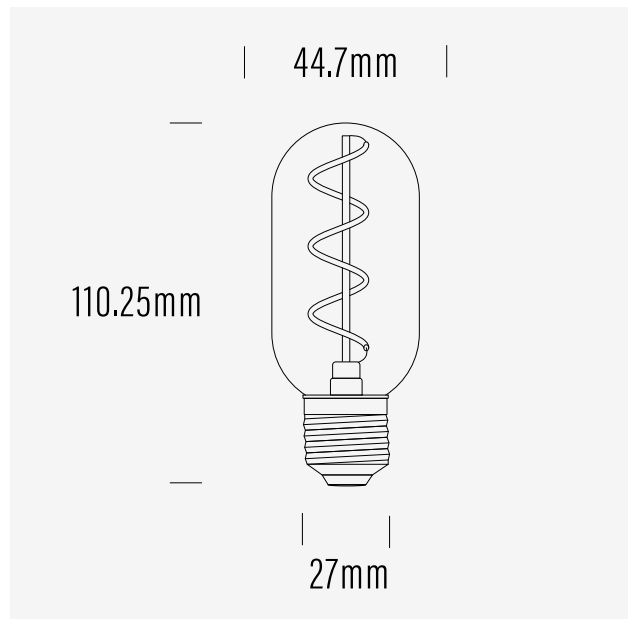


# AGL G Series

E27 LED Globes



## AQF-G-005-2200K / 2200K / E27



### Product Data

|              |                                  |
|--------------|----------------------------------|
| Product Code | AQF-G-005-2200K                  |
| Description  | Aqualux G Series LED Lamp        |
| Type         | E27                              |
| Construction | PET Shell + LED + Aluminium Base |
| Warranty     | 3 Years                          |

### Electrical Data

|                                |                     |   |              |       |
|--------------------------------|---------------------|---|--------------|-------|
| Input Voltage Range            | 24V AC/DC           |   |              |       |
| Nominal Voltage                | 24VDC               |   |              |       |
| Nominal Power                  | 2W                  |   |              |       |
| Nominal Current                | 83mA                |   |              |       |
| Input Voltage                  | -                   | - | <b>24VDC</b> | 24VAC |
| Rated Power                    | -                   | - | <b>0.5</b>   | 1.5   |
| Operating Frequency            | -                   | - | -            | 50Hz  |
| Max. no. of lamps on AQD24-040 | -                   | - | -            | -     |
| Max. no. of lamps on AQD24-100 | -                   | - | -            | -     |
| Max. no. of lamps on AQD24-240 | -                   | - | -            | -     |
| Dimming Compatibility          | PWM (PSU dependant) |   |              |       |
| Wiring Scheme                  | Parallel            |   |              |       |
| Startup Time                   | < 0.5s              |   |              |       |

### Mechanical & Thermal Data

|                      |            |
|----------------------|------------|
| Overall Length       | 110.25mm   |
| Max Diameter         | 44.7mm     |
| Lamp Base            | E27        |
| Weight               | 18g        |
| Operating Temp Range | -20° - 60° |
| IP Rating            | IP20       |

### Photometric Data

|                            |                        |
|----------------------------|------------------------|
| Nominal Flux (lm)          | 75                     |
| Input Voltage              | - - <b>24VDC</b> 24VAC |
| Input Power (W)            | - - <b>0.5</b> 1.5     |
| Rated Flux (lm)            | - - <b>45</b> 98       |
| Efficacy (lm/W)            | - - <b>92</b> 64       |
| CCT                        | 2200K                  |
| CCT Description            | Ultra Warm White       |
| CRI (Ra)                   | 94                     |
| CRI (R9)                   | 67                     |
| TM-30 (Rf)                 | 92                     |
| TM-30 (Rg)                 | 98                     |
| SDCM                       | -                      |
| Peak Intensity (cd)        | 4.0                    |
| Nominal Beam Angle         | -                      |
| Measured Beam Angle (FWHM) | 315°                   |

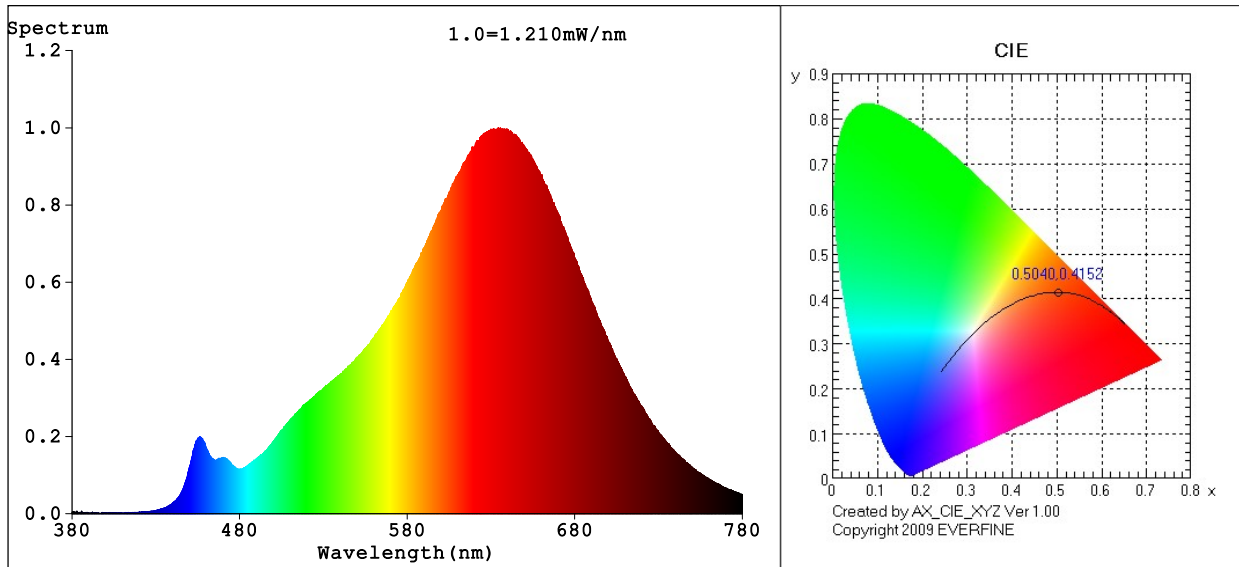
### Lifespan Data

|                  |          |
|------------------|----------|
| L70              | 100,000h |
| Switching Cycles | 100,000  |

### Compliance Data

|                 |     |
|-----------------|-----|
| EMI             | Yes |
| RCM             | N/A |
| Mercury Content | 0mg |

### Spectrum Test Report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.5040$   $y=0.4152$  /  $u'=0.2890$   $v'=0.5358$   
 CCT=2216K (Duv=-0.0000) Dominant WL:Ld =587.2nm WL:Lc = --nm Purity=75.9%  
 Ratio:R=31.6% G=66.6% B=1.8%; Peak WL:Lp=634.4nm FWHM=128.4nm  
 Render Index:Ra=94.3 AvgR=92.8 TM30:Rf=92 Rg=98

R1 =95 R2 =99 R3 =98 R4 =95 R5 =96 R6 =97 R7 =91  
 R8 =83 R9 =67 R10=97 R11=98 R12=89 R13=97 R14=99 R15=90

**Photo Parameters:**

Flux = 44.70 lm Eff. : 91.70 lm/W Fe = 181.3 mW

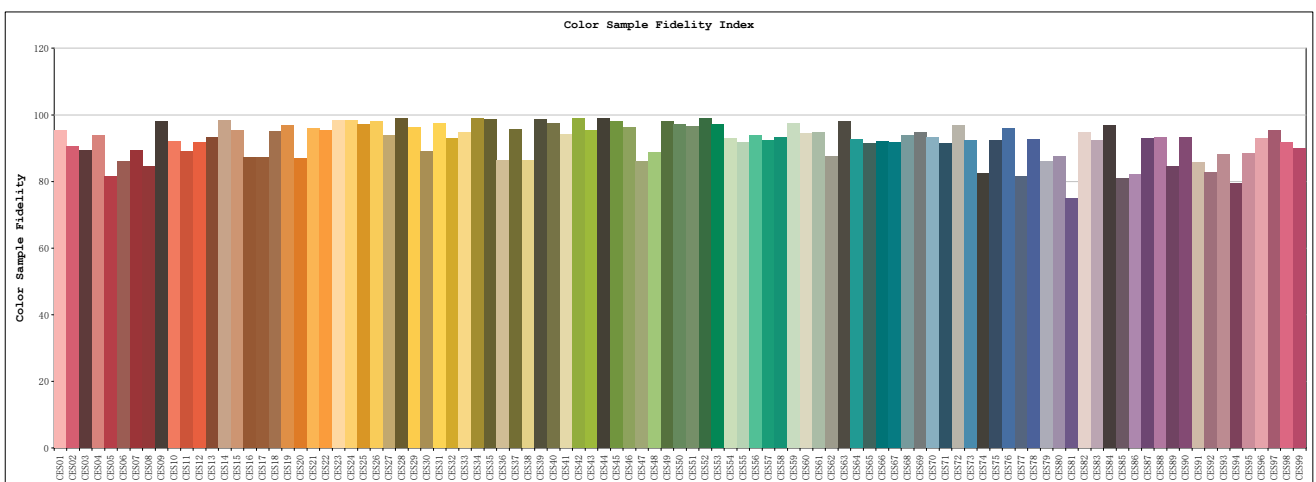
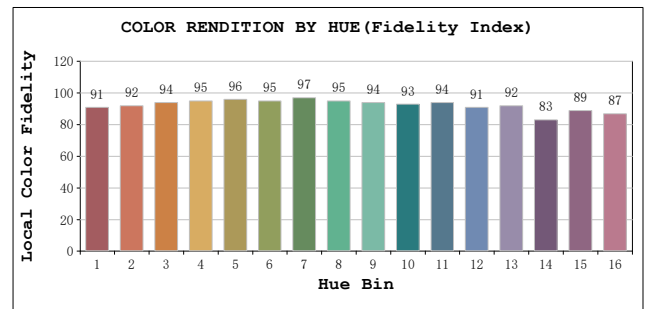
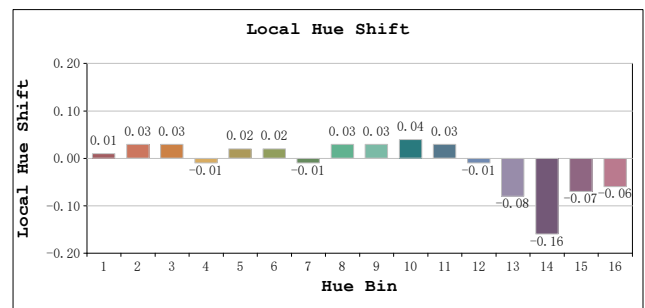
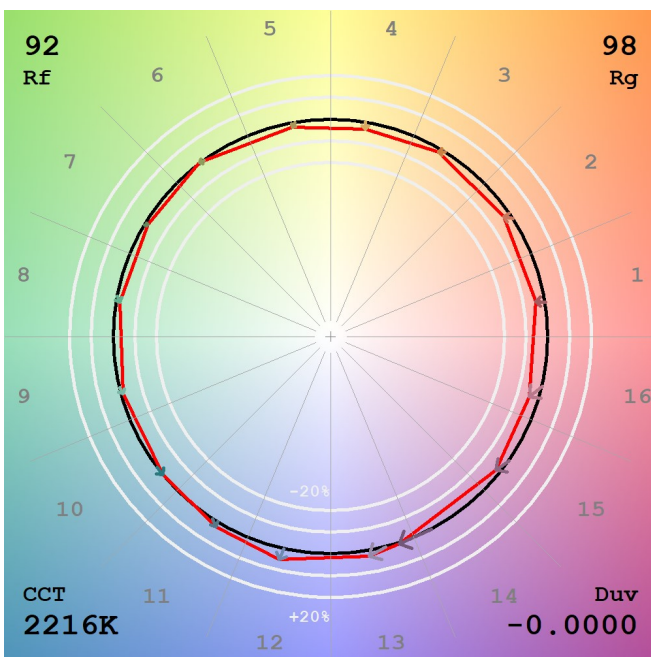
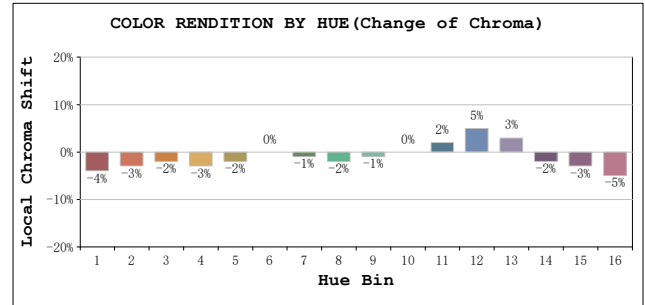
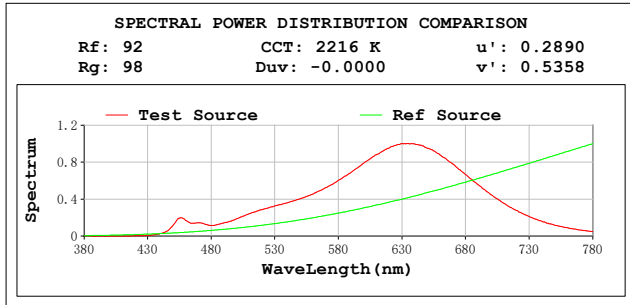
**Electrical parameters:**

V = 24.007 V I = 0.02031 A P = 0.4875 W PF = 1.000  
 LEVEL:OUT WHITE:EXT\_2200K  
 Status: Integral T = 2731 ms Ip = 50030 (76%)

**GBT5702**

# TM30

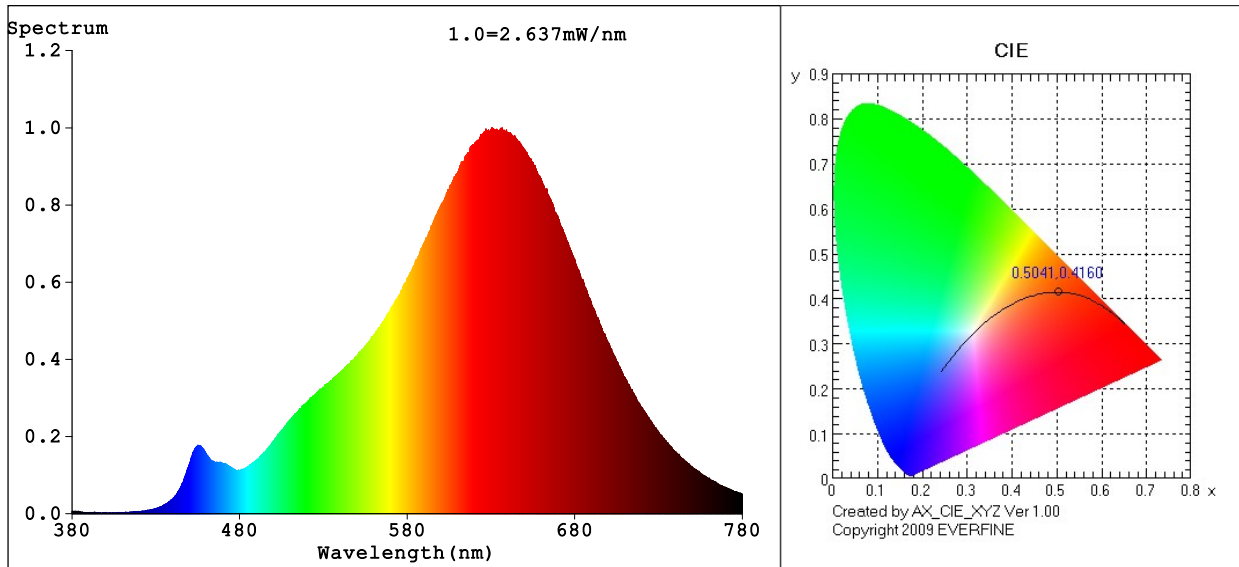
View Angle: 2 Deg



Model:AQF-G-005-2200K  
 Tester:EC  
 Temperature:25.3Deg  
 Manufacturer:AQUALUX

Number:AQF-G-005-2200K 24V DC  
 Date:2023-10-23 16:59:40  
 Humidity:65.0%  
 Remarks:24VDC

### Spectrum Test Report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.5041$   $y=0.4160$  /  $u'=0.2887$   $v'=0.5361$   
 CCT=2221K (Duv=0.0002) Dominant WL:Ld =587.0nm WL:Lc = --nm Purity=76.2%  
 Ratio:R=31.4% G=66.9% B=1.7%; Peak WL:Lp=630.8nm FWHM=128.3nm  
 Render Index:Ra=93.9 AvgR=92.0 TM30:Rf=93 Rg=98

R1 =94 R2 =98 R3 =99 R4 =94 R5 =95 R6 =98 R7 =91  
 R8 =82 R9 =64 R10=95 R11=97 R12=90 R13=95 R14=99 R15=89

**Photo Parameters:**

Flux = 98.35 lm Eff. : 64.28 lm/W Fe = 395.2 mW

**Electrical parameters:**

V = 23.986 V I = 0.07189 A P = 1.530 W PF = 0.8873

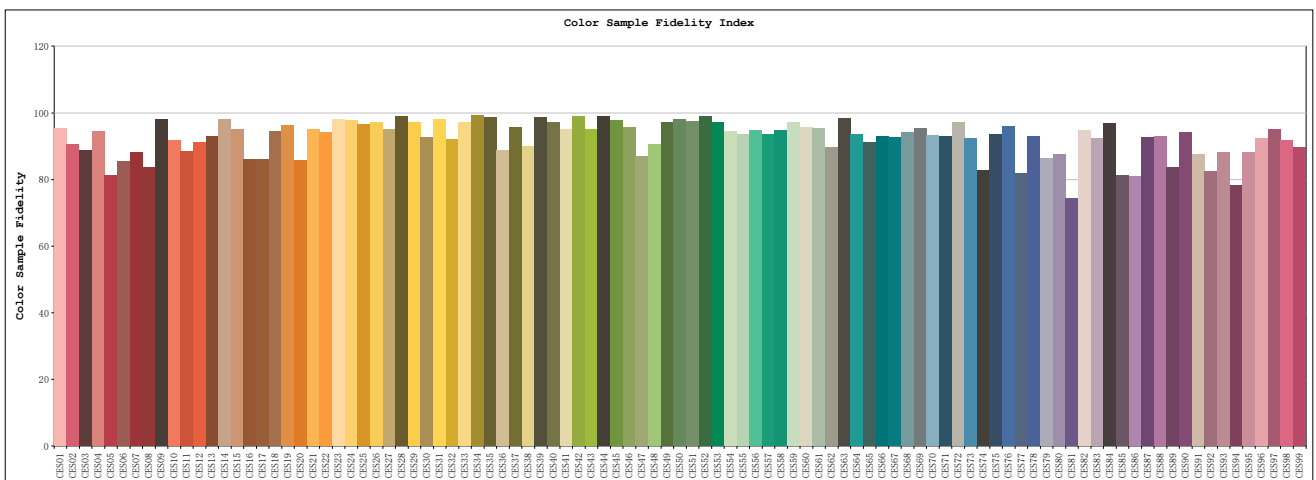
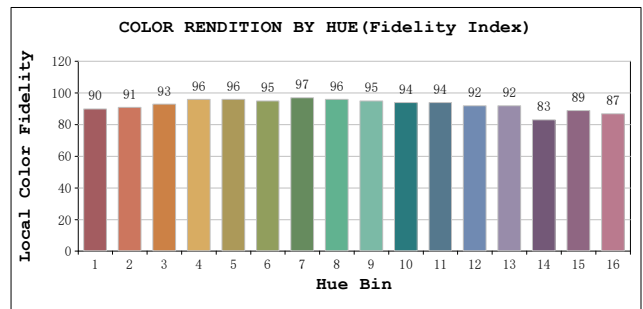
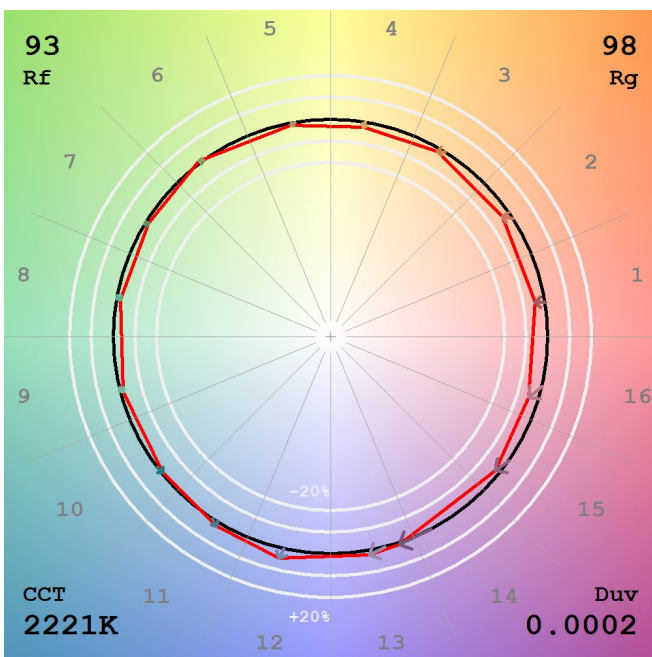
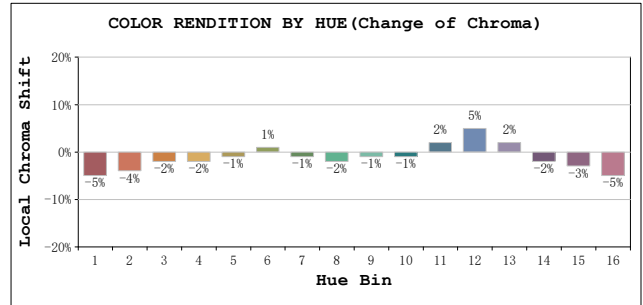
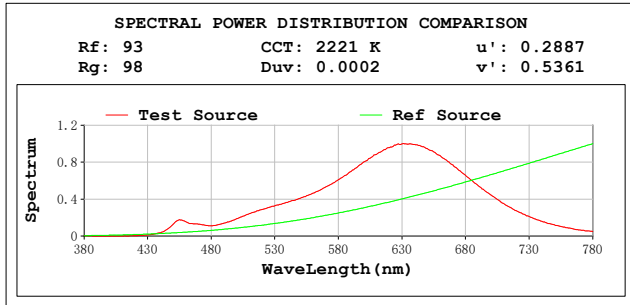
LEVEL:OUT WHITE:EXT\_2200K

Status: Integral T = 1000 ms Ip = 40212 (61%)

**GBT5702**

# TM30

View Angle:2 Deg



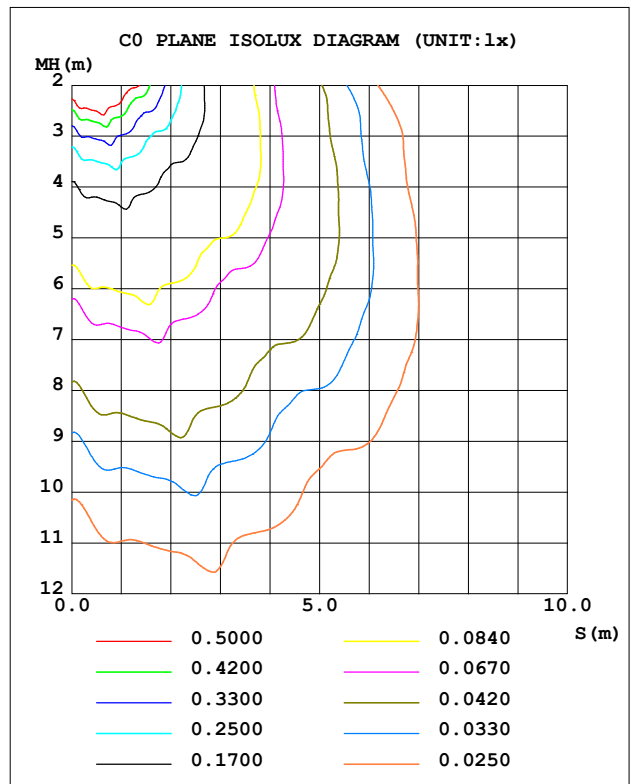
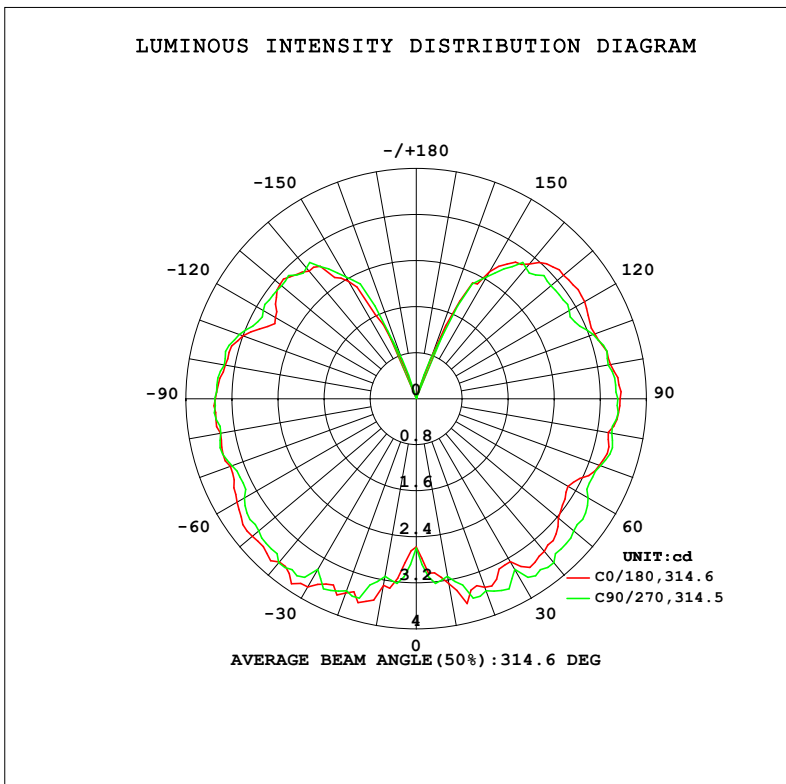
Model:AQF-G-005-2200K  
 Tester:EC  
 Temperature:25.3Deg  
 Manufacturer:AQUALUX

Number:AQF-G-005-2200K 24V AC  
 Date:2023-10-23 17:02:39  
 Humidity:65.0%  
 Remarks:24VAC

LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA      |         |                     | Eff: 80.24 lm/W |
|-------------------|---------|-----------------------|---------|---------------------|-----------------|
| MODEL             |         | I <sub>max</sub> (cd) | 4.037   | S/MH (C0/180)       | 2.01            |
| NOMINAL POWER (W) | 2       | LOR (%)               | 100.0   | S/MH (C90/270)      | 1.99            |
| RATED VOLTAGE (V) | 24      | TOTAL FLUX (lm)       | 40.650  | η UP, DN (C0-180)   | 22.8, 27.2      |
| NOMINAL FLUX (lm) | 40.6499 | CIE CLASS             | DIFFUSE | η UP, DN (C180-360) | 22.6, 27.4      |
| LAMPS INSIDE      | 1       | η up (%)              | 45.5    | CIBSE SHR NOM       | 1.75            |
| TEST VOLTAGE (V)  | 24      | η down (%)            | 54.5    | CIBSE SHR MAX       | 1.75            |



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

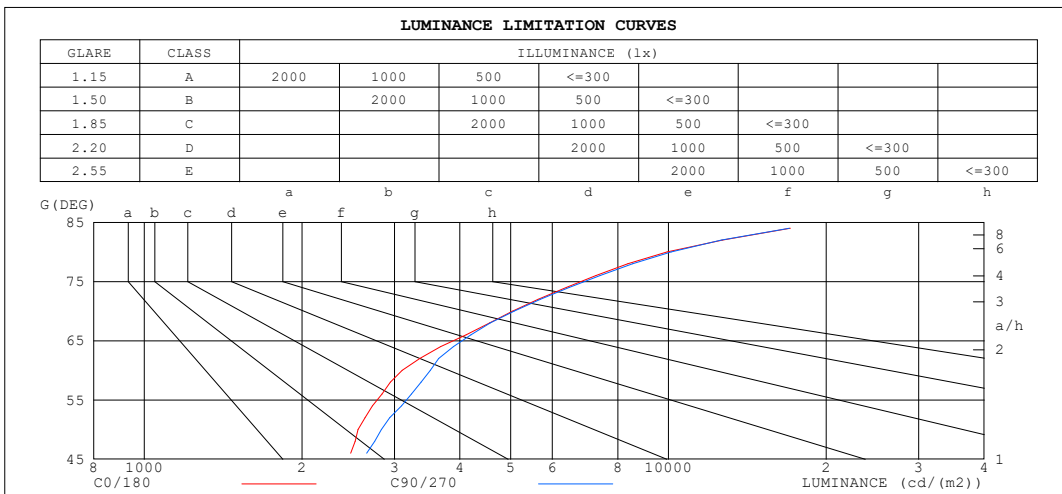
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\phi$ zone | $\phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 3.260                 | 3.275  | 3.133  | 3.478  | 3.293  | 3.478  | 3.133  | 3.275  | 0- 10    | 0.3056      | 0.3056       | 0.75,0.75  |
| 20       | 3.483                 | 3.485  | 3.553  | 3.711  | 3.592  | 3.711  | 3.553  | 3.485  | 10- 20   | 1.015       | 1.320        | 3.25,3.25  |
| 30       | 3.270                 | 3.368  | 3.425  | 3.738  | 3.774  | 3.738  | 3.425  | 3.368  | 20- 30   | 1.666       | 2.986        | 7.34,7.34  |
| 40       | 3.464                 | 3.607  | 3.717  | 3.846  | 3.703  | 3.846  | 3.717  | 3.607  | 30- 40   | 2.307       | 5.292        | 13,13      |
| 50       | 3.226                 | 3.430  | 3.574  | 3.767  | 3.719  | 3.767  | 3.574  | 3.430  | 40- 50   | 2.810       | 8.103        | 19.9,19.9  |
| 60       | 3.045                 | 3.392  | 3.448  | 3.588  | 3.593  | 3.588  | 3.448  | 3.392  | 50- 60   | 3.152       | 11.25        | 27.7,27.7  |
| 70       | 3.386                 | 3.503  | 3.407  | 3.399  | 3.439  | 3.399  | 3.407  | 3.503  | 60- 70   | 3.386       | 14.64        | 36,36      |
| 80       | 3.388                 | 3.535  | 3.451  | 3.457  | 3.453  | 3.457  | 3.451  | 3.535  | 70- 80   | 3.681       | 18.32        | 45.1,45.1  |
| 90       | 3.544                 | 3.658  | 3.502  | 3.452  | 3.490  | 3.452  | 3.502  | 3.658  | 80- 90   | 3.844       | 22.17        | 54.5,54.5  |
| 100      | 3.428                 | 3.527  | 3.386  | 3.315  | 3.372  | 3.315  | 3.386  | 3.527  | 90-100   | 3.810       | 25.98        | 63.9,63.9  |
| 110      | 3.302                 | 3.425  | 3.271  | 3.094  | 3.202  | 3.094  | 3.271  | 3.425  | 100-110  | 3.570       | 29.55        | 72.7,72.7  |
| 120      | 3.380                 | 3.392  | 3.072  | 2.917  | 2.824  | 2.917  | 3.072  | 3.392  | 110-120  | 3.139       | 32.68        | 80.4,80.4  |
| 130      | 3.342                 | 3.446  | 3.055  | 2.968  | 3.094  | 2.968  | 3.055  | 3.446  | 120-130  | 2.830       | 35.51        | 87.4,87.4  |
| 140      | 3.057                 | 3.208  | 2.971  | 2.952  | 2.898  | 2.952  | 2.971  | 3.208  | 130-140  | 2.430       | 37.94        | 93.3,93.3  |
| 150      | 2.548                 | 2.515  | 2.450  | 2.398  | 2.357  | 2.398  | 2.450  | 2.515  | 140-150  | 1.781       | 39.73        | 97.7,97.7  |
| 160      | 0.7419                | 0.8516 | 0.7289 | 0.6925 | 0.5227 | 0.6925 | 0.7289 | 0.8516 | 150-160  | 0.8615      | 40.59        | 99.8,99.8  |
| 170      | 0.0218                | 0.0206 | 0.0226 | 0.0175 | 0.0178 | 0.0175 | 0.0226 | 0.0206 | 160-170  | 0.0613      | 40.65        | 100,100    |
| 180      | 0.0190                | 0.0178 | 0.0226 | 0.0202 | 0.0214 | 0.0202 | 0.0226 | 0.0178 | 170-180  | 0.0017      | 40.65        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

**LUMINANCE LIMITATION CURVES**

|   |                        |                         |
|---|------------------------|-------------------------|
| <b>Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz</b><br><b>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm</b> |                        |                         |
| <b>NAME: AQF-G-005-2200K</b>  | <b>TYPE: E27 GLOBE</b> | <b>WEIGHT:</b>          |
| <b>SPEC.:</b>   | <b>DIM.:</b>           | <b>SERIAL No.: -</b>    |
| <b>MFR.: AQUALUX</b>  | <b>SUR.:</b>           | <b>Shielding Angle:</b> |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 20484  | 20408   |
| 80                | 9940   | 10125   |
| 75                | 6802   | 6884    |
| 70                | 5044   | 5075    |
| 65                | 3812   | 4032    |
| 60                | 3103   | 3513    |
| 55                | 2790   | 3172    |
| 50                | 2556   | 2833    |
| 45                | 2466   | 2614    |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

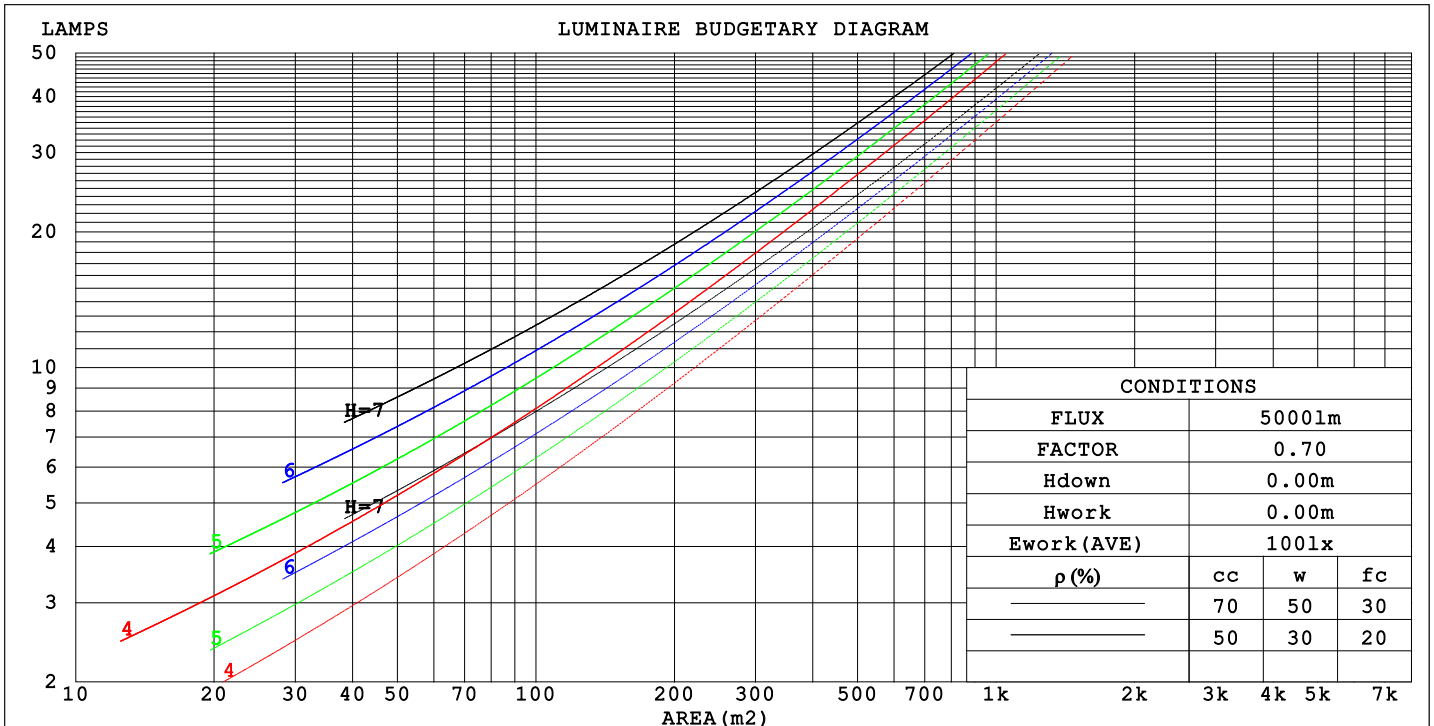
γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC



**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHdi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |     |     | 30% |     |     | 10% |     |     | 0   |
|------|-----------------------|------|------|------|------|------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |     |
| pw   | 20%                   |      |      | 20%  |      |      | 20%                             |     |     | 20% |     |     | 20% |     |     | 0   |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |     |     | 20% |     |     | 20% |     |     |     |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |
| 0.0  | 1.08                  | 1.08 | 1.08 | 1.00 | 1.00 | 1.00 | .86                             | .86 | .86 | .73 | .73 | .73 | .60 | .60 | .60 | .55 |
| 1.0  | .88                   | .82  | .77  | .81  | .76  | .72  | .68                             | .65 | .61 | .57 | .54 | .51 | .46 | .44 | .42 | .37 |
| 2.0  | .74                   | .66  | .60  | .69  | .62  | .56  | .58                             | .52 | .47 | .48 | .43 | .40 | .38 | .35 | .32 | .27 |
| 3.0  | .64                   | .55  | .48  | .59  | .51  | .45  | .50                             | .43 | .38 | .41 | .36 | .32 | .33 | .29 | .26 | .21 |
| 4.0  | .56                   | .47  | .39  | .52  | .43  | .37  | .43                             | .37 | .31 | .36 | .30 | .26 | .28 | .24 | .21 | .17 |
| 5.0  | .49                   | .40  | .33  | .46  | .37  | .31  | .38                             | .32 | .26 | .32 | .26 | .22 | .25 | .21 | .18 | .14 |
| 6.0  | .44                   | .35  | .28  | .41  | .32  | .26  | .34                             | .27 | .22 | .28 | .23 | .19 | .23 | .18 | .15 | .12 |
| 7.0  | .39                   | .31  | .24  | .36  | .28  | .23  | .31                             | .24 | .19 | .25 | .20 | .16 | .20 | .16 | .13 | .10 |
| 8.0  | .36                   | .27  | .21  | .33  | .25  | .20  | .28                             | .22 | .17 | .23 | .18 | .14 | .19 | .15 | .12 | .09 |
| 9.0  | .32                   | .24  | .19  | .30  | .23  | .17  | .25                             | .19 | .15 | .21 | .16 | .13 | .17 | .13 | .10 | .08 |
| 10.0 | .30                   | .22  | .17  | .27  | .20  | .15  | .23                             | .17 | .13 | .20 | .15 | .11 | .16 | .12 | .09 | .07 |



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

**WEC AND CCEC**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

| ρcc  | 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 |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |
| 1.0  | .406                  | .231 | .073 | .385 | .220 | .070 | .345                             | .198 | .063 | .309 | .178 | .057 | .276 | .160 | .052 |   |
| 2.0  | .340                  | .186 | .057 | .320 | .177 | .054 | .284                             | .158 | .049 | .251 | .141 | .044 | .220 | .125 | .039 |   |
| 3.0  | .297                  | .158 | .047 | .279 | .150 | .045 | .246                             | .133 | .041 | .216 | .118 | .036 | .188 | .104 | .032 |   |
| 4.0  | .264                  | .137 | .040 | .248 | .130 | .038 | .218                             | .116 | .035 | .190 | .102 | .031 | .164 | .089 | .027 |   |
| 5.0  | .239                  | .122 | .035 | .224 | .115 | .034 | .197                             | .102 | .030 | .171 | .090 | .027 | .147 | .078 | .024 |   |
| 6.0  | .218                  | .109 | .031 | .204 | .103 | .030 | .179                             | .092 | .027 | .155 | .081 | .024 | .133 | .070 | .021 |   |
| 7.0  | .200                  | .099 | .028 | .188 | .094 | .027 | .164                             | .083 | .024 | .142 | .073 | .021 | .121 | .063 | .019 |   |
| 8.0  | .185                  | .091 | .025 | .174 | .086 | .024 | .152                             | .076 | .022 | .131 | .067 | .019 | .112 | .057 | .017 |   |
| 9.0  | .172                  | .083 | .023 | .162 | .079 | .022 | .141                             | .070 | .020 | .122 | .061 | .018 | .104 | .053 | .015 |   |
| 10.0 | .161                  | .077 | .021 | .151 | .073 | .020 | .132                             | .065 | .018 | .114 | .057 | .016 | .097 | .049 | .014 |   |

| ρcc  | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .537                  | .537 | .537 | .459 | .459 | .459 | .313  | .313 | .313 | .180 | .180 | .180 | .058 | .058 | .058 |   |
| 1.0  | .536                  | .505 | .476 | .459 | .433 | .410 | .314  | .298 | .283 | .181 | .172 | .165 | .058 | .055 | .053 |   |
| 2.0  | .530                  | .483 | .444 | .454 | .416 | .384 | .311  | .288 | .268 | .179 | .167 | .157 | .058 | .054 | .051 |   |
| 3.0  | .523                  | .468 | .424 | .449 | .404 | .368 | .308  | .280 | .258 | .178 | .164 | .152 | .057 | .053 | .050 |   |
| 4.0  | .516                  | .456 | .411 | .443 | .394 | .357 | .304  | .275 | .252 | .176 | .161 | .149 | .057 | .052 | .049 |   |
| 5.0  | .508                  | .447 | .402 | .437 | .387 | .350 | .301  | .270 | .247 | .174 | .159 | .147 | .056 | .052 | .048 |   |
| 6.0  | .501                  | .440 | .396 | .431 | .381 | .345 | .297  | .267 | .244 | .172 | .157 | .145 | .056 | .051 | .048 |   |
| 7.0  | .494                  | .434 | .391 | .425 | .376 | .341 | .294  | .264 | .242 | .171 | .155 | .144 | .055 | .051 | .048 |   |
| 8.0  | .488                  | .428 | .388 | .420 | .372 | .338 | .291  | .261 | .240 | .169 | .154 | .143 | .055 | .050 | .047 |   |
| 9.0  | .482                  | .424 | .385 | .415 | .368 | .336 | .288  | .259 | .238 | .168 | .153 | .142 | .054 | .050 | .047 |   |
| 10.0 | .476                  | .420 | .383 | .410 | .365 | .334 | .285  | .257 | .237 | .166 | .152 | .142 | .054 | .050 | .047 |   |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

**UGR(Unified Glare Rating) Table**

|   |                  |      |      |      |                 |                |      |                  |      |      |
|---|------------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz           |                  |      |      |      |                 |                |      |                  |      |      |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm          |                  |      |      |      |                 |                |      |                  |      |      |
| NAME: AQF-G-005-2200K   |                  |      |      |      | TYPE: E27 GLOBE |                |      | WEIGHT:          |      |      |
| SPEC.:  |                  |      |      |      | DIM.:           |                |      | SERIAL No.: -    |      |      |
| MFR.: AQUALUX   |                  |      |      |      | 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   | 24.5             | 25.6 | 25.3 | 26.5 | 27.5            | 24.9           | 26.0 | 25.7             | 26.9 | 27.9 |
| 3H  | 27.9             | 28.9 | 28.7 | 29.7 | 30.8            | 28.0           | 29.0 | 28.8             | 29.9 | 31.0 |
| 4H  | 29.8             | 30.8 | 30.7 | 31.6 | 32.8            | 29.9           | 30.8 | 30.7             | 31.7 | 32.9 |
| 6H  | 31.8             | 32.7 | 32.7 | 33.6 | 34.8            | 31.9           | 32.8 | 32.8             | 33.7 | 34.9 |
| 8H  | 33.0             | 33.9 | 33.9 | 34.8 | 35.9            | 33.0           | 33.9 | 33.9             | 34.8 | 36.0 |
| 12H   | 34.4             | 35.2 | 35.2 | 36.1 | 37.3            | 34.4           | 35.2 | 35.3             | 36.1 | 37.3 |
| 4H 2H   | 25.6             | 26.5 | 26.4 | 27.4 | 28.6            | 25.8           | 26.8 | 26.7             | 27.7 | 28.8 |
| 3H  | 29.1             | 29.9 | 30.0 | 30.8 | 32.0            | 29.1           | 30.0 | 30.0             | 30.9 | 32.0 |
| 4H  | 31.1             | 31.9 | 32.0 | 32.8 | 34.0            | 31.2           | 31.9 | 32.1             | 32.9 | 34.0 |
| 6H  | 33.3             | 34.0 | 34.2 | 34.9 | 36.1            | 33.3           | 34.0 | 34.3             | 35.0 | 36.2 |
| 8H  | 34.6             | 35.2 | 35.5 | 36.1 | 37.4            | 34.6           | 35.2 | 35.5             | 36.2 | 37.4 |
| 12H   | 36.0             | 36.6 | 36.9 | 37.6 | 38.8            | 36.0           | 36.6 | 36.9             | 37.5 | 38.8 |
| 8H 4H   | 31.9             | 32.5 | 32.8 | 33.5 | 34.7            | 31.9           | 32.5 | 32.8             | 33.5 | 34.7 |
| 6H  | 34.3             | 34.9 | 35.3 | 35.8 | 37.1            | 34.3           | 34.9 | 35.3             | 35.9 | 37.1 |
| 8H  | 35.8             | 36.3 | 36.7 | 37.2 | 38.5            | 35.8           | 36.2 | 36.7             | 37.2 | 38.5 |
| 12H   | 37.4             | 37.9 | 38.4 | 38.9 | 40.2            | 37.4           | 37.8 | 38.4             | 38.8 | 40.1 |
| 12H 4H  | 32.1             | 32.7 | 33.0 | 33.6 | 34.9            | 32.1           | 32.7 | 33.1             | 33.7 | 34.9 |
| 6H  | 34.7             | 35.1 | 35.6 | 36.1 | 37.4            | 34.7           | 35.2 | 35.6             | 36.1 | 37.4 |
| 8H  | 36.2             | 36.7 | 37.2 | 37.7 | 38.9            | 36.2           | 36.6 | 37.2             | 37.6 | 38.9 |
| Variations with the observer position at spacings(CIE Pub.117): |                  |      |      |      |                 |                |      |                  |      |      |
| S = 1.0H  | + 0.1 / - 0.1    |      |      |      |                 | + 0.1 / - 0.1  |      |                  |      |      |
| 1.5H  | + 0.2 / - 0.3    |      |      |      |                 | + 0.2 / - 0.3  |      |                  |      |      |
| 2.0H  | + 0.3 / - 0.4    |      |      |      |                 | + 0.3 / - 0.4  |      |                  |      |      |

CIE Pub.117, 40.65 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -11.1)  
 Area: 0.001963 m2

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

**UTILIZATION FACTORS TABLE**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

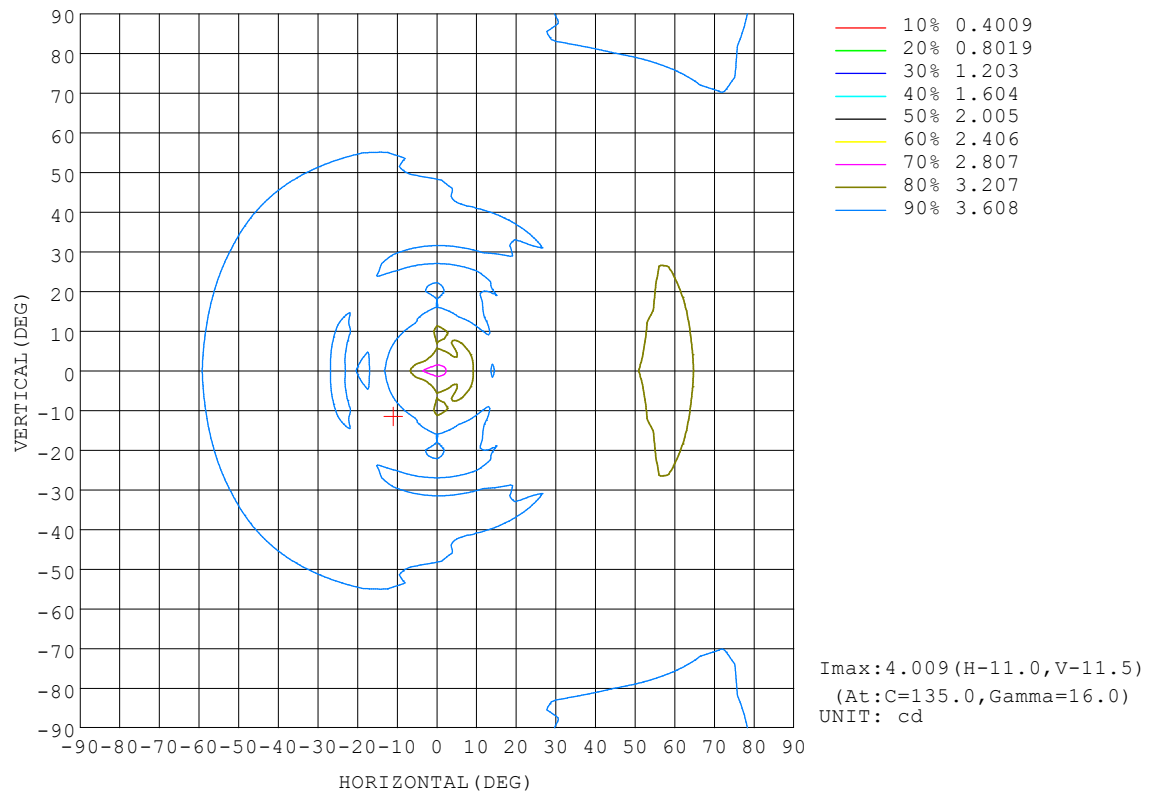
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 38   | 25  | 18        | 36  | 24  | 18  | 33            | 23  | 16  | 9      |
| 0.80                             | 46   | 33  | 25        | 44  | 31  | 24  | 39            | 29  | 22  | 13     |
| 1.00                             | 54   | 40  | 31        | 50  | 38  | 30  | 45            | 36  | 27  | 16     |
| 1.25                             | 61   | 47  | 37        | 57  | 44  | 36  | 50            | 39  | 32  | 19     |
| 1.50                             | 66   | 52  | 43        | 61  | 49  | 41  | 53            | 44  | 36  | 22     |
| 2.00                             | 73   | 61  | 51        | 68  | 57  | 49  | 59            | 50  | 43  | 26     |
| 2.50                             | 78   | 67  | 57        | 73  | 62  | 54  | 63            | 54  | 48  | 29     |
| 3.00                             | 82   | 71  | 63        | 76  | 67  | 59  | 66            | 58  | 52  | 31     |
| 4.00                             | 87   | 78  | 70        | 81  | 73  | 66  | 69            | 63  | 58  | 35     |
| 5.00                             | 91   | 83  | 76        | 84  | 77  | 71  | 72            | 66  | 61  | 37     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

ISOCANDELA DIAGRAM

|   |                 |                  |
|---|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K   | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:  | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX   | SUR.:           | Shielding Angle: |

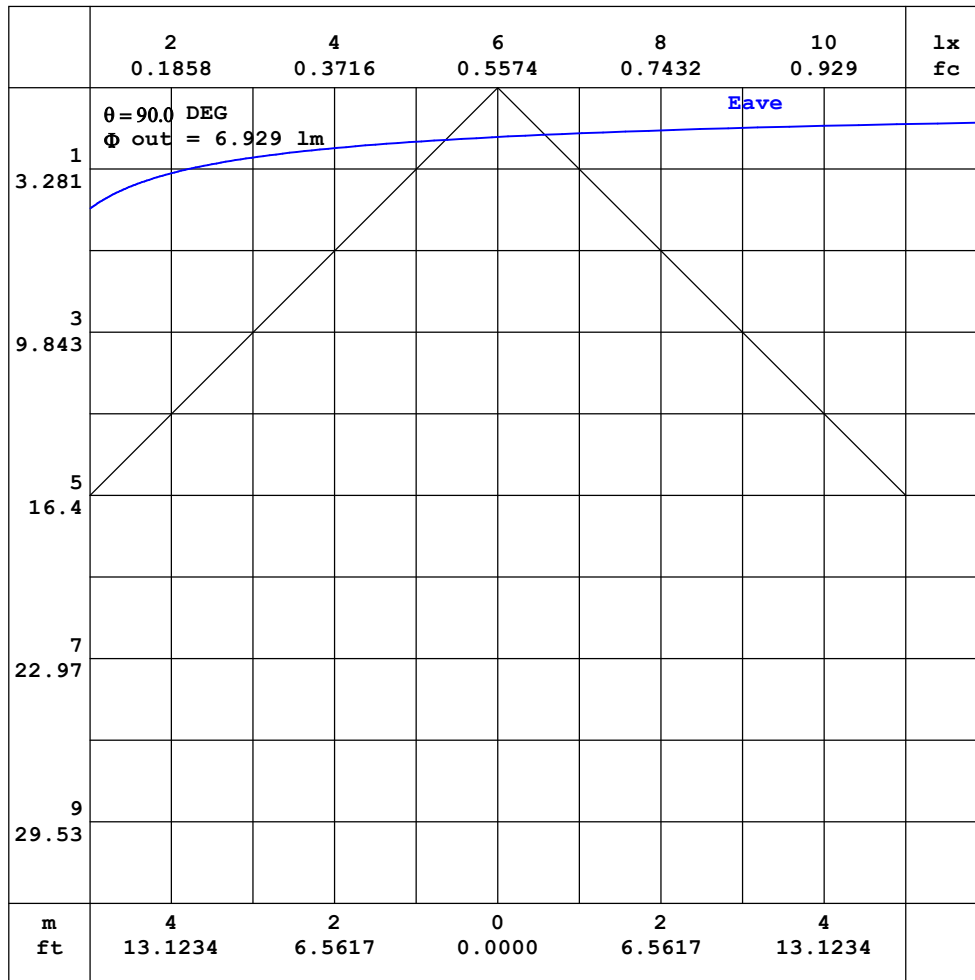


C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

AAI CURVES

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |



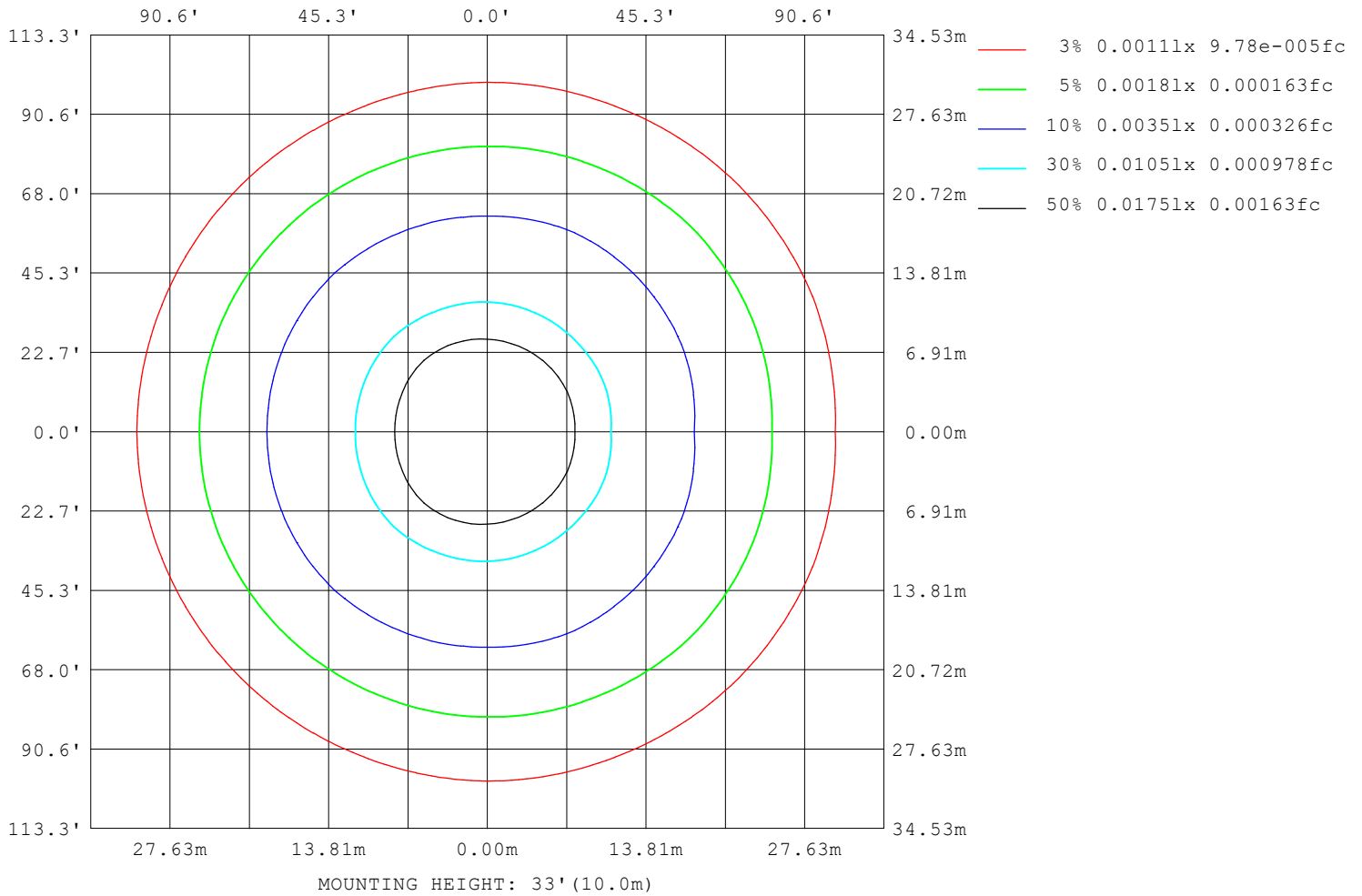
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

ISOLUX DIAGRAM

|   |                 |                  |
|---|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K   | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:  | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX   | SUR.:           | Shielding Angle: |



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

**LED Avg.L Report**

|   |                 |                  |
|---|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K   | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:  | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX   | SUR.:           | Shielding Angle: |

| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 4049  |
| L_0~180 (75) av  | 6839  |
| L_0~180 (85) av  | 20486 |
| L_90~270 (65) av | 4035  |
| L_90~270 (75) av | 6910  |
| L_90~270 (85) av | 20510 |
| L_45 (65) av     | 4155  |
| L_45 (75) av     | 6929  |
| L_45 (85) av     | 20919 |

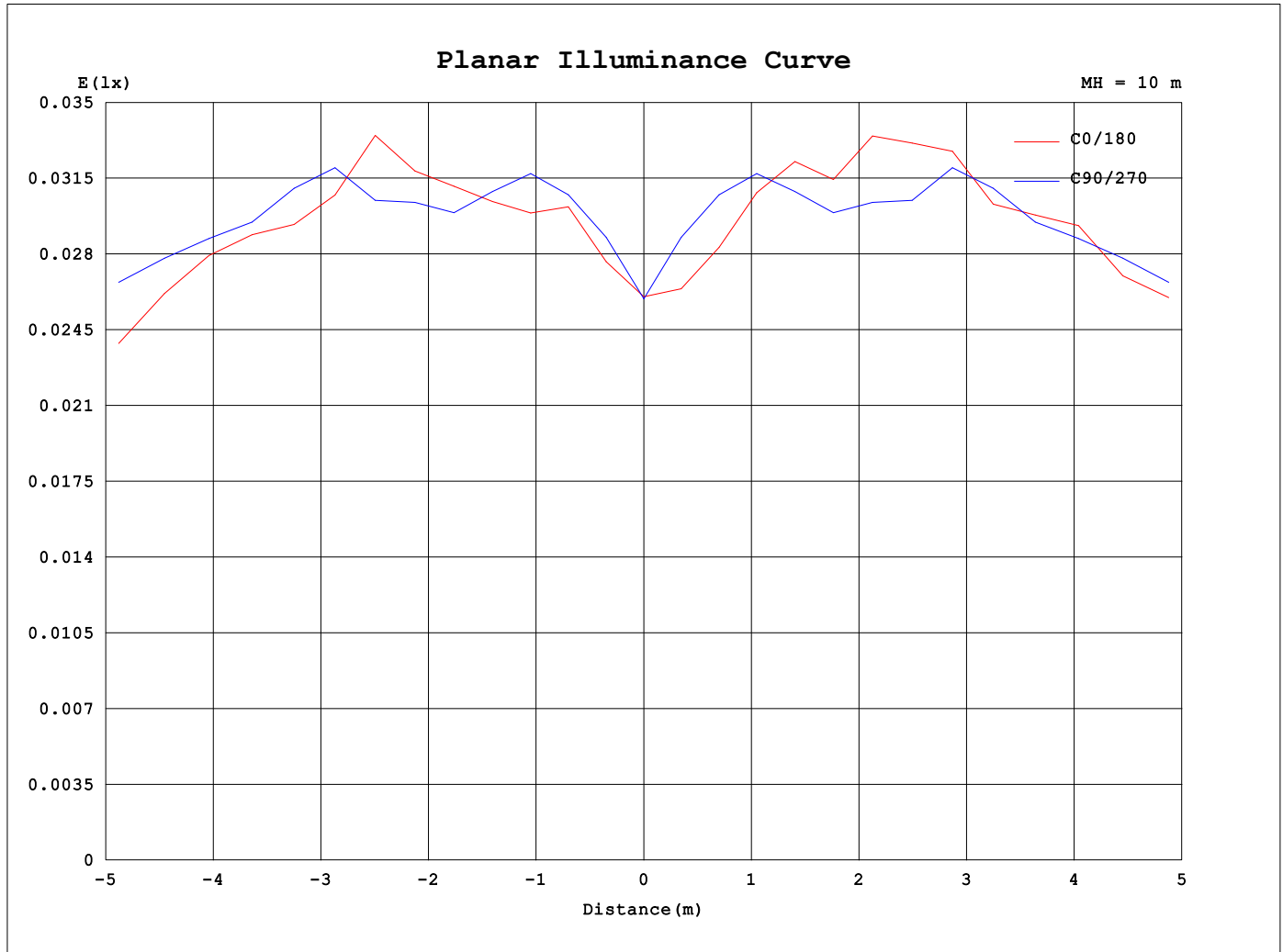
Standard: GB/T 29293-2012

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC



Planar Illuminance Curve



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.985V I:0.0211A P:0.5066W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:40.6499x1 lm |                 |                  |
| NAME: AQF-G-005-2200K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                 | 2.58 | 2.58 | 2.59 | 2.59 | 2.59 | 2.60  | 2.60 | 2.60  | 2.60 | 2.60  | 2.60 | 2.60  | 2.59 | 2.59  | 2.59 | 2.58  |  |  |  |
| 5                 | 3.04 | 3.03 | 3.01 | 2.94 | 3.10 | 3.22  | 3.25 | 3.14  | 2.85 | 3.14  | 3.25 | 3.22  | 3.10 | 2.94  | 3.01 | 3.03  |  |  |  |
| 10                | 3.26 | 3.27 | 3.27 | 3.24 | 3.13 | 3.50  | 3.48 | 3.38  | 3.29 | 3.38  | 3.48 | 3.50  | 3.13 | 3.24  | 3.27 | 3.27  |  |  |  |
| 15                | 3.67 | 3.49 | 3.48 | 3.53 | 3.34 | 3.63  | 3.70 | 3.87  | 3.63 | 3.87  | 3.70 | 3.63  | 3.34 | 3.53  | 3.48 | 3.49  |  |  |  |
| 20                | 3.48 | 3.50 | 3.49 | 3.79 | 3.55 | 3.70  | 3.71 | 3.72  | 3.59 | 3.72  | 3.71 | 3.70  | 3.55 | 3.79  | 3.49 | 3.50  |  |  |  |
| 25                | 3.43 | 3.54 | 3.61 | 3.63 | 3.65 | 3.69  | 3.93 | 3.58  | 3.54 | 3.58  | 3.93 | 3.69  | 3.65 | 3.63  | 3.61 | 3.54  |  |  |  |
| 30                | 3.27 | 3.39 | 3.37 | 3.51 | 3.42 | 3.55  | 3.74 | 3.81  | 3.77 | 3.81  | 3.74 | 3.55  | 3.42 | 3.51  | 3.37 | 3.39  |  |  |  |
| 35                | 3.53 | 3.60 | 3.55 | 3.69 | 3.71 | 3.78  | 3.85 | 3.83  | 3.88 | 3.83  | 3.85 | 3.78  | 3.71 | 3.69  | 3.55 | 3.60  |  |  |  |
| 40                | 3.46 | 3.57 | 3.61 | 3.67 | 3.72 | 3.83  | 3.85 | 3.73  | 3.70 | 3.73  | 3.85 | 3.83  | 3.72 | 3.67  | 3.61 | 3.57  |  |  |  |
| 45                | 3.42 | 3.50 | 3.53 | 3.54 | 3.63 | 3.68  | 3.84 | 3.83  | 3.74 | 3.83  | 3.84 | 3.68  | 3.63 | 3.54  | 3.53 | 3.50  |  |  |  |
| 50                | 3.23 | 3.41 | 3.43 | 3.47 | 3.57 | 3.66  | 3.77 | 3.73  | 3.72 | 3.73  | 3.77 | 3.66  | 3.57 | 3.47  | 3.43 | 3.41  |  |  |  |
| 55                | 3.14 | 3.31 | 3.40 | 3.45 | 3.57 | 3.65  | 3.72 | 3.72  | 3.72 | 3.72  | 3.72 | 3.65  | 3.57 | 3.45  | 3.40 | 3.31  |  |  |  |
| 60                | 3.05 | 3.26 | 3.39 | 3.46 | 3.45 | 3.52  | 3.59 | 3.57  | 3.59 | 3.57  | 3.59 | 3.52  | 3.45 | 3.46  | 3.39 | 3.26  |  |  |  |
| 65                | 3.16 | 3.30 | 3.34 | 3.40 | 3.34 | 3.38  | 3.54 | 3.54  | 3.53 | 3.54  | 3.54 | 3.38  | 3.34 | 3.40  | 3.34 | 3.30  |  |  |  |
| 70                | 3.39 | 3.47 | 3.50 | 3.42 | 3.41 | 3.36  | 3.40 | 3.45  | 3.44 | 3.45  | 3.40 | 3.36  | 3.41 | 3.42  | 3.50 | 3.47  |  |  |  |
| 75                | 3.46 | 3.57 | 3.55 | 3.51 | 3.50 | 3.42  | 3.47 | 3.42  | 3.49 | 3.42  | 3.47 | 3.42  | 3.50 | 3.51  | 3.55 | 3.57  |  |  |  |
| 80                | 3.39 | 3.55 | 3.53 | 3.51 | 3.45 | 3.41  | 3.46 | 3.43  | 3.45 | 3.43  | 3.46 | 3.41  | 3.45 | 3.51  | 3.53 | 3.55  |  |  |  |
| 85                | 3.50 | 3.64 | 3.65 | 3.59 | 3.49 | 3.43  | 3.49 | 3.47  | 3.50 | 3.47  | 3.49 | 3.43  | 3.49 | 3.59  | 3.65 | 3.64  |  |  |  |
| 90                | 3.54 | 3.67 | 3.66 | 3.59 | 3.50 | 3.46  | 3.45 | 3.45  | 3.49 | 3.45  | 3.45 | 3.46  | 3.50 | 3.59  | 3.66 | 3.67  |  |  |  |
| 95                | 3.53 | 3.66 | 3.62 | 3.54 | 3.47 | 3.42  | 3.42 | 3.42  | 3.45 | 3.42  | 3.42 | 3.42  | 3.47 | 3.54  | 3.62 | 3.66  |  |  |  |
| 100               | 3.43 | 3.54 | 3.53 | 3.48 | 3.39 | 3.31  | 3.32 | 3.32  | 3.37 | 3.32  | 3.32 | 3.31  | 3.39 | 3.48  | 3.53 | 3.54  |  |  |  |
| 105               | 3.42 | 3.60 | 3.50 | 3.51 | 3.41 | 3.30  | 3.27 | 3.29  | 3.35 | 3.29  | 3.27 | 3.30  | 3.41 | 3.51  | 3.50 | 3.60  |  |  |  |
| 110               | 3.30 | 3.46 | 3.42 | 3.40 | 3.27 | 3.18  | 3.09 | 3.15  | 3.20 | 3.15  | 3.09 | 3.18  | 3.27 | 3.40  | 3.42 | 3.46  |  |  |  |
| 115               | 3.30 | 3.39 | 3.41 | 3.25 | 3.11 | 3.01  | 2.99 | 3.01  | 2.98 | 3.01  | 2.99 | 3.01  | 3.11 | 3.25  | 3.41 | 3.39  |  |  |  |
| 120               | 3.38 | 3.50 | 3.39 | 3.20 | 3.07 | 2.98  | 2.92 | 2.85  | 2.82 | 2.85  | 2.92 | 2.98  | 3.07 | 3.20  | 3.39 | 3.50  |  |  |  |
| 125               | 3.39 | 3.56 | 3.50 | 3.25 | 3.08 | 2.97  | 2.90 | 2.88  | 2.95 | 2.88  | 2.90 | 2.97  | 3.08 | 3.25  | 3.50 | 3.56  |  |  |  |
| 130               | 3.34 | 3.45 | 3.45 | 3.23 | 3.06 | 3.01  | 2.97 | 3.00  | 3.09 | 3.00  | 2.97 | 3.01  | 3.06 | 3.23  | 3.45 | 3.45  |  |  |  |
| 135               | 3.30 | 3.43 | 3.46 | 3.22 | 3.09 | 2.98  | 2.97 | 2.99  | 3.05 | 2.99  | 2.97 | 2.98  | 3.09 | 3.22  | 3.46 | 3.43  |  |  |  |
| 140               | 3.06 | 3.16 | 3.21 | 3.07 | 2.97 | 2.97  | 2.95 | 2.95  | 2.90 | 2.95  | 2.95 | 2.97  | 2.97 | 3.07  | 3.21 | 3.16  |  |  |  |
| 145               | 2.93 | 3.11 | 3.15 | 2.97 | 2.84 | 2.82  | 2.88 | 2.88  | 2.84 | 2.88  | 2.88 | 2.82  | 2.84 | 2.97  | 3.15 | 3.11  |  |  |  |
| 150               | 2.55 | 2.54 | 2.52 | 2.53 | 2.45 | 2.40  | 2.40 | 2.37  | 2.36 | 2.37  | 2.40 | 2.40  | 2.45 | 2.53  | 2.52 | 2.54  |  |  |  |
| 155               | 2.24 | 2.51 | 2.51 | 2.27 | 2.22 | 2.20  | 2.10 | 1.75  | 1.63 | 1.75  | 2.10 | 2.20  | 2.22 | 2.27  | 2.51 | 2.51  |  |  |  |
| 160               | 0.74 | 0.81 | 0.85 | 0.76 | 0.73 | 0.76  | 0.69 | 0.59  | 0.52 | 0.59  | 0.69 | 0.76  | 0.73 | 0.76  | 0.85 | 0.81  |  |  |  |
| 165               | 0.18 | 0.25 | 0.24 | 0.21 | 0.09 | 0.05  | 0.05 | 0.04  | 0.04 | 0.04  | 0.05 | 0.05  | 0.09 | 0.21  | 0.24 | 0.25  |  |  |  |
| 170               | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02  | 0.02 | 0.01  | 0.02 | 0.01  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  |  |  |  |
| 175               | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  |  |  |  |
| 180               | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  |  |  |  |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

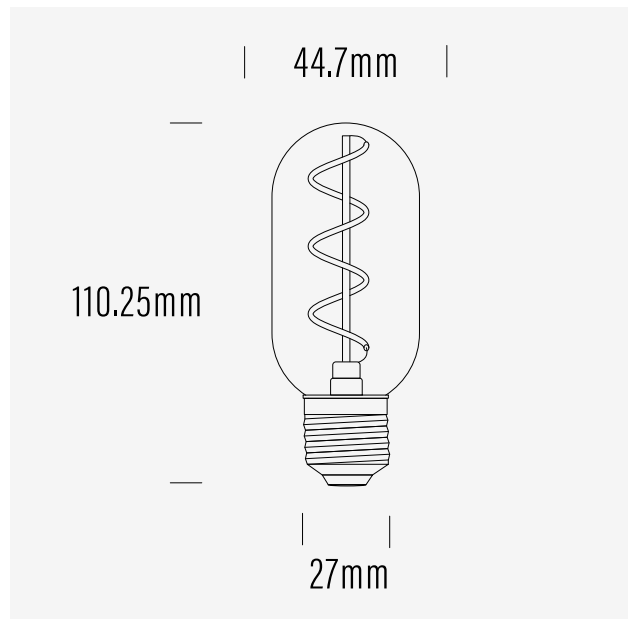
γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2200K  
 2W / 2200K  
 24V DC

# AGL G Series

E27 LED Globes



## AQF-G-005-2700K / 2700K / E27



### Product Data

|              |                                  |
|--------------|----------------------------------|
| Product Code | AQF-G-005-2700K                  |
| Description  | Aqualux G Series LED Lamp        |
| Type         | E27                              |
| Construction | PET Shell + LED + Aluminium Base |
| Warranty     | 3 Years                          |

### Electrical Data

|                                |                     |   |              |       |
|--------------------------------|---------------------|---|--------------|-------|
| Input Voltage Range            | 24V AC/DC           |   |              |       |
| Nominal Voltage                | 24VDC               |   |              |       |
| Nominal Power                  | 2W                  |   |              |       |
| Nominal Current                | 83mA                |   |              |       |
| Input Voltage                  | -                   | - | <b>24VDC</b> | 24VAC |
| Rated Power                    | -                   | - | <b>0.5</b>   | 1.5   |
| Operating Frequency            | -                   | - | -            | 50Hz  |
| Max. no. of lamps on AQD24-040 | -                   | - | -            | -     |
| Max. no. of lamps on AQD24-100 | -                   | - | -            | -     |
| Max. no. of lamps on AQD24-240 | -                   | - | -            | -     |
| Dimming Compatibility          | PWM (PSU dependant) |   |              |       |
| Wiring Scheme                  | Parallel            |   |              |       |
| Startup Time                   | < 0.5s              |   |              |       |

### Mechanical & Thermal Data

|                      |            |
|----------------------|------------|
| Overall Length       | 110.25mm   |
| Max Diameter         | 44.7mm     |
| Lamp Base            | E27        |
| Weight               | 18g        |
| Operating Temp Range | -20° - 60° |
| IP Rating            | IP20       |

### Photometric Data

|                   |     |   |                    |
|-------------------|-----|---|--------------------|
| Nominal Flux (lm) | 104 |   |                    |
| Input Voltage     | -   | - | <b>24VDC</b> 24VAC |
| Input Power (W)   | -   | - | <b>0.5</b> 1.5     |
| Rated Flux (lm)   | -   | - | <b>49</b> 112      |
| Efficacy (lm/W)   | -   | - | <b>108</b> 75      |

|                            |            |
|----------------------------|------------|
| CCT                        | 2700K      |
| CCT Description            | Warm White |
| CRI (Ra)                   | 92         |
| CRI (R9)                   | 60         |
| TM-30 (Rf)                 | 91         |
| TM-30 (Rg)                 | 95         |
| SDCM                       | -          |
| Peak Intensity (cd)        | 4.3        |
| Nominal Beam Angle         | -          |
| Measured Beam Angle (FWHM) | 313°       |

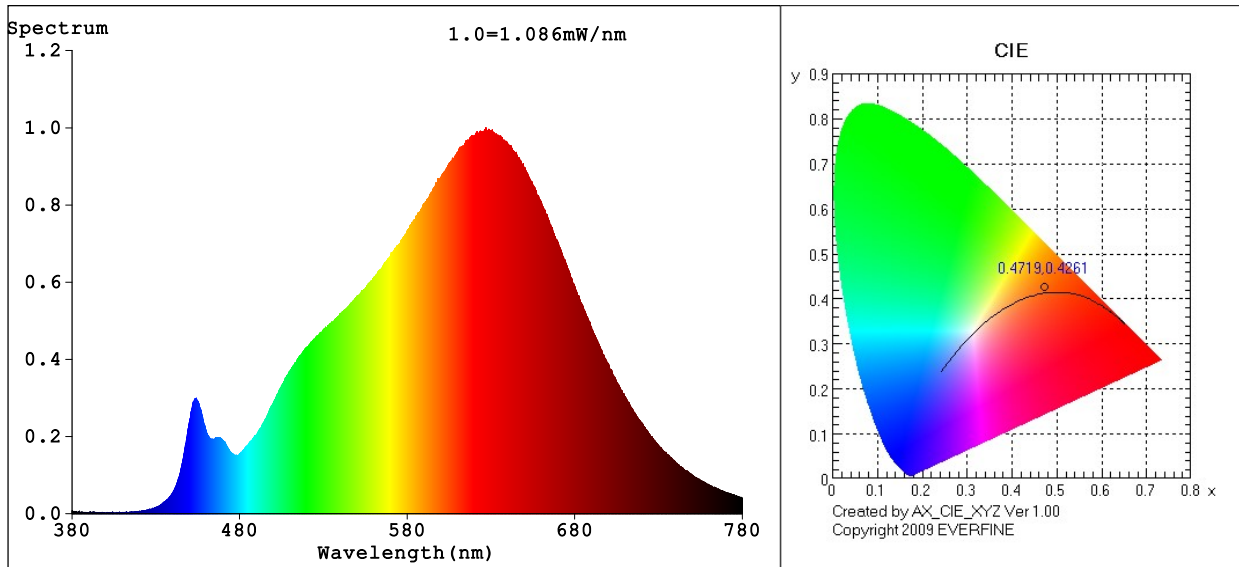
### Lifespan Data

|                  |          |
|------------------|----------|
| L70              | 100,000h |
| Switching Cycles | 100,000  |

### Compliance Data

|                 |     |
|-----------------|-----|
| EMI             | Yes |
| RCM             | N/A |
| Mercury Content | 0mg |

### Spectrum Test Report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4719$   $y=0.4261$  /  $u'=0.2632$   $v'=0.5349$   
 CCT=2656K (Duv=0.0046) Dominant WL:Ld =583.1nm WL:Lc = --nm Purity=69.6%  
 Ratio:R=26.4% G=71.5% B=2.1%; Peak WL:Lp=626.9nm FWHM=152.4nm  
 Render Index:Ra=92.4 AvgR=89.1 TM30:Rf=91 Rg=95

R1 =92 R2 =95 R3 =97 R4 =93 R5 =91 R6 =95 R7 =94  
 R8 =83 R9 =60 R10=88 R11=94 R12=78 R13=93 R14=98 R15=87

**Photo Parameters:**

Flux = 49.25 lm Eff. : 107.50 lm/W Fe = 176.2 mW

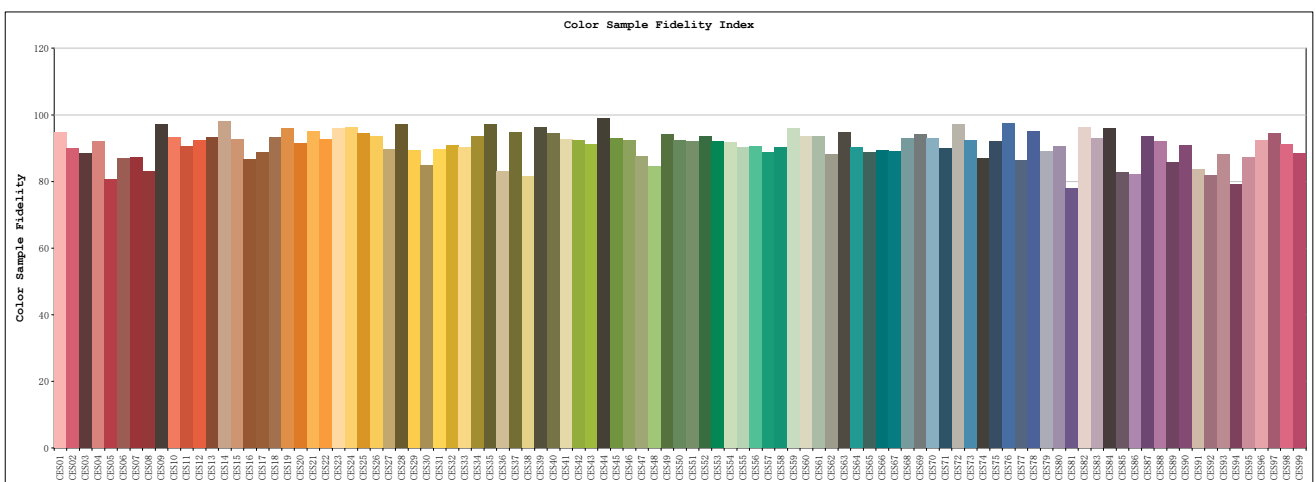
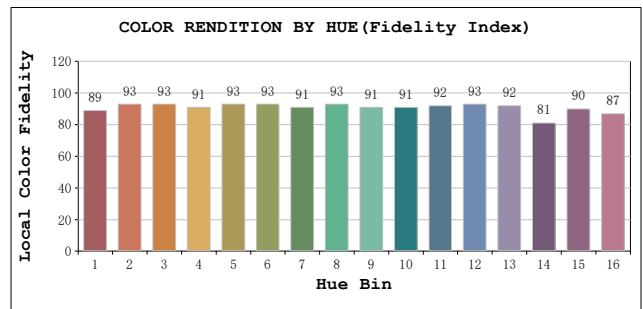
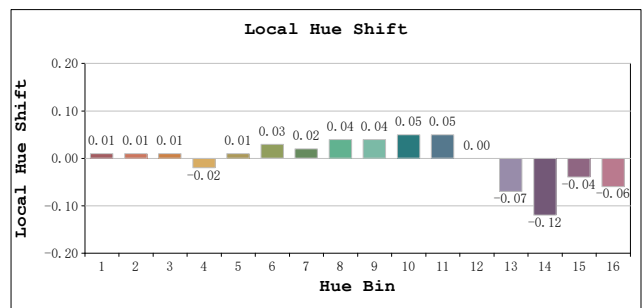
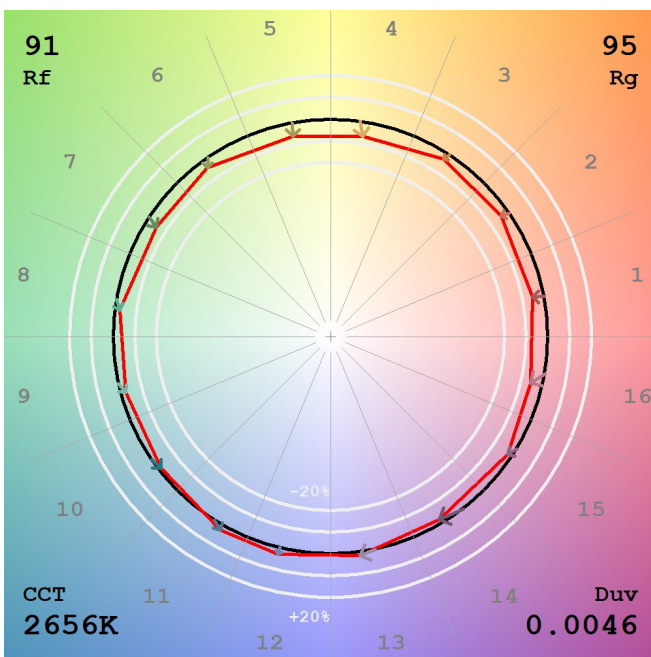
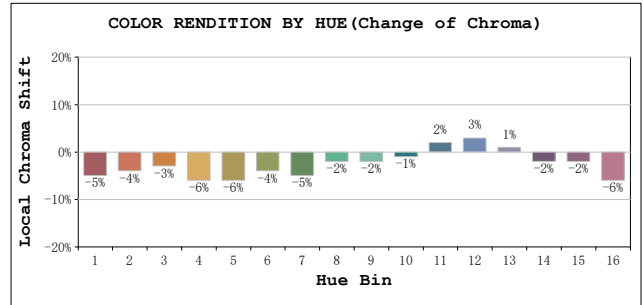
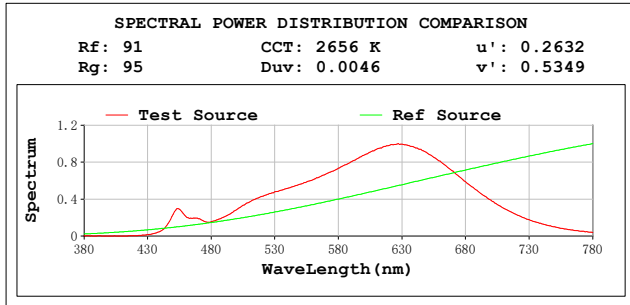
**Electrical parameters:**

V = 24.004 V I = 0.01908 A P = 0.4581 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_2700K  
 Status: Integral T = 2891 ms Ip = 49020 (75%)

**GBT5702**

# TM30

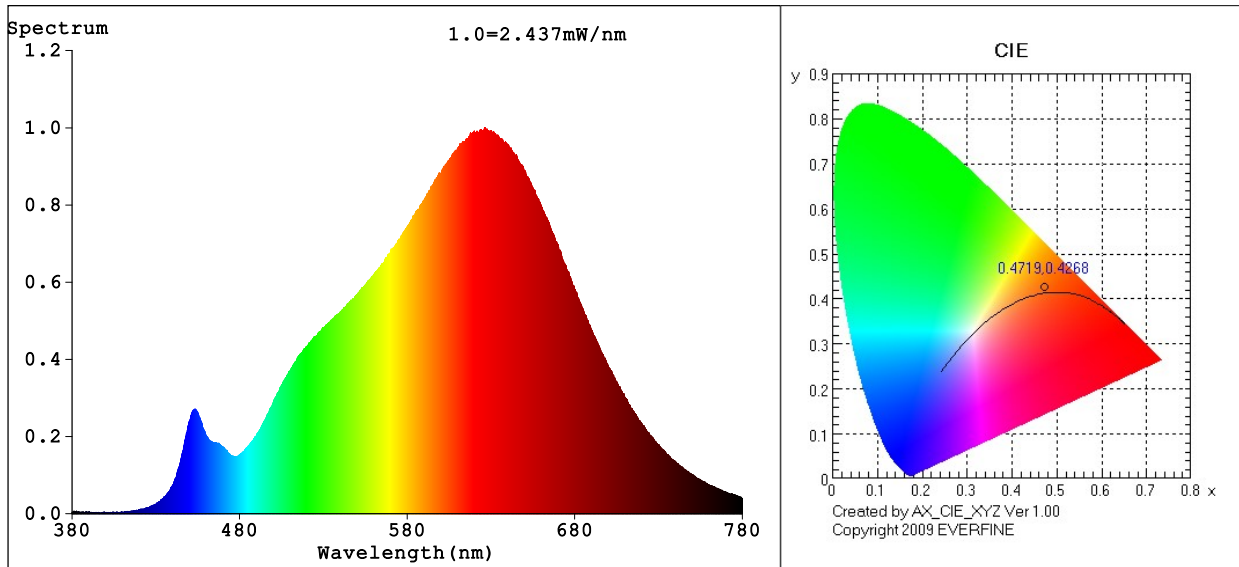
View Angle: 2 Deg



Model: AQF-G-005-2700K  
 Tester: EC  
 Temperature: 25.3Deg  
 Manufacturer: AQUALUX

Number: AQF-G-005-2700K 24V DC  
 Date: 2023-10-23 17:09:32  
 Humidity: 65.0%  
 Remarks: 24VDC

### Spectrum Test Report



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4719$   $y=0.4268$  /  $u'=0.2630$   $v'=0.5351$   
 CCT=2660K (Duv=0.0049) Dominant WL:Ld =583.0nm WL:Lc = --nm Purity=69.8%  
 Ratio:R=26.3% G=71.6% B=2.1%; Peak WL:Lp=626.5nm FWHM=153.7nm  
 Render Index:Ra=91.7 AvgR=88.2 TM30:Rf=91 Rg=95

R1 =91 R2 =94 R3 =97 R4 =92 R5 =90 R6 =94 R7 =94  
 R8 =82 R9 =57 R10=86 R11=93 R12=78 R13=92 R14=97 R15=86

**Photo Parameters:**

Flux = 111.6 lm Eff. : 75.47 lm/W Fe = 396.7 mW

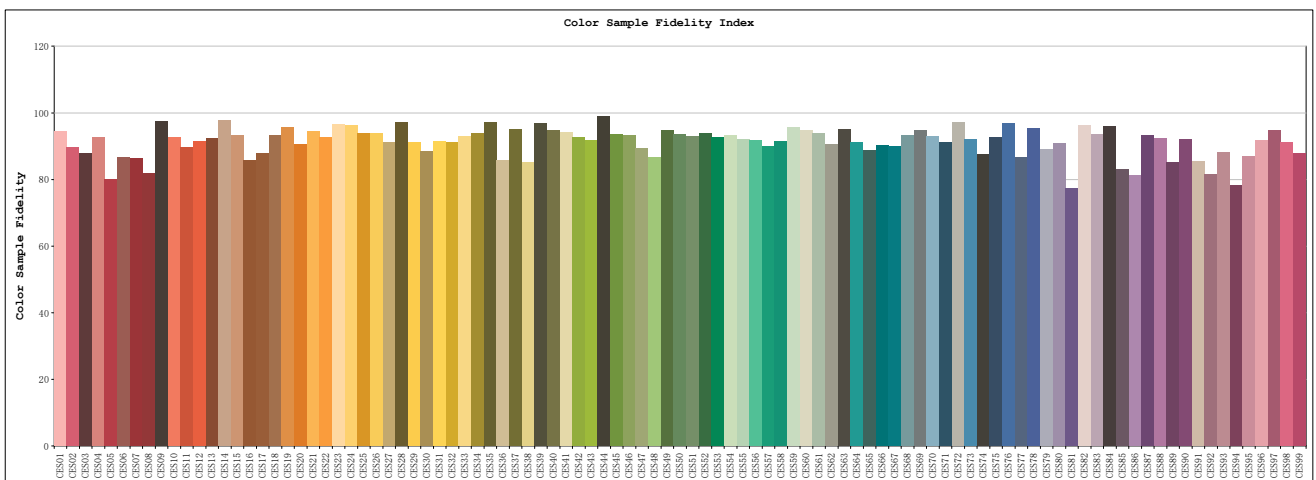
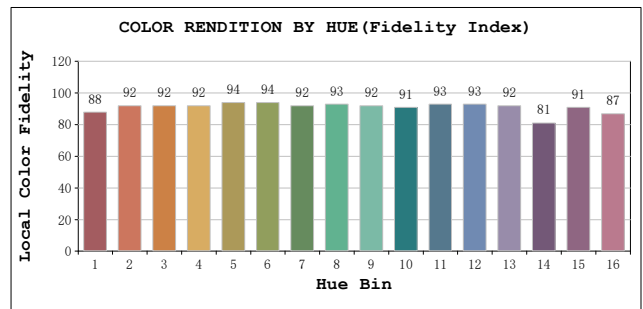
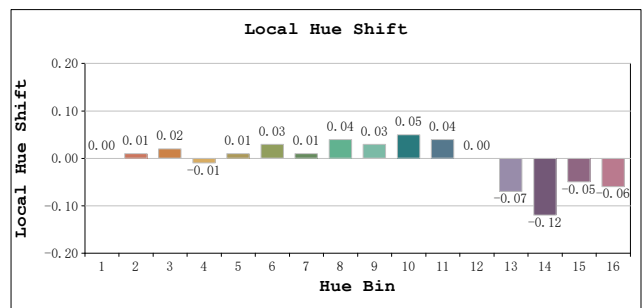
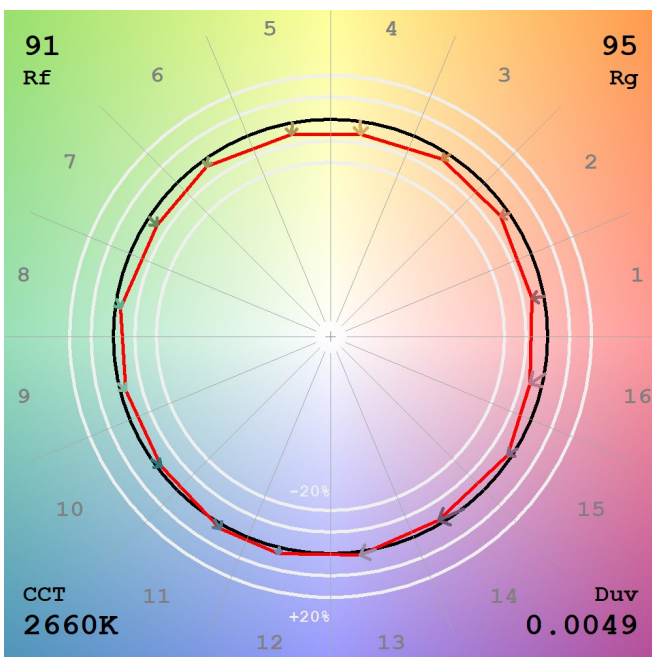
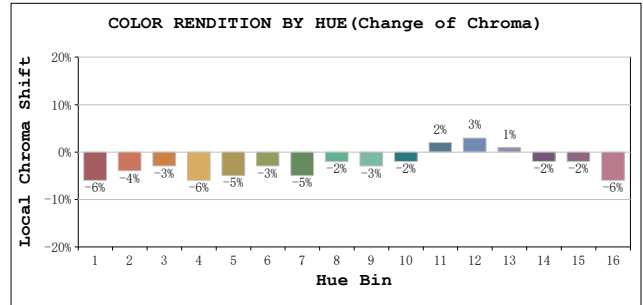
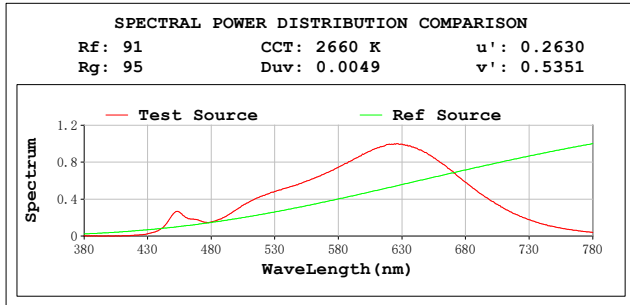
**Electrical parameters:**

V = 23.994 V I = 0.06961 A P = 1.479 W PF = 0.8856  
 LEVEL:OUT WHITE:ANSI\_2700K  
 Status: Integral T = 1000 ms Ip = 38506 (59%)

**GBT5702**

# TM30

View Angle: 2 Deg



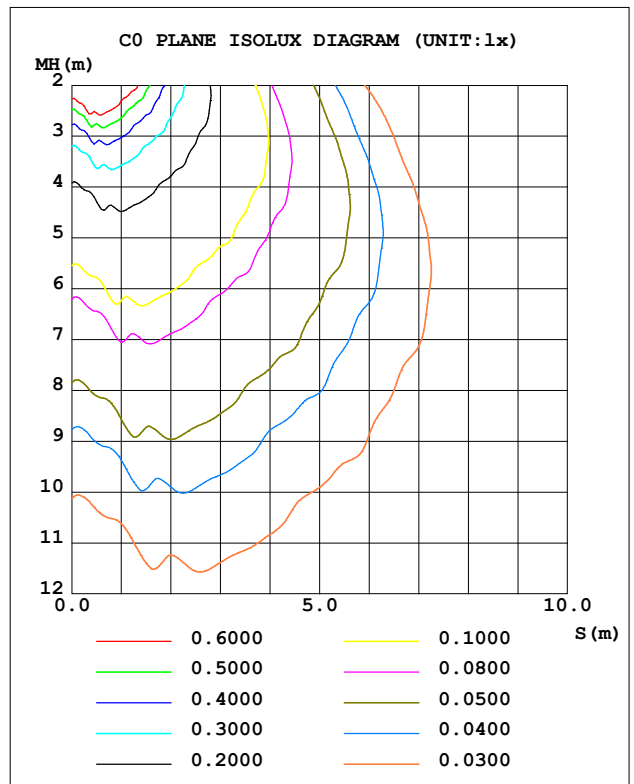
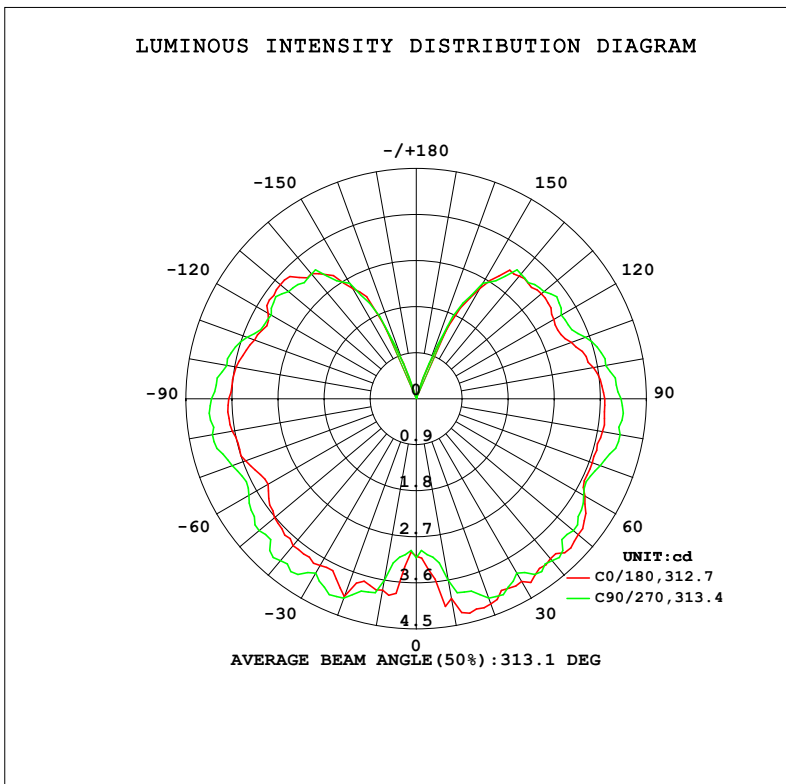
Model:AQF-G-005-2700K  
 Tester:EC  
 Temperature:25.3Deg  
 Manufacturer:AQUALUX

Number:AQF-G-005-2700K 24V AC  
 Date:2023-10-23 17:11:01  
 Humidity:65.0%  
 Remarks:24VAC

LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA      |         |                     | Eff: 90.47 lm/W |
|-------------------|---------|-----------------------|---------|---------------------|-----------------|
| MODEL             |         | I <sub>max</sub> (cd) | 4.319   | S/MH (C0/180)       | 1.77            |
| NOMINAL POWER (W) | 2       | LOR (%)               | 100.0   | S/MH (C90/270)      | 1.92            |
| RATED VOLTAGE (V) | 24      | TOTAL FLUX (lm)       | 43.584  | η UP, DN (C0-180)   | 22.2, 27.9      |
| NOMINAL FLUX (lm) | 43.5845 | CIE CLASS             | DIFFUSE | η UP, DN (C180-360) | 22.3, 27.6      |
| LAMPS INSIDE      | 1       | η up (%)              | 44.5    | CIBSE SHR NOM       | 1.75            |
| TEST VOLTAGE (V)  | 24      | η down (%)            | 55.5    | CIBSE SHR MAX       | 1.75            |



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC



**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

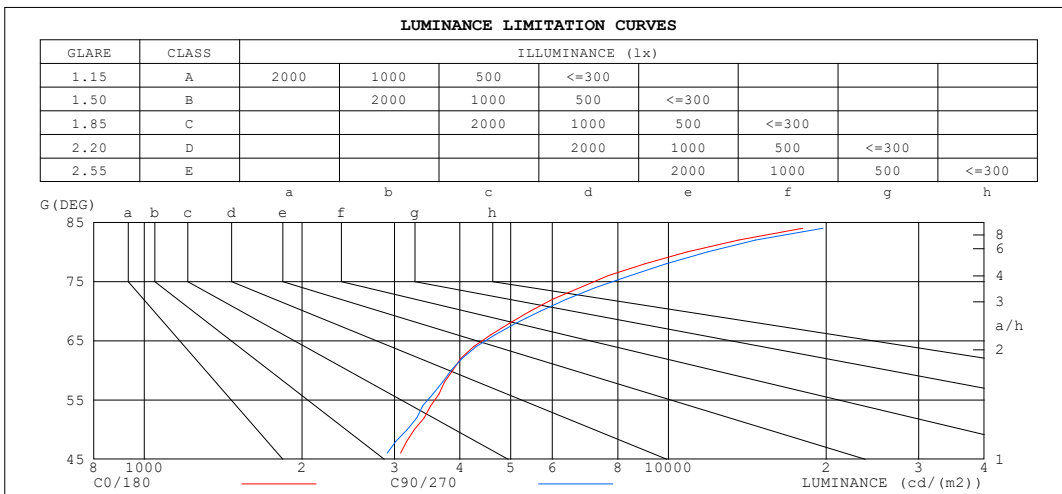
| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\phi$ zone | $\phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 3.961                 | 3.734  | 3.596  | 3.747  | 3.797  | 3.747  | 3.596  | 3.734  | 0- 10    | 0.3289      | 0.3289       | 0.75,0.75  |
| 20       | 4.264                 | 4.181  | 4.149  | 3.970  | 4.117  | 3.970  | 4.149  | 4.181  | 10- 20   | 1.124       | 1.453        | 3.33,3.33  |
| 30       | 4.123                 | 4.095  | 3.936  | 3.803  | 3.760  | 3.803  | 3.936  | 4.095  | 20- 30   | 1.869       | 3.321        | 7.62,7.62  |
| 40       | 4.082                 | 4.216  | 4.132  | 3.914  | 3.749  | 3.914  | 4.132  | 4.216  | 30- 40   | 2.528       | 5.850        | 13.4,13.4  |
| 50       | 4.134                 | 4.181  | 4.008  | 3.603  | 3.616  | 3.603  | 4.008  | 4.181  | 40- 50   | 3.085       | 8.934        | 20.5,20.5  |
| 60       | 3.805                 | 3.923  | 3.778  | 3.433  | 3.345  | 3.433  | 3.778  | 3.923  | 50- 60   | 3.423       | 12.36        | 28.4,28.4  |
| 70       | 3.659                 | 3.970  | 3.825  | 3.461  | 3.551  | 3.461  | 3.825  | 3.970  | 60- 70   | 3.602       | 15.96        | 36.6,36.6  |
| 80       | 3.695                 | 4.042  | 4.045  | 3.612  | 3.652  | 3.612  | 4.045  | 4.042  | 70- 80   | 4.011       | 19.97        | 45.8,45.8  |
| 90       | 3.686                 | 4.120  | 4.004  | 3.623  | 3.665  | 3.623  | 4.004  | 4.120  | 80- 90   | 4.212       | 24.18        | 55.5,55.5  |
| 100      | 3.516                 | 3.881  | 3.762  | 3.510  | 3.574  | 3.510  | 3.762  | 3.881  | 90-100   | 4.128       | 28.31        | 65,65      |
| 110      | 3.232                 | 3.580  | 3.523  | 3.247  | 3.363  | 3.247  | 3.523  | 3.580  | 100-110  | 3.780       | 32.09        | 73.6,73.6  |
| 120      | 3.107                 | 3.351  | 3.275  | 3.115  | 3.342  | 3.115  | 3.275  | 3.351  | 110-120  | 3.278       | 35.37        | 81.2,81.2  |
| 130      | 3.193                 | 3.274  | 3.258  | 3.200  | 3.470  | 3.200  | 3.258  | 3.274  | 120-130  | 2.958       | 38.33        | 87.9,87.9  |
| 140      | 3.132                 | 3.235  | 3.183  | 3.040  | 3.192  | 3.040  | 3.183  | 3.235  | 130-140  | 2.492       | 40.82        | 93.7,93.7  |
| 150      | 2.494                 | 2.706  | 2.607  | 2.467  | 2.493  | 2.467  | 2.607  | 2.706  | 140-150  | 1.849       | 42.67        | 97.9,97.9  |
| 160      | 0.6274                | 0.7228 | 0.7374 | 0.7986 | 0.7447 | 0.7986 | 0.7374 | 0.7228 | 150-160  | 0.8520      | 43.52        | 99.9,99.9  |
| 170      | 0.0254                | 0.0258 | 0.0270 | 0.0282 | 0.0246 | 0.0282 | 0.0270 | 0.0258 | 160-170  | 0.0620      | 43.58        | 100,100    |
| 180      | 0.0274                | 0.0258 | 0.0282 | 0.0262 | 0.0262 | 0.0262 | 0.0282 | 0.0258 | 170-180  | 0.0023      | 43.58        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**LUMINANCE LIMITATION CURVES**

|   |                        |                         |
|---|------------------------|-------------------------|
| <b>Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz</b><br><b>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm</b> |                        |                         |
| <b>NAME: AQF-G-005-2700K</b>  | <b>TYPE: E27 GLOBE</b> | <b>WEIGHT:</b>          |
| <b>SPEC.:</b>   | <b>DIM.:</b>           | <b>SERIAL No.: -</b>    |
| <b>MFR.: AQUALUX</b>  | <b>SUR.:</b>           | <b>Shielding Angle:</b> |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 21629  | 23639   |
| 80                | 10839  | 11867   |
| 75                | 7227   | 7741    |
| 70                | 5450   | 5698    |
| 65                | 4407   | 4455    |
| 60                | 3877   | 3849    |
| 55                | 3605   | 3478    |
| 50                | 3276   | 3176    |
| 45                | 3013   | 2970    |

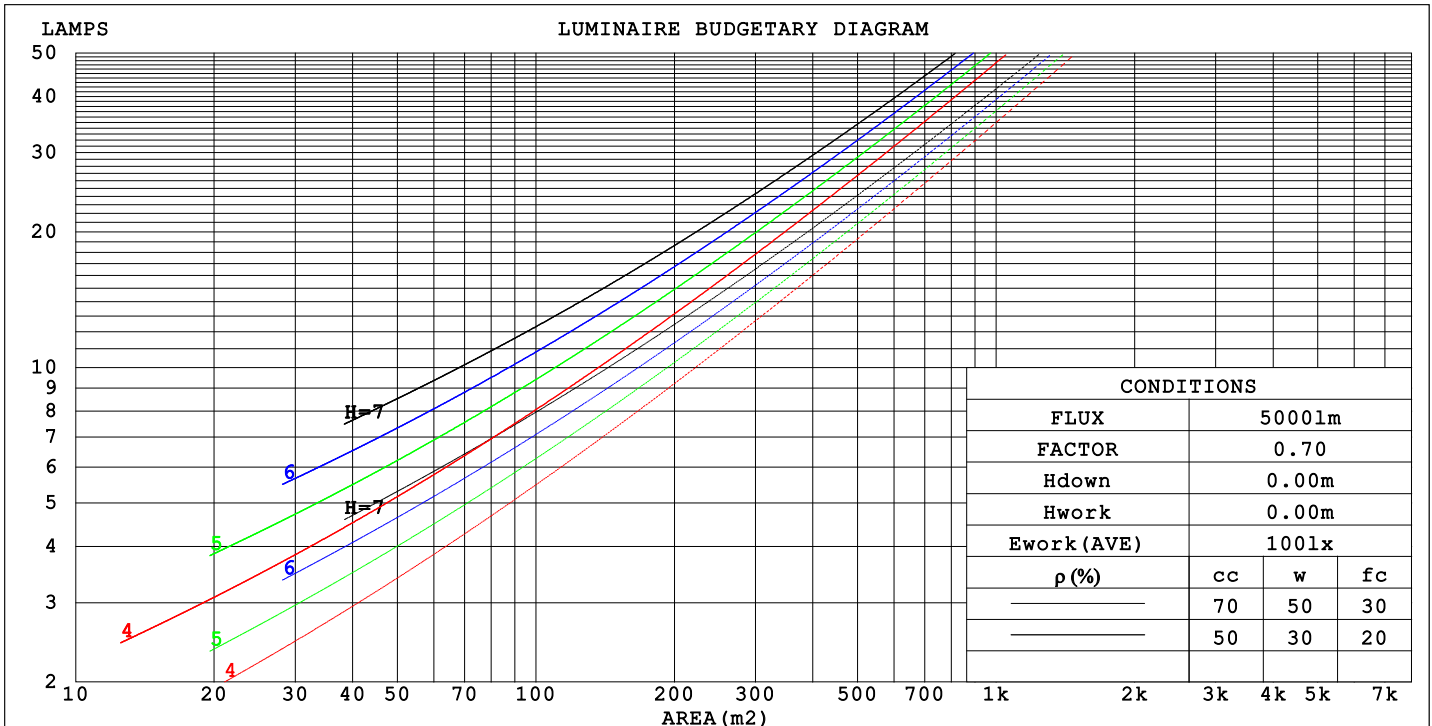
C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                              |     |     | 30% |     |     | 10% |     |     | 0   |  |  |
|------|-----------------------|------|------|------|------|------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|      | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |     |  |  |
| ρw   |                       |      |      |      |      |      |                                  |     |     |     |     |     |     |     |     |     |  |  |
| ρfc  |                       |      |      |      |      |      |                                  |     |     |     |     |     |     |     |     |     |  |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization (CU) |     |     |     |     |     |     |     |     |     |  |  |
| 0.0  | 1.08                  | 1.08 | 1.08 | 1.01 | 1.01 | 1.01 | .86                              | .86 | .86 | .73 | .73 | .73 | .61 | .61 | .61 | .55 |  |  |
| 1.0  | .88                   | .82  | .77  | .81  | .76  | .72  | .69                              | .65 | .61 | .57 | .54 | .52 | .47 | .45 | .42 | .37 |  |  |
| 2.0  | .75                   | .67  | .60  | .69  | .62  | .56  | .58                              | .52 | .48 | .48 | .44 | .40 | .39 | .35 | .33 | .28 |  |  |
| 3.0  | .64                   | .55  | .48  | .59  | .51  | .45  | .50                              | .43 | .38 | .41 | .36 | .32 | .33 | .29 | .26 | .22 |  |  |
| 4.0  | .56                   | .47  | .39  | .52  | .43  | .37  | .44                              | .37 | .32 | .36 | .31 | .26 | .29 | .25 | .21 | .18 |  |  |
| 5.0  | .49                   | .40  | .33  | .46  | .37  | .31  | .39                              | .32 | .27 | .32 | .26 | .22 | .26 | .21 | .18 | .15 |  |  |
| 6.0  | .44                   | .35  | .28  | .41  | .32  | .26  | .34                              | .28 | .23 | .29 | .23 | .19 | .23 | .19 | .15 | .12 |  |  |
| 7.0  | .40                   | .31  | .24  | .37  | .29  | .23  | .31                              | .24 | .20 | .26 | .20 | .16 | .21 | .17 | .13 | .11 |  |  |
| 8.0  | .36                   | .27  | .21  | .33  | .25  | .20  | .28                              | .22 | .17 | .23 | .18 | .14 | .19 | .15 | .12 | .09 |  |  |
| 9.0  | .32                   | .24  | .19  | .30  | .23  | .18  | .26                              | .19 | .15 | .21 | .16 | .13 | .18 | .13 | .10 | .08 |  |  |
| 10.0 | .30                   | .22  | .17  | .28  | .20  | .16  | .24                              | .18 | .13 | .20 | .15 | .11 | .16 | .12 | .09 | .07 |  |  |



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**WEC AND CCEC**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

| ρcc  | 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 |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |
| 1.0  | .408                  | .232 | .074 | .388 | .221 | .070 | .349                             | .200 | .064 | .313 | .180 | .058 | .280 | .162 | .052 |   |
| 2.0  | .341                  | .187 | .057 | .322 | .177 | .055 | .287                             | .159 | .049 | .254 | .142 | .045 | .224 | .126 | .040 |   |
| 3.0  | .298                  | .158 | .047 | .280 | .150 | .045 | .248                             | .134 | .041 | .218 | .119 | .037 | .190 | .105 | .033 |   |
| 4.0  | .265                  | .138 | .041 | .249 | .131 | .039 | .220                             | .116 | .035 | .192 | .103 | .031 | .166 | .090 | .028 |   |
| 5.0  | .239                  | .122 | .035 | .225 | .116 | .034 | .198                             | .103 | .030 | .172 | .091 | .027 | .148 | .079 | .024 |   |
| 6.0  | .218                  | .109 | .031 | .205 | .104 | .030 | .180                             | .092 | .027 | .156 | .081 | .024 | .134 | .071 | .021 |   |
| 7.0  | .201                  | .099 | .028 | .189 | .094 | .027 | .165                             | .084 | .024 | .143 | .074 | .021 | .123 | .064 | .019 |   |
| 8.0  | .186                  | .091 | .026 | .174 | .086 | .024 | .153                             | .076 | .022 | .132 | .067 | .019 | .113 | .058 | .017 |   |
| 9.0  | .173                  | .084 | .023 | .162 | .079 | .022 | .142                             | .070 | .020 | .123 | .062 | .018 | .105 | .053 | .015 |   |
| 10.0 | .161                  | .077 | .021 | .152 | .073 | .020 | .133                             | .065 | .018 | .115 | .057 | .016 | .098 | .049 | .014 |   |

| ρcc  | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .530                  | .530 | .530 | .453 | .453 | .453 | .309  | .309 | .309 | .177 | .177 | .177 | .057 | .057 | .057 |   |
| 1.0  | .529                  | .497 | .469 | .453 | .427 | .403 | .310  | .294 | .279 | .178 | .170 | .162 | .057 | .055 | .052 |   |
| 2.0  | .523                  | .476 | .436 | .448 | .410 | .377 | .307  | .283 | .263 | .177 | .165 | .154 | .057 | .053 | .050 |   |
| 3.0  | .516                  | .461 | .416 | .442 | .397 | .361 | .304  | .276 | .253 | .175 | .161 | .149 | .056 | .052 | .049 |   |
| 4.0  | .508                  | .449 | .404 | .436 | .388 | .351 | .300  | .270 | .247 | .174 | .158 | .146 | .056 | .052 | .048 |   |
| 5.0  | .501                  | .440 | .395 | .430 | .381 | .343 | .296  | .266 | .242 | .172 | .156 | .144 | .055 | .051 | .047 |   |
| 6.0  | .494                  | .432 | .388 | .424 | .374 | .338 | .293  | .262 | .239 | .170 | .154 | .142 | .055 | .050 | .047 |   |
| 7.0  | .487                  | .426 | .384 | .419 | .369 | .334 | .289  | .259 | .237 | .168 | .153 | .141 | .054 | .050 | .047 |   |
| 8.0  | .480                  | .421 | .380 | .414 | .365 | .331 | .286  | .256 | .235 | .166 | .151 | .140 | .054 | .050 | .046 |   |
| 9.0  | .474                  | .416 | .377 | .409 | .361 | .329 | .283  | .254 | .234 | .165 | .150 | .139 | .053 | .049 | .046 |   |
| 10.0 | .469                  | .413 | .375 | .404 | .358 | .327 | .280  | .252 | .233 | .163 | .149 | .139 | .053 | .049 | .046 |   |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**UGR(Unified Glare Rating) Table**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | 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 | 25.3             | 26.5 | 26.2 | 27.3 | 28.4 | 25.3           | 26.5 | 26.1 | 27.3 | 28.3 |
|                 | 3H     | 28.3             | 29.3 | 29.1 | 30.2 | 31.2 | 28.4           | 29.4 | 29.2 | 30.3 | 31.4 |
|                 | 4H     | 30.0             | 31.0 | 30.9 | 31.9 | 33.0 | 30.3           | 31.3 | 31.2 | 32.2 | 33.3 |
|                 | 6H     | 32.0             | 32.9 | 32.9 | 33.8 | 34.9 | 32.4           | 33.3 | 33.3 | 34.2 | 35.4 |
|                 | 8H     | 33.1             | 34.0 | 34.0 | 34.9 | 36.0 | 33.6           | 34.5 | 34.5 | 35.4 | 36.5 |
|                 | 12H    | 34.4             | 35.3 | 35.3 | 36.2 | 37.3 | 34.9           | 35.8 | 35.8 | 36.7 | 37.8 |
| 4H              | 2H     | 26.3             | 27.2 | 27.1 | 28.1 | 29.2 | 26.3           | 27.2 | 27.1 | 28.1 | 29.2 |
|                 | 3H     | 29.4             | 30.3 | 30.3 | 31.2 | 32.3 | 29.6           | 30.4 | 30.5 | 31.3 | 32.5 |
|                 | 4H     | 31.3             | 32.1 | 32.2 | 33.0 | 34.2 | 31.6           | 32.4 | 32.5 | 33.3 | 34.5 |
|                 | 6H     | 33.5             | 34.2 | 34.4 | 35.1 | 36.3 | 33.9           | 34.6 | 34.8 | 35.5 | 36.7 |
|                 | 8H     | 34.7             | 35.3 | 35.6 | 36.3 | 37.5 | 35.1           | 35.8 | 36.1 | 36.7 | 37.9 |
|                 | 12H    | 36.0             | 36.6 | 37.0 | 37.6 | 38.8 | 36.6           | 37.2 | 37.5 | 38.1 | 39.4 |
| 8H              | 4H     | 32.1             | 32.8 | 33.1 | 33.7 | 34.9 | 32.4           | 33.0 | 33.3 | 34.0 | 35.2 |
|                 | 6H     | 34.5             | 35.1 | 35.5 | 36.1 | 37.3 | 34.9           | 35.5 | 35.9 | 36.4 | 37.7 |
|                 | 8H     | 35.9             | 36.4 | 36.9 | 37.4 | 38.7 | 36.3           | 36.8 | 37.3 | 37.8 | 39.1 |
|                 | 12H    | 37.5             | 37.9 | 38.5 | 38.9 | 40.2 | 38.0           | 38.4 | 39.0 | 39.4 | 40.7 |
| 12H             | 4H     | 32.4             | 33.0 | 33.3 | 33.9 | 35.2 | 32.6           | 33.2 | 33.5 | 34.1 | 35.3 |
|                 | 6H     | 34.9             | 35.4 | 35.9 | 36.4 | 37.6 | 35.2           | 35.7 | 36.2 | 36.7 | 37.9 |
|                 | 8H     | 36.4             | 36.8 | 37.4 | 37.8 | 39.1 | 36.8           | 37.2 | 37.8 | 38.2 | 39.5 |

|   |               |               |
|---|---------------|---------------|
| Variations with the observer position at spacings(CIE Pub.117): |               |               |
| S = 1.0H  | + 0.1 / - 0.1 | + 0.1 / - 0.1 |
| 1.5H  | + 0.2 / - 0.3 | + 0.2 / - 0.3 |
| 2.0H  | + 0.3 / - 0.4 | + 0.3 / - 0.4 |

CIE Pub.117, 43.58 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.9)  
 Area: 0.001963 m2

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**UTILIZATION FACTORS TABLE**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

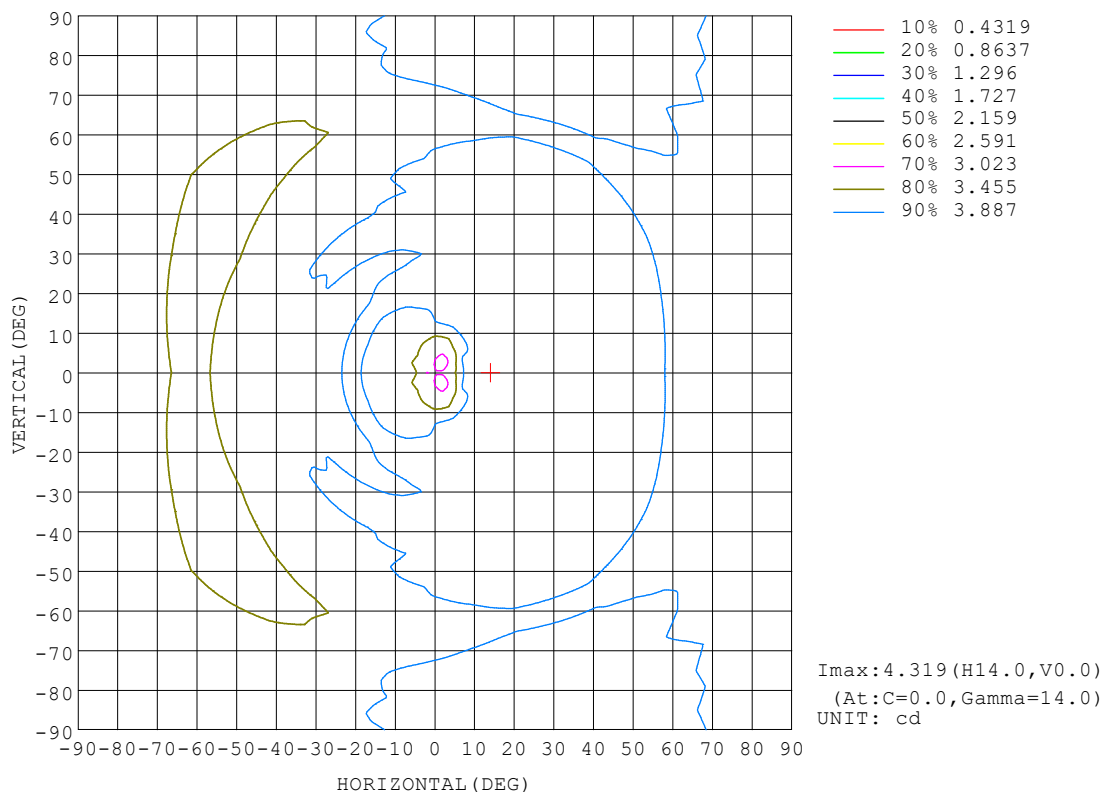
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 38   | 26  | 18        | 36  | 25  | 18  | 33            | 23  | 17  | 10     |
| 0.80                             | 47   | 33  | 25        | 44  | 32  | 24  | 40            | 29  | 22  | 13     |
| 1.00                             | 54   | 40  | 31        | 51  | 38  | 30  | 45            | 36  | 27  | 16     |
| 1.25                             | 61   | 47  | 38        | 57  | 44  | 36  | 50            | 40  | 33  | 20     |
| 1.50                             | 66   | 52  | 43        | 62  | 49  | 41  | 54            | 44  | 37  | 22     |
| 2.00                             | 74   | 61  | 51        | 69  | 57  | 49  | 59            | 50  | 43  | 26     |
| 2.50                             | 78   | 67  | 58        | 73  | 63  | 54  | 63            | 55  | 48  | 29     |
| 3.00                             | 82   | 72  | 63        | 77  | 67  | 59  | 66            | 58  | 52  | 32     |
| 4.00                             | 88   | 78  | 70        | 81  | 73  | 66  | 70            | 63  | 58  | 36     |
| 5.00                             | 91   | 83  | 76        | 84  | 77  | 71  | 72            | 67  | 62  | 38     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

ISOCANDELA DIAGRAM

|   |                 |                  |
|---|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K   | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:  | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX   | SUR.:           | Shielding Angle: |

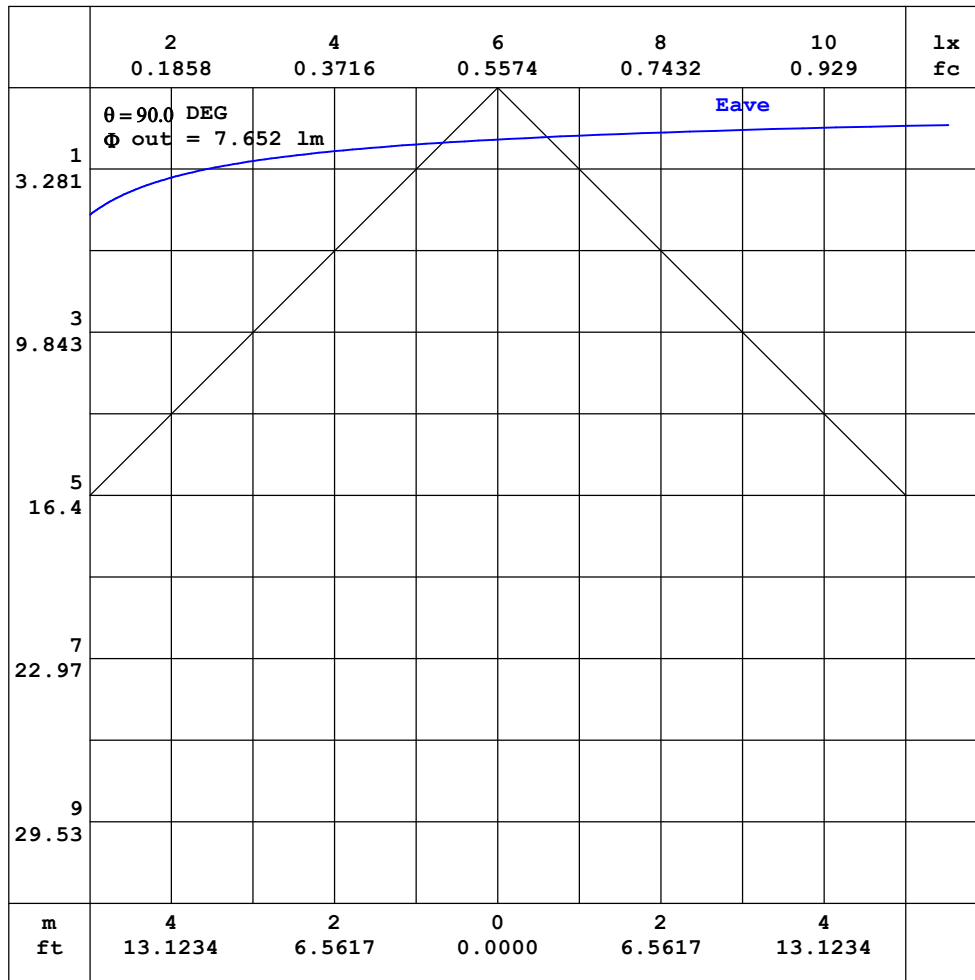


C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

AAI CURVES

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |



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

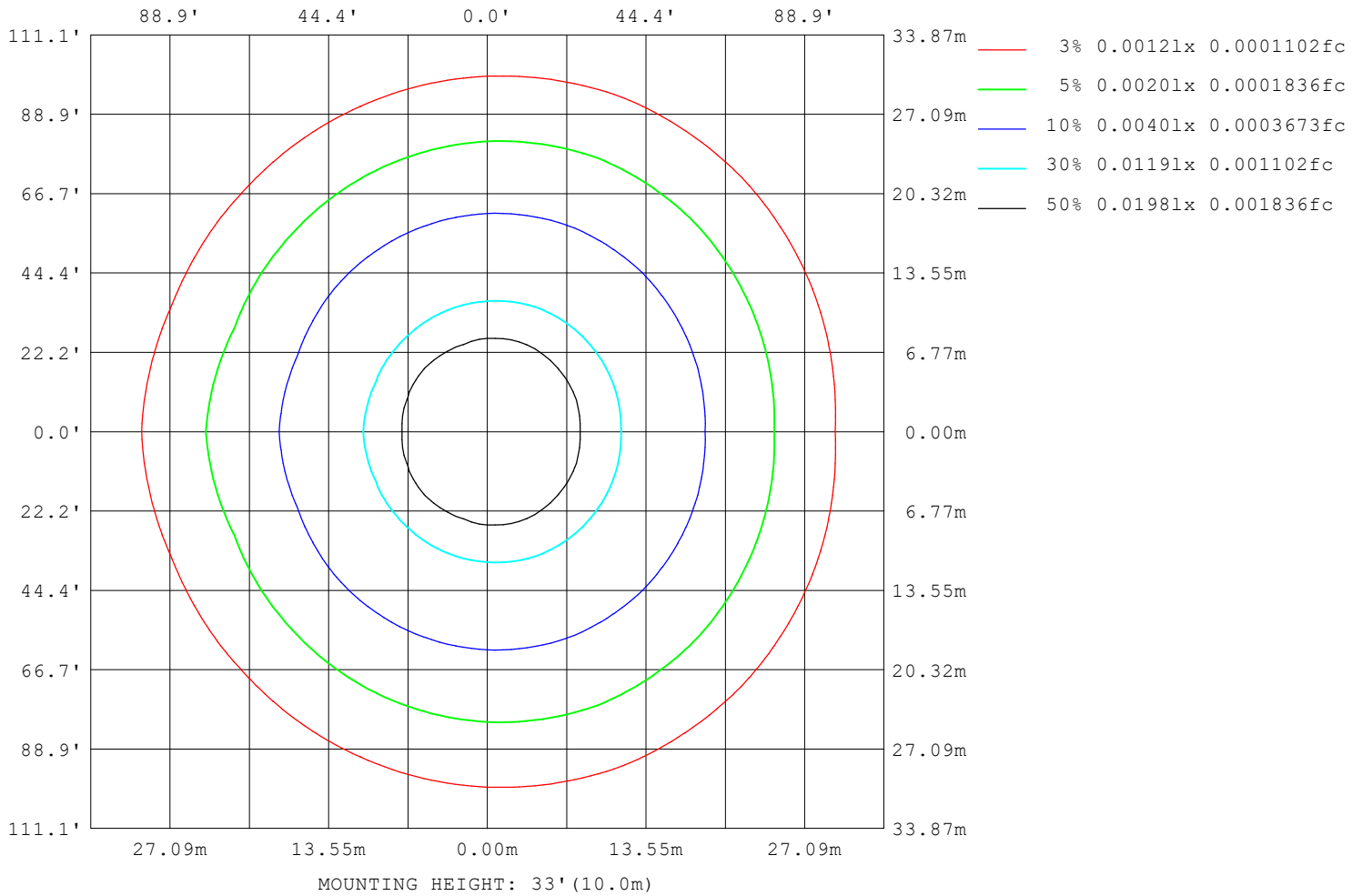
C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operators: ELAINE  
 Test Date: 24 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC



ISOLUX DIAGRAM

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**LED Avg.L Report**

|   |                 |                  |
|---|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K   | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:  | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX   | SUR.:           | Shielding Angle: |

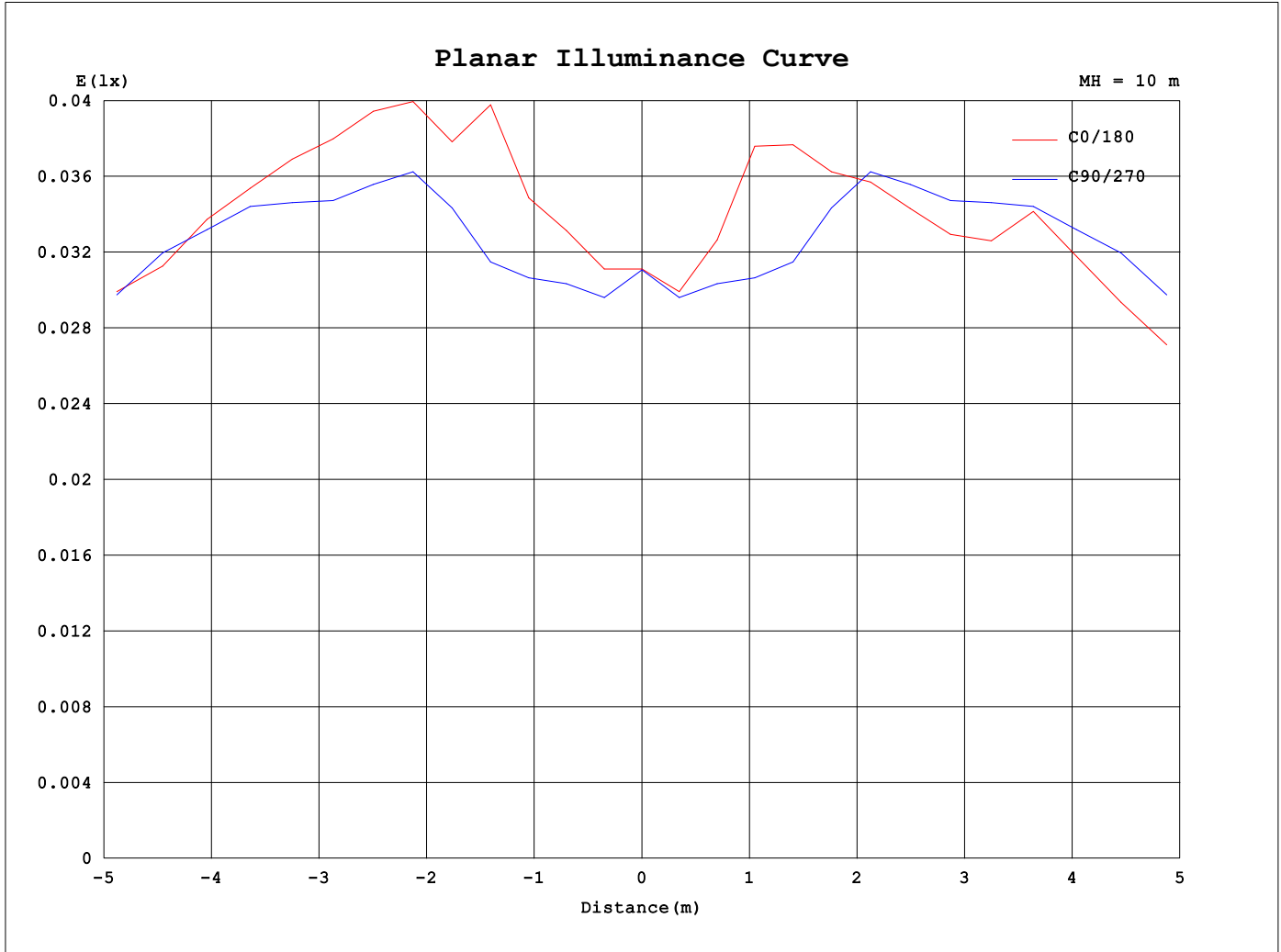
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 4260  |
| L_0~180 (75) av  | 7135  |
| L_0~180 (85) av  | 21574 |
| L_90~270 (65) av | 4467  |
| L_90~270 (75) av | 7824  |
| L_90~270 (85) av | 23703 |
| L_45 (65) av     | 4341  |
| L_45 (75) av     | 7490  |
| L_45 (85) av     | 22614 |

Standard: GB/T 29293-2012

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

Planar Illuminance Curve



C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 20°C  
 Operator: ELAINE  
 Test Date: 24 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 3.100m [K=1.0000]  
 Remarks: AQF-G-005-2700K  
 2W / 2700K  
 24V DC

**LUMINOUS DISTRIBUTION INTENSITY DATA**

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:23.986V I:0.0201A P:0.4817W PF:1.0000 Freq:0Hz  |                 |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:43.5845x1 lm |                 |                  |
| NAME: AQF-G-005-2700K                                  | TYPE: E27 GLOBE | WEIGHT:          |
| SPEC.:   | DIM.:           | SERIAL No.: -    |
| MFR.: AQUALUX  | SUR.:           | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 3.08 | 3.10 | 3.10 | 3.11 | 3.11 | 3.11  | 3.11 | 3.11  | 3.11 | 3.11  | 3.11 | 3.11  | 3.11 | 3.11  | 3.10 | 3.10  |  |  |  |
| 5                  | 3.34 | 3.11 | 2.95 | 2.98 | 3.06 | 3.29  | 3.40 | 3.19  | 3.29 | 3.19  | 3.40 | 3.29  | 3.06 | 2.98  | 2.95 | 3.11  |  |  |  |
| 10                 | 3.96 | 4.04 | 3.73 | 3.54 | 3.60 | 3.82  | 3.75 | 3.61  | 3.80 | 3.61  | 3.75 | 3.82  | 3.60 | 3.54  | 3.73 | 4.04  |  |  |  |
| 15                 | 4.32 | 4.17 | 4.04 | 4.04 | 3.90 | 3.76  | 3.68 | 3.71  | 3.76 | 3.71  | 3.68 | 3.76  | 3.90 | 4.04  | 4.04 | 4.17  |  |  |  |
| 20                 | 4.26 | 4.25 | 4.18 | 4.11 | 4.15 | 4.05  | 3.97 | 4.02  | 4.12 | 4.02  | 3.97 | 4.05  | 4.15 | 4.11  | 4.18 | 4.25  |  |  |  |
| 25                 | 4.10 | 4.12 | 4.21 | 4.20 | 4.19 | 4.04  | 3.88 | 3.80  | 3.85 | 3.80  | 3.88 | 4.04  | 4.19 | 4.20  | 4.21 | 4.12  |  |  |  |
| 30                 | 4.12 | 4.23 | 4.10 | 4.09 | 3.94 | 3.75  | 3.80 | 3.69  | 3.76 | 3.69  | 3.80 | 3.75  | 3.94 | 4.09  | 4.10 | 4.23  |  |  |  |
| 35                 | 4.15 | 4.14 | 4.18 | 4.07 | 4.14 | 4.03  | 3.94 | 3.82  | 3.74 | 3.82  | 3.94 | 4.03  | 4.14 | 4.07  | 4.18 | 4.14  |  |  |  |
| 40                 | 4.08 | 4.18 | 4.22 | 4.25 | 4.13 | 3.99  | 3.91 | 3.85  | 3.75 | 3.85  | 3.91 | 3.99  | 4.13 | 4.25  | 4.22 | 4.18  |  |  |  |
| 45                 | 4.18 | 4.30 | 4.31 | 4.25 | 4.12 | 3.87  | 3.75 | 3.67  | 3.70 | 3.67  | 3.75 | 3.87  | 4.12 | 4.25  | 4.31 | 4.30  |  |  |  |
| 50                 | 4.13 | 4.19 | 4.18 | 4.13 | 4.01 | 3.82  | 3.60 | 3.55  | 3.62 | 3.55  | 3.60 | 3.82  | 4.01 | 4.13  | 4.18 | 4.19  |  |  |  |
| 55                 | 4.06 | 4.15 | 4.12 | 4.05 | 3.92 | 3.73  | 3.56 | 3.49  | 3.54 | 3.49  | 3.56 | 3.73  | 3.92 | 4.05  | 4.12 | 4.15  |  |  |  |
| 60                 | 3.81 | 3.91 | 3.92 | 3.94 | 3.78 | 3.61  | 3.43 | 3.22  | 3.34 | 3.22  | 3.43 | 3.61  | 3.78 | 3.94  | 3.92 | 3.91  |  |  |  |
| 65                 | 3.66 | 3.76 | 3.84 | 3.83 | 3.70 | 3.52  | 3.34 | 3.16  | 3.39 | 3.16  | 3.34 | 3.52  | 3.70 | 3.83  | 3.84 | 3.76  |  |  |  |
| 70                 | 3.66 | 3.81 | 3.97 | 3.98 | 3.83 | 3.62  | 3.46 | 3.40  | 3.55 | 3.40  | 3.46 | 3.62  | 3.83 | 3.98  | 3.97 | 3.81  |  |  |  |
| 75                 | 3.67 | 3.87 | 4.04 | 4.09 | 3.93 | 3.77  | 3.56 | 3.47  | 3.59 | 3.47  | 3.56 | 3.77  | 3.93 | 4.09  | 4.04 | 3.87  |  |  |  |
| 80                 | 3.69 | 3.86 | 4.04 | 4.16 | 4.05 | 3.78  | 3.61 | 3.52  | 3.65 | 3.52  | 3.61 | 3.78  | 4.05 | 4.16  | 4.04 | 3.86  |  |  |  |
| 85                 | 3.70 | 3.88 | 4.09 | 4.22 | 4.04 | 3.82  | 3.62 | 3.53  | 3.68 | 3.53  | 3.62 | 3.82  | 4.04 | 4.22  | 4.09 | 3.88  |  |  |  |
| 90                 | 3.69 | 3.90 | 4.12 | 4.19 | 4.00 | 3.80  | 3.62 | 3.56  | 3.67 | 3.56  | 3.62 | 3.80  | 4.00 | 4.19  | 4.12 | 3.90  |  |  |  |
| 95                 | 3.64 | 3.86 | 4.06 | 4.09 | 3.92 | 3.75  | 3.60 | 3.55  | 3.61 | 3.55  | 3.60 | 3.75  | 3.92 | 4.09  | 4.06 | 3.86  |  |  |  |
| 100                | 3.52 | 3.71 | 3.88 | 3.94 | 3.76 | 3.63  | 3.51 | 3.47  | 3.57 | 3.47  | 3.51 | 3.63  | 3.76 | 3.94  | 3.88 | 3.71  |  |  |  |
| 105                | 3.42 | 3.63 | 3.81 | 3.84 | 3.73 | 3.60  | 3.42 | 3.41  | 3.50 | 3.41  | 3.42 | 3.60  | 3.73 | 3.84  | 3.81 | 3.63  |  |  |  |
| 110                | 3.23 | 3.43 | 3.58 | 3.63 | 3.52 | 3.42  | 3.25 | 3.30  | 3.36 | 3.30  | 3.25 | 3.42  | 3.52 | 3.63  | 3.58 | 3.43  |  |  |  |
| 115                | 3.10 | 3.37 | 3.45 | 3.44 | 3.33 | 3.26  | 3.14 | 3.26  | 3.30 | 3.26  | 3.14 | 3.26  | 3.33 | 3.44  | 3.45 | 3.37  |  |  |  |
| 120                | 3.11 | 3.20 | 3.35 | 3.34 | 3.28 | 3.20  | 3.11 | 3.20  | 3.34 | 3.20  | 3.11 | 3.20  | 3.28 | 3.34  | 3.35 | 3.20  |  |  |  |
| 125                | 3.18 | 3.18 | 3.38 | 3.42 | 3.36 | 3.29  | 3.23 | 3.35  | 3.46 | 3.35  | 3.23 | 3.29  | 3.36 | 3.42  | 3.38 | 3.18  |  |  |  |
| 130                | 3.19 | 3.27 | 3.27 | 3.33 | 3.26 | 3.25  | 3.20 | 3.34  | 3.47 | 3.34  | 3.20 | 3.25  | 3.26 | 3.33  | 3.27 | 3.27  |  |  |  |
| 135                | 3.13 | 3.21 | 3.23 | 3.22 | 3.22 | 3.16  | 3.16 | 3.34  | 3.44 | 3.34  | 3.16 | 3.16  | 3.22 | 3.22  | 3.23 | 3.21  |  |  |  |
| 140                | 3.13 | 3.18 | 3.23 | 3.19 | 3.18 | 3.20  | 3.04 | 3.09  | 3.19 | 3.09  | 3.04 | 3.20  | 3.18 | 3.19  | 3.23 | 3.18  |  |  |  |
| 145                | 3.11 | 3.17 | 3.19 | 3.20 | 2.97 | 2.91  | 2.90 | 2.98  | 3.01 | 2.98  | 2.90 | 2.91  | 2.97 | 3.20  | 3.19 | 3.17  |  |  |  |
| 150                | 2.49 | 2.64 | 2.71 | 2.59 | 2.61 | 2.56  | 2.47 | 2.39  | 2.49 | 2.39  | 2.47 | 2.56  | 2.61 | 2.59  | 2.71 | 2.64  |  |  |  |
| 155                | 1.98 | 1.97 | 2.05 | 2.08 | 2.09 | 2.14  | 2.11 | 2.11  | 2.22 | 2.11  | 2.11 | 2.14  | 2.09 | 2.08  | 2.05 | 1.97  |  |  |  |
| 160                | 0.63 | 0.65 | 0.72 | 0.74 | 0.74 | 0.86  | 0.80 | 0.77  | 0.74 | 0.77  | 0.80 | 0.86  | 0.74 | 0.74  | 0.72 | 0.65  |  |  |  |
| 165                | 0.08 | 0.11 | 0.09 | 0.07 | 0.07 | 0.07  | 0.06 | 0.05  | 0.06 | 0.05  | 0.06 | 0.07  | 0.07 | 0.07  | 0.09 | 0.11  |  |  |  |
| 170                | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02  | 0.03 | 0.02  | 0.02 | 0.02  | 0.03 | 0.02  | 0.03 | 0.03  | 0.03 | 0.03  |  |  |  |
| 175                | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  | 0.02 | 0.02  |  |  |  |
| 180                | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03  | 0.03 | 0.02  | 0.03 | 0.02  | 0.03 | 0.03  | 0.03 | 0.03  | 0.03 | 0.03  |  |  |  |

C Range: 0 - 180DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:20°C  
 Operators:ELAINE  
 Test Date:24 October 2023

γ Range: 0 - 180DEG  
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