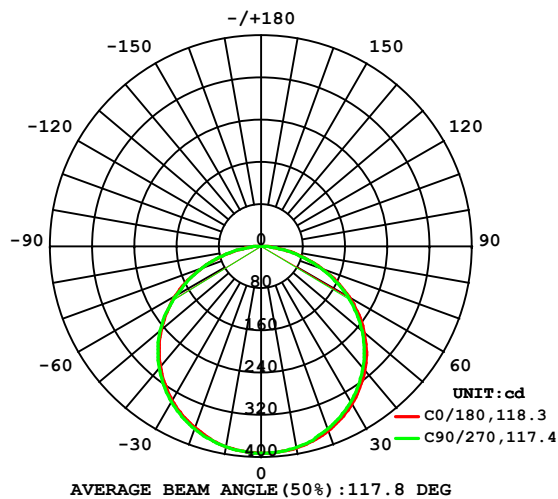


## LUMINAIRE PHOTOMETRIC TEST REPORT

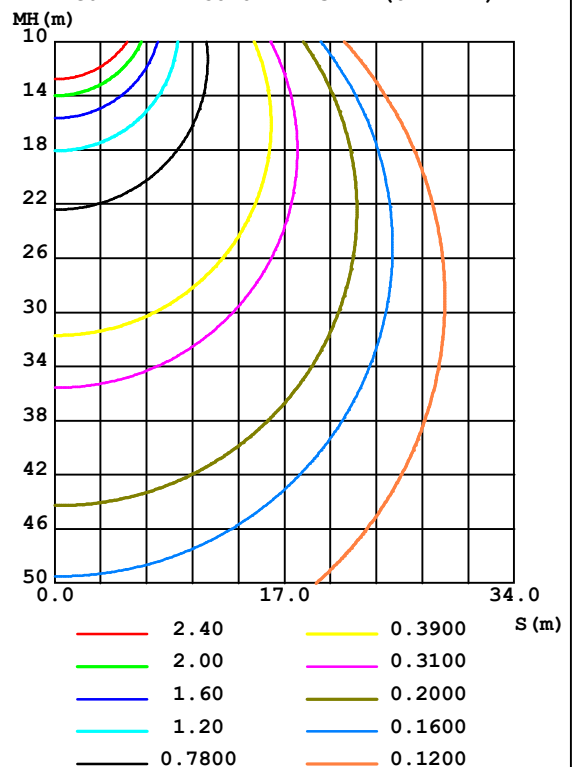
|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

| DATA OF LAMP     |                    | PHOTOMETRIC DATA Eff: 80.69 lm/W |        |                   |          |
|------------------|--------------------|----------------------------------|--------|-------------------|----------|
| MODEL            | 2835L-12V-G02-2765 | I <sub>max</sub> (cd)            | 392.2  | S/MH(C0/180)      | 1.28     |
| NOMINAL POWER(W) |                    | LOR(%)                           | 100.0  | S/MH(C90/270)     | 1.29     |
| RATED VOLTAGE(V) | 12                 | TOTAL FLUX(lm)                   | 1186.6 | η UP,DN(C0-180)   | 0.0,50.4 |
| NOMINAL FLUX(lm) | 1186.59            | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.0,49.6 |
| LAMPS INSIDE     | 1                  | η up(%)                          | 0.0    | CIBSE SHR NOM     | 1.50     |
| TEST VOLTAGE(V)  | 12                 | η down(%)                        | 100.0  | CIBSE SHR MAX     | 1.50     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-08-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:9.690m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C90   | C180  | C270  |  |  |  |  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|--|--|--|--|----------|-------------|--------------|------------|
| 10       | 388.2                 | 387.1 | 385.6 | 386.2 |  |  |  |  | 0- 10    | 37.18       | 37.18        | 3.13,3.13  |
| 20       | 372.6                 | 368.7 | 366.3 | 368.8 |  |  |  |  | 10- 20   | 107.1       | 144.3        | 12.2,12.2  |
| 30       | 345.5                 | 340.5 | 337.5 | 340.4 |  |  |  |  | 20- 30   | 164.4       | 308.7        | 26,26      |
| 40       | 306.7                 | 301.0 | 297.9 | 301.0 |  |  |  |  | 30- 40   | 201.9       | 510.6        | 43,43      |
| 50       | 256.2                 | 250.3 | 247.7 | 250.5 |  |  |  |  | 40- 50   | 214.2       | 724.8        | 61.1,61.1  |
| 60       | 193.3                 | 189.1 | 187.6 | 185.5 |  |  |  |  | 50- 60   | 197.7       | 922.5        | 77.7,77.7  |
| 70       | 122.4                 | 119.3 | 118.2 | 117.4 |  |  |  |  | 60- 70   | 153.0       | 1076         | 90.6,90.6  |
| 80       | 50.15                 | 47.92 | 47.24 | 48.71 |  |  |  |  | 70- 80   | 87.95       | 1163         | 98.1,98.1  |
| 90       | 2.040                 | 1.309 | 1.719 | 2.706 |  |  |  |  | 80- 90   | 23.13       | 1187         | 100,100    |
| 100      |                       |       |       |       |  |  |  |  | 90-100   |             |              |            |
| 110      |                       |       |       |       |  |  |  |  | 100-110  |             |              |            |
| 120      |                       |       |       |       |  |  |  |  | 110-120  |             |              |            |
| 130      |                       |       |       |       |  |  |  |  | 120-130  |             |              |            |
| 140      |                       |       |       |       |  |  |  |  | 130-140  |             |              |            |
| 150      |                       |       |       |       |  |  |  |  | 140-150  |             |              |            |
| 160      |                       |       |       |       |  |  |  |  | 150-160  |             |              |            |
| 170      |                       |       |       |       |  |  |  |  | 160-170  |             |              |            |
| 180      |                       |       |       |       |  |  |  |  | 170-180  |             |              |            |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |  |  |  |  |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 617.89 lm

%lum = 52.1%

%lamp = 52.1%

Conical surface Flux(120deg): 922.48 lm

%lum = 77.7%

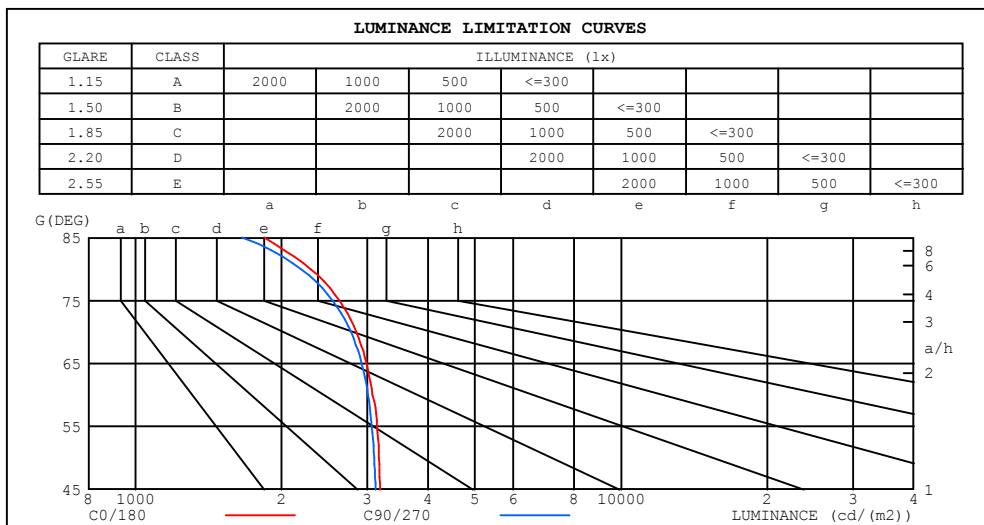
%lamp = 77.7%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:9.690m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 1841   | 1657    |
| 80                | 2299   | 2198    |
| 75                | 2631   | 2545    |
| 70                | 2849   | 2777    |
| 65                | 2989   | 2921    |
| 60                | 3078   | 3011    |
| 55                | 3144   | 3068    |
| 50                | 3172   | 3101    |
| 45                | 3185   | 3119    |

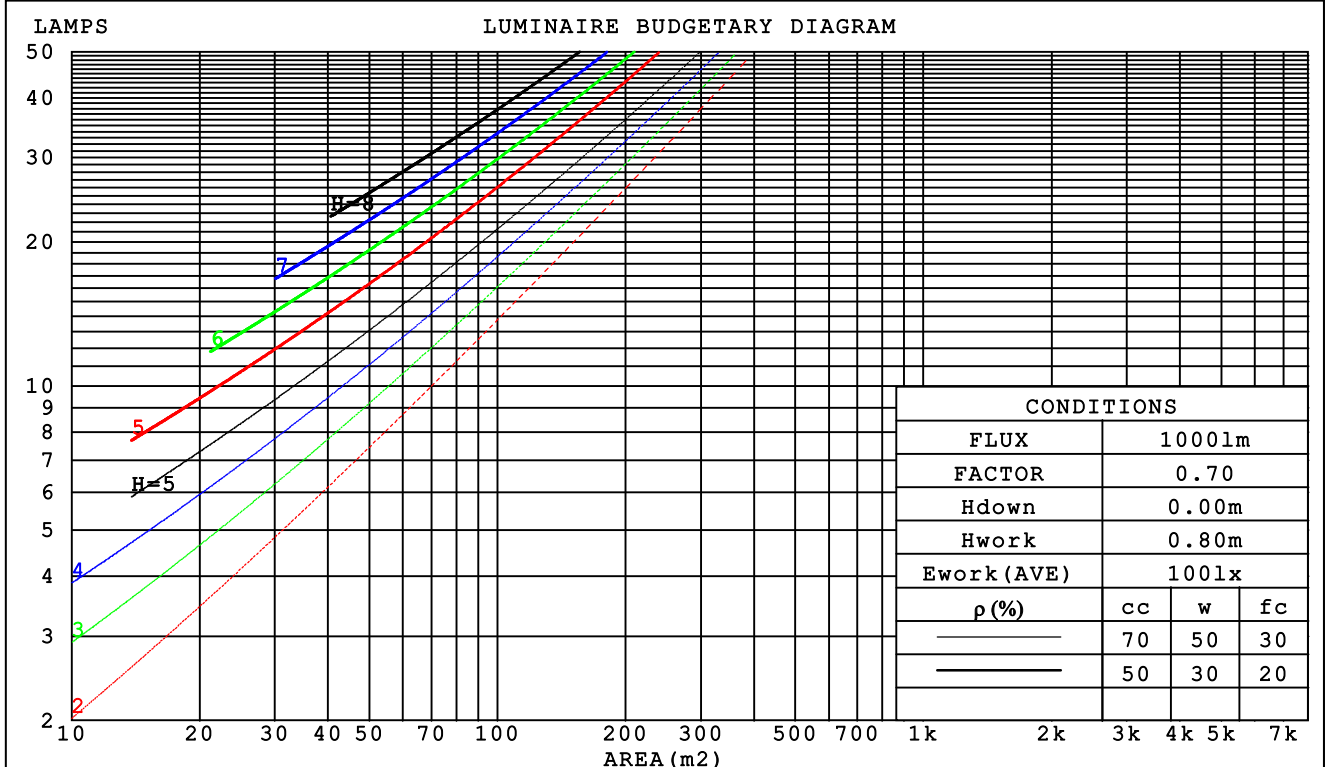
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-08-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 9.690m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | 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 |      |      | 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 | 1.00 |
| 1.0  | 1.04                  | .99  | .95  | 1.01                            | .97  | .94  | .97  | .94  | .91  | .93  | .90  | .88  | .90  | .87  | .85  | .83  |
| 2.0  | .90                   | .83  | .77  | .88                             | .82  | .76  | .84  | .79  | .74  | .81  | .77  | .73  | .78  | .74  | .71  | .69  |
| 3.0  | .79                   | .70  | .64  | .77                             | .69  | .63  | .74  | .67  | .62  | .71  | .66  | .61  | .69  | .64  | .60  | .58  |
| 4.0  | .70                   | .61  | .54  | .68                             | .60  | .53  | .66  | .58  | .53  | .63  | .57  | .52  | .61  | .56  | .51  | .49  |
| 5.0  | .62                   | .53  | .46  | .61                             | .52  | .46  | .59  | .51  | .45  | .57  | .50  | .45  | .55  | .49  | .44  | .42  |
| 6.0  | .56                   | .47  | .40  | .55                             | .46  | .40  | .53  | .45  | .39  | .51  | .44  | .39  | .50  | .44  | .39  | .37  |
| 7.0  | .50                   | .41  | .35  | .50                             | .41  | .35  | .48  | .40  | .35  | .47  | .40  | .35  | .45  | .39  | .34  | .32  |
| 8.0  | .46                   | .37  | .31  | .45                             | .37  | .31  | .44  | .36  | .31  | .43  | .36  | .31  | .41  | .35  | .31  | .29  |
| 9.0  | .42                   | .34  | .28  | .41                             | .34  | .28  | .40  | .33  | .28  | .39  | .33  | .28  | .38  | .32  | .28  | .26  |
| 10.0 | .39                   | .31  | .25  | .38                             | .31  | .25  | .37  | .30  | .25  | .36  | .30  | .25  | .35  | .29  | .25  | .23  |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-08-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:9.690m [K=1.0000]  
Remarks:

## WEC AND CCEC

|  |  |  |       |  |                  |
|--|--|--|-------|--|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |  |  |       |  |                  |
| NAME: W+C  |  |  | TYPE: |  | WEIGHT:          |
| SPEC.:   |  |  | DIM.: |  | SERIAL No.:      |
| MFR.:  |  |  | SUR.: |  | Shielding Angle: |

|             |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_{cc}$ | 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         | .315                  | .179 | .057 | .308 | .176 | .056 | .295                            | .169 | .054 | .283 | .163 | .052 | .271 | .157 | .051 |   |
| 2.0         | .296                  | .162 | .050 | .290 | .160 | .049 | .278                            | .155 | .048 | .268 | .150 | .047 | .258 | .146 | .046 |   |
| 3.0         | .274                  | .146 | .044 | .269 | .144 | .043 | .258                            | .140 | .043 | .249 | .136 | .042 | .240 | .133 | .041 |   |
| 4.0         | .253                  | .131 | .039 | .248 | .130 | .038 | .239                            | .127 | .038 | .230 | .123 | .037 | .222 | .121 | .037 |   |
| 5.0         | .233                  | .119 | .034 | .229 | .118 | .034 | .221                            | .115 | .034 | .213 | .112 | .033 | .206 | .110 | .033 |   |
| 6.0         | .216                  | .108 | .031 | .212 | .107 | .031 | .205                            | .105 | .031 | .198 | .103 | .030 | .192 | .101 | .030 |   |
| 7.0         | .201                  | .099 | .028 | .198 | .098 | .028 | .191                            | .097 | .028 | .185 | .095 | .028 | .179 | .093 | .027 |   |
| 8.0         | .188                  | .092 | .026 | .185 | .091 | .026 | .179                            | .089 | .025 | .173 | .088 | .025 | .168 | .086 | .025 |   |
| 9.0         | .176                  | .085 | .024 | .173 | .084 | .024 | .168                            | .083 | .023 | .163 | .082 | .023 | .158 | .080 | .023 |   |
| 10.0        | .165                  | .079 | .022 | .163 | .079 | .022 | .158                            | .077 | .022 | .153 | .076 | .022 | .149 | .075 | .022 |   |

|             |                       |      |      |      |      |      |  |      |      |      |      |      |      |      |      |   |
|-------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| $\rho_{cc}$ | 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         | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0         | .181                  | .156 | .134 | .155 | .134 | .115 | .106                                       | .092 | .080 | .061 | .053 | .046 | .019 | .017 | .015 |   |
| 2.0         | .173                  | .132 | .097 | .148 | .114 | .084 | .101                                       | .079 | .059 | .059 | .046 | .034 | .019 | .015 | .011 |   |
| 3.0         | .165                  | .114 | .074 | .142 | .099 | .064 | .097                                       | .069 | .045 | .056 | .040 | .026 | .018 | .013 | .009 |   |
| 4.0         | .158                  | .101 | .058 | .135 | .087 | .050 | .093                                       | .061 | .035 | .054 | .036 | .021 | .017 | .012 | .007 |   |
| 5.0         | .150                  | .091 | .047 | .129 | .078 | .041 | .089                                       | .055 | .029 | .052 | .032 | .017 | .017 | .011 | .006 |   |
| 6.0         | .143                  | .082 | .039 | .123 | .071 | .034 | .085                                       | .050 | .024 | .049 | .029 | .014 | .016 | .010 | .005 |   |
| 7.0         | .136                  | .075 | .033 | .117 | .065 | .029 | .081                                       | .046 | .020 | .047 | .027 | .012 | .015 | .009 | .004 |   |
| 8.0         | .130                  | .070 | .028 | .112 | .060 | .025 | .077                                       | .042 | .018 | .045 | .025 | .010 | .015 | .008 | .003 |   |
| 9.0         | .124                  | .065 | .025 | .106 | .056 | .022 | .074                                       | .039 | .015 | .043 | .023 | .009 | .014 | .008 | .003 |   |
| 10.0        | .118                  | .060 | .022 | .102 | .053 | .019 | .070                                       | .037 | .014 | .041 | .022 | .008 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:9.690m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|  |               |                  |      |      |      |               |                |      |                  |      |      |
|--|---------------|------------------|------|------|------|---------------|----------------|------|------------------|------|------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |               |                  |      |      |      |               |                |      |                  |      |      |
| NAME: W+C  |               |                  |      |      |      | TYPE:         |                |      | WEIGHT:          |      |      |
| SPEC.:   |               |                  |      |      |      | DIM.:         |                |      | SERIAL No.:      |      |      |
| MFR.:  |               |                  |      |      |      | 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  | 16.4          | 17.9             | 16.7 | 18.1 | 18.3 | 16.3          | 17.8           | 16.6 | 18.0             | 18.2 |      |
|  | 3H            | 18.0             | 19.4 | 18.3 | 19.6 | 19.9          | 17.9           | 19.3 | 18.2             | 19.5 | 19.8 |
|  | 4H            | 18.6             | 20.0 | 18.9 | 20.2 | 20.5          | 18.5           | 19.8 | 18.8             | 20.1 | 20.3 |
|  | 6H            | 19.0             | 20.3 | 19.4 | 20.6 | 20.9          | 18.9           | 20.2 | 19.2             | 20.4 | 20.7 |
|  | 8H            | 19.1             | 20.4 | 19.5 | 20.7 | 21.0          | 19.0           | 20.2 | 19.3             | 20.5 | 20.8 |
|  | 12H           | 19.2             | 20.4 | 19.6 | 20.7 | 21.0          | 19.0           | 20.2 | 19.4             | 20.5 | 20.8 |
| 4H   | 2H            | 17.0             | 18.4 | 17.3 | 18.6 | 18.9          | 16.9           | 18.3 | 17.3             | 18.6 | 18.8 |
|  | 3H            | 18.8             | 20.0 | 19.1 | 20.3 | 20.6          | 18.7           | 19.9 | 19.0             | 20.2 | 20.5 |
|  | 4H            | 19.5             | 20.6 | 19.9 | 20.9 | 21.3          | 19.4           | 20.5 | 19.8             | 20.8 | 21.2 |
|  | 6H            | 20.1             | 21.0 | 20.5 | 21.4 | 21.8          | 19.9           | 20.9 | 20.3             | 21.3 | 21.6 |
|  | 8H            | 20.2             | 21.1 | 20.7 | 21.5 | 21.9          | 20.1           | 21.0 | 20.5             | 21.4 | 21.8 |
|  | 12H           | 20.3             | 21.2 | 20.8 | 21.6 | 22.0          | 20.2           | 21.0 | 20.6             | 21.4 | 21.8 |
| 8H   | 4H            | 19.8             | 20.7 | 20.2 | 21.1 | 21.4          | 19.7           | 20.6 | 20.1             | 21.0 | 21.3 |
|  | 6H            | 20.5             | 21.2 | 20.9 | 21.6 | 22.1          | 20.4           | 21.1 | 20.8             | 21.5 | 21.9 |
|  | 8H            | 20.7             | 21.4 | 21.2 | 21.8 | 22.3          | 20.6           | 21.3 | 21.1             | 21.7 | 22.1 |
|  | 12H           | 20.9             | 21.5 | 21.4 | 21.9 | 22.4          | 20.8           | 21.3 | 21.2             | 21.8 | 22.2 |
| 12H  | 4H            | 19.8             | 20.6 | 20.2 | 21.0 | 21.4          | 19.7           | 20.5 | 20.1             | 20.9 | 21.3 |
|  | 6H            | 20.5             | 21.2 | 21.0 | 21.6 | 22.1          | 20.4           | 21.1 | 20.9             | 21.5 | 22.0 |
|  | 8H            | 20.8             | 21.4 | 21.3 | 21.8 | 22.3          | 20.7           | 21.3 | 21.2             | 21.7 | 22.2 |
| Variations with the observer position at spacings:                           |               |                  |      |      |      |               |                |      |                  |      |      |
| S = 1.0H   | + 0.1 / - 0.2 |                  |      |      |      | + 0.1 / - 0.2 |                |      |                  |      |      |
| 1.5H   | + 0.2 / - 0.3 |                  |      |      |      | + 0.2 / - 0.3 |                |      |                  |      |      |
| 2.0H   | + 0.2 / - 0.3 |                  |      |      |      | + 0.2 / - 0.3 |                |      |                  |      |      |

CIE Pub.117, 1187 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 0.6$ )

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-08-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:9.690m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

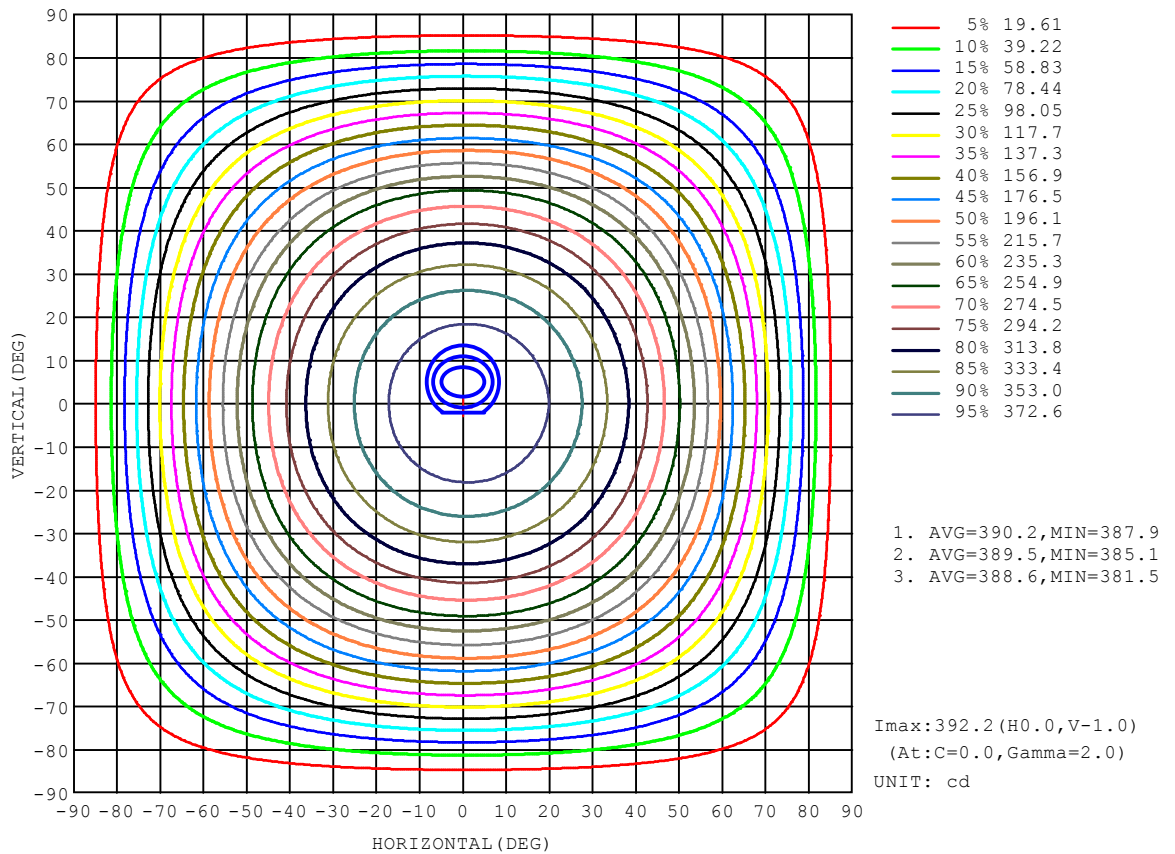
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 57   | 45  | 38        | 56  | 45  | 38  | 55  | 44            | 37  | 31     |
| 0.80                             | 67   | 55  | 47        | 66  | 54  | 47  | 64  | 54            | 47  | 40     |
| 1.00                             | 75   | 64  | 56        | 74  | 63  | 56  | 72  | 65            | 56  | 48     |
| 1.25                             | 82   | 72  | 64        | 81  | 71  | 64  | 78  | 69            | 63  | 56     |
| 1.50                             | 87   | 77  | 70        | 86  | 76  | 70  | 83  | 75            | 69  | 61     |
| 2.00                             | 94   | 86  | 79        | 93  | 84  | 78  | 89  | 82            | 77  | 69     |
| 2.50                             | 98   | 90  | 84        | 96  | 89  | 83  | 92  | 86            | 82  | 73     |
| 3.00                             | 102  | 95  | 89        | 100 | 93  | 88  | 96  | 90            | 86  | 77     |
| 4.00                             | 106  | 100 | 95        | 104 | 98  | 94  | 99  | 95            | 91  | 82     |
| 5.00                             | 108  | 104 | 99        | 106 | 102 | 98  | 101 | 98            | 95  | 86     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 9.690m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



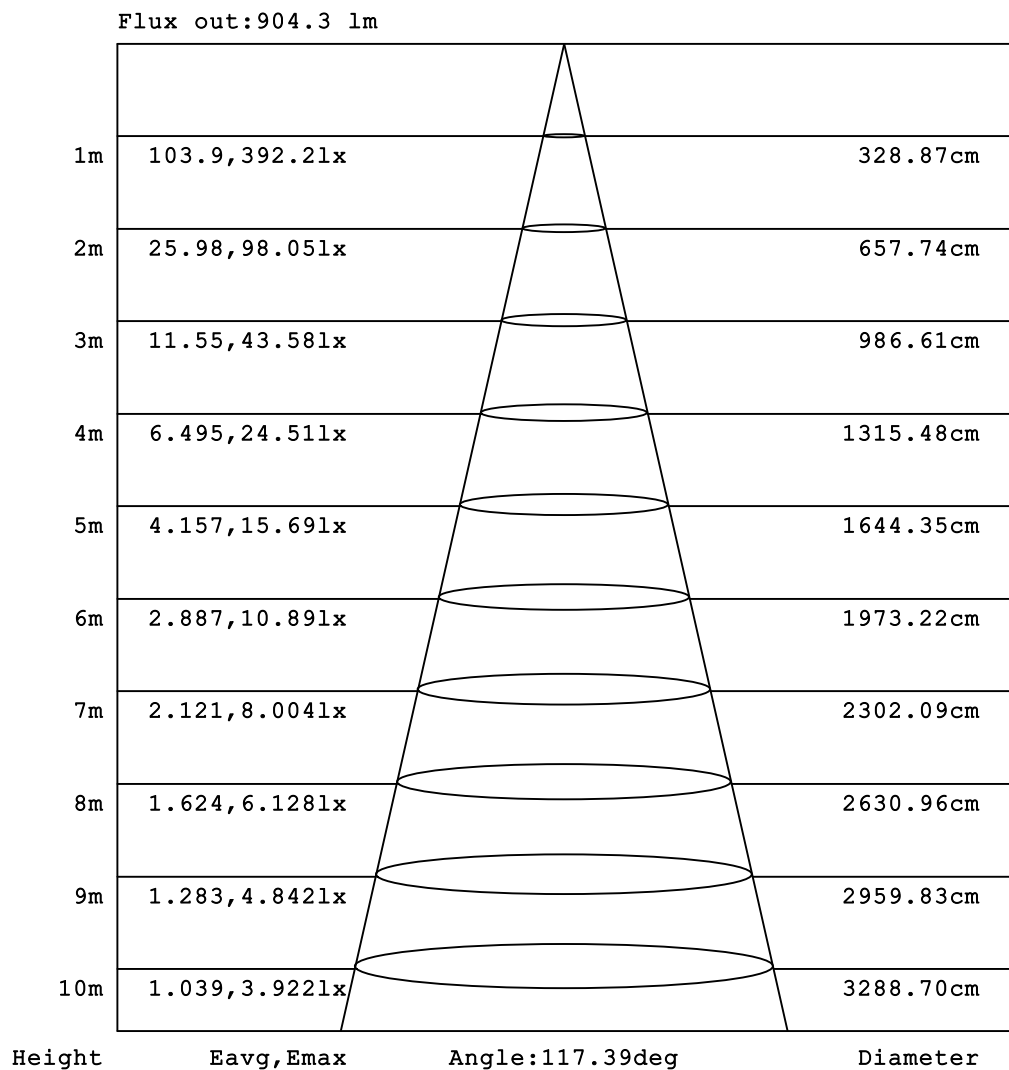
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-08-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 9.690m [K=1.0000]  
Remarks:



## AAI Figure

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



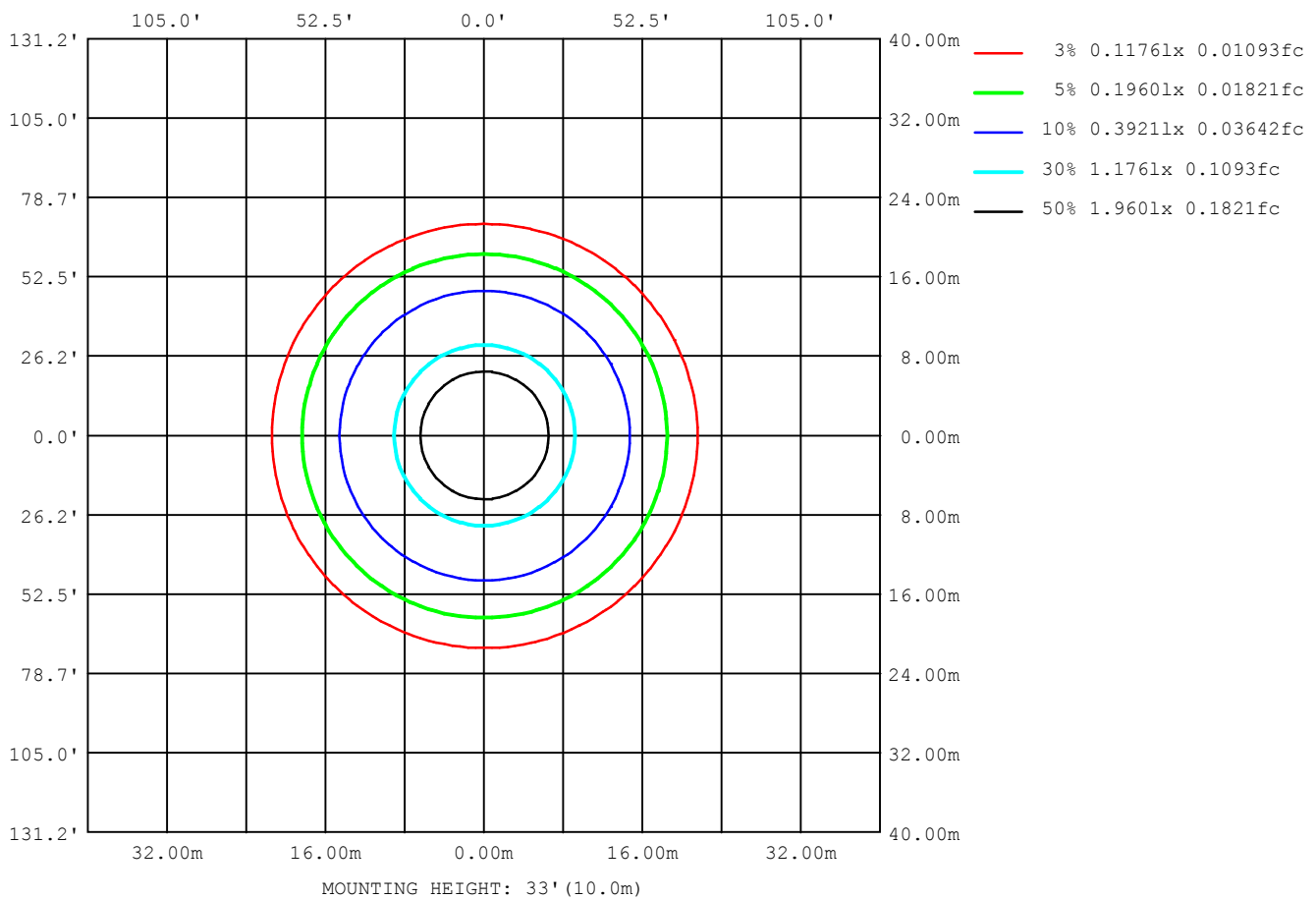
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 9.690m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-08-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 9.690m [K=1.0000]  
Remarks:

## LED Avg.L Report

|  |       |                  |
|--|-------|------------------|
| Test:U:12.00V I:1.226A P:14.71W PF:1.000 Freq:49.99Hz Lamp Flux:1186.59x1 lm |       |                  |
| NAME: W+C  | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

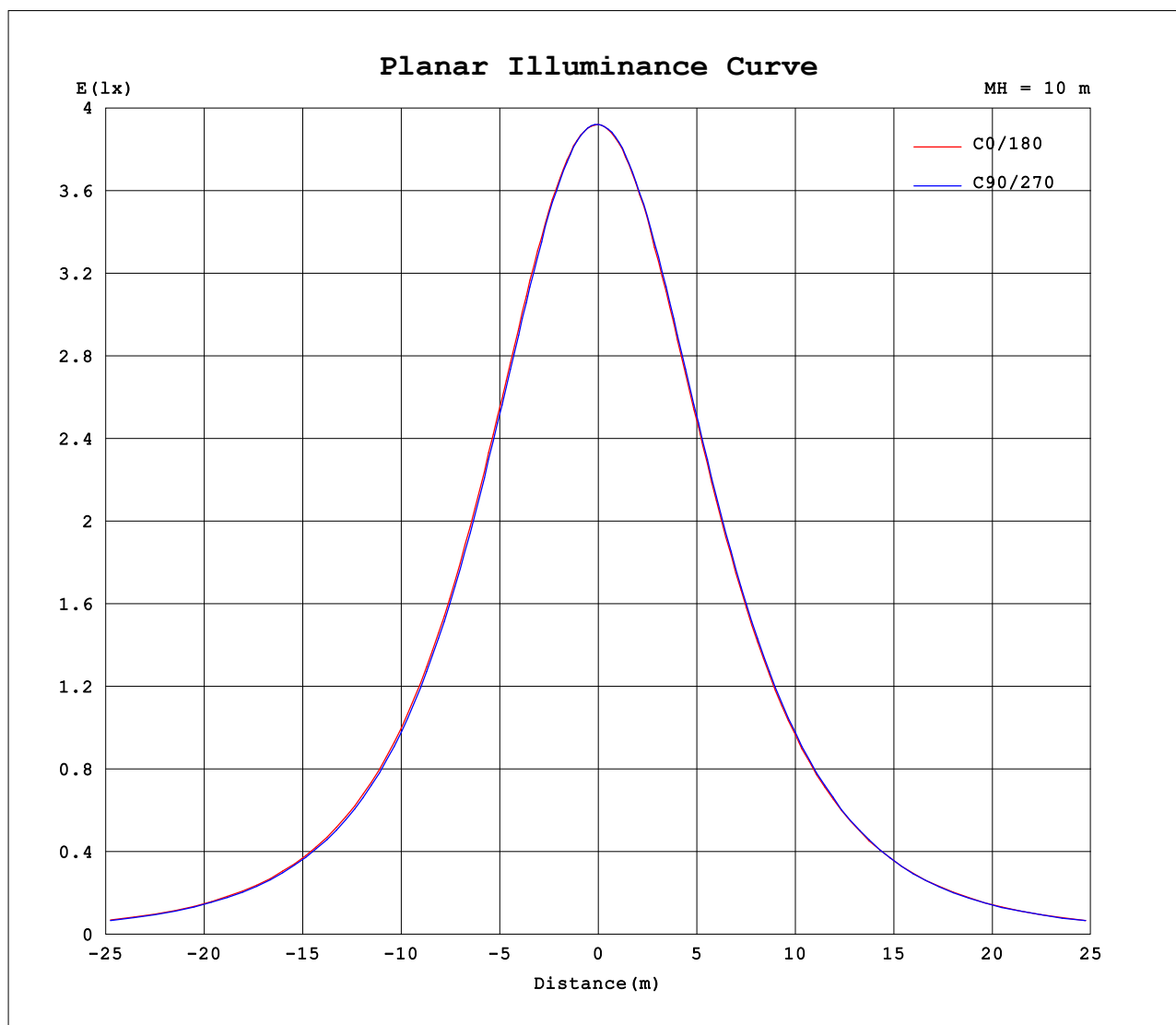
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 2946  |
| L_0~180 (75) av  | 2569  |
| L_0~180 (85) av  | 1794  |
| L_90~270 (65) av | 2892  |
| L_90~270 (75) av | 2549  |
| L_90~270 (85) av | 1737  |
| L_45 (65) av     | 2910  |
| L_45 (75) av     | 2553  |
| L_45 (85) av     | 1755  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-08-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:9.690m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-08-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 9.690m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.690m [K=1.0000]
Remarks:

```