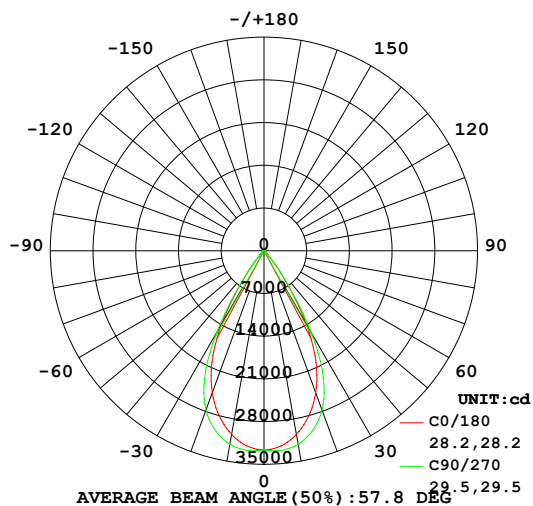


## LUMINAIRE PHOTOMETRIC TEST REPORT

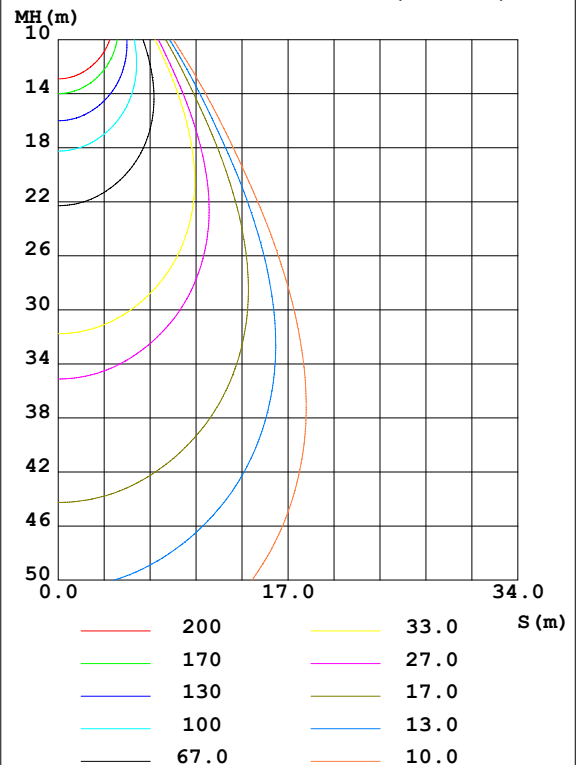
|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 138.06 lm/W |        |                          |           |
|-------------------|---------|-----------------------------------|--------|--------------------------|-----------|
| MODEL             | 3030    | I <sub>max</sub> (cd)             | 32838  | S/MH (C0/180)            | 0.84      |
| NOMINAL POWER (W) | 200     | LOR (%)                           | 100.0  | S/MH (C90/270)           | 0.87      |
| RATED VOLTAGE (V) | 220.0   | TOTAL FLUX (lm)                   | 27529  | $\eta$ UP, DN (C0-180)   | 0.0, 50.0 |
| NOMINAL FLUX (lm) | 27529.2 | CIE CLASS                         | DIRECT | $\eta$ UP, DN (C180-360) | 0.0, 50.0 |
| LAMPS INSIDE      | 1       | $\eta$ up (%)                     | 0.0    | CIBSE SHR NOM            | 0.75      |
| TEST VOLTAGE (V)  | 220     | $\eta$ down (%)                   | 100.0  | CIBSE SHR MAX            | 0.90      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                       | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 3056                     | 3139  | 3217  | 3139  | 3056  | 3139  | 3217  | 3139  | 0- 10    | 3064        | 3064         | 11.1,11.1  |
| 20       | 2478                     | 2670  | 2780  | 2670  | 2478  | 2670  | 2780  | 2670  | 10- 20   | 8231        | 11295        | 41,41      |
| 30       | 1391                     | 1544  | 1561  | 1544  | 1391  | 1544  | 1561  | 1544  | 20- 30   | 9834        | 21130        | 76.8,76.8  |
| 40       | 243.1                    | 250.5 | 246.2 | 250.5 | 243.1 | 250.5 | 246.2 | 250.5 | 30- 40   | 4691        | 25821        | 93.8,93.8  |
| 50       | 59.34                    | 54.00 | 49.06 | 54.00 | 59.34 | 54.00 | 49.06 | 54.00 | 40- 50   | 762.2       | 26583        | 96.6,96.6  |
| 60       | 42.47                    | 40.19 | 37.45 | 40.19 | 42.47 | 40.19 | 37.45 | 40.19 | 50- 60   | 420.8       | 27004        | 98.1,98.1  |
| 70       | 26.03                    | 24.52 | 22.19 | 24.52 | 26.03 | 24.52 | 22.19 | 24.52 | 60- 70   | 312.6       | 27316        | 99.2,99.2  |
| 80       | 10.25                    | 9.637 | 8.511 | 9.637 | 10.25 | 9.637 | 8.511 | 9.637 | 70- 80   | 179.8       | 27496        | 99.9,99.9  |
| 90       | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 80- 90   | 33.03       | 27529        | 100,100    |
| 100      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 90-100   | 0           | 27529        | 100,100    |
| 110      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 100-110  | 0           | 27529        | 100,100    |
| 120      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 110-120  | 0           | 27529        | 100,100    |
| 130      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 120-130  | 0           | 27529        | 100,100    |
| 140      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 130-140  | 0           | 27529        | 100,100    |
| 150      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 140-150  | 0           | 27529        | 100,100    |
| 160      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 150-160  | 0           | 27529        | 100,100    |
| 170      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 160-170  | 0           | 27529        | 100,100    |
| 180      | 0                        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 170-180  | 0           | 27529        | 100,100    |
| DEG      | LUMINOUS INTENSITY:×10cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 26331 lm

%lum = 95.6%

%lamp = 95.6%

Conical surface Flux(120deg): 27004 lm

%lum = 98.1%

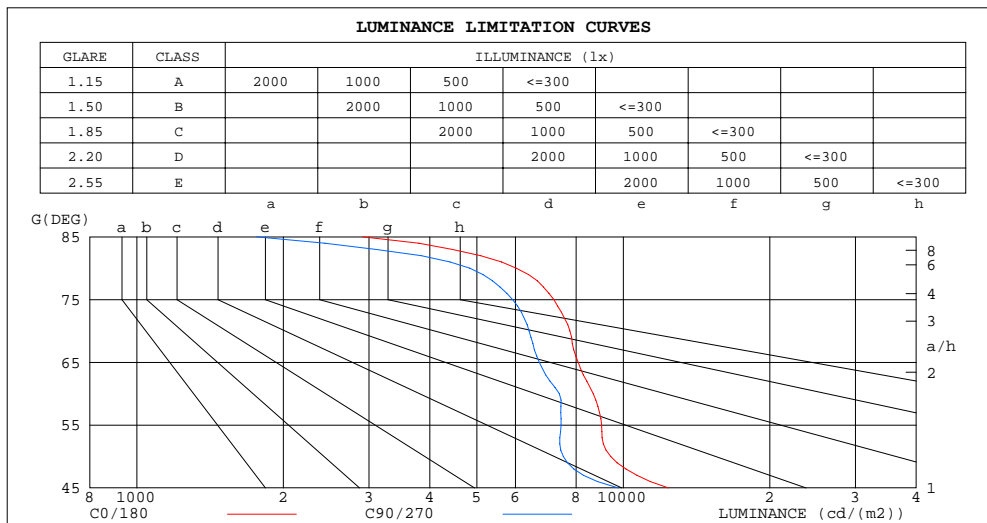
%lamp = 98.1%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.633m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 2910   | 1763    |
| 80                | 6026   | 4834    |
| 75                | 7198   | 5922    |
| 70                | 7768   | 6400    |
| 65                | 8076   | 6720    |
| 60                | 8670   | 7388    |
| 55                | 9024   | 7450    |
| 50                | 9422   | 7527    |
| 45                | 12385  | 9764    |

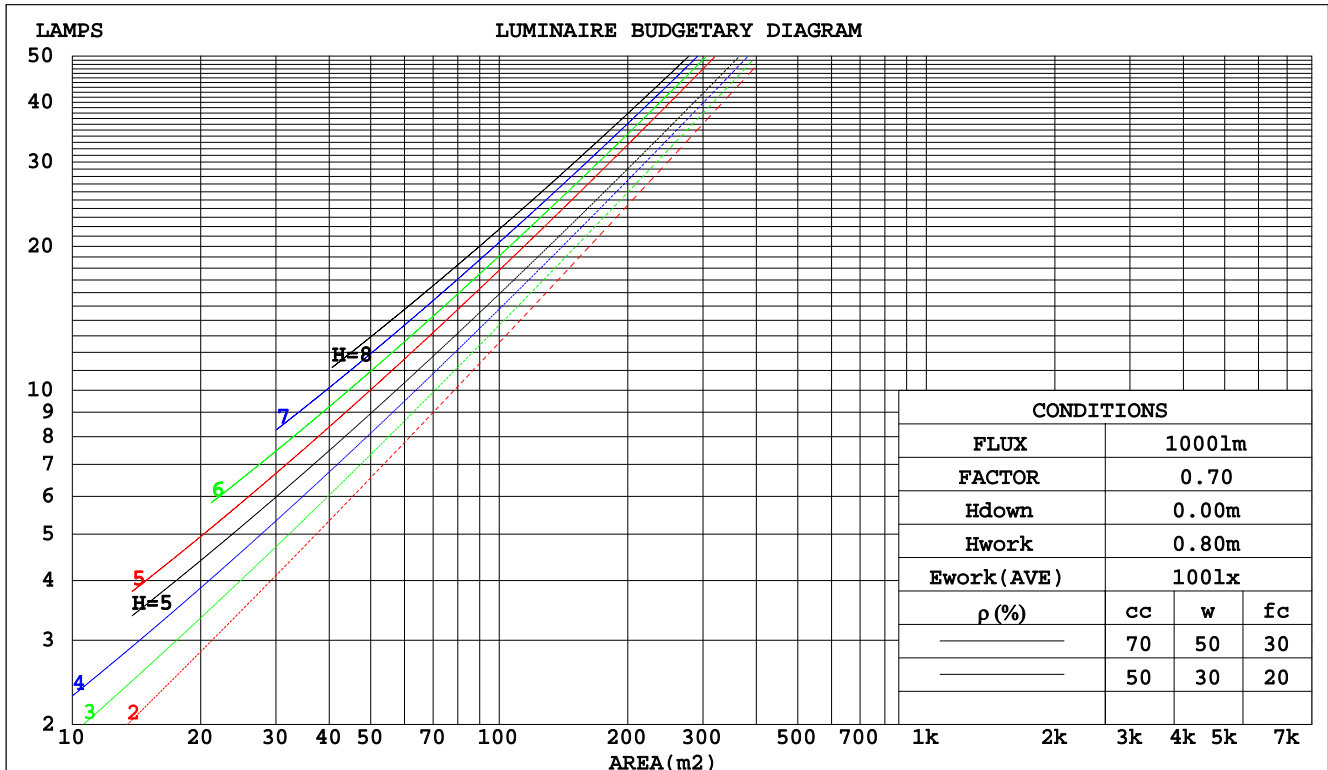
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |

|             |                       |      |      |                                 |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| $\rho_{cc}$ | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0    |
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| $\rho_{fc}$ | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR         | RCR:Room Cavity Ratio |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16                            | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0         | 1.11                  | 1.08 | 1.06 | 1.09                            | 1.06 | 1.04 | 1.04 | 1.03 | 1.01 | 1.01 | .99  | .98  | .97  | .96  | .95  | .93  |
| 2.0         | 1.03                  | .99  | .96  | 1.01                            | .98  | .95  | .98  | .95  | .93  | .95  | .93  | .91  | .92  | .90  | .89  | .87  |
| 3.0         | .96                   | .91  | .87  | .95                             | .90  | .87  | .92  | .88  | .85  | .90  | .87  | .84  | .88  | .85  | .83  | .81  |
| 4.0         | .90                   | .85  | .81  | .89                             | .84  | .80  | .87  | .83  | .79  | .85  | .81  | .78  | .83  | .80  | .77  | .76  |
| 5.0         | .85                   | .79  | .75  | .84                             | .78  | .74  | .82  | .77  | .74  | .80  | .76  | .73  | .79  | .75  | .72  | .71  |
| 6.0         | .80                   | .74  | .70  | .79                             | .73  | .69  | .77  | .73  | .69  | .76  | .72  | .68  | .75  | .71  | .68  | .67  |
| 7.0         | .75                   | .69  | .65  | .75                             | .69  | .65  | .73  | .68  | .65  | .72  | .68  | .64  | .71  | .67  | .64  | .63  |
| 8.0         | .71                   | .65  | .61  | .71                             | .65  | .61  | .69  | .64  | .61  | .68  | .64  | .61  | .67  | .63  | .60  | .59  |
| 9.0         | .67                   | .62  | .58  | .67                             | .61  | .58  | .66  | .61  | .57  | .65  | .60  | .57  | .64  | .60  | .57  | .56  |
| 10.0        | .64                   | .58  | .54  | .63                             | .58  | .54  | .63  | .58  | .54  | .62  | .57  | .54  | .61  | .57  | .54  | .53  |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                                |                         |                  |
|--------------------------------------------------------------------------------|-------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                         |                  |
| NAME: AOK oH                                                                   | TYPE:LED                | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi$ 0.4*0.141M | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi$ 0.29M      | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .179                  | .102 | .032 | .172 | .098 | .031 | .160                            | .092 | .029 | .148 | .086 | .027 | .138 | .080 | .026 |   |
| 2.0  | .170                  | .093 | .029 | .165 | .091 | .028 | .154                            | .086 | .027 | .144 | .081 | .025 | .135 | .077 | .024 |   |
| 3.0  | .162                  | .086 | .026 | .157 | .084 | .025 | .148                            | .080 | .024 | .139 | .076 | .023 | .132 | .073 | .023 |   |
| 4.0  | .153                  | .080 | .023 | .149 | .078 | .023 | .141                            | .075 | .022 | .134 | .072 | .022 | .127 | .069 | .021 |   |
| 5.0  | .146                  | .074 | .022 | .142 | .073 | .021 | .135                            | .070 | .021 | .129 | .068 | .020 | .123 | .066 | .020 |   |
| 6.0  | .139                  | .070 | .020 | .136 | .068 | .020 | .130                            | .066 | .019 | .124 | .064 | .019 | .119 | .063 | .019 |   |
| 7.0  | .132                  | .065 | .019 | .130 | .065 | .018 | .124                            | .063 | .018 | .119 | .061 | .018 | .115 | .060 | .018 |   |
| 8.0  | .127                  | .062 | .017 | .124 | .061 | .017 | .119                            | .060 | .017 | .115 | .058 | .017 | .111 | .057 | .017 |   |
| 9.0  | .121                  | .059 | .016 | .119 | .058 | .016 | .115                            | .057 | .016 | .111 | .056 | .016 | .107 | .054 | .016 |   |
| 10.0 | .116                  | .056 | .015 | .114 | .055 | .015 | .111                            | .054 | .015 | .107 | .053 | .015 | .104 | .052 | .015 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .171                  | .157 | .145 | .147 | .135 | .125 | .100                                       | .093 | .086 | .058 | .054 | .050 | .018 | .017 | .016 |   |
| 2.0  | .156                  | .132 | .113 | .134 | .114 | .097 | .092                                       | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 |   |
| 3.0  | .144                  | .114 | .090 | .123 | .098 | .078 | .085                                       | .068 | .055 | .049 | .040 | .032 | .016 | .013 | .011 |   |
| 4.0  | .133                  | .099 | .073 | .114 | .085 | .063 | .079                                       | .060 | .044 | .045 | .035 | .026 | .015 | .011 | .009 |   |
| 5.0  | .124                  | .087 | .060 | .107 | .075 | .052 | .074                                       | .053 | .037 | .043 | .031 | .022 | .014 | .010 | .007 |   |
| 6.0  | .117                  | .078 | .050 | .100 | .067 | .043 | .069                                       | .047 | .031 | .040 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .110                  | .070 | .042 | .095 | .061 | .037 | .066                                       | .043 | .026 | .038 | .025 | .016 | .012 | .008 | .005 |   |
| 8.0  | .105                  | .064 | .036 | .090 | .056 | .032 | .062                                       | .039 | .022 | .036 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .100                  | .059 | .031 | .086 | .051 | .027 | .059                                       | .036 | .019 | .035 | .021 | .012 | .011 | .007 | .004 |   |
| 10.0 | .095                  | .054 | .028 | .082 | .047 | .024 | .057                                       | .033 | .017 | .033 | .020 | .010 | .011 | .006 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

|                                                                                |               |                  |     |     |                                |               |                |                  |     |     |     |
|--------------------------------------------------------------------------------|---------------|------------------|-----|-----|--------------------------------|---------------|----------------|------------------|-----|-----|-----|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |               |                  |     |     |                                |               |                |                  |     |     |     |
| NAME: AOK oH                                                                   |               |                  |     |     | TYPE:LED                       |               |                | WEIGHT:6KG       |     |     |     |
| SPEC.:AOK-200W oH                                                              |               |                  |     |     | DIM.: $\phi 0.4 \times 0.141M$ |               |                | SERIAL No.:1     |     |     |     |
| MFR.: AOK                                                                      |               |                  |     |     | SUR.: $\phi 0.29M$             |               |                | 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                                                                  | 2H            | 7.1              | 8.1 | 7.4 | 8.2                            | 8.4           | 6.9            | 7.9              | 7.1 | 8.0 | 8.2 |
|                                                                                | 3H            | 7.3              | 8.2 | 7.6 | 8.4                            | 8.6           | 7.0            | 7.9              | 7.3 | 8.1 | 8.3 |
|                                                                                | 4H            | 7.4              | 8.2 | 7.7 | 8.5                            | 8.7           | 7.1            | 7.9              | 7.4 | 8.1 | 8.3 |
|                                                                                | 6H            | 7.5              | 8.3 | 7.8 | 8.5                            | 8.8           | 7.1            | 7.9              | 7.4 | 8.1 | 8.4 |
|                                                                                | 8H            | 7.5              | 8.2 | 7.8 | 8.5                            | 8.8           | 7.1            | 7.8              | 7.4 | 8.1 | 8.3 |
|                                                                                | 12H           | 7.5              | 8.2 | 7.8 | 8.4                            | 8.7           | 7.1            | 7.8              | 7.4 | 8.0 | 8.3 |
| 4H                                                                             | 2H            | 7.0              | 7.8 | 7.3 | 8.1                            | 8.3           | 6.8            | 7.6              | 7.1 | 7.9 | 8.1 |
|                                                                                | 3H            | 7.3              | 8.0 | 7.7 | 8.3                            | 8.6           | 7.0            | 7.7              | 7.4 | 8.0 | 8.3 |
|                                                                                | 4H            | 7.5              | 8.2 | 7.9 | 8.5                            | 8.8           | 7.2            | 7.8              | 7.5 | 8.1 | 8.4 |
|                                                                                | 6H            | 7.7              | 8.2 | 8.0 | 8.6                            | 8.9           | 7.3            | 7.8              | 7.6 | 8.2 | 8.5 |
|                                                                                | 8H            | 7.7              | 8.2 | 8.1 | 8.6                            | 8.9           | 7.3            | 7.8              | 7.7 | 8.1 | 8.5 |
|                                                                                | 12H           | 7.7              | 8.2 | 8.1 | 8.5                            | 8.9           | 7.2            | 7.7              | 7.6 | 8.1 | 8.5 |
| 8H                                                                             | 4H            | 7.5              | 8.0 | 7.9 | 8.4                            | 8.8           | 7.2            | 7.7              | 7.6 | 8.1 | 8.4 |
|                                                                                | 6H            | 7.7              | 8.1 | 8.1 | 8.5                            | 9.0           | 7.3            | 7.8              | 7.8 | 8.2 | 8.6 |
|                                                                                | 8H            | 7.8              | 8.1 | 8.2 | 8.6                            | 9.0           | 7.3            | 7.7              | 7.8 | 8.1 | 8.6 |
|                                                                                | 12H           | 7.8              | 8.1 | 8.2 | 8.5                            | 9.0           | 7.3            | 7.6              | 7.8 | 8.1 | 8.5 |
| 12H                                                                            | 4H            | 7.5              | 8.0 | 7.9 | 8.3                            | 8.7           | 7.2            | 7.6              | 7.6 | 8.0 | 8.4 |
|                                                                                | 6H            | 7.7              | 8.1 | 8.1 | 8.5                            | 8.9           | 7.3            | 7.7              | 7.8 | 8.1 | 8.5 |
|                                                                                | 8H            | 7.7              | 8.1 | 8.2 | 8.5                            | 9.0           | 7.3            | 7.7              | 7.8 | 8.1 | 8.6 |
| Variations with the observer position at spacings:                             |               |                  |     |     |                                |               |                |                  |     |     |     |
| S = 1.0H                                                                       | + 2.3 / - 1.9 |                  |     |     |                                | + 2.5 / - 2.2 |                |                  |     |     |     |
| 1.5H                                                                           | + 4.3 / - 1.8 |                  |     |     |                                | + 4.6 / - 2.1 |                |                  |     |     |     |
| 2.0H                                                                           | + 0.5 / - 0.3 |                  |     |     |                                | + 0.2 / - 0.3 |                |                  |     |     |     |

CIE Pub.117, 27529 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 11.5$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |

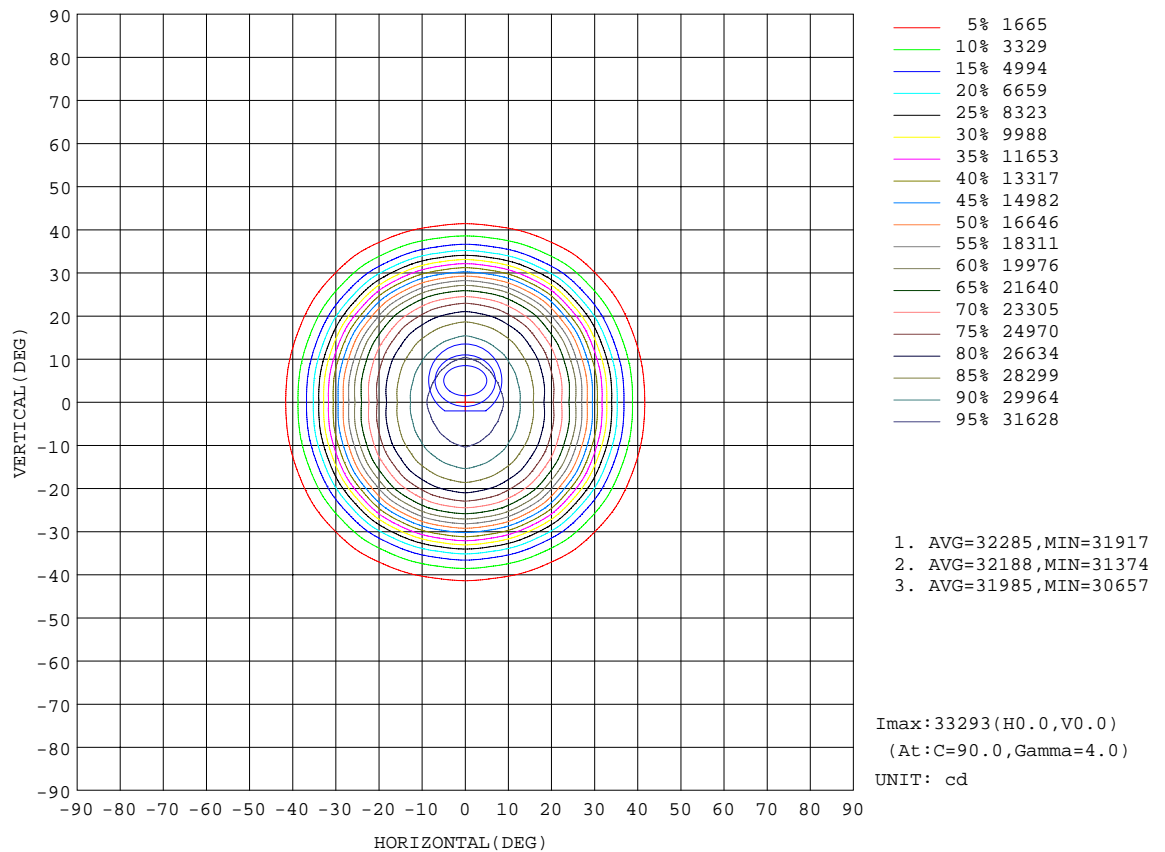
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 88                                                  | 81  | 78        | 87  | 81  | 78  | 86  | 81            | 78  | 74     |
| 0.80                             | 95                                                  | 89  | 86        | 94  | 89  | 85  | 93  | 88            | 85  | 81     |
| 1.00                             | 99                                                  | 94  | 90        | 98  | 93  | 90  | 97  | 93            | 89  | 85     |
| 1.25                             | 103                                                 | 98  | 95        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106                                                 | 101 | 98        | 105 | 100 | 97  | 102 | 99            | 96  | 92     |
| 2.00                             | 108                                                 | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 94     |
| 2.50                             | 110                                                 | 106 | 103       | 109 | 105 | 102 | 105 | 103           | 101 | 95     |
| 3.00                             | 112                                                 | 108 | 106       | 110 | 107 | 104 | 107 | 104           | 102 | 96     |
| 4.00                             | 114                                                 | 111 | 109       | 112 | 109 | 107 | 108 | 106           | 105 | 98     |
| 5.00                             | 115                                                 | 113 | 111       | 113 | 111 | 109 | 109 | 108           | 106 | 99     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

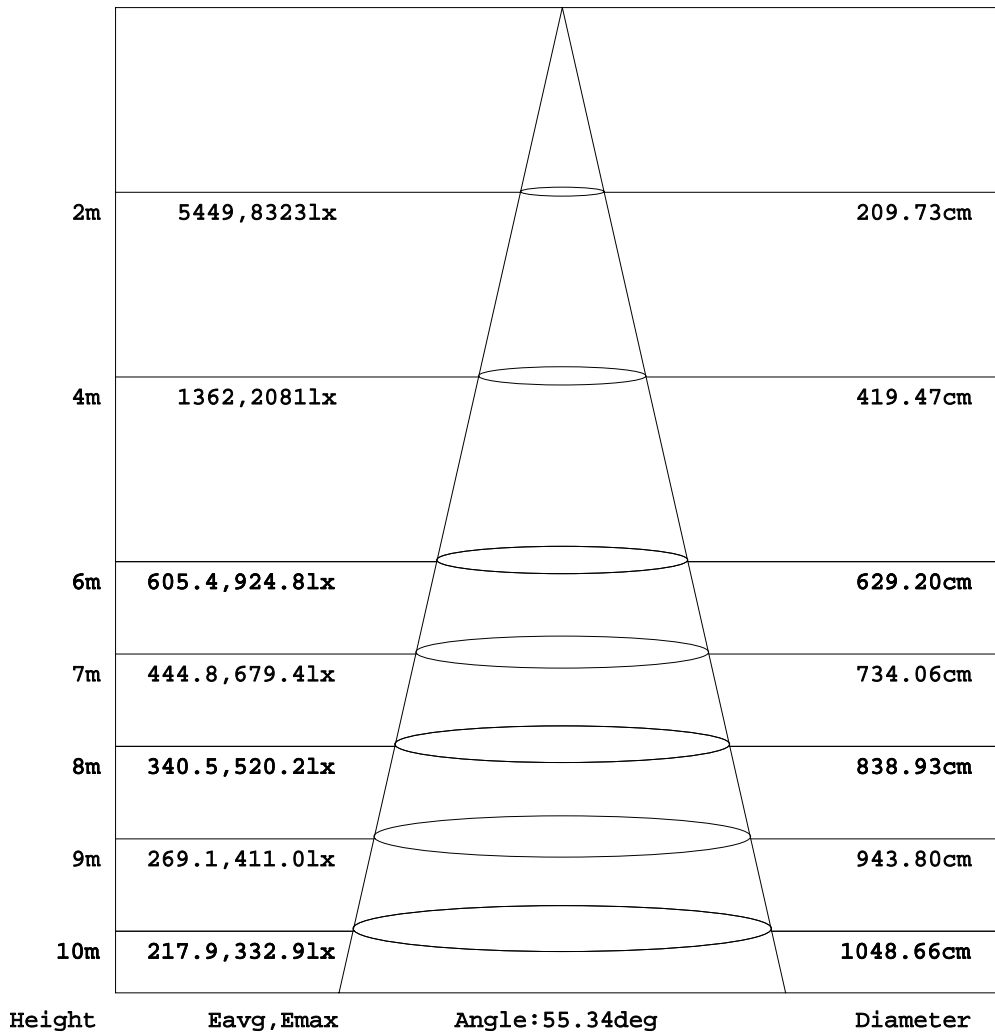
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:



## AAI Figure

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |

Flux out:19357 lm



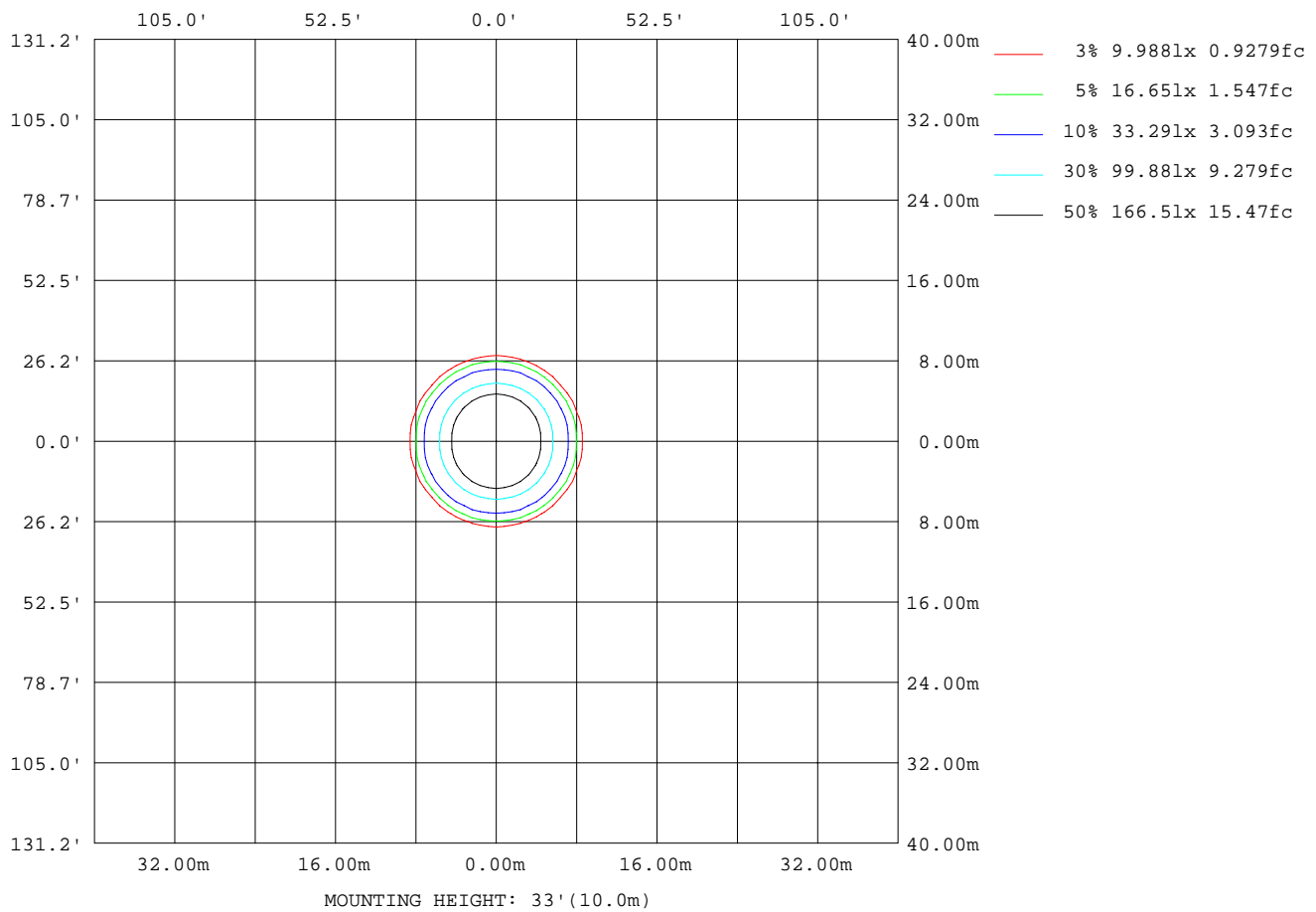
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.633m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |

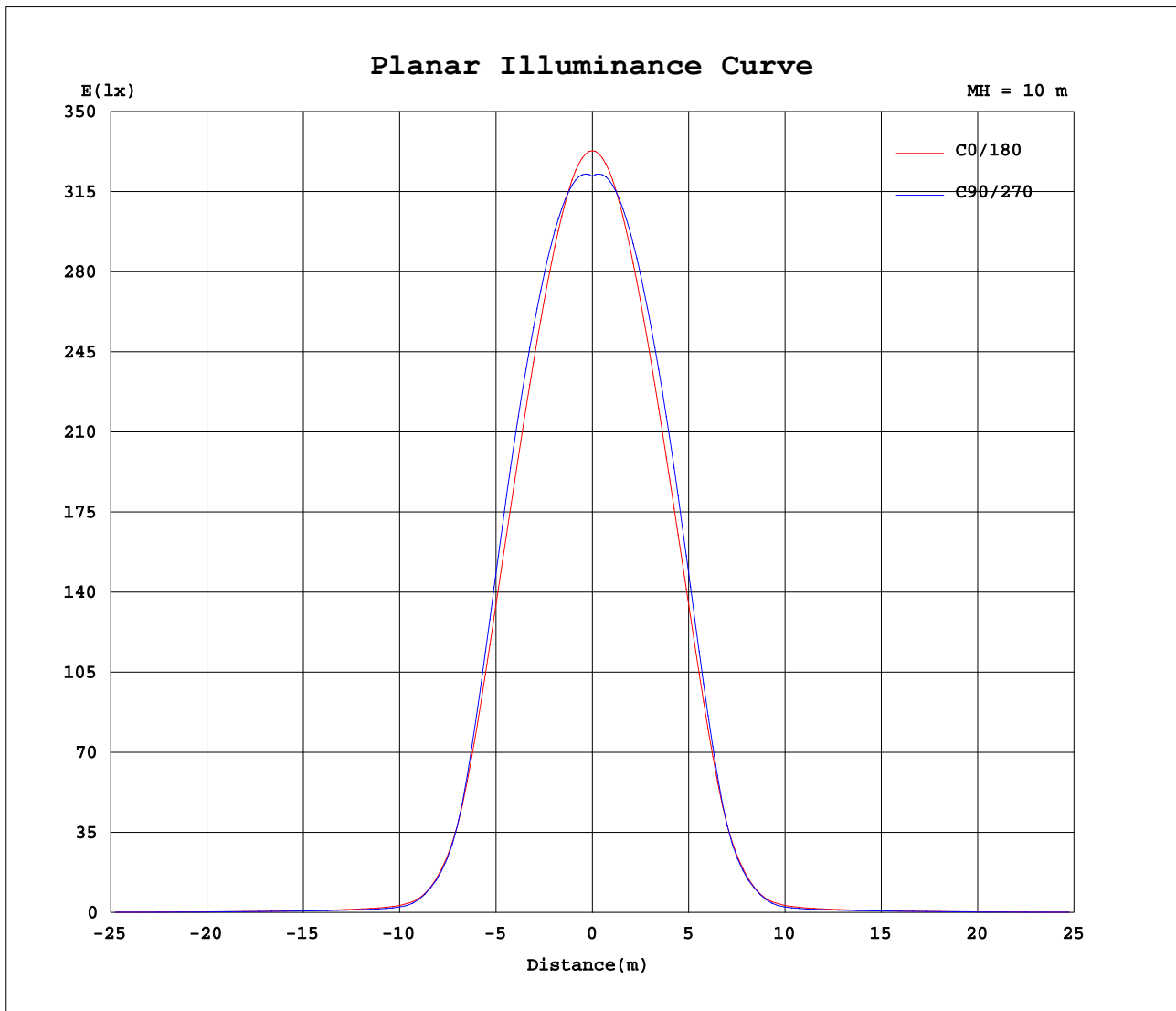
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 7912  |
| L_0~180 (75) av  | 7052  |
| L_0~180 (85) av  | 2851  |
| L_90~270 (65) av | 6814  |
| L_90~270 (75) av | 6004  |
| L_90~270 (85) av | 1788  |
| L_45 (65) av     | 7426  |
| L_45 (75) av     | 6717  |
| L_45 (85) av     | 2116  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.633m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.633m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |                                |                  |
|--------------------------------------------------------------------------------|--------------------------------|------------------|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |                                |                  |
| NAME: AOK oH                                                                   | TYPE:LED                       | WEIGHT:6KG       |
| SPEC.:AOK-200W oH                                                              | DIM.: $\phi 0.4 \times 0.141M$ | SERIAL No.:1     |
| MFR.: AOK                                                                      | SUR.: $\phi 0.29M$             | Shielding Angle: |

Table--1

UNIT:  $\times 10cd$ 

| C (DEG)<br>γ (DEG) | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 |
| 5                  | 3211 | 3222 | 3226 | 3234 | 3240 | 3252 | 3259 | 3267 | 3273 | 3282 | 3273 | 3267 | 3259 | 3252 | 3240 | 3234 | 3226 | 3222 | 3211 |
| 10                 | 3056 | 3078 | 3091 | 3112 | 3126 | 3152 | 3165 | 3184 | 3198 | 3217 | 3198 | 3184 | 3165 | 3152 | 3126 | 3112 | 3091 | 3078 | 3056 |
| 15                 | 2814 | 2853 | 2876 | 2912 | 2933 | 2971 | 2989 | 3015 | 3031 | 3058 | 3031 | 3015 | 2989 | 2971 | 2933 | 2912 | 2876 | 2853 | 2814 |
| 20                 | 2478 | 2534 | 2570 | 2617 | 2646 | 2694 | 2714 | 2740 | 2753 | 2780 | 2753 | 2740 | 2714 | 2694 | 2646 | 2617 | 2570 | 2534 | 2478 |
| 25                 | 2018 | 2084 | 2115 | 2171 | 2194 | 2251 | 2260 | 2281 | 2283 | 2300 | 2283 | 2281 | 2260 | 2251 | 2194 | 2171 | 2115 | 2084 | 2018 |
| 30                 | 1391 | 1448 | 1469 | 1514 | 1521 | 1567 | 1550 | 1559 | 1536 | 1561 | 1536 | 1559 | 1550 | 1567 | 1521 | 1514 | 1469 | 1448 | 1391 |
| 35                 | 676  | 708  | 701  | 722  | 705  | 731  | 699  | 703  | 679  | 701  | 679  | 703  | 699  | 731  | 705  | 722  | 701  | 708  | 676  |
| 40                 | 243  | 259  | 245  | 258  | 243  | 258  | 241  | 248  | 234  | 246  | 234  | 248  | 241  | 258  | 243  | 258  | 245  | 259  | 243  |
| 45                 | 85.8 | 85.3 | 81.5 | 79.8 | 75.5 | 74.2 | 70.1 | 69.6 | 68.3 | 70.0 | 68.3 | 69.6 | 70.1 | 74.2 | 75.5 | 79.8 | 81.5 | 85.3 | 85.8 |
| 50                 | 59.3 | 59.3 | 57.6 | 56.5 | 54.6 | 53.4 | 51.3 | 50.2 | 49.0 | 49.1 | 49.0 | 50.2 | 51.3 | 53.4 | 54.6 | 56.5 | 57.6 | 59.3 | 59.3 |
| 55                 | 50.7 | 50.6 | 49.6 | 48.8 | 47.7 | 47.1 | 45.8 | 44.7 | 43.7 | 43.3 | 43.7 | 44.7 | 45.8 | 47.1 | 47.7 | 48.8 | 49.6 | 50.6 | 50.7 |
| 60                 | 42.5 | 42.3 | 41.6 | 41.2 | 40.2 | 40.2 | 39.2 | 38.5 | 37.4 | 37.5 | 37.4 | 38.5 | 39.2 | 40.2 | 40.2 | 41.2 | 41.6 | 42.3 | 42.5 |
| 65                 | 33.4 | 33.2 | 32.5 | 32.2 | 31.4 | 31.3 | 30.4 | 29.8 | 28.9 | 28.8 | 28.9 | 29.8 | 30.4 | 31.3 | 31.4 | 32.2 | 32.5 | 33.2 | 33.4 |
| 70                 | 26.0 | 26.1 | 25.4 | 25.0 | 24.5 | 24.5 | 23.7 | 23.2 | 22.4 | 22.2 | 22.4 | 23.2 | 23.7 | 24.5 | 24.5 | 25.0 | 25.4 | 26.1 | 26.0 |
| 75                 | 18.3 | 18.4 | 17.8 | 17.6 | 17.4 | 17.3 | 16.8 | 16.2 | 15.6 | 15.5 | 15.6 | 16.2 | 16.8 | 17.3 | 17.4 | 17.6 | 17.8 | 18.4 | 18.3 |
| 80                 | 10.3 | 10.4 | 9.79 | 9.95 | 9.62 | 9.66 | 9.07 | 8.84 | 8.32 | 8.51 | 8.32 | 8.84 | 9.07 | 9.66 | 9.62 | 9.95 | 9.79 | 10.4 | 10.3 |
| 85                 | 2.48 | 2.56 | 2.14 | 2.14 | 1.80 | 1.90 | 1.61 | 1.64 | 1.42 | 1.56 | 1.42 | 1.64 | 1.61 | 1.90 | 1.80 | 2.14 | 2.14 | 2.56 | 2.48 |
| 90                 | 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 | 0.00 | 0.00 | 0.00 |
| 95                 | 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 | 0.00 | 0.00 | 0.00 |
| 100                | 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 | 0.00 | 0.00 | 0.00 |
| 105                | 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 | 0.00 | 0.00 | 0.00 |
| 110                | 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 | 0.00 | 0.00 | 0.00 |
| 115                | 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 | 0.00 | 0.00 | 0.00 |
| 120                | 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 | 0.00 | 0.00 | 0.00 |
| 125                | 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 | 0.00 | 0.00 | 0.00 |
| 130                | 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 | 0.00 | 0.00 | 0.00 |
| 135                | 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 | 0.00 | 0.00 | 0.00 |
| 140                | 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 | 0.00 | 0.00 | 0.00 |
| 145                | 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 | 0.00 | 0.00 | 0.00 |
| 150                | 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 | 0.00 | 0.00 | 0.00 |
| 155                | 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 | 0.00 | 0.00 | 0.00 |
| 160                | 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 | 0.00 | 0.00 | 0.00 |
| 165                | 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 | 0.00 | 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 | 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 | 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 | 0.00 | 0.00 | 0.00 |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.633m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |                  |  |  |
|--------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|------------------|--|--|
| Test:U:220.1V I:0.9634A P:199.4W PF:0.9730 Freq:49.99Hz Lamp Flux:27529.2x1 lm |  |  |  |  |  |  |  |  |                                |  |  |  |  |  |                  |  |  |
| NAME: AOK oH                                                                   |  |  |  |  |  |  |  |  | TYPE:LED                       |  |  |  |  |  | WEIGHT:6KG       |  |  |
| SPEC.:AOK-200W oH                                                              |  |  |  |  |  |  |  |  | DIM.: $\phi 0.4 \times 0.141M$ |  |  |  |  |  | SERIAL No.:1     |  |  |
| MFR.: AOK                                                                      |  |  |  |  |  |  |  |  | SUR.: $\phi 0.29M$             |  |  |  |  |  | Shielding Angle: |  |  |

Table--2

UNIT:  $\times 10cd$ 

| C (DEG)<br>γ (DEG) | 190  | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  | 300  | 310  | 320  | 330  | 340  | 350  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0                  | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 | 3262 |  |  |
| 5                  | 3222 | 3226 | 3234 | 3240 | 3252 | 3259 | 3267 | 3273 | 3282 | 3273 | 3267 | 3259 | 3252 | 3240 | 3234 | 3226 | 3222 |  |  |
| 10                 | 3078 | 3091 | 3112 | 3126 | 3152 | 3165 | 3184 | 3198 | 3217 | 3198 | 3184 | 3165 | 3152 | 3126 | 3112 | 3091 | 3078 |  |  |
| 15                 | 2853 | 2876 | 2912 | 2933 | 2971 | 2989 | 3015 | 3031 | 3058 | 3031 | 3015 | 2989 | 2971 | 2933 | 2912 | 2876 | 2853 |  |  |
| 20                 | 2534 | 2570 | 2617 | 2646 | 2694 | 2714 | 2740 | 2753 | 2780 | 2753 | 2740 | 2714 | 2694 | 2646 | 2617 | 2570 | 2534 |  |  |
| 25                 | 2084 | 2115 | 2171 | 2194 | 2251 | 2260 | 2281 | 2283 | 2300 | 2283 | 2281 | 2260 | 2251 | 2194 | 2171 | 2115 | 2084 |  |  |
| 30                 | 1448 | 1469 | 1514 | 1521 | 1567 | 1550 | 1559 | 1536 | 1561 | 1536 | 1559 | 1550 | 1567 | 1521 | 1514 | 1469 | 1448 |  |  |
| 35                 | 708  | 701  | 722  | 705  | 731  | 699  | 703  | 679  | 701  | 679  | 703  | 699  | 731  | 705  | 722  | 701  | 708  |  |  |
| 40                 | 259  | 245  | 258  | 243  | 258  | 241  | 248  | 234  | 246  | 234  | 248  | 241  | 258  | 243  | 258  | 245  | 259  |  |  |
| 45                 | 85.3 | 81.5 | 79.8 | 75.5 | 74.2 | 70.1 | 69.6 | 68.3 | 70.0 | 68.3 | 69.6 | 70.1 | 74.2 | 75.5 | 79.8 | 81.5 | 85.3 |  |  |
| 50                 | 59.3 | 57.6 | 56.5 | 54.6 | 53.4 | 51.3 | 50.2 | 49.0 | 49.1 | 49.0 | 50.2 | 51.3 | 53.4 | 54.6 | 56.5 | 57.6 | 59.3 |  |  |
| 55                 | 50.6 | 49.6 | 48.8 | 47.7 | 47.1 | 45.8 | 44.7 | 43.7 | 43.3 | 43.7 | 44.7 | 45.8 | 47.1 | 47.7 | 48.8 | 49.6 | 50.6 |  |  |
| 60                 | 42.3 | 41.6 | 41.2 | 40.2 | 40.2 | 39.2 | 38.5 | 37.4 | 37.5 | 37.4 | 38.5 | 39.2 | 40.2 | 40.2 | 41.2 | 41.6 | 42.3 |  |  |
| 65                 | 33.2 | 32.5 | 32.2 | 31.4 | 31.3 | 30.4 | 29.8 | 28.9 | 28.8 | 28.9 | 29.8 | 30.4 | 31.3 | 31.4 | 32.2 | 32.5 | 33.2 |  |  |
| 70                 | 26.1 | 25.4 | 25.0 | 24.5 | 24.5 | 23.7 | 23.2 | 22.4 | 22.2 | 22.4 | 23.2 | 23.7 | 24.5 | 24.5 | 25.0 | 25.4 | 26.1 |  |  |
| 75                 | 18.4 | 17.8 | 17.6 | 17.4 | 17.3 | 16.8 | 16.2 | 15.6 | 15.5 | 15.6 | 16.2 | 16.8 | 17.3 | 17.4 | 17.6 | 17.8 | 18.4 |  |  |
| 80                 | 10.4 | 9.79 | 9.95 | 9.62 | 9.66 | 9.07 | 8.84 | 8.32 | 8.51 | 8.32 | 8.84 | 9.07 | 9.66 | 9.62 | 9.95 | 9.79 | 10.4 |  |  |
| 85                 | 2.56 | 2.14 | 2.14 | 1.80 | 1.90 | 1.61 | 1.64 | 1.42 | 1.56 | 1.42 | 1.64 | 1.61 | 1.90 | 1.80 | 2.14 | 2.14 | 2.56 |  |  |
| 90                 | 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 | 0.00 |  |  |
| 95                 | 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 | 0.00 |  |  |
| 100                | 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 | 0.00 |  |  |
| 105                | 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 | 0.00 |  |  |
| 110                | 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 | 0.00 |  |  |
| 115                | 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 | 0.00 |  |  |
| 120                | 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 | 0.00 |  |  |
| 125                | 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 | 0.00 |  |  |
| 130                | 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 | 0.00 |  |  |
| 135                | 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 | 0.00 |  |  |
| 140                | 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 | 0.00 |  |  |
| 145                | 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 | 0.00 |  |  |
| 150                | 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 | 0.00 |  |  |
| 155                | 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 | 0.00 |  |  |
| 160                | 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 | 0.00 |  |  |
| 165                | 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 | 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 | 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 | 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 | 0.00 |  |  |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.633m [K=1.0000]  
 Remarks: