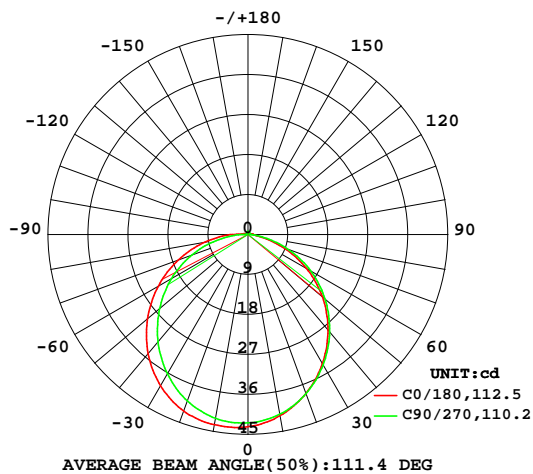


## LUMINAIRE PHOTOMETRIC TEST REPORT

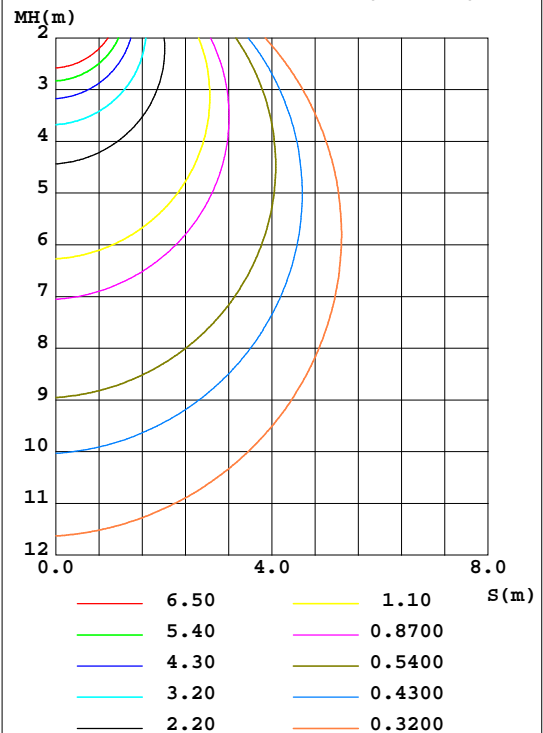
|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

| DATA OF LAMP     |          | PHOTOMETRIC DATA Eff: 20.46 lm/W |        |                   |          |
|------------------|----------|----------------------------------|--------|-------------------|----------|
| MODEL            | NM3D1515 | I <sub>max</sub> (cd)            | 43.57  | S/MH(C0/180)      | 1.34     |
| NOMINAL POWER(W) | 7.2      | LOR(%)                           | 100.0  | S/MH(C90/270)     | 1.27     |
| RATED VOLTAGE(V) | 24       | TOTAL FLUX(lm)                   | 126.84 | h UP,DN(C0-180)   | 1.5,42.5 |
| NOMINAL FLUX(lm) | 126.836  | CIE CLASS                        | DIRECT | h UP,DN(C180-360) | 1.5,54.5 |
| LAMPS INSIDE     | 1        | h up(%)                          | 3.0    | CIBSE SHR NOM     | 1.25     |
| TEST VOLTAGE(V)  | 24       | h down(%)                        | 97.0   | CIBSE SHR MAX     | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

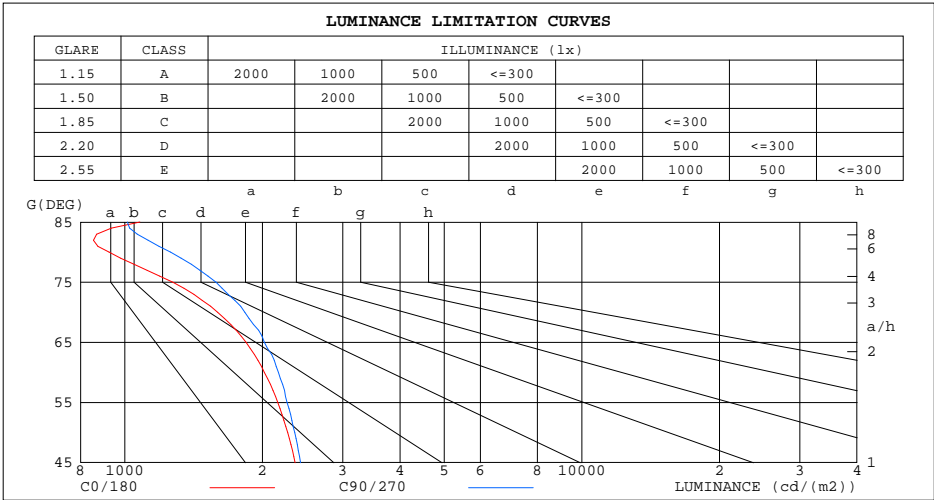
| g   | C0                    | C90    | C180   | C270   |  |  |  |  | g       | F zone  | F total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--|--|--|--|---------|---------|---------|-----------|
| 10  | 41.43                 | 41.08  | 43.47  | 42.03  |  |  |  |  | 0~ 10   | 4.049   | 4.049   | 3.19,3.19 |
| 20  | 38.11                 | 38.15  | 42.29  | 39.89  |  |  |  |  | 10~ 20  | 11.57   | 15.62   | 12.3,12.3 |
| 30  | 33.55                 | 33.87  | 39.36  | 36.27  |  |  |  |  | 20~ 30  | 17.44   | 33.06   | 26.1,26.1 |
| 40  | 28.05                 | 28.64  | 34.97  | 31.51  |  |  |  |  | 30~ 40  | 20.89   | 53.95   | 42.5,42.5 |
| 50  | 21.91                 | 22.72  | 29.54  | 25.95  |  |  |  |  | 40~ 50  | 21.59   | 75.54   | 59.6,59.6 |
| 60  | 15.15                 | 16.26  | 23.35  | 19.87  |  |  |  |  | 50~ 60  | 19.58   | 95.12   | 75,75     |
| 70  | 8.191                 | 9.398  | 16.68  | 13.37  |  |  |  |  | 60~ 70  | 15.14   | 110.3   | 86.9,86.9 |
| 80  | 2.407                 | 3.281  | 9.766  | 6.697  |  |  |  |  | 70~ 80  | 9.091   | 119.4   | 94.1,94.1 |
| 90  | 1.288                 | 0.7981 | 3.507  | 1.435  |  |  |  |  | 80~ 90  | 3.660   | 123.0   | 97,97     |
| 100 | 0.8828                | 0.4950 | 1.127  | 0.4318 |  |  |  |  | 90~100  | 1.198   | 124.2   | 97.9,97.9 |
| 110 | 0.4381                | 0.5444 | 0.4557 | 0.3463 |  |  |  |  | 100~110 | 0.6215  | 124.8   | 98.4,98.4 |
| 120 | 0.4015                | 0.5509 | 0.3789 | 0.3473 |  |  |  |  | 110~120 | 0.4207  | 125.3   | 98.8,98.8 |
| 130 | 0.4759                | 0.5504 | 0.4056 | 0.3869 |  |  |  |  | 120~130 | 0.3878  | 125.6   | 99.1,99.1 |
| 140 | 0.5214                | 0.5454 | 0.4764 | 0.4185 |  |  |  |  | 130~140 | 0.3642  | 126.0   | 99.3,99.3 |
| 150 | 0.5884                | 0.5472 | 0.5407 | 0.5035 |  |  |  |  | 140~150 | 0.3264  | 126.3   | 99.6,99.6 |
| 160 | 0.6035                | 0.6312 | 0.5724 | 0.5772 |  |  |  |  | 150~160 | 0.2609  | 126.6   | 99.8,99.8 |
| 170 | 0.6051                | 0.7352 | 0.5823 | 0.7160 |  |  |  |  | 160~170 | 0.1752  | 126.8   | 99.9,99.9 |
| 180 | 0.6116                | 0.7790 | 0.5987 | 0.7532 |  |  |  |  | 170~180 | 0.0638  | 126.8   | 100,100   |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |  |  |  |  |         | UNIT:lm |         |           |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(180)            | C0/180 | C90/270 |
| 85                | 1078   | 1014    |
| 80                | 924    | 1260    |
| 75                | 1275   | 1583    |
| 70                | 1597   | 1832    |
| 65                | 1842   | 2022    |
| 60                | 2020   | 2168    |
| 55                | 2161   | 2265    |
| 50                | 2272   | 2356    |
| 45                | 2360   | 2426    |

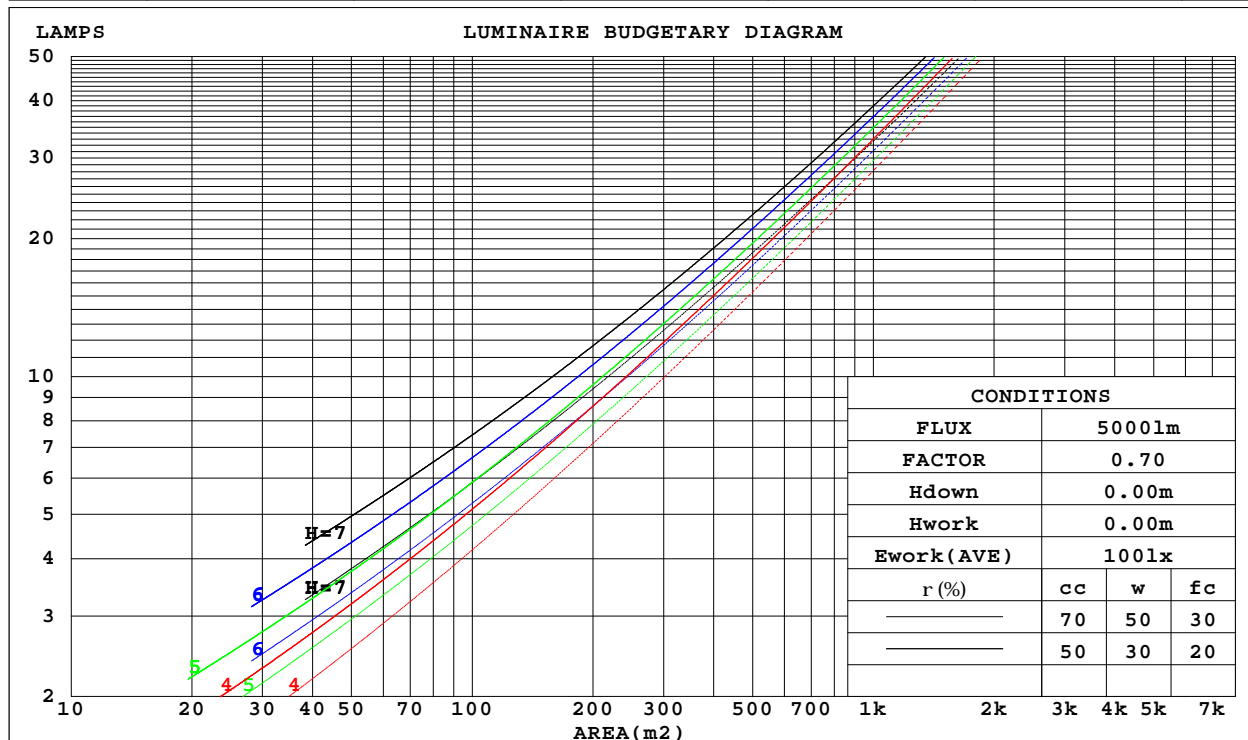
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

| r <sub>cc</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10% |     |     | 0   |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| r <sub>w</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| r <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |
| 0.0             | 1.18                  | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09                            | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0             | 1.03                  | .98  | .94  | 1.00 | .96  | .92  | .95                             | .92  | .89  | .91  | .88  | .86  | .87 | .84 | .82 | .80 |
| 2.0             | .89                   | .82  | .76  | .87  | .81  | .75  | .83                             | .78  | .73  | .79  | .75  | .71  | .76 | .72 | .69 | .66 |
| 3.0             | .78                   | .70  | .63  | .76  | .69  | .62  | .73                             | .66  | .61  | .70  | .64  | .60  | .67 | .62 | .58 | .56 |
| 4.0             | .69                   | .60  | .53  | .68  | .59  | .53  | .65                             | .58  | .52  | .62  | .56  | .51  | .60 | .54 | .50 | .48 |
| 5.0             | .62                   | .53  | .46  | .60  | .52  | .46  | .58                             | .51  | .45  | .56  | .49  | .44  | .54 | .48 | .43 | .41 |
| 6.0             | .56                   | .47  | .40  | .54  | .46  | .40  | .52                             | .45  | .39  | .50  | .44  | .39  | .49 | .43 | .38 | .36 |
| 7.0             | .50                   | .42  | .35  | .49  | .41  | .35  | .48                             | .40  | .35  | .46  | .39  | .34  | .44 | .38 | .34 | .32 |
| 8.0             | .46                   | .37  | .32  | .45  | .37  | .31  | .44                             | .36  | .31  | .42  | .35  | .31  | .41 | .35 | .30 | .28 |
| 9.0             | .42                   | .34  | .28  | .41  | .34  | .28  | .40                             | .33  | .28  | .39  | .32  | .28  | .38 | .32 | .27 | .25 |
| 10.0            | .39                   | .31  | .26  | .38  | .31  | .26  | .37                             | .30  | .25  | .36  | .30  | .25  | .35 | .29 | .25 | .23 |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:COLORS  
 Test Date:2019-07-01

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.750m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

|      |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| rcc  | 80%   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
| rw   | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| rfc  | 20%   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 1.0  | .321  | .182 | .058 | .313 | .178 | .057 | .298 | .171 | .055 | .284 | .164 | .053 | .271 | .157 | .051 |   |
| 2.0  | .297  | .163 | .050 | .290 | .160 | .049 | .277 | .154 | .048 | .264 | .148 | .046 | .253 | .143 | .045 |   |
| 3.0  | .273  | .145 | .043 | .267 | .143 | .043 | .255 | .138 | .042 | .244 | .134 | .041 | .234 | .129 | .040 |   |
| 4.0  | .251  | .130 | .038 | .245 | .128 | .038 | .235 | .124 | .037 | .225 | .121 | .036 | .216 | .117 | .036 |   |
| 5.0  | .231  | .118 | .034 | .226 | .116 | .034 | .217 | .113 | .033 | .208 | .110 | .033 | .200 | .107 | .032 |   |
| 6.0  | .214  | .107 | .031 | .210 | .106 | .030 | .201 | .103 | .030 | .193 | .100 | .030 | .186 | .098 | .029 |   |
| 7.0  | .199  | .098 | .028 | .195 | .097 | .028 | .187 | .095 | .027 | .180 | .092 | .027 | .174 | .090 | .027 |   |
| 8.0  | .186  | .091 | .026 | .182 | .090 | .025 | .175 | .088 | .025 | .169 | .086 | .025 | .163 | .084 | .024 |   |
| 9.0  | .174  | .084 | .023 | .171 | .083 | .023 | .164 | .081 | .023 | .159 | .080 | .023 | .153 | .078 | .022 |   |
| 10.0 | .163  | .078 | .022 | .160 | .078 | .022 | .155 | .076 | .021 | .150 | .074 | .021 | .144 | .073 | .021 |   |

|      |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| rcc  | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
| rw   | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| rfc  | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  | .213   | .213 | .213 | .182 | .182 | .182 | .124 | .124 | .124 | .072 | .072 | .072 | .023 | .023 | .023 |   |
| 1.0  | .204   | .179 | .157 | .175 | .154 | .135 | .120 | .106 | .093 | .069 | .061 | .054 | .022 | .020 | .018 |   |
| 2.0  | .196   | .155 | .121 | .168 | .134 | .104 | .115 | .092 | .073 | .066 | .054 | .043 | .021 | .017 | .014 |   |
| 3.0  | .188   | .138 | .097 | .162 | .119 | .084 | .111 | .083 | .059 | .064 | .048 | .035 | .021 | .016 | .011 |   |
| 4.0  | .181   | .125 | .082 | .155 | .108 | .071 | .107 | .075 | .050 | .062 | .044 | .030 | .020 | .014 | .010 |   |
| 5.0  | .173   | .114 | .071 | .149 | .099 | .061 | .103 | .069 | .043 | .059 | .041 | .026 | .019 | .013 | .008 |   |
| 6.0  | .166   | .106 | .063 | .143 | .092 | .055 | .098 | .064 | .039 | .057 | .038 | .023 | .018 | .012 | .008 |   |
| 7.0  | .159   | .099 | .057 | .137 | .086 | .050 | .095 | .060 | .035 | .055 | .035 | .021 | .018 | .012 | .007 |   |
| 8.0  | .153   | .093 | .052 | .131 | .081 | .046 | .091 | .057 | .032 | .053 | .034 | .019 | .017 | .011 | .006 |   |
| 9.0  | .147   | .088 | .049 | .126 | .077 | .043 | .088 | .054 | .030 | .051 | .032 | .018 | .017 | .010 | .006 |   |
| 10.0 | .141   | .084 | .046 | .121 | .073 | .040 | .084 | .051 | .029 | .049 | .030 | .017 | .016 | .010 | .006 |   |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

|   |                  |      |      |      |                    |                |      |                  |      |      |      |
|---|------------------|------|------|------|--------------------|----------------|------|------------------|------|------|------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                  |      |      |      |                    |                |      |                  |      |      |      |
| NAME: NM3D1515  |                  |      |      |      | TYPE:              |                |      | WEIGHT:          |      |      |      |
| SPEC.:NM3D1515-0R24CSNO50CC0100   |                  |      |      |      | DIM.: 1000*15*15mm |                |      | SERIAL No.:      |      |      |      |
| MFR.: Colors  |                  |      |      |      | SUR.:1000*15       |                |      | 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   | 22.0             | 23.5 | 22.3 | 23.7 | 24.0               | 22.2           | 23.7 | 22.5             | 23.9 | 24.2 |      |
|   | 3H               | 23.1 | 24.5 | 23.5 | 24.8               | 25.1           | 23.5 | 24.9             | 23.8 | 25.2 | 25.5 |
|   | 4H               | 23.5 | 24.8 | 23.8 | 25.1               | 25.4           | 23.9 | 25.3             | 24.3 | 25.6 | 25.9 |
|   | 6H               | 23.6 | 24.9 | 24.0 | 25.2               | 25.5           | 24.2 | 25.4             | 24.6 | 25.8 | 26.1 |
|   | 8H               | 23.7 | 24.8 | 24.0 | 25.2               | 25.5           | 24.3 | 25.5             | 24.6 | 25.8 | 26.1 |
|   | 12H              | 23.7 | 24.8 | 24.1 | 25.2               | 25.5           | 24.3 | 25.4             | 24.7 | 25.8 | 26.1 |
| 4H  | 2H               | 22.5 | 23.8 | 22.9 | 24.1               | 24.4           | 22.7 | 24.0             | 23.0 | 24.3 | 24.6 |
|   | 3H               | 23.8 | 25.0 | 24.2 | 25.3               | 25.7           | 24.1 | 25.3             | 24.5 | 25.6 | 26.0 |
|   | 4H               | 24.3 | 25.3 | 24.7 | 25.7               | 26.1           | 24.7 | 25.7             | 25.1 | 26.1 | 26.5 |
|   | 6H               | 24.5 | 25.4 | 25.0 | 25.8               | 26.3           | 25.0 | 26.0             | 25.5 | 26.4 | 26.8 |
|   | 8H               | 24.6 | 25.4 | 25.0 | 25.9               | 26.3           | 25.1 | 26.0             | 25.6 | 26.4 | 26.9 |
|   | 12H              | 24.6 | 25.4 | 25.1 | 25.9               | 26.3           | 25.2 | 26.0             | 25.7 | 26.4 | 26.9 |
| 8H  | 4H               | 24.4 | 25.3 | 24.9 | 25.7               | 26.2           | 24.8 | 25.7             | 25.3 | 26.1 | 26.6 |
|   | 6H               | 24.8 | 25.5 | 25.3 | 26.0               | 26.4           | 25.3 | 26.0             | 25.8 | 26.5 | 27.0 |
|   | 8H               | 24.9 | 25.5 | 25.4 | 26.0               | 26.5           | 25.4 | 26.1             | 25.9 | 26.6 | 27.1 |
|   | 12H              | 25.0 | 25.6 | 25.5 | 26.1               | 26.6           | 25.5 | 26.1             | 26.1 | 26.6 | 27.1 |
| 12H   | 4H               | 24.4 | 25.2 | 24.9 | 25.7               | 26.1           | 24.8 | 25.6             | 25.3 | 26.0 | 26.5 |
|   | 6H               | 24.8 | 25.4 | 25.3 | 25.9               | 26.4           | 25.3 | 25.9             | 25.8 | 26.4 | 26.9 |
|   | 8H               | 24.9 | 25.5 | 25.5 | 26.0               | 26.5           | 25.5 | 26.0             | 26.0 | 26.5 | 27.1 |
| Variations with the observer position at spacings:                        |                  |      |      |      |                    |                |      |                  |      |      |      |
| S = 1.0H  | + 0.2 / - 0.3    |      |      |      |                    | + 0.2 / - 0.2  |      |                  |      |      |      |
| 1.5H  | + 0.2 / - 0.4    |      |      |      |                    | + 0.2 / - 0.3  |      |                  |      |      |      |
| 2.0H  | + 0.3 / - 0.4    |      |      |      |                    | + 0.3 / - 0.3  |      |                  |      |      |      |

CIE Pub.117, 126.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.2)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

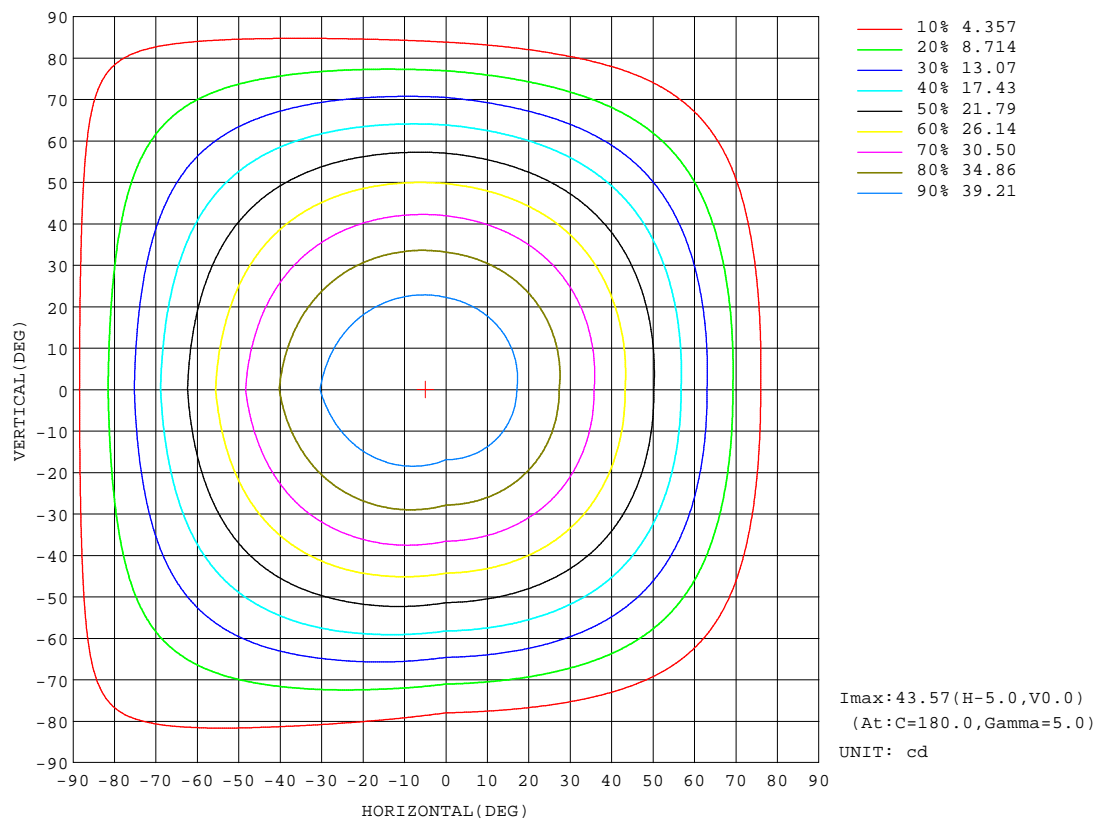
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 56  | 45  | 38        | 55  | 44  | 37  | 54  | 44            | 37  | 31     |
| 0.80                             | 66  | 54  | 47        | 65  | 54  | 47  | 63  | 53            | 46  | 39     |
| 1.00                             | 74  | 63  | 56        | 73  | 62  | 55  | 71  | 64            | 55  | 47     |
| 1.25                             | 81  | 71  | 63        | 80  | 70  | 63  | 77  | 68            | 62  | 54     |
| 1.50                             | 86  | 76  | 69        | 85  | 75  | 68  | 81  | 73            | 67  | 59     |
| 2.00                             | 93  | 84  | 78        | 91  | 83  | 77  | 87  | 81            | 75  | 67     |
| 2.50                             | 97  | 89  | 83        | 95  | 88  | 82  | 91  | 85            | 80  | 71     |
| 3.00                             | 101   | 93  | 88        | 98  | 92  | 86  | 94  | 88            | 84  | 75     |
| 4.00                             | 105   | 99  | 94        | 102 | 97  | 92  | 97  | 93            | 89  | 79     |
| 5.00                             | 107   | 102 | 98        | 105 | 100 | 96  | 100 | 96            | 93  | 82     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

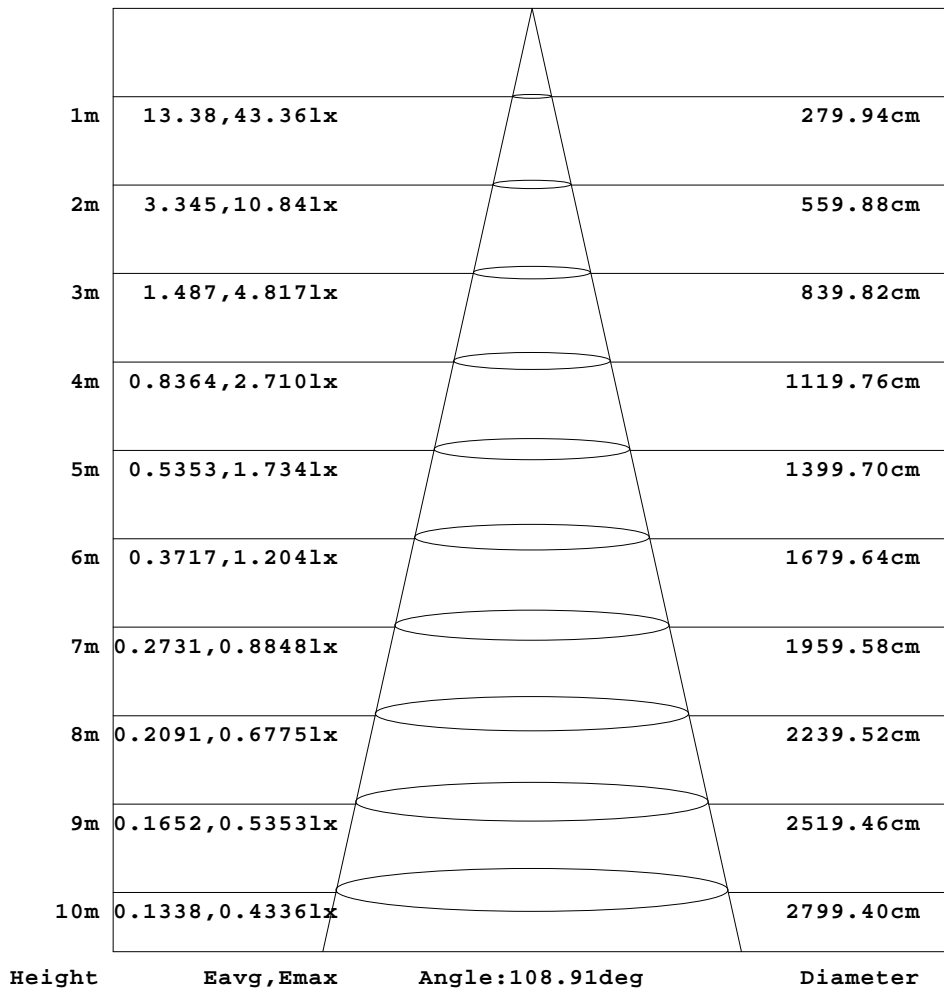
Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:



### AAI Figure

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

Flux out:85.74 lm



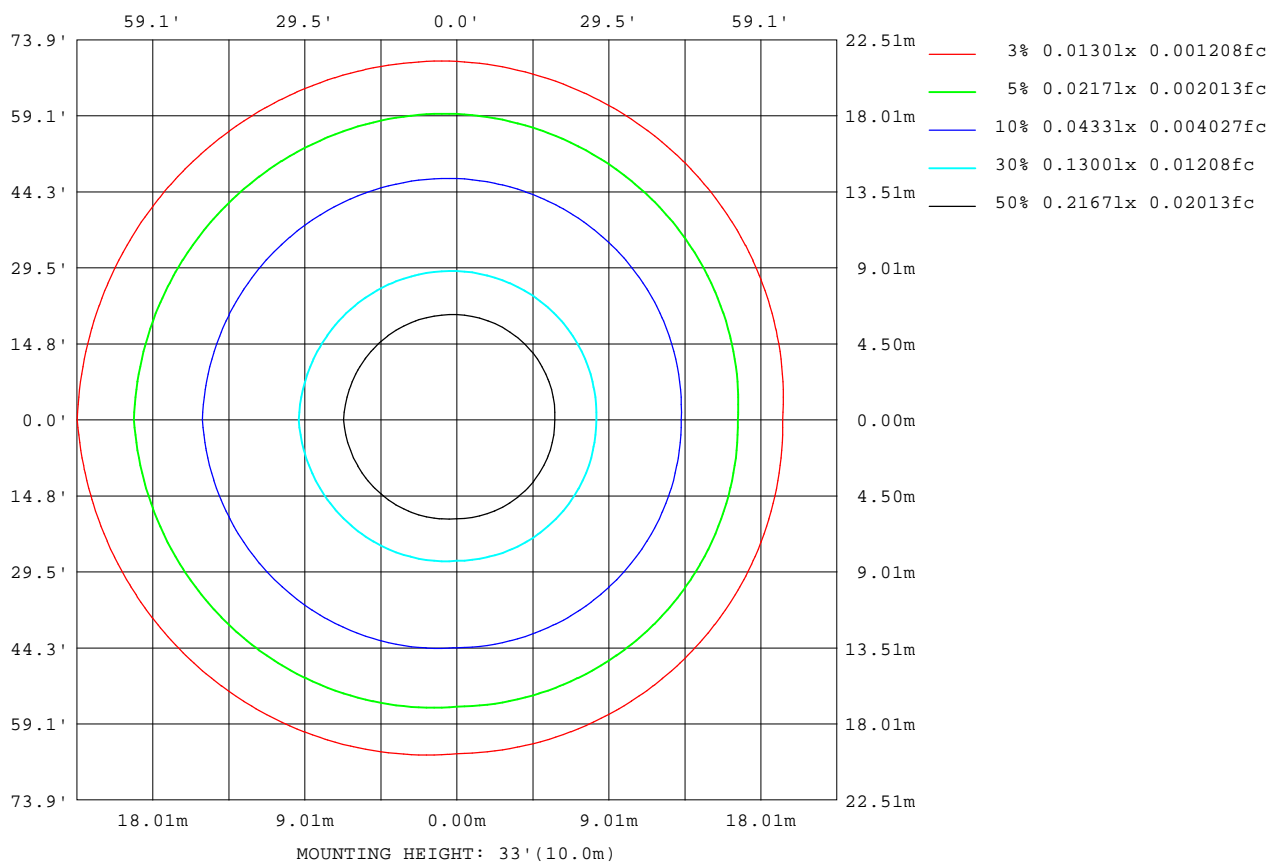
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: COLORS  
 Test Date: 2019-07-01

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 10.750m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

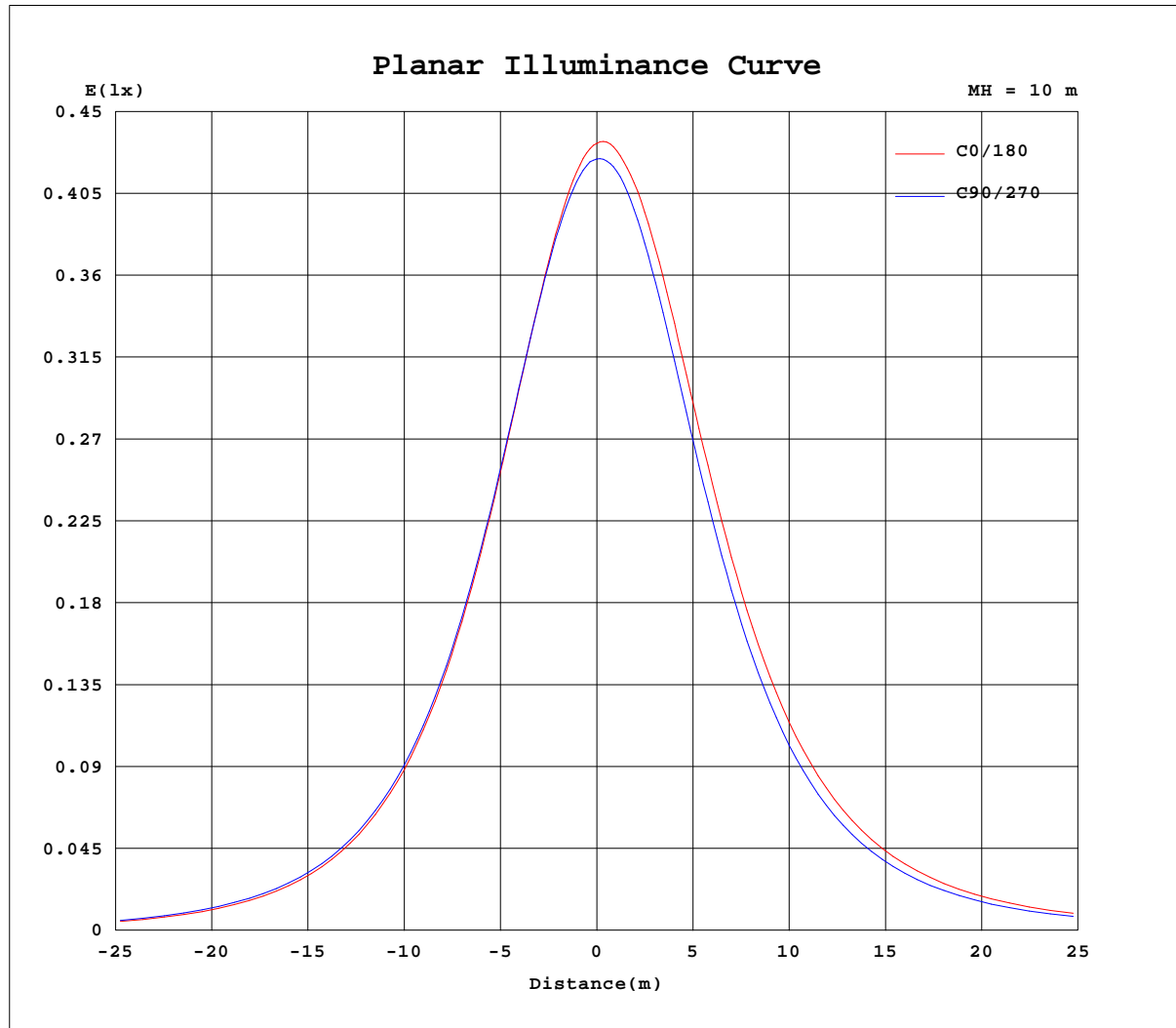
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 2502  |
| L_0~180(75)av  | 2339  |
| L_0~180(85)av  | 3007  |
| L_90~270(65)av | 2326  |
| L_90~270(75)av | 2079  |
| L_90~270(85)av | 1900  |
| L_45(65)av     | 2433  |
| L_45(75)av     | 2243  |
| L_45(85)av     | 2436  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:COLORS  
 Test Date:2019-07-01

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.750m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: COLORS  
Test Date: 2019-07-01

deg Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.750m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:24.00V I:0.2590A P:6.200W PF:1.000 Freq:0Hz Lamp Flux:126.836x1 lm |                    |                  |
| NAME: NM3D1515  | TYPE:              | WEIGHT:          |
| SPEC.:NM3D1515-0R24CSNO50CC0100   | DIM.: 1000*15*15mm | SERIAL No.:      |
| MFR.: Colors  | SUR.:1000*15       | Shielding Angle: |

Table--1

UNIT: cd

| C(DEC)<br>g (DEC) | 0    | 90   | 180  | 270   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 43.3 | 42.4 | 43.3 | 42.4  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 42.6 | 42.0 | 43.6 | 42.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 41.4 | 41.1 | 43.5 | 42.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 39.9 | 39.8 | 43.1 | 41.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 38.1 | 38.1 | 42.3 | 39.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 36.0 | 36.2 | 41.0 | 38.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 33.5 | 33.9 | 39.4 | 36.3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 30.9 | 31.4 | 37.3 | 34.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 28.0 | 28.6 | 35.0 | 31.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 25.0 | 25.7 | 32.4 | 28.8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 21.9 | 22.7 | 29.5 | 25.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 18.6 | 19.5 | 26.5 | 23.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 15.2 | 16.3 | 23.4 | 19.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 11.7 | 12.8 | 20.0 | 16.7  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 8.19 | 9.40 | 16.7 | 13.4  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 4.95 | 6.14 | 13.2 | 10.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 2.41 | 3.28 | 9.77 | 6.70  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 1.41 | 1.33 | 6.45 | 3.64  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 1.29 | 0.80 | 3.51 | 1.43  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 1.11 | 0.68 | 1.60 | 0.70  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 0.88 | 0.50 | 1.13 | 0.43  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 0.64 | 0.54 | 0.88 | 0.36  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 0.44 | 0.54 | 0.46 | 0.35  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 0.39 | 0.55 | 0.38 | 0.35  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 0.40 | 0.55 | 0.38 | 0.35  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 0.41 | 0.55 | 0.37 | 0.38  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 0.48 | 0.55 | 0.41 | 0.39  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 0.49 | 0.55 | 0.44 | 0.40  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 0.52 | 0.55 | 0.48 | 0.42  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 0.55 | 0.54 | 0.51 | 0.49  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 0.59 | 0.55 | 0.54 | 0.50  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 0.60 | 0.57 | 0.57 | 0.52  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 0.60 | 0.63 | 0.57 | 0.58  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 0.61 | 0.69 | 0.58 | 0.60  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 0.61 | 0.74 | 0.58 | 0.72  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 0.61 | 0.77 | 0.59 | 0.72  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 0.61 | 0.78 | 0.60 | 0.75  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-07-01

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.750m [K=1.0000]  
Remarks: