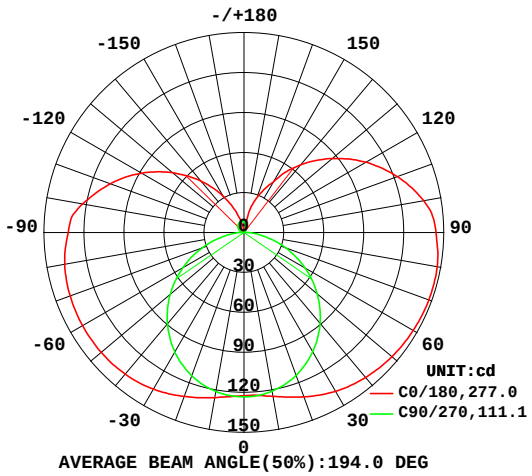
# LUMINAIRE PHOTOMETRIC TEST REPORT

| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
|---|---|---|
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |

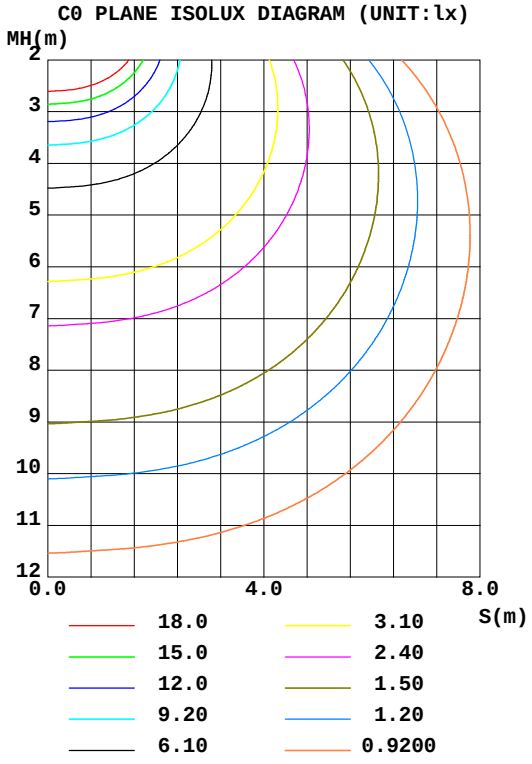
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 67.17 lm/W | |
|---|---|---|---|---|---|
| MODEL | TLS-RNR30MKXBX1000 | Imax(cd) | 147.7 | S/MH(C0/180) | 1.74 |
| NOMINAL POWER(W) | 14 | LOR(%) | 100.0 | S/MH(C90/270) | 1.25 |
| RATED VOLTAGE(V) | 48 | TOTAL FLUX(lm) | 953.85 | h UP,DN(C0-180) | 16.6,34.0 |
| NOMINAL FLUX(lm) | 953.854 | CIE CLASS | SEMI-D. | h UP,DN(C180-360) | 15.9,33.5 |
| LAMPS INSIDE | 1 | h up(%) | 32.5 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 48 | h down(%) | 67.5 | CIBSE SHR MAX | 1.55 |

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):194.0 DEG

## C0 PLANE ISOLUX DIAGRAM (UNIT:lx)




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

# ZONAL FLUX DIAGRAM

**ZONAL FLUX DIAGRAM:**

| g | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | g | F zone | F total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 124.8 | 122.2 | 121.0 | 124.3 | 125.8 | 124.4 | 121.2 | 122.3 | 0- 10 | 11.76 | 11.76 | 1.23,1.23 |
| 20 | 131.2 | 121.2 | 114.2 | 124.5 | 131.0 | 124.6 | 114.4 | 121.4 | 10- 20 | 34.90 | 46.66 | 4.89,4.89 |
| 30 | 137.5 | 120.0 | 103.3 | 122.8 | 135.8 | 122.7 | 103.7 | 120.2 | 20- 30 | 56.41 | 103.1 | 10.8,10.8 |
| 40 | 142.1 | 117.1 | 88.97 | 118.8 | 138.8 | 118.3 | 89.40 | 117.8 | 30- 40 | 74.55 | 177.6 | 18.6,18.6 |
| 50 | 144.9 | 112.3 | 71.89 | 112.9 | 139.9 | 112.0 | 72.36 | 113.5 | 40- 50 | 87.70 | 265.3 | 27.8,27.8 |
| 60 | 146.8 | 106.3 | 52.82 | 106.2 | 139.9 | 104.6 | 53.15 | 108.2 | 50- 60 | 95.19 | 360.5 | 37.8,37.8 |
| 70 | 147.6 | 100.6 | 32.82 | 99.47 | 138.9 | 97.46 | 32.91 | 103.0 | 60- 70 | 97.40 | 457.9 | 48,48 |
| 80 | 147.2 | 95.82 | 14.10 | 93.33 | 136.6 | 91.07 | 13.91 | 98.81 | 70- 80 | 95.35 | 553.3 | 58,58 |
| 90 | 144.1 | 91.62 | 1.839 | 87.18 | 132.0 | 84.76 | 1.595 | 94.97 | 80- 90 | 90.41 | 643.7 | 67.5,67.5 |
| 100 | 137.0 | 86.07 | 0.9553 | 77.66 | 123.2 | 75.00 | 1.164 | 82.26 | 90-100 | 84.31 | 728.0 | 76.3,76.3 |
| 110 | 122.7 | 74.24 | 1.028 | 64.62 | 107.0 | 61.86 | 2.854 | 75.87 | 100-110 | 72.49 | 800.5 | 83.9,83.9 |
| 120 | 105.6 | 55.80 | 1.589 | 50.03 | 89.18 | 46.01 | 4.458 | 63.42 | 110-120 | 57.79 | 858.3 | 90,90 |
| 130 | 86.50 | 40.69 | 1.782 | 37.47 | 69.85 | 34.92 | 5.917 | 49.86 | 120-130 | 41.65 | 899.9 | 94.3,94.3 |
| 140 | 66.49 | 28.73 | 1.803 | 25.26 | 50.61 | 23.38 | 7.116 | 38.15 | 130-140 | 27.69 | 927.6 | 97.2,97.2 |
| 150 | 43.71 | 17.01 | 1.896 | 13.61 | 31.84 | 12.76 | 7.976 | 28.08 | 140-150 | 15.76 | 943.4 | 98.9,98.9 |
| 160 | 27.25 | 9.815 | 3.048 | 6.786 | 14.97 | 6.373 | 8.544 | 19.54 | 150-160 | 7.349 | 950.7 | 99.7,99.7 |
| 170 | 4.238 | 6.370 | 5.722 | 3.373 | 4.054 | 3.515 | 8.563 | 12.53 | 160-170 | 2.616 | 953.3 | 99.9,99.9 |
| 180 | 2.224 | 5.344 | 8.643 | 7.461 | 2.191 | 5.818 | 7.989 | 7.474 | 170-180 | 0.5350 | 953.9 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

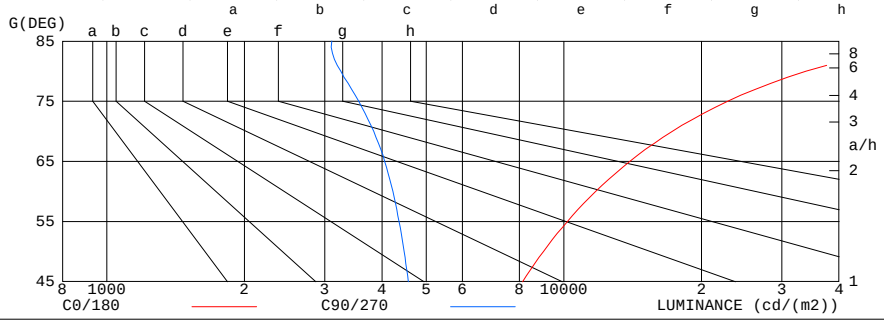
g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

# LUMINANCE LIMITATION CURVES

| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
|---|---|---|
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |

**LUMINANCE LIMITATION CURVES**

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |




| LUMINANCE cd/(m2) | | |
|---|---|---|
| G(DEG) | C0/180 | C90/270 |
| 85 | 66977 | 3109 |
| 80 | 33915 | 3249 |
| 75 | 22826 | 3557 |
| 70 | 17268 | 3838 |
| 65 | 13947 | 4057 |
| 60 | 11742 | 4225 |
| 55 | 10181 | 4360 |
| 50 | 9020 | 4474 |
| 45 | 8125 | 4567 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

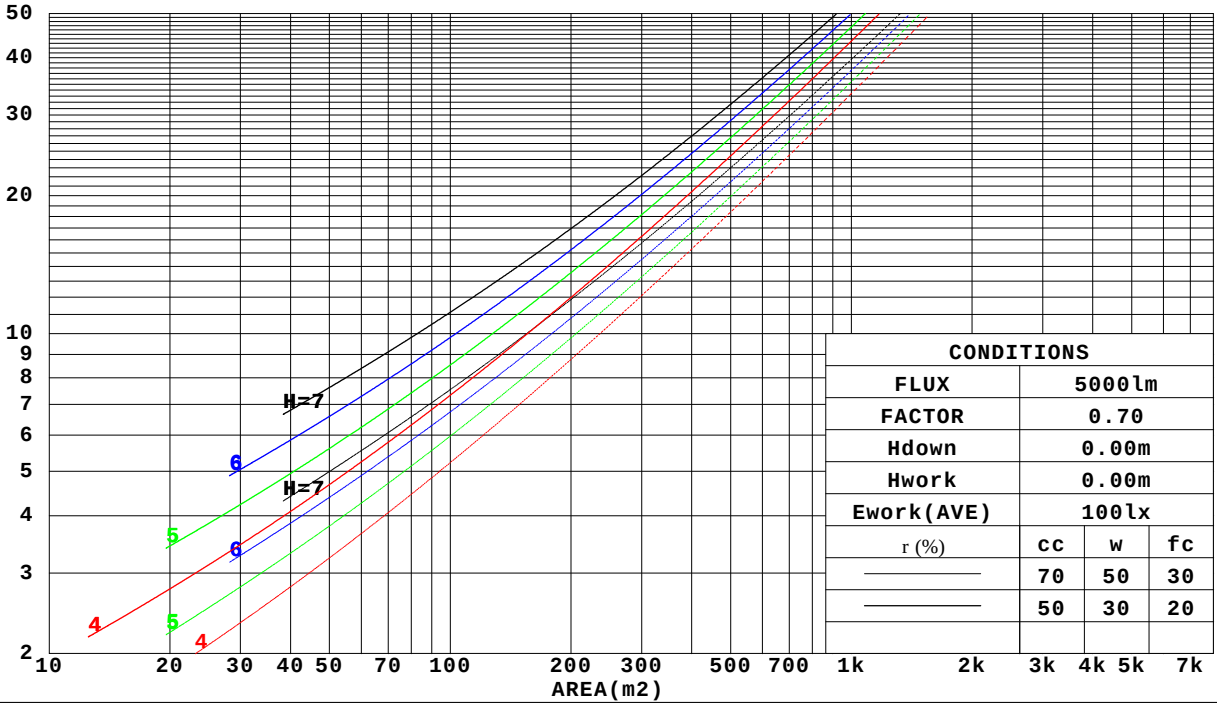
# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---|---|
| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |

| rcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| rw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| rfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | Coefficients of Utilization(CU) | | | | | | | | | | | | |
| 0.0 | 1.11 | 1.11 | 1.11 | 1.05 | 1.05 | 1.05 | .93 | .93 | .93 | .82 | .82 | .82 | .72 | .72 | .72 | .67 |
| 1.0 | .91 | .85 | .80 | .85 | .80 | .76 | .75 | .71 | .67 | .65 | .62 | .59 | .57 | .54 | .52 | .47 |
| 2.0 | .77 | .69 | .62 | .72 | .65 | .59 | .63 | .57 | .52 | .55 | .50 | .46 | .47 | .44 | .41 | .36 |
| 3.0 | .66 | .57 | .50 | .62 | .54 | .47 | .54 | .48 | .42 | .47 | .42 | .37 | .41 | .36 | .33 | .29 |
| 4.0 | .58 | .48 | .41 | .54 | .46 | .39 | .48 | .40 | .35 | .41 | .36 | .31 | .36 | .31 | .27 | .24 |
| 5.0 | .51 | .41 | .34 | .48 | .39 | .33 | .42 | .35 | .29 | .37 | .31 | .26 | .32 | .27 | .23 | .20 |
| 6.0 | .46 | .36 | .29 | .43 | .34 | .28 | .38 | .31 | .25 | .33 | .27 | .22 | .28 | .24 | .20 | .17 |
| 7.0 | .41 | .32 | .25 | .39 | .30 | .24 | .34 | .27 | .22 | .30 | .24 | .20 | .26 | .21 | .17 | .15 |
| 8.0 | .37 | .28 | .22 | .35 | .27 | .21 | .31 | .24 | .19 | .27 | .21 | .17 | .24 | .19 | .15 | .13 |
| 9.0 | .34 | .25 | .20 | .32 | .24 | .19 | .28 | .22 | .17 | .25 | .19 | .15 | .22 | .17 | .14 | .11 |
| 10.0 | .31 | .23 | .18 | .29 | .22 | .17 | .26 | .20 | .15 | .23 | .18 | .14 | .20 | .16 | .12 | .10 |

LAMPS

LUMINAIRE BUDGETARY DIAGRAM




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

# WEC AND CCEC

| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
|---|---|---|
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding 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 Coeffcients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .411 | .234 | .074 | .394 | .225 | .071 | .362 | .208 | .066 | .333 | .192 | .062 | .305 | .177 | .057 | |
| 2.0 | .347 | .190 | .058 | .331 | .182 | .056 | .302 | .168 | .052 | .275 | .154 | .048 | .250 | .141 | .045 | |
| 3.0 | .303 | .161 | .048 | .289 | .155 | .047 | .263 | .142 | .043 | .238 | .130 | .040 | .215 | .119 | .037 | |
| 4.0 | .271 | .141 | .041 | .258 | .135 | .040 | .233 | .124 | .037 | .211 | .113 | .034 | .190 | .103 | .031 | |
| 5.0 | .245 | .125 | .036 | .233 | .120 | .035 | .211 | .110 | .032 | .190 | .100 | .030 | .170 | .091 | .027 | |
| 6.0 | .223 | .112 | .032 | .212 | .107 | .031 | .192 | .098 | .029 | .173 | .090 | .026 | .155 | .082 | .024 | |
| 7.0 | .205 | .101 | .029 | .195 | .097 | .028 | .176 | .089 | .026 | .159 | .081 | .024 | .142 | .074 | .022 | |
| 8.0 | .190 | .093 | .026 | .181 | .089 | .025 | .163 | .081 | .023 | .147 | .074 | .021 | .131 | .067 | .020 | |
| 9.0 | .176 | .085 | .024 | .168 | .082 | .023 | .152 | .075 | .021 | .137 | .068 | .020 | .122 | .062 | .018 | |
| 10.0 | .165 | .079 | .022 | .157 | .076 | .021 | .142 | .069 | .020 | .128 | .063 | .018 | .114 | .057 | .016 | |

| 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 | .438 | .438 | .438 | .375 | .375 | .375 | .256 | .256 | .256 | .147 | .147 | .147 | .047 | .047 | .047 | |
| 1.0 | .437 | .405 | .376 | .374 | .348 | .324 | .256 | .239 | .224 | .147 | .138 | .130 | .047 | .045 | .042 | |
| 2.0 | .431 | .383 | .343 | .369 | .330 | .296 | .253 | .228 | .207 | .146 | .133 | .121 | .047 | .043 | .039 | |
| 3.0 | .424 | .367 | .322 | .363 | .317 | .280 | .249 | .220 | .196 | .144 | .129 | .116 | .046 | .042 | .038 | |
| 4.0 | .416 | .355 | .309 | .357 | .307 | .268 | .246 | .214 | .189 | .142 | .125 | .112 | .046 | .041 | .037 | |
| 5.0 | .408 | .346 | .300 | .351 | .299 | .261 | .242 | .209 | .184 | .140 | .123 | .109 | .045 | .040 | .036 | |
| 6.0 | .401 | .338 | .293 | .345 | .293 | .255 | .238 | .205 | .181 | .138 | .121 | .107 | .045 | .039 | .035 | |
| 7.0 | .394 | .332 | .289 | .339 | .288 | .251 | .234 | .202 | .178 | .136 | .119 | .106 | .044 | .039 | .035 | |
| 8.0 | .387 | .327 | .285 | .333 | .283 | .248 | .231 | .199 | .176 | .134 | .117 | .105 | .043 | .038 | .035 | |
| 9.0 | .381 | .322 | .282 | .328 | .279 | .246 | .227 | .196 | .175 | .132 | .116 | .104 | .043 | .038 | .035 | |
| 10.0 | .375 | .318 | .280 | .323 | .276 | .244 | .224 | .194 | .173 | .131 | .115 | .104 | .042 | .038 | .034 | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

# UGR(Unified Glare Rating) Table

| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
|---|---|---|
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding 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 | 19.6 | 20.9 | 20.3 | 21.6 | 22.4 | 16.1 | 17.3 | 16.8 | 18.0 | 18.9 |
| | 3H | 23.0 | 24.1 | 23.7 | 24.8 | 25.7 | 17.7 | 18.9 | 18.5 | 19.6 | 20.5 |
| | 4H | 24.9 | 26.0 | 25.6 | 26.7 | 27.6 | 18.5 | 19.5 | 19.2 | 20.3 | 21.2 |
| | 6H | 27.0 | 28.0 | 27.8 | 28.8 | 29.7 | 19.0 | 20.0 | 19.7 | 20.8 | 21.7 |
| | 8H | 28.2 | 29.2 | 29.0 | 30.0 | 30.9 | 19.2 | 20.2 | 20.0 | 21.0 | 21.9 |
| | 12H | 29.6 | 30.5 | 30.3 | 31.3 | 32.3 | 19.3 | 20.3 | 20.1 | 21.1 | 22.0 |
| 4H | 2H | 20.2 | 21.2 | 20.9 | 22.0 | 22.9 | 17.8 | 18.9 | 18.5 | 19.6 | 20.5 |
| | 3H | 23.7 | 24.7 | 24.5 | 25.4 | 26.4 | 19.8 | 20.8 | 20.6 | 21.6 | 22.5 |
| | 4H | 25.8 | 26.7 | 26.6 | 27.5 | 28.4 | 20.8 | 21.7 | 21.6 | 22.5 | 23.5 |
| | 6H | 28.1 | 28.9 | 29.0 | 29.8 | 30.8 | 21.6 | 22.4 | 22.4 | 23.2 | 24.3 |
| | 8H | 29.5 | 30.2 | 30.3 | 31.0 | 32.1 | 22.0 | 22.7 | 22.8 | 23.5 | 24.6 |
| | 12H | 31.0 | 31.7 | 31.8 | 32.5 | 33.5 | 22.2 | 22.9 | 23.1 | 23.7 | 24.8 |
| 8H | 4H | 26.1 | 26.9 | 27.0 | 27.7 | 28.7 | 22.5 | 23.2 | 23.3 | 24.1 | 25.1 |
| | 6H | 28.8 | 29.4 | 29.6 | 30.3 | 31.3 | 23.8 | 24.5 | 24.7 | 25.3 | 26.4 |
| | 8H | 30.3 | 30.9 | 31.2 | 31.7 | 32.8 | 24.5 | 25.0 | 25.3 | 25.9 | 27.0 |
| | 12H | 32.1 | 32.6 | 32.9 | 33.5 | 34.5 | 25.0 | 25.5 | 25.9 | 26.4 | 27.5 |
| 12H | 4H | 26.2 | 26.8 | 27.0 | 27.7 | 28.7 | 23.1 | 23.7 | 23.9 | 24.6 | 25.6 |
| | 6H | 28.9 | 29.5 | 29.8 | 30.3 | 31.4 | 24.7 | 25.3 | 25.6 | 26.2 | 27.2 |
| | 8H | 30.5 | 31.0 | 31.4 | 31.9 | 33.0 | 25.6 | 26.1 | 26.5 | 27.0 | 28.1 |
| 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 / - 0.3 | | | | |
| 2.0H | | + 0.3 / - 0.3 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117, 953.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

# UTILIZATION FACTORS TABLE

| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
|---|---|---|
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |

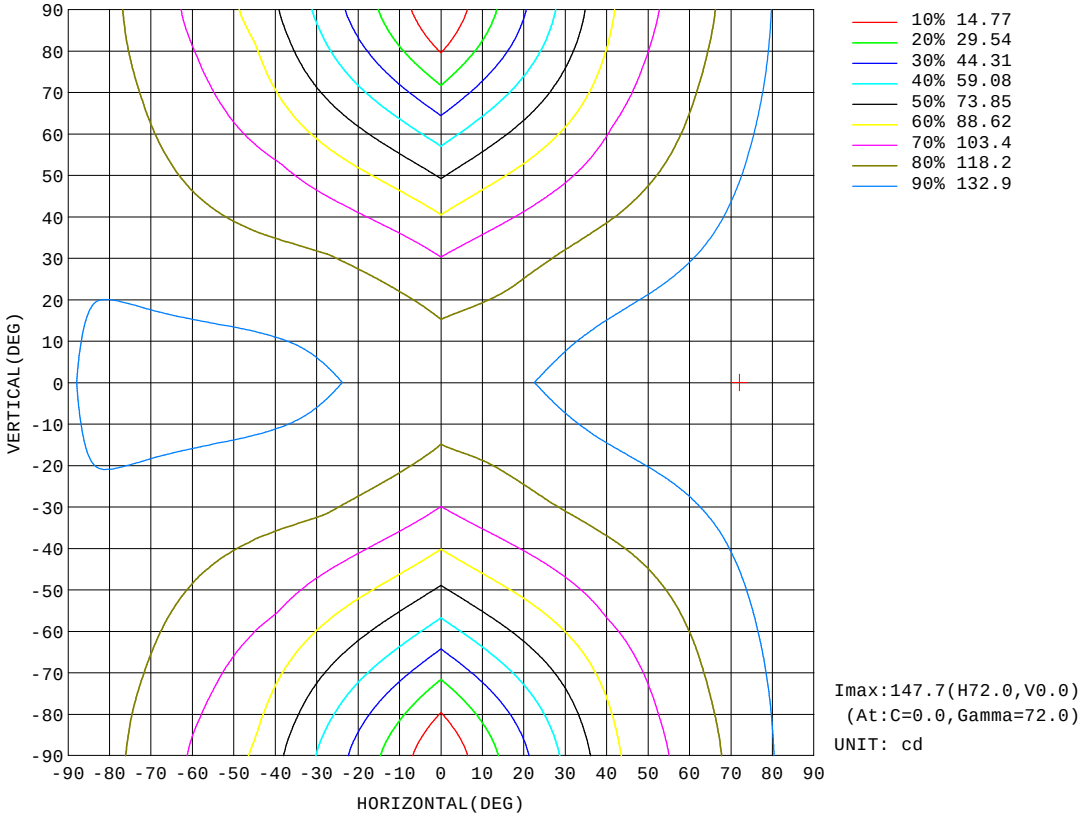
| REFLECTANCE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 41 | 29 | 21 | 40 | 28 | 21 | 37 | 27 | 20 | 13 |
| 0.80 | 50 | 36 | 28 | 48 | 35 | 27 | 44 | 33 | 26 | 18 |
| 1.00 | 58 | 44 | 35 | 55 | 42 | 34 | 50 | 42 | 32 | 22 |
| 1.25 | 64 | 51 | 41 | 61 | 49 | 40 | 56 | 45 | 38 | 26 |
| 1.50 | 70 | 56 | 47 | 66 | 54 | 45 | 60 | 50 | 42 | 30 |
| 2.00 | 77 | 65 | 56 | 73 | 62 | 54 | 66 | 57 | 49 | 35 |
| 2.50 | 82 | 71 | 62 | 78 | 67 | 59 | 69 | 61 | 54 | 38 |
| 3.00 | 86 | 75 | 67 | 81 | 72 | 64 | 72 | 65 | 59 | 42 |
| 4.00 | 91 | 82 | 74 | 86 | 78 | 71 | 76 | 70 | 64 | 46 |
| 5.00 | 94 | 86 | 80 | 89 | 82 | 76 | 79 | 73 | 68 | 49 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | Suspended | | | | | SHRNOM = 1.25 | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

## ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |



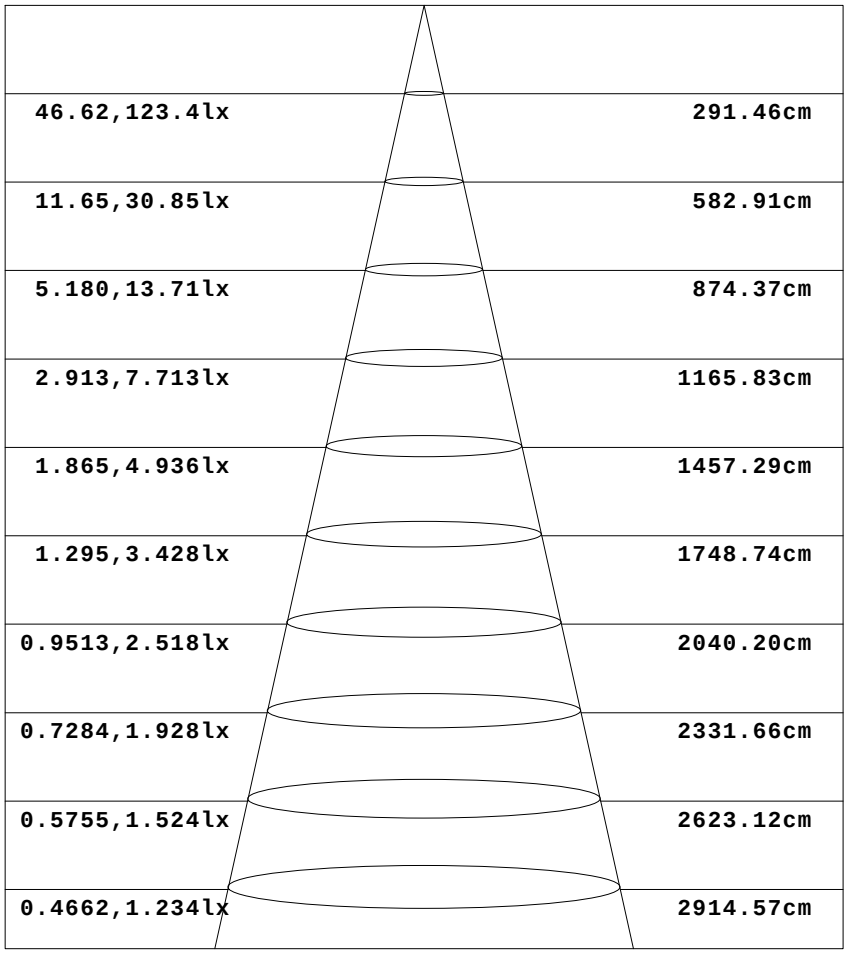

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

## AAI Figure

| | | |
|---|---|---|
| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |

Flux out:321.9 lm



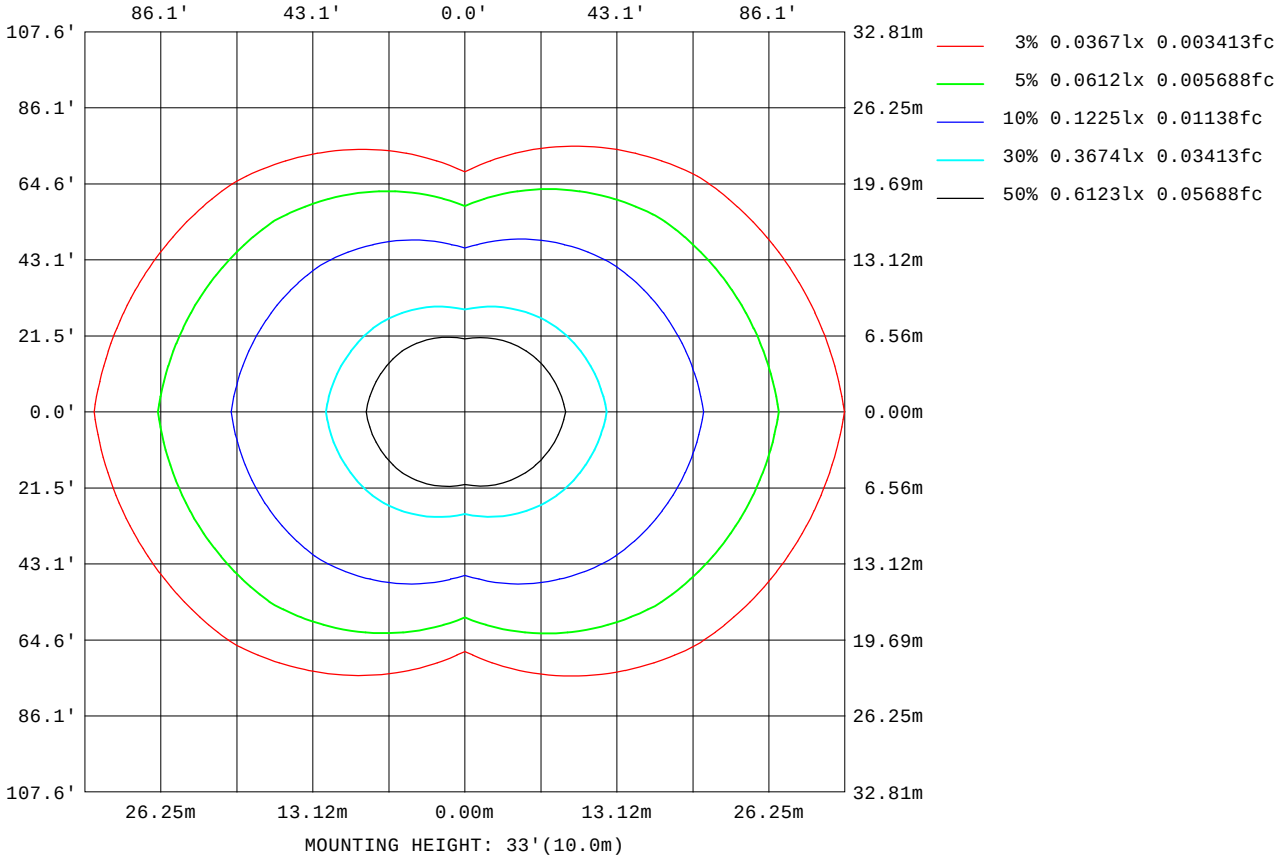

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

## ISOLUX DIAGRAM

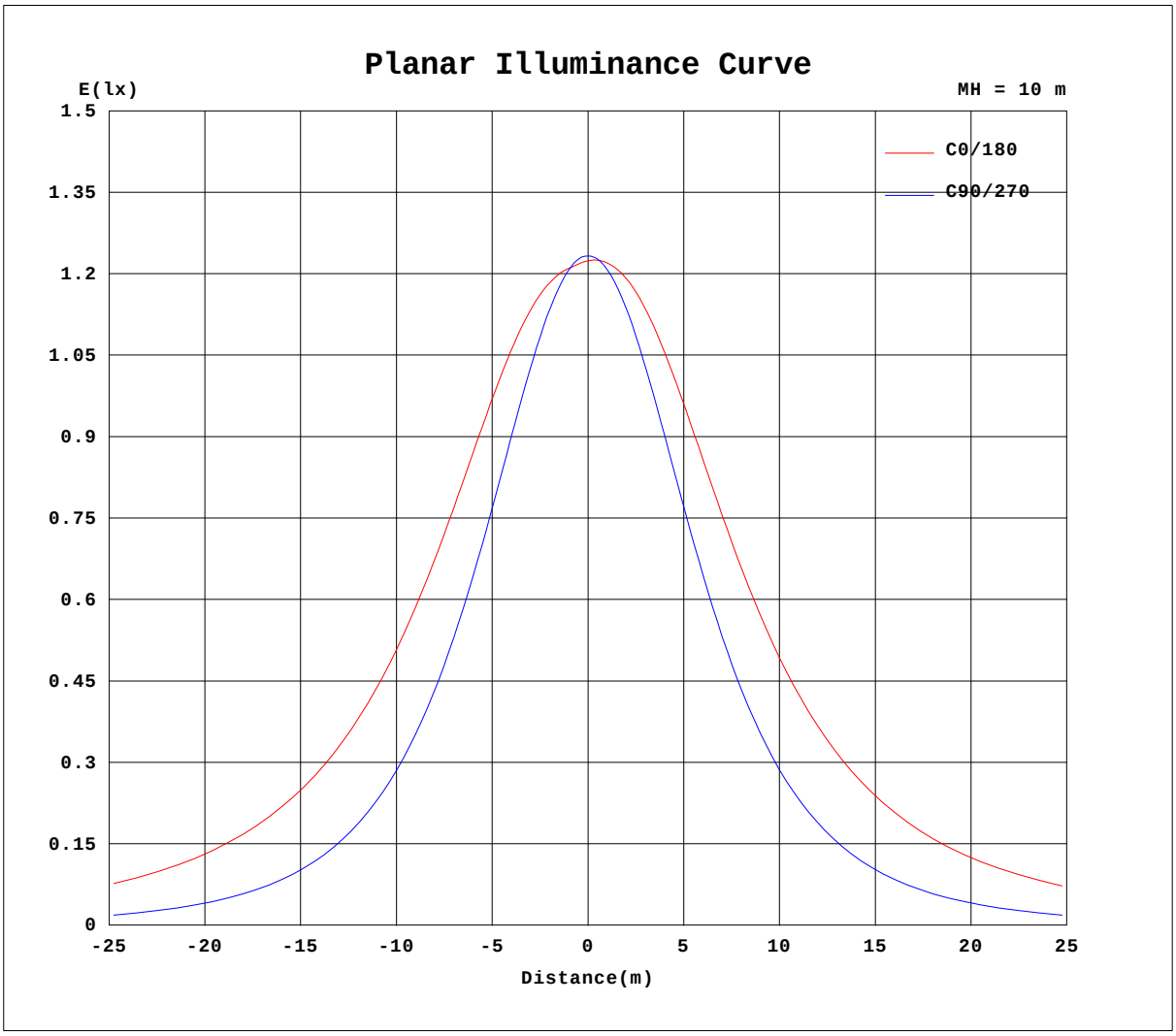
| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
|---|---|---|
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
| Test:U:48.00V I:0.2960A P:14.20W PF:1.000 Freq:49.99Hz Lamp Flux:953.854x1 lm | | |
| NAME: VOTRNR30NJ1000 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: 1000*25*25mm | SERIAL No.: |
| MFR.: | SUR.:1000*25mm | Shielding Angle: |

Table--1 UNIT: cd

| γ (DEG) \ C(DEG) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 122 | 123 | 123 | 123 | 122 | 123 | 123 | 123 | | | | | | | | | | | |
| 5 | 123 | 123 | 123 | 124 | 124 | 124 | 123 | 123 | | | | | | | | | | | |
| 10 | 125 | 122 | 121 | 124 | 126 | 124 | 121 | 122 | | | | | | | | | | | |
| 15 | 128 | 122 | 118 | 125 | 128 | 125 | 118 | 122 | | | | | | | | | | | |
| 20 | 131 | 121 | 114 | 125 | 131 | 125 | 114 | 121 | | | | | | | | | | | |
| 25 | 135 | 121 | 109 | 124 | 134 | 124 | 110 | 121 | | | | | | | | | | | |
| 30 | 138 | 120 | 103 | 123 | 136 | 123 | 104 | 120 | | | | | | | | | | | |
| 35 | 140 | 119 | 96.5 | 121 | 138 | 121 | 96.9 | 119 | | | | | | | | | | | |
| 40 | 142 | 117 | 89.0 | 119 | 139 | 118 | 89.4 | 118 | | | | | | | | | | | |
| 45 | 144 | 115 | 80.7 | 116 | 140 | 115 | 81.2 | 116 | | | | | | | | | | | |
| 50 | 145 | 112 | 71.9 | 113 | 140 | 112 | 72.4 | 114 | | | | | | | | | | | |
| 55 | 146 | 109 | 62.5 | 110 | 140 | 108 | 62.9 | 111 | | | | | | | | | | | |
| 60 | 147 | 106 | 52.8 | 106 | 140 | 105 | 53.2 | 108 | | | | | | | | | | | |
| 65 | 147 | 103 | 42.9 | 103 | 140 | 101 | 43.0 | 106 | | | | | | | | | | | |
| 70 | 148 | 101 | 32.8 | 99.5 | 139 | 97.5 | 32.9 | 103 | | | | | | | | | | | |
| 75 | 148 | 98.1 | 23.0 | 96.3 | 138 | 94.2 | 23.1 | 101 | | | | | | | | | | | |
| 80 | 147 | 95.8 | 14.1 | 93.3 | 137 | 91.1 | 13.9 | 98.8 | | | | | | | | | | | |
| 85 | 146 | 93.7 | 6.77 | 90.2 | 135 | 87.9 | 6.51 | 96.8 | | | | | | | | | | | |
| 90 | 144 | 91.6 | 1.84 | 87.2 | 132 | 84.8 | 1.59 | 95.0 | | | | | | | | | | | |
| 95 | 142 | 90.0 | 1.01 | 84.3 | 130 | 81.8 | 0.94 | 90.7 | | | | | | | | | | | |
| 100 | 137 | 86.1 | 0.96 | 77.7 | 123 | 75.0 | 1.16 | 82.3 | | | | | | | | | | | |
| 105 | 130 | 81.5 | 0.96 | 71.3 | 115 | 68.3 | 2.01 | 80.4 | | | | | | | | | | | |
| 110 | 123 | 74.2 | 1.03 | 64.6 | 107 | 61.9 | 2.85 | 75.9 | | | | | | | | | | | |
| 115 | 114 | 66.9 | 1.33 | 57.4 | 98.4 | 53.5 | 3.69 | 69.8 | | | | | | | | | | | |
| 120 | 106 | 55.8 | 1.59 | 50.0 | 89.2 | 46.0 | 4.46 | 63.4 | | | | | | | | | | | |
| 125 | 96.3 | 47.0 | 1.71 | 43.4 | 79.6 | 40.7 | 5.20 | 56.5 | | | | | | | | | | | |
| 130 | 86.5 | 40.7 | 1.78 | 37.5 | 69.9 | 34.9 | 5.92 | 49.9 | | | | | | | | | | | |
| 135 | 76.6 | 35.2 | 1.80 | 31.3 | 60.2 | 29.1 | 6.56 | 44.1 | | | | | | | | | | | |
| 140 | 66.5 | 28.7 | 1.80 | 25.3 | 50.6 | 23.4 | 7.12 | 38.2 | | | | | | | | | | | |
| 145 | 56.2 | 22.5 | 1.82 | 19.2 | 41.1 | 17.9 | 7.59 | 32.8 | | | | | | | | | | | |
| 150 | 43.7 | 17.0 | 1.90 | 13.6 | 31.8 | 12.8 | 7.98 | 28.1 | | | | | | | | | | | |
| 155 | 35.5 | 12.8 | 2.17 | 9.77 | 23.1 | 8.91 | 8.29 | 23.8 | | | | | | | | | | | |
| 160 | 27.3 | 9.81 | 3.05 | 6.79 | 15.0 | 6.37 | 8.54 | 19.5 | | | | | | | | | | | |
| 165 | 18.9 | 7.51 | 4.28 | 4.63 | 7.70 | 4.62 | 8.61 | 15.6 | | | | | | | | | | | |
| 170 | 4.24 | 6.37 | 5.72 | 3.37 | 4.05 | 3.52 | 8.56 | 12.5 | | | | | | | | | | | |
| 175 | 2.55 | 5.74 | 7.25 | 3.58 | 2.43 | 3.01 | 8.37 | 9.86 | | | | | | | | | | | |
| 180 | 2.22 | 5.34 | 8.64 | 7.46 | 2.19 | 5.82 | 7.99 | 7.47 | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks: