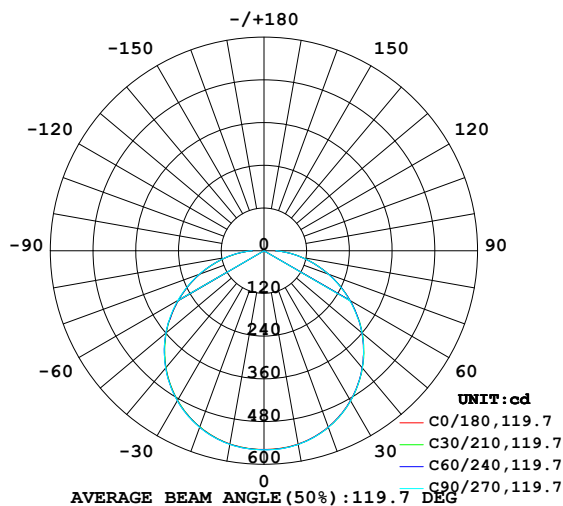


**LUMINAIRE PHOTOMETRIC TEST REPORT**

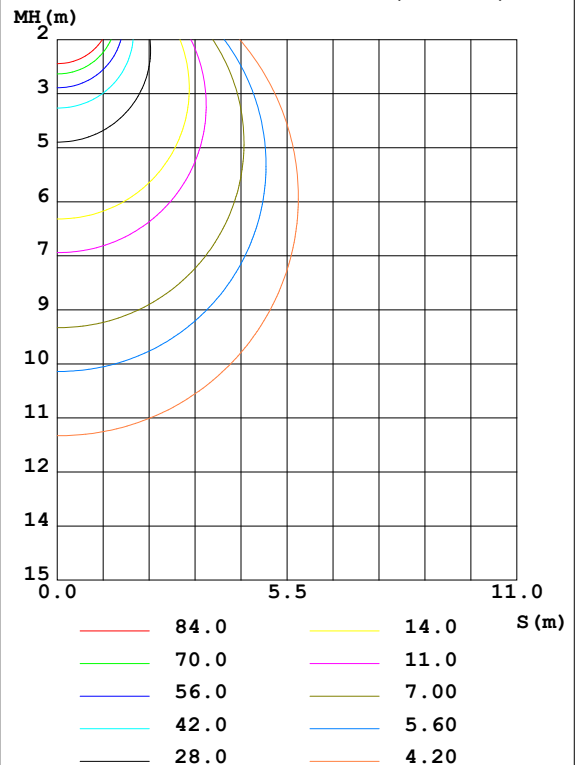
|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

| DATA OF LAMP      |       | PHOTOMETRIC DATA Eff: 96.44 lm/W |        |                     |           |
|-------------------|-------|----------------------------------|--------|---------------------|-----------|
| MODEL             | 3000K | I <sub>max</sub> (cd)            | 560.0  | S/MH (C0/180)       | 1.29      |
| NOMINAL POWER (W) | 24    | LOR (%)                          | 100.0  | S/MH (C90/270)      | 1.29      |
| RATED VOLTAGE (V) | 220   | TOTAL FLUX (lm)                  | 1787.0 | η UP, DN (C0-180)   | 0.0, 49.9 |
| NOMINAL FLUX (lm) | 1787  | CIE CLASS                        | DIRECT | η UP, DN (C180-360) | 0.0, 50.1 |
| LAMPS INSIDE      | 1     | η up (%)                         | 0.0    | CIBSE SHR NOM       | 1.50      |
| TEST VOLTAGE (V)  | 220   | η down (%)                       | 100.0  | CIBSE SHR MAX       | 1.50      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jasoan  
 Test Date:2022-10-14

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:58%  
 Test Distance:8.967m [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       | 551.1                 | 552.2 | 552.5 | 552.9 | 551.2 | 551.8 | 552.4 | 553.3 | 0- 10    | 53.06       | 53.06        | 2.97,2.97  |
| 20       | 527.0                 | 527.8 | 528.0 | 528.1 | 526.5 | 527.1 | 528.1 | 529.0 | 10- 20   | 153.1       | 206.2        | 11.5,11.5  |
| 30       | 485.6                 | 486.4 | 486.4 | 486.5 | 485.5 | 485.9 | 486.8 | 488.1 | 20- 30   | 234.8       | 441.0        | 24.7,24.7  |
| 40       | 429.2                 | 429.5 | 429.4 | 429.3 | 428.8 | 428.9 | 429.7 | 431.3 | 30- 40   | 287.8       | 728.8        | 40.8,40.8  |
| 50       | 359.1                 | 359.8 | 359.5 | 358.9 | 359.2 | 358.8 | 359.7 | 361.6 | 40- 50   | 305.6       | 1034         | 57.9,57.9  |
| 60       | 279.0                 | 278.9 | 277.4 | 277.5 | 276.9 | 277.6 | 279.3 | 280.5 | 50- 60   | 286.1       | 1320         | 73.9,73.9  |
| 70       | 193.2                 | 193.2 | 191.9 | 191.6 | 191.5 | 192.1 | 193.7 | 195.0 | 60- 70   | 233.6       | 1554         | 87,87      |
| 80       | 107.9                 | 108.3 | 107.4 | 106.5 | 107.3 | 107.3 | 108.5 | 110.0 | 70- 80   | 158.2       | 1712         | 95.8,95.8  |
| 90       | 30.92                 | 31.95 | 33.62 | 31.75 | 32.88 | 31.80 | 34.11 | 32.79 | 80- 90   | 74.78       | 1787         | 100,100    |
| 100      |                       |       |       |       |       |       |       |       | 90-100   |             |              |            |
| 110      |                       |       |       |       |       |       |       |       | 100-110  |             |              |            |
| 120      |                       |       |       |       |       |       |       |       | 110-120  |             |              |            |
| 130      |                       |       |       |       |       |       |       |       | 120-130  |             |              |            |
| 140      |                       |       |       |       |       |       |       |       | 130-140  |             |              |            |
| 150      |                       |       |       |       |       |       |       |       | 140-150  |             |              |            |
| 160      |                       |       |       |       |       |       |       |       | 150-160  |             |              |            |
| 170      |                       |       |       |       |       |       |       |       | 160-170  |             |              |            |
| 180      |                       |       |       |       |       |       |       |       | 170-180  |             |              |            |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 881.69 lm

%lum = 49.3%

%lamp = 49.3%

Conical surface Flux(120deg): 1320.4 lm

%lum = 73.9%

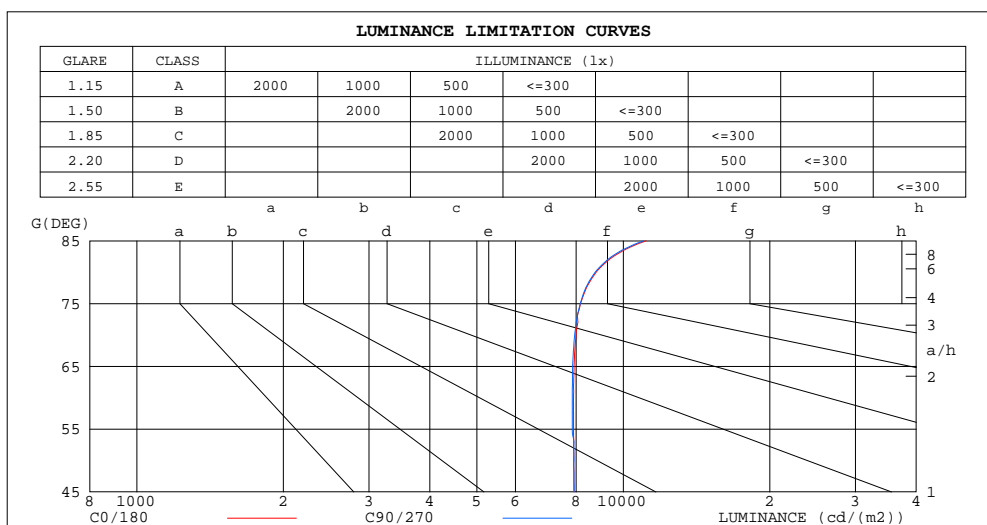
%lamp = 73.9%

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 11137  | 11001   |
| 80                | 8794   | 8750    |
| 75                | 8164   | 8157    |
| 70                | 7997   | 7941    |
| 65                | 7920   | 7868    |
| 60                | 7898   | 7852    |
| 55                | 7904   | 7855    |
| 50                | 7908   | 7917    |
| 45                | 7918   | 7920    |

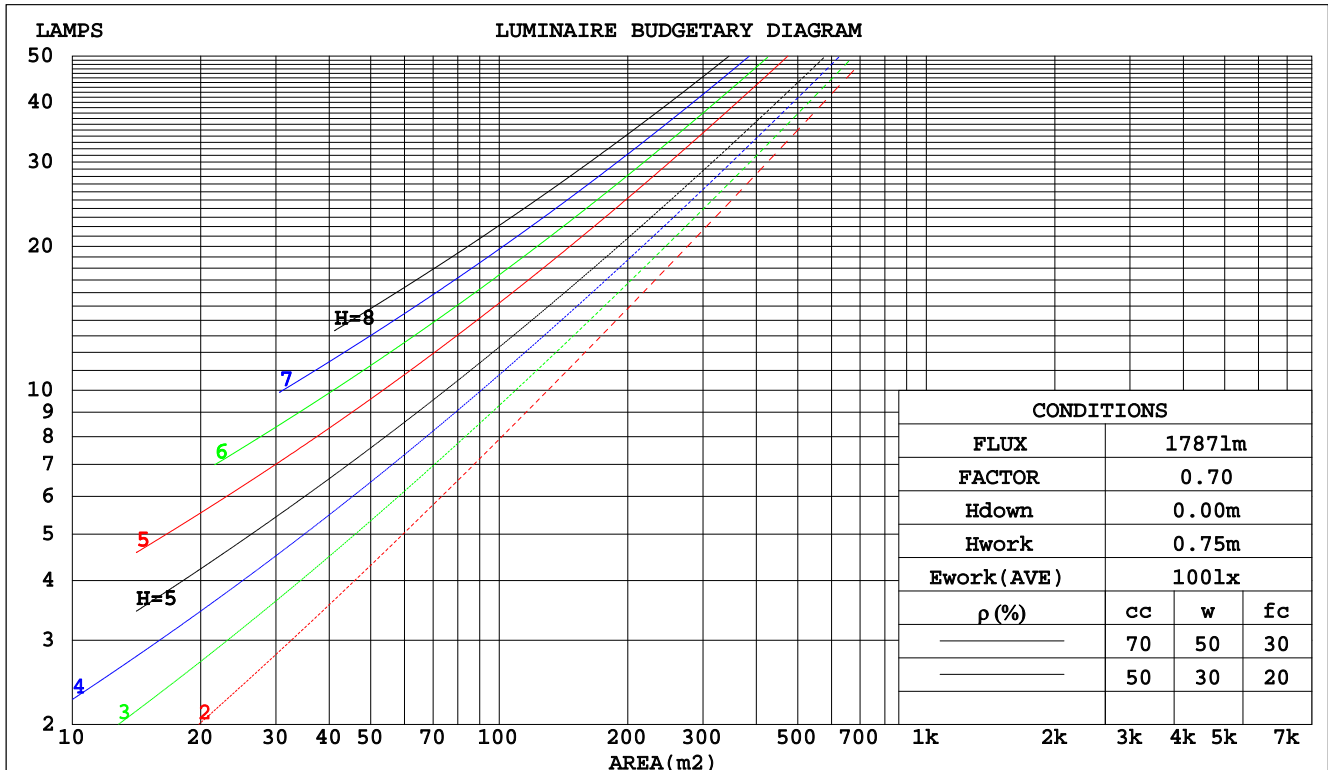
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

| pcc  | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| pw   | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pfc  | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16                            | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0  | 1.02                  | .97  | .93  | .90                             | .95  | .91  | .95  | .92  | .88  | .91  | .88  | .86  | .88  | .85  | .83  | .81 |
| 2.0  | .88                   | .81  | .74  | .86                             | .79  | .74  | .83  | .77  | .72  | .79  | .74  | .70  | .76  | .72  | .69  | .66 |
| 3.0  | .77                   | .68  | .61  | .75                             | .67  | .61  | .72  | .65  | .60  | .69  | .63  | .58  | .67  | .62  | .57  | .55 |
| 4.0  | .68                   | .59  | .51  | .66                             | .58  | .51  | .64  | .56  | .50  | .61  | .55  | .50  | .59  | .54  | .49  | .47 |
| 5.0  | .60                   | .51  | .44  | .59                             | .50  | .44  | .57  | .49  | .43  | .55  | .48  | .43  | .53  | .47  | .42  | .40 |
| 6.0  | .54                   | .45  | .38  | .53                             | .44  | .38  | .51  | .44  | .38  | .50  | .43  | .37  | .48  | .42  | .37  | .35 |
| 7.0  | .49                   | .40  | .34  | .48                             | .40  | .33  | .47  | .39  | .33  | .45  | .38  | .33  | .44  | .38  | .33  | .31 |
| 8.0  | .45                   | .36  | .30  | .44                             | .36  | .30  | .43  | .35  | .30  | .41  | .34  | .29  | .40  | .34  | .29  | .27 |
| 9.0  | .41                   | .33  | .27  | .40                             | .32  | .27  | .39  | .32  | .27  | .38  | .31  | .26  | .37  | .31  | .26  | .24 |
| 10.0 | .38                   | .30  | .24  | .37                             | .29  | .24  | .36  | .29  | .24  | .35  | .29  | .24  | .34  | .28  | .24  | .22 |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### WEC AND CCEC

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

| 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  | .346                  | .197 | .062 | .339 | .193 | .061 | .325                            | .187 | .060 | .313 | .180 | .058 | .301 | .175 | .056 |   |  |  |
| 2.0  | .314                  | .172 | .053 | .308 | .170 | .052 | .296                            | .165 | .051 | .285 | .160 | .050 | .275 | .156 | .049 |   |  |  |
| 3.0  | .286                  | .152 | .046 | .280 | .150 | .045 | .270                            | .146 | .044 | .260 | .143 | .044 | .251 | .139 | .043 |   |  |  |
| 4.0  | .261                  | .136 | .040 | .256 | .134 | .040 | .247                            | .131 | .039 | .238 | .128 | .039 | .230 | .125 | .038 |   |  |  |
| 5.0  | .240                  | .122 | .035 | .235 | .121 | .035 | .227                            | .118 | .035 | .219 | .116 | .034 | .212 | .113 | .034 |   |  |  |
| 6.0  | .221                  | .111 | .032 | .217 | .110 | .032 | .210                            | .107 | .031 | .203 | .105 | .031 | .196 | .103 | .031 |   |  |  |
| 7.0  | .205                  | .101 | .029 | .201 | .100 | .029 | .195                            | .098 | .028 | .188 | .097 | .028 | .183 | .095 | .028 |   |  |  |
| 8.0  | .191                  | .093 | .026 | .187 | .092 | .026 | .182                            | .091 | .026 | .176 | .089 | .026 | .171 | .088 | .026 |   |  |  |
| 9.0  | .178                  | .086 | .024 | .175 | .085 | .024 | .170                            | .084 | .024 | .165 | .083 | .024 | .160 | .081 | .024 |   |  |  |
| 10.0 | .167                  | .080 | .022 | .165 | .079 | .022 | .160                            | .078 | .022 | .155 | .077 | .022 | .151 | .076 | .022 |   |  |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .183                  | .156 | .132 | .156 | .134 | .113 | .107                                       | .092 | .078 | .062 | .053 | .046 | .020 | .017 | .015 |   |
| 2.0  | .175                  | .132 | .095 | .150 | .113 | .082 | .103                                       | .078 | .057 | .059 | .046 | .034 | .019 | .015 | .011 |   |
| 3.0  | .168                  | .114 | .072 | .144 | .099 | .062 | .099                                       | .069 | .044 | .057 | .040 | .026 | .018 | .013 | .008 |   |
| 4.0  | .160                  | .101 | .057 | .137 | .087 | .049 | .094                                       | .061 | .035 | .055 | .036 | .020 | .018 | .012 | .007 |   |
| 5.0  | .152                  | .091 | .046 | .131 | .079 | .040 | .090                                       | .055 | .028 | .052 | .032 | .017 | .017 | .011 | .006 |   |
| 6.0  | .145                  | .083 | .038 | .124 | .072 | .033 | .086                                       | .050 | .023 | .050 | .029 | .014 | .016 | .010 | .005 |   |
| 7.0  | .138                  | .076 | .032 | .118 | .066 | .028 | .082                                       | .046 | .020 | .048 | .027 | .012 | .015 | .009 | .004 |   |
| 8.0  | .131                  | .070 | .028 | .113 | .061 | .024 | .078                                       | .043 | .017 | .045 | .025 | .010 | .015 | .008 | .003 |   |
| 9.0  | .125                  | .065 | .025 | .107 | .056 | .022 | .074                                       | .040 | .015 | .043 | .023 | .009 | .014 | .008 | .003 |   |
| 10.0 | .119                  | .061 | .022 | .102 | .053 | .019 | .071                                       | .037 | .014 | .041 | .022 | .008 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jasoan  
 Test Date:2022-10-14

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:58%  
 Test Distance:8.967m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

|   |                  |      |      |      |                    |                |      |             |      |      |
|---|------------------|------|------|------|--------------------|----------------|------|-------------|------|------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                  |      |      |      |                    |                |      |             |      |      |
| NAME: MASM-18W-830-120°   |                  |      |      |      | TYPE:Ceiling Light |                |      | SERIAL No.: |      |      |
| SPEC.:3000K   |                  |      |      |      | DIM.: φ300mm*H40mm |                |      |             |      |      |
| MFR.: NEKO LIGHTING AG  |                  |      |      |      |                    |                |      |             |      |      |
| 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   | 18.0             | 19.6 | 18.3 | 19.8 | 20.0               | 18.0           | 19.6 | 18.3        | 19.8 | 20.0 |
| 3H  | 19.9             | 21.3 | 20.2 | 21.6 | 21.8               | 19.8           | 21.3 | 20.1        | 21.5 | 21.8 |
| 4H  | 20.7             | 22.1 | 21.0 | 22.3 | 22.6               | 20.7           | 22.1 | 21.0        | 22.3 | 22.6 |
| 6H  | 21.4             | 22.8 | 21.8 | 23.0 | 23.3               | 21.4           | 22.7 | 21.8        | 23.0 | 23.3 |
| 8H  | 21.8             | 23.1 | 22.1 | 23.4 | 23.7               | 21.8           | 23.0 | 22.1        | 23.3 | 23.6 |
| 12H   | 22.1             | 23.3 | 22.5 | 23.6 | 24.0               | 22.1           | 23.3 | 22.4        | 23.6 | 23.9 |
| 4H 2H   | 18.7             | 20.1 | 19.1 | 20.4 | 20.7               | 18.7           | 20.1 | 19.0        | 20.4 | 20.6 |
| 3H  | 20.8             | 22.0 | 21.1 | 22.3 | 22.6               | 20.7           | 22.0 | 21.1        | 22.3 | 22.6 |
| 4H  | 21.7             | 22.9 | 22.1 | 23.2 | 23.5               | 21.7           | 22.8 | 22.1        | 23.2 | 23.5 |
| 6H  | 22.7             | 23.7 | 23.1 | 24.0 | 24.4               | 22.6           | 23.6 | 23.0        | 24.0 | 24.4 |
| 8H  | 23.1             | 24.0 | 23.5 | 24.4 | 24.8               | 23.1           | 24.0 | 23.5        | 24.4 | 24.8 |
| 12H   | 23.5             | 24.4 | 23.9 | 24.8 | 25.2               | 23.5           | 24.3 | 23.9        | 24.7 | 25.1 |
| 8H 4H   | 22.1             | 23.1 | 22.5 | 23.4 | 23.8               | 22.1           | 23.1 | 22.5        | 23.4 | 23.8 |
| 6H  | 23.3             | 24.1 | 23.7 | 24.5 | 24.9               | 23.2           | 24.0 | 23.7        | 24.4 | 24.9 |
| 8H  | 23.8             | 24.6 | 24.3 | 25.0 | 25.4               | 23.8           | 24.5 | 24.3        | 24.9 | 25.4 |
| 12H   | 24.4             | 25.0 | 24.9 | 25.5 | 26.0               | 24.4           | 25.0 | 24.8        | 25.4 | 25.9 |
| 12H 4H  | 22.2             | 23.1 | 22.6 | 23.4 | 23.9               | 22.2           | 23.0 | 22.6        | 23.4 | 23.8 |
| 6H  | 23.4             | 24.1 | 23.9 | 24.5 | 25.0               | 23.4           | 24.1 | 23.8        | 24.5 | 25.0 |
| 8H  | 24.0             | 24.7 | 24.5 | 25.1 | 25.6               | 24.0           | 24.6 | 24.5        | 25.1 | 25.6 |
| Variations with the observer position at spacings:                          |                  |      |      |      |                    |                |      |             |      |      |
| S = 1.0H  | + 0.1 / - 0.2    |      |      |      |                    | + 0.1 / - 0.2  |      |             |      |      |
| 1.5H  | + 0.2 / - 0.3    |      |      |      |                    | + 0.2 / - 0.3  |      |             |      |      |
| 2.0H  | + 0.1 / - 0.3    |      |      |      |                    | + 0.1 / - 0.3  |      |             |      |      |

CIE Pub.117, 1787 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 2.0$ )

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

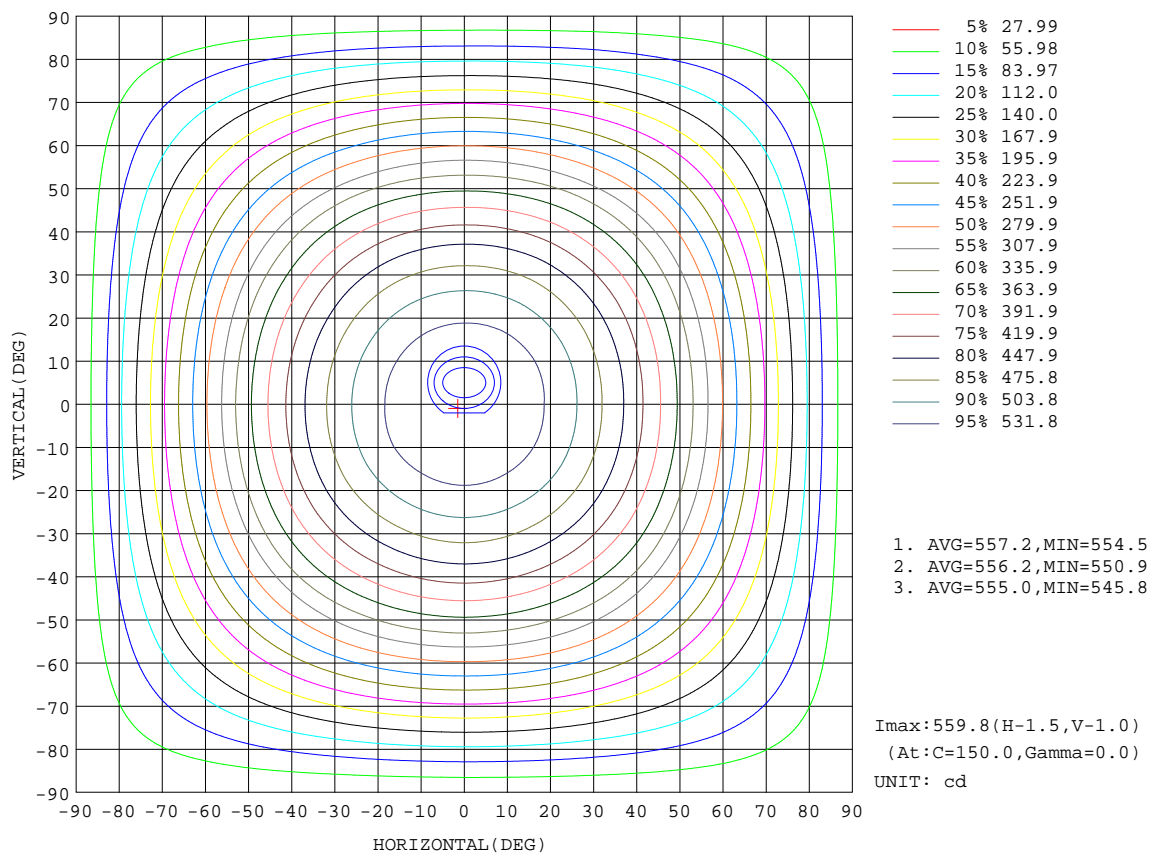
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 55  | 44  | 36        | 55  | 43  | 36  | 54  | 43            | 36  | 29     |
| 0.80                             | 65  | 53  | 46        | 64  | 53  | 45  | 62  | 52            | 45  | 38     |
| 1.00                             | 74  | 62  | 54        | 72  | 61  | 54  | 70  | 63            | 53  | 46     |
| 1.25                             | 81  | 70  | 62        | 79  | 69  | 62  | 76  | 67            | 61  | 53     |
| 1.50                             | 86  | 75  | 68        | 84  | 74  | 67  | 81  | 72            | 66  | 58     |
| 2.00                             | 93  | 84  | 77        | 91  | 82  | 76  | 87  | 80            | 74  | 66     |
| 2.50                             | 97  | 88  | 82        | 95  | 87  | 81  | 91  | 84            | 79  | 70     |
| 3.00                             | 100   | 93  | 87        | 98  | 91  | 86  | 94  | 88            | 84  | 75     |
| 4.00                             | 105   | 98  | 93        | 102 | 97  | 92  | 98  | 93            | 89  | 80     |
| 5.00                             | 107   | 102 | 97        | 105 | 100 | 96  | 100 | 96            | 93  | 83     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jasoan  
 Test Date:2022-10-14

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:58%  
 Test Distance:8.967m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

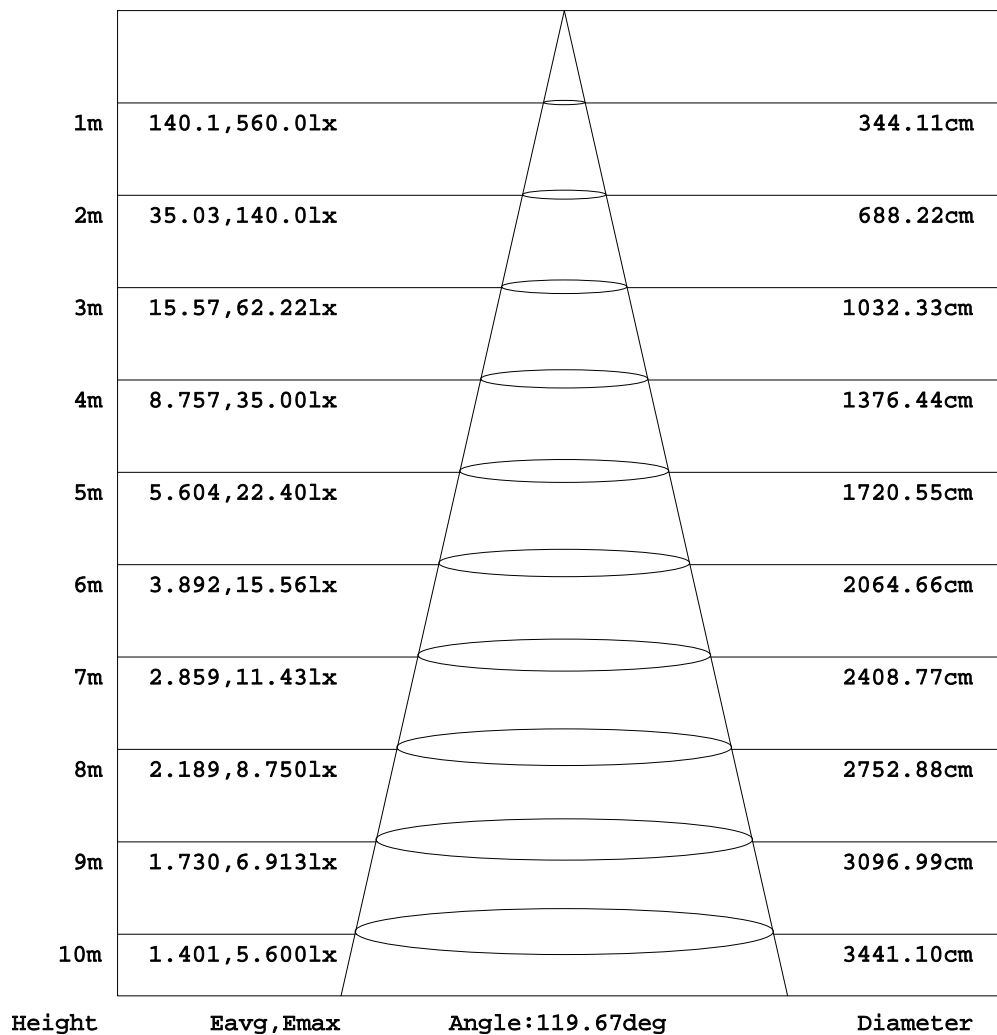
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:



**AAI Figure**

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

Flux out:1320 lm



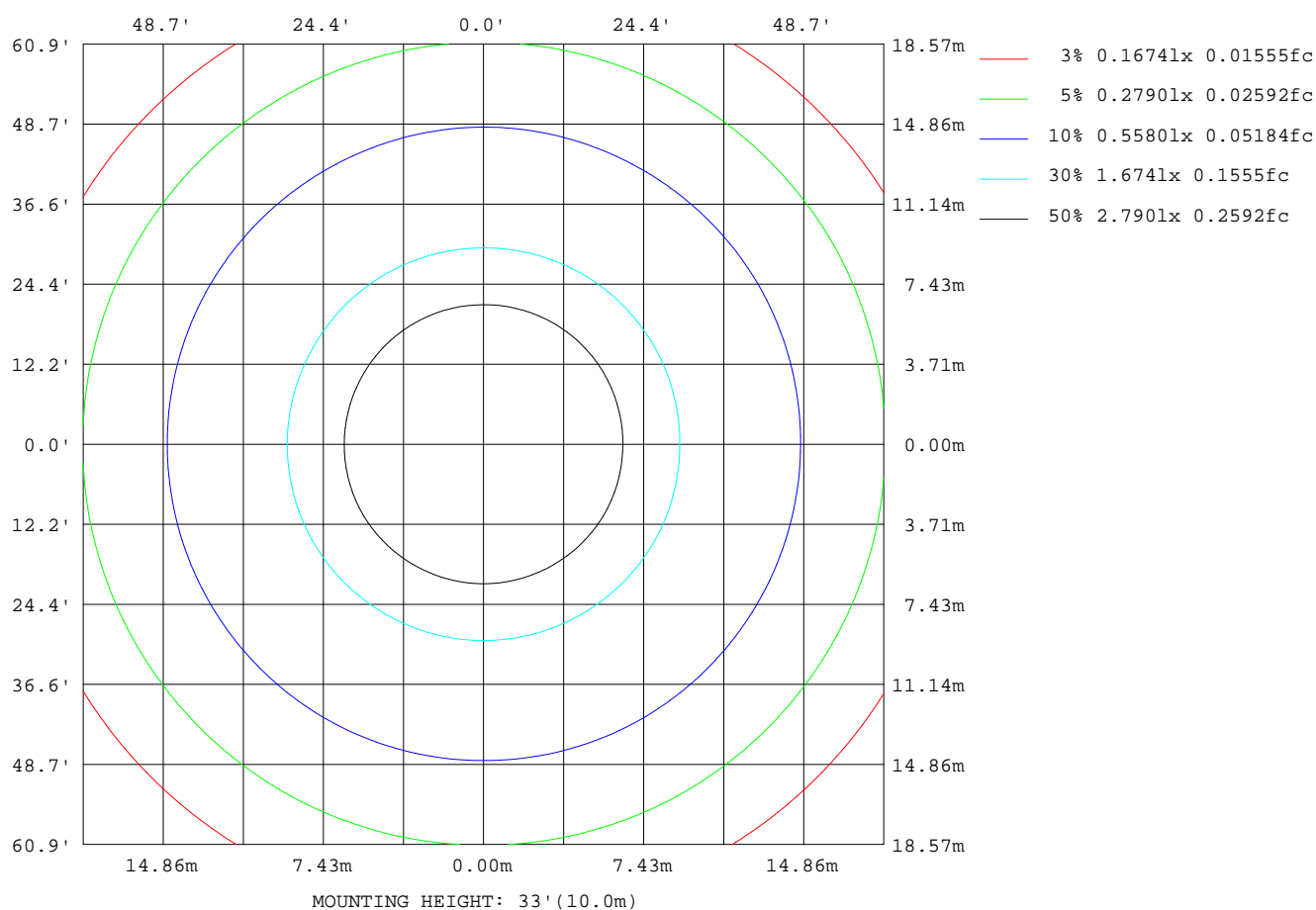
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jasoan  
Test Date: 2022-10-14

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

|   |                          |             |
|---|--------------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                          |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light       | SERIAL No.: |
| SPEC.:3000K   | DIM.: $\phi$ 300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                          |             |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### LED Avg.L Report

|   |                    |             |
|---|--------------------|-------------|
| Test:U:221.0V I:0.0882A P:18.53W PF:0.9505 Freq:49.99Hz Lamp Flux:1787x1 lm |                    |             |
| NAME: MASM-18W-830-120°   | TYPE:Ceiling Light | SERIAL No.: |
| SPEC.:3000K   | DIM.: φ300mm*H40mm |             |
| MFR.: NEKO LIGHTING AG  |                    |             |

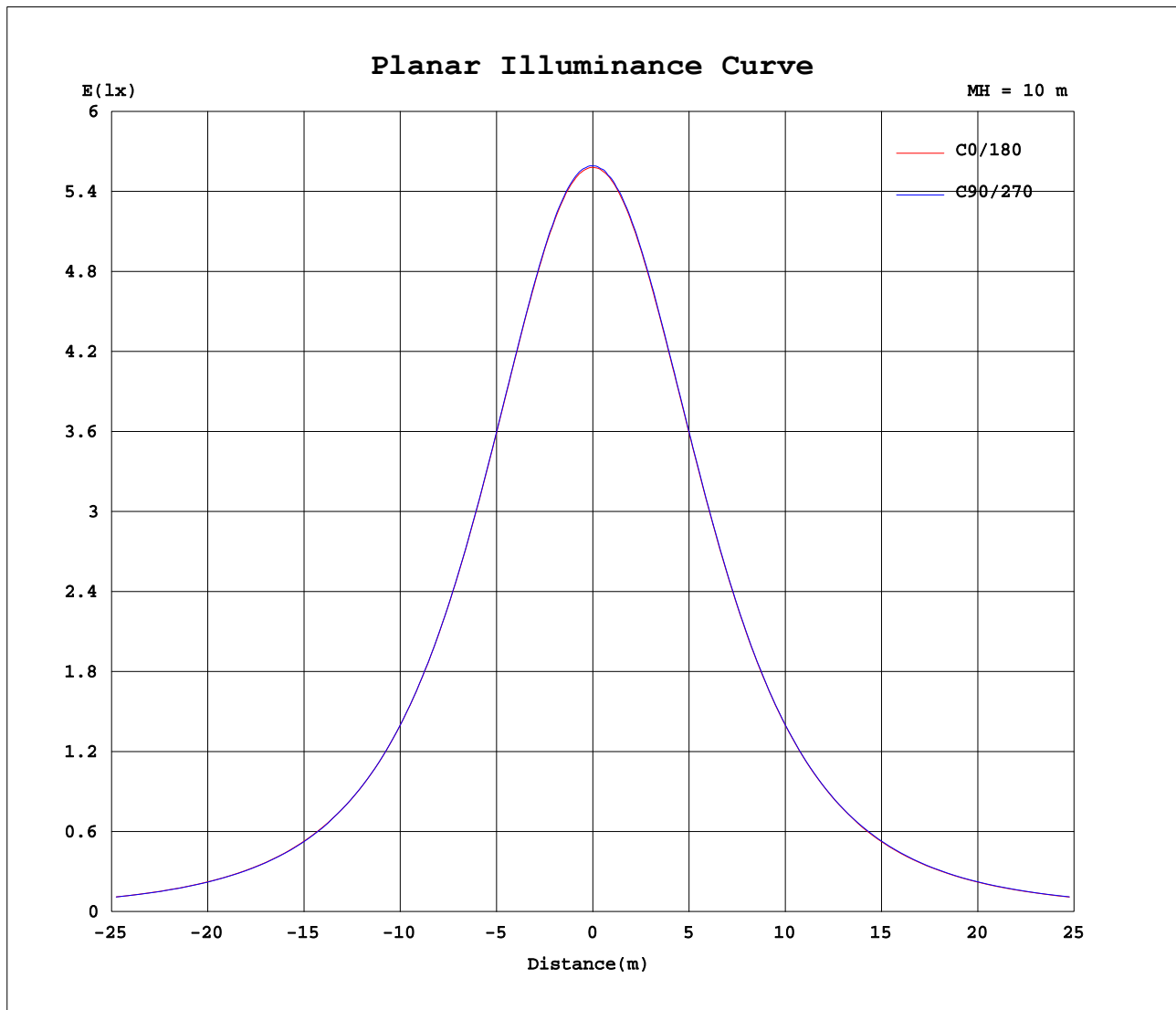
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 7888  |
| L_0~180 (75) av  | 8150  |
| L_0~180 (85) av  | 11064 |
| L_90~270 (65) av | 7902  |
| L_90~270 (75) av | 8175  |
| L_90~270 (85) av | 11094 |
| L_45 (65) av     | 7914  |
| L_45 (75) av     | 8184  |
| L_45 (85) av     | 11098 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jasoan  
Test Date:2022-10-14

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jasoan  
Test Date: 2022-10-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```