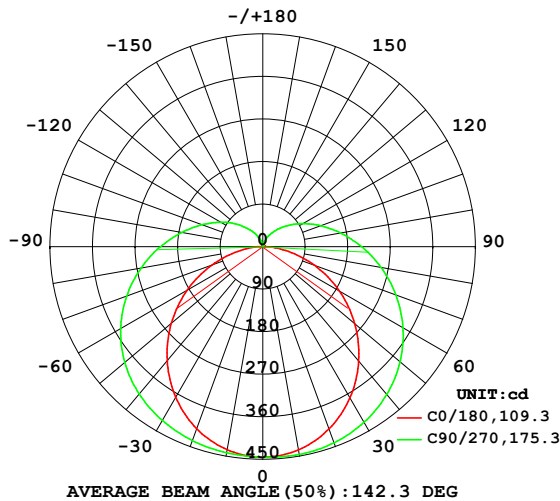


# LUMINAIRE PHOTOMETRIC TEST REPORT

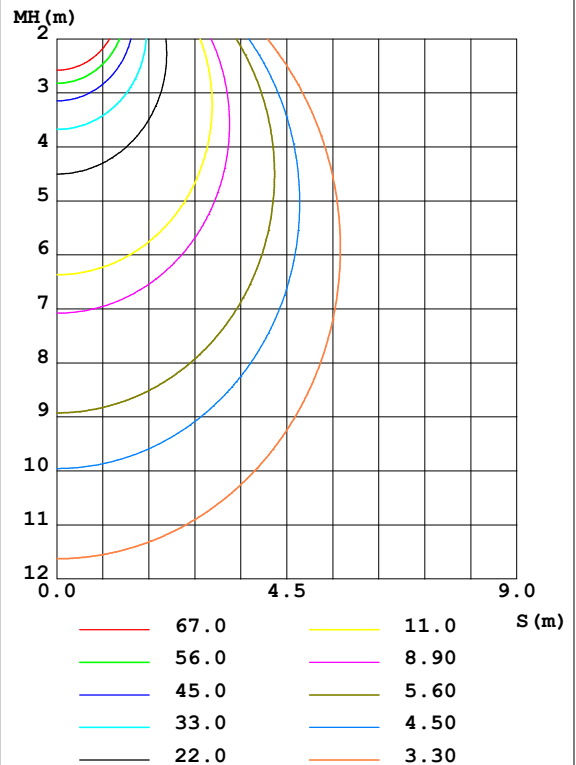
|                                                                               |                          |                  |
|-------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:230.4V I:0.1327A P:18W PF:0.5594 Freq:49.99Hz Lamp Flux:2000x1 lm      |                          |                  |
| SGSO SKU: 0028920140                                                          | TYPE:                    | WEIGHT:          |
| SPEC.:1.2m T5 Cabinet,18W,2000lm,111lm/W,3CCT Switch,3000/3500/4000K,Linkable | DIM.: $\phi$ 1182*21.5mm | SERIAL No.:      |
| MFR.: TOSPO                                                                   | SUR.:                    | Shielding Angle: |

| DATA OF LAMP      |                | PHOTOMETRIC DATA Eff: 111 lm/W |         |                         |          |
|-------------------|----------------|--------------------------------|---------|-------------------------|----------|
| MODEL             | 1.2m-18W-4000K | I <sub>max</sub> (cd)          | 446.3   | S/MH (C0/180)           | 1.23     |
| NOMINAL POWER(W)  | 18             | LOR(%)                         | 100.0   | S/MH (C90/270)          | 1.44     |
| RATED VOLTAGE(V)  | 230            | TOTAL FLUX (lm)                | 2000    | $\eta$ UP,DN (C0-180)   | 8.4,41.3 |
| NOMINAL FLUX (lm) | 2000           | CIE CLASS                      | SEMI-D. | $\eta$ UP,DN (C180-360) | 8.8,41.4 |
| LAMPS INSIDE      | 1              | $\eta$ up (%)                  | 17.3    | CIBSE SHR NOM           | 1.50     |
| TEST VOLTAGE (V)  |                | $\eta$ down (%)                | 82.7    | CIBSE SHR MAX           | 1.55     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2023-03-02

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:25%  
Test Distance:11.350m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10       | 436.4                 | 441.7 | 446.3 | 441.6 | 436.1 | 439.2 | 442.6 | 439.2 | 0- 10    | 42.27       | 42.27        | 2,2       |
| 20       | 410.3                 | 427.2 | 441.5 | 427.0 | 409.6 | 423.7 | 436.5 | 423.6 | 10- 20   | 122.7       | 164.9        | 7.82,7.82 |
| 30       | 369.1                 | 401.7 | 428.9 | 401.4 | 368.2 | 398.5 | 424.8 | 398.4 | 20- 30   | 190.7       | 355.6        | 16.9,16.9 |
| 40       | 315.8                 | 366.8 | 408.2 | 366.5 | 314.7 | 365.0 | 406.8 | 364.9 | 30- 40   | 239.6       | 595.2        | 28.2,28.2 |
| 50       | 254.1                 | 325.1 | 379.2 | 324.6 | 252.7 | 325.1 | 381.1 | 325.1 | 40- 50   | 265.2       | 860.4        | 40.8,40.8 |
| 60       | 186.6                 | 279.0 | 342.5 | 278.4 | 185.0 | 280.5 | 347.2 | 280.7 | 50- 60   | 266.5       | 1127         | 53.4,53.4 |
| 70       | 116.7                 | 231.2 | 299.7 | 230.6 | 114.8 | 234.2 | 306.3 | 234.4 | 60- 70   | 245.7       | 1373         | 65.1,65.1 |
| 80       | 49.89                 | 185.1 | 254.1 | 184.4 | 48.07 | 189.1 | 261.5 | 189.5 | 70- 80   | 208.5       | 1581         | 74.9,74.9 |
| 90       | 5.040                 | 143.6 | 209.2 | 143.0 | 4.636 | 148.3 | 216.4 | 148.8 | 80- 90   | 164.3       | 1746         | 82.7,82.7 |
| 100      | 1.873                 | 108.6 | 167.4 | 108.0 | 1.660 | 107.5 | 174.3 | 114.1 | 90-100   | 125.0       | 1870         | 88.7,88.7 |
| 110      | 2.071                 | 80.40 | 130.3 | 76.94 | 1.859 | 82.15 | 136.6 | 85.62 | 100-110  | 91.73       | 1962         | 93,93     |
| 120      | 2.261                 | 58.07 | 97.96 | 48.16 | 2.140 | 51.58 | 103.8 | 63.02 | 110-120  | 63.70       | 2026         | 96,96     |
| 130      | 2.520                 | 40.64 | 70.44 | 30.89 | 2.376 | 33.17 | 75.67 | 44.97 | 120-130  | 41.04       | 2067         | 98,98     |
| 140      | 2.650                 | 26.73 | 47.32 | 18.34 | 2.620 | 20.42 | 49.96 | 30.76 | 130-140  | 23.68       | 2091         | 99.1,99.1 |
| 150      | 2.772                 | 16.41 | 28.72 | 10.74 | 2.772 | 11.72 | 31.57 | 19.06 | 140-150  | 12.15       | 2103         | 99.7,99.7 |
| 160      | 2.894                 | 8.492 | 12.54 | 7.305 | 2.932 | 7.360 | 16.02 | 8.546 | 150-160  | 5.241       | 2108         | 99.9,99.9 |
| 170      | 2.997                 | 4.184 | 4.808 | 4.060 | 3.031 | 3.402 | 3.316 | 3.376 | 160-170  | 1.624       | 2110         | 100,100   |
| 180      | 3.023                 | 3.089 | 3.105 | 3.074 | 3.023 | 3.021 | 3.067 | 3.082 | 170-180  | 0.3167      | 2110         | 100,100   |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |           |

Conical surface Flux(90deg): 726.15 lm

%lum = 34.4%

%lamp = 34.4%

Conical surface Flux(120deg): 1127 lm

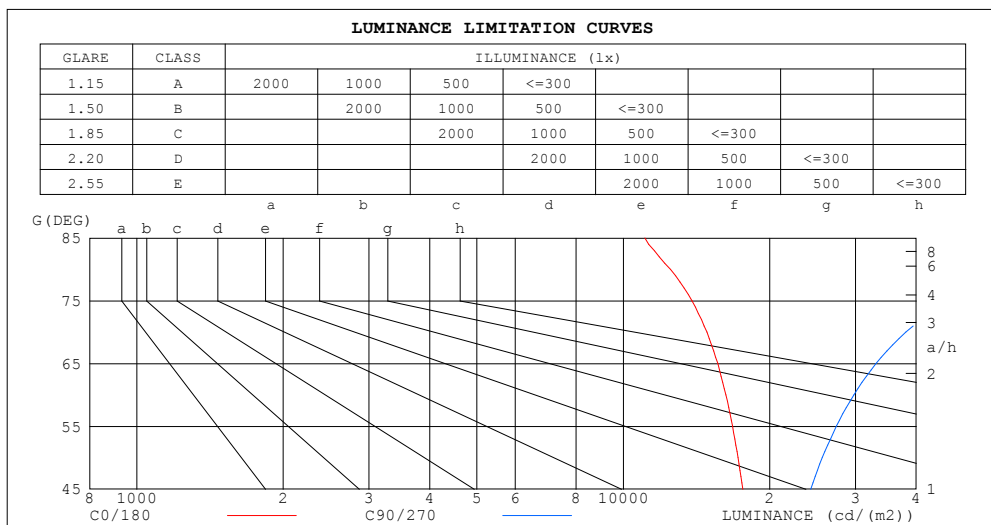
%lum = 53.4%

%lamp = 53.4%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Testing Room  
 Test Date:2023-03-02

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity:25%  
 Test Distance:11.350m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 11075  | 115386  |
| 80                | 12510  | 63603   |
| 75                | 13838  | 46523   |
| 70                | 14855  | 38086   |
| 65                | 15637  | 33082   |
| 60                | 16254  | 29773   |
| 55                | 16773  | 27416   |
| 50                | 17212  | 25645   |
| 45                | 17604  | 24267   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Testing Room  
 Test Date: 2023-03-02

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity: 25%  
 Test Distance: 11.350m [K=1.0000]  
 Remarks:

# WEC AND CCEC

| 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  | .391                  | .222 | .070 | .379 | .216 | .069 | .355                             | .204 | .065 | .334 | .192 | .062 | .314 | .182 | .059 |   |  |
| 2.0  | .338                  | .185 | .057 | .326 | .180 | .055 | .305                             | .170 | .053 | .286 | .160 | .050 | .268 | .151 | .048 |   |  |
| 3.0  | .299                  | .159 | .048 | .289 | .155 | .047 | .270                             | .146 | .044 | .252 | .138 | .042 | .236 | .131 | .040 |   |  |
| 4.0  | .269                  | .140 | .041 | .260 | .136 | .040 | .243                             | .129 | .038 | .226 | .122 | .037 | .211 | .115 | .035 |   |  |
| 5.0  | .244                  | .125 | .036 | .236 | .121 | .035 | .220                             | .115 | .034 | .206 | .108 | .032 | .192 | .103 | .031 |   |  |
| 6.0  | .224                  | .112 | .032 | .216 | .109 | .031 | .202                             | .103 | .030 | .188 | .098 | .029 | .176 | .093 | .027 |   |  |
| 7.0  | .206                  | .102 | .029 | .199 | .099 | .028 | .186                             | .094 | .027 | .174 | .089 | .026 | .162 | .084 | .025 |   |  |
| 8.0  | .191                  | .093 | .026 | .185 | .091 | .026 | .173                             | .086 | .025 | .161 | .082 | .024 | .151 | .077 | .023 |   |  |
| 9.0  | .178                  | .086 | .024 | .172 | .084 | .024 | .161                             | .080 | .023 | .151 | .076 | .022 | .141 | .072 | .021 |   |  |
| 10.0 | .166                  | .080 | .022 | .161 | .078 | .022 | .151                             | .074 | .021 | .141 | .070 | .020 | .132 | .066 | .019 |   |  |

| 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  | .322                  | .322 | .322 | .275 | .275 | .275 | .188                                       | .188 | .188 | .108 | .108 | .108 | .035 | .035 | .035 |   |
| 1.0  | .319                  | .288 | .261 | .273 | .247 | .224 | .186                                       | .170 | .155 | .107 | .098 | .090 | .034 | .032 | .029 |   |
| 2.0  | .312                  | .265 | .226 | .267 | .228 | .195 | .183                                       | .158 | .136 | .106 | .092 | .080 | .034 | .030 | .026 |   |
| 3.0  | .304                  | .249 | .204 | .261 | .215 | .177 | .179                                       | .149 | .124 | .103 | .087 | .073 | .033 | .028 | .024 |   |
| 4.0  | .297                  | .236 | .190 | .255 | .204 | .165 | .175                                       | .142 | .116 | .101 | .083 | .069 | .033 | .027 | .023 |   |
| 5.0  | .289                  | .227 | .180 | .248 | .196 | .157 | .171                                       | .137 | .111 | .099 | .080 | .066 | .032 | .026 | .022 |   |
| 6.0  | .281                  | .219 | .173 | .242 | .189 | .151 | .167                                       | .132 | .107 | .097 | .078 | .064 | .031 | .025 | .021 |   |
| 7.0  | .274                  | .212 | .168 | .236 | .184 | .147 | .163                                       | .129 | .104 | .095 | .076 | .062 | .031 | .025 | .020 |   |
| 8.0  | .268                  | .206 | .164 | .230 | .179 | .143 | .159                                       | .126 | .102 | .093 | .074 | .061 | .030 | .024 | .020 |   |
| 9.0  | .261                  | .202 | .161 | .225 | .175 | .141 | .156                                       | .123 | .100 | .091 | .073 | .060 | .029 | .024 | .020 |   |
| 10.0 | .255                  | .197 | .159 | .220 | .171 | .139 | .153                                       | .121 | .099 | .089 | .071 | .059 | .029 | .023 | .019 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Testing Room  
Test Date: 2023-03-02

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity: 25%  
Test Distance: 11.350m [K=1.0000]  
Remarks:

### 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                                      | 18.7             | 20.1 | 19.2 | 20.6 | 21.2 | 21.2           | 22.6 | 21.7 | 23.1 | 23.6 |
| 3H                                                 | 20.3             | 21.6 | 20.8 | 22.1 | 22.7 | 23.9           | 25.2 | 24.4 | 25.7 | 26.3 |
| 4H                                                 | 21.0             | 22.2 | 21.5 | 22.7 | 23.4 | 25.4           | 26.6 | 25.9 | 27.1 | 27.7 |
| 6H                                                 | 21.5             | 22.6 | 22.0 | 23.2 | 23.8 | 27.0           | 28.1 | 27.5 | 28.7 | 29.3 |
| 8H                                                 | 21.6             | 22.7 | 22.2 | 23.3 | 24.0 | 27.9           | 29.0 | 28.5 | 29.6 | 30.2 |
| 12H                                                | 21.7             | 22.8 | 22.3 | 23.4 | 24.1 | 28.9           | 30.0 | 29.5 | 30.6 | 31.2 |
| 4H 2H                                              | 20.0             | 21.2 | 20.5 | 21.8 | 22.4 | 21.7           | 23.0 | 22.3 | 23.5 | 24.1 |
| 3H                                                 | 21.8             | 22.9 | 22.4 | 23.5 | 24.2 | 24.7           | 25.8 | 25.3 | 26.3 | 27.0 |
| 4H                                                 | 22.7             | 23.7 | 23.3 | 24.3 | 25.0 | 26.4           | 27.4 | 27.0 | 28.0 | 28.7 |
| 6H                                                 | 23.4             | 24.3 | 24.0 | 24.9 | 25.6 | 28.2           | 29.1 | 28.9 | 29.7 | 30.5 |
| 8H                                                 | 23.7             | 24.5 | 24.3 | 25.1 | 25.9 | 29.2           | 30.1 | 29.9 | 30.7 | 31.5 |
| 12H                                                | 23.8             | 24.6 | 24.5 | 25.3 | 26.1 | 30.4           | 31.2 | 31.1 | 31.8 | 32.6 |
| 8H 4H                                              | 23.8             | 24.7 | 24.5 | 25.3 | 26.0 | 26.7           | 27.5 | 27.4 | 28.2 | 28.9 |
| 6H                                                 | 24.9             | 25.6 | 25.6 | 26.3 | 27.1 | 28.9           | 29.6 | 29.5 | 30.2 | 31.0 |
| 8H                                                 | 25.4             | 26.1 | 26.1 | 26.7 | 27.6 | 30.1           | 30.7 | 30.8 | 31.4 | 32.2 |
| 12H                                                | 25.8             | 26.4 | 26.5 | 27.1 | 27.9 | 31.5           | 32.1 | 32.3 | 32.8 | 33.6 |
| 12H 4H                                             | 24.2             | 25.0 | 24.9 | 25.6 | 26.4 | 26.7           | 27.5 | 27.4 | 28.2 | 28.9 |
| 6H                                                 | 25.5             | 26.2 | 26.2 | 26.9 | 27.7 | 29.0           | 29.6 | 29.7 | 30.3 | 31.1 |
| 8H                                                 | 26.2             | 26.8 | 26.9 | 27.5 | 28.3 | 30.3           | 30.9 | 31.1 | 31.6 | 32.4 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H                                           | + 0.1 / - 0.1    |      |      |      |      | + 0.1 / - 0.1  |      |      |      |      |
| 1.5H                                               | + 0.2 / - 0.3    |      |      |      |      | + 0.2 / - 0.3  |      |      |      |      |
| 2.0H                                               | + 0.2 / - 0.4    |      |      |      |      | + 0.2 / - 0.4  |      |      |      |      |

CIE Pub.117, 2110 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.6$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2023-03-02

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:25%  
Test Distance:11.350m [K=1.0000]  
Remarks:

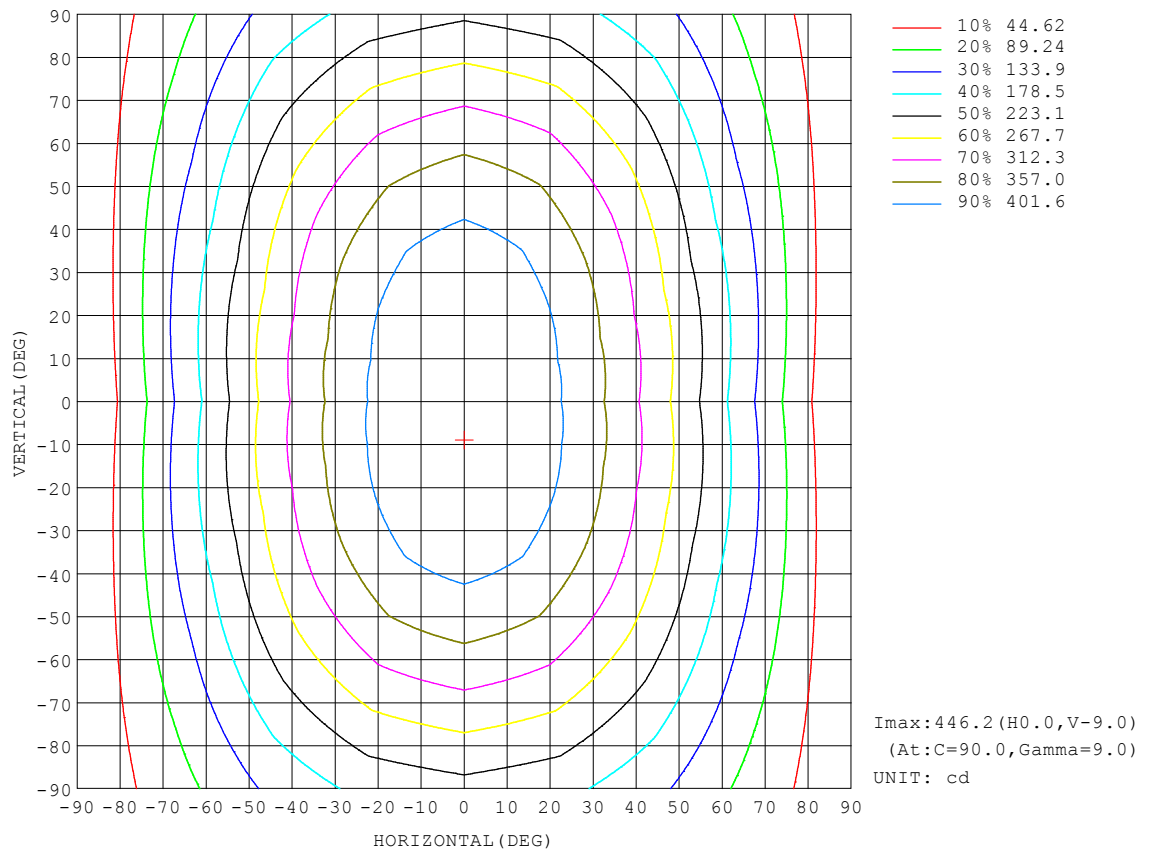
### UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |                |     |        |
| $k = 0.60$                       | 47                                                   | 35  | 28        | 46  | 35  | 27  | 45  | 34             | 27  | 20     |
| 0.80                             | 57                                                   | 44  | 35        | 55  | 43  | 35  | 52  | 41             | 34  | 26     |
| 1.00                             | 64                                                   | 51  | 43        | 62  | 50  | 42  | 59  | 51             | 41  | 32     |
| 1.25                             | 71                                                   | 59  | 50        | 69  | 57  | 49  | 65  | 55             | 48  | 38     |
| 1.50                             | 76                                                   | 64  | 55        | 74  | 62  | 54  | 69  | 59             | 52  | 42     |
| 2.00                             | 84                                                   | 73  | 64        | 81  | 70  | 63  | 75  | 67             | 60  | 48     |
| 2.50                             | 88                                                   | 78  | 70        | 85  | 76  | 68  | 79  | 71             | 65  | 52     |
| 3.00                             | 92                                                   | 83  | 75        | 89  | 80  | 73  | 82  | 75             | 69  | 56     |
| 4.00                             | 97                                                   | 89  | 82        | 93  | 86  | 80  | 86  | 80             | 75  | 61     |
| 5.00                             | 100                                                  | 93  | 87        | 96  | 90  | 84  | 88  | 83             | 79  | 64     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |                |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHR NOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Testing Room  
 Test Date: 2023-03-02

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity: 25%  
 Test Distance: 11.350m [K=1.0000]  
 Remarks:

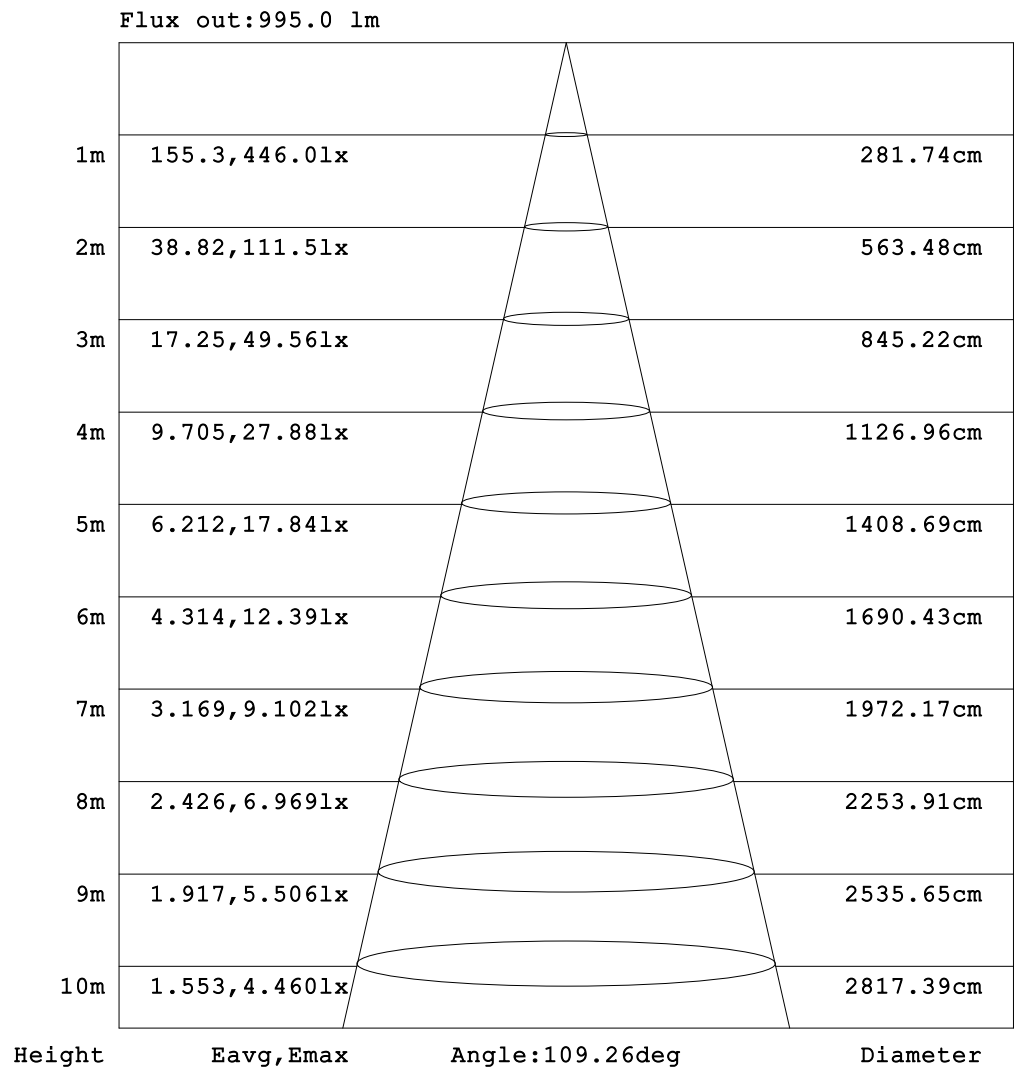
# ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Testing Room  
Test Date: 2023-03-02

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity: 25%  
Test Distance: 11.350m [K=1.0000]  
Remarks:

### AAI Figure

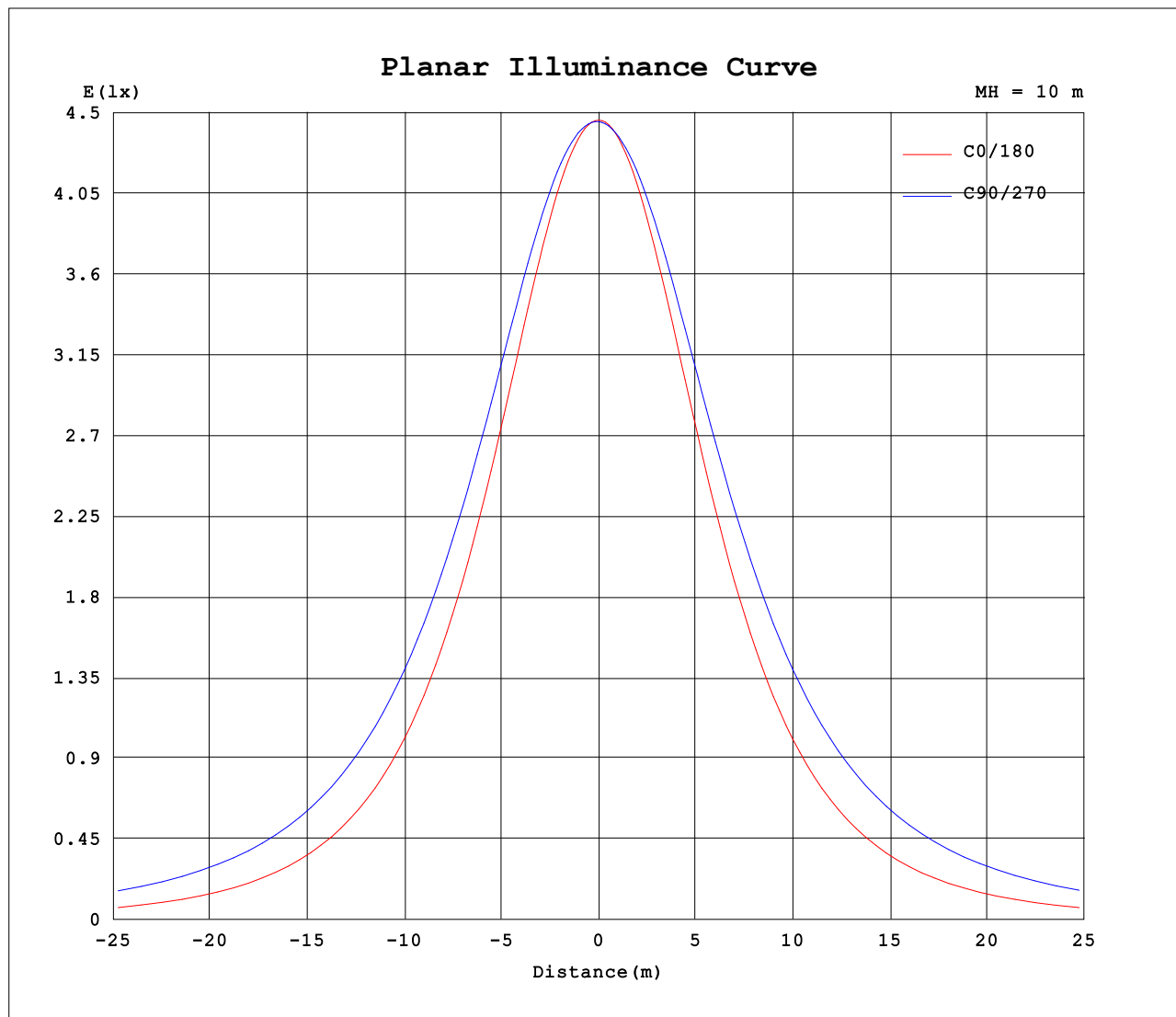


**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2023-03-02

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:25%  
Test Distance:11.350m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Testing Room  
 Test Date: 2023-03-02

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity: 25%  
 Test Distance: 11.350m [K=1.0000]  
 Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 445  | 445  | 445  | 445  | 445  | 445   | 445  | 445   | 445  | 445   | 445  | 445   | 445  | 445   | 445  | 445   |  |  |  |
| 5                  | 443  | 444  | 445  | 446  | 446  | 446   | 445  | 444   | 443  | 443   | 443  | 444   | 444  | 444   | 443  | 443   |  |  |  |
| 10                 | 436  | 438  | 442  | 445  | 446  | 445   | 442  | 438   | 436  | 436   | 439  | 442   | 443  | 442   | 439  | 437   |  |  |  |
| 15                 | 425  | 429  | 436  | 442  | 445  | 442   | 436  | 429   | 425  | 426   | 433  | 438   | 440  | 438   | 433  | 427   |  |  |  |
| 20                 | 410  | 416  | 427  | 438  | 442  | 437   | 427  | 416   | 410  | 413   | 424  | 433   | 436  | 433   | 424  | 413   |  |  |  |
| 25                 | 391  | 400  | 416  | 431  | 436  | 430   | 415  | 400   | 391  | 396   | 412  | 426   | 431  | 426   | 412  | 397   |  |  |  |
| 30                 | 369  | 381  | 402  | 422  | 429  | 421   | 401  | 380   | 368  | 377   | 399  | 417   | 425  | 417   | 398  | 377   |  |  |  |
| 35                 | 344  | 359  | 385  | 410  | 420  | 410   | 385  | 358   | 343  | 355   | 383  | 407   | 417  | 407   | 383  | 355   |  |  |  |
| 40                 | 316  | 334  | 367  | 397  | 408  | 397   | 366  | 333   | 315  | 330   | 365  | 395   | 407  | 395   | 365  | 331   |  |  |  |
| 45                 | 286  | 308  | 347  | 382  | 395  | 382   | 346  | 307   | 285  | 304   | 346  | 381   | 395  | 381   | 346  | 305   |  |  |  |
| 50                 | 254  | 280  | 325  | 365  | 379  | 364   | 325  | 279   | 253  | 277   | 325  | 365   | 381  | 366   | 325  | 277   |  |  |  |
| 55                 | 221  | 252  | 302  | 346  | 362  | 346   | 302  | 250   | 219  | 248   | 303  | 348   | 365  | 348   | 303  | 249   |  |  |  |
| 60                 | 187  | 223  | 279  | 326  | 342  | 325   | 278  | 221   | 185  | 220   | 281  | 328   | 347  | 329   | 281  | 220   |  |  |  |
| 65                 | 152  | 194  | 255  | 305  | 322  | 304   | 254  | 191   | 150  | 191   | 257  | 308   | 328  | 309   | 258  | 191   |  |  |  |
| 70                 | 117  | 165  | 231  | 282  | 300  | 282   | 231  | 163   | 115  | 162   | 234  | 286   | 306  | 287   | 234  | 163   |  |  |  |
| 75                 | 82.2 | 138  | 208  | 260  | 277  | 259   | 207  | 136   | 80.4 | 136   | 211  | 264   | 284  | 265   | 212  | 136   |  |  |  |
| 80                 | 49.9 | 113  | 185  | 237  | 254  | 237   | 184  | 110   | 48.1 | 111   | 189  | 242   | 261  | 243   | 189  | 112   |  |  |  |
| 85                 | 22.2 | 90.4 | 164  | 215  | 231  | 214   | 163  | 88.1  | 20.8 | 89.8  | 168  | 220   | 239  | 221   | 168  | 90.1  |  |  |  |
| 90                 | 5.04 | 71.8 | 144  | 193  | 209  | 193   | 143  | 69.6  | 4.64 | 72.1  | 148  | 198   | 216  | 199   | 149  | 72.3  |  |  |  |
| 95                 | 3.52 | 57.1 | 125  | 172  | 188  | 172   | 125  | 55.2  | 3.61 | 58.2  | 130  | 177   | 195  | 178   | 131  | 58.2  |  |  |  |
| 100                | 1.87 | 45.8 | 109  | 153  | 167  | 153   | 108  | 44.2  | 1.66 | 47.4  | 107  | 158   | 174  | 159   | 114  | 47.4  |  |  |  |
| 105                | 1.94 | 37.3 | 93.7 | 135  | 148  | 135   | 87.4 | 35.1  | 1.74 | 37.9  | 94.6 | 140   | 155  | 140   | 99.1 | 39.2  |  |  |  |
| 110                | 2.07 | 30.8 | 80.4 | 118  | 130  | 118   | 76.9 | 28.1  | 1.86 | 30.4  | 82.2 | 118   | 137  | 123   | 85.6 | 32.8  |  |  |  |
| 115                | 2.17 | 25.6 | 68.5 | 102  | 114  | 102   | 62.0 | 22.2  | 2.00 | 24.0  | 65.6 | 104   | 120  | 108   | 73.7 | 27.7  |  |  |  |
| 120                | 2.26 | 20.8 | 58.1 | 87.8 | 98.0 | 87.5  | 48.2 | 17.0  | 2.14 | 18.9  | 51.6 | 89.7  | 104  | 92.9  | 63.0 | 23.5  |  |  |  |
| 125                | 2.40 | 17.5 | 48.8 | 74.6 | 83.6 | 73.2  | 38.0 | 13.9  | 2.26 | 14.9  | 40.5 | 76.6  | 89.2 | 79.6  | 53.5 | 19.8  |  |  |  |
| 130                | 2.52 | 14.6 | 40.6 | 62.6 | 70.4 | 57.1  | 30.9 | 11.2  | 2.38 | 11.5  | 33.2 | 58.8  | 75.7 | 67.3  | 45.0 | 16.4  |  |  |  |
| 135                | 2.58 | 11.9 | 32.8 | 51.7 | 58.4 | 40.7  | 23.5 | 8.89  | 2.51 | 9.35  | 26.1 | 42.8  | 61.6 | 56.1  | 37.5 | 14.0  |  |  |  |
| 140                | 2.65 | 9.51 | 26.7 | 41.7 | 47.3 | 32.2  | 18.3 | 7.33  | 2.62 | 7.64  | 20.4 | 33.4  | 50.0 | 46.0  | 30.8 | 10.2  |  |  |  |
| 145                | 2.71 | 7.21 | 21.5 | 32.8 | 37.0 | 23.6  | 14.2 | 6.32  | 2.70 | 6.10  | 15.3 | 25.7  | 40.6 | 36.9  | 24.1 | 7.66  |  |  |  |
| 150                | 2.77 | 5.84 | 16.4 | 25.6 | 28.7 | 17.4  | 10.7 | 5.31  | 2.77 | 3.57  | 11.7 | 18.6  | 31.6 | 28.4  | 19.1 | 6.23  |  |  |  |
| 155                | 2.87 | 4.76 | 12.2 | 18.8 | 21.4 | 12.5  | 8.81 | 4.60  | 2.85 | 3.67  | 9.90 | 13.0  | 20.1 | 21.3  | 13.9 | 4.89  |  |  |  |
| 160                | 2.89 | 4.07 | 8.49 | 13.2 | 12.5 | 8.73  | 7.30 | 4.09  | 2.93 | 3.54  | 7.36 | 9.29  | 16.0 | 15.0  | 8.55 | 3.98  |  |  |  |
| 165                | 2.95 | 3.55 | 5.76 | 8.87 | 9.86 | 6.29  | 5.27 | 3.61  | 2.99 | 3.00  | 4.29 | 4.76  | 6.44 | 7.97  | 5.24 | 3.10  |  |  |  |
| 170                | 3.00 | 3.10 | 4.18 | 5.10 | 4.81 | 4.58  | 4.06 | 3.06  | 3.03 | 3.00  | 3.40 | 3.55  | 3.32 | 3.61  | 3.38 | 3.08  |  |  |  |
| 175                | 3.01 | 3.05 | 3.14 | 3.17 | 3.48 | 3.15  | 3.07 | 3.07  | 3.03 | 3.01  | 3.13 | 3.07  | 3.14 | 3.12  | 3.17 | 3.08  |  |  |  |
| 180                | 3.02 | 3.03 | 3.09 | 3.08 | 3.11 | 3.08  | 3.07 | 3.07  | 3.02 | 3.02  | 3.02 | 3.07  | 3.07 | 3.08  | 3.08 | 3.07  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2023-03-02

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:25%  
Test Distance:11.350m [K=1.0000]  
Remarks: