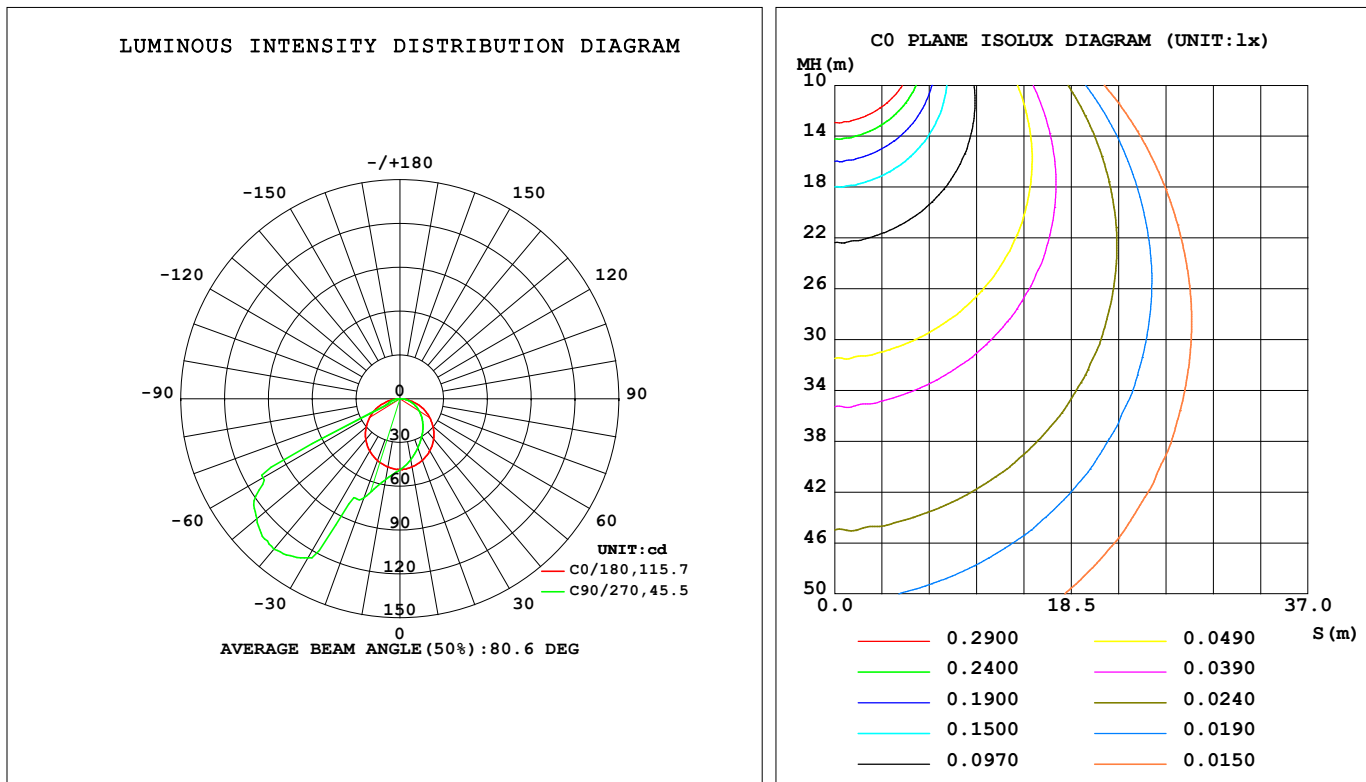


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |

| DATA OF LAMP      |                    | PHOTOMETRIC DATA      |        |                    |          | Eff: 61.27 lm/W |
|-------------------|--------------------|-----------------------|--------|--------------------|----------|-----------------|
| MODEL             | 3x DAR3030 24V 840 | I <sub>max</sub> (cd) | 134.5  | S/MH (C0/180)      | 1.27     |                 |
| NOMINAL POWER (W) |                    | LOR (%)               | 100.0  | S/MH (C90/270)     | 2.57     |                 |
| RATED VOLTAGE (V) | 220.0              | TOTAL FLUX (lm)       | 205.59 | η UP,DN (C0-180)   | 0.0,27.7 |                 |
| NOMINAL FLUX (lm) | 205.59             | CIE CLASS             | DIRECT | η UP,DN (C180-360) | 0.0,72.3 |                 |
| LAMPS INSIDE      | 1                  | η up (%)              | 0.0    | CIBSE SHR NOM      | 1.25     |                 |
| TEST VOLTAGE (V)  | 220.0              | η down (%)            | 100.0  | CIBSE SHR MAX      | 1.30     |                 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [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       | 47.43                 | 43.86  | 42.56  | 44.14  | 47.50  | 52.49 | 56.04 | 52.55 | 0- 10    | 4.628       | 4.628        | 2.25,2.25  |
| 20       | 44.93                 | 38.01  | 35.94  | 38.27  | 45.09  | 58.76 | 72.24 | 58.71 | 10- 20   | 13.76       | 18.38        | 8.94,8.94  |
| 30       | 41.14                 | 32.17  | 30.02  | 32.55  | 41.41  | 67.01 | 125.9 | 66.89 | 20- 30   | 23.35       | 41.74        | 20.3,20.3  |
| 40       | 36.03                 | 26.57  | 24.65  | 26.79  | 36.52  | 99.70 | 134.5 | 99.39 | 30- 40   | 36.19       | 77.93        | 37.9,37.9  |
| 50       | 29.60                 | 20.93  | 19.53  | 21.21  | 30.21  | 93.03 | 128.0 | 91.98 | 40- 50   | 43.50       | 121.4        | 59.1,59.1  |
| 60       | 22.52                 | 15.41  | 14.48  | 15.75  | 23.17  | 74.05 | 108.4 | 71.77 | 50- 60   | 44.05       | 165.5        | 80.5,80.5  |
| 70       | 14.80                 | 9.934  | 9.476  | 10.30  | 15.49  | 36.48 | 8.154 | 27.22 | 60- 70   | 28.23       | 193.7        | 94.2,94.2  |
| 80       | 6.020                 | 4.724  | 4.701  | 5.074  | 6.811  | 4.990 | 3.860 | 4.609 | 70- 80   | 9.305       | 203.0        | 98.7,98.7  |
| 90       | 0.0155                | 0.1026 | 0.3668 | 0.2922 | 0.1195 | 0     | 0     | 0     | 80- 90   | 2.584       | 205.6        | 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): 99.32 lm

%lum = 48.3%

%lamp = 48.3%

Conical surface Flux(120deg): 165.47 lm

%lum = 80.5%

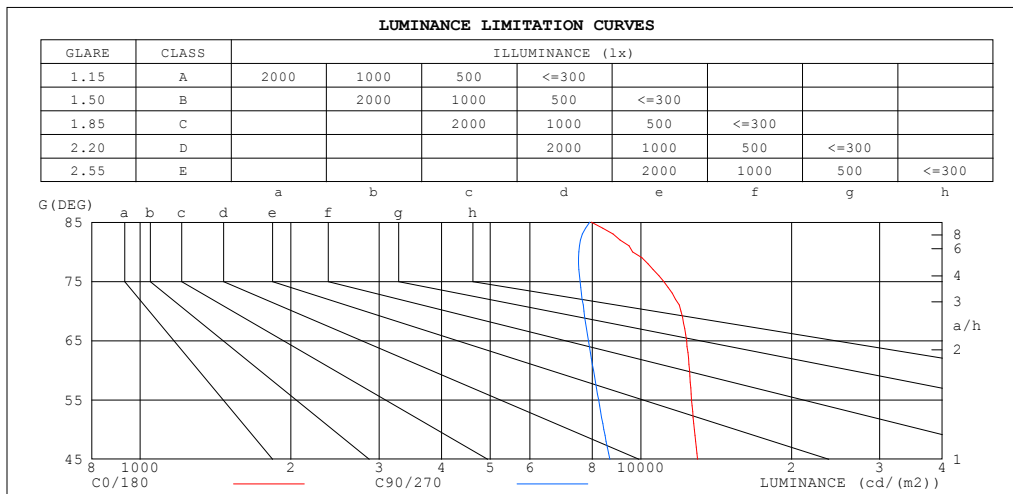
%lamp = 80.5%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 7962   | 7911    |
| 80                | 9630   | 7520    |
| 75                | 11101  | 7561    |
| 70                | 12023  | 7696    |
| 65                | 12344  | 7856    |
| 60                | 12509  | 8044    |
| 55                | 12632  | 8235    |
| 50                | 12793  | 8440    |
| 45                | 12976  | 8671    |

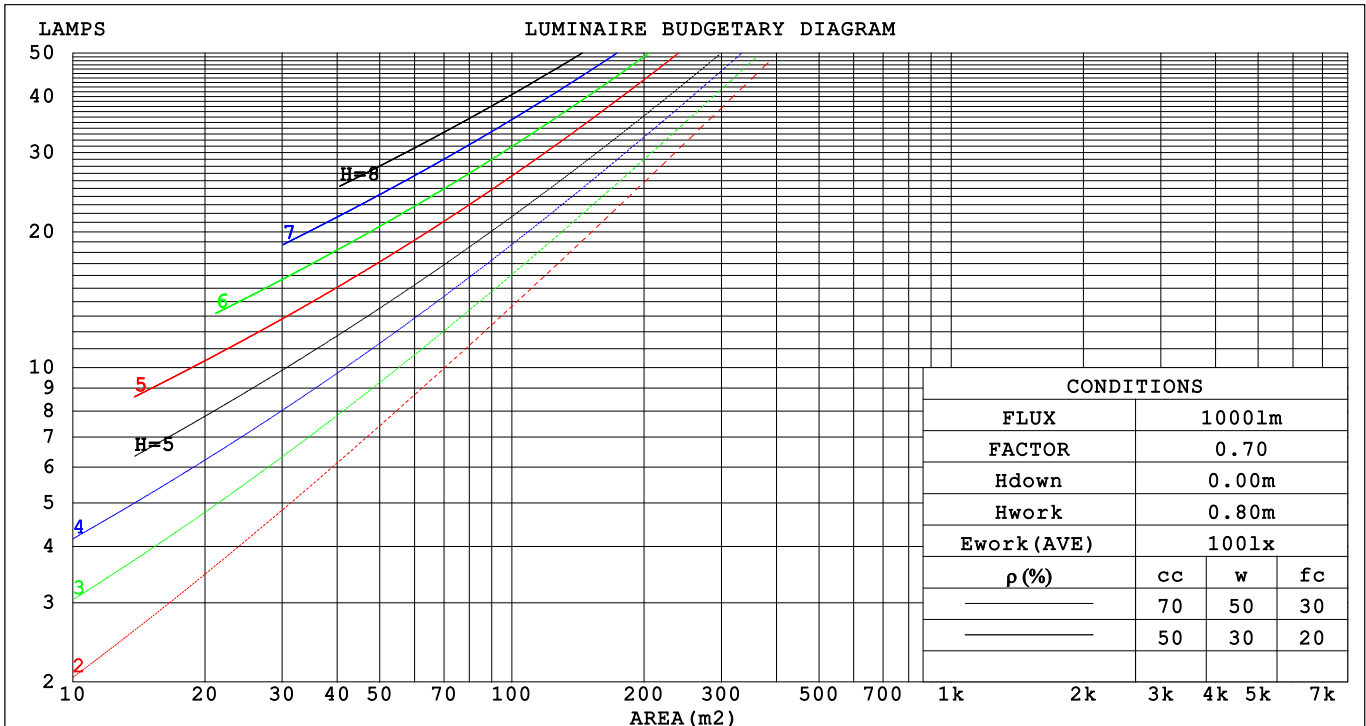
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Ky  
Test Date: 04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.220m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | 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                  | .00  | .96  | 1.02 | .98  | .94  | .98                             | .94  | .91  | .94  | .91  | .89  | .90  | .88  | .86  | .84  |  |
| 2.0  | .90                   | .83  | .77  | .88  | .82  | .77  | .85                             | .79  | .75  | .81  | .77  | .73  | .78  | .75  | .71  | .69  |  |
| 3.0  | .78                   | .70  | .63  | .77  | .69  | .63  | .74                             | .67  | .62  | .71  | .65  | .61  | .68  | .64  | .59  | .57  |  |
| 4.0  | .69                   | .60  | .53  | .67  | .59  | .52  | .65                             | .57  | .51  | .62  | .56  | .51  | .60  | .55  | .50  | .48  |  |
| 5.0  | .61                   | .51  | .44  | .59  | .51  | .44  | .57                             | .50  | .44  | .55  | .48  | .43  | .53  | .47  | .43  | .40  |  |
| 6.0  | .54                   | .45  | .38  | .53  | .44  | .38  | .51                             | .43  | .37  | .49  | .42  | .37  | .48  | .42  | .37  | .35  |  |
| 7.0  | .48                   | .39  | .33  | .48  | .39  | .33  | .46                             | .38  | .32  | .44  | .37  | .32  | .43  | .37  | .32  | .30  |  |
| 8.0  | .44                   | .35  | .29  | .43  | .35  | .29  | .42                             | .34  | .28  | .40  | .33  | .28  | .39  | .33  | .28  | .26  |  |
| 9.0  | .40                   | .31  | .25  | .39  | .31  | .25  | .38                             | .30  | .25  | .37  | .30  | .25  | .36  | .29  | .25  | .23  |  |
| 10.0 | .36                   | .28  | .23  | .36  | .28  | .23  | .35                             | .28  | .22  | .34  | .27  | .22  | .33  | .27  | .22  | .20  |  |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

## WEC AND CCEC

|   |  |  |  |  |       |  |  |                  |  |
|---|--|--|--|--|-------|--|--|------------------|--|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |  |  |  |  |       |  |  |                  |  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    |  |  |  |  | TYPE: |  |  | WEIGHT:          |  |
| SPEC.:  |  |  |  |  | DIM.: |  |  | SERIAL No.:      |  |
| MFR.: Darkon  |  |  |  |  | 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  | .305                  | .174 | .055 | .298 | .170 | .054 | .285                            | .164 | .052 | .273 | .157 | .051 | .262 | .152 | .049 |   |
| 2.0  | .294                  | .161 | .049 | .288 | .159 | .049 | .276                            | .154 | .048 | .265 | .149 | .047 | .255 | .144 | .046 |   |
| 3.0  | .276                  | .147 | .044 | .270 | .145 | .044 | .260                            | .141 | .043 | .250 | .137 | .042 | .241 | .134 | .041 |   |
| 4.0  | .257                  | .133 | .039 | .252 | .132 | .039 | .242                            | .129 | .038 | .234 | .126 | .038 | .226 | .123 | .037 |   |
| 5.0  | .238                  | .122 | .035 | .234 | .120 | .035 | .226                            | .118 | .035 | .218 | .115 | .034 | .211 | .113 | .034 |   |
| 6.0  | .222                  | .111 | .032 | .218 | .110 | .032 | .210                            | .108 | .031 | .203 | .106 | .031 | .197 | .104 | .031 |   |
| 7.0  | .207                  | .102 | .029 | .203 | .101 | .029 | .196                            | .099 | .029 | .190 | .098 | .028 | .184 | .096 | .028 |   |
| 8.0  | .193                  | .094 | .027 | .190 | .093 | .026 | .184                            | .092 | .026 | .178 | .090 | .026 | .173 | .089 | .026 |   |
| 9.0  | .181                  | .087 | .024 | .178 | .087 | .024 | .173                            | .085 | .024 | .168 | .084 | .024 | .163 | .083 | .024 |   |
| 10.0 | .170                  | .081 | .023 | .167 | .081 | .023 | .162                            | .080 | .022 | .158 | .078 | .022 | .154 | .077 | .022 |   |

| 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  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .180                  | .156 | .135 | .154 | .134 | .116 | .105                                       | .092 | .080 | .061 | .053 | .047 | .019 | .017 | .015 |   |
| 2.0  | .173                  | .132 | .098 | .148 | .114 | .084 | .101                                       | .079 | .059 | .058 | .046 | .035 | .019 | .015 | .011 |   |
| 3.0  | .166                  | .114 | .073 | .142 | .099 | .064 | .097                                       | .069 | .045 | .056 | .040 | .026 | .018 | .013 | .009 |   |
| 4.0  | .159                  | .101 | .057 | .136 | .087 | .050 | .094                                       | .061 | .035 | .054 | .036 | .021 | .017 | .012 | .007 |   |
| 5.0  | .152                  | .091 | .046 | .130 | .079 | .040 | .090                                       | .055 | .028 | .052 | .032 | .017 | .017 | .011 | .006 |   |
| 6.0  | .145                  | .083 | .038 | .125 | .072 | .033 | .086                                       | .050 | .023 | .050 | .029 | .014 | .016 | .010 | .005 |   |
| 7.0  | .138                  | .076 | .032 | .119 | .066 | .028 | .082                                       | .046 | .020 | .048 | .027 | .012 | .015 | .009 | .004 |   |
| 8.0  | .132                  | .070 | .028 | .114 | .061 | .024 | .079                                       | .043 | .017 | .046 | .025 | .010 | .015 | .008 | .003 |   |
| 9.0  | .126                  | .065 | .024 | .108 | .057 | .021 | .075                                       | .040 | .015 | .044 | .024 | .009 | .014 | .008 | .003 |   |
| 10.0 | .120                  | .061 | .022 | .103 | .053 | .019 | .072                                       | .037 | .013 | .042 | .022 | .008 | .014 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

|   |               |                  |      |      |       |               |                |                  |      |      |  |
|---|---------------|------------------|------|------|-------|---------------|----------------|------------------|------|------|--|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |               |                  |      |      |       |               |                |                  |      |      |  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    |               |                  |      |      | TYPE: |               |                | WEIGHT:          |      |      |  |
| SPEC.:  |               |                  |      |      | DIM.: |               |                | SERIAL No.:      |      |      |  |
| MFR.: Darkon  |               |                  |      |      | 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   | 24.8          | 26.4             | 25.0 | 26.6 | 26.8  | 23.2          | 24.7           | 23.4             | 25.0 | 25.2 |  |
|   | 26.6          | 28.0             | 26.9 | 28.3 | 28.5  | 24.7          | 26.2           | 25.0             | 26.4 | 26.7 |  |
|   | 27.3          | 28.7             | 27.6 | 29.0 | 29.2  | 25.4          | 26.8           | 25.7             | 27.1 | 27.3 |  |
|   | 27.9          | 29.2             | 28.2 | 29.4 | 29.7  | 26.0          | 27.3           | 26.3             | 27.6 | 27.9 |  |
|   | 28.0          | 29.3             | 28.4 | 29.6 | 29.9  | 26.2          | 27.5           | 26.6             | 27.8 | 28.1 |  |
|   | 28.2          | 29.4             | 28.5 | 29.7 | 30.0  | 26.4          | 27.6           | 26.8             | 27.9 | 28.2 |  |
| 4H  | 2H            | 25.1             | 26.5 | 25.4 | 26.8  | 27.0          | 23.9           | 25.3             | 24.2 | 25.5 |  |
|   | 3H            | 27.1             | 28.3 | 27.4 | 28.6  | 28.9          | 25.6           | 26.8             | 26.0 | 27.1 |  |
|   | 4H            | 28.0             | 29.1 | 28.3 | 29.4  | 29.7          | 26.5           | 27.6             | 26.8 | 27.9 |  |
|   | 6H            | 28.7             | 29.6 | 29.1 | 30.0  | 30.3          | 27.2           | 28.1             | 27.6 | 28.5 |  |
|   | 8H            | 28.9             | 29.8 | 29.3 | 30.2  | 30.6          | 27.5           | 28.4             | 27.9 | 28.7 |  |
|   | 12H           | 29.1             | 29.9 | 29.5 | 30.3  | 30.7          | 27.7           | 28.5             | 28.1 | 28.9 |  |
| 8H  | 4H            | 28.2             | 29.0 | 28.6 | 29.4  | 29.8          | 26.8           | 27.7             | 27.2 | 28.1 |  |
|   | 6H            | 29.0             | 29.7 | 29.4 | 30.1  | 30.6          | 27.7           | 28.5             | 28.2 | 28.9 |  |
|   | 8H            | 29.3             | 30.0 | 29.8 | 30.4  | 30.9          | 28.1           | 28.8             | 28.6 | 29.2 |  |
|   | 12H           | 29.6             | 30.1 | 30.1 | 30.6  | 31.1          | 28.5           | 29.0             | 28.9 | 29.5 |  |
| 12H   | 4H            | 28.2             | 29.0 | 28.6 | 29.4  | 29.8          | 26.9           | 27.7             | 27.3 | 28.1 |  |
|   | 6H            | 29.0             | 29.7 | 29.5 | 30.1  | 30.6          | 27.8           | 28.5             | 28.3 | 28.9 |  |
|   | 8H            | 29.4             | 30.0 | 29.9 | 30.4  | 30.9          | 28.3           | 28.8             | 28.7 | 29.3 |  |
| Variations with the observer position at spacings:                          |               |                  |      |      |       |               |                |                  |      |      |  |
| S = 1.0H  | + 0.1 / - 0.1 |                  |      |      |       | + 0.2 / - 0.2 |                |                  |      |      |  |
| 1.5H  | + 0.3 / - 0.3 |                  |      |      |       | + 0.2 / - 0.3 |                |                  |      |      |  |
| 2.0H  | + 0.5 / - 0.6 |                  |      |      |       | + 0.1 / - 0.3 |                |                  |      |      |  |

CIE Pub.117, 205.6 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -5.5$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |

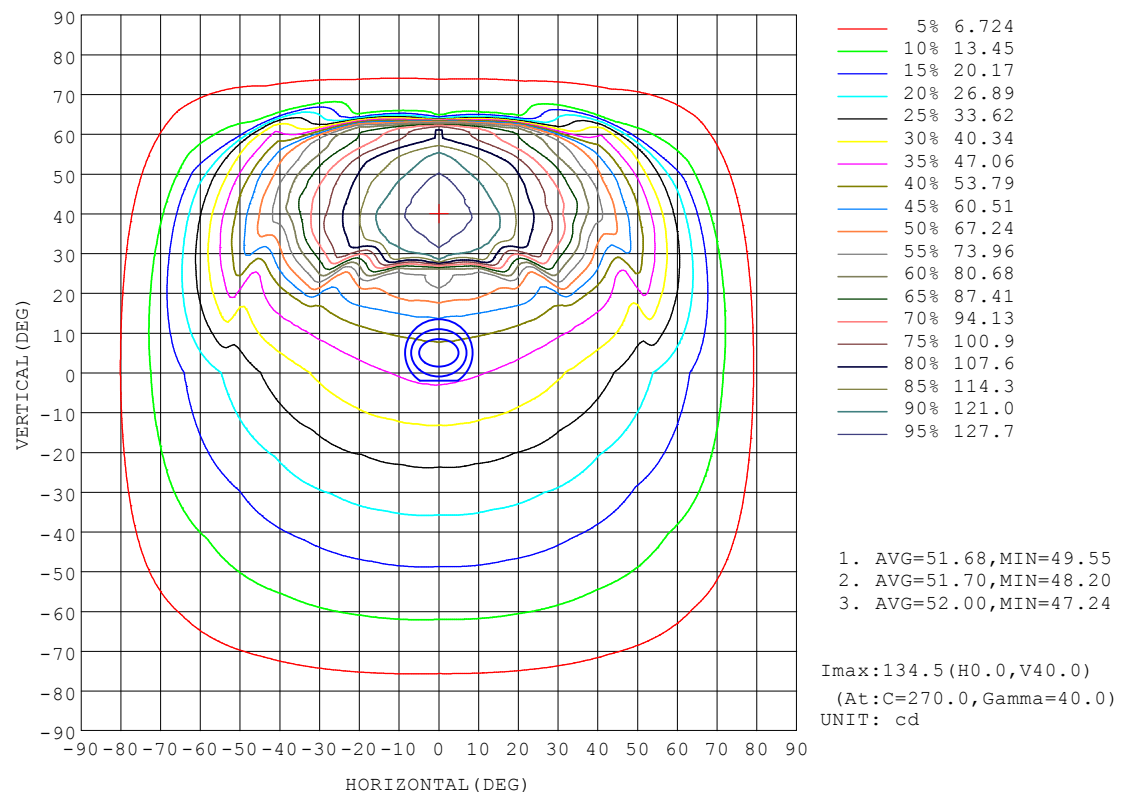
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 53   | 40  | 33        | 52  | 40  | 33  | 51  | 39            | 32  | 26     |
| 0.80                             | 64   | 51  | 43        | 63  | 51  | 43  | 61  | 50            | 43  | 35     |
| 1.00                             | 73   | 62  | 54        | 72  | 61  | 54  | 70  | 63            | 53  | 46     |
| 1.25                             | 81   | 70  | 63        | 80  | 70  | 62  | 77  | 68            | 62  | 54     |
| 1.50                             | 87   | 76  | 69        | 85  | 75  | 69  | 82  | 74            | 68  | 60     |
| 2.00                             | 94   | 86  | 79        | 92  | 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  | 91            | 86  | 78     |
| 4.00                             | 106  | 100 | 96        | 104 | 99  | 94  | 99  | 95            | 92  | 83     |
| 5.00                             | 109  | 104 | 99        | 106 | 102 | 98  | 102 | 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: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |



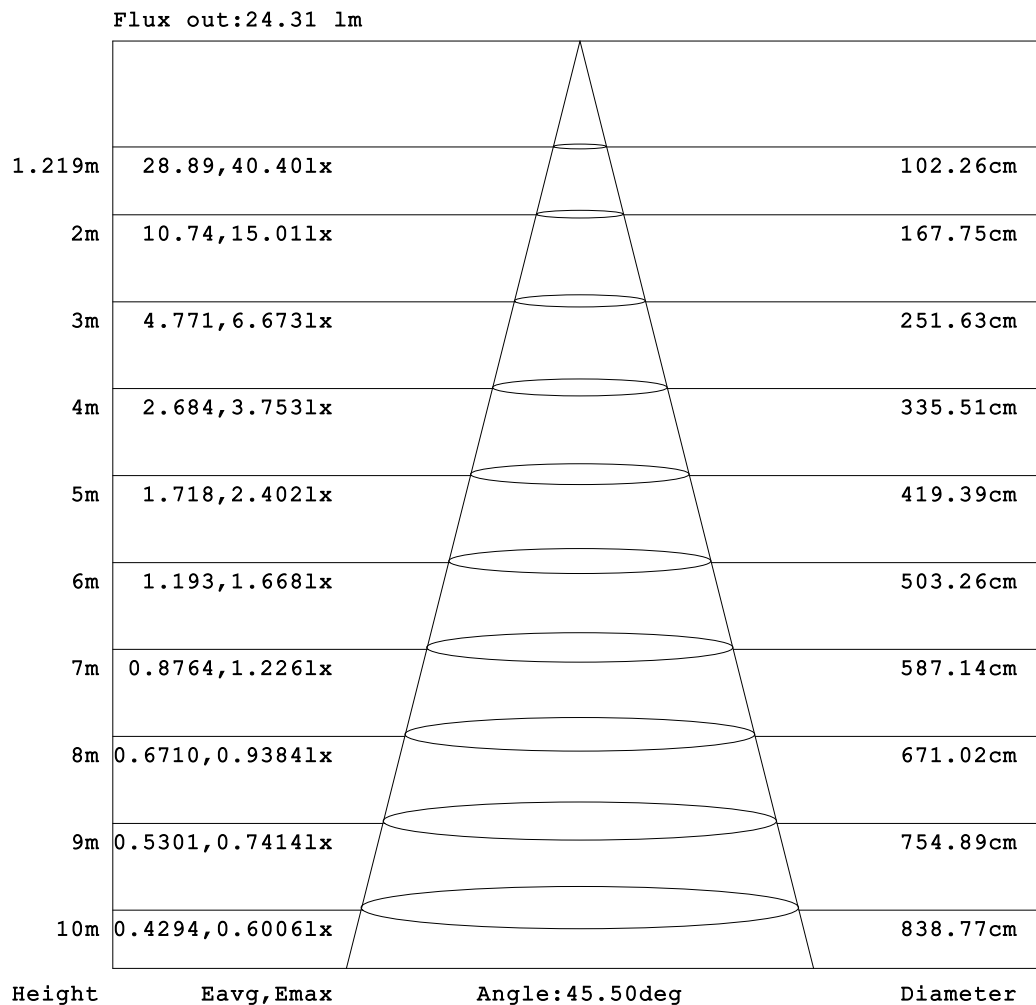
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:



**AAI Figure**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |



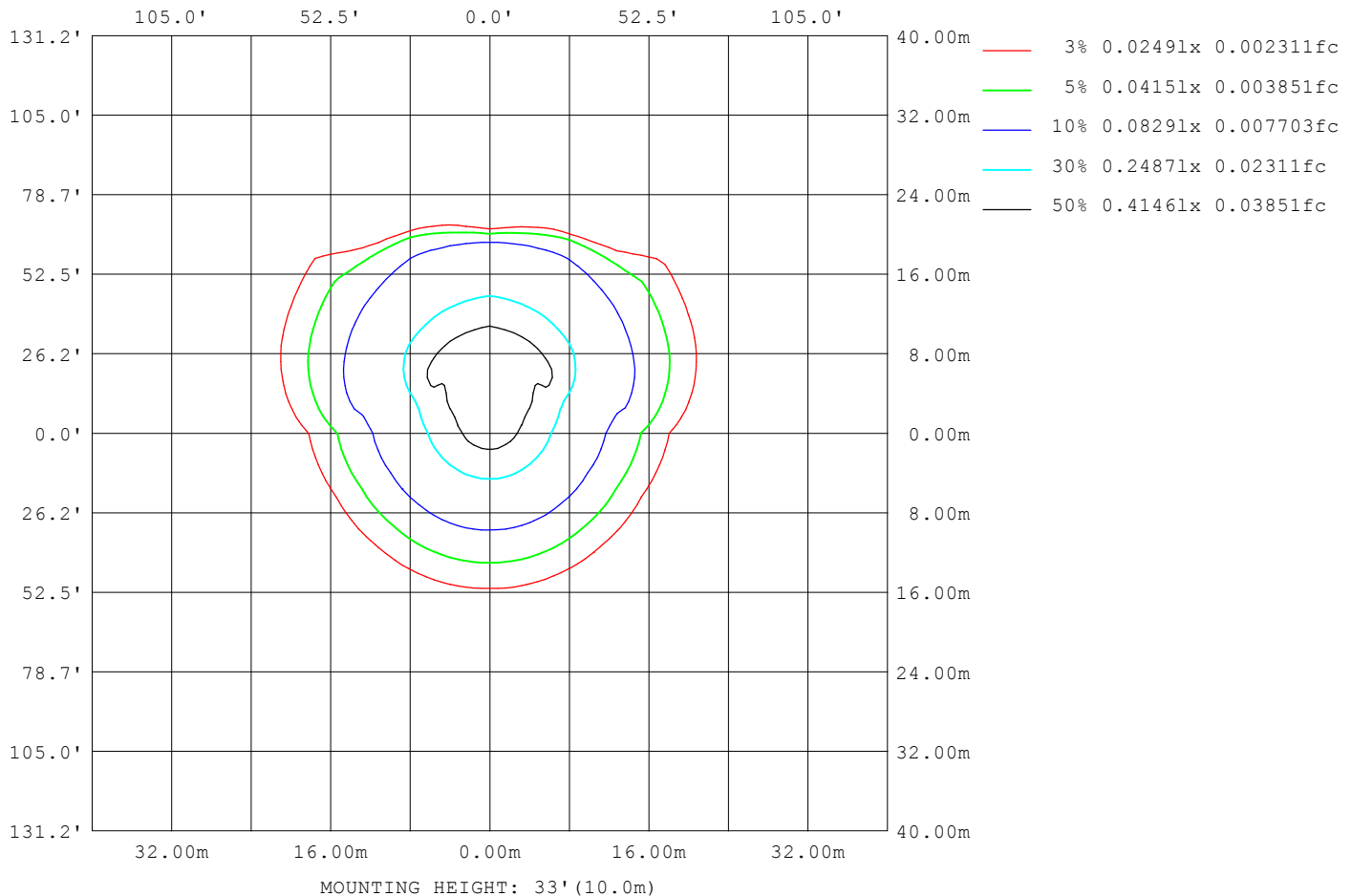
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**LED Avg.L Report**

|   |       |                  |
|---|-------|------------------|
| Test:U:24.059V I:0.1395A P:3.3557W PF:1.0000 Freq:0Hz Lamp Flux:205.59x1 lm |       |                  |
| NAME: WYN STEP_90_REC_WHT_DAR3030_24V_4K                                    | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: Darkon  | SUR.: | Shielding Angle: |

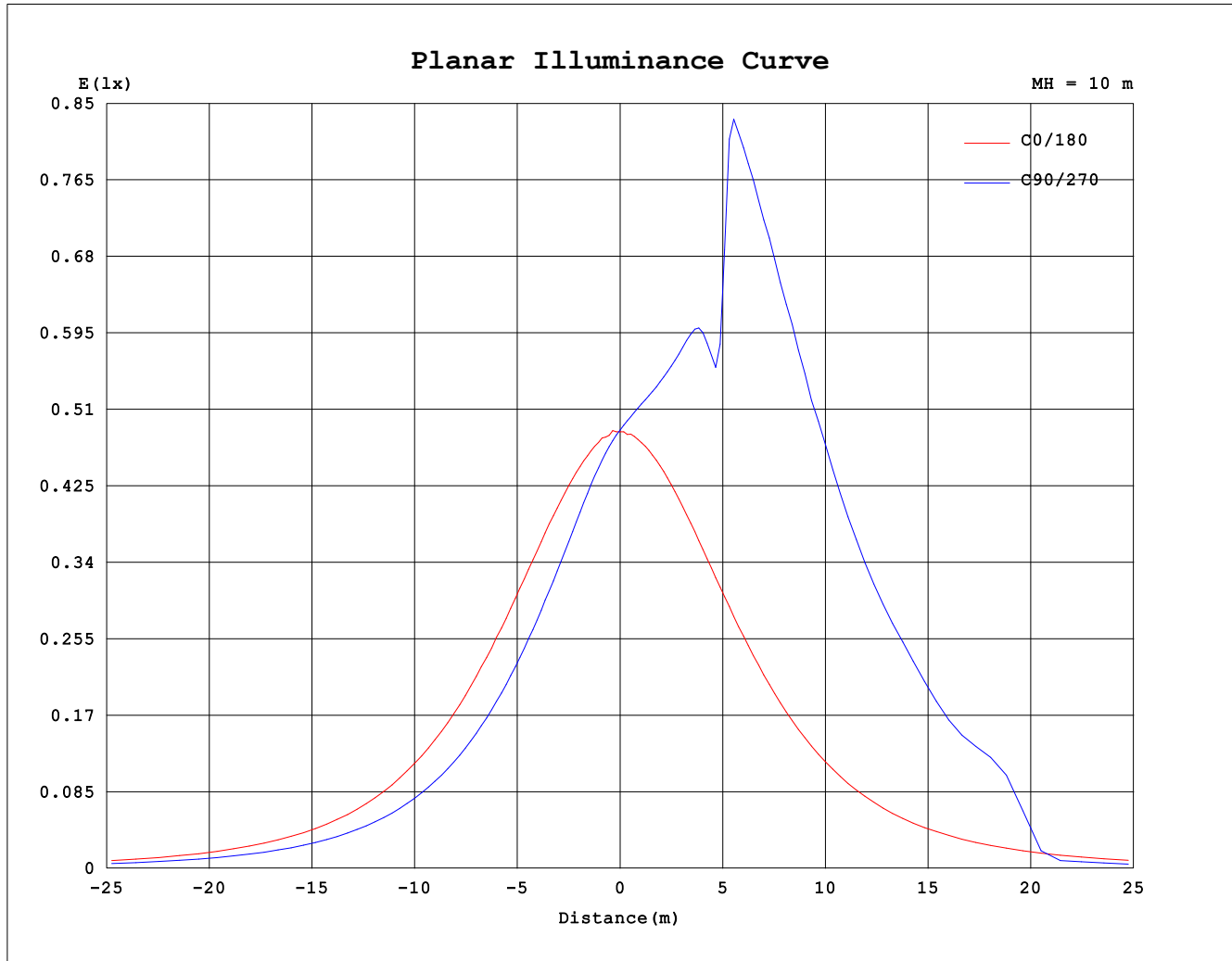
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 12568 |
| L_0~180 (75) av  | 11489 |
| L_0~180 (85) av  | 8797  |
| L_90~270 (65) av | 7742  |
| L_90~270 (75) av | 7077  |
| L_90~270 (85) av | 6203  |
| L_45 (65) av     | 23292 |
| L_45 (75) av     | 8245  |
| L_45 (85) av     | 7045  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Ky  
Test Date:04 September 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:7.220m [K=1.0000]  
Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Ky  
Test Date: 04 September 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.220m [K=1.0000]  
Remarks:

