

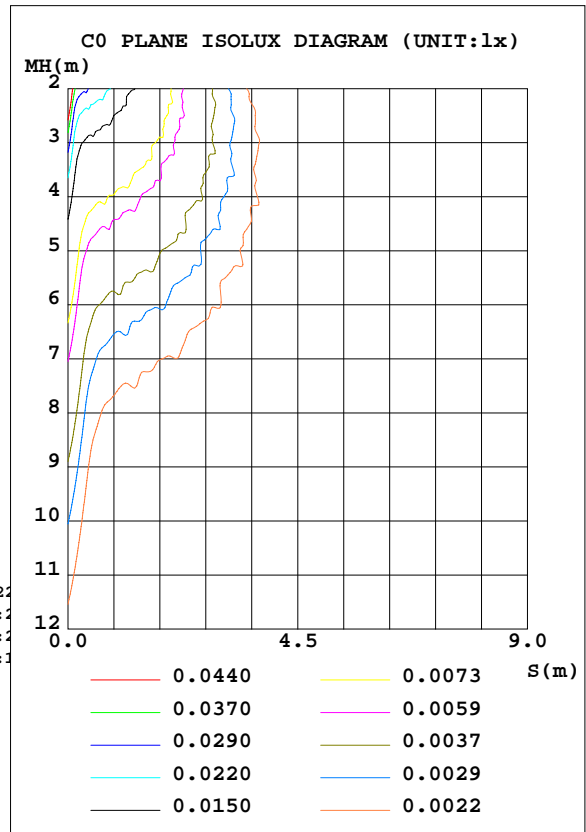
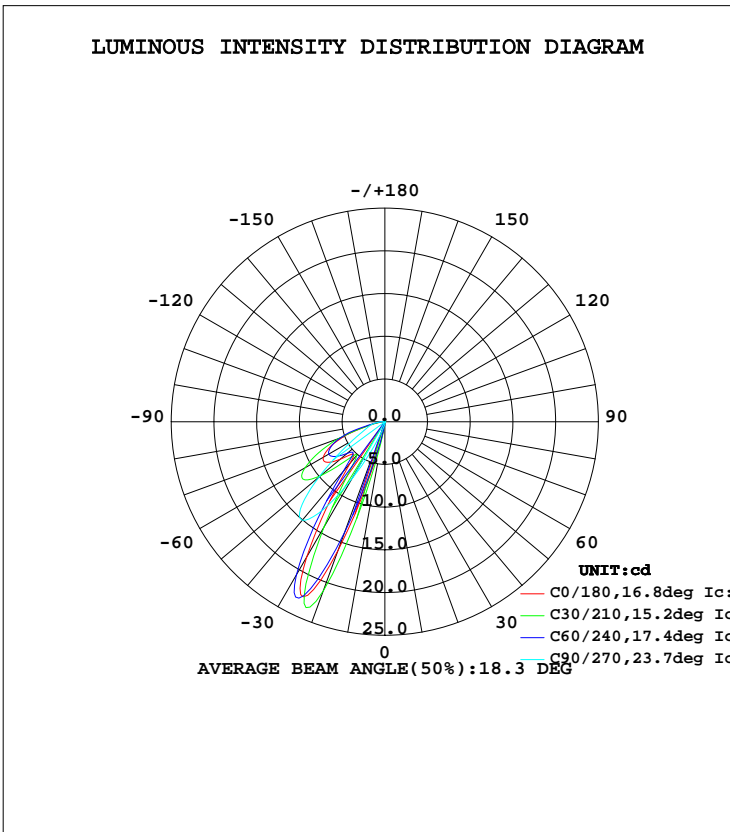


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|------------------|----------------------|------------------|--------|--------------------|----------|
| MODEL | 8918(vertical plate) | Imax(cd) | 23.63 | S/MH(C0/180) | 4.84 |
| NOMINAL POWER(W) | 2.5 | LOR(%) | 100.0 | S/MH(C90/270) | 4.23 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 16.947 | η UP, DN(C0-180) | 1.7,22.6 |
| NOMINAL FLUX(lm) | 16.9465 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 1.6,74.1 |
| LAMPS INSIDE | 1 | η up(%) | 3.3 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | | η down(%) | 96.7 | CIBSE SHR MAX | 1.00 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-----------|
| 10 | 0.1309 | 0.0732 | 0.1155 | 0.4238 | 1.318 | 1.687 | 0.5125 | 0.1349 | 0- 10 | 0.0339 | 0.0339 | 0.20,0.20 |
| 20 | 0.1117 | 0.0693 | 0.0963 | 0.7592 | 15.97 | 19.49 | 1.632 | 0.1040 | 10- 20 | 0.6775 | 0.7113 | 4.2,4.2 |
| 30 | 0.1001 | 0.0693 | 0.0886 | 2.228 | 18.33 | 16.08 | 7.694 | 0.0963 | 20- 30 | 2.923 | 3.634 | 21.4,21.4 |
| 40 | 0.0886 | 0.0693 | 0.0809 | 5.306 | 6.333 | 5.422 | 15.04 | 0.0886 | 30- 40 | 3.126 | 6.761 | 39.9,39.9 |
| 50 | 0.0809 | 0.0693 | 0.0732 | 6.245 | 6.844 | 8.452 | 10.07 | 0.0770 | 40- 50 | 2.613 | 9.373 | 55.3,55.3 |
| 60 | 0.0732 | 0.0693 | 0.0693 | 3.818 | 8.332 | 10.10 | 4.379 | 0.0808 | 50- 60 | 2.951 | 12.32 | 72.7,72.7 |
| 70 | 0.0655 | 0.0693 | 0.0655 | 1.678 | 5.190 | 5.865 | 2.302 | 0.0693 | 60- 70 | 2.481 | 14.80 | 87.4,87.4 |
| 80 | 0.0655 | 0.0732 | 0.0655 | 0.6579 | 1.180 | 1.200 | 1.385 | 0.0655 | 70- 80 | 1.209 | 16.01 | 94.5,94.5 |
| 90 | 0.0655 | 0.0886 | 0.0655 | 0.2229 | 0.4071 | 0.4509 | 0.4652 | 0.0655 | 80- 90 | 0.3737 | 16.39 | 96.7,96.7 |
| 100 | 0.0655 | 0.0924 | 0.0655 | 0.0732 | 0.0846 | 0.1040 | 0.0924 | 0.0655 | 90-100 | 0.1208 | 16.51 | 97.4,97.4 |
| 110 | 0.0846 | 0.1117 | 0.0655 | 0.0770 | 0.0693 | 0.0924 | 0.0809 | 0.0655 | 100-110 | 0.0845 | 16.59 | 97.9,97.9 |
| 120 | 0.1001 | 0.1117 | 0.1001 | 0.0770 | 0.0693 | 0.0886 | 0.0809 | 0.0655 | 110-120 | 0.0833 | 16.68 | 98.4,98.4 |
| 130 | 0.1001 | 0.1117 | 0.1001 | 0.0809 | 0.0693 | 0.0847 | 0.0809 | 0.0655 | 120-130 | 0.0766 | 16.75 | 98.9,98.9 |
| 140 | 0.1001 | 0.1117 | 0.1001 | 0.0809 | 0.0693 | 0.0770 | 0.0809 | 0.0655 | 130-140 | 0.0667 | 16.82 | 99.3,99.3 |
| 150 | 0.1001 | 0.1078 | 0.1001 | 0.0809 | 0.0693 | 0.0693 | 0.0809 | 0.0693 | 140-150 | 0.0540 | 16.87 | 99.6,99.6 |
| 160 | 0.0963 | 0.1001 | 0.1039 | 0.0809 | 0.0693 | 0.0693 | 0.0809 | 0.0693 | 150-160 | 0.0399 | 16.91 | 99.8,99.8 |
| 170 | 0.0924 | 0.1001 | 0.1040 | 0.0809 | 0.0693 | 0.0693 | 0.0809 | 0.0809 | 160-170 | 0.0245 | 16.94 | 100,100 |
| 180 | 0.0924 | 0.1001 | 0.1040 | 0.0809 | 0.0693 | 0.0809 | 0.0809 | 0.0809 | 170-180 | 0.0082 | 16.95 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

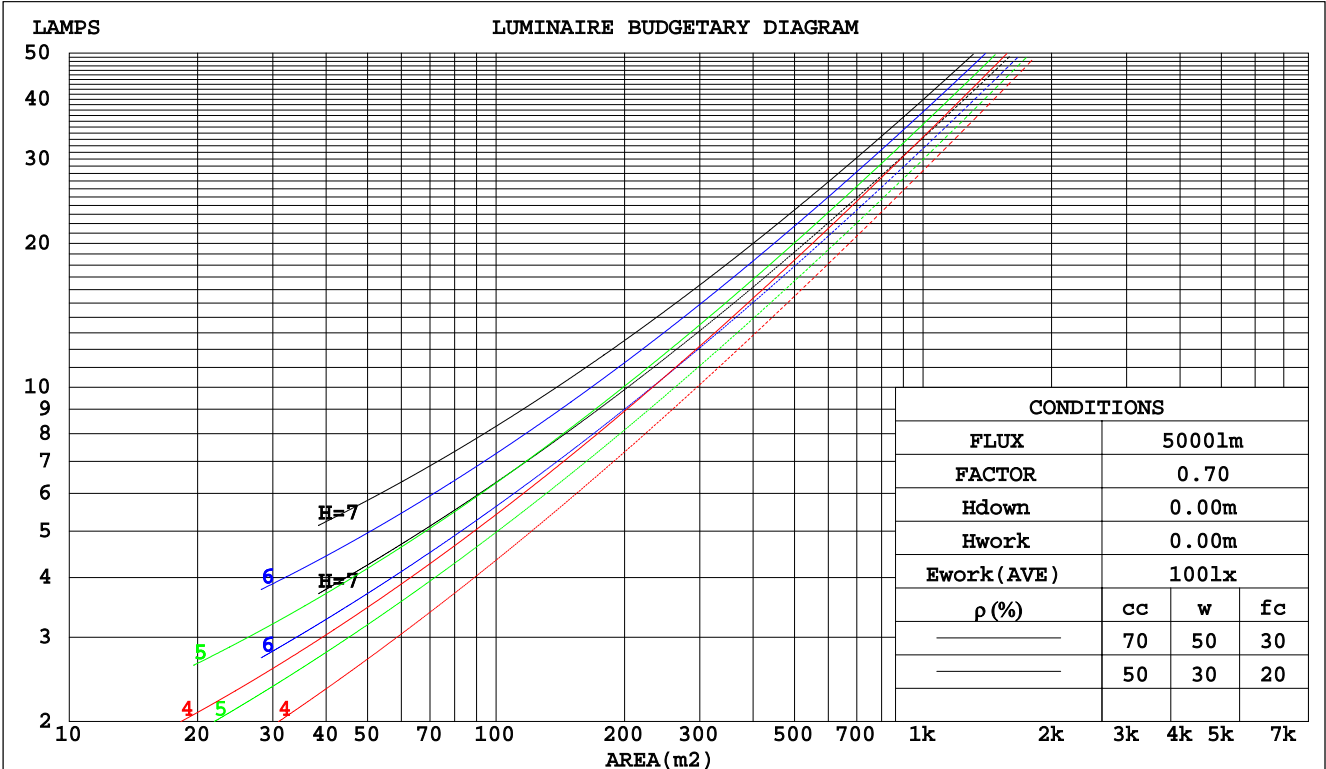


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pw | | | | | | | | | | | | | | | | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0 | 1.02 | .98 | .93 | .90 | .95 | .92 | .95 | .91 | .88 | .90 | .87 | .85 | .86 | .84 | .82 | .79 |
| 2.0 | .88 | .81 | .75 | .86 | .79 | .73 | .82 | .76 | .71 | .78 | .73 | .69 | .74 | .70 | .67 | .65 |
| 3.0 | .76 | .68 | .61 | .74 | .66 | .60 | .71 | .64 | .58 | .68 | .62 | .57 | .65 | .60 | .56 | .53 |
| 4.0 | .67 | .57 | .50 | .65 | .57 | .50 | .62 | .55 | .49 | .59 | .53 | .48 | .57 | .51 | .47 | .44 |
| 5.0 | .59 | .49 | .42 | .58 | .49 | .42 | .55 | .47 | .41 | .53 | .46 | .40 | .50 | .44 | .40 | .37 |
| 6.0 | .52 | .43 | .36 | .51 | .42 | .36 | .49 | .41 | .35 | .47 | .40 | .35 | .45 | .39 | .34 | .32 |
| 7.0 | .47 | .38 | .31 | .46 | .37 | .31 | .44 | .36 | .31 | .42 | .35 | .30 | .41 | .34 | .30 | .28 |
| 8.0 | .42 | .33 | .27 | .42 | .33 | .27 | .40 | .32 | .27 | .38 | .31 | .26 | .37 | .31 | .26 | .24 |
| 9.0 | .38 | .30 | .24 | .38 | .29 | .24 | .36 | .29 | .24 | .35 | .28 | .23 | .34 | .27 | .23 | .21 |
| 10.0 | .35 | .27 | .21 | .34 | .26 | .21 | .33 | .26 | .21 | .32 | .25 | .21 | .31 | .25 | .20 | .19 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| 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 | .328 | .186 | .059 | .319 | .182 | .058 | .304 | .175 | .056 | .290 | .167 | .054 | .277 | .161 | .052 | |
| 2.0 | .308 | .169 | .052 | .301 | .166 | .051 | .287 | .160 | .050 | .274 | .154 | .048 | .263 | .149 | .047 | |
| 3.0 | .284 | .151 | .045 | .278 | .149 | .045 | .266 | .144 | .044 | .255 | .139 | .043 | .244 | .135 | .042 | |
| 4.0 | .262 | .136 | .040 | .256 | .134 | .040 | .245 | .130 | .039 | .235 | .126 | .038 | .226 | .123 | .037 | |
| 5.0 | .242 | .123 | .036 | .237 | .122 | .035 | .227 | .118 | .035 | .218 | .115 | .034 | .209 | .112 | .034 | |
| 6.0 | .224 | .112 | .032 | .219 | .111 | .032 | .211 | .108 | .031 | .202 | .105 | .031 | .195 | .103 | .030 | |
| 7.0 | .208 | .103 | .029 | .204 | .102 | .029 | .196 | .099 | .029 | .189 | .097 | .028 | .182 | .094 | .028 | |
| 8.0 | .194 | .095 | .027 | .190 | .094 | .026 | .183 | .092 | .026 | .177 | .089 | .026 | .170 | .087 | .025 | |
| 9.0 | .182 | .088 | .025 | .178 | .087 | .024 | .172 | .085 | .024 | .166 | .083 | .024 | .160 | .081 | .023 | |
| 10.0 | .171 | .082 | .023 | .168 | .081 | .023 | .162 | .079 | .022 | .156 | .078 | .022 | .151 | .076 | .022 | |

| 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 | .216 | .216 | .216 | .184 | .184 | .184 | .126 | .126 | .126 | .072 | .072 | .072 | .023 | .023 | .023 | |
| 1.0 | .207 | .181 | .158 | .177 | .156 | .136 | .121 | .107 | .094 | .070 | .062 | .055 | .022 | .020 | .018 | |
| 2.0 | .200 | .157 | .122 | .171 | .135 | .105 | .117 | .094 | .073 | .068 | .055 | .043 | .022 | .018 | .014 | |
| 3.0 | .193 | .140 | .098 | .165 | .121 | .085 | .114 | .084 | .060 | .066 | .049 | .035 | .021 | .016 | .011 | |
| 4.0 | .186 | .127 | .082 | .159 | .110 | .071 | .110 | .076 | .050 | .063 | .045 | .030 | .020 | .015 | .010 | |
| 5.0 | .179 | .117 | .071 | .153 | .101 | .062 | .106 | .071 | .044 | .061 | .041 | .026 | .020 | .014 | .009 | |
| 6.0 | .172 | .109 | .064 | .148 | .094 | .055 | .102 | .066 | .039 | .059 | .039 | .023 | .019 | .013 | .008 | |
| 7.0 | .165 | .102 | .058 | .142 | .088 | .050 | .098 | .062 | .036 | .057 | .037 | .021 | .018 | .012 | .007 | |
| 8.0 | .158 | .096 | .054 | .136 | .084 | .047 | .094 | .059 | .033 | .055 | .035 | .020 | .018 | .011 | .007 | |
| 9.0 | .152 | .091 | .050 | .131 | .079 | .044 | .091 | .056 | .031 | .053 | .033 | .019 | .017 | .011 | .006 | |
| 10.0 | .147 | .087 | .048 | .126 | .076 | .042 | .088 | .053 | .030 | .051 | .032 | .018 | .017 | .010 | .006 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | | | | | | | | | |
|---|------------------|-------|-------|-------|-------|----------------|-------|-------------------|-------|-------|
| NAME: | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: | | | | | SUR.: | | | PROTECTION ANGLE: | | |
| 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 | -23.1 | -21.5 | -22.7 | -21.2 | -20.9 | -23.4 | -21.8 | -23.1 | -21.5 | -21.3 |
| 3H | -20.0 | -18.6 | -19.7 | -18.3 | -18.0 | -20.2 | -18.8 | -19.9 | -18.5 | -18.2 |
| 4H | -18.1 | -16.8 | -17.8 | -16.5 | -16.1 | -18.4 | -17.0 | -18.0 | -16.7 | -16.3 |
| 6H | -16.1 | -14.8 | -15.7 | -14.5 | -14.1 | -16.3 | -15.0 | -15.9 | -14.6 | -14.3 |
| 8H | -15.0 | -13.7 | -14.6 | -13.4 | -13.0 | -15.0 | -13.8 | -14.6 | -13.5 | -13.1 |
| 12H | -13.7 | -12.5 | -13.3 | -12.1 | -11.7 | -13.7 | -12.5 | -13.3 | -12.2 | -11.8 |
| 4H 2H | -22.0 | -20.6 | -21.6 | -20.3 | -20.0 | -22.2 | -20.9 | -21.9 | -20.6 | -20.2 |
| 3H | -18.7 | -17.5 | -18.3 | -17.2 | -16.8 | -18.9 | -17.8 | -18.5 | -17.4 | -17.0 |
| 4H | -16.7 | -15.6 | -16.2 | -15.2 | -14.8 | -16.9 | -15.8 | -16.5 | -15.5 | -15.0 |
| 6H | -14.4 | -13.4 | -14.0 | -13.0 | -12.6 | -14.6 | -13.6 | -14.1 | -13.2 | -12.8 |
| 8H | -13.1 | -12.2 | -12.6 | -11.8 | -11.3 | -13.2 | -12.3 | -12.7 | -11.8 | -11.4 |
| 12H | -11.7 | -10.8 | -11.2 | -10.4 | -9.9 | -11.7 | -10.9 | -11.2 | -10.4 | -10.0 |
| 8H 4H | -15.8 | -14.9 | -15.4 | -14.5 | -14.0 | -16.0 | -15.1 | -15.6 | -14.7 | -14.2 |
| 6H | -13.3 | -12.5 | -12.8 | -12.1 | -11.6 | -13.5 | -12.7 | -13.0 | -12.2 | -11.7 |
| 8H | -11.8 | -11.1 | -11.2 | -10.6 | -10.1 | -11.9 | -11.2 | -11.3 | -10.7 | -10.2 |
| 12H | -10.0 | -9.4 | -9.5 | -8.9 | -8.4 | -10.1 | -9.5 | -9.5 | -9.0 | -8.4 |
| 12H 4H | -15.6 | -14.8 | -15.1 | -14.3 | -13.8 | -15.8 | -14.9 | -15.3 | -14.5 | -14.0 |
| 6H | -12.9 | -12.2 | -12.4 | -11.8 | -11.2 | -13.1 | -12.4 | -12.5 | -11.9 | -11.4 |
| 8H | -11.3 | -10.7 | -10.8 | -10.2 | -9.7 | -11.4 | -10.8 | -10.9 | -10.3 | -9.8 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | |
| 2.0H | + 0.3 / - 0.4 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117 Corrected 16.95 lm Total Lamp Luminous Flux. (8log(F/F0) = -14.2)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| 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) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 55 | 43 | 36 | 54 | 43 | 36 | 53 | 42 | 35 | 29 |
| 0.80 | 65 | 53 | 45 | 63 | 52 | 45 | 61 | 51 | 44 | 37 |
| 1.00 | 73 | 61 | 54 | 72 | 61 | 53 | 69 | 62 | 53 | 45 |
| 1.25 | 80 | 69 | 61 | 78 | 68 | 61 | 75 | 66 | 60 | 52 |
| 1.50 | 85 | 75 | 67 | 83 | 74 | 67 | 80 | 72 | 65 | 57 |
| 2.00 | 93 | 83 | 76 | 90 | 82 | 76 | 86 | 79 | 74 | 65 |
| 2.50 | 97 | 88 | 82 | 94 | 87 | 81 | 90 | 84 | 79 | 70 |
| 3.00 | 100 | 93 | 87 | 98 | 91 | 86 | 93 | 88 | 83 | 74 |
| 4.00 | 105 | 99 | 94 | 102 | 97 | 92 | 97 | 93 | 89 | 79 |
| 5.00 | 107 | 102 | 98 | 104 | 100 | 96 | 99 | 96 | 92 | 82 |
| 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:
 Test Date:2020-05-25

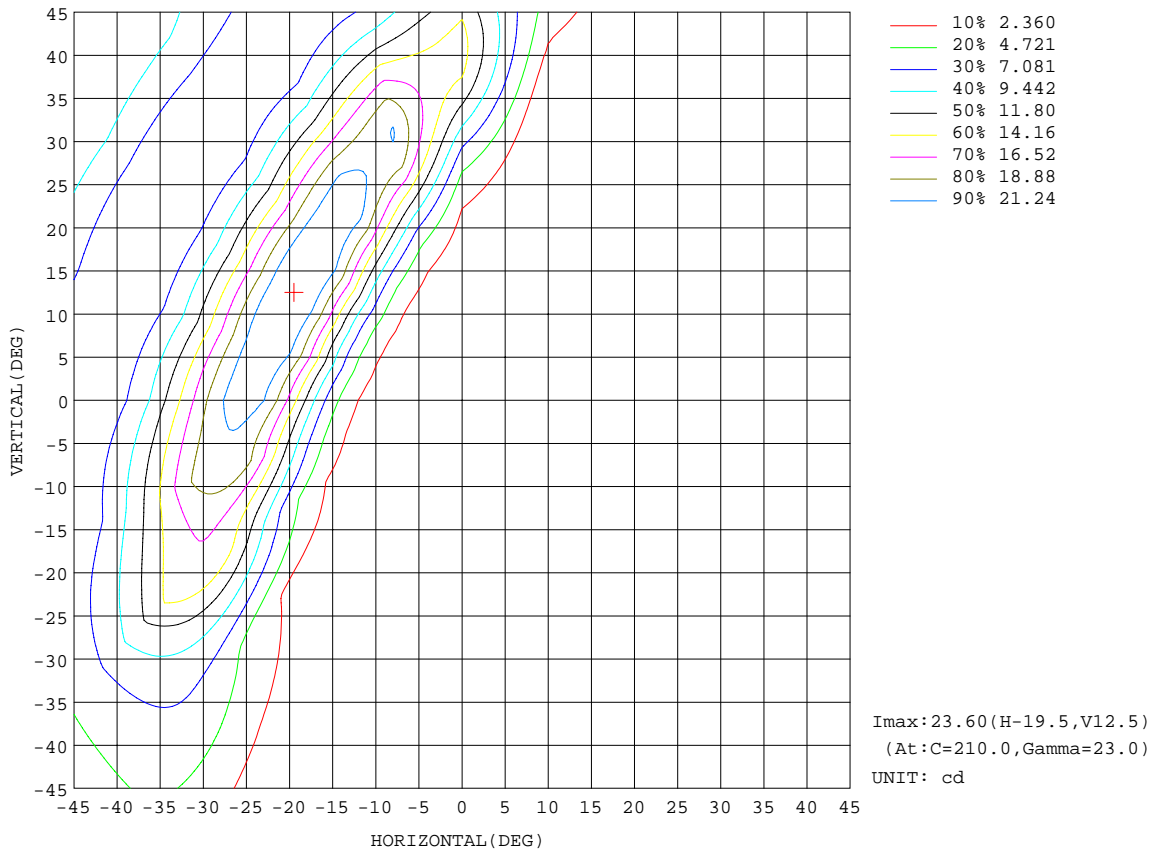
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

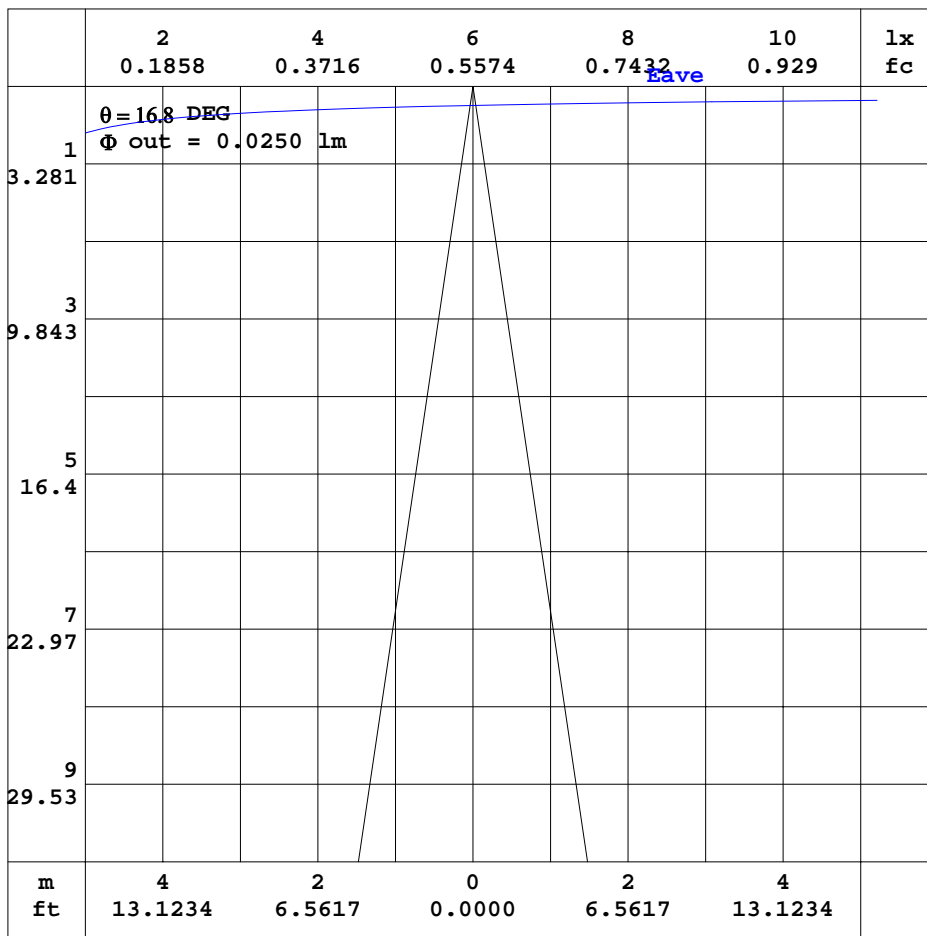
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI CURVES

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |



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:
 Test Date: 2020-05-25

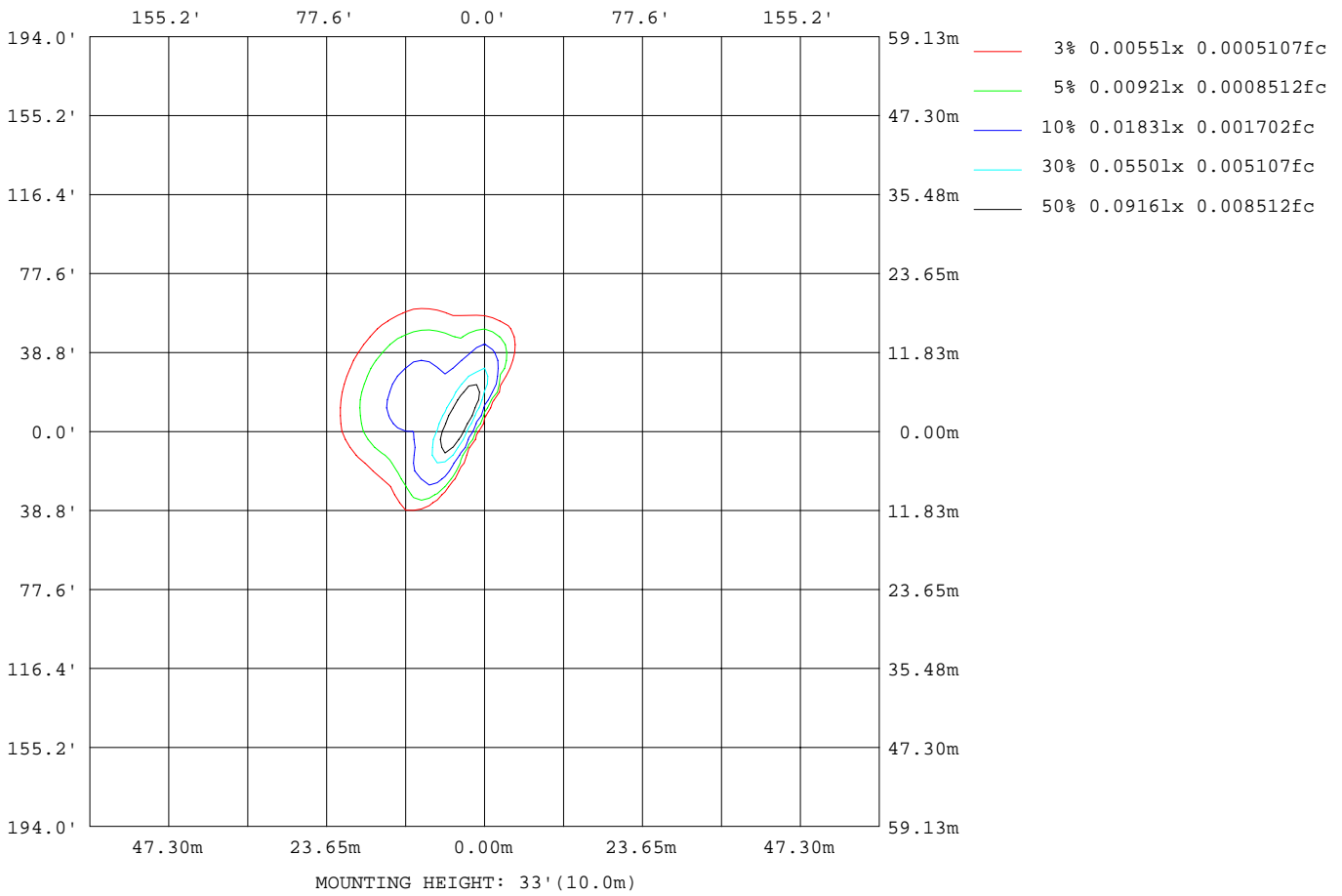
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 86 |
| L_0~180(75)av | 51 |
| L_0~180(85)av | 38 |
| L_90~270(65)av | 37 |
| L_90~270(75)av | 37 |
| L_90~270(85)av | 47 |
| L_45(65)av | 65 |
| L_45(75)av | 38 |
| L_45(85)av | 31 |

Standard: GB/T 29293-2012

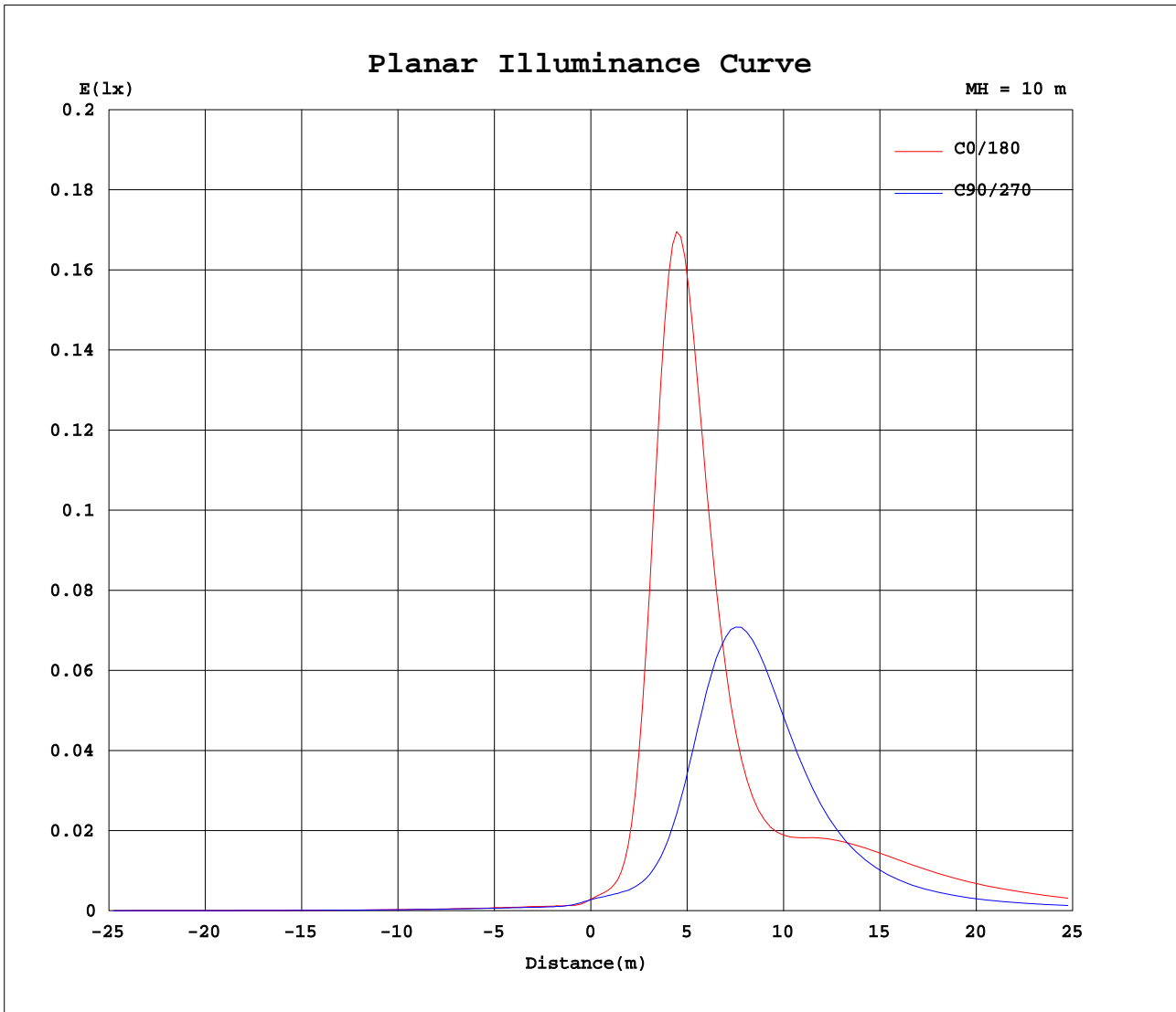
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 0.29 | 0.25 | 0.28 | 0.24 | 0.27 | 0.24 | 0.28 | 0.23 | 0.23 | 0.27 | 0.24 | 0.29 | 0.29 | 0.25 | 0.28 | 0.24 | 0.27 | 0.24 | 0.28 |
| 5 | 0.14 | 0.10 | 0.12 | 0.08 | 0.12 | 0.10 | 0.16 | 0.17 | 0.24 | 0.34 | 0.40 | 0.47 | 0.52 | 0.52 | 0.54 | 0.49 | 0.48 | 0.41 | 0.38 |
| 10 | 0.13 | 0.10 | 0.11 | 0.07 | 0.11 | 0.07 | 0.12 | 0.12 | 0.25 | 0.42 | 0.58 | 0.93 | 1.32 | 1.81 | 1.85 | 1.69 | 1.14 | 0.74 | 0.51 |
| 15 | 0.12 | 0.08 | 0.11 | 0.07 | 0.11 | 0.07 | 0.10 | 0.10 | 0.28 | 0.53 | 1.24 | 3.15 | 5.62 | 8.39 | 8.75 | 7.67 | 4.58 | 2.14 | 0.81 |
| 20 | 0.11 | 0.07 | 0.11 | 0.07 | 0.10 | 0.07 | 0.10 | 0.07 | 0.28 | 0.76 | 3.24 | 9.64 | 16.0 | 20.3 | 21.0 | 19.5 | 13.7 | 6.43 | 1.63 |
| 25 | 0.11 | 0.07 | 0.10 | 0.07 | 0.10 | 0.07 | 0.09 | 0.07 | 0.29 | 1.25 | 7.54 | 18.4 | 22.6 | 22.3 | 22.3 | 23.2 | 22.4 | 14.4 | 3.74 |
| 30 | 0.10 | 0.07 | 0.10 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.30 | 2.23 | 13.3 | 21.0 | 18.3 | 14.7 | 14.3 | 16.1 | 20.7 | 21.0 | 7.69 |
| 35 | 0.10 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.32 | 3.73 | 16.5 | 16.1 | 11.0 | 7.95 | 7.59 | 8.86 | 13.4 | 19.9 | 12.4 |
| 40 | 0.09 | 0.07 | 0.09 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.35 | 5.31 | 14.9 | 10.0 | 6.33 | 5.21 | 5.11 | 5.42 | 7.63 | 14.0 | 15.0 |
| 45 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.40 | 6.27 | 10.9 | 6.22 | 5.35 | 6.25 | 6.42 | 5.74 | 5.28 | 8.41 | 13.7 |
| 50 | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.41 | 6.25 | 7.20 | 5.15 | 6.84 | 9.35 | 9.82 | 8.45 | 5.78 | 5.53 | 10.1 |
| 55 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.42 | 5.21 | 4.81 | 5.26 | 8.27 | 11.1 | 11.7 | 10.4 | 7.10 | 4.85 | 6.65 |
| 60 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.40 | 3.82 | 3.50 | 5.18 | 8.33 | 10.3 | 10.8 | 10.1 | 7.58 | 4.76 | 4.38 |
| 65 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.36 | 2.59 | 2.77 | 4.78 | 7.17 | 8.20 | 8.52 | 8.29 | 7.00 | 4.50 | 3.04 |
| 70 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.30 | 1.68 | 2.29 | 4.02 | 5.19 | 5.50 | 5.74 | 5.87 | 5.55 | 4.07 | 2.30 |
| 75 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.25 | 1.09 | 1.87 | 2.58 | 2.56 | 2.35 | 2.48 | 2.71 | 3.35 | 3.21 | 1.82 |
| 80 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.19 | 0.66 | 1.11 | 1.18 | 1.18 | 1.06 | 1.10 | 1.20 | 1.47 | 1.65 | 1.39 |
| 85 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.10 | 0.35 | 0.64 | 0.62 | 0.59 | 0.59 | 0.55 | 0.58 | 0.63 | 0.79 | 0.75 |
| 90 | 0.07 | 0.08 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.08 | 0.08 | 0.22 | 0.39 | 0.39 | 0.41 | 0.44 | 0.43 | 0.45 | 0.47 | 0.52 | 0.47 |
| 95 | 0.07 | 0.08 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.09 | 0.08 | 0.07 | 0.10 | 0.07 | 0.10 | 0.11 | 0.08 | 0.10 | 0.08 | 0.11 | 0.10 |
| 100 | 0.07 | 0.08 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.08 | 0.10 | 0.07 | 0.10 | 0.08 | 0.10 | 0.09 |
| 105 | 0.07 | 0.09 | 0.07 | 0.10 | 0.07 | 0.09 | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.10 | 0.07 | 0.09 | 0.07 | 0.10 | 0.10 |
| 110 | 0.08 | 0.11 | 0.07 | 0.11 | 0.07 | 0.10 | 0.07 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.08 | 0.08 |
| 115 | 0.10 | 0.10 | 0.07 | 0.11 | 0.09 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.08 | 0.08 |
| 120 | 0.10 | 0.10 | 0.08 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.09 | 0.07 | 0.09 | 0.07 | 0.08 | 0.08 |
| 125 | 0.10 | 0.10 | 0.08 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 |
| 130 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 |
| 135 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 |
| 140 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.08 | 0.07 | 0.08 | 0.08 |
| 145 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| 150 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| 155 | 0.10 | 0.09 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| 160 | 0.10 | 0.09 | 0.11 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 |
| 165 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.09 | 0.08 | 0.08 |
| 170 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.09 | 0.08 | 0.08 |
| 175 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.09 | 0.08 | 0.08 |
| 180 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.09 | 0.08 | 0.08 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|-------------------|
| Test:U:119.9V I:0.0912A P:2.879W PF:0.2633 Lamp Flux:16.9465x1 lm | | |
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 0.23 | 0.23 | 0.27 | 0.24 | 0.29 | | | | | | | | | | | | | | |
| 5 | 0.28 | 0.23 | 0.19 | 0.11 | 0.13 | | | | | | | | | | | | | | |
| 10 | 0.34 | 0.22 | 0.13 | 0.08 | 0.12 | | | | | | | | | | | | | | |
| 15 | 0.41 | 0.20 | 0.11 | 0.07 | 0.11 | | | | | | | | | | | | | | |
| 20 | 0.47 | 0.18 | 0.10 | 0.07 | 0.11 | | | | | | | | | | | | | | |
| 25 | 0.60 | 0.17 | 0.10 | 0.07 | 0.11 | | | | | | | | | | | | | | |
| 30 | 0.84 | 0.15 | 0.10 | 0.07 | 0.10 | | | | | | | | | | | | | | |
| 35 | 1.27 | 0.13 | 0.10 | 0.07 | 0.10 | | | | | | | | | | | | | | |
| 40 | 1.92 | 0.11 | 0.09 | 0.07 | 0.09 | | | | | | | | | | | | | | |
| 45 | 2.78 | 0.11 | 0.08 | 0.07 | 0.08 | | | | | | | | | | | | | | |
| 50 | 3.57 | 0.08 | 0.08 | 0.07 | 0.08 | | | | | | | | | | | | | | |
| 55 | 3.82 | 0.08 | 0.08 | 0.07 | 0.08 | | | | | | | | | | | | | | |
| 60 | 3.38 | 0.08 | 0.08 | 0.07 | 0.07 | | | | | | | | | | | | | | |
| 65 | 2.60 | 0.08 | 0.07 | 0.07 | 0.08 | | | | | | | | | | | | | | |
| 70 | 1.83 | 0.08 | 0.07 | 0.07 | 0.07 | | | | | | | | | | | | | | |
| 75 | 1.19 | 0.08 | 0.07 | 0.07 | 0.07 | | | | | | | | | | | | | | |
| 80 | 0.73 | 0.08 | 0.07 | 0.07 | 0.07 | | | | | | | | | | | | | | |
| 85 | 0.37 | 0.08 | 0.07 | 0.08 | 0.07 | | | | | | | | | | | | | | |
| 90 | 0.21 | 0.08 | 0.07 | 0.08 | 0.07 | | | | | | | | | | | | | | |
| 95 | 0.10 | 0.08 | 0.07 | 0.08 | 0.07 | | | | | | | | | | | | | | |
| 100 | 0.08 | 0.08 | 0.07 | 0.08 | 0.07 | | | | | | | | | | | | | | |
| 105 | 0.08 | 0.08 | 0.07 | 0.09 | 0.07 | | | | | | | | | | | | | | |
| 110 | 0.08 | 0.08 | 0.07 | 0.09 | 0.08 | | | | | | | | | | | | | | |
| 115 | 0.08 | 0.08 | 0.07 | 0.09 | 0.08 | | | | | | | | | | | | | | |
| 120 | 0.08 | 0.08 | 0.07 | 0.09 | 0.10 | | | | | | | | | | | | | | |
| 125 | 0.08 | 0.08 | 0.07 | 0.09 | 0.10 | | | | | | | | | | | | | | |
| 130 | 0.08 | 0.08 | 0.07 | 0.09 | 0.10 | | | | | | | | | | | | | | |
| 135 | 0.08 | 0.08 | 0.07 | 0.09 | 0.11 | | | | | | | | | | | | | | |
| 140 | 0.08 | 0.08 | 0.07 | 0.09 | 0.11 | | | | | | | | | | | | | | |
| 145 | 0.08 | 0.08 | 0.07 | 0.09 | 0.11 | | | | | | | | | | | | | | |
| 150 | 0.08 | 0.08 | 0.07 | 0.09 | 0.11 | | | | | | | | | | | | | | |
| 155 | 0.08 | 0.08 | 0.07 | 0.09 | 0.11 | | | | | | | | | | | | | | |
| 160 | 0.08 | 0.08 | 0.07 | 0.09 | 0.11 | | | | | | | | | | | | | | |
| 165 | 0.08 | 0.08 | 0.08 | 0.08 | 0.11 | | | | | | | | | | | | | | |
| 170 | 0.08 | 0.08 | 0.08 | 0.08 | 0.11 | | | | | | | | | | | | | | |
| 175 | 0.08 | 0.08 | 0.08 | 0.08 | 0.11 | | | | | | | | | | | | | | |
| 180 | 0.08 | 0.08 | 0.08 | 0.08 | 0.10 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-05-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks: