

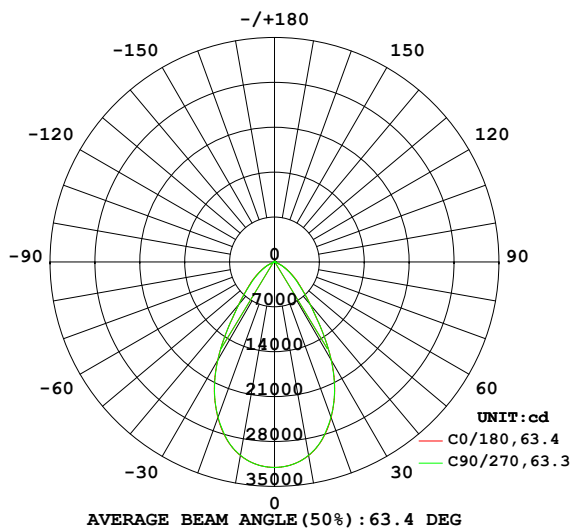
## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINAIRE PHOTOMETRIC TEST REPORT

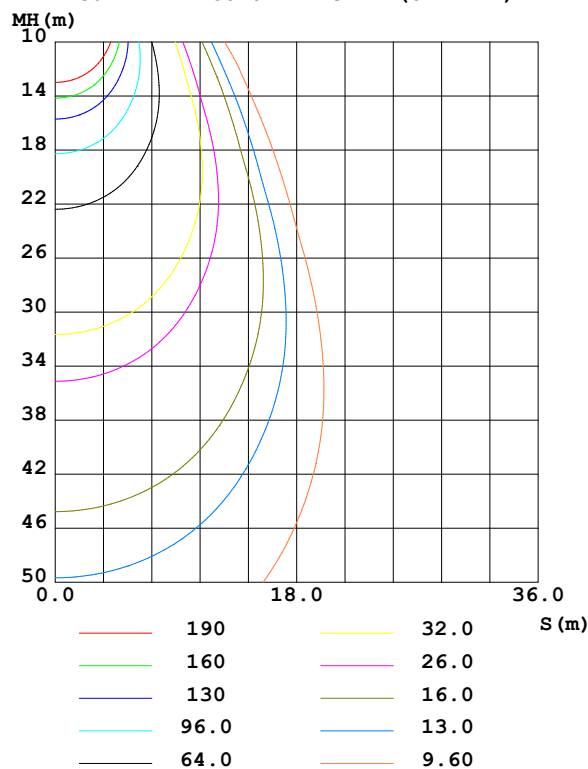
|  |       |                  |
|--|-------|------------------|
| Test:U:230.0V I:0.885A P:199.9W PF:0.982 Freq:50.01Hz  |       |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37442.4x1 lm |       |                  |
| NAME: HB68-200H-5070-H00193+H00D02                     | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 187.34 lm/W |        |                    |          |
|-------------------|---------|-----------------------------------|--------|--------------------|----------|
| MODEL             | /       | I <sub>max</sub> (cd)             | 32048  | S/MH (C0/180)      | 0.95     |
| NOMINAL POWER (W) | /       | LOR (%)                           | 100.0  | S/MH (C90/270)     | 0.95     |
| RATED VOLTAGE (V) | /       | TOTAL FLUX (lm)                   | 37442  | η UP,DN (C0-180)   | 0.2,49.8 |
| NOMINAL FLUX (lm) | 37442.4 | CIE CLASS                         | DIRECT | η UP,DN (C180-360) | 0.2,49.8 |
| LAMPS INSIDE      | 1       | η up (%)                          | 0.3    | CIBSE SHR NOM      | 0.75     |
| TEST VOLTAGE (V)  | /       | η down (%)                        | 99.7   | CIBSE SHR MAX      | 0.95     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:ZZX  
Test Date:2023-07-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                       | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10       | 3064                     | 3065   | 3060   | 3065   | 3064   | 3065   | 3060   | 3065   | 0- 10    | 2993        | 2993         | 7.99,7.99 |
| 20       | 2582                     | 2572   | 2575   | 2572   | 2582   | 2572   | 2575   | 2572   | 10- 20   | 8000        | 10993        | 29.4,29.4 |
| 30       | 1774                     | 1764   | 1768   | 1764   | 1774   | 1764   | 1768   | 1764   | 20- 30   | 10068       | 21061        | 56.2,56.2 |
| 40       | 872.8                    | 855.8  | 864.2  | 855.8  | 872.8  | 855.8  | 864.2  | 855.8  | 30- 40   | 7908        | 28968        | 77.4,77.4 |
| 50       | 449.7                    | 439.0  | 431.8  | 439.0  | 449.7  | 439.0  | 431.8  | 439.0  | 40- 50   | 4688        | 33656        | 89.9,89.9 |
| 60       | 192.9                    | 188.4  | 184.4  | 188.4  | 192.9  | 188.4  | 184.4  | 188.4  | 50- 60   | 2642        | 36298        | 96.9,96.9 |
| 70       | 25.94                    | 26.08  | 26.32  | 26.08  | 25.94  | 26.08  | 26.32  | 26.08  | 60- 70   | 915.9       | 37214        | 99.4,99.4 |
| 80       | 2.927                    | 3.080  | 3.147  | 3.080  | 2.927  | 3.080  | 3.147  | 3.080  | 70- 80   | 96.40       | 37311        | 99.6,99.6 |
| 90       | 0.0524                   | 0.0667 | 0.0909 | 0.0667 | 0.0524 | 0.0667 | 0.0909 | 0.0667 | 80- 90   | 14.94       | 37325        | 99.7,99.7 |
| 100      | 0.1335                   | 0.1345 | 0.1360 | 0.1345 | 0.1335 | 0.1345 | 0.1360 | 0.1345 | 90-100   | 0.7246      | 37326        | 99.7,99.7 |
| 110      | 0.4041                   | 0.4026 | 0.4079 | 0.4026 | 0.4041 | 0.4026 | 0.4079 | 0.4026 | 100-110  | 2.638       | 37329        | 99.7,99.7 |
| 120      | 0.8999                   | 0.9149 | 0.9339 | 0.9149 | 0.8999 | 0.9149 | 0.9339 | 0.9149 | 110-120  | 6.108       | 37335        | 99.7,99.7 |
| 130      | 1.925                    | 1.962  | 1.992  | 1.962  | 1.925  | 1.962  | 1.992  | 1.962  | 120-130  | 12.47       | 37347        | 99.7,99.7 |
| 140      | 3.275                    | 3.308  | 3.346  | 3.308  | 3.275  | 3.308  | 3.346  | 3.308  | 130-140  | 20.18       | 37368        | 99.8,99.8 |
| 150      | 4.667                    | 4.684  | 4.710  | 4.684  | 4.667  | 4.684  | 4.710  | 4.684  | 140-150  | 24.88       | 37392        | 99.9,99.9 |
| 160      | 5.752                    | 5.760  | 5.785  | 5.760  | 5.752  | 5.760  | 5.785  | 5.760  | 150-160  | 24.34       | 37417        | 99.9,99.9 |
| 170      | 7.499                    | 7.496  | 7.523  | 7.496  | 7.499  | 7.496  | 7.523  | 7.496  | 160-170  | 17.95       | 37435        | 100,100   |
| 180      | 8.469                    | 8.481  | 8.510  | 8.481  | 8.469  | 8.481  | 8.510  | 8.481  | 170-180  | 7.711       | 37442        | 100,100   |
| DEG      | LUMINOUS INTENSITY:X10cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |

Conical surface Flux(90deg): 31617 lm

%lum = 84.4%

%lamp = 84.4%

Conical surface Flux(130deg): 36972 lm

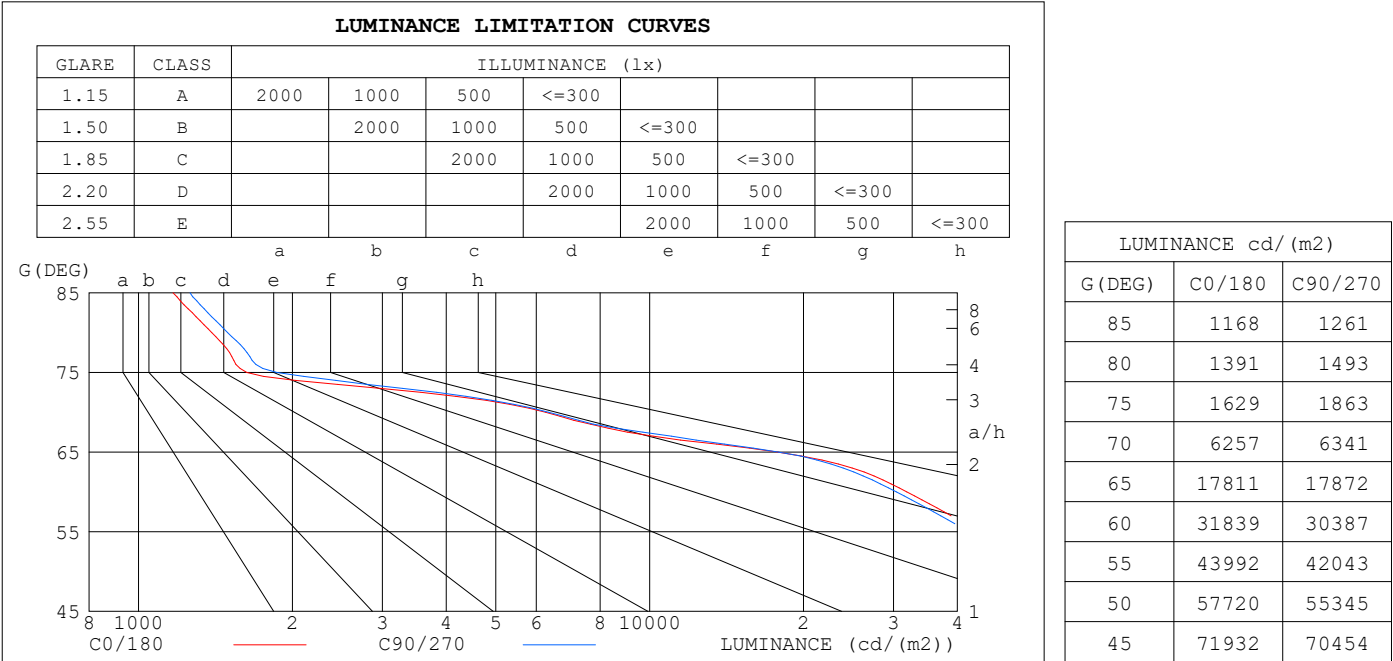
%lum = 98.7%

%lamp = 98.7%

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:ZZX  
Test Date:2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

LUMINANCE LIMITATION CURVES



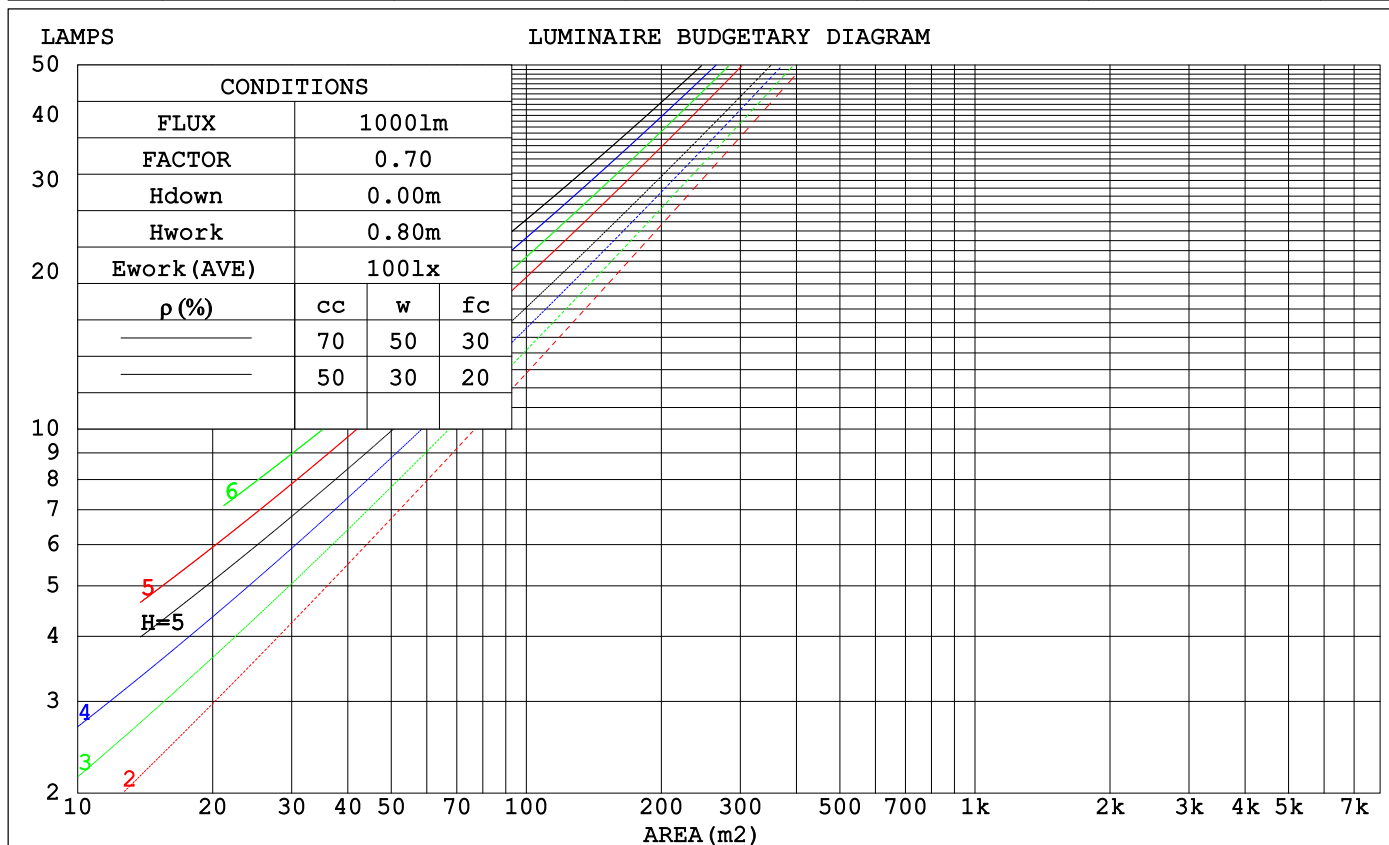
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:ZZX  
Test Date:2023-07-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| $\rho_{cc}$ | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$    | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$ | 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         | 1.09   | 1.07 | 1.04 | 1.07 | 1.05 | 1.02 | 1.03 | 1.01 | .99  | .99  | .98  | .96  | .96  | .94  | .93  | .91 |
| 2.0         | 1.00   | .96  | .92  | .98  | .94  | .91  | .95  | .92  | .89  | .92  | .89  | .87  | .89  | .87  | .85  | .83 |
| 3.0         | .92  | .86  | .82  | .90  | .85  | .81  | .88  | .83  | .80  | .85  | .81  | .78  | .83  | .80  | .77  | .75 |
| 4.0         | .85  | .78  | .73  | .83  | .77  | .73  | .81  | .76  | .72  | .79  | .75  | .71  | .77  | .73  | .70  | .68 |
| 5.0         | .78  | .71  | .66  | .77  | .71  | .66  | .75  | .70  | .65  | .73  | .69  | .65  | .72  | .68  | .64  | .63 |
| 6.0         | .72  | .66  | .61  | .72  | .65  | .60  | .70  | .64  | .60  | .68  | .63  | .59  | .67  | .63  | .59  | .57 |
| 7.0         | .67  | .60  | .56  | .67  | .60  | .55  | .65  | .59  | .55  | .64  | .59  | .55  | .63  | .58  | .54  | .53 |
| 8.0         | .63  | .56  | .51  | .62  | .56  | .51  | .61  | .55  | .51  | .60  | .55  | .51  | .59  | .54  | .50  | .49 |
| 9.0         | .59  | .52  | .48  | .58  | .52  | .48  | .57  | .51  | .47  | .56  | .51  | .47  | .55  | .50  | .47  | .45 |
| 10.0        | .55  | .49  | .44  | .55  | .48  | .44  | .54  | .48  | .44  | .53  | .48  | .44  | .52  | .47  | .44  | .42 |



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ZZK  
 Test Date: 2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
 Humidity: 65.0%  
 Test Distance: 26.000m [K=0.4556]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## WEC AND CCEC

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                              |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                              |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |
| 1.0         | .203                  | .115 | .037 | .196 | .112 | .036 | .183                             | .105 | .034 | .171 | .099 | .032 | .160 | .093 | .030 |   |
| 2.0         | .197                  | .108 | .033 | .191 | .105 | .032 | .180                             | .100 | .031 | .170 | .096 | .030 | .161 | .091 | .029 |   |
| 3.0         | .189                  | .101 | .030 | .184 | .098 | .030 | .174                             | .094 | .029 | .165 | .091 | .028 | .157 | .087 | .027 |   |
| 4.0         | .180                  | .093 | .027 | .175 | .092 | .027 | .167                             | .089 | .026 | .159 | .086 | .026 | .152 | .083 | .025 |   |
| 5.0         | .171                  | .087 | .025 | .167 | .086 | .025 | .160                             | .083 | .024 | .153 | .081 | .024 | .146 | .078 | .023 |   |
| 6.0         | .162                  | .081 | .023 | .159 | .080 | .023 | .152                             | .078 | .023 | .146 | .076 | .022 | .140 | .074 | .022 |   |
| 7.0         | .154                  | .076 | .022 | .151 | .075 | .021 | .145                             | .073 | .021 | .140 | .072 | .021 | .135 | .070 | .021 |   |
| 8.0         | .147                  | .072 | .020 | .144 | .071 | .020 | .139                             | .069 | .020 | .134 | .068 | .020 | .129 | .066 | .019 |   |
| 9.0         | .140                  | .068 | .019 | .137 | .067 | .019 | .133                             | .066 | .019 | .128 | .064 | .018 | .124 | .063 | .018 |   |
| 10.0        | .133                  | .064 | .018 | .131 | .063 | .018 | .127                             | .062 | .017 | .123 | .061 | .017 | .119 | .060 | .017 |   |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%   |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|--|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%   |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         | .193                  | .193 | .193 | .165 | .165 | .165 | .112  | .112 | .112 | .065 | .065 | .065 | .021 | .021 | .021 |   |  |
| 1.0         | .175                  | .159 | .145 | .150 | .137 | .125 | .103  | .094 | .086 | .059 | .054 | .050 | .019 | .018 | .016 |   |  |
| 2.0         | .162                  | .135 | .112 | .139 | .116 | .097 | .095  | .080 | .067 | .055 | .047 | .040 | .018 | .015 | .013 |   |  |
| 3.0         | .151                  | .116 | .088 | .130 | .100 | .076 | .089  | .070 | .054 | .051 | .041 | .032 | .017 | .013 | .010 |   |  |
| 4.0         | .142                  | .102 | .071 | .122 | .088 | .062 | .084  | .061 | .043 | .049 | .036 | .026 | .016 | .012 | .008 |   |  |
| 5.0         | .134                  | .091 | .058 | .115 | .078 | .051 | .079  | .055 | .036 | .046 | .032 | .021 | .015 | .010 | .007 |   |  |
| 6.0         | .127                  | .082 | .049 | .109 | .071 | .043 | .075  | .050 | .030 | .044 | .029 | .018 | .014 | .010 | .006 |   |  |
| 7.0         | .121                  | .074 | .042 | .104 | .064 | .036 | .072  | .045 | .026 | .042 | .027 | .015 | .013 | .009 | .005 |   |  |
| 8.0         | .115                  | .068 | .036 | .099 | .059 | .032 | .069  | .042 | .022 | .040 | .025 | .013 | .013 | .008 | .004 |   |  |
| 9.0         | .110                  | .063 | .032 | .095 | .055 | .028 | .066  | .039 | .020 | .038 | .023 | .012 | .012 | .007 | .004 |   |  |
| 10.0        | .105                  | .059 | .028 | .091 | .051 | .025 | .063  | .036 | .017 | .037 | .021 | .010 | .012 | .007 | .003 |   |  |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ZZX  
 Test Date:2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.4556]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## UGR(Unified Glare Rating) Table

|                 |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------------------|------|------|------|------|----------------|------|------|------|------|
| 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   | 21.3             | 22.5 | 21.7 | 22.8 | 23.1 | 21.9           | 23.1 | 22.3 | 23.4 | 23.7 |
| 3H              | 21.3             | 22.3 | 21.7 | 22.7 | 23.0 | 21.9           | 22.9 | 22.3 | 23.3 | 23.6 |
| 4H              | 21.2             | 22.2 | 21.6 | 22.5 | 22.9 | 21.8           | 22.8 | 22.2 | 23.1 | 23.5 |
| 6H              | 21.1             | 22.0 | 21.5 | 22.4 | 22.8 | 21.7           | 22.6 | 22.1 | 23.0 | 23.4 |
| 8H              | 21.1             | 21.9 | 21.5 | 22.3 | 22.7 | 21.7           | 22.5 | 22.1 | 22.9 | 23.3 |
| 12H             | 21.0             | 21.8 | 21.4 | 22.2 | 22.6 | 21.6           | 22.4 | 22.0 | 22.8 | 23.2 |
| 4H 2H           | 21.3             | 22.3 | 21.8 | 22.7 | 23.1 | 21.9           | 22.9 | 22.3 | 23.2 | 23.6 |
| 3H              | 21.3             | 22.1 | 21.8 | 22.5 | 23.0 | 21.9           | 22.7 | 22.3 | 23.1 | 23.5 |
| 4H              | 21.3             | 21.9 | 21.7 | 22.4 | 22.8 | 21.8           | 22.5 | 22.2 | 22.9 | 23.4 |
| 6H              | 21.2             | 21.8 | 21.6 | 22.2 | 22.7 | 21.7           | 22.3 | 22.2 | 22.8 | 23.2 |
| 8H              | 21.1             | 21.7 | 21.6 | 22.1 | 22.6 | 21.7           | 22.2 | 22.1 | 22.7 | 23.1 |
| 12H             | 21.1             | 21.5 | 21.5 | 22.0 | 22.5 | 21.6           | 22.1 | 22.1 | 22.6 | 23.1 |
| 8H 4H           | 21.1             | 21.7 | 21.6 | 22.1 | 22.6 | 21.7           | 22.2 | 22.1 | 22.7 | 23.1 |
| 6H              | 21.0             | 21.5 | 21.5 | 22.0 | 22.4 | 21.6           | 22.0 | 22.1 | 22.5 | 23.0 |
| 8H              | 20.9             | 21.3 | 21.5 | 21.9 | 22.4 | 21.5           | 21.9 | 22.0 | 22.4 | 22.9 |
| 12H             | 20.9             | 21.2 | 21.4 | 21.7 | 22.3 | 21.4           | 21.8 | 22.0 | 22.3 | 22.9 |
| 12H 4H          | 21.1             | 21.5 | 21.5 | 22.0 | 22.5 | 21.6           | 22.1 | 22.1 | 22.6 | 23.1 |
| 6H              | 20.9             | 21.3 | 21.5 | 21.8 | 22.4 | 21.5           | 21.9 | 22.0 | 22.4 | 22.9 |
| 8H              | 20.9             | 21.2 | 21.4 | 21.7 | 22.3 | 21.4           | 21.8 | 22.0 | 22.3 | 22.9 |
| CIE190: 2010    |                  |      |      |      |      |                |      |      |      |      |
|                 |                  |      |      |      |      |                |      |      |      |      |

CIE190: 2010  
Area: 0.1213 m2

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:ZZX  
Test Date:2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

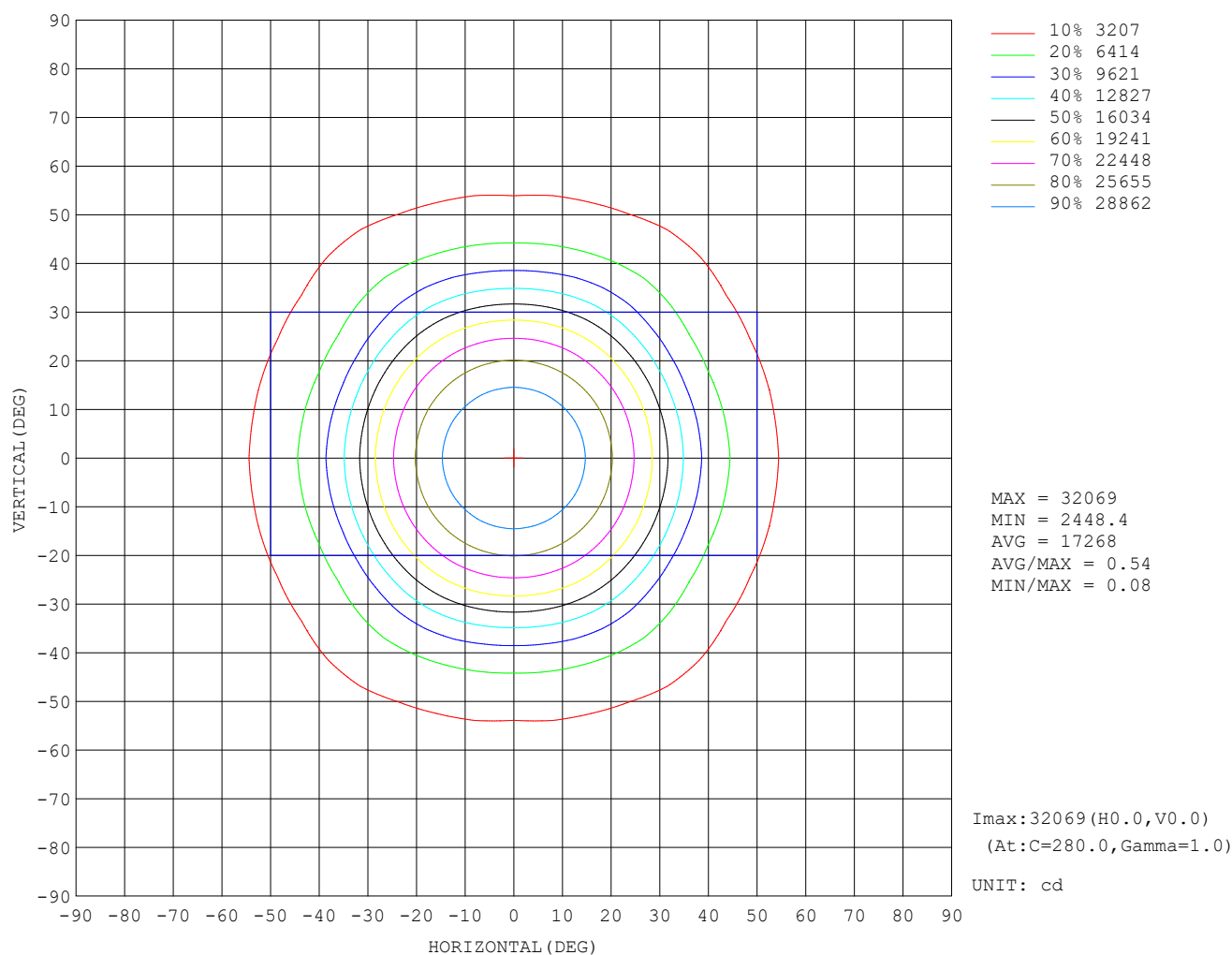
## UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ |     |     |     |     |           |     |     |               |        |
| $k = 0.60$                       | 77   | 69  | 64  | 76  | 69  | 64        | 75  | 68  | 64            | 59     |
| 0.80                             | 86   | 78  | 73  | 85  | 78  | 73        | 84  | 77  | 73            | 68     |
| 1.00                             | 92   | 85  | 80  | 91  | 85  | 80        | 90  | 85  | 80            | 75     |
| 1.25                             | 98   | 91  | 87  | 96  | 90  | 86        | 94  | 89  | 85            | 80     |
| 1.50                             | 101  | 95  | 91  | 100 | 94  | 90        | 97  | 93  | 89            | 84     |
| 2.00                             | 105  | 100 | 96  | 104 | 99  | 95        | 101 | 97  | 94            | 88     |
| 2.50                             | 107  | 103 | 99  | 106 | 101 | 98        | 102 | 99  | 96            | 90     |
| 3.00                             | 109  | 105 | 102 | 108 | 104 | 101       | 104 | 101 | 99            | 92     |
| 4.00                             | 112  | 108 | 106 | 110 | 107 | 104       | 106 | 104 | 102           | 94     |
| 5.00                             | 113  | 110 | 108 | 111 | 109 | 106       | 107 | 105 | 103           | 95     |
| ROOM INDEX                       | UF (total)   |     |     |     |     |           |     |     |               | Direct |
| According to DIN EN 13032-2 2004 |  |     |     |     |     | Suspended |     |     | SHRNOM = 1.25 |        |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ZZX  
 Test Date: 2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
 Humidity: 65.0%  
 Test Distance: 26.000m [K=0.4556]  
 Remarks:

## ISOCANDELA DIAGRAM

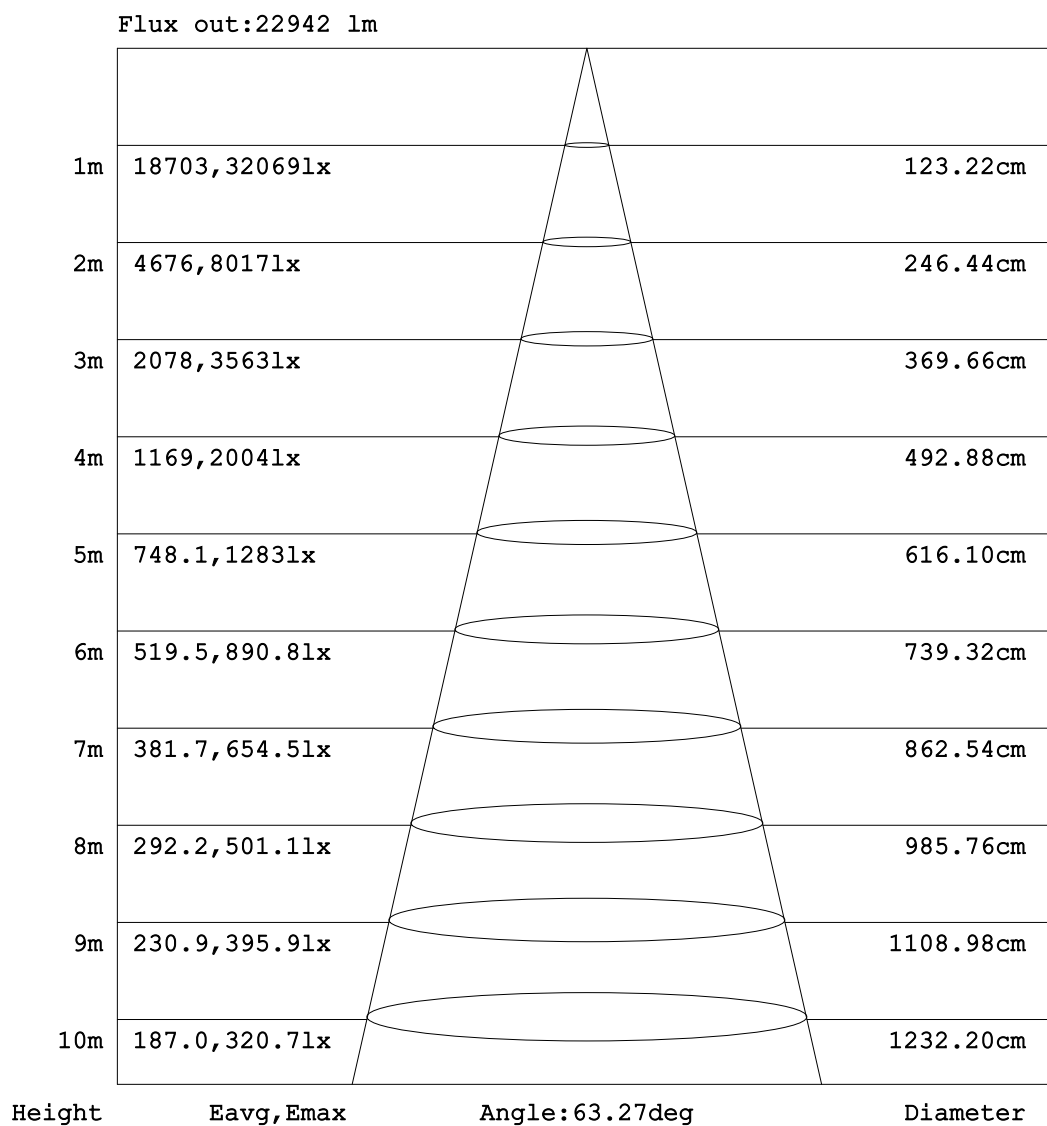


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: ZZK  
Test Date: 2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks:



## AAI Figure



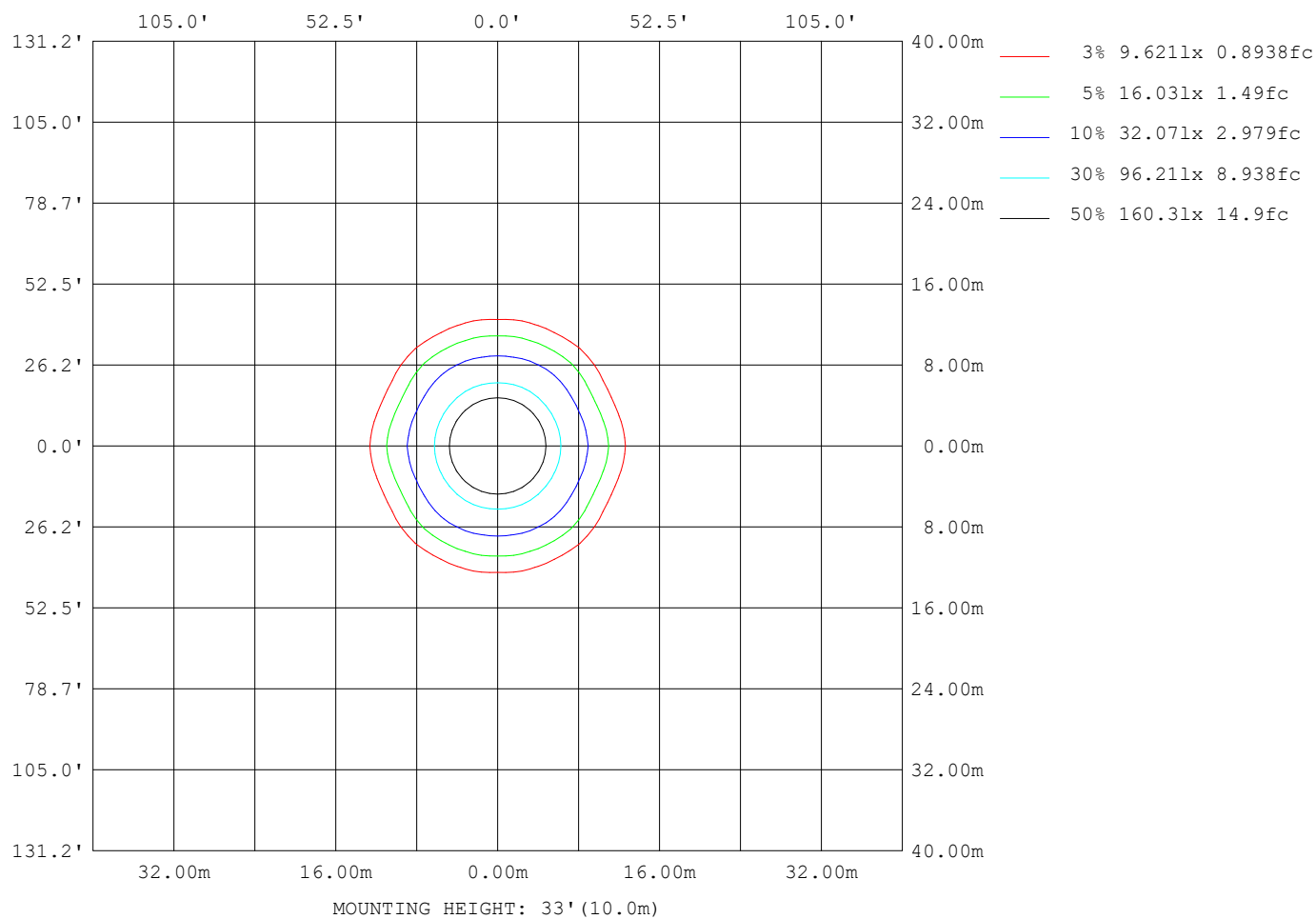
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:ZZX  
Test Date:2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: ZZX  
Test Date: 2023-07-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LED Avg.L Report

|   |       |                  |
|---|-------|------------------|
| Test:U:230.0V I:0.885A P:199.9W PF:0.982 Freq:50.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37442.4x1 lm |       |                  |
| NAME: HB68-200H-5070-H00193+H00D02  | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.:   | SUR.: | Shielding Angle: |

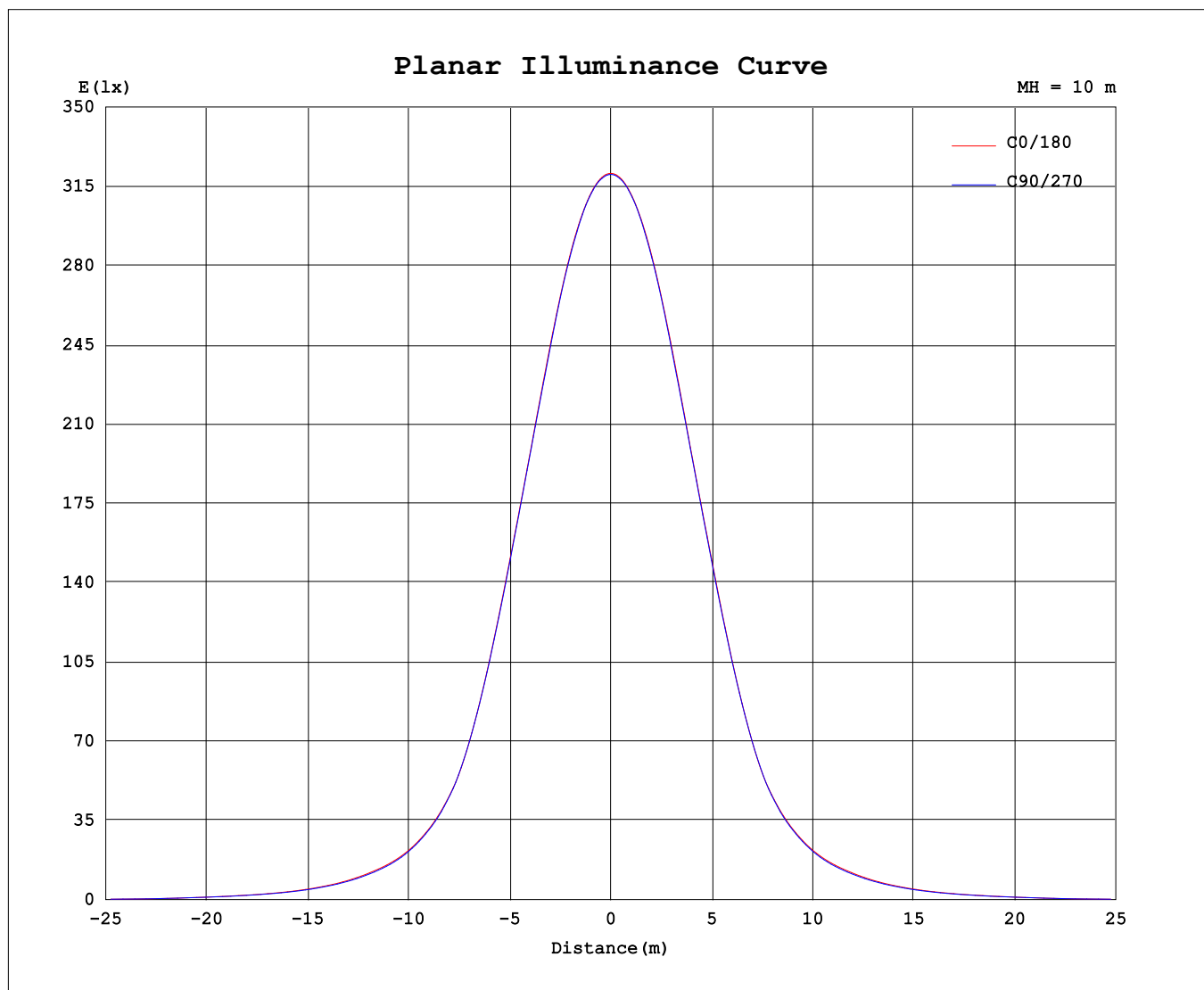
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 17796 |
| L_0~180 (75) av  | 1627  |
| L_0~180 (85) av  | 1167  |
| L_90~270 (65) av | 17882 |
| L_90~270 (75) av | 1864  |
| L_90~270 (85) av | 1262  |
| L_45 (65) av     | 17653 |
| L_45 (75) av     | 1727  |
| L_45 (85) av     | 1230  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:ZZX  
Test Date:2023-07-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: ZZX  
Test Date: 2023-07-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks: