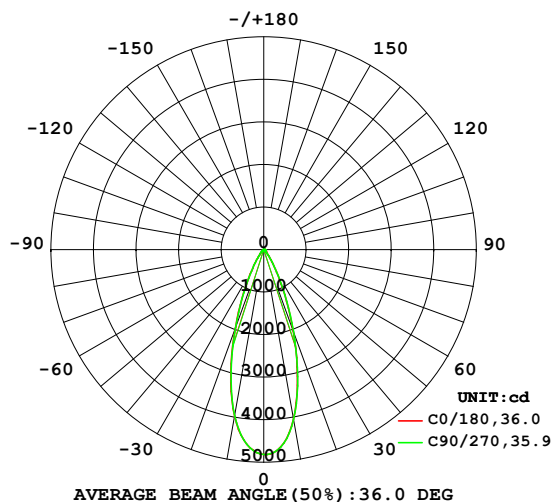


**LUMINAIRE PHOTOMETRIC TEST REPORT**

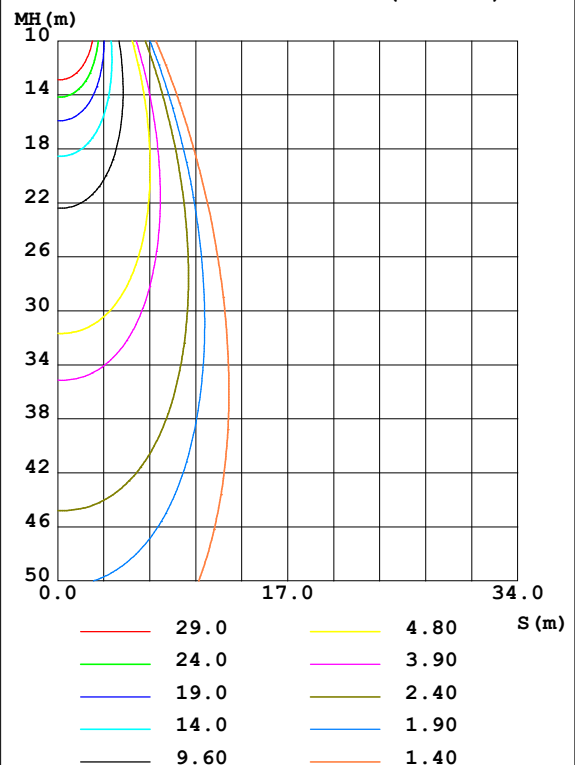
|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |

| DATA OF LAMP     |                      | PHOTOMETRIC DATA Eff: 97.53 lm/W |        |                        |          |
|------------------|----------------------|----------------------------------|--------|------------------------|----------|
| MODEL            | TRIDONIC SLE G7 09MM | Imax(cd)                         | 4820   | S/MH(C0/180)           | 0.58     |
| NOMINAL POWER(W) |                      | LOR(%)                           | 100.0  | S/MH(C90/270)          | 0.58     |
| RATED VOLTAGE(V) | 230.0                | TOTAL FLUX(lm)                   | 2139.9 | $\eta$ UP,DN(C0-180)   | 0.0,50.7 |
| NOMINAL FLUX(lm) | 2139.93              | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 0.0,49.3 |
| LAMPS INSIDE     | 1                    | $\eta$ up(%)                     | 0.0    | CIBSE SHR NOM          | 0.50     |
| TEST VOLTAGE(V)  | 230                  | $\eta$ down(%)                   | 100.0  | CIBSE SHR MAX          | 0.60     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [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       | 4045                  | 4061   | 4053   | 4013   | 3972   | 3932   | 3959   | 4013   | 0- 10    | 421.8       | 421.8        | 19.7,19.7  |
| 20       | 2035                  | 2063   | 2046   | 2002   | 1956   | 1923   | 1945   | 2007   | 10- 20   | 826.8       | 1249         | 58.3,58.3  |
| 30       | 611.3                 | 621.9  | 614.0  | 594.3  | 583.5  | 573.7  | 582.6  | 599.3  | 20- 30   | 536.1       | 1785         | 83.4,83.4  |
| 40       | 152.1                 | 154.2  | 151.4  | 146.5  | 145.3  | 145.8  | 146.2  | 148.8  | 30- 40   | 196.8       | 1982         | 92.6,92.6  |
| 50       | 55.86                 | 56.04  | 54.57  | 52.89  | 53.29  | 56.53  | 53.77  | 54.95  | 40- 50   | 67.59       | 2049         | 95.8,95.8  |
| 60       | 38.01                 | 37.35  | 36.01  | 34.68  | 34.74  | 35.73  | 36.00  | 37.23  | 50- 60   | 39.33       | 2088         | 97.6,97.6  |
| 70       | 24.46                 | 23.78  | 22.42  | 21.31  | 21.10  | 21.60  | 22.58  | 23.90  | 60- 70   | 28.99       | 2117         | 98.9,98.9  |
| 80       | 11.50                 | 11.22  | 10.24  | 9.322  | 9.005  | 9.181  | 9.994  | 10.95  | 70- 80   | 17.08       | 2135         | 99.7,99.7  |
| 90       | 0.3193                | 0.3045 | 0.1063 | 0.0917 | 0.0991 | 0.0880 | 0.0851 | 0.0807 | 80- 90   | 5.418       | 2140         | 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): 2022.4 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 2088.4 lm

%lum = 97.6%

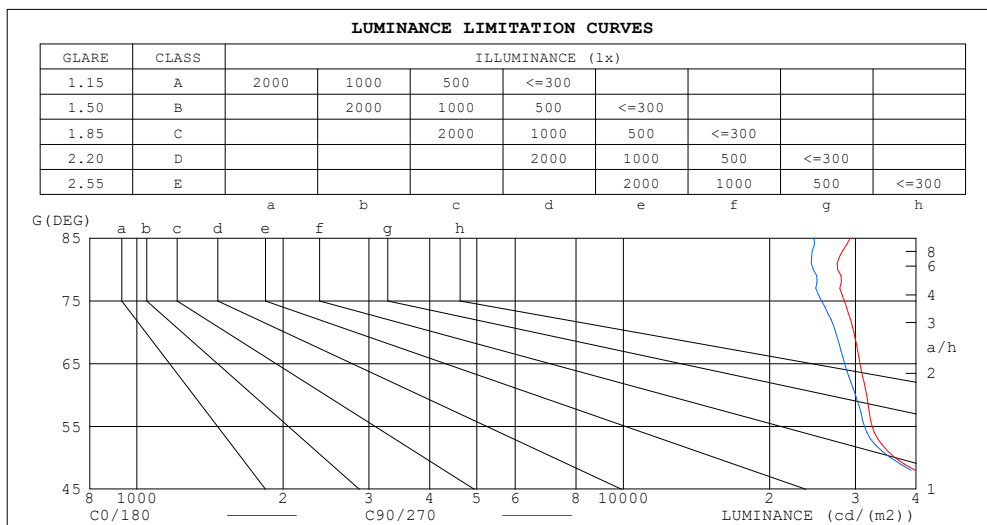
%lamp = 97.6%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 29297  | 24703   |
| 80                | 27580  | 24579   |
| 75                | 28456  | 25556   |
| 70                | 29784  | 27317   |
| 65                | 30665  | 28521   |
| 60                | 31657  | 30016   |
| 55                | 32482  | 31338   |
| 50                | 36192  | 35384   |
| 45                | 49384  | 48681   |

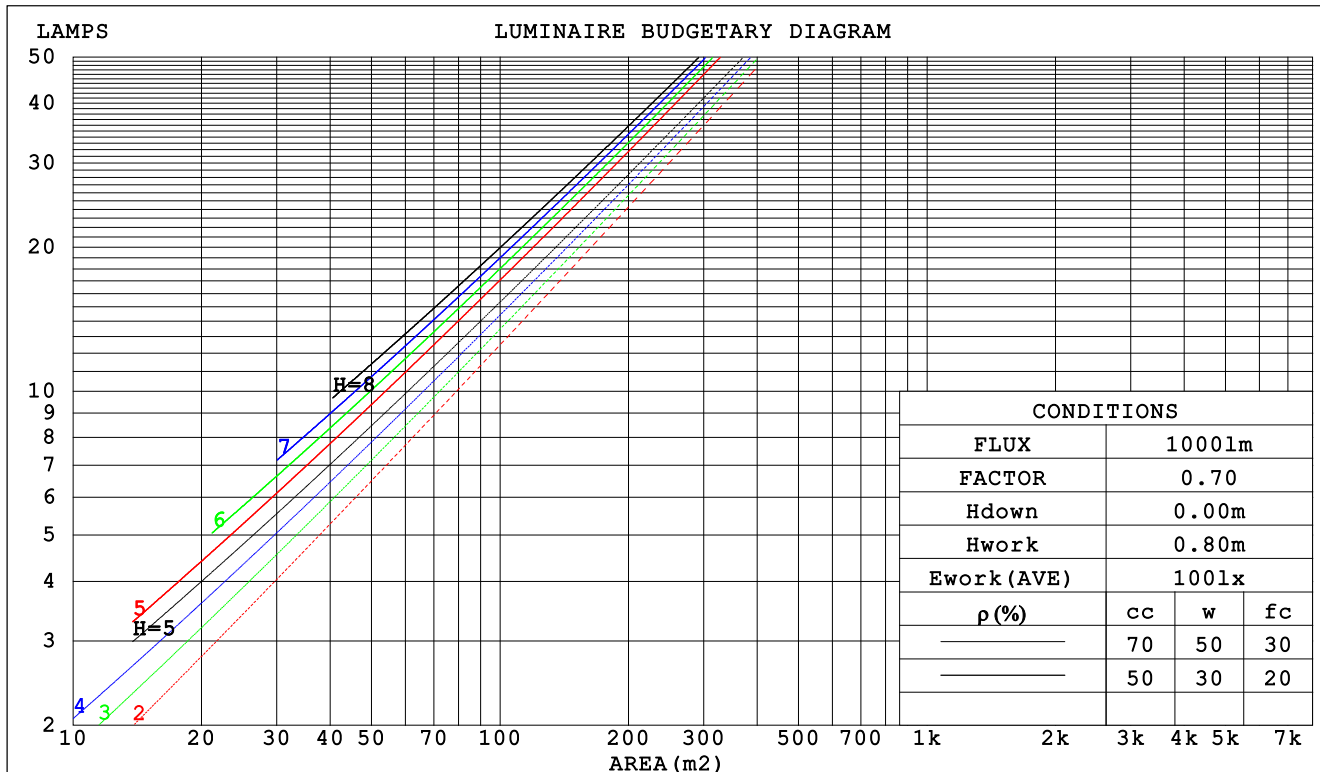
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | 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 |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0         | 1.11                  | 1.09 | 1.07 | 1.09 | 1.07 | 1.05 | 1.05                            | 1.03 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  | .94 |
| 2.0         | 1.04                  | 1.01 | .97  | 1.03 | .99  | .96  | .99                             | .97  | .94  | .96  | .94  | .92  | .94  | .92  | .90  | .89 |
| 3.0         | .98                   | .94  | .90  | .97  | .93  | .89  | .94                             | .91  | .88  | .92  | .89  | .87  | .90  | .87  | .85  | .84 |
| 4.0         | .93                   | .88  | .84  | .92  | .87  | .84  | .90                             | .86  | .83  | .88  | .84  | .82  | .86  | .83  | .81  | .79 |
| 5.0         | .88                   | .83  | .79  | .87  | .82  | .79  | .86                             | .81  | .78  | .84  | .80  | .77  | .82  | .79  | .77  | .75 |
| 6.0         | .84                   | .79  | .75  | .83  | .78  | .75  | .82                             | .77  | .74  | .80  | .77  | .74  | .79  | .76  | .73  | .72 |
| 7.0         | .80                   | .75  | .71  | .79  | .74  | .71  | .78                             | .74  | .70  | .77  | .73  | .70  | .76  | .72  | .70  | .69 |
| 8.0         | .76                   | .71  | .68  | .76  | .71  | .68  | .75                             | .70  | .67  | .74  | .70  | .67  | .73  | .69  | .67  | .66 |
| 9.0         | .73                   | .68  | .65  | .73  | .68  | .65  | .72                             | .67  | .64  | .71  | .67  | .64  | .70  | .67  | .64  | .63 |
| 10.0        | .70                   | .65  | .62  | .70  | .65  | .62  | .69                             | .65  | .62  | .68  | .64  | .62  | .68  | .64  | .61  | .60 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

**WEC AND CCEC**

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| 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  | .169                  | .096 | .030 | .162 | .093 | .029 | .150                             | .086 | .027 | .138 | .080 | .026 | .128 | .074 | .024 |   |  |
| 2.0  | .159                  | .087 | .027 | .153 | .084 | .026 | .142                             | .079 | .025 | .133 | .075 | .023 | .124 | .070 | .022 |   |  |
| 3.0  | .149                  | .079 | .024 | .144 | .077 | .023 | .135                             | .073 | .022 | .127 | .070 | .021 | .119 | .066 | .020 |   |  |
| 4.0  | .140                  | .073 | .021 | .136 | .071 | .021 | .128                             | .068 | .020 | .121 | .065 | .020 | .115 | .062 | .019 |   |  |
| 5.0  | .132                  | .067 | .020 | .129 | .066 | .019 | .122                             | .064 | .019 | .116 | .061 | .018 | .110 | .059 | .018 |   |  |
| 6.0  | .125                  | .063 | .018 | .122 | .062 | .018 | .117                             | .060 | .017 | .111 | .058 | .017 | .106 | .056 | .017 |   |  |
| 7.0  | .119                  | .059 | .017 | .116 | .058 | .017 | .111                             | .056 | .016 | .107 | .055 | .016 | .102 | .053 | .016 |   |  |
| 8.0  | .114                  | .055 | .016 | .111 | .055 | .015 | .107                             | .053 | .015 | .103 | .052 | .015 | .099 | .051 | .015 |   |  |
| 9.0  | .108                  | .052 | .015 | .106 | .052 | .015 | .102                             | .051 | .014 | .099 | .049 | .014 | .095 | .048 | .014 |   |  |
| 10.0 | .104                  | .050 | .014 | .102 | .049 | .014 | .098                             | .048 | .014 | .095 | .047 | .013 | .092 | .046 | .013 |   |  |

| 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  | .171                  | .157 | .146 | .146 | .135 | .125 | .100  | .093 | .087 | .057 | .054 | .050 | .018 | .017 | .016 |   |
| 2.0  | .154                  | .133 | .114 | .132 | .114 | .099 | .091  | .079 | .069 | .052 | .046 | .040 | .017 | .015 | .013 |   |
| 3.0  | .141                  | .113 | .091 | .121 | .098 | .079 | .083  | .068 | .056 | .048 | .040 | .033 | .015 | .013 | .011 |   |
| 4.0  | .130                  | .099 | .075 | .112 | .085 | .065 | .077  | .059 | .046 | .044 | .035 | .027 | .014 | .011 | .009 |   |
| 5.0  | .120                  | .087 | .062 | .103 | .075 | .054 | .071  | .052 | .038 | .041 | .031 | .023 | .013 | .010 | .007 |   |
| 6.0  | .112                  | .077 | .052 | .097 | .067 | .045 | .067  | .047 | .032 | .039 | .028 | .019 | .012 | .009 | .006 |   |
| 7.0  | .105                  | .069 | .044 | .091 | .060 | .038 | .063  | .042 | .027 | .036 | .025 | .016 | .012 | .008 | .005 |   |
| 8.0  | .099                  | .063 | .038 | .085 | .055 | .033 | .059  | .038 | .023 | .034 | .023 | .014 | .011 | .007 | .005 |   |
| 9.0  | .094                  | .057 | .033 | .081 | .050 | .029 | .056  | .035 | .020 | .033 | .021 | .012 | .011 | .007 | .004 |   |
| 10.0 | .089                  | .053 | .029 | .077 | .046 | .025 | .053  | .032 | .018 | .031 | .019 | .011 | .010 | .006 | .004 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

|   |                  |      |      |      |          |                |      |                  |      |      |
|---|------------------|------|------|------|----------|----------------|------|------------------|------|------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |                  |      |      |      |          |                |      |                  |      |      |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         |                  |      |      |      | TYPE:LED |                |      | WEIGHT:          |      |      |
| SPEC.:  |                  |      |      |      | DIM.:    |                |      | SERIAL No.:1     |      |      |
| 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   | 20.4             | 21.2 | 20.6 | 21.4 | 21.5     | 20.3           | 21.2 | 20.5             | 21.3 | 21.5 |
| 3H  | 21.1             | 21.9 | 21.4 | 22.1 | 22.3     | 21.0           | 21.8 | 21.2             | 22.0 | 22.2 |
| 4H  | 21.5             | 22.3 | 21.8 | 22.5 | 22.7     | 21.3           | 22.1 | 21.6             | 22.3 | 22.5 |
| 6H  | 21.9             | 22.6 | 22.2 | 22.8 | 23.0     | 21.6           | 22.3 | 21.9             | 22.5 | 22.8 |
| 8H  | 22.0             | 22.7 | 22.3 | 22.9 | 23.2     | 21.7           | 22.4 | 22.0             | 22.6 | 22.9 |
| 12H   | 22.1             | 22.7 | 22.4 | 23.0 | 23.3     | 21.8           | 22.4 | 22.1             | 22.7 | 23.0 |
| 4H 2H   | 20.6             | 21.3 | 20.8 | 21.5 | 21.7     | 20.5           | 21.3 | 20.8             | 21.5 | 21.7 |
| 3H  | 21.6             | 22.2 | 21.9 | 22.5 | 22.7     | 21.4           | 22.1 | 21.7             | 22.3 | 22.6 |
| 4H  | 22.1             | 22.7 | 22.4 | 23.0 | 23.3     | 21.9           | 22.5 | 22.2             | 22.8 | 23.1 |
| 6H  | 22.6             | 23.1 | 22.9 | 23.4 | 23.8     | 22.3           | 22.8 | 22.7             | 23.1 | 23.5 |
| 8H  | 22.8             | 23.2 | 23.1 | 23.6 | 24.0     | 22.5           | 22.9 | 22.8             | 23.3 | 23.7 |
| 12H   | 22.9             | 23.4 | 23.3 | 23.7 | 24.1     | 22.6           | 23.0 | 23.0             | 23.4 | 23.8 |
| 8H 4H   | 22.3             | 22.7 | 22.6 | 23.1 | 23.4     | 22.1           | 22.5 | 22.5             | 22.9 | 23.3 |
| 6H  | 22.9             | 23.3 | 23.3 | 23.7 | 24.1     | 22.6           | 23.0 | 23.0             | 23.4 | 23.8 |
| 8H  | 23.1             | 23.5 | 23.6 | 23.9 | 24.4     | 22.9           | 23.2 | 23.3             | 23.6 | 24.1 |
| 12H   | 23.4             | 23.7 | 23.9 | 24.2 | 24.6     | 23.1           | 23.4 | 23.5             | 23.8 | 24.3 |
| 12H 4H  | 22.2             | 22.7 | 22.7 | 23.1 | 23.4     | 22.1           | 22.5 | 22.5             | 22.9 | 23.3 |
| 6H  | 22.9             | 23.3 | 23.3 | 23.7 | 24.1     | 22.7           | 23.0 | 23.1             | 23.4 | 23.9 |
| 8H  | 23.2             | 23.5 | 23.7 | 24.0 | 24.4     | 22.9           | 23.3 | 23.4             | 23.7 | 24.2 |
| Variations with the observer position at spacings:                |                  |      |      |      |          |                |      |                  |      |      |
| S = 1.0H  | + 0.7 / - 0.7    |      |      |      |          | + 0.8 / - 0.8  |      |                  |      |      |
| 1.5H  | + 1.6 / - 0.7    |      |      |      |          | + 1.7 / - 0.8  |      |                  |      |      |
| 2.0H  | + 0.6 / - 0.3    |      |      |      |          | + 0.6 / - 0.4  |      |                  |      |      |

CIE Pub.117 Corrected 2140 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.6)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |

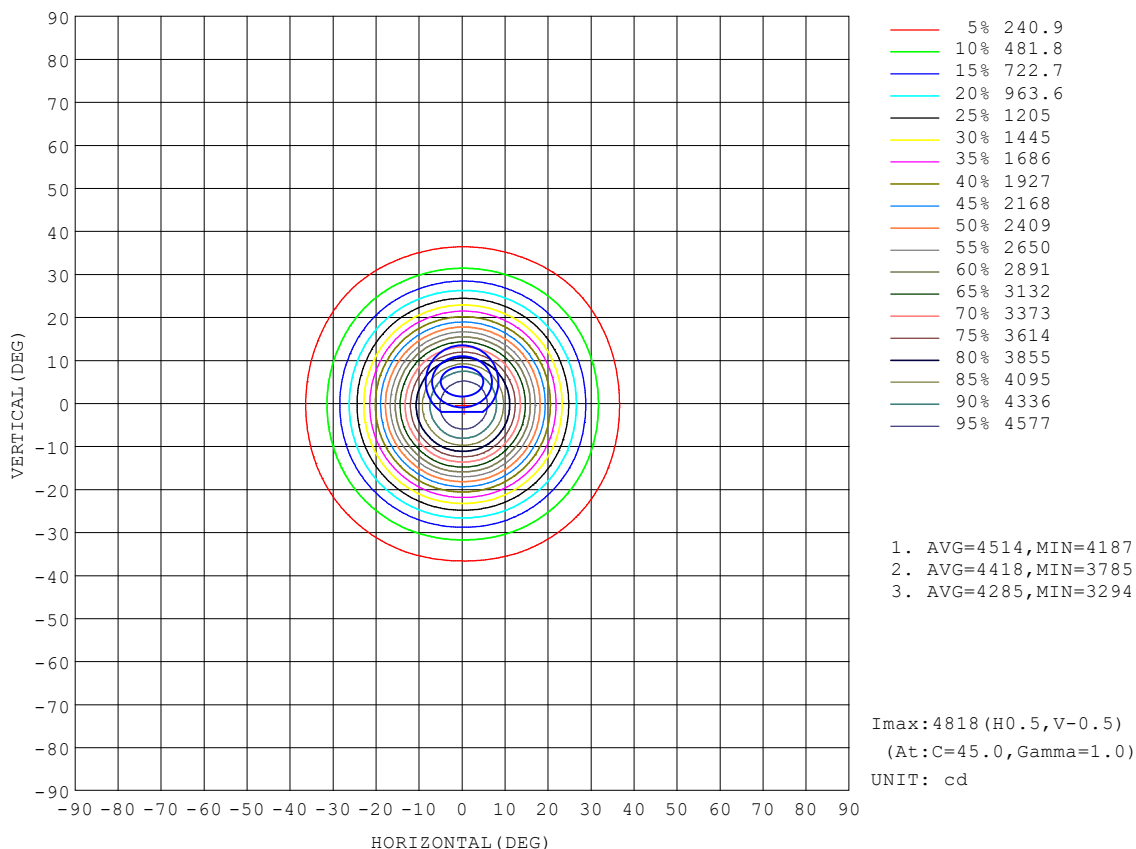
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 87   | 81  | 77        | 86  | 80  | 77  | 86  | 80            | 77  | 73     |
| 0.80                             | 94   | 88  | 85        | 94  | 88  | 84  | 92  | 87            | 84  | 80     |
| 1.00                             | 99   | 93  | 89        | 98  | 93  | 89  | 96  | 92            | 88  | 84     |
| 1.25                             | 103  | 97  | 94        | 102 | 97  | 93  | 100 | 96            | 93  | 88     |
| 1.50                             | 105  | 101 | 97        | 104 | 100 | 97  | 102 | 98            | 95  | 91     |
| 2.00                             | 108  | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 98  | 93     |
| 2.50                             | 110  | 106 | 103       | 108 | 105 | 102 | 105 | 102           | 100 | 94     |
| 3.00                             | 111  | 108 | 105       | 110 | 106 | 104 | 106 | 104           | 102 | 95     |
| 4.00                             | 114  | 111 | 108       | 111 | 109 | 107 | 108 | 106           | 104 | 97     |
| 5.00                             | 115  | 113 | 111       | 113 | 111 | 109 | 109 | 107           | 106 | 98     |
| 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:JEFF  
Test Date:10 August 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |



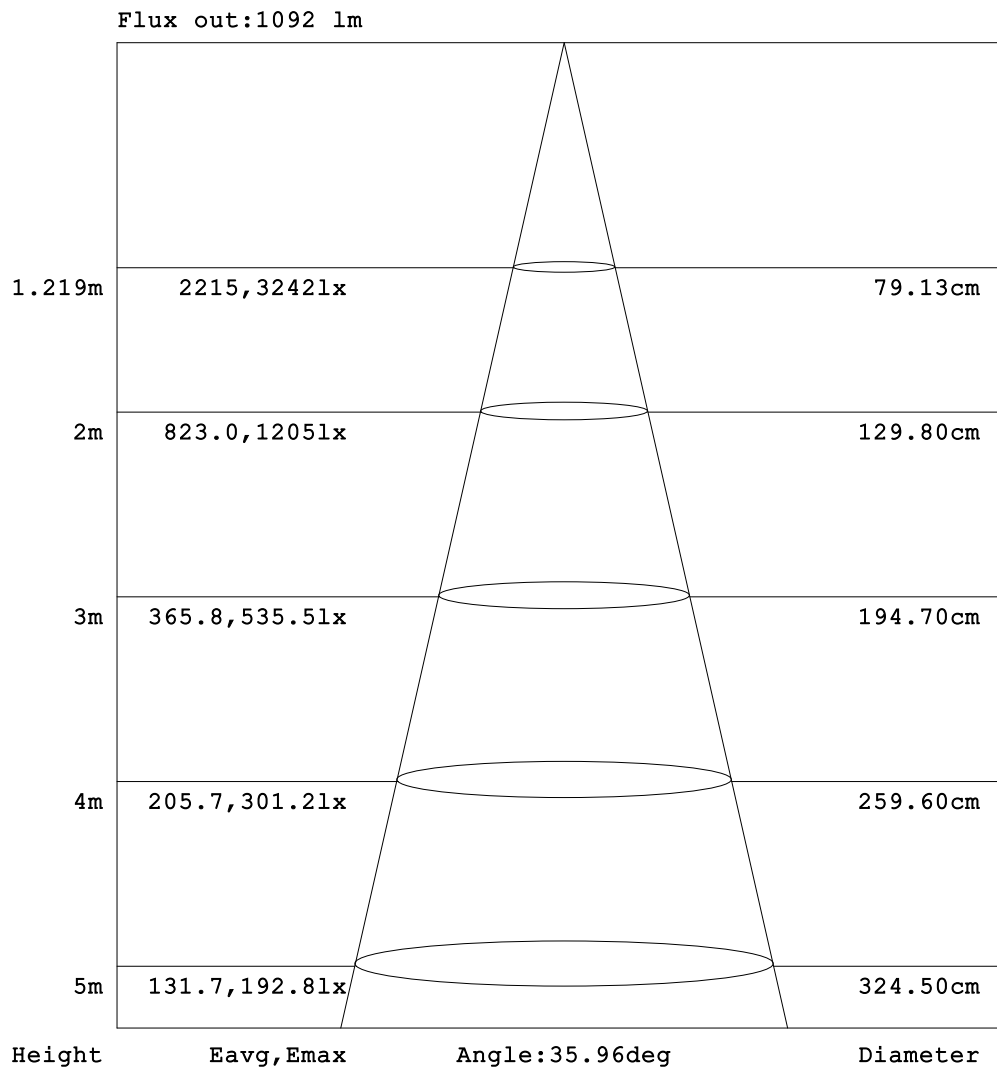
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:



### AAI Figure

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |



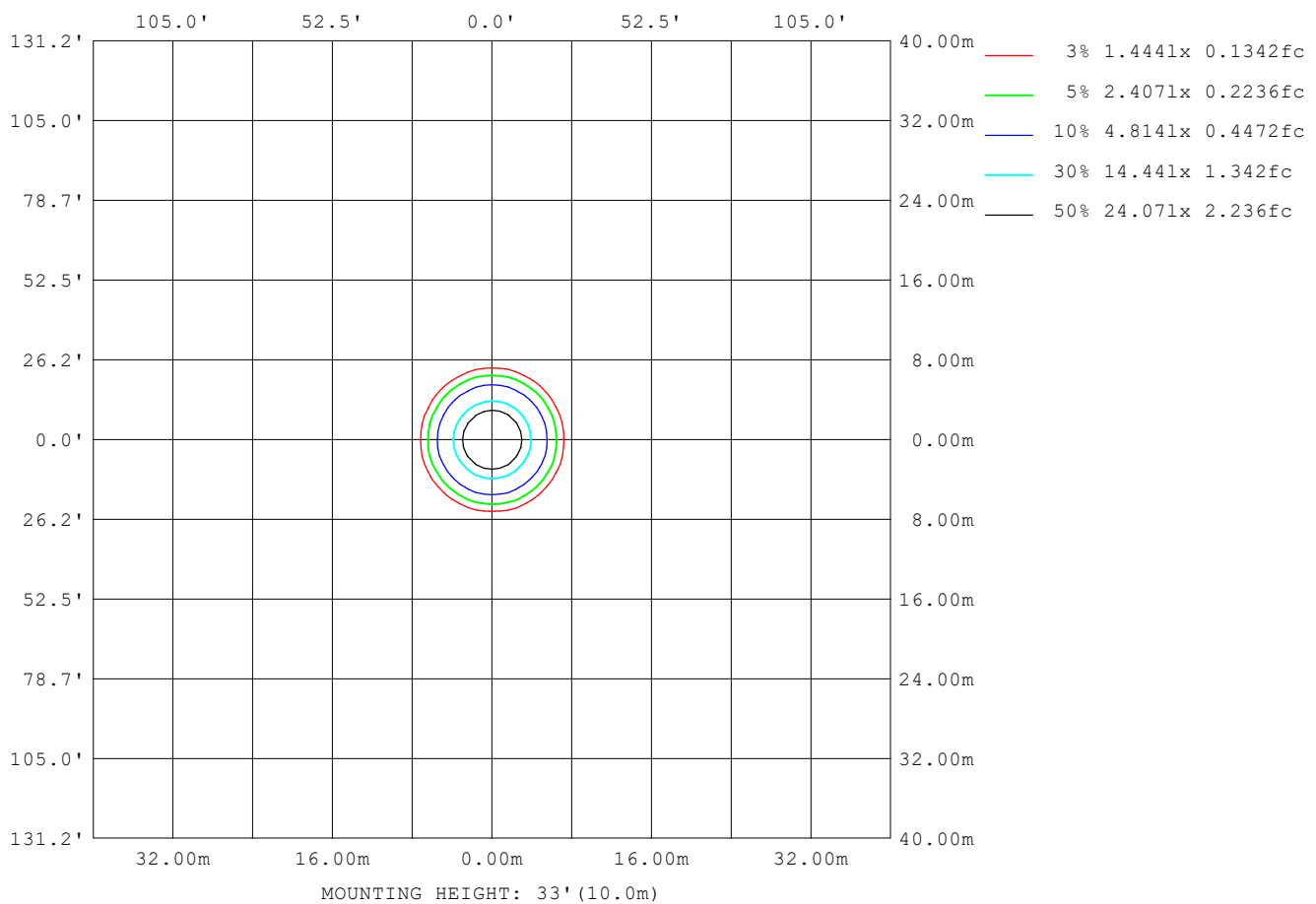
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

### LED Avg.L Report

|   |          |                  |
|---|----------|------------------|
| Test:U:239.9V I:0.0946A P:21.94W PF:0.9664 Lamp Flux:2139.93x1 lm |          |                  |
| NAME: BARREL_WHT_35 DEG_500mA_3000K CRI80                         | TYPE:LED | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:1     |
| MFR.: DARKON  | SUR.:    | Shielding Angle: |

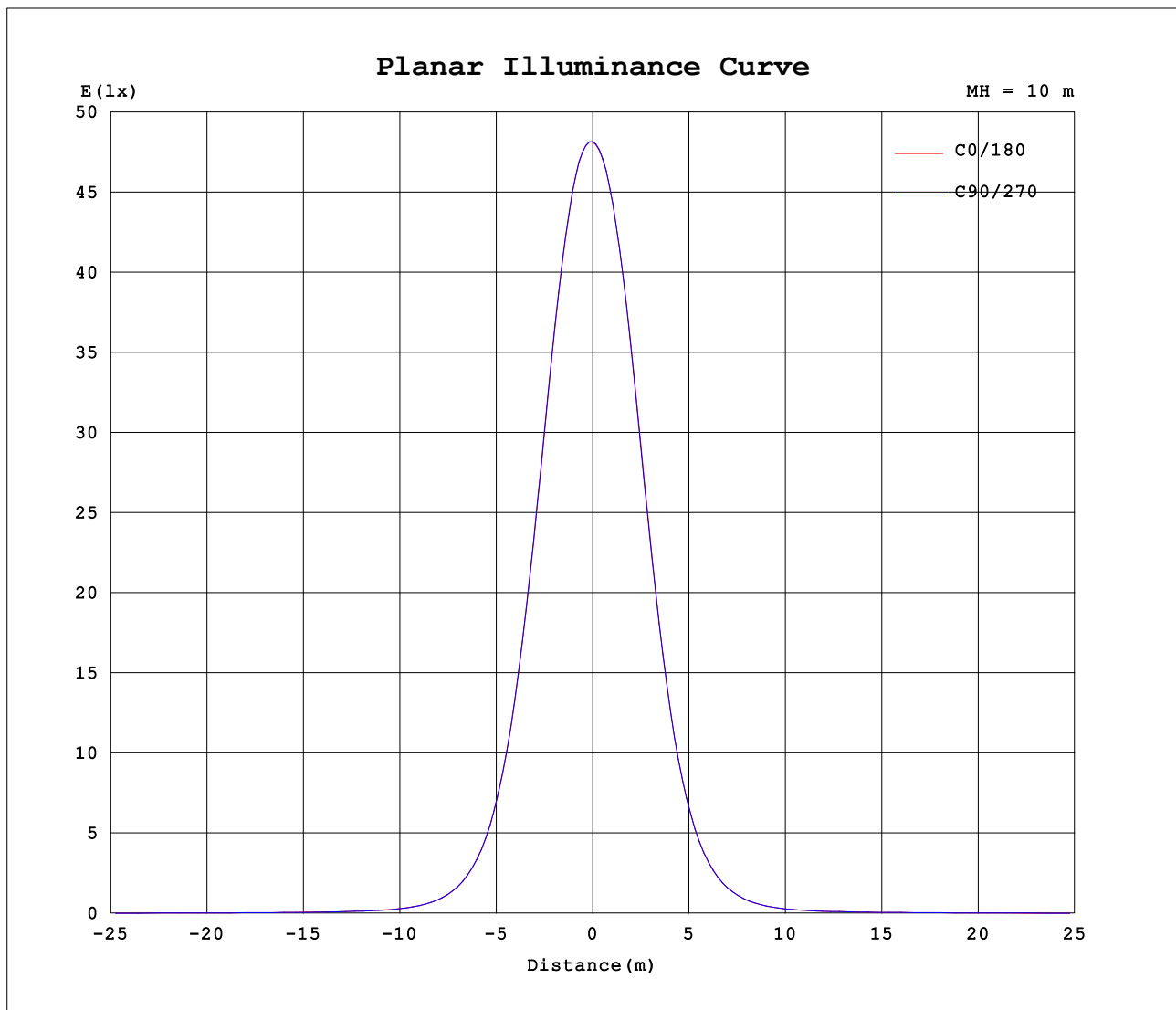
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 28994 |
| L_0~180 (75) av  | 25973 |
| L_0~180 (85) av  | 24385 |
| L_90~270 (65) av | 28688 |
| L_90~270 (75) av | 25583 |
| L_90~270 (85) av | 23784 |
| L_45 (65) av     | 28794 |
| L_45 (75) av     | 25784 |
| L_45 (85) av     | 24051 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:10 August 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.892m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 10 August 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.892m [K=1.0000]  
Remarks:

