82 | .79 | .76 | .75 |
| 7.0 | .83 | .78 | .74 | .82 | .78 | .74 | .81 | .77 | .74 | .80 | .76 | .73 | .79 | .76 | .73 | .72 |
| 8.0 | .79 | .74 | .71 | .79 | .74 | .71 | .78 | .74 | .71 | .77 | .73 | .70 | .76 | .73 | .70 | .69 |
| 9.0 | .76 | .71 | .68 | .76 | .71 | .68 | .75 | .71 | .68 | .74 | .70 | .68 | .73 | .70 | .67 | .66 |
| 10.0 | .73 | .69 | .65 | .73 | .68 | .65 | .72 | .68 | .65 | .72 | .68 | .65 | .71 | .67 | .65 | .64 |



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 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-05

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

| | | |
|---|--------------------------|-------------|
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| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

| 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 | .156 | .089 | .028 | .149 | .085 | .027 | .137 | .079 | .025 | .125 | .072 | .023 | .115 | .067 | .021 | |
| 2.0 | .147 | .080 | .025 | .141 | .078 | .024 | .131 | .073 | .023 | .121 | .068 | .021 | .112 | .063 | .020 | |
| 3.0 | .138 | .073 | .022 | .133 | .071 | .021 | .124 | .067 | .020 | .116 | .064 | .020 | .109 | .060 | .019 | |
| 4.0 | .130 | .068 | .020 | .126 | .066 | .020 | .119 | .063 | .019 | .112 | .060 | .018 | .105 | .057 | .017 | |
| 5.0 | .123 | .063 | .018 | .120 | .061 | .018 | .113 | .059 | .017 | .107 | .057 | .017 | .102 | .054 | .016 | |
| 6.0 | .117 | .059 | .017 | .114 | .058 | .017 | .108 | .056 | .016 | .103 | .054 | .016 | .098 | .052 | .015 | |
| 7.0 | .111 | .055 | .016 | .109 | .054 | .015 | .104 | .053 | .015 | .099 | .051 | .015 | .095 | .049 | .015 | |
| 8.0 | .106 | .052 | .015 | .104 | .051 | .014 | .100 | .050 | .014 | .096 | .049 | .014 | .092 | .047 | .014 | |
| 9.0 | .102 | .049 | .014 | .100 | .049 | .014 | .096 | .048 | .013 | .092 | .046 | .013 | .089 | .045 | .013 | |
| 10.0 | .098 | .047 | .013 | .096 | .046 | .013 | .093 | .045 | .013 | .089 | .044 | .013 | .086 | .043 | .012 | |

| 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 | .170 | .157 | .147 | .145 | .135 | .126 | .099 | .093 | .087 | .057 | .054 | .051 | .018 | .017 | .016 | |
| 2.0 | .153 | .133 | .116 | .131 | .114 | .100 | .090 | .079 | .070 | .052 | .046 | .041 | .017 | .015 | .013 | |
| 3.0 | .139 | .113 | .093 | .119 | .098 | .081 | .082 | .068 | .057 | .047 | .040 | .033 | .015 | .013 | .011 | |
| 4.0 | .127 | .098 | .076 | .109 | .085 | .066 | .075 | .059 | .047 | .044 | .035 | .028 | .014 | .011 | .009 | |
| 5.0 | .118 | .086 | .063 | .101 | .075 | .055 | .070 | .052 | .039 | .040 | .031 | .023 | .013 | .010 | .008 | |
| 6.0 | .110 | .077 | .053 | .094 | .066 | .046 | .065 | .046 | .033 | .038 | .027 | .019 | .012 | .009 | .006 | |
| 7.0 | .102 | .069 | .045 | .088 | .060 | .039 | .061 | .042 | .028 | .035 | .025 | .017 | .011 | .008 | .005 | |
| 8.0 | .096 | .062 | .039 | .083 | .054 | .034 | .057 | .038 | .024 | .033 | .022 | .014 | .011 | .007 | .005 | |
| 9.0 | .091 | .057 | .034 | .078 | .049 | .029 | .054 | .035 | .021 | .032 | .020 | .012 | .010 | .007 | .004 | |
| 10.0 | .086 | .052 | .030 | .074 | .045 | .026 | .052 | .032 | .018 | .030 | .019 | .011 | .010 | .006 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-06-05

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:0.0542A P:10.27W PF:0.8590 Lamp Flux:817.11lx1 lm | | | | | | | | | | |
| NAME: FF3-FS1-9W-940-40D Specular | | | | | TYPE:Downlight | | | SERIAL No.: | | |
| SPEC.:4000K | | | | | DIM.: L153mm*W45mm*H60mm | | | | | |
| MFR.: | | | | | | | | | | |
| 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 | 9.5 | 10.2 | 9.7 | 10.4 | 10.6 | 9.5 | 10.3 | 9.8 | 10.5 | 10.6 |
| 3H | 9.7 | 10.4 | 9.9 | 10.6 | 10.8 | 9.8 | 10.5 | 10.1 | 10.7 | 10.9 |
| 4H | 9.7 | 10.3 | 9.9 | 10.5 | 10.8 | 9.8 | 10.5 | 10.1 | 10.7 | 10.9 |
| 6H | 9.6 | 10.3 | 9.9 | 10.5 | 10.7 | 9.8 | 10.5 | 10.1 | 10.7 | 10.9 |
| 8H | 9.6 | 10.2 | 9.9 | 10.5 | 10.7 | 9.8 | 10.4 | 10.1 | 10.7 | 10.9 |
| 12H | 9.6 | 10.2 | 9.9 | 10.4 | 10.7 | 9.8 | 10.4 | 10.1 | 10.6 | 10.9 |
| 4H 2H | 9.5 | 10.2 | 9.8 | 10.4 | 10.6 | 9.6 | 10.3 | 9.9 | 10.5 | 10.7 |
| 3H | 9.8 | 10.4 | 10.1 | 10.6 | 10.9 | 9.9 | 10.5 | 10.2 | 10.8 | 11.1 |
| 4H | 9.8 | 10.3 | 10.1 | 10.6 | 10.9 | 10.0 | 10.5 | 10.3 | 10.8 | 11.1 |
| 6H | 9.8 | 10.3 | 10.1 | 10.6 | 10.9 | 10.0 | 10.5 | 10.3 | 10.8 | 11.1 |
| 8H | 9.8 | 10.2 | 10.1 | 10.6 | 10.9 | 10.0 | 10.4 | 10.4 | 10.8 | 11.1 |
| 12H | 9.7 | 10.1 | 10.1 | 10.5 | 10.9 | 9.9 | 10.4 | 10.3 | 10.7 | 11.1 |
| 8H 4H | 9.7 | 10.2 | 10.1 | 10.5 | 10.9 | 9.9 | 10.3 | 10.3 | 10.7 | 11.1 |
| 6H | 9.7 | 10.1 | 10.2 | 10.5 | 10.9 | 9.9 | 10.3 | 10.3 | 10.7 | 11.1 |
| 8H | 9.7 | 10.0 | 10.2 | 10.5 | 10.9 | 9.9 | 10.3 | 10.4 | 10.7 | 11.1 |
| 12H | 9.7 | 10.0 | 10.2 | 10.4 | 10.9 | 9.9 | 10.2 | 10.4 | 10.6 | 11.1 |
| 12H 4H | 9.7 | 10.1 | 10.1 | 10.4 | 10.8 | 9.8 | 10.3 | 10.3 | 10.6 | 11.0 |
| 6H | 9.7 | 10.0 | 10.1 | 10.4 | 10.9 | 9.9 | 10.2 | 10.3 | 10.6 | 11.1 |
| 8H | 9.7 | 10.0 | 10.2 | 10.4 | 10.9 | 9.9 | 10.2 | 10.4 | 10.6 | 11.1 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 1.5 / - 1.4 | | | | | + 1.4 / - 1.2 | | | | |
| 1.5H | + 2.4 / - 1.1 | | | | | + 2.2 / - 0.9 | | | | |
| 2.0H | + 1.2 / - 1.4 | | | | | + 1.1 / - 1.3 | | | | |

CIE Pub.117 Corrected 817.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.7)

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
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|--------------------------|-------------|
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| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

| 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 | 89 | 83 | 79 | 88 | 83 | 79 | 76 |
| 0.80 | 96 | 91 | 87 | 96 | 90 | 87 | 94 | 90 | 87 | 83 |
| 1.00 | 100 | 95 | 92 | 100 | 95 | 91 | 98 | 94 | 91 | 87 |
| 1.25 | 104 | 99 | 96 | 103 | 99 | 95 | 101 | 97 | 95 | 91 |
| 1.50 | 107 | 102 | 99 | 105 | 101 | 98 | 103 | 100 | 97 | 93 |
| 2.00 | 109 | 105 | 102 | 108 | 104 | 101 | 105 | 102 | 100 | 95 |
| 2.50 | 111 | 107 | 104 | 109 | 106 | 103 | 106 | 103 | 101 | 96 |
| 3.00 | 112 | 109 | 106 | 110 | 107 | 105 | 107 | 105 | 103 | 97 |
| 4.00 | 114 | 111 | 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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| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

Conical surface Flux(90deg):

792.8 lm

%lum = 97.0%

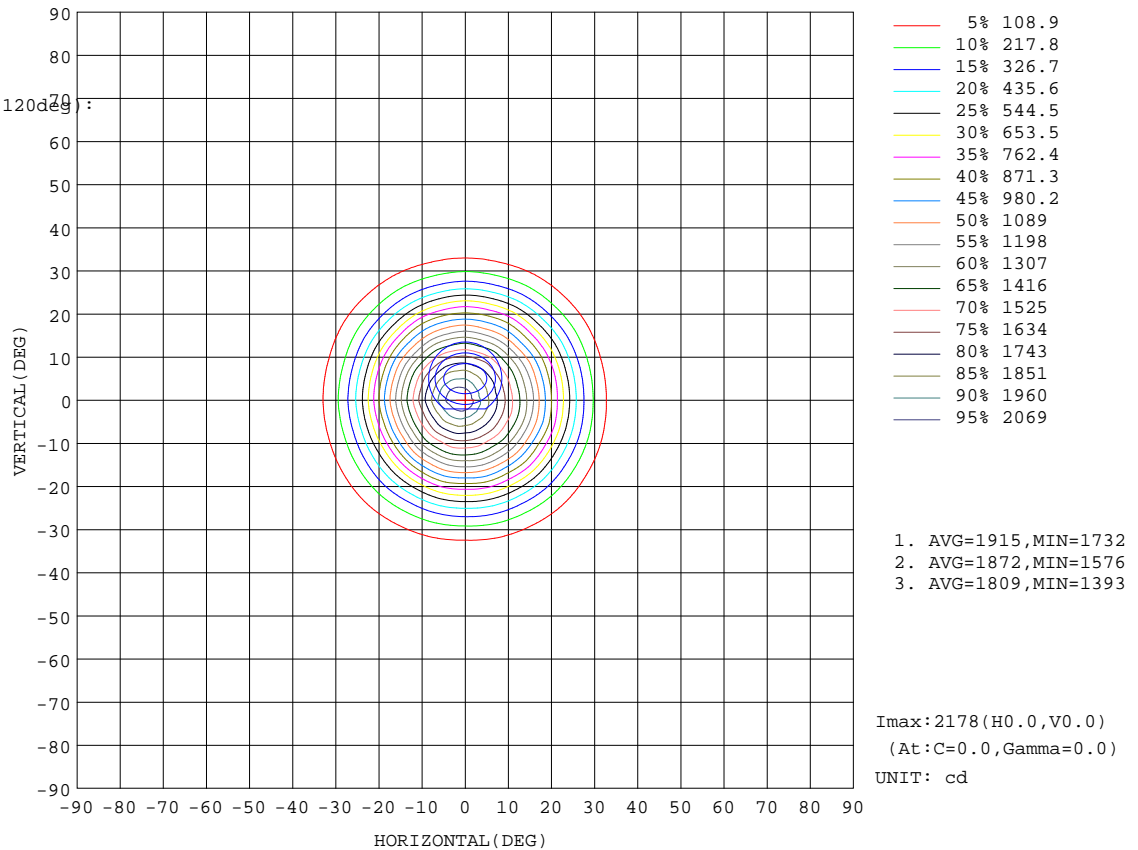
%lamp = 97.0%

Conical surface Flux(120deg):

809.23 lm

%lum = 99.0%

%lamp = 99.0%

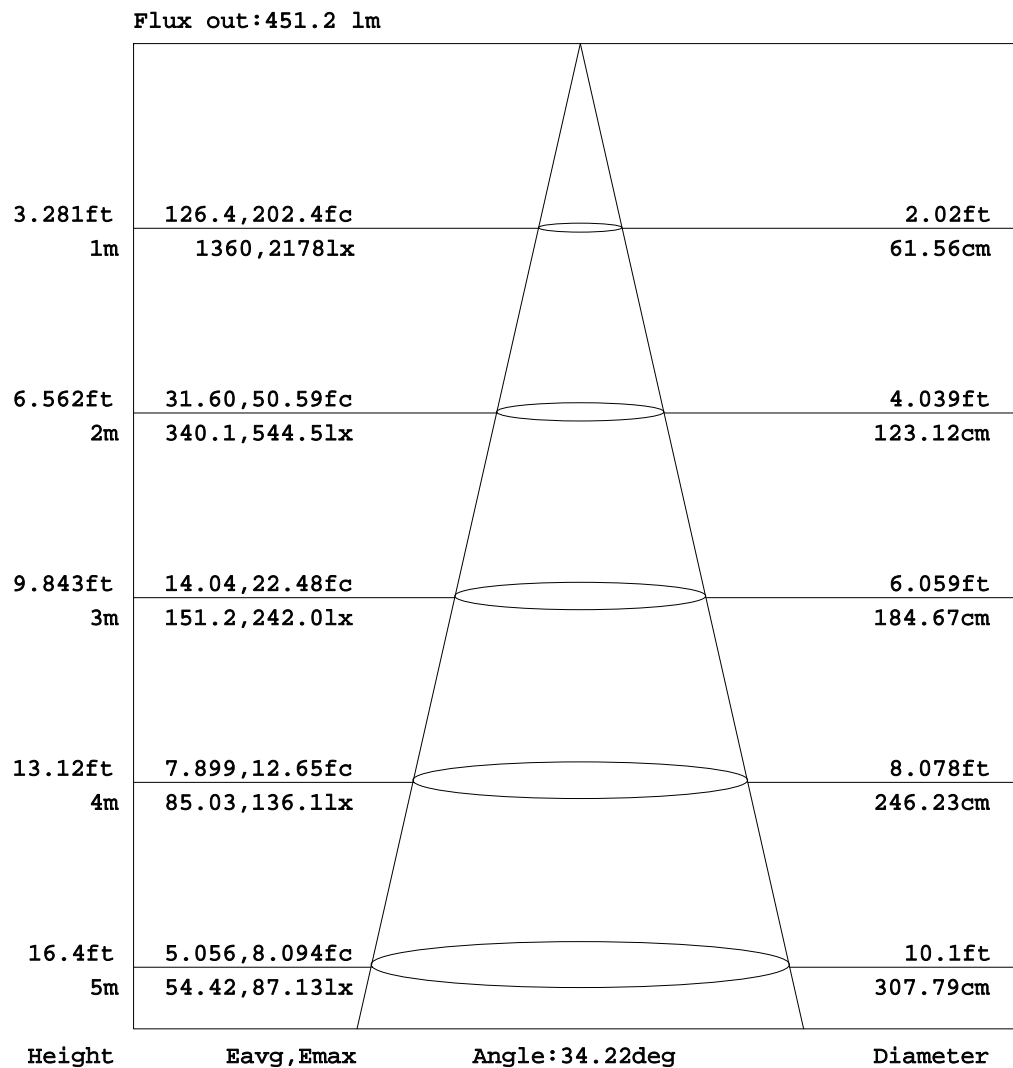


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AAI Figure

| | | |
|---|--------------------------|-------------|
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| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |



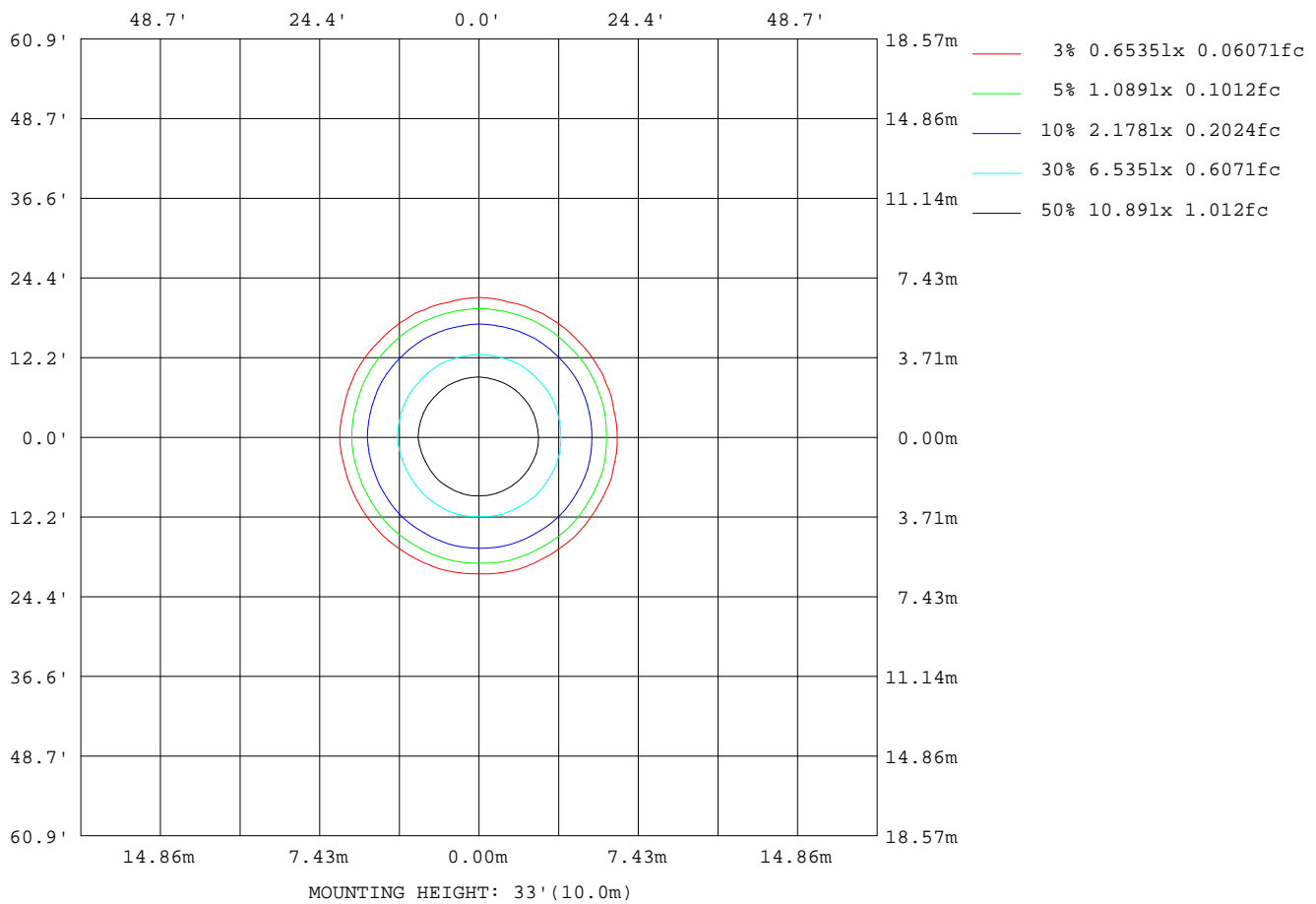
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-06-05

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

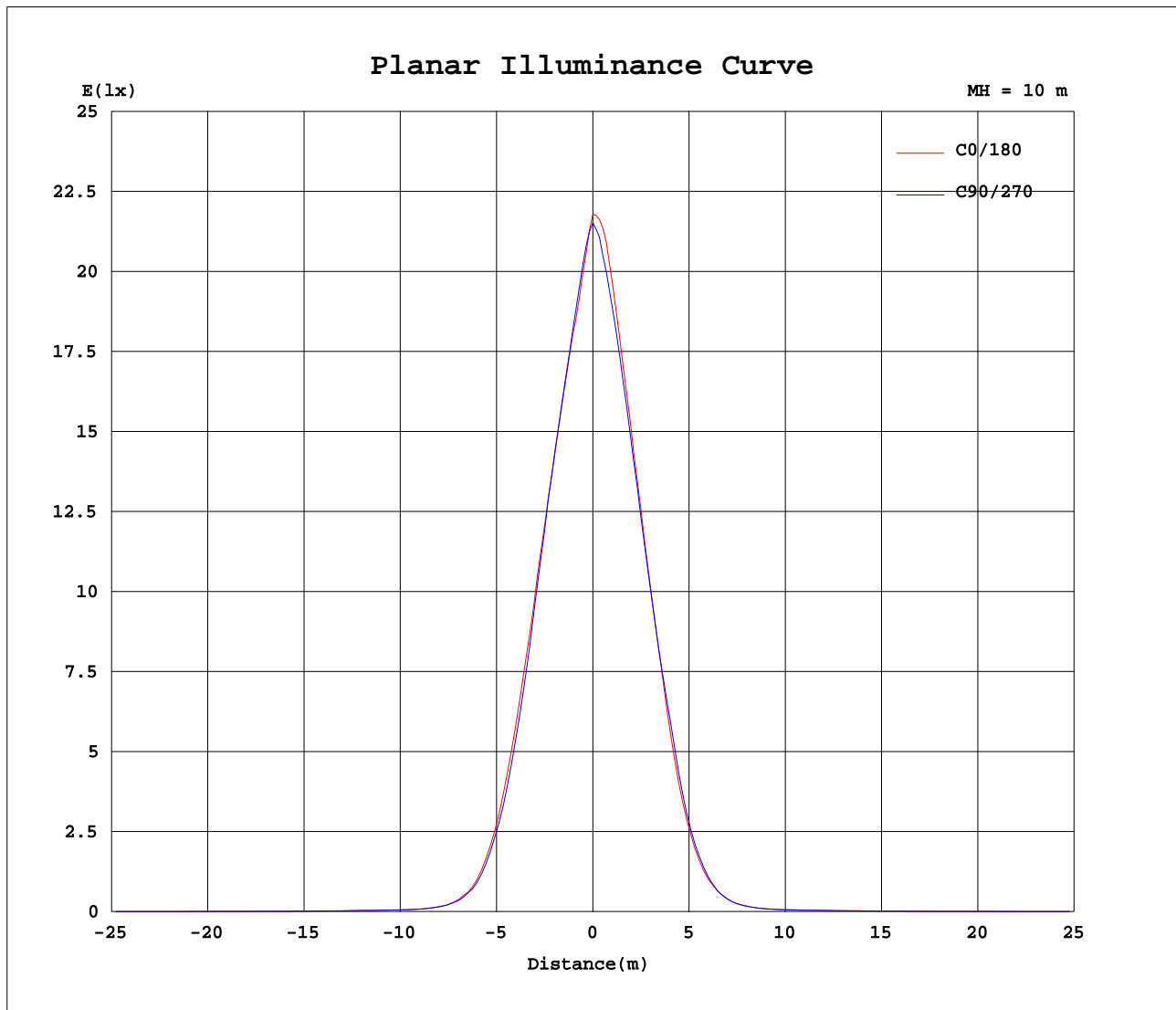
| | | |
|--|--------------------------|-------------|
| Test:U:220.8V I:0.0542A P:10.27W PF:0.8590 Lamp Flux:817.11lx 1m | | |
| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-05

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: 2017-06-05

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------------|-------------|
| Test:U:220.8V I:0.0542A P:10.27W PF:0.8590 Lamp Flux:817.11lx1 lm | | |
| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-05

```

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:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------------|-------------|
| Test:U:220.8V I:0.0542A P:10.27W PF:0.8590 Lamp Flux:817.11lx1 lm | | |
| NAME: FF3-FS1-9W-940-40D Specular | TYPE:Downlight | SERIAL No.: |
| SPEC.:4000K | DIM.: L153mm*W45mm*H60mm | |
| MFR.: | | |

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-05

```

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 | 2178 | 2172 | 2168 | 2164 | 2159 | 2156 | 2153 | 2150 | 2147 | 2143 |
| 3.0 | 1999 | 2000 | 1998 | 2003 | 2010 | 2026 | 2026 | 2058 | 2060 | 2079 |
| 6.0 | 1828 | 1822 | 1818 | 1829 | 1825 | 1836 | 1843 | 1870 | 1877 | 1905 |
| 9.0 | 1651 | 1647 | 1643 | 1651 | 1644 | 1652 | 1658 | 1674 | 1675 | 1697 |
| 12.0 | 1459 | 1470 | 1454 | 1460 | 1445 | 1464 | 1464 | 1480 | 1478 | 1477 |
| 15.0 | 1259 | 1257 | 1242 | 1240 | 1237 | 1240 | 1236 | 1240 | 1232 | 1246 |
| 18.0 | 1022 | 1026 | 1005 | 1001 | 990.2 | 1001 | 980.3 | 997.3 | 986.7 | 993.5 |
| 21.0 | 791.3 | 799.4 | 775.0 | 777.0 | 750.3 | 751.9 | 735.1 | 744.3 | 734.3 | 731.9 |
| 24.0 | 560.6 | 555.5 | 541.5 | 539.4 | 524.1 | 519.4 | 510.6 | 509.9 | 501.2 | 502.5 |
| 27.0 | 355.1 | 360.4 | 348.1 | 348.8 | 334.5 | 335.2 | 327.5 | 324.2 | 316.7 | 324.2 |
| 30.0 | 201.5 | 204.8 | 196.2 | 196.3 | 188.6 | 189.7 | 182.2 | 184.0 | 181.0 | 183.7 |
| 33.0 | 102.1 | 102.7 | 99.83 | 99.65 | 100.9 | 100.7 | 98.71 | 99.15 | 98.46 | 100.1 |
| 36.0 | 54.77 | 52.99 | 52.94 | 51.47 | 51.79 | 51.31 | 51.89 | 51.00 | 53.67 | 54.41 |
| 39.0 | 31.94 | 32.20 | 31.24 | 31.39 | 29.95 | 30.04 | 29.42 | 30.13 | 30.20 | 31.41 |
| 42.0 | 19.65 | 19.61 | 19.52 | 19.75 | 19.63 | 19.93 | 19.88 | 20.29 | 20.83 | 21.75 |
| 45.0 | 15.94 | 15.89 | 15.90 | 16.19 | 16.06 | 16.21 | 16.41 | 16.77 | 17.46 | 18.15 |
| 48.0 | 14.77 | 14.65 | 14.51 | 14.66 | 14.63 | 14.77 | 14.89 | 15.29 | 15.70 | 16.14 |
| 51.0 | 13.37 | 13.22 | 13.01 | 13.06 | 13.01 | 13.20 | 13.42 | 13.74 | 14.02 | 14.41 |
| 54.0 | 11.27 | 11.19 | 11.05 | 11.05 | 10.99 | 11.22 | 11.47 | 11.86 | 12.09 | 12.50 |
| 57.0 | 9.138 | 9.129 | 9.048 | 9.095 | 9.061 | 9.333 | 9.542 | 9.913 | 10.21 | 10.64 |
| 60.0 | 7.165 | 7.197 | 7.180 | 7.291 | 7.322 | 7.577 | 7.794 | 8.174 | 8.441 | 8.800 |
| 63.0 | 5.499 | 5.527 | 5.531 | 5.682 | 5.719 | 5.958 | 6.146 | 6.504 | 6.726 | 7.061 |
| 66.0 | 4.205 | 4.217 | 4.216 | 4.357 | 4.413 | 4.619 | 4.782 | 5.076 | 5.240 | 5.513 |
| 69.0 | 3.132 | 3.139 | 3.135 | 3.257 | 3.316 | 3.495 | 3.649 | 3.884 | 4.003 | 4.212 |
| 72.0 | 2.110 | 2.143 | 2.160 | 2.276 | 2.320 | 2.480 | 2.617 | 2.817 | 2.906 | 3.075 |
| 75.0 | 1.353 | 1.366 | 1.375 | 1.407 | 1.414 | 1.475 | 1.524 | 1.612 | 1.668 | 1.767 |
| 78.0 | 0.9700 | 0.9873 | 0.9875 | 1.014 | 1.020 | 1.083 | 1.108 | 1.177 | 1.222 | 1.278 |
| 81.0 | 0.6374 | 0.6529 | 0.6658 | 0.6769 | 0.6942 | 0.7272 | 0.7598 | 0.8102 | 0.8387 | 0.8932 |
| 84.0 | 0.3445 | 0.3709 | 0.3728 | 0.3884 | 0.3947 | 0.4233 | 0.4473 | 0.4910 | 0.5173 | 0.5566 |
| 87.0 | 0.1124 | 0.1066 | 0.1234 | 0.1219 | 0.1408 | 0.1524 | 0.1803 | 0.2071 | 0.2328 | 0.2617 |
| 90.0 | 0.0394 | 0.0394 | 0.0415 | 0.0394 | 0.0394 | 0.0372 | 0.0415 | 0.0394 | 0.0415 | 0.0415 |
| G/C | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 |
| 0.0 | 2141 | 2137 | 2172 | 2168 | 2164 | 2159 | 2156 | 2153 | 2150 | 2143 |
| 3.0 | 2085 | 2101 | 2143 | 2136 | 2122 | 2105 | 2094 | 2072 | 2057 | 2034 |
| 6.0 | 1914 | 1937 | 1983 | 1972 | 1969 | 1947 | 1936 | 1910 | 1905 | 1874 |
| 9.0 | 1699 | 1724 | 1765 | 1760 | 1752 | 1743 | 1742 | 1728 | 1715 | 1691 |
| 12.0 | 1486 | 1497 | 1534 | 1520 | 1529 | 1523 | 1521 | 1508 | 1504 | 1485 |
| 15.0 | 1238 | 1258 | 1293 | 1287 | 1287 | 1280 | 1283 | 1280 | 1277 | 1263 |
| 18.0 | 986.5 | 1005 | 1044 | 1034 | 1042 | 1029 | 1037 | 1043 | 1044 | 1032 |
| 21.0 | 730.3 | 747.5 | 782.3 | 782.6 | 792.5 | 789.7 | 815.6 | 804.6 | 815.1 | 810.6 |
| 24.0 | 499.4 | 510.0 | 533.5 | 529.4 | 542.9 | 539.5 | 558.2 | 562.4 | 574.8 | 568.5 |
| 27.0 | 317.7 | 320.0 | 338.3 | 333.7 | 342.5 | 341.1 | 350.8 | 350.0 | 360.0 | 354.2 |
| 30.0 | 179.0 | 182.9 | 195.9 | 190.7 | 199.8 | 199.4 | 205.6 | 203.5 | 210.6 | 205.3 |
| 33.0 | 100.7 | 101.8 | 108.4 | 106.6 | 109.9 | 107.0 | 107.0 | 104.8 | 108.2 | 104.5 |
| 36.0 | 54.89 | 53.31 | 58.31 | 57.29 | 58.10 | 57.31 | 57.33 | 57.89 | 57.13 | 57.53 |
| 39.0 | 31.08 | 32.02 | 34.67 | 34.02 | 34.48 | 33.79 | 33.92 | 33.15 | 33.47 | 32.80 |
| 42.0 | 21.47 | 21.52 | 22.80 | 22.74 | 22.69 | 22.22 | 21.77 | 21.09 | 21.11 | 20.51 |
| 45.0 | 17.94 | 17.64 | 18.53 | 18.36 | 18.45 | 17.98 | 17.35 | 16.78 | 16.60 | 16.32 |
| 48.0 | 16.08 | 15.97 | 16.63 | 16.49 | 16.57 | 16.29 | 15.78 | 15.38 | 15.21 | 15.10 |
| 51.0 | 14.35 | 14.44 | 15.18 | 15.02 | 14.99 | 14.67 | 14.47 | 14.19 | 14.10 | 13.96 |
| 54.0 | 12.56 | 12.79 | 13.52 | 13.34 | 13.23 | 12.96 | 12.78 | 12.52 | 12.43 | 12.18 |
| 57.0 | 10.69 | 10.88 | 11.62 | 11.40 | 11.35 | 11.02 | 10.89 | 10.60 | 10.46 | 10.15 |
| 60.0 | 8.962 | 9.165 | 9.735 | 9.516 | 9.462 | 9.161 | 8.952 | 8.611 | 8.504 | 8.160 |
| 63.0 | 7.216 | 7.428 | 7.826 | 7.667 | 7.586 | 7.289 | 7.064 | 6.731 | 6.603 | 6.292 |
| 66.0 | 5.651 | 5.816 | 6.038 | 5.928 | 5.878 | 5.611 | 5.415 | 5.123 | 5.020 | 4.757 |
| 69.0 | 4.323 | 4.428 | 4.569 | 4.471 | 4.442 | 4.217 | 4.073 | 3.836 | 3.772 | 3.558 |
| 72.0 | 3.162 | 3.239 | 3.330 | 3.244 | 3.216 | 3.041 | 2.924 | 2.776 | 2.711 | 2.542 |
| 75.0 | 1.821 | 1.852 | 1.921 | 1.903 | 1.932 | 1.813 | 1.756 | 1.641 | 1.603 | 1.528 |
| 78.0 | 1.305 | 1.293 | 1.319 | 1.339 | 1.347 | 1.293 | 1.267 | 1.204 | 1.177 | 1.114 |
| 81.0 | 0.9065 | 0.9063 | 0.9147 | 0.9324 | 0.9454 | 0.9039 | 0.8864 | 0.8405 | 0.8165 | 0.7726 |
| 84.0 | 0.5808 | 0.5807 | 0.5826 | 0.6067 | 0.6109 | 0.5848 | 0.5651 | 0.5257 | 0.5061 | 0.4666 |
| 87.0 | 0.2788 | 0.2923 | 0.2986 | 0.3048 | 0.3095 | 0.2873 | 0.2702 | 0.2457 | 0.2177 | 0.1953 |
| 90.0 | 0.0547 | 0.0503 | 0.0481 | 0.0590 | 0.0525 | 0.0525 | 0.0394 | 0.0306 | 0.0262 | 0.0306 |
| G/C | 300.0 | 315.0 | 330.0 | 345.0 | | | | | | |
| 0.0 | 2147 | 2143 | 2141 | 2137 | | | | | | |
| 3.0 | 2019 | 2005 | 2000 | 1973 | | | | | | |
| 6.0 | 1864 | 1838 | 1827 | 1811 | | | | | | |
| 9.0 | 1692 | 1671 | 1655 | 1646 | | | | | | |
| 12.0 | 1489 | 1472 | 1465 | 1458 | | | | | | |
| 15.0 | 1264 | 1251 | 1255 | 1248 | | | | | | |
| 18.0 | 1032 | 1017 | 1030 | 1018 | | | | | | |
| 21.0 | 826.8 | 806.2 | 812.2 | 803.8 | | | | | | |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-05

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 | 582.3 | 566.1 | 575.1 | 561.0 |
| 27.0 | 364.3 | 358.1 | 363.3 | 359.5 |
| 30.0 | 210.5 | 205.3 | 210.4 | 203.9 |
| 33.0 | 105.9 | 103.0 | 103.6 | 101.0 |
| 36.0 | 55.23 | 56.52 | 54.89 | 55.44 |
| 39.0 | 32.84 | 32.41 | 32.56 | 31.99 |
| 42.0 | 20.70 | 20.37 | 20.30 | 19.39 |
| 45.0 | 16.37 | 16.15 | 15.99 | 15.51 |
| 48.0 | 15.04 | 14.81 | 14.52 | 14.21 |
| 51.0 | 13.85 | 13.44 | 13.22 | 12.86 |
| 54.0 | 11.98 | 11.54 | 11.35 | 10.91 |
| 57.0 | 9.932 | 9.536 | 9.331 | 8.943 |
| 60.0 | 7.925 | 7.561 | 7.407 | 7.069 |
| 63.0 | 6.080 | 5.786 | 5.668 | 5.436 |
| 66.0 | 4.592 | 4.359 | 4.286 | 4.140 |
| 69.0 | 3.416 | 3.230 | 3.173 | 3.092 |
| 72.0 | 2.418 | 2.255 | 2.203 | 2.118 |
| 75.0 | 1.483 | 1.420 | 1.389 | 1.344 |
| 78.0 | 1.088 | 1.040 | 1.009 | 0.9653 |
| 81.0 | 0.7422 | 0.7070 | 0.6854 | 0.6524 |
| 84.0 | 0.4427 | 0.4119 | 0.3968 | 0.3682 |
| 87.0 | 0.1675 | 0.1494 | 0.1260 | 0.1253 |
| 90.0 | 0.0262 | 0.0328 | 0.0306 | 0.0328 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-05

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: