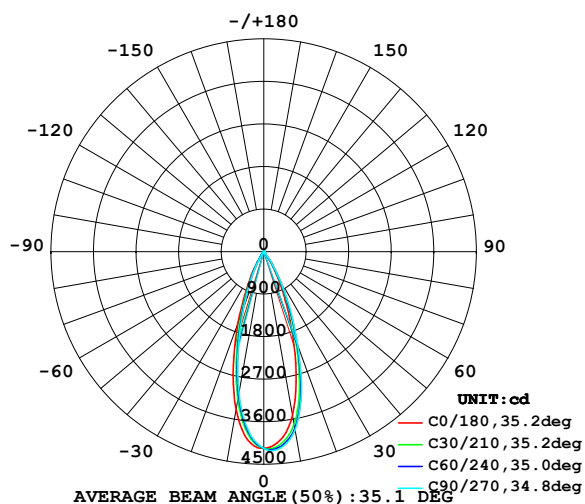


## LUMINAIRE PHOTOMETRIC TEST REPORT

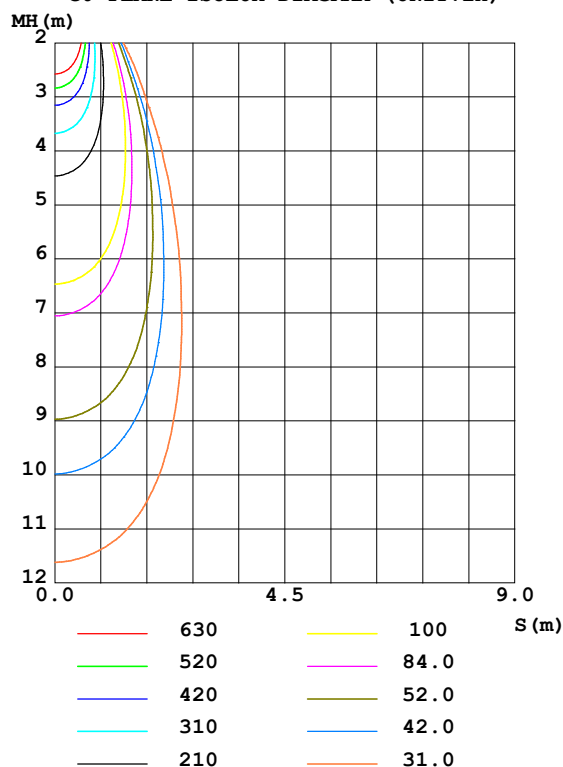
|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 99.67 lm/W |        |                   |          |
|------------------|---------|----------------------------------|--------|-------------------|----------|
| MCR-3 (16W, 36°) |         | I <sub>max</sub> (cd)            | 4217   | S/MH(C0/180)      | 0.57     |
| NOMINAL POWER(W) | 16      | LOR(%)                           | 100.0  | S/MH(C90/270)     | 0.50     |
| RATED VOLTAGE(V) | 120     | TOTAL FLUX(lm)                   | 1659.9 | η UP,DN(C0-180)   | 0.7,56.4 |
| NOMINAL FLUX(lm) | 1659.88 | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.6,42.3 |
| LAMPS INSIDE     | 1       | η up(%)                          | 1.3    | CIBSE SHR NOM     | 0.50     |
| TEST VOLTAGE(V)  | 120     | η down(%)                        | 98.7   | CIBSE SHR MAX     | 0.60     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



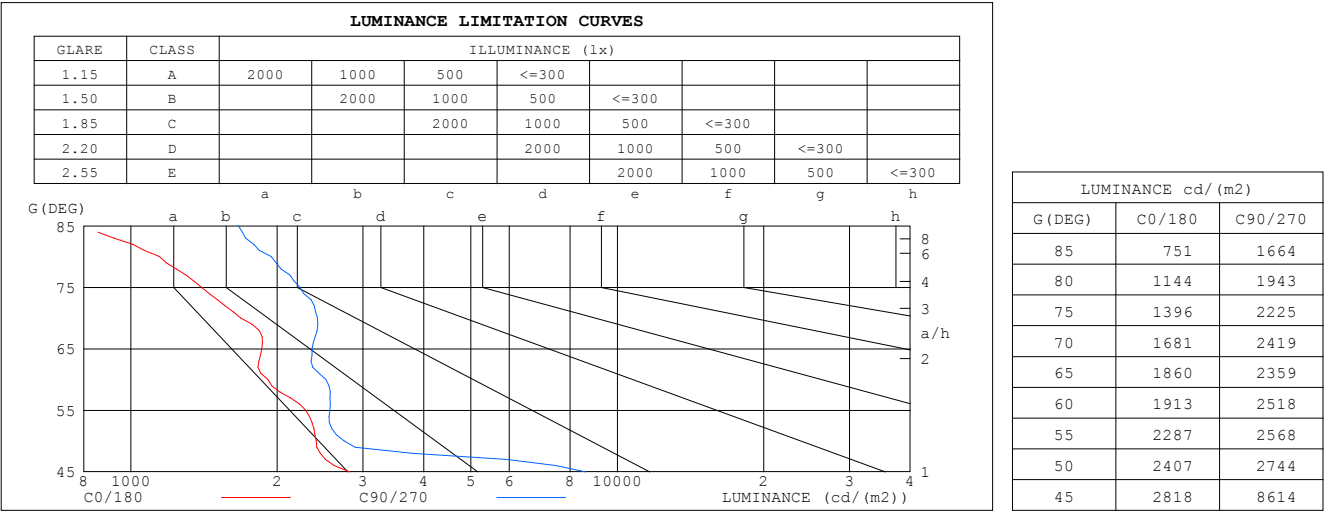
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.050m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10       | 3510                  | 3760   | 3829   | 3669   | 3388   | 3114   | 3038   | 3220   | 0- 10    | 363.4       | 363.4        | 21.9,21.9 |
| 20       | 1719                  | 2027   | 2104   | 1885   | 1584   | 1306   | 1236   | 1409   | 10- 20   | 699.9       | 1063         | 64.1,64.1 |
| 30       | 481.8                 | 628.7  | 669.0  | 556.2  | 411.6  | 284.0  | 260.2  | 342.0  | 20- 30   | 437.4       | 1501         | 90.4,90.4 |
| 40       | 40.25                 | 47.37  | 49.57  | 37.97  | 29.45  | 25.86  | 26.82  | 30.90  | 30- 40   | 110.4       | 1611         | 97.1,97.1 |
| 50       | 6.927                 | 7.284  | 7.947  | 8.430  | 8.349  | 7.773  | 7.543  | 7.003  | 40- 50   | 13.87       | 1625         | 97.9,97.9 |
| 60       | 4.283                 | 4.865  | 5.672  | 6.318  | 6.480  | 5.743  | 4.860  | 4.239  | 50- 60   | 5.863       | 1631         | 98.3,98.3 |
| 70       | 2.574                 | 3.111  | 3.728  | 4.524  | 4.664  | 3.973  | 3.082  | 2.594  | 60- 70   | 4.349       | 1635         | 98.5,98.5 |
| 80       | 0.8899                | 1.138  | 1.520  | 1.867  | 1.716  | 1.396  | 1.035  | 0.8292 | 70- 80   | 2.467       | 1638         | 98.7,98.7 |
| 90       | 0.0135                | 0.0181 | 0.1167 | 0.0275 | 0.0225 | 0.0271 | 0.0316 | 0.0294 | 80- 90   | 0.5933      | 1638         | 98.7,98.7 |
| 100      | 0.0806                | 0.0406 | 0.0588 | 0.0452 | 0.0450 | 0.0406 | 0.0721 | 0.0452 | 90-100   | 0.0379      | 1638         | 98.7,98.7 |
| 110      | 0.3583                | 0.2859 | 0.2849 | 0.3185 | 0.1618 | 0.2050 | 0.2435 | 0.1740 | 100-110  | 0.1280      | 1638         | 98.7,98.7 |
| 120      | 1.605                 | 1.311  | 1.238  | 1.414  | 0.8090 | 0.9800 | 1.024  | 0.8925 | 110-120  | 0.6081      | 1639         | 98.7,98.7 |
| 130      | 4.313                 | 3.750  | 3.588  | 3.938  | 2.669  | 3.113  | 3.239  | 2.881  | 120-130  | 1.918       | 1641         | 98.9,98.9 |
| 140      | 7.961                 | 7.304  | 7.120  | 7.497  | 5.955  | 6.539  | 6.702  | 6.210  | 130-140  | 3.915       | 1645         | 99.1,99.1 |
| 150      | 11.14                 | 10.68  | 10.55  | 10.78  | 9.522  | 9.959  | 10.11  | 9.647  | 140-150  | 5.403       | 1650         | 99.4,99.4 |
| 160      | 12.41                 | 12.25  | 12.25  | 12.15  | 11.52  | 11.41  | 11.43  | 11.27  | 150-160  | 5.187       | 1655         | 99.7,99.7 |
| 170      | 11.74                 | 11.81  | 11.77  | 11.49  | 11.34  | 11.08  | 11.01  | 10.94  | 160-170  | 3.313       | 1659         | 99.9,99.9 |
| 180      | 11.40                 | 11.43  | 11.22  | 11.21  | 11.42  | 11.42  | 11.21  | 11.21  | 170-180  | 1.071       | 1660         | 100,100   |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |



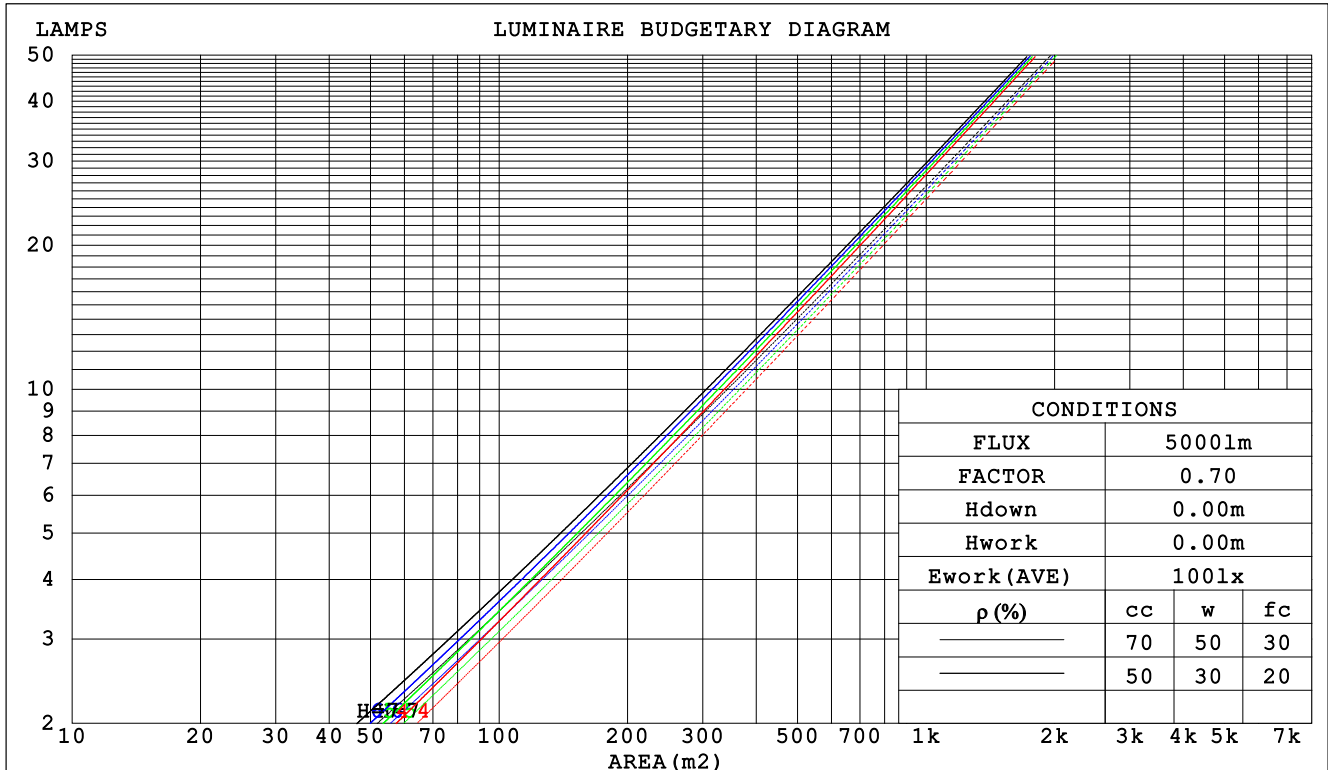
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | 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 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0         | 1.12                  | 1.10 | 1.08 | 1.09                            | 1.08 | 1.06 | 1.05 | 1.04 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  | .94 |
| 2.0         | 1.06                  | 1.02 | .99  | 1.04                            | 1.01 | .98  | 1.00 | .98  | .96  | .97  | .95  | .94  | .94  | .93  | .92  | .90 |
| 3.0         | 1.00                  | .96  | .93  | .99                             | .95  | .92  | .96  | .93  | .90  | .94  | .91  | .89  | .91  | .89  | .87  | .86 |
| 4.0         | .95                   | .91  | .87  | .94                             | .90  | .87  | .92  | .88  | .86  | .90  | .87  | .85  | .88  | .86  | .83  | .82 |
| 5.0         | .91                   | .86  | .83  | .90                             | .86  | .82  | .88  | .84  | .81  | .86  | .83  | .81  | .85  | .82  | .80  | .79 |
| 6.0         | .87                   | .82  | .79  | .86                             | .82  | .78  | .85  | .81  | .78  | .83  | .80  | .77  | .82  | .79  | .77  | .75 |
| 7.0         | .83                   | .78  | .75  | .83                             | .78  | .75  | .81  | .77  | .74  | .80  | .77  | .74  | .79  | .76  | .73  | .72 |
| 8.0         | .80                   | .75  | .72  | .79                             | .75  | .72  | .78  | .74  | .71  | .77  | .74  | .71  | .76  | .73  | .71  | .69 |
| 9.0         | .77                   | .72  | .69  | .76                             | .72  | .69  | .75  | .71  | .68  | .74  | .71  | .68  | .74  | .70  | .68  | .67 |
| 10.0        | .74                   | .69  | .66  | .74                             | .69  | .66  | .73  | .69  | .66  | .72  | .68  | .66  | .71  | .68  | .65  | .64 |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION 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  | .153 .087 .028        | .146 .083 .026 | .133 .076 .024 | .121 .070 .022 | .109 .063 .020 |                                 |
| 2.0  | .143 .079 .024        | .137 .076 .023 | .126 .070 .022 | .116 .065 .020 | .107 .060 .019 |                                 |
| 3.0  | .135 .072 .021        | .130 .069 .021 | .120 .065 .020 | .112 .061 .019 | .104 .057 .018 |                                 |
| 4.0  | .127 .066 .019        | .123 .064 .019 | .115 .061 .018 | .107 .058 .017 | .101 .055 .017 |                                 |
| 5.0  | .120 .061 .018        | .117 .060 .017 | .110 .057 .017 | .103 .055 .016 | .097 .052 .016 |                                 |
| 6.0  | .115 .057 .016        | .111 .056 .016 | .105 .054 .016 | .100 .052 .015 | .094 .050 .015 |                                 |
| 7.0  | .109 .054 .015        | .106 .053 .015 | .101 .051 .015 | .096 .049 .014 | .091 .047 .014 |                                 |
| 8.0  | .104 .051 .014        | .102 .050 .014 | .097 .049 .014 | .093 .047 .014 | .089 .045 .013 |                                 |
| 9.0  | .100 .048 .014        | .098 .048 .013 | .094 .046 .013 | .090 .045 .013 | .086 .044 .013 |                                 |
| 10.0 | .096 .046 .013        | .094 .045 .013 | .090 .044 .012 | .087 .043 .012 | .083 .042 .012 |                                 |

|      |                       |                |                |                |                |                                            |
|------|-----------------------|----------------|----------------|----------------|----------------|--------------------------------------------|
| 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  | .200 .200 .200        | .171 .171 .171 | .117 .117 .117 | .067 .067 .067 | .021 .021 .021 |                                            |
| 1.0  | .179 .168 .157        | .154 .144 .135 | .105 .099 .093 | .060 .057 .054 | .019 .018 .018 |                                            |
| 2.0  | .162 .143 .126        | .139 .123 .109 | .095 .085 .076 | .055 .049 .045 | .018 .016 .015 |                                            |
| 3.0  | .149 .123 .104        | .127 .107 .090 | .087 .074 .063 | .050 .043 .037 | .016 .014 .012 |                                            |
| 4.0  | .137 .108 .087        | .117 .094 .075 | .081 .065 .053 | .047 .038 .031 | .015 .012 .010 |                                            |
| 5.0  | .127 .096 .074        | .109 .083 .064 | .075 .058 .045 | .044 .034 .027 | .014 .011 .009 |                                            |
| 6.0  | .119 .087 .064        | .102 .075 .055 | .071 .053 .039 | .041 .031 .023 | .013 .010 .008 |                                            |
| 7.0  | .112 .079 .056        | .096 .068 .049 | .066 .048 .034 | .039 .028 .020 | .012 .009 .007 |                                            |
| 8.0  | .106 .072 .049        | .091 .063 .043 | .063 .044 .031 | .037 .026 .018 | .012 .009 .006 |                                            |
| 9.0  | .100 .067 .044        | .086 .058 .039 | .060 .041 .027 | .035 .024 .016 | .011 .008 .005 |                                            |
| 10.0 | .096 .062 .040        | .083 .054 .035 | .057 .038 .025 | .033 .022 .015 | .011 .007 .005 |                                            |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.050m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

|                                                    |     |     |     |     |                  |      |      |      |      |                   |      |      |      |      |
|----------------------------------------------------|-----|-----|-----|-----|------------------|------|------|------|------|-------------------|------|------|------|------|
| NAME: MCR-3 (16W, 36°)                             |     |     |     |     | TYPE:LED         |      |      |      |      | WEIGHT:           |      |      |      |      |
| SPEC.:                                             |     |     |     |     | DIM.:            |      |      |      |      | SERIAL No.:1      |      |      |      |      |
| MFR.: Utopia Lighting                              |     |     |     |     | 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                                      |     |     |     |     | 14.5             | 15.2 | 14.7 | 15.4 | 15.6 | 15.9              | 16.7 | 16.2 | 16.9 | 17.0 |
| 3H                                                 |     |     |     |     | 14.4             | 15.1 | 14.6 | 15.3 | 15.5 | 15.8              | 16.5 | 16.1 | 16.7 | 16.9 |
| 4H                                                 |     |     |     |     | 14.3             | 15.0 | 14.6 | 15.2 | 15.4 | 15.8              | 16.4 | 16.1 | 16.7 | 16.9 |
| 6H                                                 |     |     |     |     | 14.2             | 14.8 | 14.5 | 15.1 | 15.4 | 15.7              | 16.3 | 16.0 | 16.6 | 16.8 |
| 8H                                                 |     |     |     |     | 14.2             | 14.8 | 14.5 | 15.1 | 15.3 | 15.7              | 16.3 | 16.0 | 16.5 | 16.8 |
| 12H                                                |     |     |     |     | 14.1             | 14.7 | 14.5 | 15.0 | 15.3 | 15.6              | 16.2 | 16.0 | 16.5 | 16.8 |
| 4H 2H                                              |     |     |     |     | 14.3             | 14.9 | 14.5 | 15.1 | 15.4 | 15.7              | 16.4 | 16.0 | 16.6 | 16.8 |
| 3H                                                 |     |     |     |     | 14.1             | 14.7 | 14.5 | 15.0 | 15.3 | 15.6              | 16.2 | 15.9 | 16.5 | 16.7 |
| 4H                                                 |     |     |     |     | 14.1             | 14.6 | 14.4 | 14.9 | 15.3 | 15.5              | 16.1 | 15.9 | 16.4 | 16.7 |
| 6H                                                 |     |     |     |     | 14.0             | 14.5 | 14.4 | 14.8 | 15.2 | 15.5              | 16.0 | 15.9 | 16.3 | 16.7 |
| 8H                                                 |     |     |     |     | 14.0             | 14.4 | 14.4 | 14.8 | 15.2 | 15.5              | 15.9 | 15.9 | 16.3 | 16.6 |
| 12H                                                |     |     |     |     | 13.9             | 14.3 | 14.3 | 14.7 | 15.1 | 15.4              | 15.8 | 15.8 | 16.2 | 16.6 |
| 8H 4H                                              |     |     |     |     | 14.0             | 14.4 | 14.4 | 14.8 | 15.1 | 15.4              | 15.8 | 15.8 | 16.2 | 16.6 |
| 6H                                                 |     |     |     |     | 13.9             | 14.2 | 14.3 | 14.7 | 15.1 | 15.4              | 15.7 | 15.8 | 16.1 | 16.6 |
| 8H                                                 |     |     |     |     | 13.8             | 14.2 | 14.3 | 14.6 | 15.1 | 15.3              | 15.6 | 15.8 | 16.1 | 16.5 |
| 12H                                                |     |     |     |     | 13.8             | 14.1 | 14.3 | 14.5 | 15.0 | 15.3              | 15.6 | 15.8 | 16.0 | 16.5 |
| 12H 4H                                             |     |     |     |     | 13.9             | 14.3 | 14.3 | 14.7 | 15.1 | 15.4              | 15.7 | 15.8 | 16.1 | 16.6 |
| 6H                                                 |     |     |     |     | 13.8             | 14.1 | 14.3 | 14.6 | 15.1 | 15.3              | 15.6 | 15.8 | 16.1 | 16.5 |
| 8H                                                 |     |     |     |     | 13.8             | 14.1 | 14.3 | 14.5 | 15.0 | 15.3              | 15.5 | 15.8 | 16.0 | 16.5 |
| Variations with the observer position at spacings: |     |     |     |     |                  |      |      |      |      |                   |      |      |      |      |
| S = 1.0H                                           |     |     |     |     | + 2.3 / - 3.4    |      |      |      |      | + 4.9 / - 5.1     |      |      |      |      |
| 1.5H                                               |     |     |     |     | + 4.5 / - 3.3    |      |      |      |      | + 7.3 / - 5.2     |      |      |      |      |
| 2.0H                                               |     |     |     |     | + 0.4 / - 0.6    |      |      |      |      | + 3.9 / - 1.1     |      |      |      |      |

CIE Pub.117 Corrected 1660 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.8)

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.050m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |

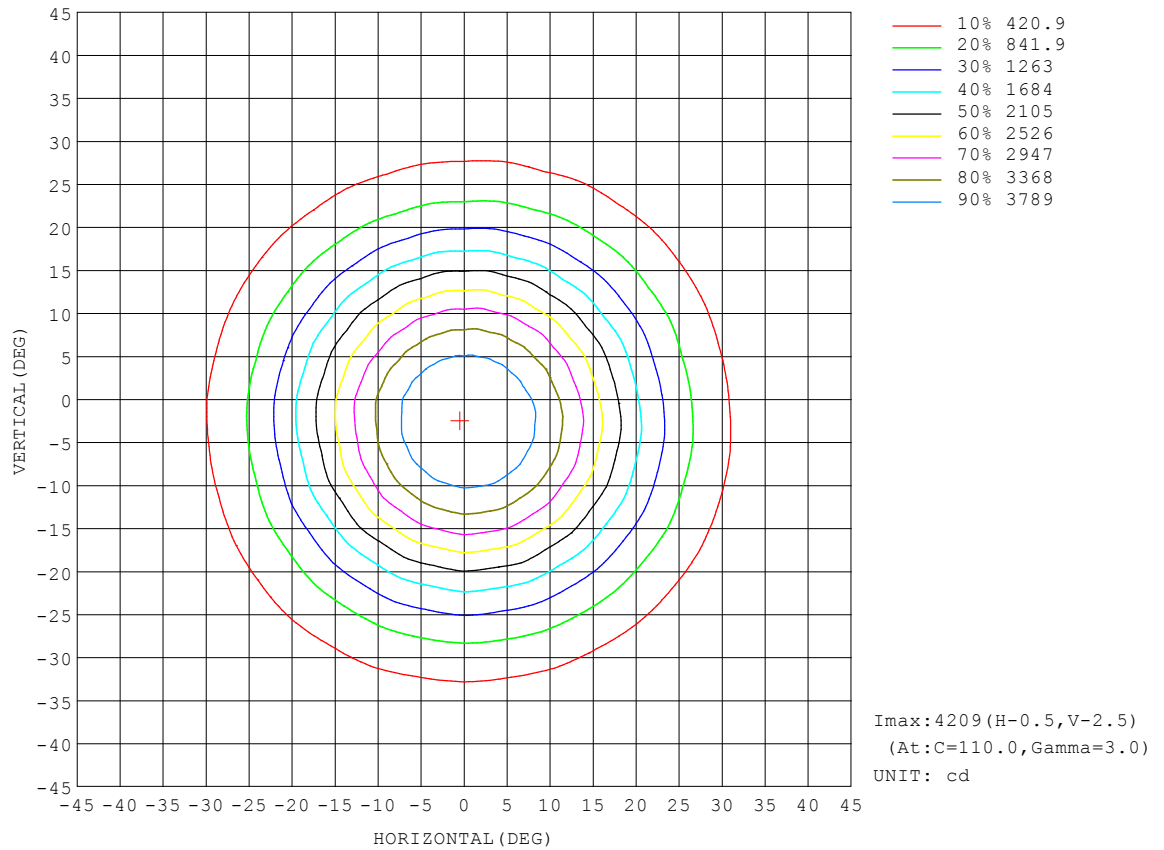
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 90                                                   | 84  | 81        | 89  | 84  | 80  | 88  | 83            | 80  | 77     |
| 0.80                             | 97                                                   | 91  | 88        | 96  | 91  | 88  | 95  | 90            | 87  | 84     |
| 1.00                             | 101                                                  | 95  | 92        | 100 | 95  | 92  | 98  | 95            | 91  | 87     |
| 1.25                             | 104                                                  | 99  | 96        | 103 | 99  | 96  | 101 | 98            | 95  | 91     |
| 1.50                             | 107                                                  | 102 | 99        | 105 | 102 | 99  | 103 | 100           | 98  | 93     |
| 2.00                             | 109                                                  | 105 | 102       | 108 | 104 | 101 | 105 | 102           | 100 | 94     |
| 2.50                             | 111                                                  | 107 | 104       | 109 | 106 | 103 | 106 | 103           | 101 | 95     |
| 3.00                             | 112                                                  | 109 | 106       | 110 | 107 | 105 | 107 | 104           | 103 | 96     |
| 4.00                             | 114                                                  | 111 | 109       | 112 | 110 | 108 | 108 | 106           | 105 | 98     |
| 5.00                             | 115                                                  | 113 | 111       | 113 | 111 | 110 | 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: DAMIN  
 Test Date: 2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 8.050m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |

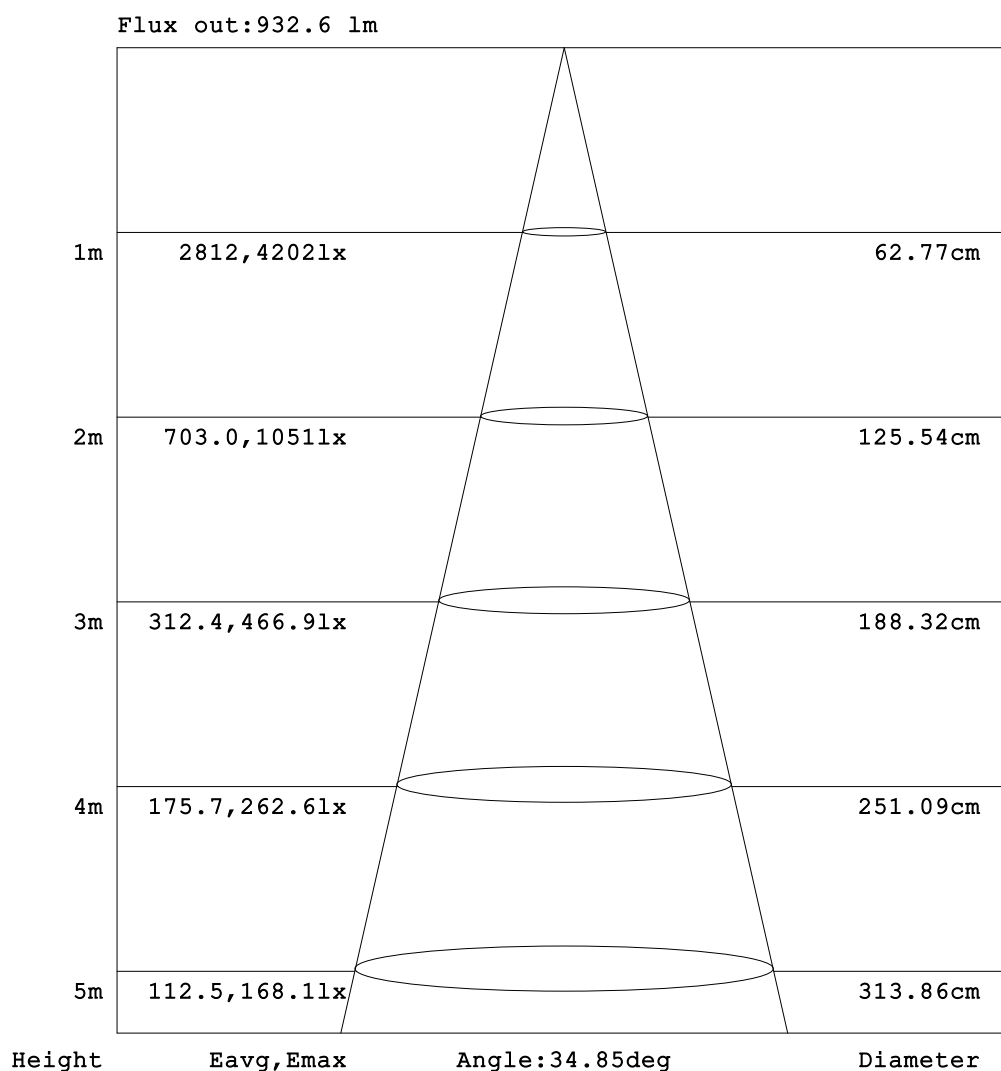


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks:

## AAI Figure

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |



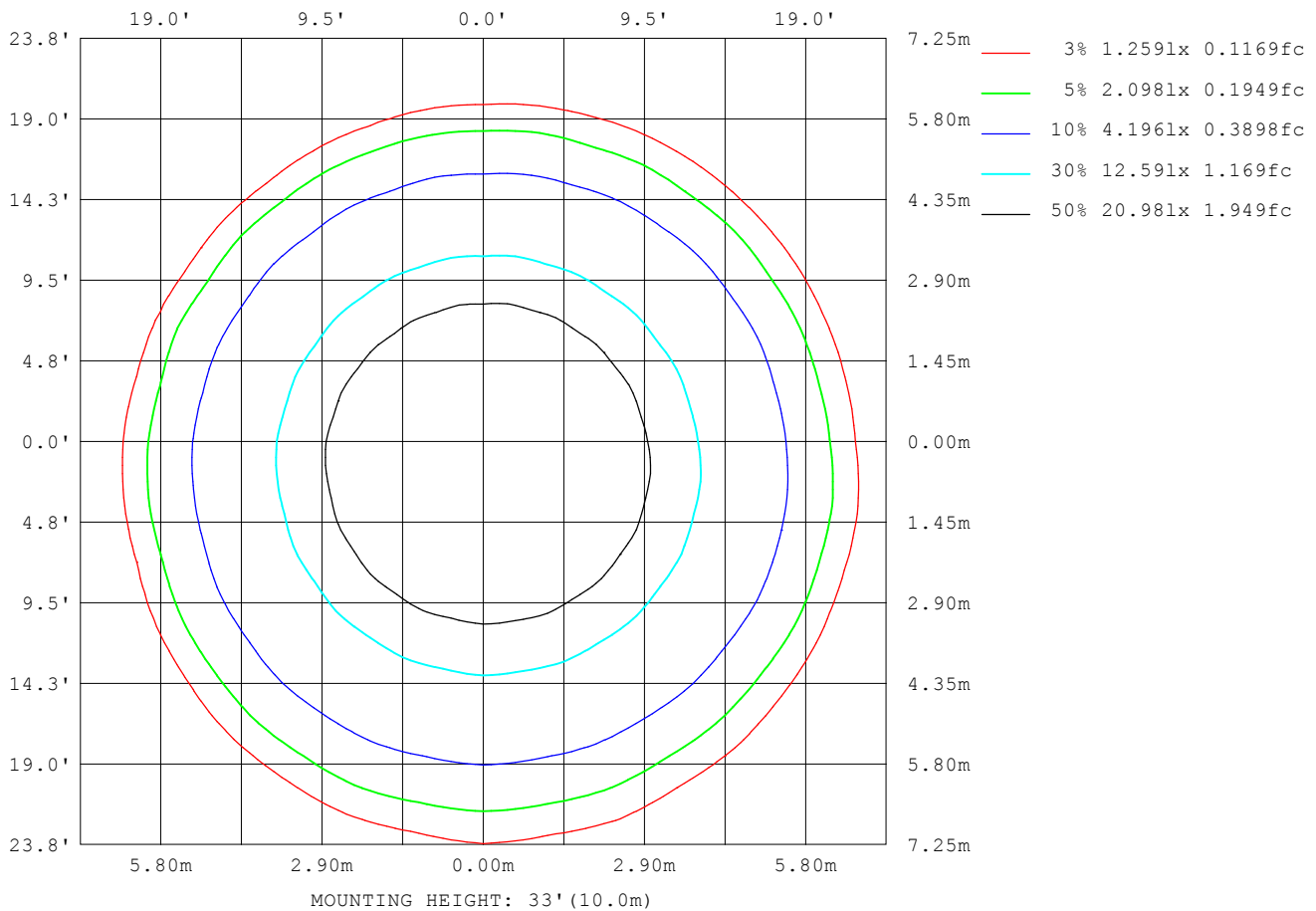
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2025-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.050m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2025-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 8.050m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |

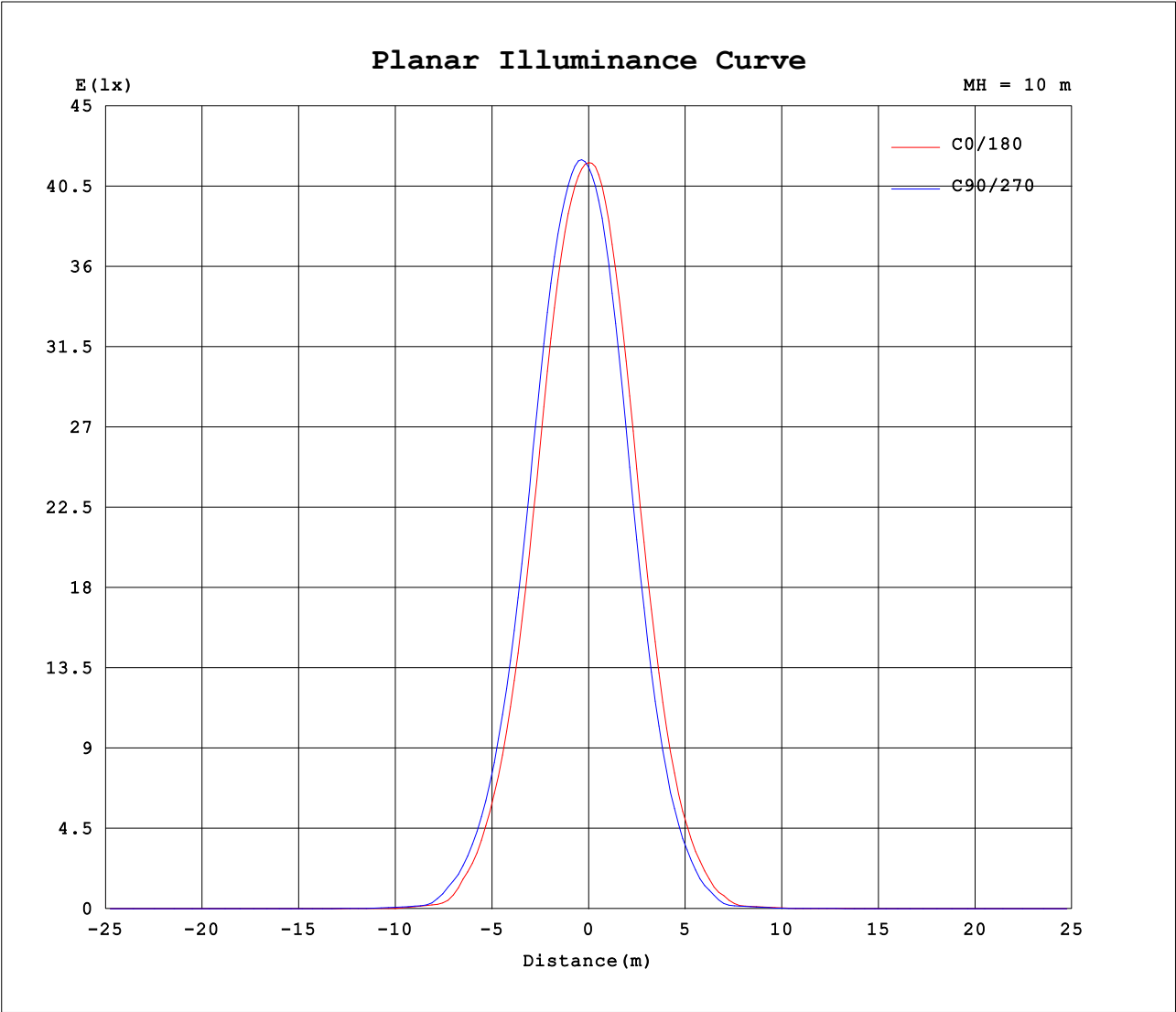
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 2378  |
| L_0~180 (75) av  | 1994  |
| L_0~180 (85) av  | 1263  |
| L_90~270 (65) av | 2273  |
| L_90~270 (75) av | 1939  |
| L_90~270 (85) av | 1295  |
| L_45 (65) av     | 2327  |
| L_45 (75) av     | 1991  |
| L_45 (85) av     | 1262  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |

Table--1

UNIT: cd

| 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                  | 4162 | 4162 | 4162 | 4162   | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 |
| 5                  | 4006 | 4043 | 4062 | 4094   | 4106 | 4131 | 4139 | 4159 | 4156 | 4170 | 4161 | 4165 | 4141 | 4137 | 4107 | 4093 | 4050 | 4024 | 3989 |
| 10                 | 3510 | 3593 | 3637 | 3708   | 3734 | 3786 | 3796 | 3830 | 3818 | 3829 | 3794 | 3787 | 3730 | 3710 | 3627 | 3581 | 3497 | 3449 | 3388 |
| 15                 | 2647 | 2775 | 2825 | 2931   | 2960 | 3040 | 3042 | 3096 | 3065 | 3088 | 3024 | 3012 | 2926 | 2910 | 2785 | 2740 | 2614 | 2568 | 2489 |
| 20                 | 1719 | 1839 | 1880 | 1978   | 1986 | 2069 | 2060 | 2127 | 2074 | 2104 | 2032 | 2042 | 1956 | 1945 | 1825 | 1798 | 1685 | 1652 | 1584 |
| 25                 | 996  | 1078 | 1115 | 1178   | 1187 | 1242 | 1247 | 1280 | 1259 | 1284 | 1236 | 1235 | 1177 | 1152 | 1063 | 1031 | 943  | 911  | 860  |
| 30                 | 482  | 533  | 568  | 606    | 614  | 643  | 642  | 660  | 651  | 669  | 640  | 640  | 606  | 584  | 529  | 500  | 460  | 430  | 412  |
| 35                 | 142  | 182  | 191  | 227    | 247  | 263  | 273  | 283  | 273  | 285  | 260  | 265  | 238  | 224  | 203  | 180  | 159  | 142  | 135  |
| 40                 | 40.3 | 43.1 | 44.2 | 46.0   | 46.7 | 48.1 | 49.0 | 50.6 | 48.9 | 49.6 | 46.8 | 47.9 | 41.3 | 39.4 | 36.6 | 34.3 | 31.7 | 29.9 | 29.4 |
| 45                 | 8.92 | 11.3 | 13.2 | 18.3   | 20.7 | 24.5 | 25.9 | 27.6 | 27.2 | 27.4 | 26.3 | 25.6 | 24.2 | 23.5 | 22.2 | 21.5 | 18.9 | 18.6 | 18.2 |
| 50                 | 6.93 | 7.03 | 7.09 | 7.02   | 7.12 | 7.45 | 7.49 | 7.64 | 7.71 | 7.95 | 8.20 | 8.56 | 8.58 | 8.51 | 8.35 | 8.37 | 8.30 | 8.39 | 8.35 |
| 55                 | 5.87 | 5.98 | 6.09 | 6.17   | 6.27 | 6.34 | 6.49 | 6.48 | 6.53 | 6.64 | 6.79 | 7.05 | 7.20 | 7.22 | 7.25 | 7.32 | 7.53 | 7.46 | 7.48 |
| 60                 | 4.28 | 4.36 | 4.44 | 4.59   | 4.74 | 4.99 | 5.16 | 5.32 | 5.42 | 5.67 | 5.87 | 5.85 | 6.25 | 6.33 | 6.30 | 6.36 | 6.48 | 6.41 | 6.48 |
| 65                 | 3.52 | 3.51 | 3.59 | 3.61   | 3.72 | 3.79 | 3.96 | 4.11 | 4.32 | 4.49 | 4.38 | 4.71 | 4.60 | 5.30 | 5.39 | 5.37 | 5.48 | 5.50 | 5.52 |
| 70                 | 2.57 | 2.63 | 2.72 | 2.93   | 3.06 | 3.16 | 3.32 | 3.47 | 3.69 | 3.73 | 3.67 | 3.82 | 4.07 | 4.42 | 4.62 | 4.71 | 4.74 | 4.66 | 4.66 |
| 75                 | 1.62 | 1.64 | 1.74 | 1.80   | 1.92 | 2.03 | 2.20 | 2.36 | 2.56 | 2.59 | 2.67 | 2.83 | 3.14 | 3.20 | 3.20 | 3.17 | 3.12 | 3.05 | 3.03 |
| 80                 | 0.89 | 0.89 | 0.97 | 0.9983 | 1.10 | 1.17 | 1.30 | 1.39 | 1.49 | 1.52 | 1.46 | 1.63 | 1.88 | 1.87 | 1.86 | 1.82 | 1.78 | 1.73 | 1.72 |
| 85                 | 0.29 | 0.28 | 0.35 | 0.35   | 0.42 | 0.45 | 0.55 | 0.61 | 0.66 | 0.65 | 0.73 | 0.86 | 0.86 | 0.82 | 0.79 | 0.75 | 0.73 | 0.70 | 0.70 |
| 90                 | 0.01 | 0.02 | 0.03 | 0.03   | 0.02 | 0.01 | 0.03 | 0.01 | 0.05 | 0.12 | 0.12 | 0.03 | 0.04 | 0.02 | 0.03 | 0.01 | 0.02 | 0.01 | 0.02 |
| 95                 | 0.01 | 0.03 | 0.02 | 0.04   | 0.02 | 0.03 | 0.02 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 0.02 | 0.03 | 0.04 |
| 100                | 0.08 | 0.06 | 0.02 | 0.05   | 0.02 | 0.06 | 0.02 | 0.07 | 0.06 | 0.06 | 0.04 | 0.05 | 0.06 | 0.06 | 0.03 | 0.06 | 0.03 | 0.05 | 0.04 |
| 105                | 0.13 | 0.15 | 0.13 | 0.13   | 0.09 | 0.13 | 0.09 | 0.12 | 0.08 | 0.13 | 0.09 | 0.13 | 0.09 | 0.14 | 0.10 | 0.14 | 0.14 | 0.16 | 0.08 |
| 110                | 0.36 | 0.36 | 0.31 | 0.32   | 0.27 | 0.30 | 0.27 | 0.28 | 0.27 | 0.28 | 0.27 | 0.30 | 0.28 | 0.33 | 0.31 | 0.36 | 0.35 | 0.42 | 0.16 |
| 115                | 0.84 | 0.79 | 0.72 | 0.71   | 0.64 | 0.65 | 0.60 | 0.62 | 0.61 | 0.63 | 0.63 | 0.67 | 0.66 | 0.71 | 0.72 | 0.80 | 0.84 | 0.90 | 0.38 |
| 120                | 1.60 | 1.54 | 1.45 | 1.39   | 1.33 | 1.29 | 1.25 | 1.24 | 1.22 | 1.24 | 1.25 | 1.29 | 1.33 | 1.38 | 1.44 | 1.53 | 1.59 | 1.69 | 0.81 |
| 125                | 2.78 | 2.65 | 2.56 | 2.44   | 2.37 | 2.30 | 2.25 | 2.22 | 2.23 | 2.21 | 2.24 | 2.28 | 2.36 | 2.44 | 2.53 | 2.64 | 2.77 | 2.86 | 1.55 |
| 130                | 4.31 | 4.14 | 4.03 | 3.88   | 3.80 | 3.70 | 3.66 | 3.60 | 3.61 | 3.59 | 3.66 | 3.68 | 3.79 | 3.87 | 4.01 | 4.11 | 4.28 | 4.39 | 2.67 |
| 135                | 6.09 | 5.89 | 5.78 | 5.61   | 5.53 | 5.39 | 5.36 | 5.29 | 5.30 | 5.28 | 5.35 | 5.38 | 5.50 | 5.59 | 5.73 | 5.84 | 6.04 | 6.16 | 4.17 |
| 140                | 7.96 | 7.76 | 7.63 | 7.46   | 7.37 | 7.24 | 7.20 | 7.13 | 7.14 | 7.12 | 7.19 | 7.22 | 7.35 | 7.42 | 7.57 | 7.70 | 7.88 | 8.00 | 5.96 |
| 145                | 9.73 | 9.55 | 9.43 | 9.27   | 9.18 | 9.06 | 9.03 | 8.97 | 8.98 | 8.96 | 9.02 | 9.05 | 9.16 | 9.22 | 9.36 | 9.46 | 9.62 | 9.74 | 7.81 |
| 150                | 11.1 | 11.0 | 10.9 | 10.8   | 10.7 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.7 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 9.52 |
| 155                | 12.1 | 12.0 | 11.9 | 11.9   | 11.8 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.8 | 11.9 | 11.9 | 12.0 | 10.9 |
| 160                | 12.4 | 12.4 | 12.3 | 12.2   | 12.2 | 12.3 | 12.2 | 12.3 | 12.2 | 12.2 | 12.2 | 12.2 | 12.1 | 12.1 | 12.2 | 12.2 | 12.2 | 12.2 | 11.5 |
| 165                | 12.2 | 12.2 | 12.2 | 12.2   | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.1 | 12.1 | 12.0 | 12.0 | 12.0 | 11.9 | 11.9 | 11.9 | 11.9 | 11.6 |
| 170                | 11.7 | 11.8 | 11.8 | 11.8   | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.7 | 11.6 | 11.5 | 11.5 | 11.5 | 11.4 | 11.4 | 11.3 | 11.3 |
| 175                | 11.4 | 11.4 | 11.4 | 11.4   | 11.5 | 11.5 | 11.5 | 11.5 | 11.4 | 11.3 | 11.3 | 11.3 | 11.2 | 11.2 | 11.2 | 11.1 | 11.1 | 10.9 | 11.2 |
| 180                | 11.4 | 11.4 | 11.4 | 11.4   | 11.4 | 11.4 | 11.4 | 11.3 | 11.3 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.1 | 11.0 | 11.4 |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                        |          |                   |
|------------------------|----------|-------------------|
| NAME: MCR-3 (16W, 36°) | TYPE:LED | WEIGHT:           |
| SPEC.:                 | DIM.:    | SERIAL No.:1      |
| MFR.: Utopia Lighting  | SUR.:    | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C (DEG)<br>γ (DEG) | 190  | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  | 300  | 310  | 320  | 330  | 340  | 350  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0                  | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 | 4162 |  |  |
| 5                  | 3940 | 3918 | 3874 | 3858 | 3824 | 3821 | 3799 | 3808 | 3797 | 3818 | 3820 | 3849 | 3864 | 3899 | 3917 | 3957 | 3978 |  |  |
| 10                 | 3298 | 3257 | 3173 | 3146 | 3082 | 3080 | 3036 | 3052 | 3038 | 3086 | 3089 | 3153 | 3180 | 3259 | 3300 | 3395 | 3443 |  |  |
| 15                 | 2373 | 2339 | 2239 | 2213 | 2136 | 2137 | 2086 | 2111 | 2084 | 2134 | 2135 | 2211 | 2234 | 2338 | 2379 | 2500 | 2556 |  |  |
| 20                 | 1475 | 1441 | 1355 | 1336 | 1276 | 1269 | 1232 | 1245 | 1236 | 1273 | 1287 | 1341 | 1366 | 1451 | 1491 | 1593 | 1644 |  |  |
| 25                 | 785  | 763  | 707  | 692  | 652  | 651  | 631  | 643  | 636  | 669  | 673  | 724  | 741  | 802  | 832  | 901  | 936  |  |  |
| 30                 | 369  | 356  | 306  | 301  | 267  | 273  | 256  | 267  | 260  | 282  | 280  | 313  | 325  | 359  | 379  | 414  | 439  |  |  |
| 35                 | 116  | 103  | 80.0 | 75.5 | 64.1 | 63.9 | 54.8 | 57.2 | 54.2 | 59.1 | 56.2 | 66.2 | 67.7 | 77.2 | 89.0 | 106  | 128  |  |  |
| 40                 | 27.6 | 27.0 | 26.1 | 26.0 | 25.7 | 26.0 | 26.1 | 26.6 | 26.8 | 27.9 | 28.5 | 29.5 | 30.2 | 31.6 | 32.8 | 35.4 | 37.5 |  |  |
| 45                 | 15.2 | 14.5 | 12.7 | 11.8 | 10.3 | 9.74 | 9.45 | 9.27 | 9.53 | 11.4 | 15.1 | 13.8 | 9.42 | 8.79 | 8.46 | 8.44 | 8.46 |  |  |
| 50                 | 8.30 | 7.99 | 7.95 | 7.84 | 7.71 | 7.53 | 7.44 | 7.54 | 7.54 | 8.53 | 9.16 | 8.14 | 7.14 | 6.86 | 6.83 | 6.72 | 6.67 |  |  |
| 55                 | 7.37 | 7.24 | 7.16 | 7.05 | 6.78 | 6.63 | 6.54 | 6.50 | 6.36 | 6.92 | 7.14 | 6.16 | 5.80 | 5.77 | 5.69 | 5.78 | 5.71 |  |  |
| 60                 | 6.38 | 6.24 | 6.03 | 5.84 | 5.65 | 5.48 | 5.34 | 5.10 | 4.86 | 4.64 | 4.52 | 4.37 | 4.28 | 4.19 | 4.16 | 4.11 | 4.14 |  |  |
| 65                 | 5.48 | 5.34 | 5.25 | 5.04 | 4.90 | 4.68 | 4.52 | 4.31 | 4.16 | 3.98 | 3.86 | 3.70 | 3.65 | 3.54 | 3.53 | 3.47 | 3.50 |  |  |
| 70                 | 4.58 | 4.46 | 4.27 | 4.09 | 3.86 | 3.66 | 3.45 | 3.26 | 3.08 | 2.93 | 2.79 | 2.67 | 2.62 | 2.56 | 2.53 | 2.52 | 2.54 |  |  |
| 75                 | 2.93 | 2.83 | 2.71 | 2.58 | 2.44 | 2.30 | 2.18 | 2.03 | 1.92 | 1.80 | 1.72 | 1.64 | 1.61 | 1.57 | 1.58 | 1.56 | 1.59 |  |  |
| 80                 | 1.67 | 1.59 | 1.54 | 1.43 | 1.36 | 1.24 | 1.19 | 1.08 | 1.04 | 0.93 | 0.91 | 0.85 | 0.86 | 0.80 | 0.83 | 0.80 | 0.86 |  |  |
| 85                 | 0.67 | 0.62 | 0.59 | 0.52 | 0.49 | 0.41 | 0.40 | 0.35 | 0.36 | 0.27 | 0.27 | 0.22 | 0.25 | 0.22 | 0.25 | 0.23 | 0.28 |  |  |
| 90                 | 0.03 | 0.02 | 0.04 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 |  |  |
| 95                 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.06 | 0.05 | 0.03 | 0.04 | 0.03 | 0.04 | 0.03 | 0.05 | 0.04 |  |  |
| 100                | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.06 | 0.06 | 0.10 | 0.07 | 0.07 | 0.03 | 0.05 | 0.03 | 0.06 | 0.03 | 0.05 | 0.04 |  |  |
| 105                | 0.05 | 0.08 | 0.06 | 0.09 | 0.09 | 0.14 | 0.12 | 0.14 | 0.14 | 0.14 | 0.07 | 0.10 | 0.07 | 0.09 | 0.06 | 0.08 | 0.06 |  |  |
| 110                | 0.14 | 0.18 | 0.15 | 0.20 | 0.21 | 0.25 | 0.21 | 0.28 | 0.24 | 0.27 | 0.23 | 0.23 | 0.17 | 0.18 | 0.13 | 0.16 | 0.14 |  |  |
| 115                | 0.37 | 0.42 | 0.42 | 0.46 | 0.45 | 0.49 | 0.52 | 0.52 | 0.53 | 0.55 | 0.51 | 0.47 | 0.42 | 0.41 | 0.36 | 0.37 | 0.30 |  |  |
| 120                | 0.85 | 0.90 | 0.92 | 0.97 | 0.99 | 1.02 | 1.02 | 1.03 | 1.02 | 1.01 | 0.99 | 0.96 | 0.93 | 0.86 | 0.80 | 0.77 | 0.71 |  |  |
| 125                | 1.61 | 1.69 | 1.75 | 1.81 | 1.86 | 1.89 | 1.91 | 1.91 | 1.89 | 1.86 | 1.82 | 1.77 | 1.76 | 1.62 | 1.59 | 1.49 | 1.39 |  |  |
| 130                | 2.79 | 2.91 | 3.01 | 3.06 | 3.17 | 3.18 | 3.25 | 3.23 | 3.24 | 3.18 | 3.11 | 3.01 | 2.98 | 2.79 | 2.72 | 2.58 | 2.46 |  |  |
| 135                | 4.35 | 4.46 | 4.60 | 4.66 | 4.78 | 4.81 | 4.88 | 4.86 | 4.88 | 4.80 | 4.78 | 4.64 | 4.54 | 4.32 | 4.23 | 4.05 | 3.91 |  |  |
| 140                | 6.12 | 6.23 | 6.41 | 6.47 | 6.60 | 6.63 | 6.72 | 6.68 | 6.70 | 6.61 | 6.58 | 6.41 | 6.31 | 6.11 | 6.00 | 5.80 | 5.67 |  |  |
| 145                | 7.98 | 8.08 | 8.24 | 8.31 | 8.44 | 8.47 | 8.55 | 8.51 | 8.52 | 8.42 | 8.37 | 8.22 | 8.11 | 7.92 | 7.81 | 7.62 | 7.50 |  |  |
| 150                | 9.65 | 9.75 | 9.86 | 9.92 | 10.0 | 10.0 | 10.1 | 10.1 | 10.1 | 10.0 | 9.95 | 9.80 | 9.72 | 9.57 | 9.47 | 9.32 | 9.22 |  |  |
| 155                | 10.9 | 11.0 | 11.0 | 11.0 | 11.0 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.0 | 10.9 | 10.8 | 10.7 | 10.7 | 10.6 | 10.6 |  |  |
| 160                | 11.5 | 11.5 | 11.5 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.3 | 11.4 | 11.3 | 11.3 | 11.3 | 11.2 | 11.2 | 11.2 |  |  |
| 165                | 11.6 | 11.5 | 11.5 | 11.4 | 11.3 | 11.2 | 11.3 | 11.2 | 11.3 | 11.2 | 11.3 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.3 |  |  |
| 170                | 11.3 | 11.2 | 11.2 | 11.1 | 11.0 | 10.9 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.9 | 11.0 | 10.9 | 11.0 | 11.0 | 11.0 |  |  |
| 175                | 11.1 | 11.2 | 11.2 | 11.1 | 11.1 | 11.0 | 11.0 | 10.9 | 10.9 | 10.9 | 11.0 | 11.0 | 10.9 | 10.9 | 10.8 | 10.8 | 10.8 |  |  |
| 180                | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.3 | 11.3 | 11.2 | 11.2 | 11.1 | 11.2 | 11.2 | 11.2 | 11.1 | 11.1 | 11.0 |  |  |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2025-11-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.050m [K=1.0000]  
Remarks: