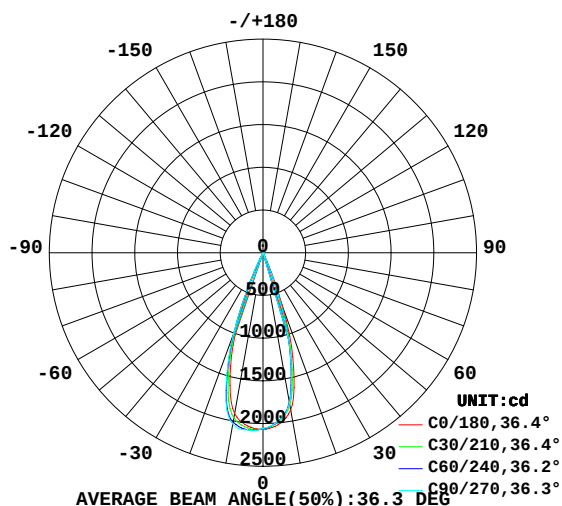


# LUMINAIRE PHOTOMETRIC TEST REPORT

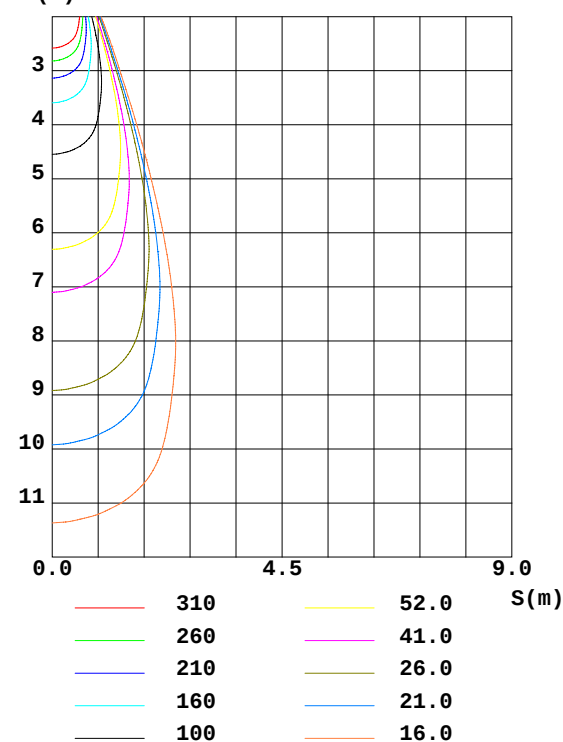
|                                    |        |                   |
|------------------------------------|--------|-------------------|
| NAME:CL-Pendant50-R 3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                              | SPEC.: | SERIAL No.:       |
| MFR.:                              | SUR.:  | PROTECTION ANGLE: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 66.13 lm/W |        |                    |           |
|------------------|---------|----------------------------------|--------|--------------------|-----------|
| MODEL            |         | I <sub>max</sub> (cd)            | 2085   | S/MH(C0/180)       | 0.53      |
| NOMINAL POWER(W) | 10      | LOR(%)                           | 100.0  | S/MH(C90/270)      | 0.50      |
| RATED VOLTAGE(V) | 24      | TOTAL FLUX(lm)                   | 682.43 | η UP, DN(C0-180)   | 0.2, 44.6 |
| NOMINAL FLUX(lm) | 682.429 | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.2, 55.0 |
| LAMPS INSIDE     | 1       | η up(%)                          | 0.4    | CIBSE SHR NOM      | 0.50      |
| TEST VOLTAGE(V)  | 24      | η down(%)                        | 99.6   | CIBSE SHR MAX      | 0.55      |

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:tang  
Test Date:2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [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       | 1867                  | 1790   | 1785   | 1828   | 1911   | 1992   | 2035   | 1960   | 0- 10    | 189.7       | 189.7        | 27.8, 27.8 |
| 20       | 676.5                 | 543.2  | 527.1  | 663.2  | 838.4  | 970.9  | 1009   | 870.7  | 10- 20   | 383.2       | 572.9        | 83.9, 83.9 |
| 30       | 10.47                 | 9.192  | 9.231  | 10.45  | 14.71  | 16.86  | 19.40  | 16.60  | 20- 30   | 98.80       | 671.7        | 98.4, 98.4 |
| 40       | 3.778                 | 3.625  | 3.764  | 3.951  | 4.051  | 4.035  | 4.359  | 4.200  | 30- 40   | 4.096       | 675.8        | 99, 99     |
| 50       | 2.059                 | 1.947  | 2.019  | 2.173  | 2.193  | 2.159  | 2.342  | 2.263  | 40- 50   | 2.274       | 678.0        | 99.4, 99.4 |
| 60       | 0.8554                | 0.7412 | 0.7825 | 0.9955 | 0.9990 | 1.010  | 1.062  | 0.9790 | 50- 60   | 1.357       | 679.4        | 99.6, 99.6 |
| 70       | 0                     | 0      | 0      | 0.0002 | 0      | 0.0144 | 0.0194 | 0.0001 | 60- 70   | 0.3886      | 679.8        | 99.6, 99.6 |
| 80       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 70- 80   | 0.0002      | 679.8        | 99.6, 99.6 |
| 90       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90   | 0           | 679.8        | 99.6, 99.6 |
| 100      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100   | 0           | 679.8        | 99.6, 99.6 |
| 110      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110  | 0           | 679.8        | 99.6, 99.6 |
| 120      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120  | 0           | 679.8        | 99.6, 99.6 |
| 130      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130  | 0           | 679.8        | 99.6, 99.6 |
| 140      | 0.1549                | 0.2453 | 0.2792 | 0.1934 | 0.1801 | 0.0992 | 0.0703 | 0.1464 | 130-140  | 0.0204      | 679.8        | 99.6, 99.6 |
| 150      | 1.277                 | 1.446  | 1.493  | 1.333  | 1.186  | 1.013  | 0.9759 | 1.119  | 140-150  | 0.3866      | 680.2        | 99.7, 99.7 |
| 160      | 2.839                 | 3.018  | 3.064  | 2.876  | 2.706  | 2.483  | 2.443  | 2.589  | 150-160  | 0.8940      | 681.1        | 99.8, 99.8 |
| 170      | 3.996                 | 4.110  | 4.158  | 4.030  | 3.871  | 3.709  | 3.708  | 3.823  | 160-170  | 0.9386      | 682.0        | 99.9, 99.9 |
| 180      | 4.648                 | 4.596  | 4.592  | 4.599  | 4.653  | 4.585  | 4.587  | 4.592  | 170-180  | 0.4031      | 682.4        | 100, 100   |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

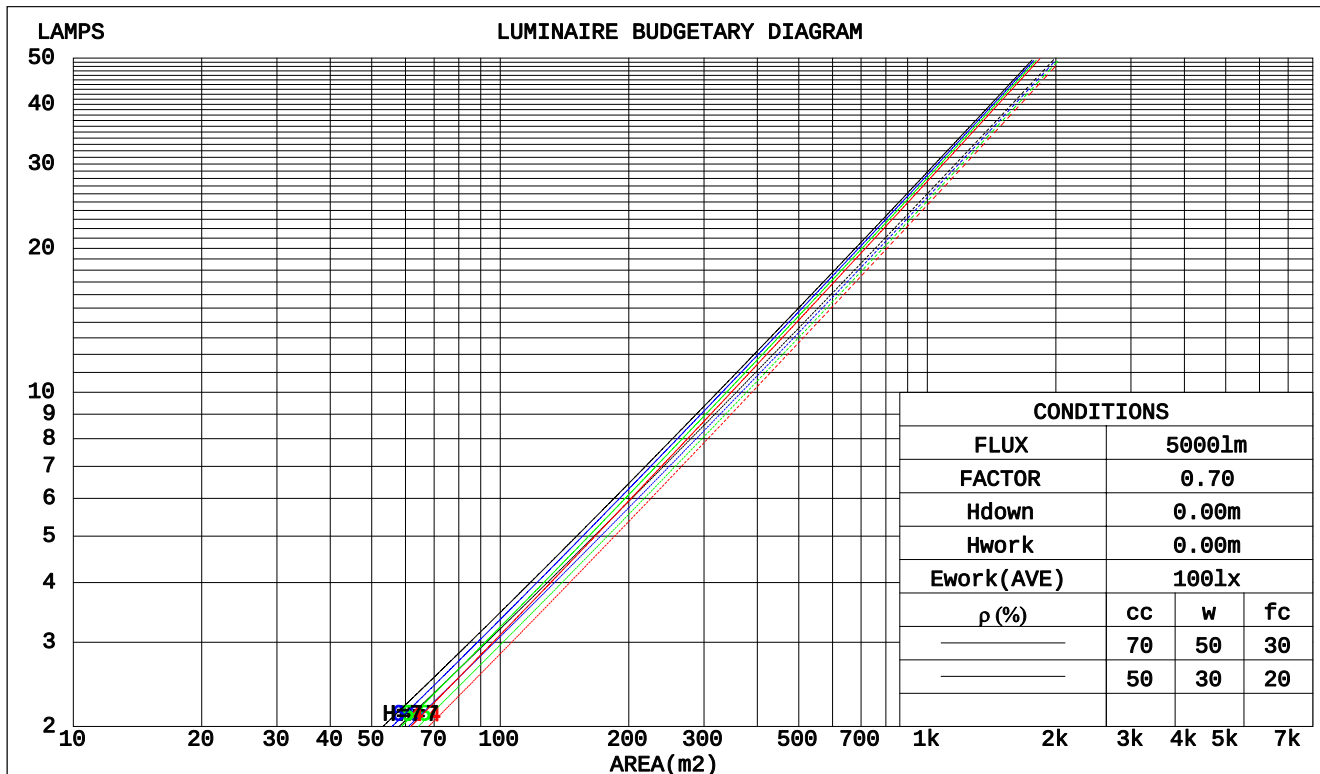
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

| $\rho_{cc}$ | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$ | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR         | RCR:Room Cavity Ratio |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16                            | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0         | 1.13                  | 1.11 | 1.09 | 1.11                            | 1.09 | 1.07 | 1.07 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 | .99  | .99  | .98  | .96 |
| 2.0         | 1.08                  | 1.05 | 1.02 | 1.06                            | 1.03 | 1.01 | 1.03 | 1.00 | .99  | .00  | .98  | .96  | .97  | .96  | .94  | .93 |
| 3.0         | 1.03                  | .99  | .96  | 1.02                            | .98  | .96  | .99  | .96  | .94  | .97  | .95  | .93  | .95  | .93  | .91  | .90 |
| 4.0         | .99                   | .95  | .92  | .98                             | .94  | .91  | .96  | .93  | .90  | .94  | .91  | .89  | .92  | .90  | .88  | .87 |
| 5.0         | .95                   | .91  | .88  | .94                             | .90  | .88  | .93  | .89  | .87  | .91  | .88  | .86  | .90  | .87  | .85  | .84 |
| 6.0         | .92                   | .88  | .85  | .91                             | .87  | .84  | .90  | .86  | .84  | .89  | .86  | .83  | .87  | .85  | .83  | .82 |
| 7.0         | .89                   | .85  | .82  | .88                             | .84  | .81  | .87  | .84  | .81  | .86  | .83  | .81  | .85  | .82  | .80  | .79 |
| 8.0         | .86                   | .82  | .79  | .85                             | .82  | .79  | .85  | .81  | .78  | .84  | .80  | .78  | .83  | .80  | .78  | .77 |
| 9.0         | .83                   | .79  | .76  | .83                             | .79  | .76  | .82  | .79  | .76  | .81  | .78  | .76  | .81  | .78  | .76  | .75 |
| 10.0        | .81                   | .77  | .74  | .80                             | .77  | .74  | .80  | .76  | .74  | .79  | .76  | .74  | .79  | .76  | .73  | .73 |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:tang  
Test Date:2022-04-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

WEC AND CCEC

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

| ρ <sub>CC</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| ρ <sub>W</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| ρ <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0             |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0             | .137                  | .078 | .025 | .131 | .075 | .024 | .118                            | .068 | .022 | .106 | .061 | .020 | .096 | .055 | .018 |   |  |
| 2.0             | .127                  | .070 | .021 | .122 | .067 | .021 | .111                            | .062 | .019 | .102 | .057 | .018 | .093 | .052 | .017 |   |  |
| 3.0             | .118                  | .063 | .019 | .114 | .061 | .018 | .105                            | .057 | .017 | .097 | .053 | .016 | .090 | .050 | .015 |   |  |
| 4.0             | .111                  | .058 | .017 | .107 | .056 | .017 | .100                            | .053 | .016 | .093 | .050 | .015 | .087 | .047 | .014 |   |  |
| 5.0             | .105                  | .053 | .015 | .102 | .052 | .015 | .095                            | .050 | .015 | .089 | .047 | .014 | .084 | .045 | .013 |   |  |
| 6.0             | .099                  | .050 | .014 | .097 | .049 | .014 | .091                            | .047 | .014 | .086 | .045 | .013 | .081 | .043 | .013 |   |  |
| 7.0             | .095                  | .047 | .013 | .092 | .046 | .013 | .087                            | .044 | .013 | .083 | .043 | .012 | .079 | .041 | .012 |   |  |
| 8.0             | .090                  | .044 | .012 | .088 | .043 | .012 | .084                            | .042 | .012 | .080 | .041 | .012 | .076 | .039 | .011 |   |  |
| 9.0             | .087                  | .042 | .012 | .085 | .041 | .012 | .081                            | .040 | .011 | .077 | .039 | .011 | .074 | .038 | .011 |   |  |
| 10.0            | .083                  | .040 | .011 | .081 | .039 | .011 | .078                            | .038 | .011 | .075 | .037 | .011 | .072 | .036 | .010 |   |  |

| $\rho_{CC}$ | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .193                  | .193 | .193 | .165 | .165 | .165 | .113                                       | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 |   |
| 1.0         | .171                  | .161 | .151 | .147 | .138 | .130 | .100                                       | .095 | .090 | .058 | .055 | .052 | .018 | .018 | .017 |   |
| 2.0         | .153                  | .136 | .121 | .131 | .117 | .105 | .090                                       | .081 | .073 | .052 | .047 | .043 | .017 | .015 | .014 |   |
| 3.0         | .138                  | .116 | .099 | .119 | .100 | .086 | .081                                       | .070 | .060 | .047 | .041 | .035 | .015 | .013 | .012 |   |
| 4.0         | .126                  | .101 | .082 | .108 | .087 | .071 | .074                                       | .061 | .050 | .043 | .036 | .030 | .014 | .012 | .010 |   |
| 5.0         | .115                  | .089 | .069 | .099 | .077 | .060 | .068                                       | .054 | .042 | .040 | .031 | .025 | .013 | .010 | .008 |   |
| 6.0         | .107                  | .079 | .059 | .092 | .068 | .051 | .063                                       | .048 | .036 | .037 | .028 | .021 | .012 | .009 | .007 |   |
| 7.0         | .099                  | .071 | .050 | .085 | .061 | .044 | .059                                       | .043 | .031 | .034 | .025 | .019 | .011 | .008 | .006 |   |
| 8.0         | .093                  | .064 | .044 | .080 | .055 | .038 | .055                                       | .039 | .027 | .032 | .023 | .016 | .010 | .008 | .005 |   |
| 9.0         | .087                  | .058 | .039 | .075 | .050 | .034 | .052                                       | .035 | .024 | .030 | .021 | .014 | .010 | .007 | .005 |   |
| 10.0        | .082                  | .053 | .034 | .071 | .046 | .030 | .049                                       | .033 | .021 | .029 | .019 | .013 | .009 | .006 | .004 |   |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:tang  
Test Date:2022-04-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

|                                                    |     |     |     |     |     |                  |       |       |       |       |                   |       |       |       |       |
|----------------------------------------------------|-----|-----|-----|-----|-----|------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| NAME: Pendant50-R-3000k-Ra90-36D                   |     |     |     |     |     | TYPE:            |       |       |       |       | WEIGHT:           |       |       |       |       |
| DIM.:                                              |     |     |     |     |     | SPEC.:           |       |       |       |       | SERIAL No.:       |       |       |       |       |
| MFR.: VD                                           |     |     |     |     |     | SUR.:            |       |       |       |       | PROTECTION 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                                      |     |     |     |     |     | -14.8            | -14.2 | -14.6 | -14.0 | -13.9 | -14.8             | -14.1 | -14.6 | -14.0 | -13.8 |
| 3H                                                 |     |     |     |     |     | -14.9            | -14.3 | -14.7 | -14.1 | -13.9 | -14.9             | -14.3 | -14.7 | -14.1 | -13.9 |
| 4H                                                 |     |     |     |     |     | -15.0            | -14.4 | -14.8 | -14.2 | -14.0 | -15.0             | -14.4 | -14.7 | -14.2 | -14.0 |
| 6H                                                 |     |     |     |     |     | -15.1            | -14.6 | -14.8 | -14.3 | -14.1 | -15.1             | -14.5 | -14.8 | -14.3 | -14.0 |
| 8H                                                 |     |     |     |     |     | -15.1            | -14.6 | -14.8 | -14.4 | -14.1 | -15.1             | -14.6 | -14.8 | -14.3 | -14.1 |
| 12H                                                |     |     |     |     |     | -15.2            | -14.7 | -14.9 | -14.4 | -14.1 | -15.2             | -14.7 | -14.8 | -14.4 | -14.1 |
| 4H 2H                                              |     |     |     |     |     | -14.8            | -14.3 | -14.6 | -14.1 | -13.8 | -14.8             | -14.2 | -14.5 | -14.0 | -13.8 |
| 3H                                                 |     |     |     |     |     | -15.0            | -14.5 | -14.7 | -14.2 | -13.9 | -15.0             | -14.4 | -14.6 | -14.2 | -13.9 |
| 4H                                                 |     |     |     |     |     | -15.1            | -14.6 | -14.7 | -14.3 | -14.0 | -15.1             | -14.6 | -14.7 | -14.3 | -14.0 |
| 6H                                                 |     |     |     |     |     | -15.2            | -14.8 | -14.8 | -14.4 | -14.1 | -15.2             | -14.7 | -14.8 | -14.4 | -14.1 |
| 8H                                                 |     |     |     |     |     | -15.2            | -14.9 | -14.8 | -14.5 | -14.1 | -15.2             | -14.8 | -14.8 | -14.5 | -14.1 |
| 12H                                                |     |     |     |     |     | -15.3            | -14.9 | -14.9 | -14.6 | -14.2 | -15.3             | -14.9 | -14.9 | -14.5 | -14.1 |
| 8H 4H                                              |     |     |     |     |     | -15.2            | -14.9 | -14.8 | -14.5 | -14.1 | -15.2             | -14.8 | -14.8 | -14.5 | -14.1 |
| 6H                                                 |     |     |     |     |     | -15.4            | -15.0 | -14.9 | -14.6 | -14.2 | -15.3             | -15.0 | -14.9 | -14.6 | -14.2 |
| 8H                                                 |     |     |     |     |     | -15.4            | -15.1 | -15.0 | -14.7 | -14.3 | -15.4             | -15.1 | -14.9 | -14.7 | -14.2 |
| 12H                                                |     |     |     |     |     | -15.5            | -15.2 | -15.0 | -14.8 | -14.3 | -15.5             | -15.2 | -15.0 | -14.8 | -14.3 |
| 12H 4H                                             |     |     |     |     |     | -15.3            | -14.9 | -14.9 | -14.6 | -14.2 | -15.3             | -14.9 | -14.9 | -14.5 | -14.1 |
| 6H                                                 |     |     |     |     |     | -15.4            | -15.1 | -15.0 | -14.7 | -14.3 | -15.4             | -15.1 | -14.9 | -14.7 | -14.2 |
| 8H                                                 |     |     |     |     |     | -15.5            | -15.2 | -15.0 | -14.8 | -14.3 | -15.5             | -15.2 | -15.0 | -14.8 | -14.3 |
| Variations with the observer position at spacings: |     |     |     |     |     |                  |       |       |       |       |                   |       |       |       |       |
| S = 1.0H                                           |     |     |     |     |     | + 1.4 / - 2.3    |       |       |       |       | + 1.3 / - 2.3     |       |       |       |       |
| 1.5H                                               |     |     |     |     |     | + 1.5 / - 1.3    |       |       |       |       | + 1.2 / - 1.1     |       |       |       |       |
| 2.0H                                               |     |     |     |     |     | + 2.6 / - 6.1    |       |       |       |       | + 2.6 / - 5.1     |       |       |       |       |

CIE Pub.117 Corrected 682.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.3)

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:tang  
Test Date:2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

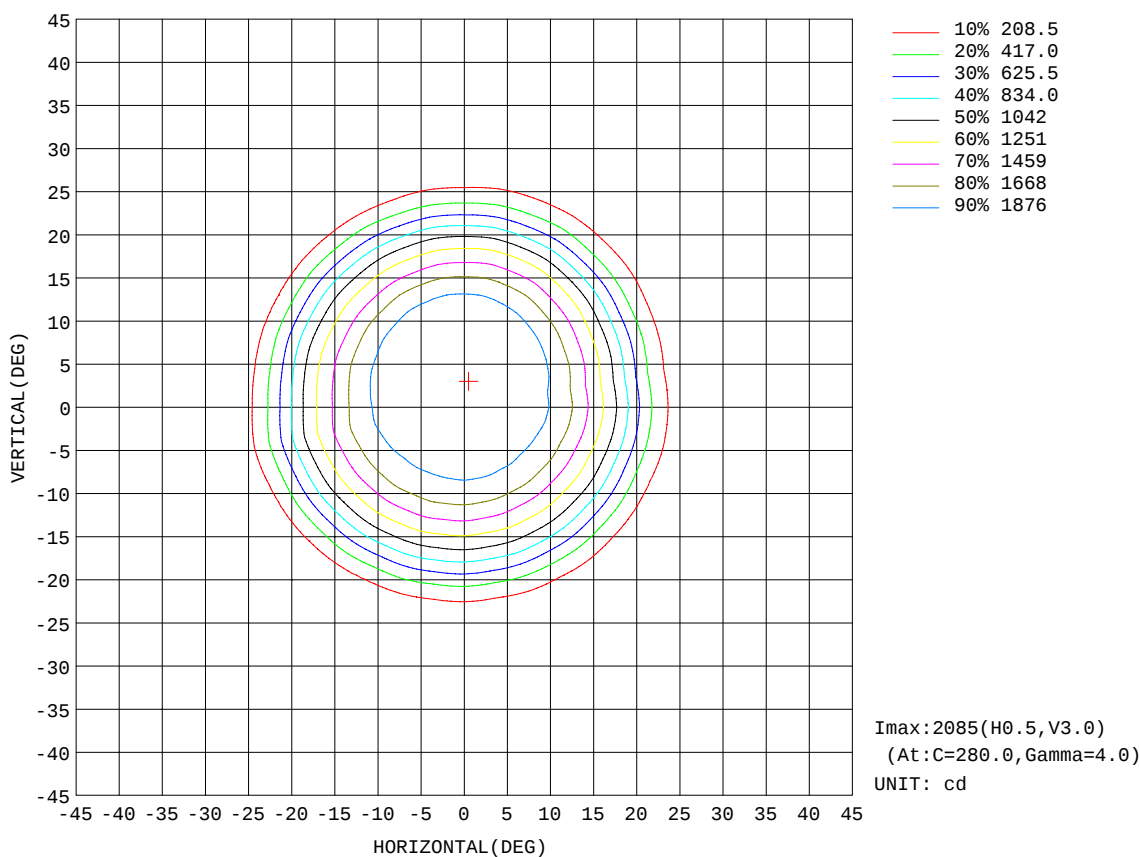
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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  | 82  | 90  | 85            | 82  | 78     |
| 0.80                             | 98                                                  | 93  | 89        | 97  | 92  | 89  | 96  | 92            | 89  | 86     |
| 1.00                             | 102                                                 | 97  | 93        | 101 | 96  | 93  | 99  | 96            | 93  | 89     |
| 1.25                             | 105                                                 | 101 | 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 | 96     |
| 3.00                             | 113                                                 | 109 | 107       | 111 | 108 | 106 | 107 | 105           | 104 | 97     |
| 4.00                             | 114                                                 | 112 | 110       | 112 | 110 | 109 | 109 | 107           | 106 | 99     |
| 5.00                             | 116                                                 | 114 | 112       | 113 | 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: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

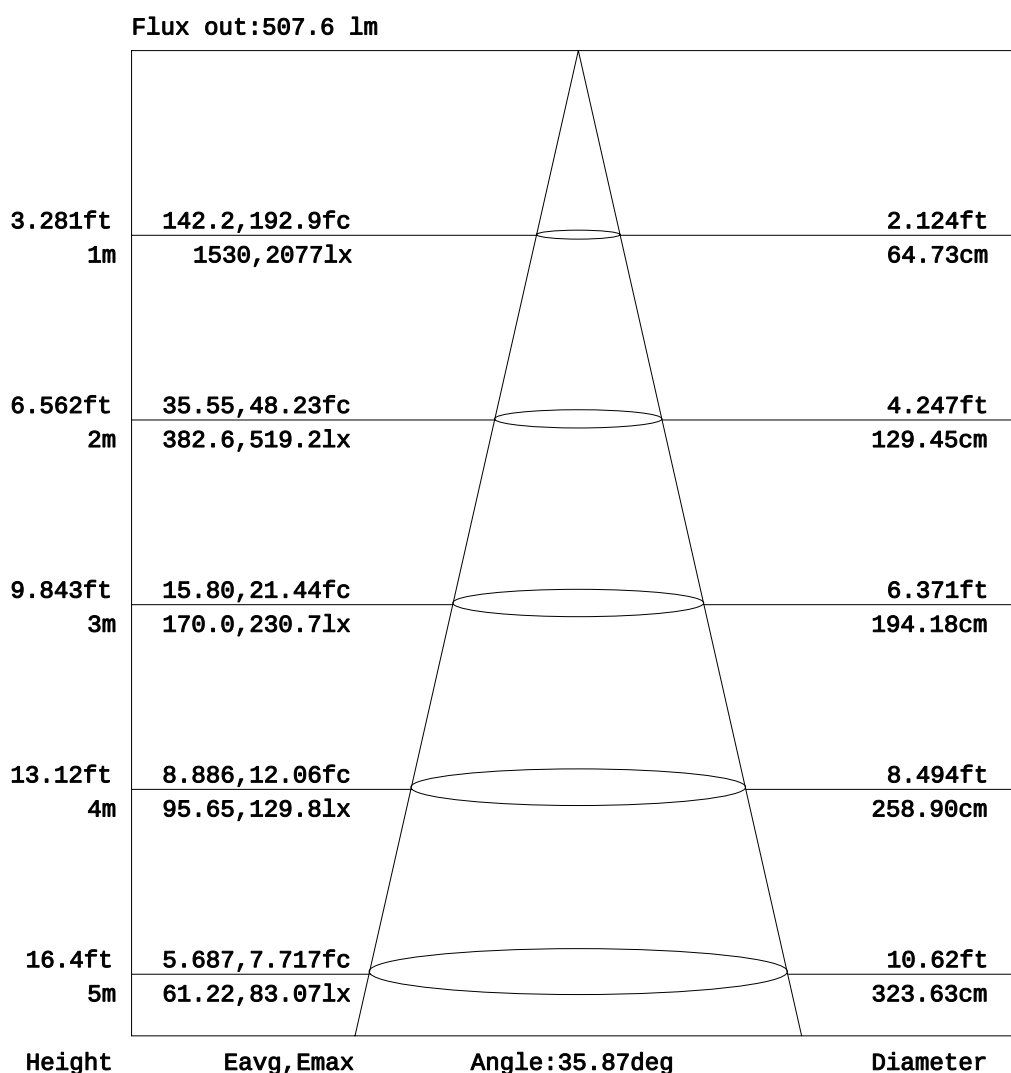


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks:

### AAI Figure

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |



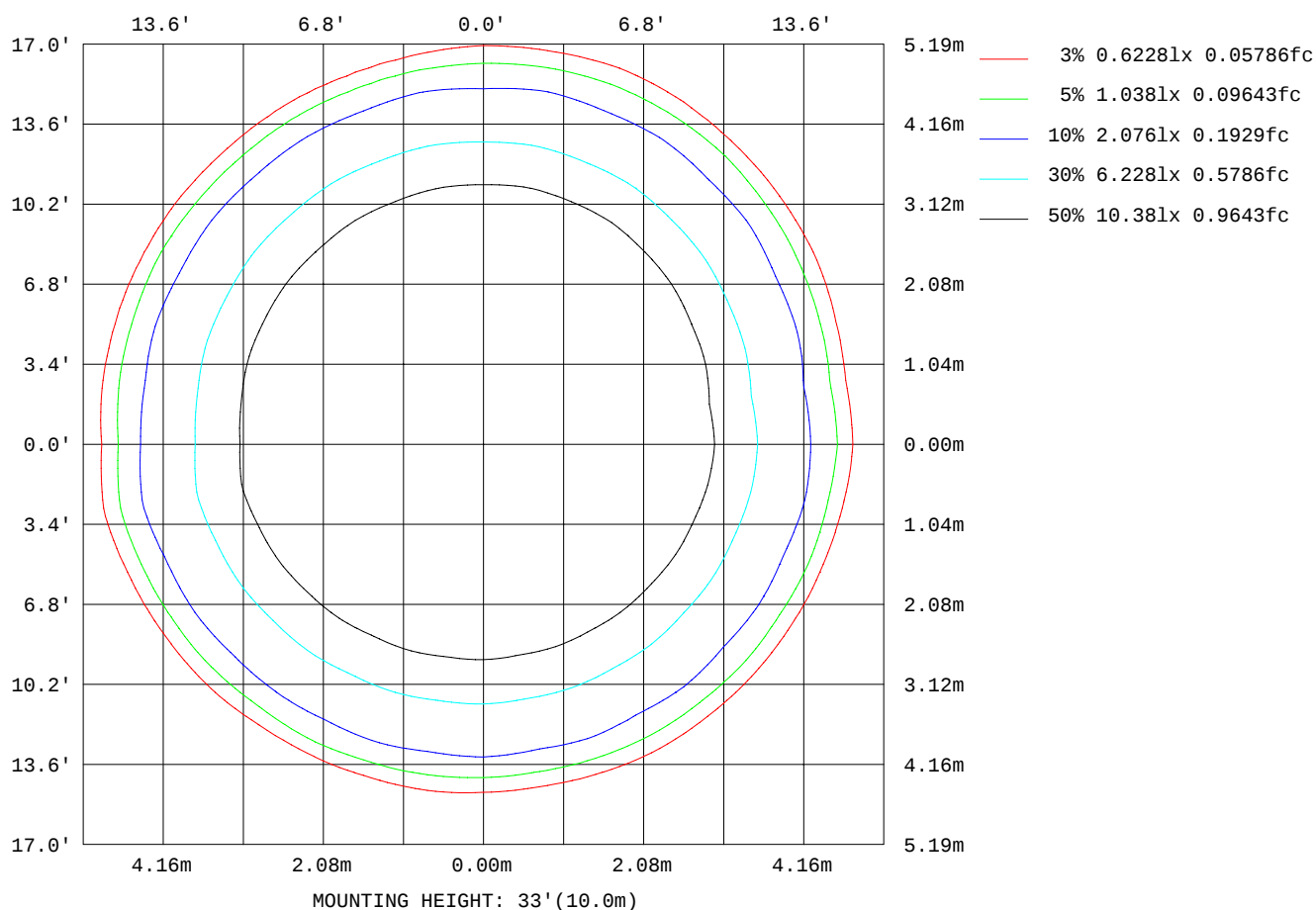
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks:

### Average Luminance Table(CIBSE)

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

| Parameter description for average Luminance            | Symbol | Value         | Unit     |
|--------------------------------------------------------|--------|---------------|----------|
| Luminance in Azimuth Plane                             | Bc     | refer Table 2 | cd/sq.m. |
| Intensity at angle Gamma in given azimuth plane        | I      | from data     | cd/klm   |
| Number of lamps                                        | N      | 1             |          |
| Output of each lamp(initial lumens as specified)       | F      | 682.429       | lm       |
| Multiplying factor                                     | K      | 1             |          |
| Luminous area in horizontal plane used in calculations | A      | 0.1           | sq.m.    |
| Angle to the downward vertical from light centre       | Gamma  | from data     | deg      |

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

| G   | C plane(deg) |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |
|-----|--------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| deg | 0            | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 55  | 25           | 24 | 24 | 23 | 24 | 24 | 24 | 24 | 25 | 24 | 26  | 26  | 27  | 27  | 28  | 28  | 29  | 29  | 28  |
| 60  | 17           | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 17  | 17  | 19  | 19  | 21  | 20  | 21  | 21  | 20  |
| 65  | 8            | 6  | 7  | 6  | 6  | 6  | 7  | 6  | 7  | 6  | 8   | 7   | 9   | 8   | 10  | 9   | 11  | 11  | 10  |
| 70  | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 75  | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80  | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 85  | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

| CIBSE Category | Gamma (deg) | Average Luminance  |                   | Patch Luminance  |                   |
|----------------|-------------|--------------------|-------------------|------------------|-------------------|
|                |             | maximum calculated | specified maximum | maximum measured | specified maximum |
| Category 1     | 55 to 90    | 29                 | 200               | ---              | 500               |
| Category 2     | 65 to 90    | 11                 | 200               | ---              | 500               |
| Category 3     | 75 to 90    | 0                  | 200               | ---              | 500               |

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:tang  
Test Date:2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

### Average Luminance Table(CIBSE)

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

| Parameter description for average Luminance            | Symbol | Value         | Unit     |
|--------------------------------------------------------|--------|---------------|----------|
| Luminance in Azimuth Plane                             | Bc     | refer Table 2 | cd/sq.m. |
| Intensity at angle Gamma in given azimuth plane        | I      | from data     | cd/klm   |
| Number of lamps                                        | N      | 1             |          |
| Output of each lamp(initial lumens as specified)       | F      | 682.429       | lm       |
| Multiplying factor                                     | K      | 1             |          |
| Luminous area in horizontal plane used in calculations | A      | 0.1           | sq.m.    |
| Angle to the downward vertical from light centre       | Gamma  | from data     | deg      |

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

| G<br>deg | C plane(deg) |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |
|----------|--------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|          | 0            | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 55       | 25           | 24 | 24 | 23 | 24 | 24 | 24 | 24 | 25 | 24 | 26  | 26  | 27  | 27  | 28  | 28  | 29  | 29  | 28  |
| 60       | 17           | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 16 | 16 | 17  | 17  | 19  | 19  | 21  | 20  | 21  | 21  | 20  |
| 65       | 8            | 6  | 7  | 6  | 6  | 6  | 7  | 6  | 7  | 6  | 8   | 7   | 9   | 8   | 10  | 9   | 11  | 11  | 10  |
| 70       | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 75       | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80       | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 85       | 0            | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

| range<br>(deg) | Maximum<br>measured | Average Luminance(cd/sq.m)                             |                                     |                                    |                                    |
|----------------|---------------------|--------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
|                |                     | Maximum limit for screen type & software category used |                                     |                                    |                                    |
|                |                     | Type I,II screen<br>Some neg.s'ware                    | Type I,II screen<br>Only pos.s'ware | Type III screen<br>Some neg.s'ware | Type III screen<br>Only pos.s'ware |
| 55 to 90       | 29                  | 1000                                                   | 1500                                | 200                                | 500                                |
| 65 to 90       | 11                  | 1000                                                   | 1500                                | 200                                | 500                                |

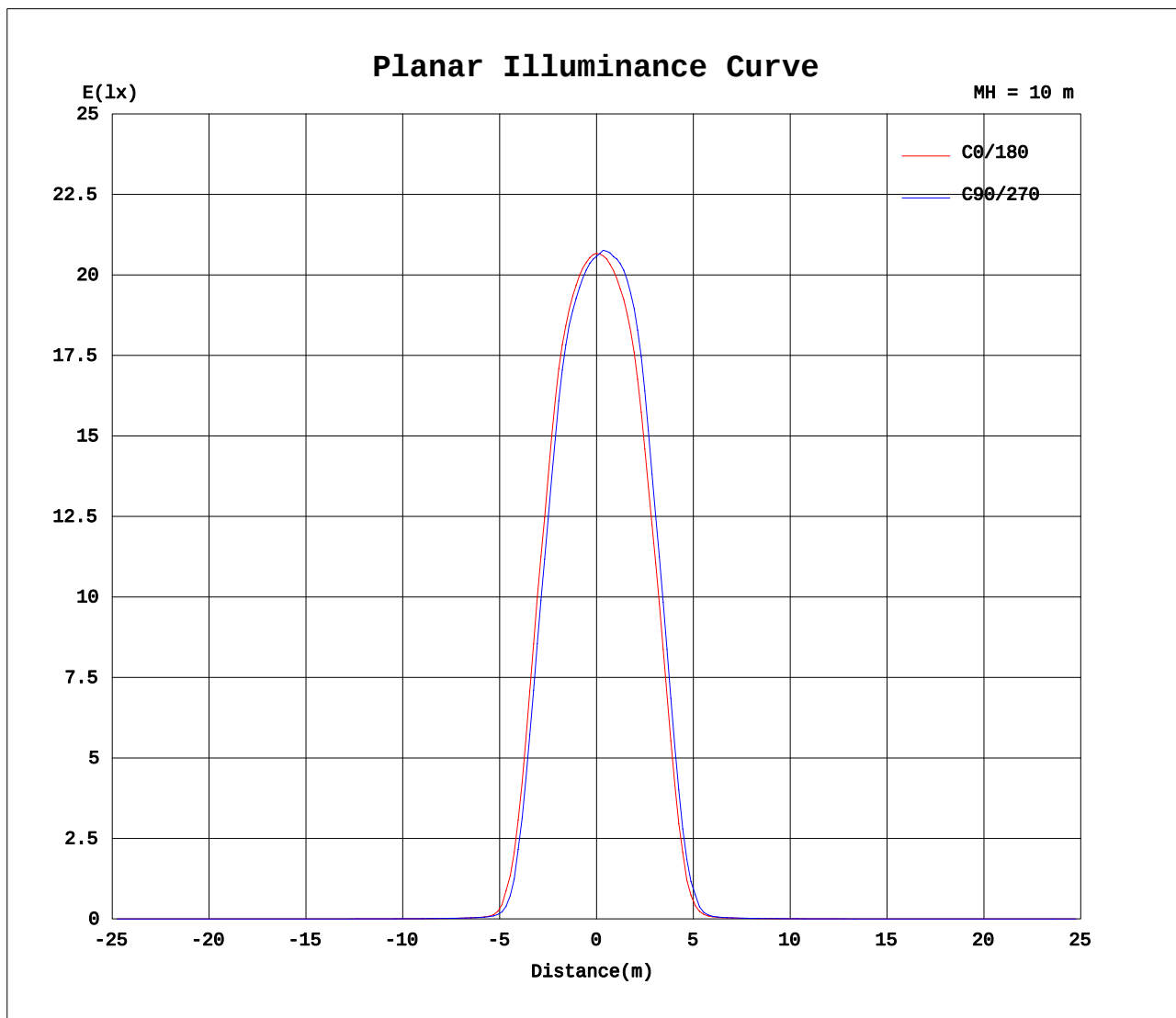
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

The luminaire satisfies the specified luminance criteria for  
Negative Software with Type I & II Screen(Good to Moderate treatment).

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:tang  
Test Date:2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C(°)<br>γ (°) | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0             | 2067 | 2065 | 2063 | 2062 | 2061 | 2060 | 2059 | 2058 | 2058 | 2058 | 2057 | 2057 | 2056 | 2056 | 2055 | 2056 | 2055 | 2055 | 2067 |
| 5             | 2022 | 2013 | 2000 | 1993 | 1986 | 1984 | 1984 | 1985 | 1983 | 1984 | 1983 | 1986 | 1986 | 1989 | 1993 | 2006 | 2014 | 2026 | 2037 |
| 10            | 1867 | 1852 | 1824 | 1809 | 1792 | 1788 | 1776 | 1781 | 1777 | 1785 | 1784 | 1796 | 1800 | 1822 | 1835 | 1860 | 1878 | 1903 | 1911 |
| 15            | 1384 | 1357 | 1313 | 1293 | 1263 | 1254 | 1233 | 1233 | 1221 | 1241 | 1243 | 1279 | 1297 | 1344 | 1375 | 1425 | 1454 | 1506 | 1491 |
| 20            | 676  | 649  | 601  | 580  | 547  | 539  | 516  | 518  | 507  | 527  | 531  | 567  | 586  | 644  | 682  | 750  | 796  | 867  | 838  |
| 25            | 119  | 97.1 | 82.7 | 75.7 | 66.5 | 63.9 | 58.0 | 56.0 | 51.8 | 53.5 | 54.5 | 62.6 | 68.4 | 84.3 | 110  | 125  | 148  | 179  | 162  |
| 30            | 10.5 | 10.1 | 9.58 | 9.45 | 9.16 | 9.22 | 9.09 | 9.16 | 9.10 | 9.23 | 9.29 | 9.58 | 9.74 | 10.2 | 10.7 | 11.6 | 12.7 | 15.5 | 14.7 |
| 35            | 5.47 | 5.35 | 5.21 | 5.17 | 5.17 | 5.17 | 5.20 | 5.27 | 5.26 | 5.32 | 5.38 | 5.52 | 5.53 | 5.67 | 5.80 | 5.97 | 6.08 | 6.30 | 6.11 |
| 40            | 3.78 | 3.68 | 3.63 | 3.57 | 3.62 | 3.63 | 3.68 | 3.68 | 3.74 | 3.76 | 3.82 | 3.85 | 3.91 | 3.92 | 3.98 | 4.03 | 4.10 | 4.17 | 4.05 |
| 45            | 2.79 | 2.70 | 2.67 | 2.63 | 2.67 | 2.68 | 2.72 | 2.71 | 2.78 | 2.76 | 2.82 | 2.84 | 2.89 | 2.91 | 2.95 | 2.99 | 3.06 | 3.02 | 2.97 |
| 50            | 2.06 | 1.96 | 1.95 | 1.91 | 1.95 | 1.95 | 1.99 | 1.98 | 2.05 | 2.02 | 2.11 | 2.09 | 2.16 | 2.16 | 2.19 | 2.19 | 2.27 | 2.24 | 2.19 |
| 55            | 1.45 | 1.35 | 1.35 | 1.32 | 1.35 | 1.35 | 1.38 | 1.36 | 1.42 | 1.39 | 1.48 | 1.49 | 1.57 | 1.56 | 1.61 | 1.58 | 1.65 | 1.65 | 1.59 |
| 60            | 0.86 | 0.78 | 0.78 | 0.73 | 0.74 | 0.74 | 0.77 | 0.74 | 0.79 | 0.78 | 0.87 | 0.86 | 0.94 | 0.96 | 1.03 | 1.01 | 1.07 | 1.05 | 1.00 |
| 65            | 0.32 | 0.26 | 0.29 | 0.24 | 0.27 | 0.24 | 0.28 | 0.24 | 0.29 | 0.26 | 0.34 | 0.30 | 0.37 | 0.34 | 0.41 | 0.40 | 0.47 | 0.46 | 0.41 |
| 70            | 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 |
| 75            | 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 |
| 80            | 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 |
| 85            | 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 |
| 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           | 0.15 | 0.22 | 0.20 | 0.25 | 0.22 | 0.27 | 0.23 | 0.28 | 0.24 | 0.28 | 0.24 | 0.26 | 0.21 | 0.23 | 0.16 | 0.18 | 0.11 | 0.12 | 0.18 |
| 145           | 0.62 | 0.69 | 0.68 | 0.74 | 0.73 | 0.78 | 0.75 | 0.80 | 0.77 | 0.80 | 0.76 | 0.77 | 0.71 | 0.70 | 0.63 | 0.63 | 0.55 | 0.54 | 0.58 |
| 150           | 1.28 | 1.36 | 1.36 | 1.42 | 1.42 | 1.47 | 1.46 | 1.50 | 1.47 | 1.49 | 1.45 | 1.45 | 1.39 | 1.37 | 1.30 | 1.27 | 1.19 | 1.15 | 1.19 |
| 155           | 2.05 | 2.12 | 2.14 | 2.21 | 2.22 | 2.27 | 2.26 | 2.29 | 2.27 | 2.28 | 2.23 | 2.23 | 2.16 | 2.14 | 2.06 | 2.04 | 1.95 | 1.90 | 1.92 |
| 160           | 2.84 | 2.92 | 2.92 | 2.99 | 2.99 | 3.05 | 3.03 | 3.07 | 3.04 | 3.06 | 3.01 | 3.01 | 2.93 | 2.91 | 2.84 | 2.81 | 2.73 | 2.70 | 2.71 |
| 165           | 3.46 | 3.54 | 3.53 | 3.61 | 3.59 | 3.65 | 3.62 | 3.68 | 3.64 | 3.67 | 3.62 | 3.63 | 3.55 | 3.55 | 3.48 | 3.47 | 3.39 | 3.38 | 3.34 |
| 170           | 4.00 | 4.07 | 4.04 | 4.11 | 4.08 | 4.14 | 4.10 | 4.15 | 4.11 | 4.16 | 4.10 | 4.13 | 4.06 | 4.06 | 4.00 | 4.01 | 3.93 | 3.94 | 3.87 |
| 175           | 4.44 | 4.50 | 4.46 | 4.49 | 4.45 | 4.50 | 4.46 | 4.52 | 4.47 | 4.52 | 4.47 | 4.50 | 4.44 | 4.47 | 4.41 | 4.45 | 4.39 | 4.44 | 4.39 |
| 180           | 4.65 | 4.65 | 4.62 | 4.62 | 4.60 | 4.60 | 4.59 | 4.59 | 4.59 | 4.59 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.61 | 4.63 | 4.66 | 4.65 |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:tang  
Test Date:2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                  |        |                   |
|----------------------------------|--------|-------------------|
| NAME: Pendant50-R-3000k-Ra90-36D | TYPE:  | WEIGHT:           |
| DIM.:                            | SPEC.: | SERIAL No.:       |
| MFR.: VD                         | SUR.:  | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(°)<br>γ (°) | 190  | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  | 300  | 310  | 320  | 330  | 340  | 350  |  |  |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0             | 2065 | 2063 | 2062 | 2061 | 2060 | 2059 | 2058 | 2058 | 2058 | 2057 | 2057 | 2056 | 2056 | 2055 | 2056 | 2055 | 2055 |  |  |
| 5             | 2045 | 2049 | 2057 | 2066 | 2073 | 2078 | 2082 | 2080 | 2081 | 2079 | 2074 | 2066 | 2058 | 2053 | 2039 | 2027 | 2014 |  |  |
| 10            | 1931 | 1952 | 1963 | 1987 | 1998 | 2012 | 2023 | 2035 | 2035 | 2029 | 2008 | 1993 | 1971 | 1950 | 1923 | 1901 | 1867 |  |  |
| 15            | 1513 | 1556 | 1578 | 1618 | 1631 | 1666 | 1673 | 1691 | 1683 | 1688 | 1659 | 1639 | 1587 | 1543 | 1481 | 1437 | 1372 |  |  |
| 20            | 863  | 916  | 930  | 968  | 974  | 999  | 999  | 1022 | 1009 | 1020 | 982  | 961  | 894  | 848  | 775  | 727  | 653  |  |  |
| 25            | 177  | 198  | 205  | 219  | 224  | 236  | 238  | 267  | 249  | 274  | 245  | 234  | 208  | 185  | 155  | 132  | 112  |  |  |
| 30            | 15.3 | 16.4 | 16.3 | 16.9 | 16.9 | 17.6 | 17.7 | 18.6 | 19.4 | 22.0 | 22.6 | 22.0 | 18.0 | 15.2 | 12.5 | 11.1 | 9.96 |  |  |
| 35            | 6.13 | 6.20 | 6.16 | 6.30 | 6.34 | 6.47 | 6.50 | 6.70 | 6.73 | 6.95 | 6.90 | 6.82 | 6.43 | 6.18 | 5.85 | 5.57 | 5.33 |  |  |
| 40            | 4.05 | 4.03 | 4.03 | 4.03 | 4.04 | 4.10 | 4.17 | 4.27 | 4.36 | 4.47 | 4.51 | 4.43 | 4.29 | 4.11 | 3.98 | 3.81 | 3.72 |  |  |
| 45            | 2.99 | 2.91 | 2.94 | 2.92 | 2.97 | 2.97 | 3.05 | 3.09 | 3.18 | 3.23 | 3.29 | 3.21 | 3.15 | 3.00 | 2.93 | 2.83 | 2.76 |  |  |
| 50            | 2.21 | 2.14 | 2.17 | 2.14 | 2.18 | 2.16 | 2.25 | 2.25 | 2.34 | 2.38 | 2.44 | 2.37 | 2.33 | 2.20 | 2.15 | 2.06 | 2.02 |  |  |
| 55            | 1.60 | 1.54 | 1.57 | 1.54 | 1.57 | 1.53 | 1.59 | 1.58 | 1.64 | 1.67 | 1.73 | 1.68 | 1.63 | 1.52 | 1.53 | 1.45 | 1.42 |  |  |
| 60            | 1.03 | 1.00 | 1.03 | 0.99 | 1.03 | 0.97 | 1.03 | 1.01 | 1.06 | 1.06 | 1.12 | 1.07 | 1.03 | 0.93 | 0.91 | 0.84 | 0.83 |  |  |
| 65            | 0.45 | 0.41 | 0.47 | 0.43 | 0.46 | 0.42 | 0.47 | 0.43 | 0.46 | 0.43 | 0.47 | 0.41 | 0.41 | 0.34 | 0.35 | 0.28 | 0.33 |  |  |
| 70            | 0.01 | 0.00 | 0.02 | 0.00 | 0.03 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |
| 75            | 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 |  |  |
| 80            | 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 |  |  |
| 85            | 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 |  |  |
| 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           | 0.12 | 0.15 | 0.09 | 0.13 | 0.07 | 0.11 | 0.07 | 0.11 | 0.07 | 0.12 | 0.08 | 0.14 | 0.11 | 0.18 | 0.15 | 0.22 | 0.20 |  |  |
| 145           | 0.51 | 0.52 | 0.47 | 0.48 | 0.43 | 0.46 | 0.41 | 0.45 | 0.42 | 0.47 | 0.45 | 0.51 | 0.50 | 0.57 | 0.57 | 0.64 | 0.64 |  |  |
| 150           | 1.11 | 1.09 | 1.03 | 1.04 | 0.99 | 1.00 | 0.97 | 1.00 | 0.98 | 1.02 | 1.01 | 1.06 | 1.08 | 1.15 | 1.17 | 1.24 | 1.27 |  |  |
| 155           | 1.84 | 1.82 | 1.74 | 1.74 | 1.69 | 1.70 | 1.66 | 1.69 | 1.67 | 1.71 | 1.71 | 1.78 | 1.80 | 1.87 | 1.90 | 1.98 | 2.02 |  |  |
| 160           | 2.61 | 2.59 | 2.52 | 2.51 | 2.45 | 2.47 | 2.42 | 2.46 | 2.44 | 2.48 | 2.48 | 2.54 | 2.55 | 2.63 | 2.65 | 2.74 | 2.77 |  |  |
| 165           | 3.23 | 3.24 | 3.17 | 3.19 | 3.13 | 3.16 | 3.12 | 3.16 | 3.13 | 3.18 | 3.17 | 3.23 | 3.23 | 3.30 | 3.30 | 3.39 | 3.41 |  |  |
| 170           | 3.77 | 3.77 | 3.70 | 3.73 | 3.69 | 3.72 | 3.69 | 3.74 | 3.71 | 3.76 | 3.75 | 3.80 | 3.78 | 3.86 | 3.85 | 3.93 | 3.93 |  |  |
| 175           | 4.31 | 4.31 | 4.24 | 4.27 | 4.22 | 4.27 | 4.22 | 4.28 | 4.24 | 4.29 | 4.26 | 4.31 | 4.29 | 4.36 | 4.35 | 4.42 | 4.41 |  |  |
| 180           | 4.64 | 4.64 | 4.59 | 4.59 | 4.58 | 4.58 | 4.58 | 4.58 | 4.59 | 4.59 | 4.58 | 4.59 | 4.59 | 4.60 | 4.60 | 4.62 | 4.65 |  |  |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: tang  
Test Date: 2022-04-13

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.262  
Humidity: 65.0%  
Test Distance: 7.100m [K=1.0000]  
Remarks: