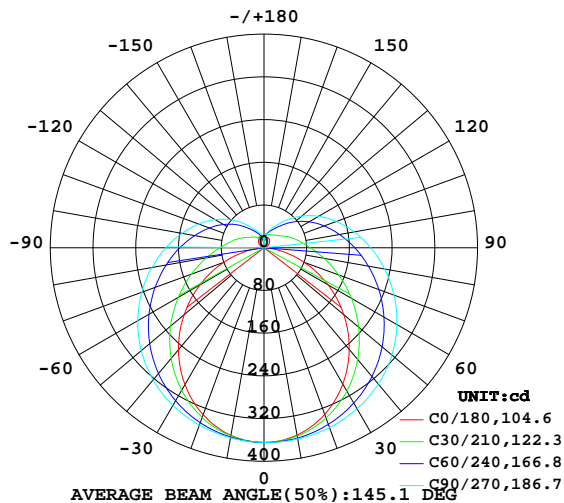


## LUMINAIRE PHOTOMETRIC TEST REPORT

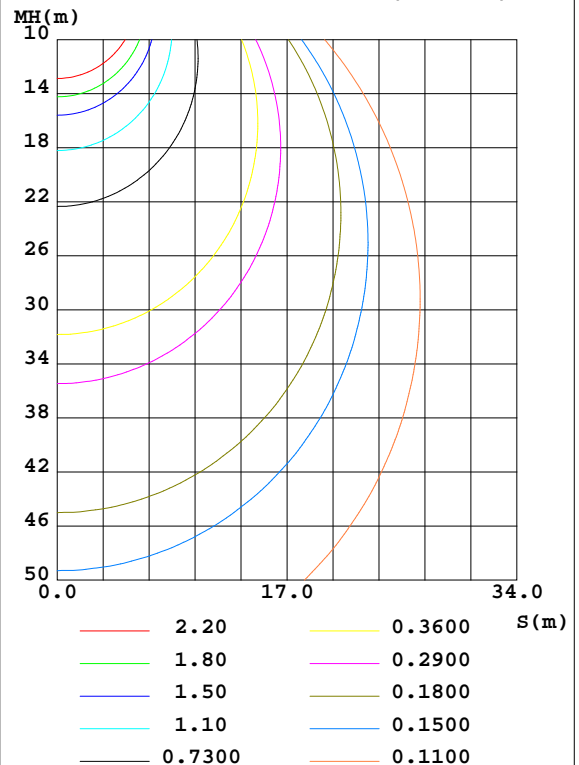
|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 69.47 lm/W |         |                        |           |
|------------------|------------|----------------------------------|---------|------------------------|-----------|
| MODEL            | C06015302A | Imax(cd)                         | 365.1   | S/MH(C0/180)           | 1.21      |
| NOMINAL POWER(W) |            | LOR(%)                           | 100.0   | S/MH(C90/270)          | 1.41      |
| RATED VOLTAGE(V) | 120        | TOTAL FLUX(lm)                   | 1813.8  | $\eta$ UP,DN(C0-180)   | 11.9,39.3 |
| NOMINAL FLUX(lm) | 1813.79    | CIE CLASS                        | SEMI-D. | $\eta$ UP,DN(C180-360) | 10.7,38.1 |
| LAMPS INSIDE     | 1          | $\eta$ up(%)                     | 22.5    | CIBSE SHR NOM          | 1.50      |
| TEST VOLTAGE(V)  | 120        | $\eta$ down(%)                   | 77.5    | CIBSE SHR MAX          | 1.55      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.9DEG  
Operators: Alan Wang  
Test Date: 27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.5%  
Test Distance: 2.500m [K=1.0250]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180   | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|--------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 356.3                 | 360.4 | 363.5 | 360.5 | 356.7  | 359.0 | 361.4 | 358.8 | 0- 10    | 34.57       | 34.57        | 1.91,1.91  |
| 20       | 332.2                 | 346.1 | 358.3 | 346.2 | 332.9  | 343.6 | 353.6 | 342.7 | 10- 20   | 99.77       | 134.3        | 7.41,7.41  |
| 30       | 295.1                 | 323.5 | 348.4 | 323.2 | 296.0  | 319.9 | 341.0 | 318.3 | 20- 30   | 153.9       | 288.2        | 15.9,15.9  |
| 40       | 248.3                 | 294.7 | 333.2 | 293.5 | 249.1  | 289.6 | 323.2 | 287.6 | 30- 40   | 191.7       | 479.9        | 26.5,26.5  |
| 50       | 195.2                 | 262.0 | 312.7 | 260.4 | 195.2  | 255.8 | 300.1 | 253.0 | 40- 50   | 210.6       | 690.5        | 38.1,38.1  |
| 60       | 138.1                 | 227.4 | 287.4 | 225.6 | 138.1  | 220.4 | 272.8 | 217.4 | 50- 60   | 210.7       | 901.2        | 49.7,49.7  |
| 70       | 80.43                 | 193.4 | 259.1 | 191.3 | 80.51  | 184.8 | 243.6 | 181.3 | 60- 70   | 195.1       | 1096         | 60.4,60.4  |
| 80       | 27.95                 | 161.8 | 229.6 | 159.5 | 28.11  | 152.8 | 213.2 | 149.4 | 70- 80   | 169.0       | 1265         | 69.8,69.8  |
| 90       | 0.3751                | 134.1 | 200.0 | 132.3 | 0.3981 | 125.3 | 183.9 | 121.9 | 80- 90   | 139.5       | 1405         | 77.5,77.5  |
| 100      | 1.785                 | 110.9 | 171.5 | 109.3 | 1.765  | 102.3 | 156.2 | 99.04 | 90-100   | 114.1       | 1519         | 83.7,83.7  |
| 110      | 4.589                 | 91.16 | 144.1 | 89.99 | 4.508  | 83.24 | 130.1 | 80.48 | 100-110  | 91.56       | 1610         | 88.8,88.8  |
| 120      | 8.925                 | 73.42 | 118.1 | 72.59 | 8.639  | 65.86 | 105.5 | 63.52 | 110-120  | 70.67       | 1681         | 92.7,92.7  |
| 130      | 13.13                 | 57.37 | 92.50 | 57.00 | 12.85  | 50.41 | 81.63 | 48.49 | 120-130  | 51.74       | 1733         | 95.5,95.5  |
| 140      | 16.54                 | 44.08 | 68.97 | 43.91 | 16.24  | 38.07 | 59.70 | 36.71 | 130-140  | 35.53       | 1768         | 97.5,97.5  |
| 150      | 19.37                 | 35.45 | 49.32 | 35.45 | 19.20  | 29.90 | 42.13 | 30.05 | 140-150  | 22.75       | 1791         | 98.8,98.8  |
| 160      | 20.61                 | 29.76 | 36.30 | 29.77 | 21.27  | 23.70 | 31.14 | 27.07 | 150-160  | 13.82       | 1805         | 99.5,99.5  |
| 170      | 15.40                 | 25.54 | 27.70 | 21.47 | 15.42  | 16.78 | 23.96 | 24.45 | 160-170  | 7.112       | 1812         | 99.9,99.9  |
| 180      | 19.63                 | 13.94 | 0     | 15.39 | 18.35  | 16.47 | 6.423 | 10.62 | 170-180  | 1.704       | 1814         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |        |       |       |       |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 584.06 lm

%lum = 32.2%

%lamp = 32.2%

Conical surface Flux(120deg): 901.24 lm

%lum = 49.7%

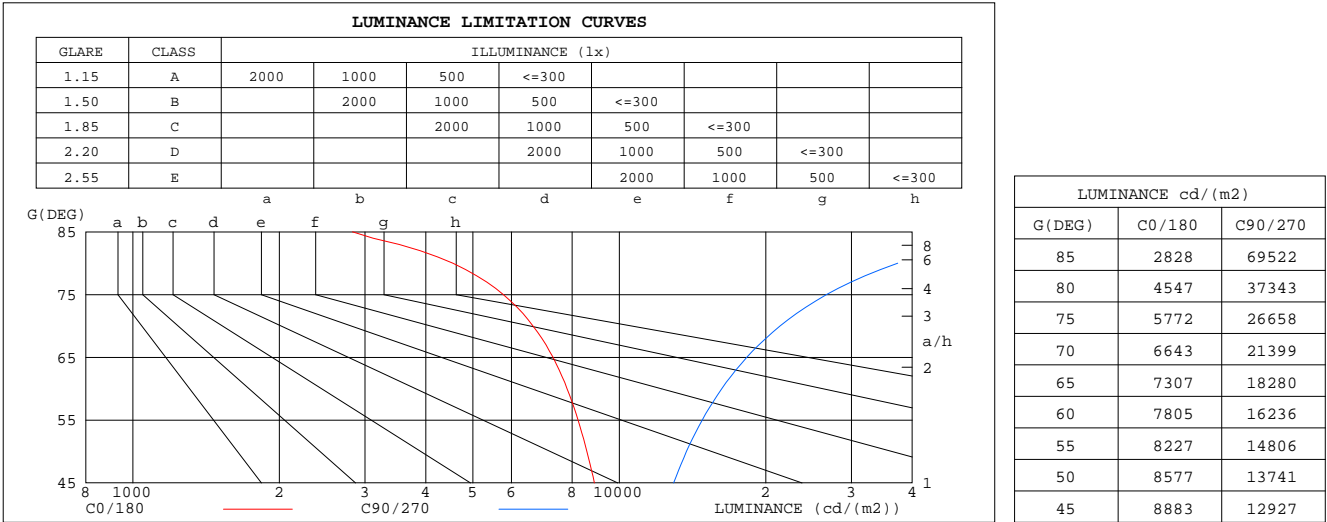
%lamp = 49.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Alan Wang  
 Test Date:27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity:41.5%  
 Test Distance:2.500m [K=1.0250]  
 Remarks:

LUMINANCE LIMITATION CURVES

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |



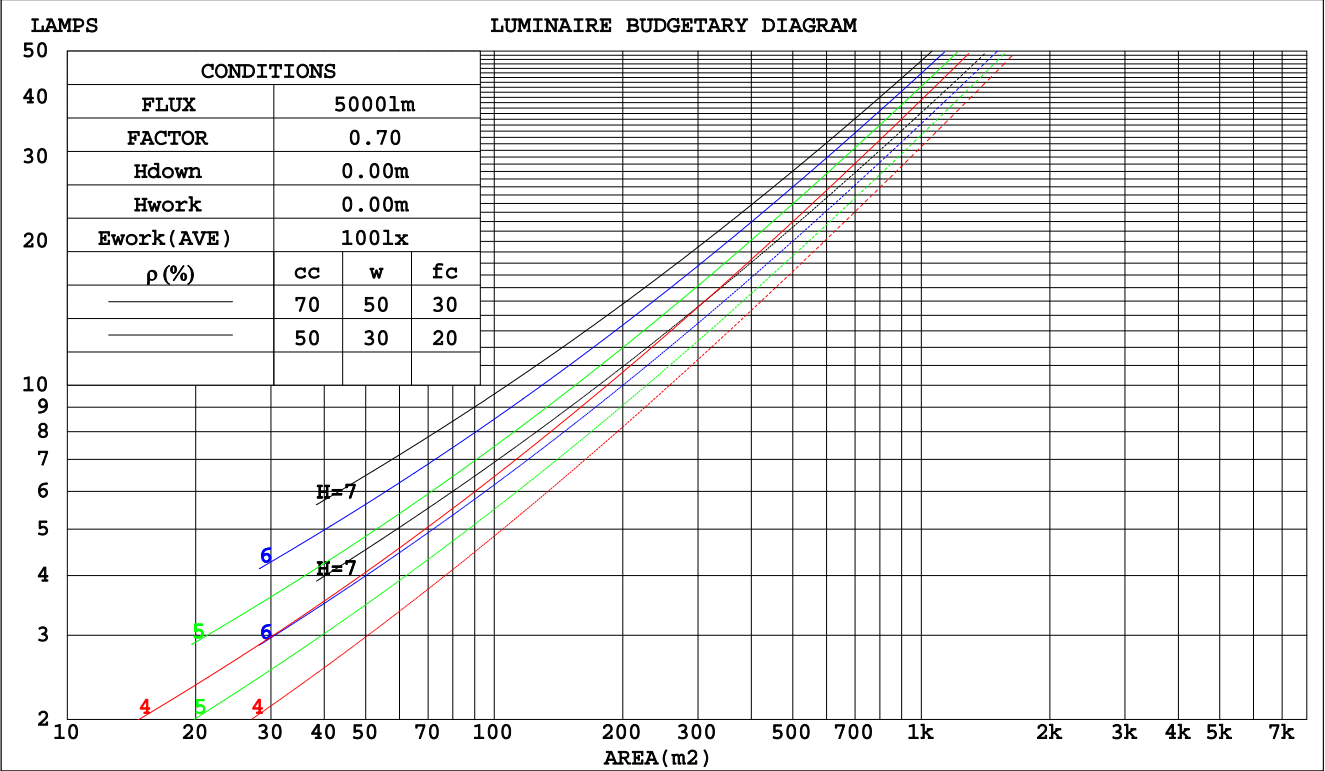
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.9DEG  
Operators:Alan Wang  
Test Date:27 December 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity:41.5%  
Test Distance:2.500m [K=1.0250]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

| pcc | 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 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.9DEG  
Operators:Alan Wang  
Test Date:27 December 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity:41.5%  
Test Distance:2.500m [K=1.0250]  
Remarks:

## WEC AND CCEC

|  |  |  |          |  |                  |
|--|--|--|----------|--|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |  |  |          |  |                  |
| NAME:  |  |  | TYPE:LED |  | WEIGHT:          |
| SPEC.:   |  |  | DIM.:    |  | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  |  |  | SUR.:    |  | Shielding Angle: |

| 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  | .386                  | .220 | .070 | .372 | .212 | .067 | .346                            | .198 | .063 | .322 | .186 | .060 | .299 | .173 | .056 |   |  |
| 2.0  | .333                  | .182 | .056 | .320 | .176 | .054 | .296                            | .165 | .051 | .274 | .154 | .048 | .254 | .144 | .045 |   |  |
| 3.0  | .295                  | .157 | .047 | .284 | .152 | .046 | .262                            | .142 | .043 | .242 | .132 | .041 | .223 | .124 | .038 |   |  |
| 4.0  | .265                  | .138 | .041 | .255 | .133 | .039 | .235                            | .125 | .037 | .217 | .116 | .035 | .200 | .109 | .033 |   |  |
| 5.0  | .241                  | .123 | .036 | .231 | .119 | .035 | .213                            | .111 | .033 | .197 | .104 | .031 | .181 | .097 | .029 |   |  |
| 6.0  | .221                  | .111 | .032 | .212 | .107 | .031 | .196                            | .100 | .029 | .180 | .094 | .028 | .166 | .087 | .026 |   |  |
| 7.0  | .203                  | .101 | .029 | .196 | .097 | .028 | .180                            | .091 | .026 | .166 | .085 | .025 | .153 | .080 | .023 |   |  |
| 8.0  | .189                  | .092 | .026 | .181 | .089 | .025 | .168                            | .084 | .024 | .154 | .078 | .023 | .142 | .073 | .021 |   |  |
| 9.0  | .176                  | .085 | .024 | .169 | .082 | .023 | .156                            | .077 | .022 | .144 | .072 | .021 | .133 | .067 | .019 |   |  |
| 10.0 | .164                  | .079 | .022 | .158 | .076 | .021 | .146                            | .072 | .020 | .135 | .067 | .019 | .125 | .063 | .018 |   |  |

| 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  | .362                  | .362 | .362 | .310 | .310 | .310 | .211                                       | .211 | .211 | .121 | .121 | .121 | .039 | .039 | .039 |   |
| 1.0  | .359                  | .329 | .302 | .307 | .282 | .260 | .210                                       | .194 | .179 | .121 | .112 | .104 | .039 | .036 | .034 |   |
| 2.0  | .352                  | .306 | .267 | .302 | .263 | .231 | .207                                       | .182 | .161 | .119 | .106 | .095 | .038 | .034 | .031 |   |
| 3.0  | .345                  | .290 | .246 | .295 | .250 | .213 | .203                                       | .174 | .150 | .117 | .101 | .088 | .038 | .033 | .029 |   |
| 4.0  | .337                  | .277 | .232 | .289 | .240 | .202 | .199                                       | .167 | .142 | .115 | .098 | .084 | .037 | .032 | .028 |   |
| 5.0  | .329                  | .268 | .222 | .283 | .232 | .193 | .195                                       | .162 | .137 | .113 | .095 | .081 | .036 | .031 | .027 |   |
| 6.0  | .322                  | .260 | .215 | .277 | .225 | .188 | .191                                       | .158 | .133 | .111 | .093 | .079 | .036 | .030 | .026 |   |
| 7.0  | .315                  | .253 | .210 | .271 | .220 | .183 | .187                                       | .154 | .130 | .109 | .091 | .077 | .035 | .030 | .026 |   |
| 8.0  | .308                  | .248 | .206 | .265 | .215 | .180 | .184                                       | .151 | .128 | .107 | .089 | .076 | .035 | .029 | .025 |   |
| 9.0  | .302                  | .243 | .203 | .260 | .211 | .177 | .180                                       | .148 | .126 | .105 | .088 | .075 | .034 | .029 | .025 |   |
| 10.0 | .296                  | .239 | .201 | .255 | .208 | .175 | .177                                       | .146 | .125 | .103 | .086 | .074 | .033 | .028 | .025 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24.9DEG  
 Operators:Alan Wang  
 Test Date:27 December 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity:41.5%  
 Test Distance:2.500m [K=1.0250]  
 Remarks:

## UGR(Unified Glare Rating) Table

|  |     |                  |      |      |          |      |                |                  |      |      |      |
|--|-----|------------------|------|------|----------|------|----------------|------------------|------|------|------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |     |                  |      |      |          |      |                |                  |      |      |      |
| NAME:  |     |                  |      |      | TYPE:LED |      |                | WEIGHT:          |      |      |      |
| SPEC.:   |     |                  |      |      | DIM.:    |      |                | SERIAL No.:      |      |      |      |
| MFR.: ETi Solid State Lighting, Inc  |     |                  |      |      | SUR.:    |      |                | 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  |     | 18.4             | 19.8 | 19.0 | 20.3     | 21.0 | 21.5           | 22.8             | 22.0 | 23.3 | 24.0 |
| 3H   |     | 19.8             | 21.0 | 20.4 | 21.6     | 22.3 | 24.3           | 25.5             | 24.9 | 26.1 | 26.8 |
| 4H   |     | 20.3             | 21.5 | 20.9 | 22.1     | 22.8 | 25.9           | 27.0             | 26.5 | 27.6 | 28.3 |
| 6H   |     | 20.7             | 21.7 | 21.3 | 22.4     | 23.1 | 27.6           | 28.7             | 28.2 | 29.3 | 30.0 |
| 8H   |     | 20.7             | 21.8 | 21.4 | 22.4     | 23.2 | 28.5           | 29.6             | 29.2 | 30.2 | 31.0 |
| 12H  |     | 20.8             | 21.8 | 21.4 | 22.4     | 23.2 | 29.7           | 30.7             | 30.3 | 31.3 | 32.1 |
| 4H   | 2H  | 19.8             | 21.0 | 20.5 | 21.6     | 22.3 | 22.0           | 23.1             | 22.6 | 23.7 | 24.5 |
|  | 3H  | 21.5             | 22.6 | 22.2 | 23.2     | 24.0 | 25.1           | 26.1             | 25.7 | 26.7 | 27.5 |
|  | 4H  | 22.3             | 23.2 | 23.0 | 23.9     | 24.7 | 26.8           | 27.8             | 27.5 | 28.4 | 29.2 |
|  | 6H  | 22.8             | 23.7 | 23.5 | 24.4     | 25.2 | 28.8           | 29.6             | 29.5 | 30.3 | 31.2 |
|  | 8H  | 23.0             | 23.8 | 23.7 | 24.5     | 25.3 | 29.9           | 30.7             | 30.6 | 31.4 | 32.2 |
|  | 12H | 23.1             | 23.8 | 23.8 | 24.6     | 25.4 | 31.2           | 31.9             | 31.9 | 32.6 | 33.5 |
| 8H   | 4H  | 23.7             | 24.5 | 24.4 | 25.2     | 26.0 | 27.2           | 27.9             | 27.9 | 28.7 | 29.5 |
|  | 6H  | 24.7             | 25.4 | 25.5 | 26.1     | 27.0 | 29.5           | 30.1             | 30.2 | 30.9 | 31.7 |
|  | 8H  | 25.2             | 25.7 | 25.9 | 26.5     | 27.4 | 30.8           | 31.4             | 31.5 | 32.1 | 33.0 |
|  | 12H | 25.5             | 26.0 | 26.2 | 26.8     | 27.7 | 32.3           | 32.8             | 33.1 | 33.6 | 34.5 |
| 12H  | 4H  | 24.2             | 24.9 | 24.9 | 25.6     | 26.5 | 27.2           | 27.9             | 27.9 | 28.6 | 29.5 |
|  | 6H  | 25.5             | 26.1 | 26.2 | 26.8     | 27.7 | 29.6           | 30.2             | 30.3 | 30.9 | 31.8 |
|  | 8H  | 26.1             | 26.7 | 26.9 | 27.4     | 28.4 | 31.0           | 31.5             | 31.8 | 32.3 | 33.2 |
| 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   |     | + 0.2 / - 0.4    |      |      |          |      | + 0.3 / - 0.4  |                  |      |      |      |

CIE Pub.117, 1814 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.1$ )  
Area: 0.0354 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.9DEG  
Operators:Alan Wang  
Test Date:27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity:41.5%  
Test Distance:2.500m [K=1.0250]  
Remarks:

## UTILIZATION FACTORS TABLE

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

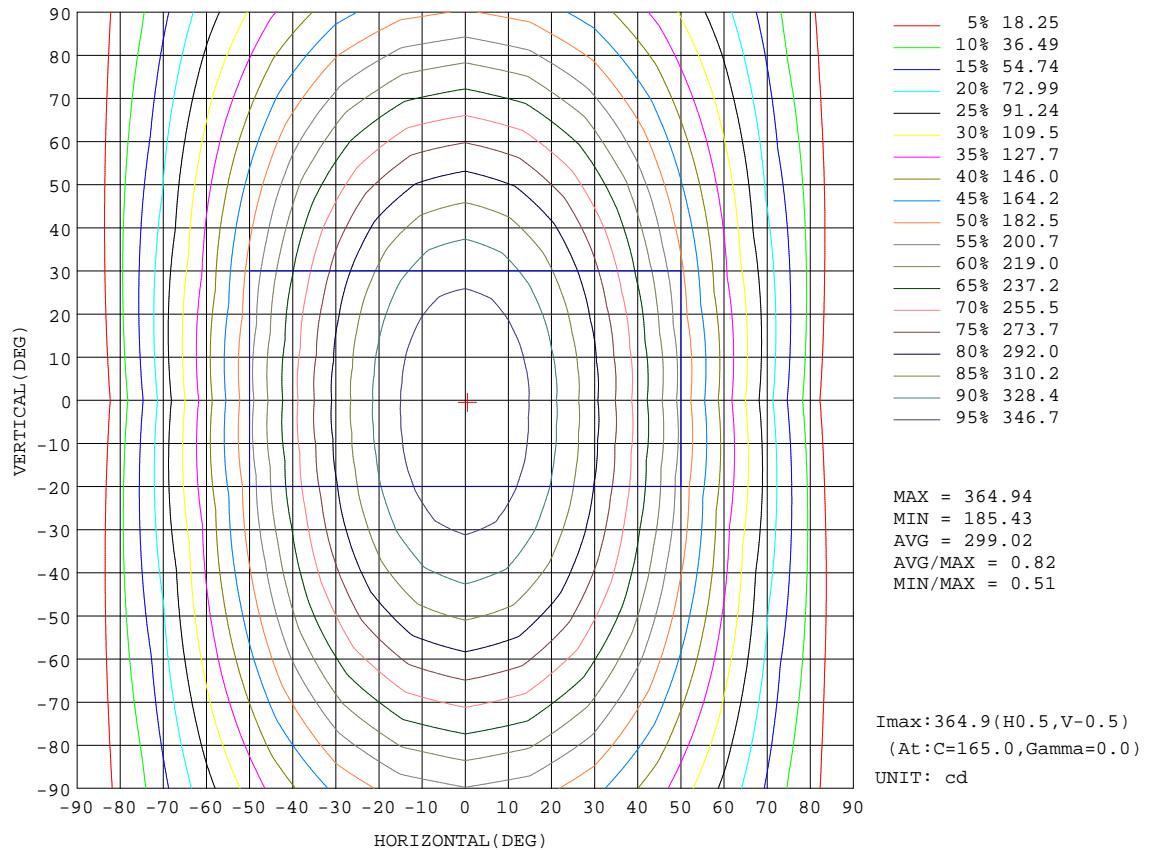
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 46  | 34  | 27        | 45  | 33  | 26  | 43  | 32            | 26  | 19     |
| 0.80                             | 55  | 42  | 34        | 54  | 41  | 34  | 51  | 40            | 33  | 25     |
| 1.00                             | 63  | 50  | 42        | 61  | 49  | 41  | 57  | 49            | 39  | 30     |
| 1.25                             | 70  | 57  | 48        | 67  | 56  | 48  | 63  | 53            | 46  | 35     |
| 1.50                             | 75  | 63  | 54        | 72  | 61  | 53  | 67  | 57            | 50  | 39     |
| 2.00                             | 82  | 71  | 63        | 79  | 69  | 61  | 73  | 64            | 58  | 45     |
| 2.50                             | 87  | 76  | 68        | 83  | 74  | 66  | 76  | 69            | 62  | 49     |
| 3.00                             | 91  | 81  | 74        | 87  | 78  | 71  | 79  | 72            | 67  | 52     |
| 4.00                             | 95  | 87  | 81        | 91  | 84  | 78  | 83  | 77            | 72  | 57     |
| 5.00                             | 98  | 91  | 85        | 94  | 88  | 82  | 86  | 81            | 76  | 60     |
| 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:24.9DEG  
 Operators:Alan Wang  
 Test Date:27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity:41.5%  
 Test Distance:2.500m [K=1.0250]  
 Remarks:

## ISOCANDELA DIAGRAM

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.9DEG  
Operators:Alan Wang  
Test Date:27 December 2024

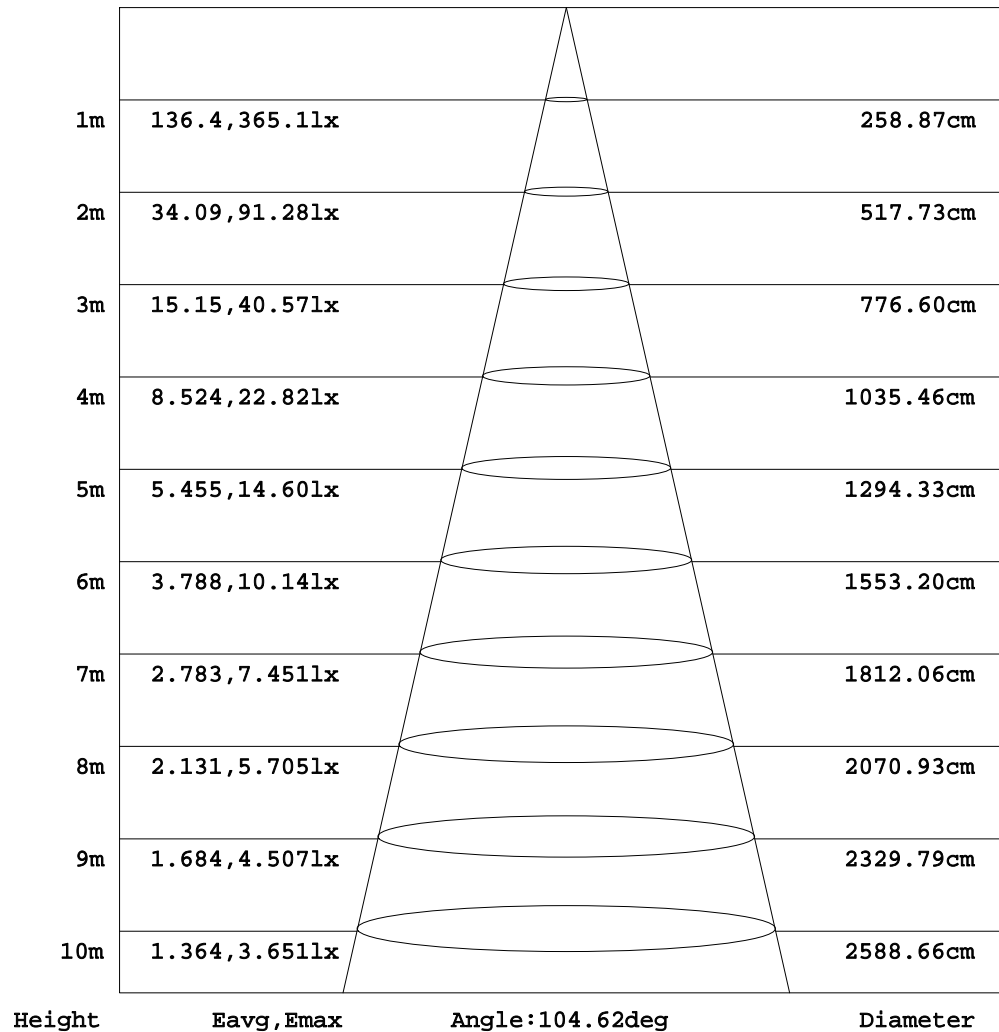
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity:41.5%  
Test Distance:2.500m [K=1.0250]  
Remarks:



## AAI Figure

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

Flux out:754.5 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: 15.0DEG

Test Speed: HIGH

Temperature: 24.9DEG

Operators: Alan Wang

Test Date: 27 December 2024

 $\gamma$  Range: 0 - 180DEG $\gamma$  Interval: 1.0DEG

Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

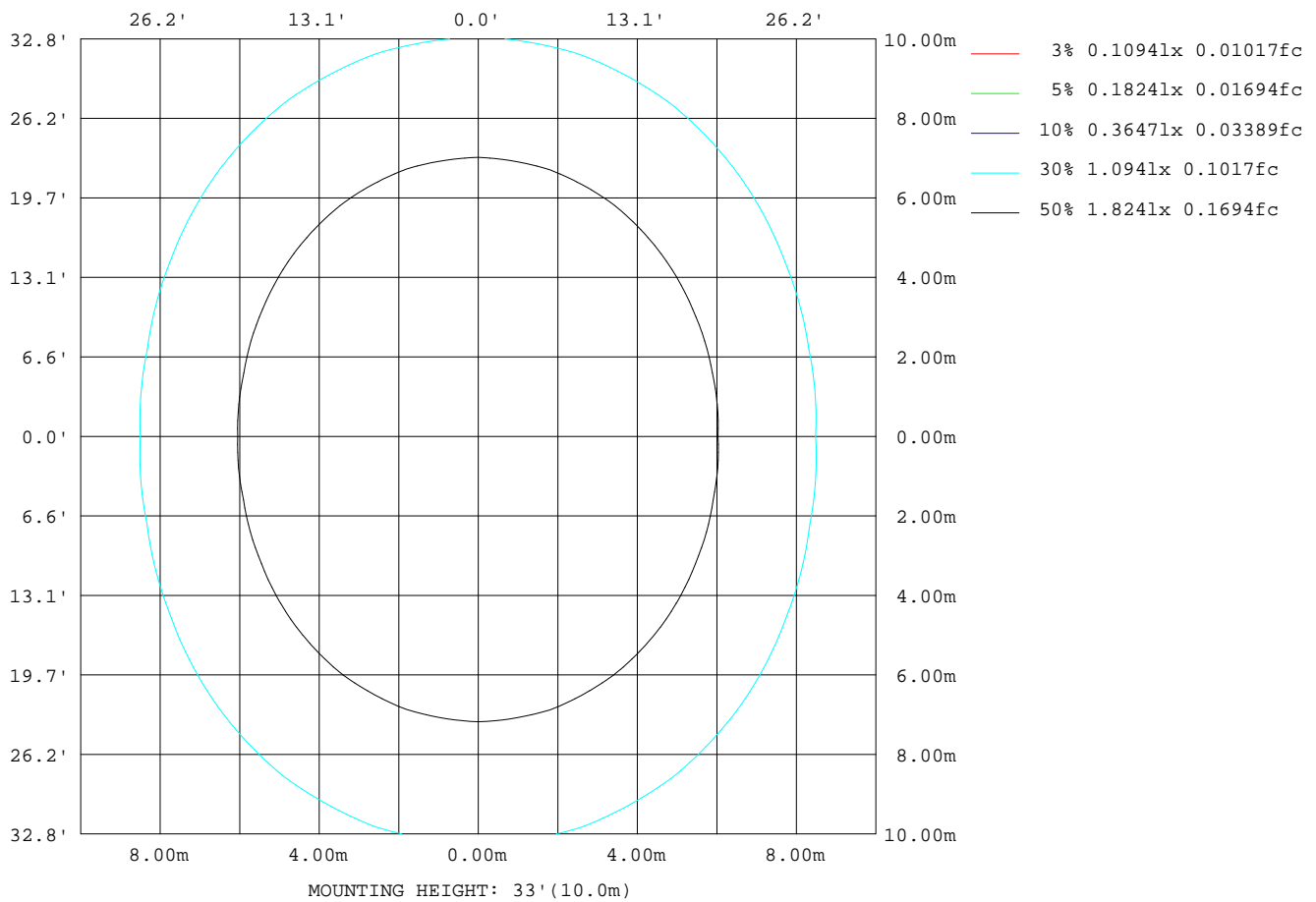
Humidity: 41.5%

Test Distance: 2.500m [K=1.0250]

Remarks:

## ISOLUX DIAGRAM

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.9DEG  
 Operators: Alan Wang  
 Test Date: 27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.5%  
 Test Distance: 2.500m [K=1.0250]  
 Remarks:

## LED Avg.L Report

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

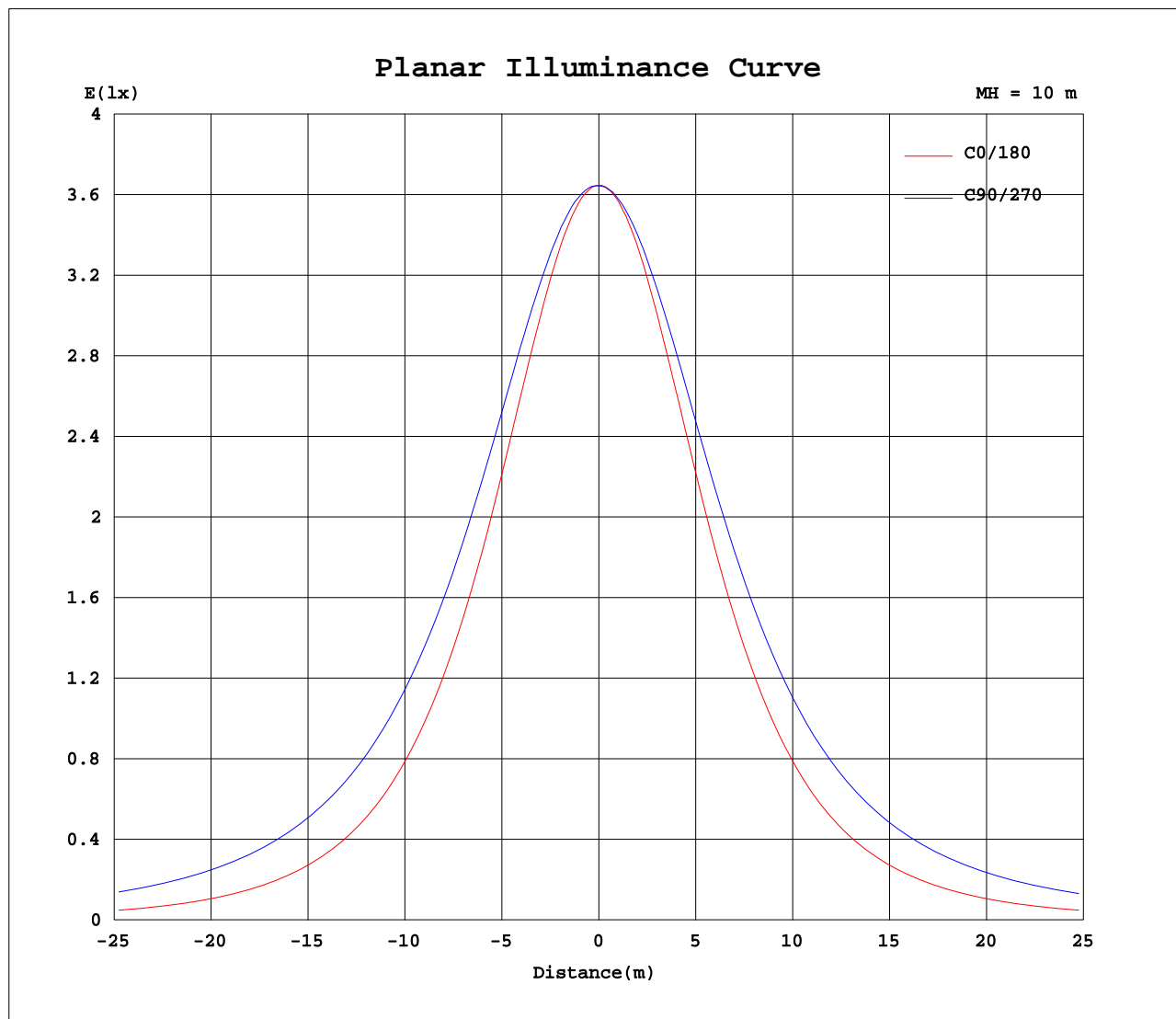
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 7303  |
| L_0~180(75)av  | 5779  |
| L_0~180(85)av  | 2773  |
| L_90~270(65)av | 17774 |
| L_90~270(75)av | 25802 |
| L_90~270(85)av | 66906 |
| L_45(65)av     | 13681 |
| L_45(75)av     | 18696 |
| L_45(85)av     | 45868 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24.9DEG  
Operators:Alan Wang  
Test Date:27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity:41.5%  
Test Distance:2.500m [K=1.0250]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.9DEG  
Operators: Alan Wang  
Test Date: 27 December 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.5%  
Test Distance: 2.500m [K=1.0250]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 365  | 364  | 365  | 365  | 365  | 365  | 364  | 365  | 365  | 365  | 365  | 365  | 365  | 364  | 365  | 365  | 365  | 365  | 364  |
| 5                 | 363  | 362  | 363  | 364  | 364  | 365  | 365  | 364  | 364  | 364  | 363  | 363  | 363  | 362  | 363  | 363  | 363  | 364  | 364  |
| 10                | 356  | 357  | 358  | 360  | 362  | 363  | 364  | 363  | 362  | 360  | 359  | 357  | 357  | 357  | 358  | 359  | 360  | 361  | 361  |
| 15                | 346  | 347  | 350  | 354  | 358  | 361  | 361  | 360  | 358  | 355  | 351  | 348  | 347  | 347  | 350  | 353  | 355  | 358  | 358  |
| 20                | 332  | 334  | 339  | 346  | 352  | 357  | 358  | 357  | 352  | 346  | 340  | 335  | 333  | 334  | 338  | 344  | 349  | 353  | 354  |
| 25                | 315  | 318  | 326  | 336  | 345  | 352  | 354  | 351  | 345  | 336  | 326  | 319  | 316  | 318  | 324  | 332  | 341  | 346  | 348  |
| 30                | 295  | 300  | 310  | 324  | 336  | 345  | 348  | 345  | 336  | 323  | 310  | 300  | 296  | 299  | 308  | 320  | 331  | 339  | 341  |
| 35                | 273  | 278  | 292  | 310  | 326  | 337  | 341  | 337  | 326  | 309  | 292  | 278  | 274  | 278  | 290  | 305  | 320  | 330  | 333  |
| 40                | 248  | 256  | 273  | 295  | 315  | 329  | 333  | 328  | 314  | 294  | 272  | 255  | 249  | 255  | 270  | 290  | 307  | 319  | 323  |
| 45                | 222  | 231  | 253  | 278  | 302  | 318  | 324  | 318  | 301  | 277  | 251  | 231  | 223  | 230  | 250  | 273  | 294  | 308  | 312  |
| 50                | 195  | 206  | 231  | 262  | 289  | 307  | 313  | 306  | 288  | 260  | 230  | 205  | 195  | 204  | 229  | 256  | 279  | 295  | 300  |
| 55                | 167  | 180  | 210  | 245  | 274  | 294  | 301  | 293  | 273  | 243  | 208  | 179  | 167  | 179  | 206  | 238  | 264  | 281  | 287  |
| 60                | 138  | 154  | 189  | 227  | 259  | 280  | 287  | 279  | 258  | 226  | 187  | 153  | 138  | 153  | 185  | 220  | 249  | 267  | 273  |
| 65                | 109  | 129  | 169  | 210  | 244  | 266  | 273  | 265  | 243  | 208  | 166  | 127  | 109  | 128  | 165  | 202  | 233  | 252  | 258  |
| 70                | 80.4 | 104  | 149  | 193  | 229  | 252  | 259  | 251  | 227  | 191  | 147  | 102  | 80.5 | 103  | 145  | 185  | 217  | 237  | 244  |
| 75                | 52.9 | 81.4 | 131  | 177  | 213  | 237  | 244  | 236  | 212  | 175  | 128  | 79.2 | 53.0 | 81.0 | 126  | 168  | 201  | 222  | 229  |
| 80                | 27.9 | 61.7 | 114  | 162  | 199  | 222  | 230  | 221  | 197  | 160  | 112  | 59.5 | 28.1 | 61.4 | 110  | 153  | 186  | 207  | 213  |
| 85                | 8.73 | 45.8 | 99.4 | 147  | 184  | 207  | 214  | 206  | 183  | 145  | 97.2 | 43.7 | 8.39 | 45.5 | 95.0 | 138  | 172  | 192  | 198  |
| 90                | 0.38 | 35.0 | 87.0 | 134  | 170  | 193  | 200  | 192  | 169  | 132  | 84.9 | 33.2 | 0.40 | 34.7 | 82.7 | 125  | 158  | 178  | 184  |
| 95                | 0.95 | 28.7 | 76.9 | 122  | 157  | 178  | 186  | 178  | 155  | 120  | 74.9 | 27.2 | 0.96 | 27.9 | 72.4 | 113  | 144  | 164  | 170  |
| 100               | 1.79 | 24.5 | 68.6 | 111  | 144  | 165  | 171  | 164  | 143  | 109  | 66.9 | 23.3 | 1.77 | 23.5 | 64.1 | 102  | 132  | 150  | 156  |
| 105               | 2.97 | 20.9 | 61.5 | 101  | 132  | 151  | 158  | 151  | 131  | 99.4 | 60.1 | 19.9 | 2.94 | 19.6 | 57.0 | 92.4 | 120  | 137  | 143  |
| 110               | 4.59 | 18.1 | 55.0 | 91.2 | 120  | 138  | 144  | 138  | 119  | 90.0 | 53.8 | 17.3 | 4.51 | 16.3 | 50.4 | 83.2 | 109  | 125  | 130  |
| 115               | 6.71 | 17.6 | 49.2 | 82.1 | 109  | 126  | 131  | 125  | 108  | 81.0 | 48.2 | 17.1 | 6.50 | 15.6 | 44.4 | 74.3 | 98.1 | 113  | 118  |
| 120               | 8.92 | 18.2 | 43.9 | 73.4 | 97.3 | 113  | 118  | 112  | 96.9 | 72.6 | 43.1 | 17.8 | 8.64 | 15.6 | 39.0 | 65.9 | 87.5 | 101  | 106  |
| 125               | 11.0 | 19.0 | 39.0 | 65.1 | 86.4 | 100  | 105  | 100  | 86.0 | 64.5 | 38.4 | 18.7 | 10.9 | 15.3 | 34.1 | 57.9 | 77.2 | 89.4 | 93.4 |
| 130               | 13.1 | 19.9 | 35.5 | 57.4 | 76.1 | 88.2 | 92.5 | 88.1 | 75.7 | 57.0 | 35.2 | 19.6 | 12.8 | 15.4 | 31.0 | 50.4 | 67.3 | 78.2 | 81.6 |
| 135               | 14.9 | 20.6 | 33.2 | 50.0 | 66.2 | 76.8 | 80.5 | 76.7 | 66.0 | 49.8 | 32.9 | 20.4 | 14.6 | 17.2 | 28.7 | 43.3 | 57.9 | 67.3 | 70.4 |
| 140               | 16.5 | 21.3 | 31.2 | 44.1 | 56.8 | 65.8 | 69.0 | 65.8 | 56.7 | 43.9 | 31.0 | 21.1 | 16.2 | 17.4 | 26.5 | 38.1 | 49.0 | 57.0 | 59.7 |
| 145               | 18.0 | 21.8 | 29.5 | 39.4 | 48.8 | 55.6 | 58.2 | 55.5 | 48.7 | 39.3 | 29.4 | 21.7 | 17.8 | 18.4 | 23.6 | 33.7 | 41.9 | 47.7 | 49.7 |
| 150               | 19.4 | 22.2 | 28.2 | 35.5 | 42.6 | 47.5 | 49.3 | 47.5 | 42.6 | 35.5 | 28.2 | 22.2 | 19.2 | 18.4 | 21.2 | 29.9 | 36.1 | 40.5 | 42.1 |
| 155               | 20.2 | 22.6 | 27.2 | 32.3 | 37.3 | 41.0 | 42.3 | 41.0 | 37.4 | 32.3 | 27.2 | 22.6 | 20.3 | 18.0 | 23.0 | 25.9 | 31.2 | 34.5 | 36.0 |
| 160               | 20.6 | 22.7 | 26.3 | 29.8 | 33.0 | 35.4 | 36.3 | 35.5 | 33.1 | 29.8 | 26.3 | 22.4 | 21.3 | 17.9 | 22.5 | 23.7 | 27.3 | 29.8 | 31.1 |
| 165               | 18.8 | 20.5 | 25.6 | 27.7 | 29.5 | 30.9 | 31.4 | 31.0 | 29.6 | 27.7 | 25.0 | 19.8 | 19.3 | 17.3 | 19.8 | 23.4 | 23.9 | 26.4 | 27.3 |
| 170               | 15.4 | 16.0 | 22.3 | 25.5 | 26.8 | 27.5 | 27.7 | 27.5 | 26.5 | 21.5 | 17.9 | 15.6 | 15.4 | 15.3 | 14.8 | 16.8 | 20.6 | 23.0 | 24.0 |
| 175               | 12.9 | 13.0 | 13.7 | 15.4 | 21.8 | 23.8 | 22.6 | 21.2 | 13.9 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.6 | 12.5 | 12.4 | 13.2 | 17.8 |
| 180               | 19.6 | 19.2 | 17.5 | 13.9 | 12.7 | 4.13 | 0.00 | 8.19 | 10.8 | 15.4 | 17.6 | 19.3 | 18.4 | 18.3 | 17.9 | 16.5 | 14.1 | 10.7 | 6.42 |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:24.9DEG

Operators:Alan Wang

Test Date:27 December 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

Humidity:41.5%

Test Distance:2.500m [K=1.0250]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |          |                  |
|--|----------|------------------|
| Test:U:120.0V I:0.2500A P:26.11W PF:0.8703 Freq:60.00Hz Lamp Flux:1813.79x1 lm |          |                  |
| NAME:  | TYPE:LED | WEIGHT:          |
| SPEC.:   | DIM.:    | SERIAL No.:      |
| MFR.: ETi Solid State Lighting, Inc  | SUR.:    | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG)<br>γ (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 365  | 365  | 365  | 365  | 365  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 363  | 363  | 363  | 363  | 363  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 361  | 360  | 359  | 357  | 357  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 357  | 355  | 352  | 349  | 347  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 352  | 348  | 343  | 337  | 334  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 346  | 339  | 332  | 323  | 318  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 338  | 330  | 318  | 307  | 299  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 329  | 318  | 304  | 288  | 277  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 318  | 305  | 288  | 268  | 254  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 306  | 292  | 271  | 247  | 230  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 294  | 277  | 253  | 226  | 204  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 280  | 262  | 235  | 204  | 177  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 265  | 246  | 217  | 182  | 151  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 251  | 230  | 198  | 161  | 126  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 236  | 214  | 181  | 141  | 101  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 221  | 199  | 165  | 122  | 78.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 205  | 183  | 149  | 106  | 57.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 190  | 169  | 135  | 91.0 | 41.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 176  | 155  | 122  | 78.6 | 30.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 162  | 142  | 110  | 68.4 | 24.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 149  | 130  | 99.0 | 60.3 | 20.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 136  | 118  | 89.4 | 53.5 | 16.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 124  | 107  | 80.5 | 47.1 | 14.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 112  | 96.2 | 71.7 | 41.4 | 13.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 100  | 85.7 | 63.5 | 36.3 | 14.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 88.6 | 75.6 | 55.8 | 31.8 | 14.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 77.3 | 65.9 | 48.5 | 28.9 | 15.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 66.6 | 56.7 | 41.8 | 26.7 | 16.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 56.6 | 48.2 | 36.7 | 25.2 | 16.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 47.5 | 41.4 | 32.7 | 23.5 | 16.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 40.6 | 36.3 | 30.0 | 23.4 | 18.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 35.2 | 32.4 | 28.4 | 23.8 | 19.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 31.0 | 29.5 | 27.1 | 23.8 | 20.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 27.5 | 26.9 | 25.7 | 23.9 | 21.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 24.9 | 24.9 | 24.5 | 22.5 | 17.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 18.9 | 19.6 | 19.0 | 14.3 | 13.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 6.43 | 7.05 | 10.6 | 14.3 | 16.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:24.9DEG

Operators:Alan Wang

Test Date:27 December 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

Humidity:41.5%

Test Distance:2.500m [K=1.0250]

Remarks: