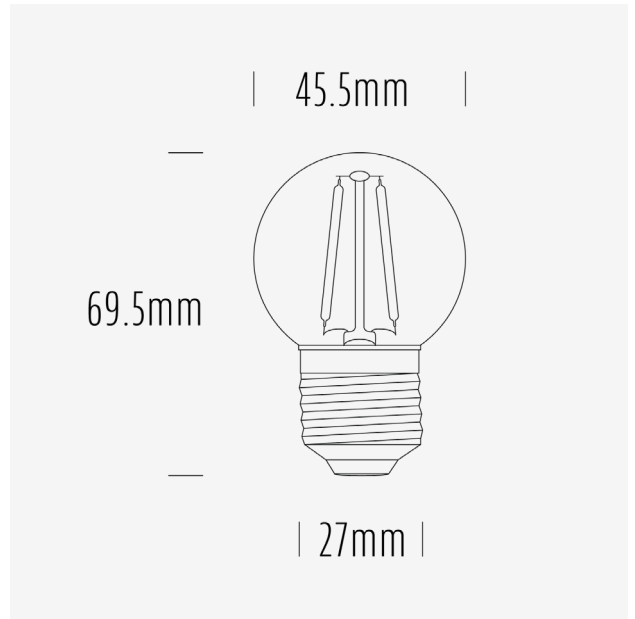


AGL G Series

E27 LED Globes



AQF-G-003-2200K / 2200K / E27



Product Data

| | |
|--------------|----------------------------------|
| Product Code | AQF-G-003-2200K |
| 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 | 1.5W | | | |
| Nominal Current | 63mA | | | |
| Input Voltage | - | - | 24VDC | 24VAC |
| Rated Power | - | - | 0.4 | 1.2 |
| 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 | 69.5mm |
| Max Diameter | 45.5mm |
| Lamp Base | E27 |
| Weight | 14g |
| Operating Temp Range | -20° - 60° |
| IP Rating | IP20 |

Photometric Data

| | | | | |
|----------------------------|------------------|---|--------------|-------|
| Nominal Flux (lm) | 82 | | | |
| Input Voltage | - | - | 24VDC | 24VAC |
| Input Power (W) | - | - | 0.4 | 1.2 |
| Rated Flux (lm) | - | - | 45 | 99 |
| Efficacy (lm/W) | - | - | 121 | 81 |
| CCT | 2200K | | | |
| CCT Description | Ultra Warm White | | | |
| CRI (Ra) | 94 | | | |
| CRI (R9) | 64 | | | |
| TM-30 (Rf) | 92 | | | |
| TM-30 (Rg) | 100 | | | |
| SDCM | - | | | |
| Peak Intensity (cd) | 4.9 | | | |
| Nominal Beam Angle | - | | | |
| Measured Beam Angle (FWHM) | 311° | | | |

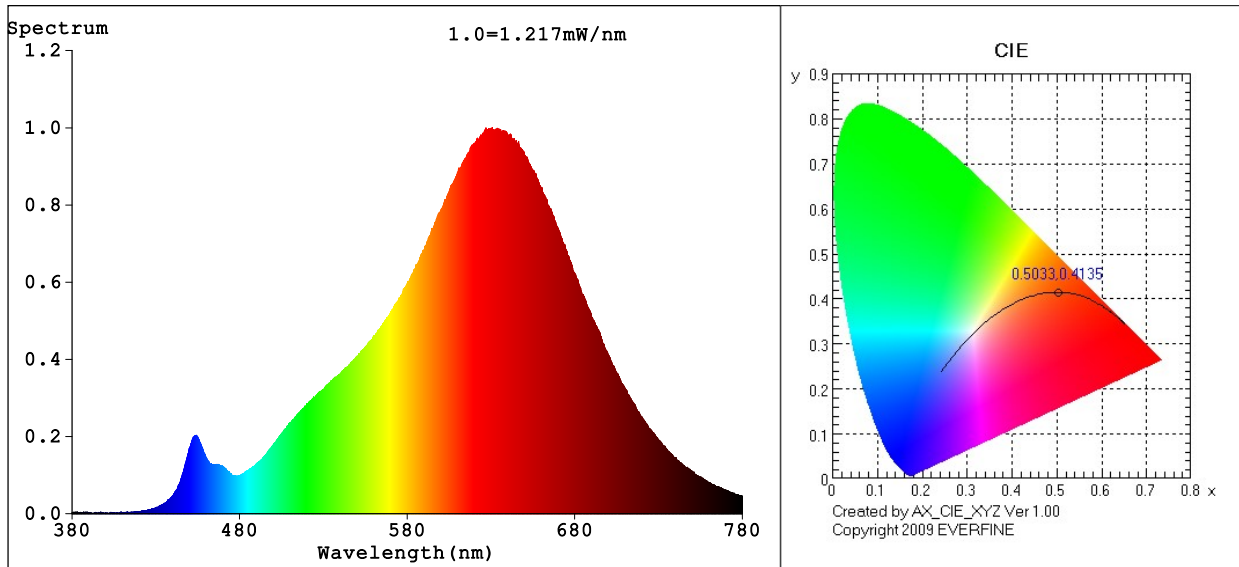
Lifespan Data

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

Compliance Data

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

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.5033$ $y=0.4135$ $u'=0.2894$ $v'=0.5351$
 CCT=2211K (Duv=-0.0006) Dominant WL:Ld =587.3nm WL:Lc = --nm Purity=75.2%
 Ratio:R=31.6% G=66.7% B=1.7%; Peak WL:Lp=630.8nm FWHM=124.5nm
 Render Index:Ra=93.9 AvgR=92.1 TM30:Rf=92 Rg=100

R1 =95 R2 =98 R3 =99 R4 =94 R5 =95 R6 =98 R7 =91
 R8 =82 R9 =64 R10=95 R11=96 R12=90 R13=96 R14=99 R15=90

Photo Parameters:

Flux = 44.79 lm Eff. : 121.39 lm/W Fe = 177.9 mW

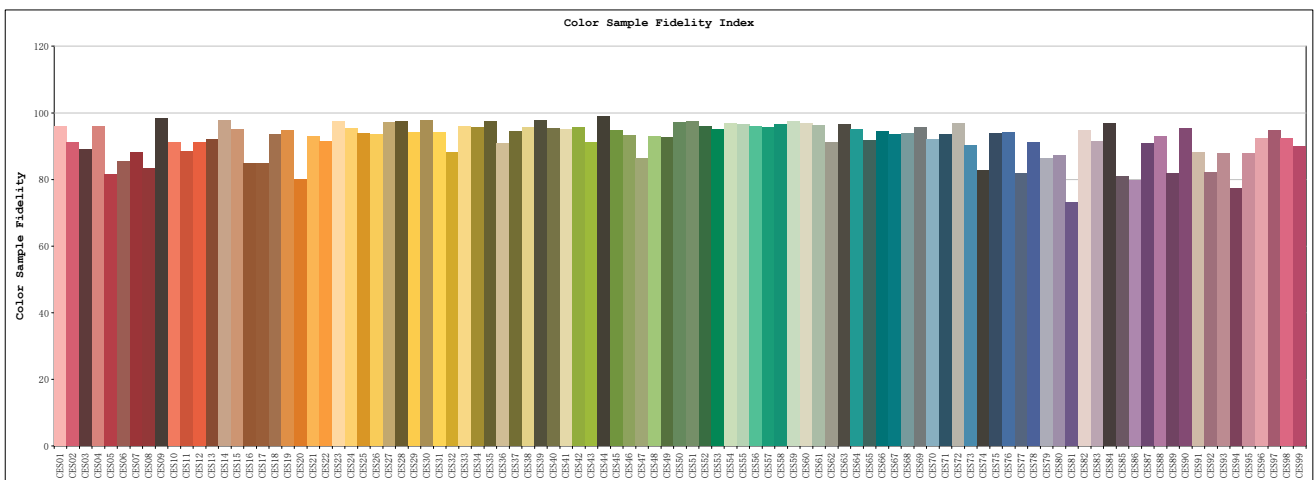
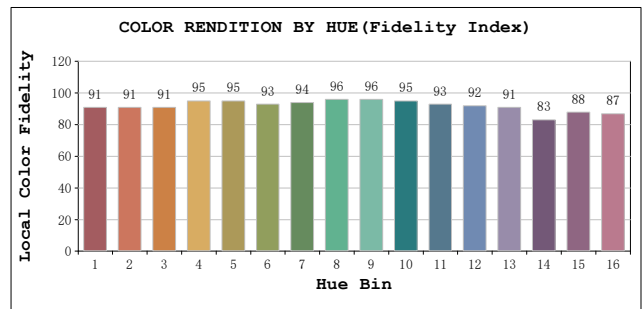
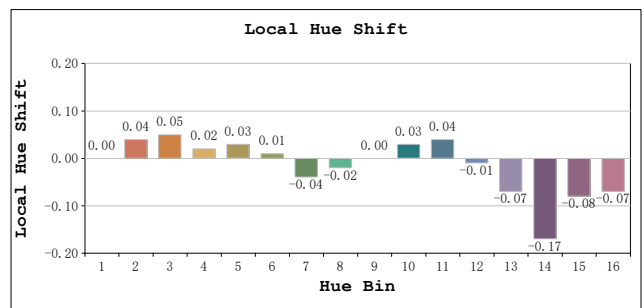
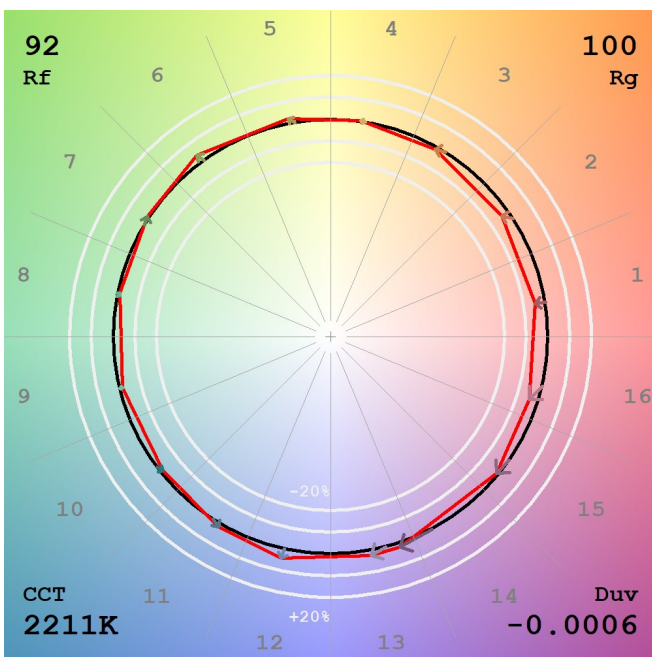
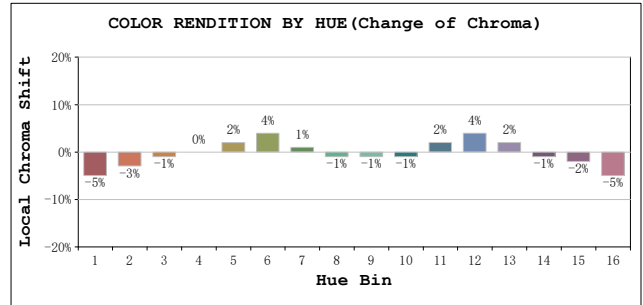
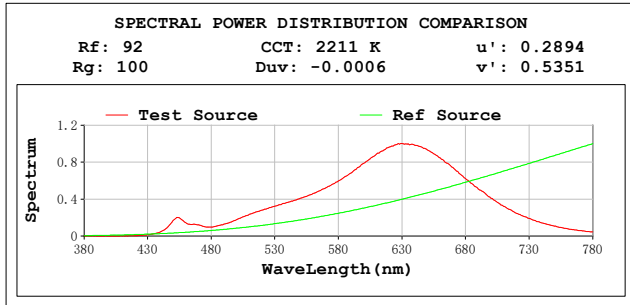
Electrical parameters:

V = 24.004 V I = 0.01537 A P = 0.3690 W PF = 1.0000
 LEVEL:OUT WHITE:EXT_2200K
 Status: Integral T = 2000 ms Ip = 37203 (57%)

GBT5702

TM30

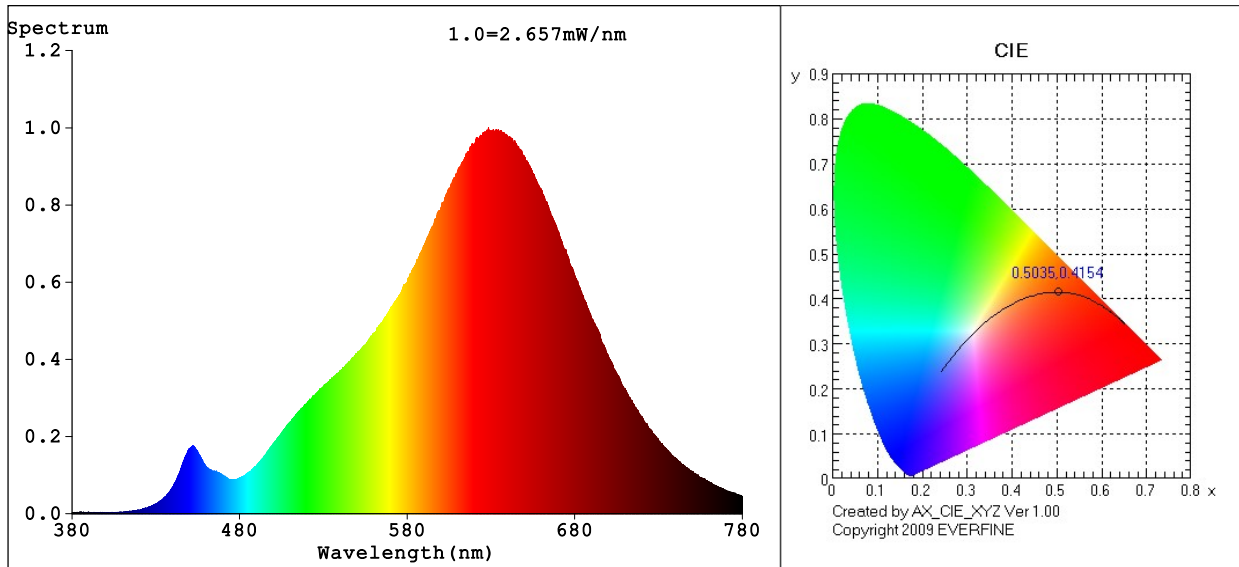
View Angle: 2 Deg



Model:AQF-G-003-2200K
 Tester:EC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AQF-G-003-2200K 24V DC
 Date:2023-10-23 16:20:16
 Humidity:65.0%
 Remarks:24VDC

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.5035$ $y=0.4154$ / $u'=0.2886$ $v'=0.5358$
 CCT=2222K (Duv=0.0000) Dominant WL:Ld =587.1nm WL:Lc = --nm Purity=75.8%
 Ratio:R=31.4% G=67.1% B=1.6% ; Peak WL:Lp=628.5nm FWHM=125.8nm
 Render Index:Ra=93.3 AvgR=91.2 TM30:Rf=92 Rg=100

R1 =93 R2 =97 R3 =99 R4 =94 R5 =93 R6 =98 R7 =91
 R8 =81 R9 =61 R10=92 R11=96 R12=91 R13=94 R14=98 R15=89

Photo Parameters:

Flux = 98.82 lm Eff. : 81.34 lm/W Fe = 388.9 mW

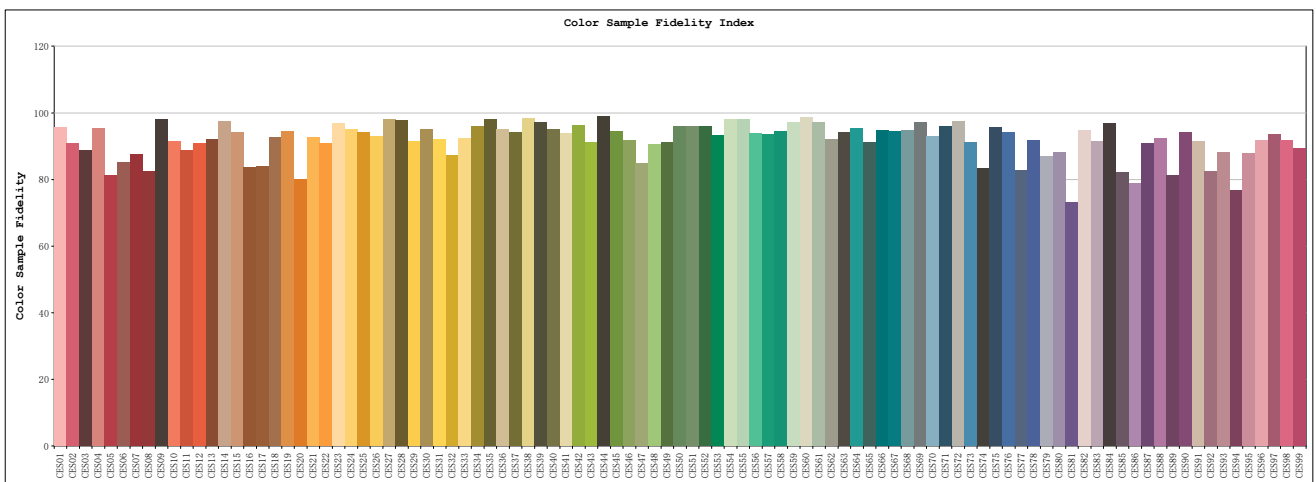
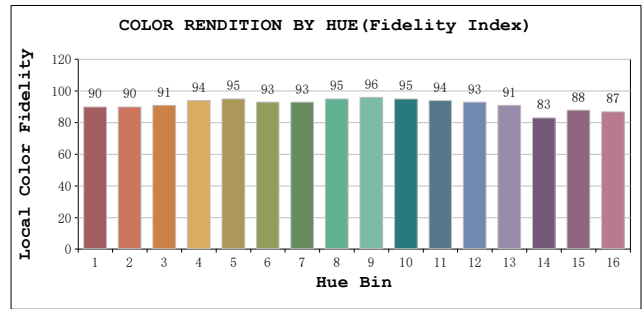
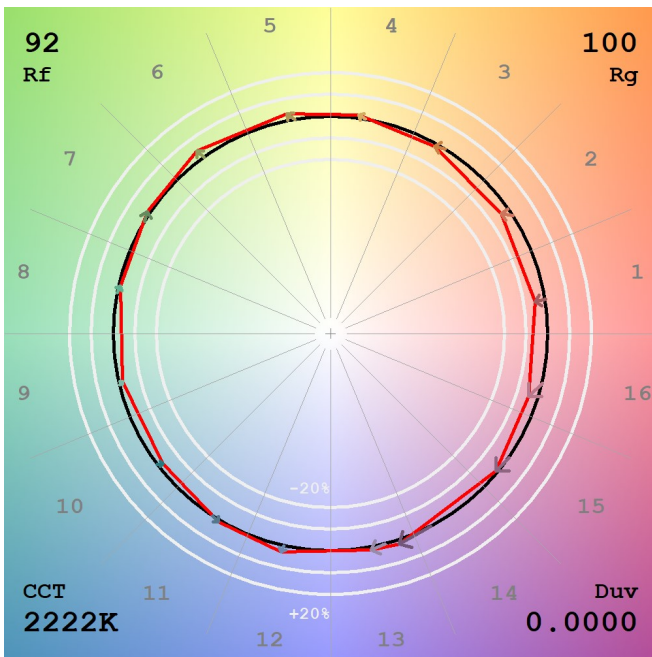
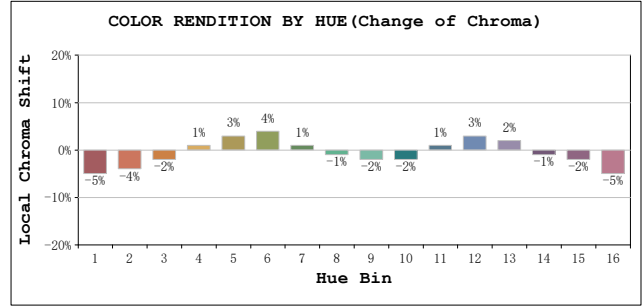
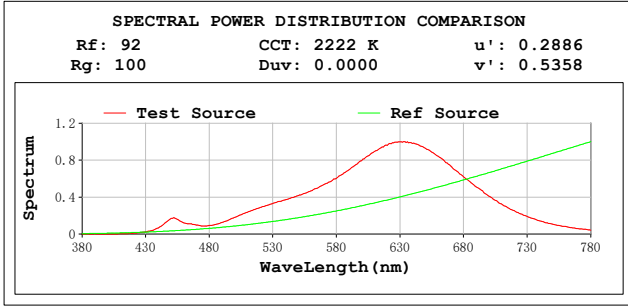
Electrical parameters:

V = 23.991 V I = 0.05735 A P = 1.215 W PF = 0.8830
 LEVEL:OUT WHITE:EXT_2200K
 Status: Integral T = 1000 ms Ip = 40507 (62%)

GBT5702

TM30

View Angle:2 Deg



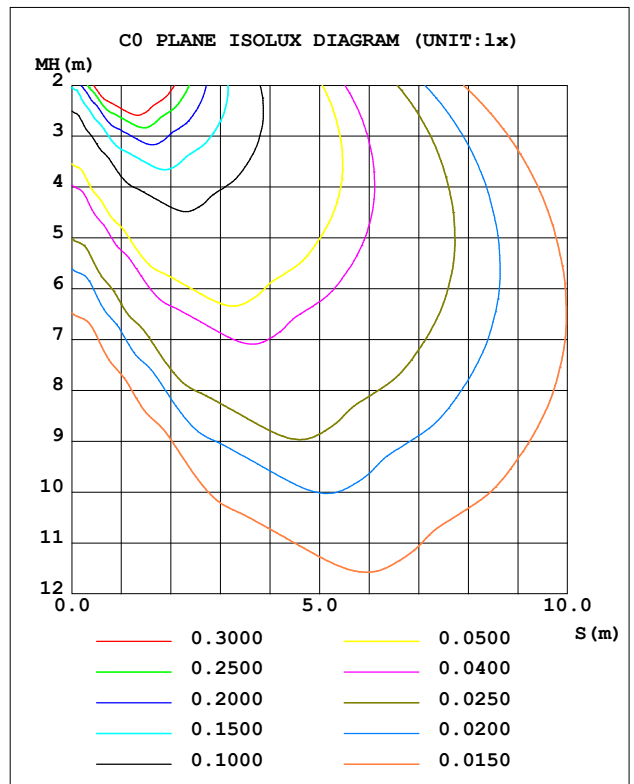
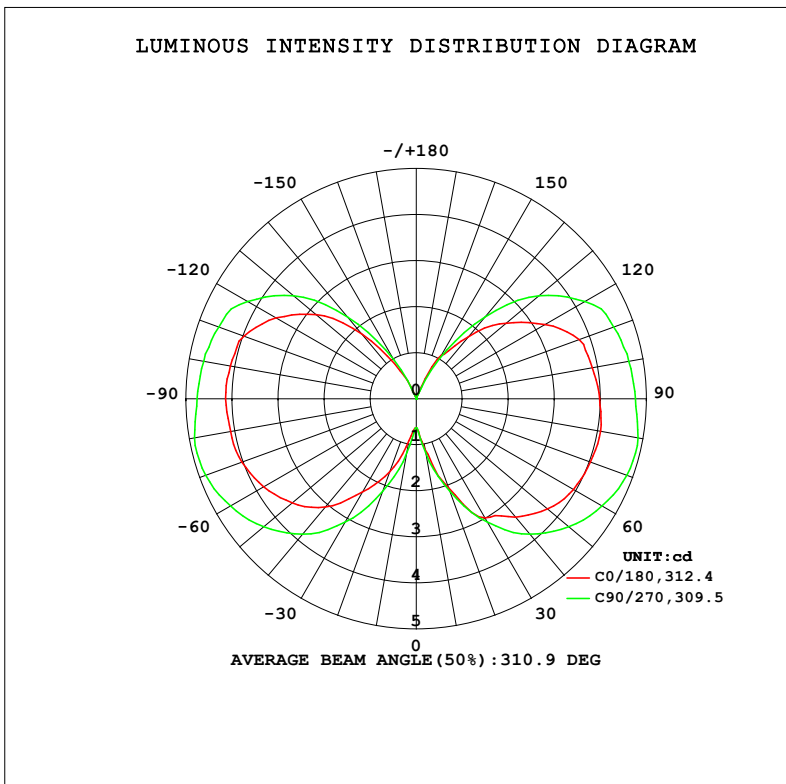
Model:AQF-G-003-2200K
 Tester:EC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AQF-G-003-2200K 24V AC
 Date:2023-10-23 16:22:27
 Humidity:65.0%
 Remarks:24VAC

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | TYPE: E27 GLOBE | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: - |
| MFR.: AQUALUX | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|---------|------------------|---------|--------------------------|------------|
| MODEL | | Imax (cd) | 4.943 | S/MH (C0/180) | 3.93 |
| NOMINAL POWER (W) | 1.5 | LOR (%) | 100.0 | S/MH (C90/270) | 4.23 |
| RATED VOLTAGE (V) | 24 | TOTAL FLUX (lm) | 44.037 | η UP, DN (C0-180) | 22.1, 27.9 |
| NOMINAL FLUX (lm) | 44.0367 | CIE CLASS | DIFFUSE | η UP, DN (C180-360) | 22.3, 27.7 |
| LAMPS INSIDE | 1 | η up (%) | 44.4 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE (V) | 24 | η down (%) | 55.6 | CIBSE SHR MAX | 1.55 |



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-003-2200K
 1.5W / 2200K
 24V DC

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

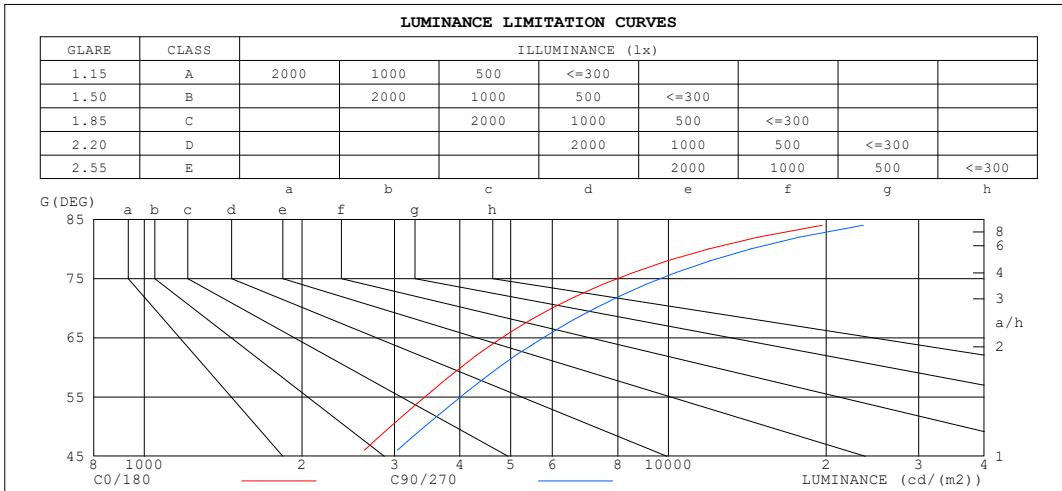
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | ∅ zone | ∅ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------|---------|------------|
| 10 | 1.116 | 1.234 | 1.183 | 1.053 | 0.9299 | 1.053 | 1.183 | 1.234 | 0- 10 | 0.0848 | 0.0848 | 0.19,0.19 |
| 20 | 2.056 | 2.196 | 2.137 | 2.096 | 1.691 | 2.096 | 2.137 | 2.196 | 10- 20 | 0.4576 | 0.5424 | 1.23,1.23 |
| 30 | 2.986 | 3.097 | 3.089 | 3.126 | 2.341 | 3.126 | 3.089 | 3.097 | 20- 30 | 1.184 | 1.726 | 3.92,3.92 |
| 40 | 3.355 | 3.821 | 3.839 | 3.666 | 3.073 | 3.666 | 3.839 | 3.821 | 30- 40 | 2.077 | 3.803 | 8.64,8.64 |
| 50 | 3.725 | 4.291 | 4.322 | 4.222 | 3.521 | 4.222 | 4.322 | 4.291 | 40- 50 | 2.972 | 6.775 | 15.4,15.4 |
| 60 | 3.945 | 4.637 | 4.659 | 4.534 | 3.827 | 4.534 | 4.659 | 4.637 | 50- 60 | 3.742 | 10.52 | 23.9,23.9 |
| 70 | 4.024 | 4.858 | 4.869 | 4.808 | 4.028 | 4.808 | 4.869 | 4.858 | 60- 70 | 4.364 | 14.88 | 33.8,33.8 |
| 80 | 4.065 | 4.854 | 4.887 | 4.864 | 4.092 | 4.864 | 4.887 | 4.854 | 70- 80 | 4.759 | 19.64 | 44.6,44.6 |
| 90 | 3.984 | 4.748 | 4.759 | 4.798 | 4.141 | 4.798 | 4.759 | 4.748 | 80- 90 | 4.849 | 24.49 | 55.6,55.6 |
| 100 | 3.884 | 4.634 | 4.688 | 4.728 | 4.104 | 4.728 | 4.688 | 4.634 | 90-100 | 4.759 | 29.25 | 66.4,66.4 |
| 110 | 3.764 | 4.474 | 4.563 | 4.655 | 3.982 | 4.655 | 4.563 | 4.474 | 100-110 | 4.498 | 33.75 | 76.6,76.6 |
| 120 | 3.229 | 4.119 | 4.229 | 4.040 | 3.518 | 4.040 | 4.229 | 4.119 | 110-120 | 3.980 | 37.73 | 85.7,85.7 |
| 130 | 2.558 | 3.394 | 3.481 | 3.299 | 2.843 | 3.299 | 3.481 | 3.394 | 120-130 | 3.102 | 40.83 | 92.7,92.7 |
| 140 | 1.751 | 2.239 | 2.321 | 2.201 | 1.824 | 2.201 | 2.321 | 2.239 | 130-140 | 2.052 | 42.88 | 97.4,97.4 |
| 150 | 1.091 | 0.9147 | 0.9789 | 0.9132 | 0.7104 | 0.9132 | 0.9789 | 0.9147 | 140-150 | 0.9484 | 43.83 | 99.5,99.5 |
| 160 | 0.0511 | 0.0187 | 0.0187 | 0.0300 | 0.0184 | 0.0300 | 0.0187 | 0.0187 | 150-160 | 0.2063 | 44.03 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0.0000 | 0 | 0 | 0 | 160-170 | 0.0019 | 44.04 | 100,100 |
| 180 | 0 | 0.0012 | 0 | 0 | 0 | 0 | 0 | 0.0012 | 170-180 | 0.0000 | 44.04 | 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

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-003-2200K
 1.5W / 2200K
 24V DC

LUMINANCE LIMITATION CURVES

| | | |
|---|------------------------|-------------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | TYPE: E27 GLOBE | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: - |
| MFR.: AQUALUX | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 23570 | 28228 |
| 80 | 11926 | 14338 |
| 75 | 7965 | 9630 |
| 70 | 5994 | 7252 |
| 65 | 4798 | 5744 |
| 60 | 4019 | 4747 |
| 55 | 3409 | 3983 |
| 50 | 2952 | 3425 |
| 45 | 2527 | 2914 |

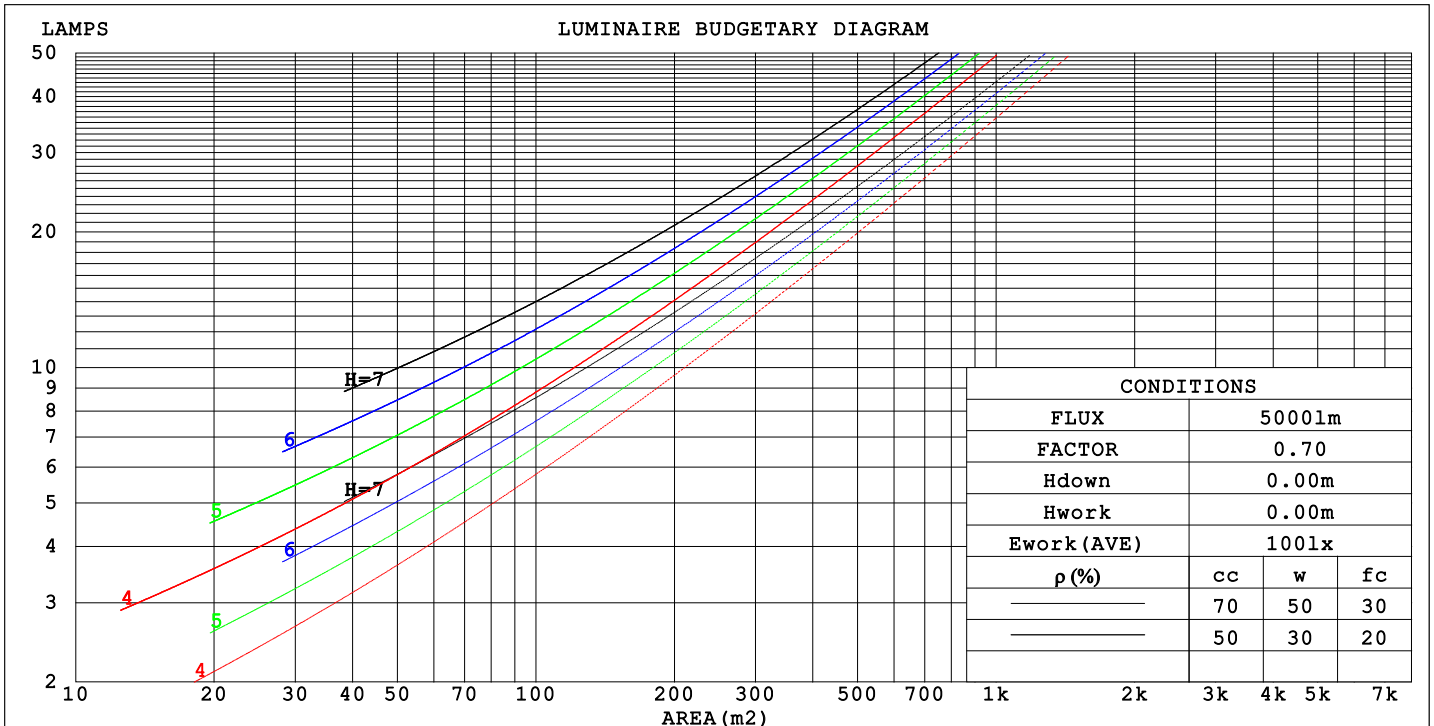
C Range: 0 - 180DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 20°C
 Operator: ELAINE
 Test Date: 24 October 2023

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-003-2200K
 1.5W / 2200K
 24V DC

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | 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 | .56 |
| 1.0 | .87 | .80 | .75 | .80 | .74 | .70 | .67 | .63 | .59 | .56 | .53 | .50 | .45 | .43 | .40 | .35 |
| 2.0 | .72 | .64 | .57 | .67 | .59 | .53 | .56 | .50 | .45 | .46 | .41 | .37 | .36 | .33 | .30 | .25 |
| 3.0 | .62 | .52 | .45 | .57 | .48 | .41 | .47 | .41 | .35 | .39 | .33 | .29 | .31 | .26 | .23 | .19 |
| 4.0 | .53 | .44 | .36 | .49 | .40 | .33 | .41 | .34 | .28 | .33 | .28 | .23 | .26 | .22 | .18 | .14 |
| 5.0 | .47 | .37 | .30 | .43 | .34 | .28 | .36 | .29 | .23 | .29 | .23 | .19 | .23 | .18 | .15 | .11 |
| 6.0 | .41 | .32 | .25 | .38 | .29 | .23 | .32 | .25 | .19 | .26 | .20 | .16 | .20 | .16 | .12 | .09 |
| 7.0 | .37 | .28 | .21 | .34 | .26 | .20 | .28 | .22 | .17 | .23 | .18 | .13 | .18 | .14 | .10 | .08 |
| 8.0 | .33 | .24 | .18 | .31 | .23 | .17 | .26 | .19 | .14 | .21 | .16 | .12 | .17 | .12 | .09 | .06 |
| 9.0 | .30 | .22 | .16 | .28 | .20 | .15 | .23 | .17 | .12 | .19 | .14 | .10 | .15 | .11 | .08 | .05 |
| 10.0 | .27 | .19 | .14 | .25 | .18 | .13 | .21 | .15 | .11 | .17 | .12 | .09 | .14 | .10 | .07 | .05 |



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-003-2200K
 1.5W / 2200K
 24V DC

WEC AND CCEC

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | 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 | .437 | .249 | .079 | .416 | .238 | .075 | .377 | .217 | .069 | .342 | .197 | .063 | .309 | .179 | .058 | |
| 2.0 | .362 | .198 | .061 | .343 | .189 | .058 | .307 | .171 | .053 | .274 | .154 | .048 | .244 | .138 | .043 | |
| 3.0 | .314 | .167 | .050 | .296 | .159 | .048 | .264 | .143 | .043 | .234 | .128 | .039 | .206 | .114 | .035 | |
| 4.0 | .278 | .144 | .042 | .262 | .137 | .041 | .232 | .123 | .037 | .204 | .110 | .033 | .179 | .097 | .030 | |
| 5.0 | .250 | .127 | .037 | .235 | .121 | .035 | .208 | .108 | .032 | .182 | .096 | .029 | .158 | .085 | .025 | |
| 6.0 | .227 | .114 | .033 | .214 | .108 | .031 | .188 | .096 | .028 | .165 | .086 | .025 | .143 | .075 | .022 | |
| 7.0 | .208 | .103 | .029 | .196 | .097 | .028 | .172 | .087 | .025 | .150 | .077 | .022 | .130 | .067 | .020 | |
| 8.0 | .192 | .094 | .026 | .180 | .089 | .025 | .159 | .079 | .023 | .138 | .070 | .020 | .119 | .061 | .018 | |
| 9.0 | .178 | .086 | .024 | .167 | .082 | .023 | .147 | .073 | .021 | .128 | .064 | .018 | .110 | .056 | .016 | |
| 10.0 | .166 | .080 | .022 | .156 | .075 | .021 | .137 | .067 | .019 | .119 | .059 | .017 | .103 | .052 | .015 | |

| 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 | .529 | .529 | .529 | .452 | .452 | .452 | .308 | .308 | .308 | .177 | .177 | .177 | .057 | .057 | .057 | |
| 1.0 | .530 | .496 | .465 | .454 | .426 | .400 | .310 | .293 | .277 | .179 | .169 | .161 | .057 | .055 | .052 | |
| 2.0 | .525 | .475 | .433 | .450 | .409 | .374 | .308 | .283 | .261 | .178 | .165 | .153 | .057 | .053 | .050 | |
| 3.0 | .518 | .460 | .413 | .444 | .397 | .358 | .305 | .276 | .251 | .176 | .161 | .148 | .057 | .052 | .049 | |
| 4.0 | .511 | .448 | .401 | .438 | .387 | .348 | .301 | .270 | .245 | .174 | .158 | .145 | .056 | .051 | .048 | |
| 5.0 | .503 | .439 | .392 | .432 | .380 | .341 | .298 | .265 | .241 | .172 | .156 | .143 | .056 | .051 | .047 | |
| 6.0 | .496 | .432 | .386 | .426 | .374 | .336 | .294 | .262 | .238 | .171 | .154 | .141 | .055 | .050 | .047 | |
| 7.0 | .489 | .426 | .382 | .420 | .369 | .333 | .290 | .259 | .236 | .169 | .152 | .140 | .055 | .050 | .046 | |
| 8.0 | .482 | .421 | .378 | .415 | .365 | .330 | .287 | .256 | .234 | .167 | .151 | .139 | .054 | .050 | .046 | |
| 9.0 | .476 | .416 | .376 | .410 | .361 | .328 | .284 | .254 | .233 | .165 | .150 | .139 | .054 | .049 | .046 | |
| 10.0 | .470 | .412 | .374 | .405 | .358 | .326 | .281 | .252 | .232 | .164 | .149 | .138 | .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-003-2200K
 1.5W / 2200K
 24V DC

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | | | | | | | | | |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | | | | | | | | | |
| NAME: AQF-G-003-2200K | | | | | 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 | 25.9 | 27.0 | 26.7 | 27.9 | 28.9 | 26.3 | 27.5 | 27.1 | 28.3 | 29.4 |
| 3H | 29.1 | 30.1 | 29.9 | 31.0 | 32.1 | 29.7 | 30.8 | 30.6 | 31.7 | 32.8 |
| 4H | 30.9 | 31.9 | 31.7 | 32.8 | 33.9 | 31.6 | 32.7 | 32.5 | 33.5 | 34.7 |
| 6H | 32.8 | 33.8 | 33.7 | 34.7 | 35.8 | 33.7 | 34.7 | 34.6 | 35.6 | 36.7 |
| 8H | 33.9 | 34.8 | 34.8 | 35.7 | 36.9 | 34.8 | 35.8 | 35.7 | 36.7 | 37.8 |
| 12H | 35.1 | 36.0 | 36.0 | 36.9 | 38.1 | 36.1 | 37.0 | 37.0 | 37.9 | 39.1 |
| 4H 2H | 27.1 | 28.1 | 27.9 | 29.0 | 30.1 | 27.4 | 28.4 | 28.2 | 29.3 | 30.4 |
| 3H | 30.4 | 31.3 | 31.3 | 32.2 | 33.4 | 30.9 | 31.8 | 31.8 | 32.7 | 33.9 |
| 4H | 32.4 | 33.2 | 33.3 | 34.1 | 35.3 | 32.9 | 33.7 | 33.8 | 34.7 | 35.8 |
| 6H | 34.5 | 35.2 | 35.4 | 36.1 | 37.3 | 35.1 | 35.9 | 36.1 | 36.8 | 38.0 |
| 8H | 35.6 | 36.3 | 36.5 | 37.2 | 38.5 | 36.3 | 37.0 | 37.3 | 38.0 | 39.2 |
| 12H | 36.9 | 37.5 | 37.8 | 38.5 | 39.7 | 37.7 | 38.4 | 38.7 | 39.3 | 40.6 |
| 8H 4H | 33.2 | 33.9 | 34.1 | 34.9 | 36.1 | 33.6 | 34.3 | 34.6 | 35.3 | 36.5 |
| 6H | 35.6 | 36.2 | 36.6 | 37.2 | 38.4 | 36.1 | 36.7 | 37.1 | 37.7 | 38.9 |
| 8H | 37.0 | 37.5 | 37.9 | 38.5 | 39.7 | 37.5 | 38.0 | 38.5 | 39.0 | 40.3 |
| 12H | 38.5 | 38.9 | 39.4 | 39.9 | 41.2 | 39.1 | 39.6 | 40.1 | 40.6 | 41.8 |
| 12H 4H | 33.5 | 34.1 | 34.4 | 35.1 | 36.3 | 33.8 | 34.5 | 34.8 | 35.4 | 36.7 |
| 6H | 36.0 | 36.5 | 36.9 | 37.5 | 38.8 | 36.4 | 37.0 | 37.4 | 37.9 | 39.2 |
| 8H | 37.5 | 37.9 | 38.4 | 38.9 | 40.2 | 37.9 | 38.4 | 38.9 | 39.4 | 40.7 |
| 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, 44.04 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.8)
 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-003-2200K
 1.5W / 2200K
 24V DC

UTILIZATION FACTORS TABLE

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | TYPE: E27 GLOBE | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: - |
| MFR.: AQUALUX | SUR.: | Shielding Angle: |

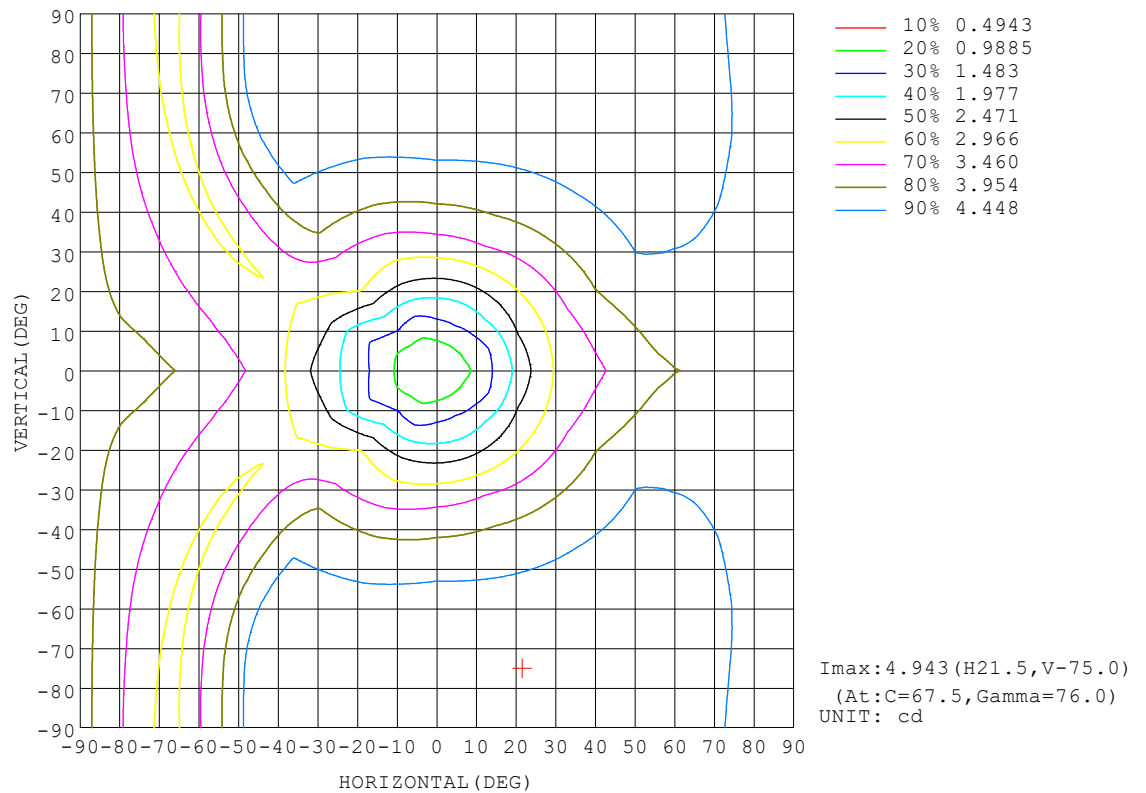
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 35 | 22 | 14 | 33 | 21 | 14 | 30 | 20 | 13 | 6 |
| 0.80 | 44 | 29 | 21 | 41 | 28 | 20 | 37 | 25 | 18 | 9 |
| 1.00 | 51 | 36 | 27 | 48 | 34 | 26 | 42 | 33 | 23 | 12 |
| 1.25 | 58 | 43 | 33 | 54 | 41 | 32 | 47 | 36 | 28 | 16 |
| 1.50 | 63 | 49 | 39 | 59 | 46 | 37 | 51 | 41 | 33 | 18 |
| 2.00 | 71 | 58 | 48 | 66 | 54 | 45 | 57 | 47 | 40 | 23 |
| 2.50 | 76 | 64 | 54 | 71 | 60 | 51 | 61 | 52 | 45 | 26 |
| 3.00 | 81 | 69 | 60 | 75 | 64 | 56 | 64 | 56 | 49 | 29 |
| 4.00 | 86 | 76 | 68 | 80 | 71 | 63 | 68 | 61 | 55 | 33 |
| 5.00 | 90 | 81 | 73 | 83 | 75 | 69 | 71 | 65 | 60 | 36 |
| 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

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-003-2200K
 1.5W / 2200K
 24V DC

ISOCANDELA DIAGRAM

| | | |
|---|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | TYPE: E27 GLOBE | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: - |
| MFR.: AQUALUX | SUR.: | Shielding Angle: |

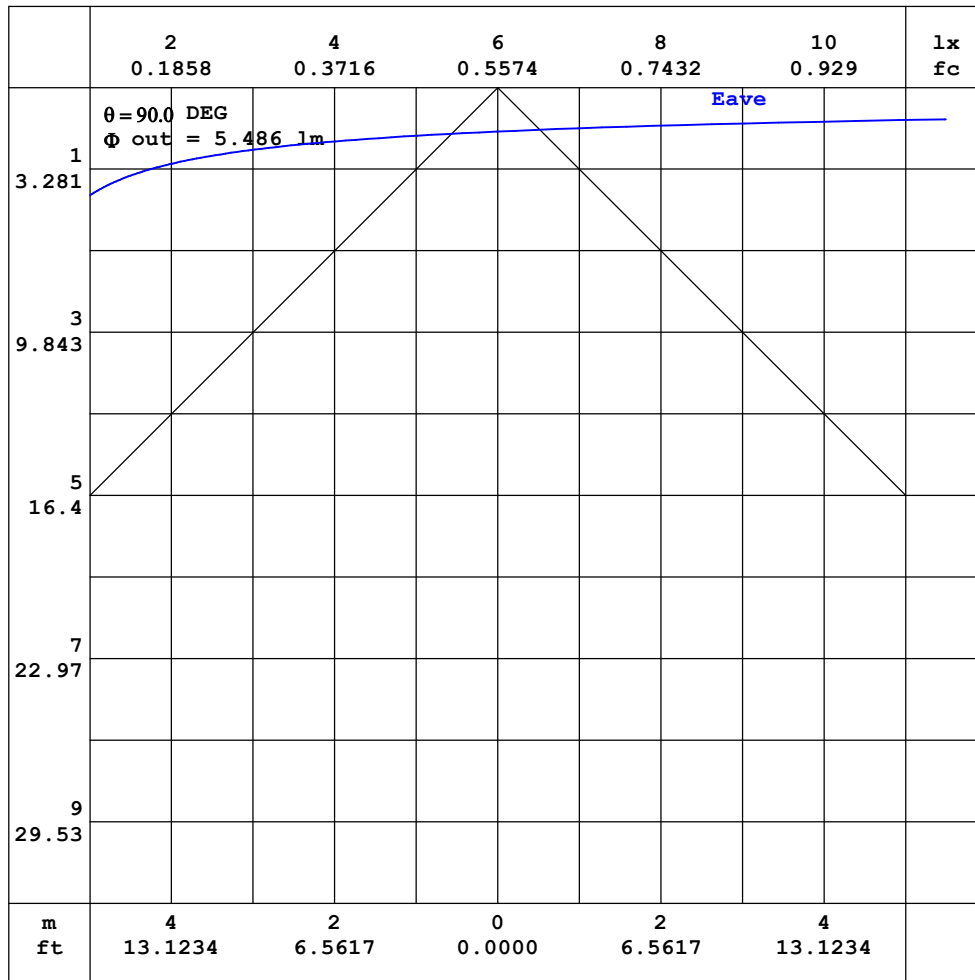


C Range: 0 - 180DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 20°C
 Operators: ELAINE
 Test Date: 24 October 2023

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-003-2200K
 1.5W / 2200K
 24V DC

AAI CURVES

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | TYPE: E27 GLOBE | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: - |
| MFR.: AQUALUX | SUR.: | Shielding Angle: |



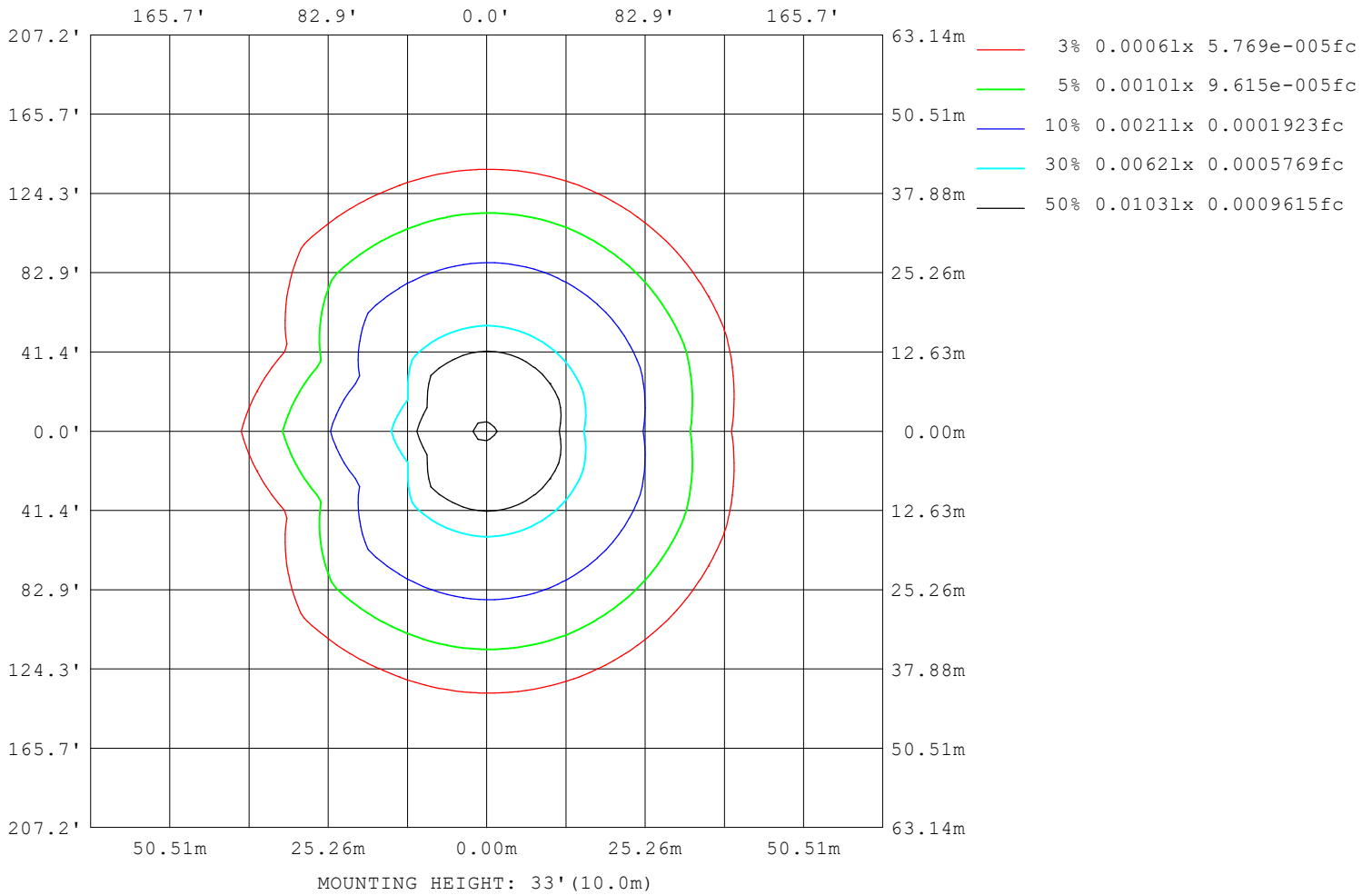
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-003-2200K
 1.5W / 2200K
 24V DC

ISOLUX DIAGRAM

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | 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-003-2200K
 1.5W / 2200K
 24V DC

LED Avg.L Report

| | | |
|---|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | TYPE: E27 GLOBE | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: - |
| MFR.: AQUALUX | SUR.: | Shielding Angle: |

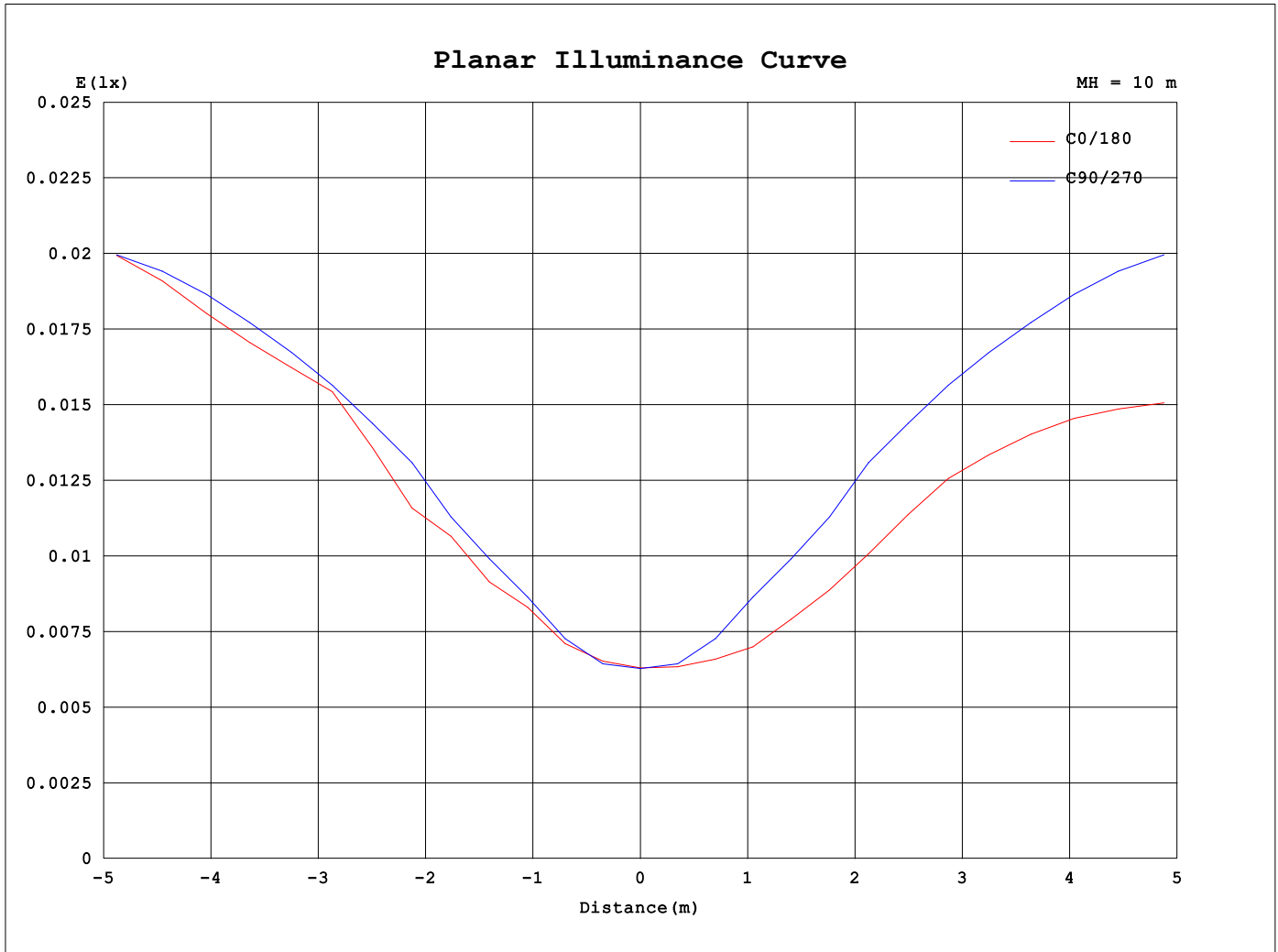
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 4777 |
| L_0~180 (75) av | 8014 |
| L_0~180 (85) av | 23790 |
| L_90~270 (65) av | 5772 |
| L_90~270 (75) av | 9643 |
| L_90~270 (85) av | 28139 |
| L_45 (65) av | 5695 |
| L_45 (75) av | 9589 |
| L_45 (85) av | 28082 |

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-003-2200K
 1.5W / 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-003-2200K
 1.5W / 2200K
 24V DC

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------|------------------|
| Test:U:23.990V I:0.0156A P:0.3748W PF:1.0000 Freq:0Hz | | |
| UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:44.0367x1 lm | | |
| NAME: AQF-G-003-2200K | 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 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | | | |
| 5 | 0.72 | 0.75 | 0.76 | 0.76 | 0.73 | 0.71 | 0.70 | 0.65 | 0.66 | 0.65 | 0.70 | 0.71 | 0.73 | 0.76 | 0.76 | 0.75 | | | |
| 10 | 1.12 | 1.13 | 1.23 | 1.28 | 1.18 | 1.04 | 1.05 | 0.93 | 0.93 | 0.93 | 1.05 | 1.04 | 1.18 | 1.28 | 1.23 | 1.13 | | | |
| 15 | 1.49 | 1.47 | 1.62 | 1.63 | 1.57 | 1.40 | 1.48 | 1.23 | 1.24 | 1.23 | 1.48 | 1.40 | 1.57 | 1.63 | 1.62 | 1.47 | | | |
| 20 | 2.06 | 2.20 | 2.20 | 2.16 | 2.14 | 2.11 | 2.10 | 1.58 | 1.69 | 1.58 | 2.10 | 2.11 | 2.14 | 2.16 | 2.20 | 2.20 | | | |
| 25 | 2.51 | 2.63 | 2.59 | 2.56 | 2.55 | 2.51 | 2.58 | 1.90 | 1.95 | 1.90 | 2.58 | 2.51 | 2.55 | 2.56 | 2.59 | 2.63 | | | |
| 30 | 2.99 | 3.03 | 3.10 | 3.18 | 3.09 | 3.00 | 3.13 | 2.58 | 2.34 | 2.58 | 3.13 | 3.00 | 3.09 | 3.18 | 3.10 | 3.03 | | | |
| 35 | 3.06 | 3.31 | 3.40 | 3.50 | 3.43 | 3.27 | 3.24 | 2.82 | 2.63 | 2.82 | 3.24 | 3.27 | 3.43 | 3.50 | 3.40 | 3.31 | | | |
| 40 | 3.35 | 3.75 | 3.82 | 3.88 | 3.84 | 3.72 | 3.67 | 2.99 | 3.07 | 2.99 | 3.67 | 3.72 | 3.84 | 3.88 | 3.82 | 3.75 | | | |
| 45 | 3.51 | 3.95 | 4.03 | 4.07 | 4.05 | 3.95 | 3.93 | 3.00 | 3.27 | 3.00 | 3.93 | 3.95 | 4.05 | 4.07 | 4.03 | 3.95 | | | |
| 50 | 3.73 | 4.22 | 4.29 | 4.32 | 4.32 | 4.23 | 4.22 | 2.95 | 3.52 | 2.95 | 4.22 | 4.23 | 4.32 | 4.32 | 4.29 | 4.22 | | | |
| 55 | 3.84 | 4.37 | 4.43 | 4.45 | 4.48 | 4.39 | 4.37 | 2.92 | 3.65 | 2.92 | 4.37 | 4.39 | 4.48 | 4.45 | 4.43 | 4.37 | | | |
| 60 | 3.95 | 4.54 | 4.64 | 4.64 | 4.66 | 4.58 | 4.53 | 2.88 | 3.83 | 2.88 | 4.53 | 4.58 | 4.66 | 4.64 | 4.64 | 4.54 | | | |
| 65 | 3.98 | 4.61 | 4.75 | 4.77 | 4.77 | 4.69 | 4.66 | 2.88 | 3.92 | 2.88 | 4.66 | 4.69 | 4.77 | 4.77 | 4.75 | 4.61 | | | |
| 70 | 4.02 | 4.70 | 4.86 | 4.90 | 4.87 | 4.81 | 4.81 | 2.85 | 4.03 | 2.85 | 4.81 | 4.81 | 4.87 | 4.90 | 4.86 | 4.70 | | | |
| 75 | 4.05 | 4.72 | 4.87 | 4.93 | 4.89 | 4.83 | 4.86 | 2.83 | 4.08 | 2.83 | 4.86 | 4.83 | 4.89 | 4.93 | 4.87 | 4.72 | | | |
| 80 | 4.07 | 4.71 | 4.85 | 4.93 | 4.89 | 4.85 | 4.86 | 2.81 | 4.09 | 2.81 | 4.86 | 4.85 | 4.89 | 4.93 | 4.85 | 4.71 | | | |
| 85 | 4.03 | 4.68 | 4.81 | 4.86 | 4.83 | 4.79 | 4.82 | 2.77 | 4.11 | 2.77 | 4.82 | 4.79 | 4.83 | 4.86 | 4.81 | 4.68 | | | |
| 90 | 3.98 | 4.59 | 4.75 | 4.77 | 4.76 | 4.75 | 4.80 | 2.73 | 4.14 | 2.73 | 4.80 | 4.75 | 4.76 | 4.77 | 4.75 | 4.59 | | | |
| 95 | 3.95 | 4.54 | 4.71 | 4.75 | 4.73 | 4.74 | 4.78 | 2.69 | 4.14 | 2.69 | 4.78 | 4.74 | 4.73 | 4.75 | 4.71 | 4.54 | | | |
| 100 | 3.88 | 4.47 | 4.63 | 4.68 | 4.69 | 4.69 | 4.73 | 2.60 | 4.10 | 2.60 | 4.73 | 4.69 | 4.69 | 4.68 | 4.63 | 4.47 | | | |
| 105 | 3.85 | 4.42 | 4.58 | 4.64 | 4.64 | 4.64 | 4.70 | 2.53 | 4.06 | 2.53 | 4.70 | 4.64 | 4.64 | 4.64 | 4.58 | 4.42 | | | |
| 110 | 3.76 | 4.35 | 4.47 | 4.54 | 4.56 | 4.56 | 4.66 | 2.43 | 3.98 | 2.43 | 4.66 | 4.56 | 4.56 | 4.54 | 4.47 | 4.35 | | | |
| 115 | 3.58 | 4.20 | 4.41 | 4.46 | 4.52 | 4.44 | 4.44 | 2.34 | 3.82 | 2.34 | 4.44 | 4.44 | 4.52 | 4.46 | 4.41 | 4.20 | | | |
| 120 | 3.23 | 3.83 | 4.12 | 4.37 | 4.23 | 4.04 | 4.04 | 2.20 | 3.52 | 2.20 | 4.04 | 4.04 | 4.23 | 4.37 | 4.12 | 3.83 | | | |
| 125 | 2.96 | 3.57 | 3.86 | 4.09 | 3.96 | 3.76 | 3.75 | 2.10 | 3.26 | 2.10 | 3.75 | 3.76 | 3.96 | 4.09 | 3.86 | 3.57 | | | |
| 130 | 2.56 | 3.16 | 3.39 | 3.55 | 3.48 | 3.37 | 3.30 | 1.90 | 2.84 | 1.90 | 3.30 | 3.37 | 3.48 | 3.55 | 3.39 | 3.16 | | | |
| 135 | 2.30 | 2.82 | 2.98 | 3.12 | 3.08 | 3.01 | 2.95 | 1.77 | 2.52 | 1.77 | 2.95 | 3.01 | 3.08 | 3.12 | 2.98 | 2.82 | | | |
| 140 | 1.75 | 2.10 | 2.24 | 2.32 | 2.32 | 2.26 | 2.20 | 1.41 | 1.82 | 1.41 | 2.20 | 2.26 | 2.32 | 2.32 | 2.24 | 2.10 | | | |
| 145 | 1.42 | 1.60 | 1.71 | 1.77 | 1.78 | 1.73 | 1.67 | 1.15 | 1.35 | 1.15 | 1.67 | 1.73 | 1.78 | 1.77 | 1.71 | 1.60 | | | |
| 150 | 1.09 | 0.88 | 0.91 | 0.96 | 0.98 | 0.92 | 0.91 | 0.83 | 0.71 | 0.83 | 0.91 | 0.92 | 0.98 | 0.96 | 0.91 | 0.88 | | | |
| 155 | 0.78 | 0.57 | 0.41 | 0.43 | 0.44 | 0.48 | 0.69 | 0.65 | 0.45 | 0.65 | 0.69 | 0.48 | 0.44 | 0.43 | 0.41 | 0.57 | | | |
| 160 | 0.05 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.06 | 0.02 | 0.06 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | | | |
| 165 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |

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-003-2200K
 1.5W / 2200K
 24V DC