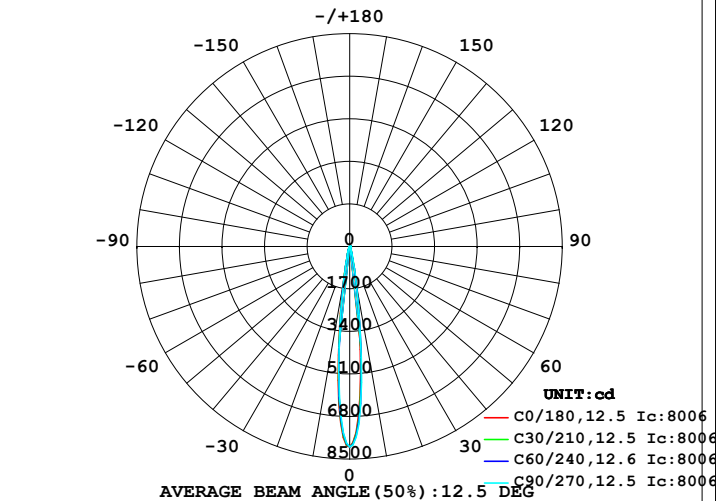


## LUMINAIRE PHOTOMETRIC TEST REPORT

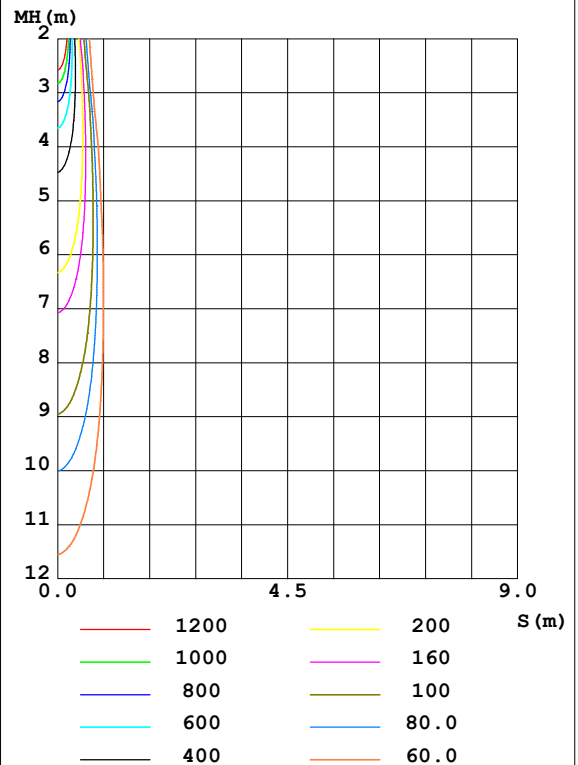
|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |

| DATA OF LAMP     |             | PHOTOMETRIC DATA Eff: 63.76 lm/W |        |                   |          |
|------------------|-------------|----------------------------------|--------|-------------------|----------|
| MODEL            | 3000K CRI90 | I <sub>max</sub> (cd)            | 8006   | S/MH(C0/180)      | 0.22     |
| NOMINAL POWER(W) | 9           | LOR(%)                           | 100.0  | S/MH(C90/270)     | 0.21     |
| RATED VOLTAGE(V) | 220-240     | TOTAL FLUX(lm)                   | 581.52 | η UP,DN(C0-180)   | 0.0,51.4 |
| NOMINAL FLUX(lm) | 581.525     | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.0,48.6 |
| LAMPS INSIDE     | 1           | η up(%)                          | 0.0    | CIBSE SHR NOM     | 0.00     |
| TEST VOLTAGE(V)  | 230         | η down(%)                        | 100.0  | CIBSE SHR MAX     | 1.00     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-11-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [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       | 1398                  | 1584   | 1598   | 1556   | 1494   | 1356   | 1410   | 1327   | 0- 10    | 364.8       | 364.8        | 62.7, 62.7 |
| 20       | 187.8                 | 197.5  | 202.7  | 202.1  | 199.4  | 195.9  | 203.3  | 191.7  | 10- 20   | 139.6       | 504.4        | 86.7, 86.7 |
| 30       | 51.78                 | 54.83  | 54.67  | 54.95  | 55.06  | 55.50  | 54.97  | 52.89  | 20- 30   | 48.10       | 552.5        | 95, 95     |
| 40       | 16.07                 | 18.51  | 19.57  | 18.66  | 18.11  | 18.75  | 19.29  | 16.80  | 30- 40   | 20.87       | 573.4        | 98.6, 98.6 |
| 50       | 2.459                 | 3.553  | 2.991  | 2.911  | 2.875  | 3.795  | 3.106  | 2.818  | 40- 50   | 6.998       | 580.4        | 99.8, 99.8 |
| 60       | 0.2669                | 0.2886 | 0.3884 | 0.3239 | 0.3463 | 0.4542 | 0.5382 | 0.4281 | 50- 60   | 1.104       | 581.5        | 100, 100   |
| 70       | 0                     | 0      | 0      | 0      | 0      | 0.0000 | 0      | 0      | 60- 70   | 0.0513      | 581.5        | 100, 100   |
| 80       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 70- 80   | 0.0000      | 581.5        | 100, 100   |
| 90       | 0.0508                | 0.0469 | 0.0470 | 0.0235 | 0      | 0      | 0      | 0      | 80- 90   | 0.0042      | 581.5        | 100, 100   |
| 100      |                       |        |        |        |        |        |        |        | 90-100   |             |              |            |
| 110      |                       |        |        |        |        |        |        |        | 100-110  |             |              |            |
| 120      |                       |        |        |        |        |        |        |        | 110-120  |             |              |            |
| 130      |                       |        |        |        |        |        |        |        | 120-130  |             |              |            |
| 140      |                       |        |        |        |        |        |        |        | 130-140  |             |              |            |
| 150      |                       |        |        |        |        |        |        |        | 140-150  |             |              |            |
| 160      |                       |        |        |        |        |        |        |        | 150-160  |             |              |            |
| 170      |                       |        |        |        |        |        |        |        | 160-170  |             |              |            |
| 180      |                       |        |        |        |        |        |        |        | 170-180  |             |              |            |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 578.16 lm

%lum = 99.4%

%lamp = 99.4%

Conical surface Flux(120deg): 581.47 lm

%lum = 100.0%

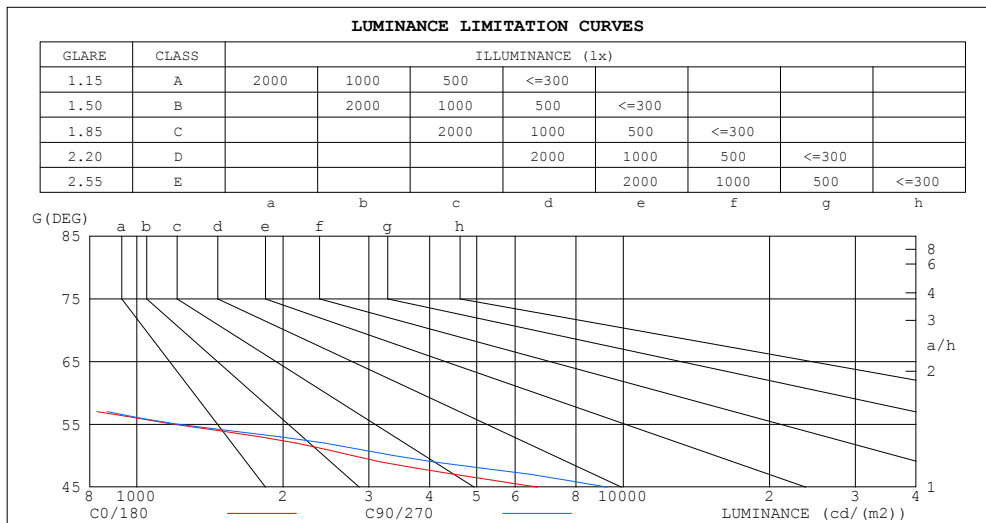
%lamp = 100.0%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-11-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 0      | 0       |
| 80                | 0      | 0       |
| 75                | 0      | 0       |
| 70                | 0      | 0       |
| 65                | 0      | 0       |
| 60                | 386    | 561     |
| 55                | 1182   | 1207    |
| 50                | 2768   | 3362    |
| 45                | 6659   | 9269    |

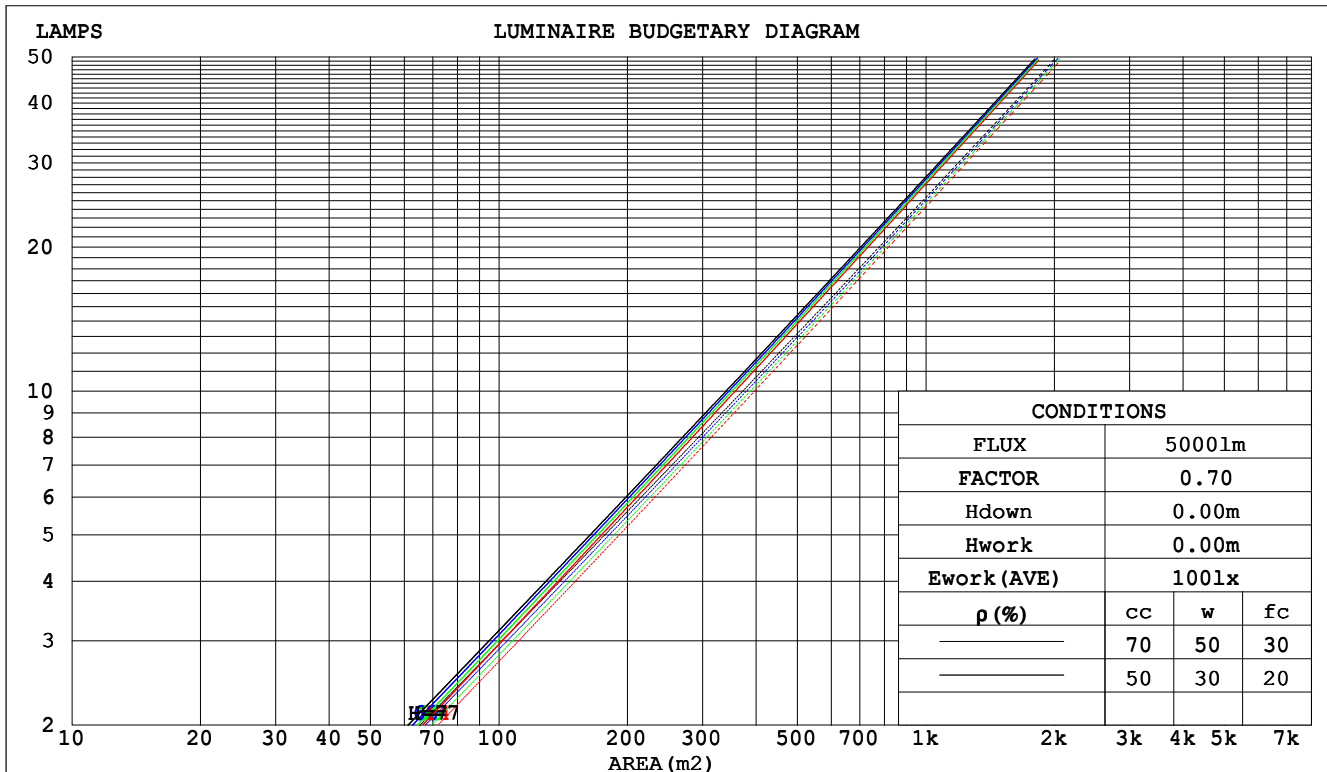
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0    |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0  | 1.14                  | 1.12 | 1.11 | 1.12 | 1.10 | 1.09 | 1.08                            | 1.07 | 1.06 | 1.04 | 1.03 | 1.03 | 1.01 | 1.00 | .00  | .98  |
| 2.0  | 1.10                  | 1.07 | 1.05 | 1.08 | 1.06 | 1.04 | 1.05                            | 1.03 | 1.01 | 1.02 | 1.01 | .99  | .99  | .98  | .97  | .96  |
| 3.0  | 1.06                  | 1.03 | 1.00 | 1.05 | 1.02 | .00  | 1.02                            | .00  | .98  | .00  | .98  | .97  | .98  | .96  | .95  | .94  |
| 4.0  | 1.03                  | .99  | .97  | 1.02 | .99  | .96  | .00                             | .97  | .95  | .98  | .96  | .94  | .96  | .95  | .93  | .92  |
| 5.0  | 1.00                  | .97  | .94  | .99  | .96  | .94  | .98                             | .95  | .93  | .96  | .94  | .92  | .95  | .93  | .92  | .91  |
| 6.0  | .98                   | .94  | .92  | .97  | .94  | .92  | .96                             | .93  | .91  | .95  | .92  | .90  | .94  | .92  | .90  | .89  |
| 7.0  | .96                   | .92  | .90  | .95  | .92  | .90  | .94                             | .91  | .89  | .93  | .91  | .89  | .92  | .90  | .88  | .88  |
| 8.0  | .94                   | .90  | .88  | .93  | .90  | .88  | .92                             | .90  | .88  | .92  | .89  | .87  | .91  | .89  | .87  | .86  |
| 9.0  | .92                   | .89  | .87  | .92  | .89  | .86  | .91                             | .88  | .86  | .90  | .88  | .86  | .90  | .87  | .86  | .85  |
| 10.0 | .90                   | .87  | .85  | .90  | .87  | .85  | .90                             | .87  | .85  | .89  | .87  | .85  | .88  | .86  | .85  | .84  |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-11-09

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

### WEC AND CCEC

|  |  |  |  |         |  |  |                  |  |
|--|--|--|--|---------|--|--|------------------|--|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |  |  |  |         |  |  |                  |  |
| NAME: ALST45-09G30-S   |  |  |  | TYPE:   |  |  | WEIGHT:          |  |
| SPEC.:   |  |  |  | DIM.:   |  |  | SERIAL No.:      |  |
| MFR.:  |  |  |  | SUR.:38 |  |  | 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  | .119                  | .068 | .021 | .112 | .064 | .020 | .100                            | .057 | .018 | .089 | .051 | .016 | .078 | .045 | .015 |   |  |
| 2.0  | .109                  | .060 | .018 | .103 | .057 | .018 | .093                            | .052 | .016 | .084 | .047 | .015 | .076 | .043 | .013 |   |  |
| 3.0  | .100                  | .053 | .016 | .096 | .051 | .015 | .087                            | .047 | .014 | .080 | .044 | .013 | .073 | .040 | .012 |   |  |
| 4.0  | .093                  | .048 | .014 | .089 | .047 | .014 | .082                            | .044 | .013 | .076 | .041 | .012 | .070 | .038 | .012 |   |  |
| 5.0  | .086                  | .044 | .013 | .083 | .043 | .012 | .077                            | .040 | .012 | .072 | .038 | .011 | .067 | .036 | .011 |   |  |
| 6.0  | .081                  | .041 | .012 | .078 | .040 | .011 | .073                            | .038 | .011 | .069 | .036 | .010 | .064 | .034 | .010 |   |  |
| 7.0  | .076                  | .038 | .011 | .074 | .037 | .010 | .070                            | .035 | .010 | .066 | .034 | .010 | .062 | .032 | .009 |   |  |
| 8.0  | .072                  | .035 | .010 | .070 | .034 | .010 | .066                            | .033 | .009 | .063 | .032 | .009 | .059 | .031 | .009 |   |  |
| 9.0  | .068                  | .033 | .009 | .066 | .032 | .009 | .063                            | .031 | .009 | .060 | .030 | .009 | .057 | .029 | .008 |   |  |
| 10.0 | .065                  | .031 | .009 | .063 | .031 | .009 | .060                            | .030 | .008 | .058 | .029 | .008 | .055 | .028 | .008 |   |  |

| 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  | .167                  | .158 | .149 | .143 | .135 | .129 | .098                                       | .093 | .089 | .056 | .054 | .052 | .018 | .017 | .017 |   |
| 2.0  | .148                  | .133 | .120 | .127 | .114 | .104 | .087                                       | .079 | .072 | .050 | .046 | .042 | .016 | .015 | .014 |   |
| 3.0  | .132                  | .113 | .098 | .113 | .098 | .085 | .078                                       | .068 | .060 | .045 | .040 | .035 | .014 | .013 | .012 |   |
| 4.0  | .118                  | .097 | .082 | .101 | .084 | .071 | .070                                       | .059 | .050 | .040 | .034 | .030 | .013 | .011 | .010 |   |
| 5.0  | .107                  | .085 | .069 | .092 | .073 | .060 | .063                                       | .051 | .042 | .037 | .030 | .025 | .012 | .010 | .008 |   |
| 6.0  | .097                  | .075 | .058 | .084 | .065 | .051 | .058                                       | .045 | .036 | .033 | .027 | .021 | .011 | .009 | .007 |   |
| 7.0  | .089                  | .066 | .050 | .077 | .057 | .044 | .053                                       | .040 | .031 | .031 | .024 | .018 | .010 | .008 | .006 |   |
| 8.0  | .082                  | .059 | .043 | .071 | .051 | .038 | .049                                       | .036 | .027 | .028 | .021 | .016 | .009 | .007 | .005 |   |
| 9.0  | .076                  | .053 | .038 | .065 | .046 | .033 | .045                                       | .032 | .023 | .026 | .019 | .014 | .009 | .006 | .005 |   |
| 10.0 | .071                  | .048 | .033 | .061 | .042 | .029 | .042                                       | .029 | .021 | .025 | .017 | .012 | .008 | .006 | .004 |   |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

|  |                  |      |      |      |         |                |      |                  |      |      |
|--|------------------|------|------|------|---------|----------------|------|------------------|------|------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |                  |      |      |      |         |                |      |                  |      |      |
| NAME: ALST45-09G30-S   |                  |      |      |      | TYPE:   |                |      | WEIGHT:          |      |      |
| SPEC.:   |                  |      |      |      | DIM.:   |                |      | SERIAL No.:      |      |      |
| MFR.:  |                  |      |      |      | SUR.:38 |                |      | 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  | 11.2             | 11.7 | 11.4 | 11.8 | 12.0    | 11.8           | 12.3 | 12.0             | 12.5 | 12.6 |
| 3H   | 11.0             | 11.5 | 11.3 | 11.7 | 11.9    | 11.7           | 12.2 | 11.9             | 12.3 | 12.5 |
| 4H   | 11.0             | 11.4 | 11.2 | 11.6 | 11.8    | 11.6           | 12.1 | 11.8             | 12.3 | 12.5 |
| 6H   | 10.9             | 11.3 | 11.1 | 11.6 | 11.8    | 11.5           | 12.0 | 11.8             | 12.2 | 12.4 |
| 8H   | 10.8             | 11.3 | 11.1 | 11.5 | 11.8    | 11.5           | 11.9 | 11.7             | 12.1 | 12.4 |
| 12H  | 10.8             | 11.2 | 11.1 | 11.5 | 11.7    | 11.4           | 11.8 | 11.7             | 12.1 | 12.4 |
| 4H 2H  | 11.0             | 11.4 | 11.2 | 11.6 | 11.8    | 11.6           | 12.1 | 11.8             | 12.3 | 12.5 |
| 3H   | 10.8             | 11.2 | 11.1 | 11.5 | 11.7    | 11.4           | 11.8 | 11.7             | 12.1 | 12.4 |
| 4H   | 10.7             | 11.1 | 11.0 | 11.4 | 11.7    | 11.3           | 11.7 | 11.6             | 12.0 | 12.3 |
| 6H   | 10.6             | 10.9 | 11.0 | 11.3 | 11.6    | 11.2           | 11.6 | 11.6             | 11.9 | 12.2 |
| 8H   | 10.5             | 10.9 | 10.9 | 11.2 | 11.6    | 11.2           | 11.5 | 11.5             | 11.8 | 12.2 |
| 12H  | 10.5             | 10.8 | 10.9 | 11.1 | 11.5    | 11.1           | 11.4 | 11.5             | 11.8 | 12.1 |
| 8H 4H  | 10.5             | 10.9 | 10.9 | 11.2 | 11.6    | 11.2           | 11.5 | 11.5             | 11.8 | 12.2 |
| 6H   | 10.4             | 10.7 | 10.8 | 11.1 | 11.5    | 11.0           | 11.3 | 11.5             | 11.7 | 12.1 |
| 8H   | 10.3             | 10.6 | 10.8 | 11.0 | 11.4    | 11.0           | 11.2 | 11.4             | 11.6 | 12.1 |
| 12H  | 10.3             | 10.5 | 10.7 | 10.9 | 11.4    | 10.9           | 11.1 | 11.4             | 11.6 | 12.0 |
| 12H 4H   | 10.5             | 10.8 | 10.9 | 11.1 | 11.5    | 11.1           | 11.4 | 11.5             | 11.8 | 12.1 |
| 6H   | 10.3             | 10.6 | 10.8 | 11.0 | 11.4    | 11.0           | 11.2 | 11.4             | 11.6 | 12.1 |
| 8H   | 10.3             | 10.5 | 10.7 | 10.9 | 11.4    | 10.9           | 11.1 | 11.4             | 11.6 | 12.0 |
| Variations with the observer position at spacings:                         |                  |      |      |      |         |                |      |                  |      |      |
| S = 1.0H   | + 2.8 / -16.0    |      |      |      |         | + 3.0 / -17.0  |      |                  |      |      |
| 1.5H   | + 4.9 / -12.3    |      |      |      |         | + 4.9 / -13.3  |      |                  |      |      |
| 2.0H   | + 6.5 / -33.0    |      |      |      |         | + 6.9 / - 1.5  |      |                  |      |      |

CIE Pub.117, 581.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.9)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |

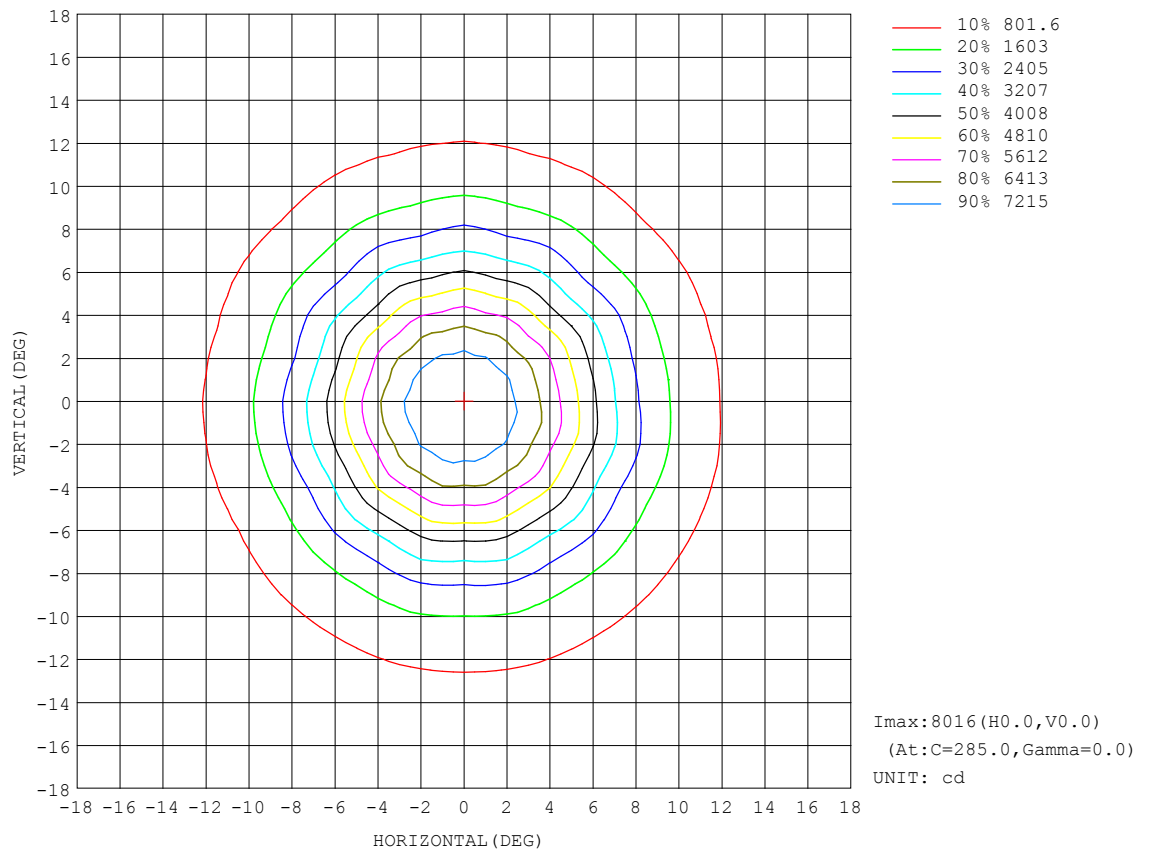
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 91   | 85  | 82        | 90  | 85  | 81  | 89  | 84            | 81  | 78     |
| 0.80                             | 98   | 92  | 89        | 97  | 92  | 89  | 96  | 92            | 89  | 85     |
| 1.00                             | 102  | 97  | 93        | 101 | 96  | 93  | 99  | 96            | 92  | 89     |
| 1.25                             | 105  | 100 | 97        | 104 | 100 | 97  | 102 | 99            | 96  | 92     |
| 1.50                             | 108  | 103 | 100       | 106 | 103 | 100 | 104 | 101           | 99  | 95     |
| 2.00                             | 110  | 106 | 103       | 108 | 105 | 102 | 106 | 103           | 101 | 96     |
| 2.50                             | 111  | 108 | 105       | 110 | 107 | 104 | 107 | 104           | 102 | 97     |
| 3.00                             | 113  | 110 | 107       | 111 | 108 | 106 | 108 | 105           | 104 | 98     |
| 4.00                             | 114  | 112 | 110       | 112 | 110 | 109 | 109 | 107           | 106 | 99     |
| 5.00                             | 116  | 114 | 112       | 114 | 112 | 110 | 110 | 108           | 107 | 100    |
| ROOM INDEX                       | UF (total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |



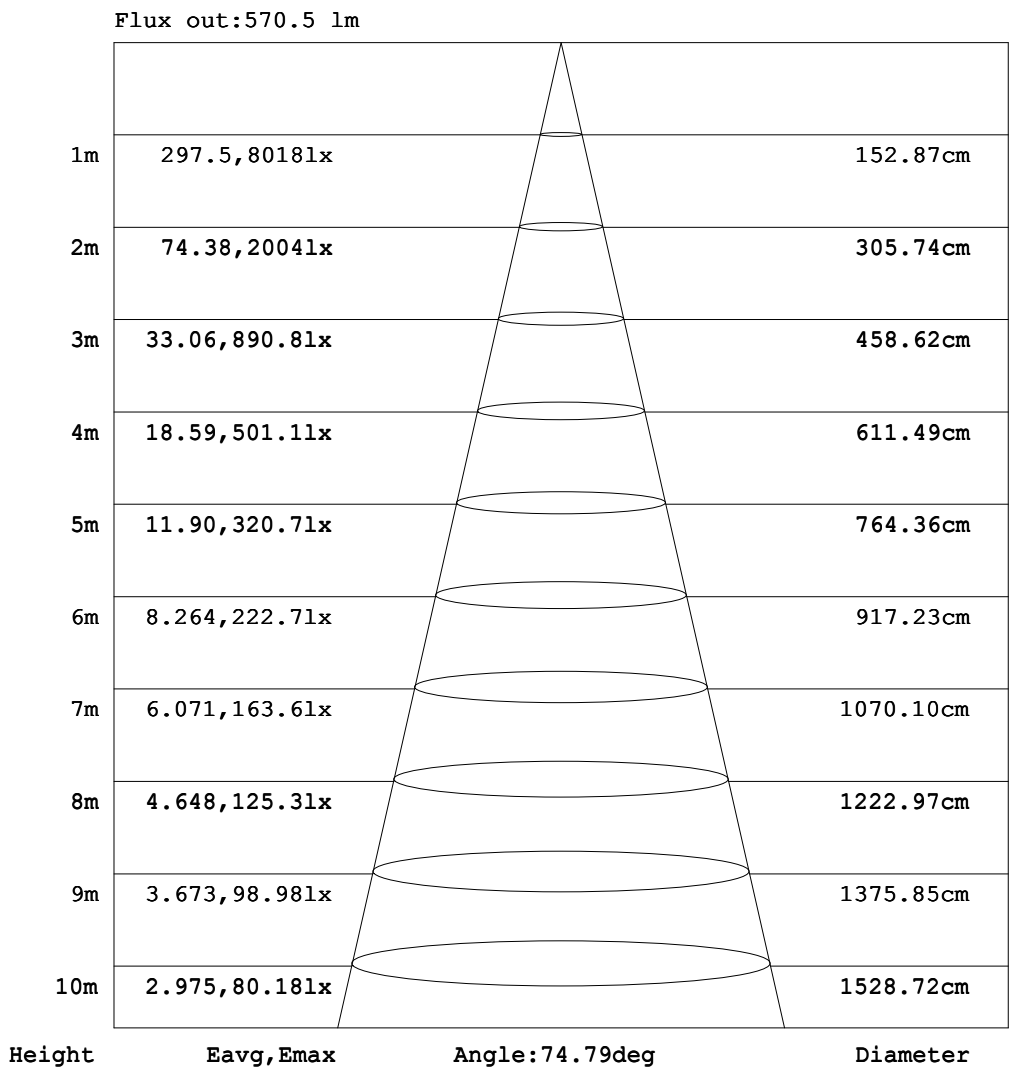
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:



### AAI Figure

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |



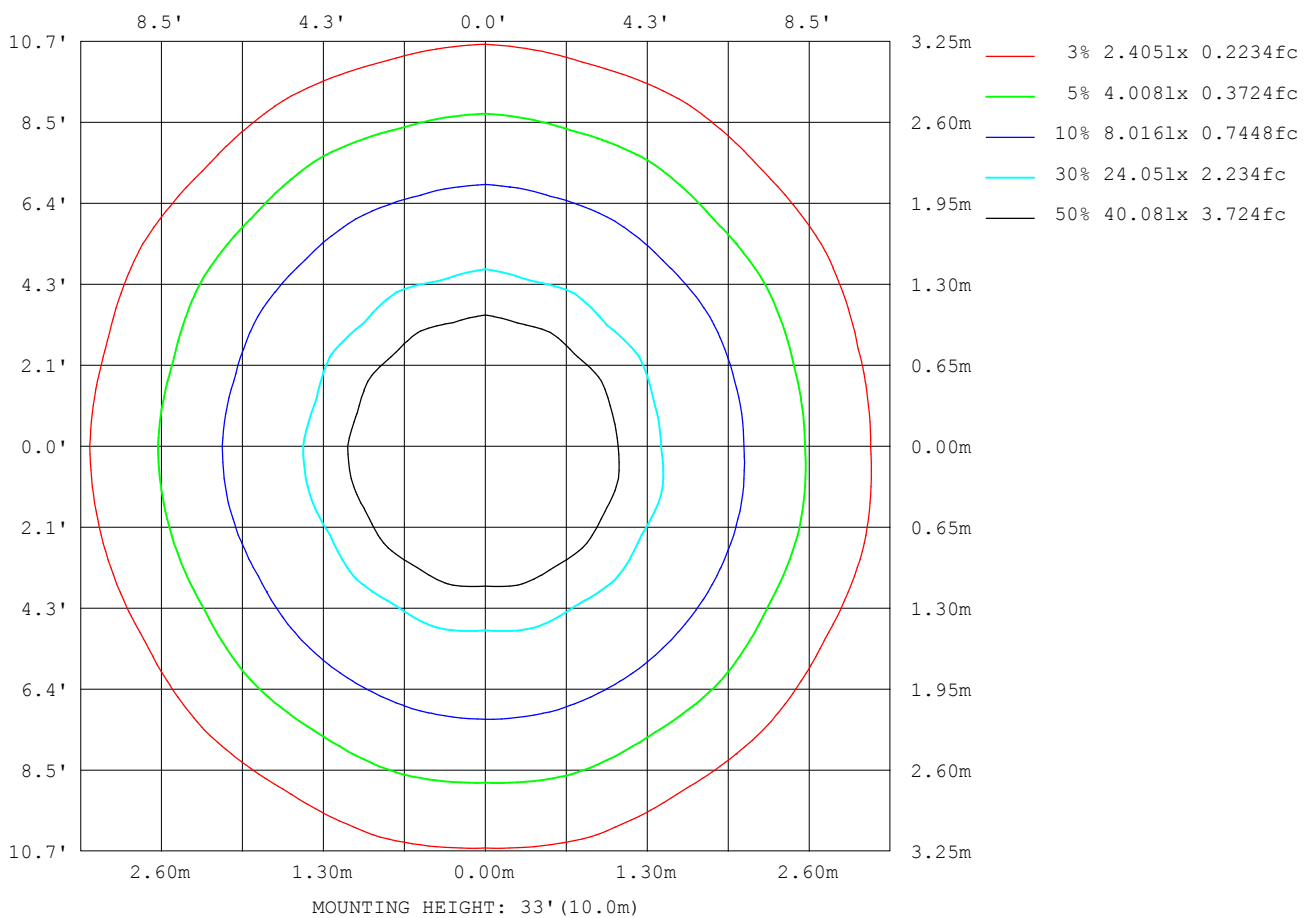
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

# ISOLUX DIAGRAM

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## LED Avg.L Report

|  |         |                  |
|--|---------|------------------|
| Test:U:225.1V I:0.0410A P:9.120W PF:0.9680 Freq:0Hz Lamp Flux:581.525x1 lm |         |                  |
| NAME: ALST45-09G30-S   | TYPE:   | WEIGHT:          |
| SPEC.:   | DIM.:   | SERIAL No.:      |
| MFR.:  | SUR.:38 | Shielding Angle: |

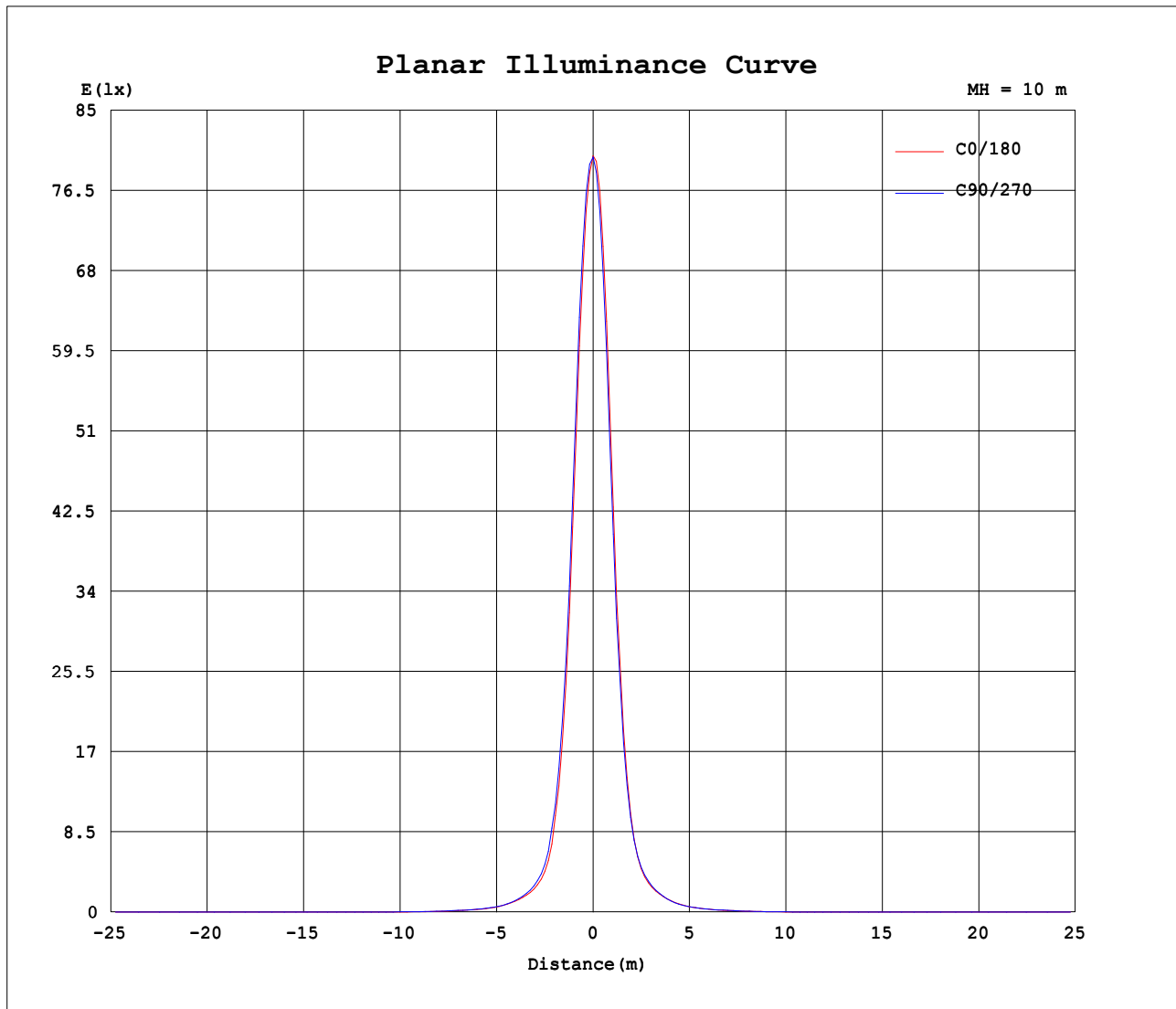
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 0     |
| L_0~180 (75) av  | 0     |
| L_0~180 (85) av  | 0     |
| L_90~270 (65) av | 0     |
| L_90~270 (75) av | 0     |
| L_90~270 (85) av | 0     |
| L_45 (65) av     | 0     |
| L_45 (75) av     | 3     |
| L_45 (85) av     | 0     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-11-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: AE  
Test Date: 2020-11-09

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.240m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```