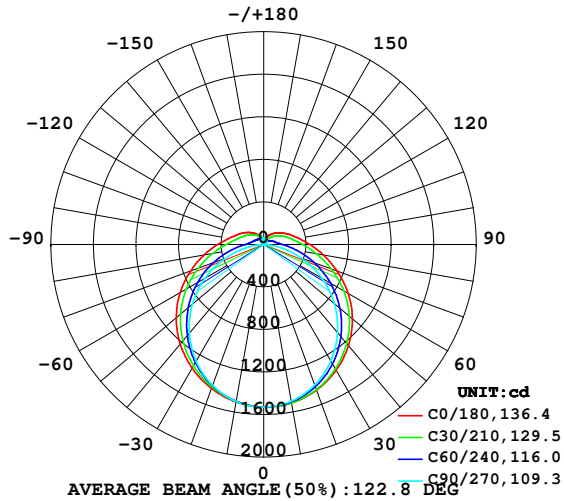


## LUMINAIRE PHOTOMETRIC TEST REPORT

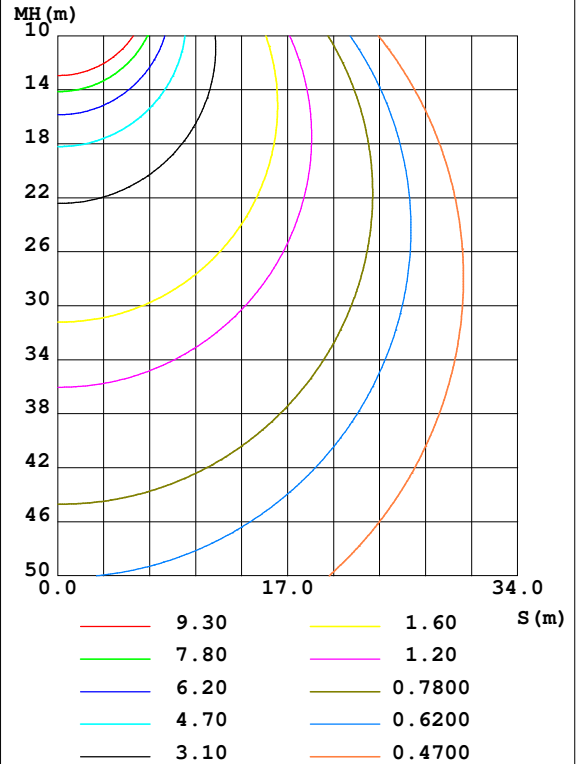
|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |

| DATA OF LAMP      |          | PHOTOMETRIC DATA Eff: 106.21 lm/W |         |                     |           |
|-------------------|----------|-----------------------------------|---------|---------------------|-----------|
| MODEL             | ELP/M120 | I <sub>max</sub> (cd)             | 1530    | S/MH (C0/180)       | 1.31      |
| NOMINAL POWER (W) | 58       | LOR (%)                           | 100.0   | S/MH (C90/270)      | 1.24      |
| RATED VOLTAGE (V) | 220.0    | TOTAL FLUX (lm)                   | 5925.5  | η UP, DN (C0-180)   | 6.9, 42.9 |
| NOMINAL FLUX (lm) | 5925.46  | CIE CLASS                         | SEMI-D. | η UP, DN (C180-360) | 6.8, 43.3 |
| LAMPS INSIDE      | 1        | η up (%)                          | 13.7    | CIBSE SHR NOM       | 1.50      |
| TEST VOLTAGE (V)  | 220      | η down (%)                        | 86.3    | CIBSE SHR MAX       | 1.50      |

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



## C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 20DEG  
 Operators: LITPA  
 Test Date: 13/05/2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.0000]  
 Remarks: ELP/M120-58W

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 1514                  | 1509  | 1497  | 1496  | 1504  | 1499  | 1499  | 1511  | 0- 10    | 144.7       | 144.7        | 2.44,2.44  |
| 20       | 1457                  | 1438  | 1405  | 1415  | 1440  | 1420  | 1410  | 1443  | 10- 20   | 415.5       | 560.3        | 9.45,9.45  |
| 30       | 1365                  | 1324  | 1264  | 1294  | 1345  | 1301  | 1270  | 1330  | 20- 30   | 634.0       | 1194         | 20.2,20.2  |
| 40       | 1241                  | 1174  | 1081  | 1141  | 1221  | 1150  | 1089  | 1181  | 30- 40   | 776.0       | 1970         | 33.3,33.3  |
| 50       | 1090                  | 997.3 | 868.1 | 964.5 | 1074  | 974.7 | 876.1 | 1005  | 40- 50   | 828.8       | 2799         | 47.2,47.2  |
| 60       | 915.9                 | 801.8 | 630.2 | 770.9 | 907.6 | 782.7 | 639.3 | 810.1 | 50- 60   | 791.1       | 3590         | 60.6,60.6  |
| 70       | 733.5                 | 598.7 | 378.6 | 572.6 | 732.3 | 585.4 | 387.8 | 606.5 | 60- 70   | 673.7       | 4264         | 72,72      |
| 80       | 567.7                 | 414.9 | 138.0 | 393.2 | 568.6 | 404.9 | 144.5 | 419.7 | 70- 80   | 505.7       | 4770         | 80.5,80.5  |
| 90       | 434.3                 | 283.3 | 1.557 | 264.8 | 433.9 | 274.1 | 1.653 | 281.1 | 80- 90   | 341.2       | 5111         | 86.3,86.3  |
| 100      | 336.0                 | 204.8 | 5.640 | 194.9 | 334.3 | 200.6 | 5.481 | 193.0 | 90-100   | 229.8       | 5341         | 90.1,90.1  |
| 110      | 268.5                 | 155.3 | 12.23 | 159.0 | 269.2 | 163.1 | 12.14 | 156.2 | 100-110  | 176.6       | 5517         | 93.1,93.1  |
| 120      | 216.0                 | 114.4 | 19.07 | 132.0 | 220.5 | 135.2 | 19.08 | 116.4 | 110-120  | 136.1       | 5653         | 95.4,95.4  |
| 130      | 172.0                 | 85.37 | 25.28 | 110.3 | 177.6 | 112.9 | 25.35 | 85.78 | 120-130  | 100.4       | 5754         | 97.1,97.1  |
| 140      | 133.9                 | 64.85 | 31.49 | 92.58 | 139.7 | 94.14 | 31.48 | 65.88 | 130-140  | 70.97       | 5825         | 98.3,98.3  |
| 150      | 101.9                 | 50.76 | 41.51 | 81.66 | 107.3 | 81.84 | 41.67 | 51.94 | 140-150  | 47.58       | 5872         | 99.1,99.1  |
| 160      | 78.52                 | 50.97 | 50.81 | 74.21 | 80.73 | 74.57 | 50.93 | 51.89 | 150-160  | 30.44       | 5903         | 99.6,99.6  |
| 170      | 61.47                 | 55.00 | 58.26 | 66.33 | 63.99 | 66.57 | 58.34 | 55.56 | 160-170  | 17.22       | 5920         | 99.9,99.9  |
| 180      | 33.79                 | 61.02 | 62.92 | 61.40 | 33.92 | 61.06 | 62.87 | 61.37 | 170-180  | 5.516       | 5925         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 2383.8 lm

%lum = 40.2%

%lamp = 40.2%

Conical surface Flux(120deg): 3590.2 lm

%lum = 60.6%

%lamp = 60.6%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:LITPA  
 Test Date:13/05/2020

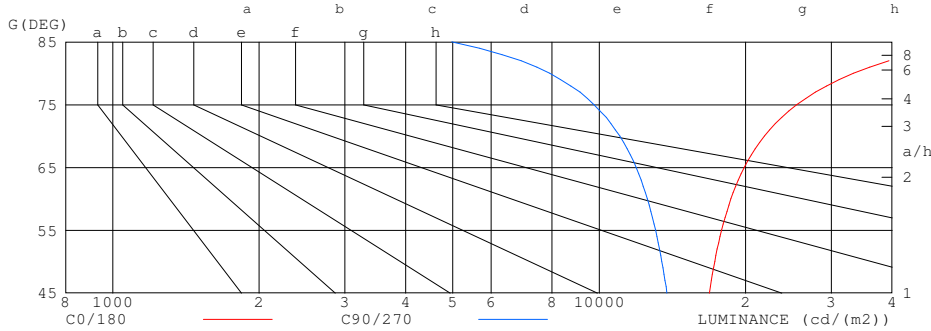
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks: ELP/M120-58W

## LUMINANCE LIMITATION CURVES

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |

LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) |      |      |       |       |       |       |       |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A     | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50  | B     |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85  | C     |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20  | D     |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55  | E     |                  |      |      |       | 2000  | 1000  | 500   | <=300 |



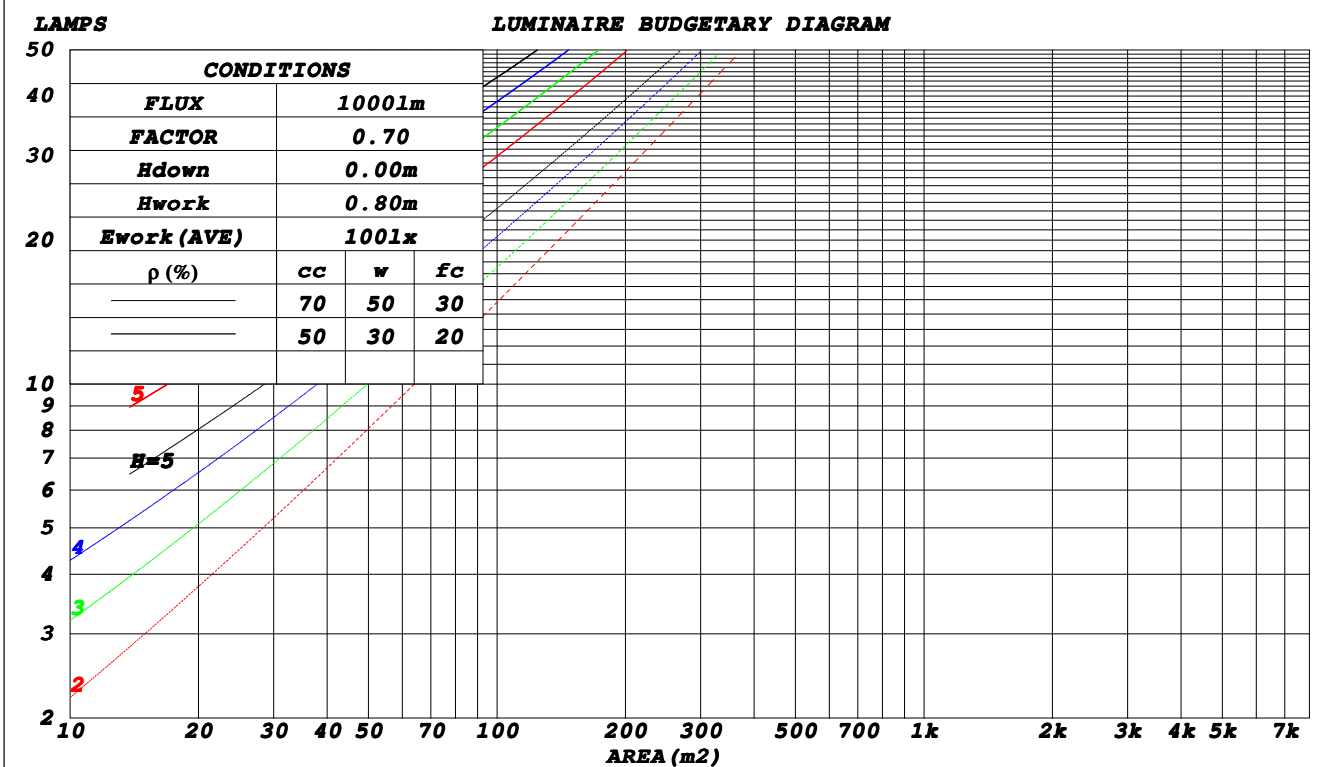
**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 13/05/2020**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 7.200m [K=1.0000]**  
**Remarks: ELP/M120-58W**

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding 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         | 1.16                  | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.03                            | 1.03 | 1.03 | .96 | .96 | .96 | .89 | .89 | .89 | .86 |
| 1.0         | .98                   | .93  | .88  | .94  | .90  | .86  | .87                             | .84  | .80  | .81 | .78 | .75 | .75 | .73 | .71 | .68 |
| 2.0         | .84                   | .77  | .70  | .81  | .74  | .69  | .75                             | .70  | .65  | .70 | .65 | .61 | .65 | .61 | .58 | .55 |
| 3.0         | .73                   | .65  | .58  | .71  | .63  | .56  | .66                             | .59  | .54  | .61 | .56 | .51 | .57 | .52 | .48 | .45 |
| 4.0         | .65                   | .55  | .48  | .62  | .54  | .47  | .58                             | .51  | .45  | .54 | .48 | .43 | .50 | .45 | .41 | .38 |
| 5.0         | .57                   | .48  | .41  | .56  | .47  | .40  | .52                             | .44  | .39  | .48 | .42 | .37 | .45 | .40 | .35 | .33 |
| 6.0         | .52                   | .42  | .36  | .50  | .41  | .35  | .47                             | .39  | .34  | .44 | .37 | .32 | .41 | .35 | .31 | .29 |
| 7.0         | .47                   | .38  | .31  | .45  | .37  | .31  | .42                             | .35  | .30  | .40 | .33 | .28 | .37 | .32 | .27 | .25 |
| 8.0         | .42                   | .34  | .28  | .41  | .33  | .27  | .39                             | .31  | .26  | .36 | .30 | .25 | .34 | .29 | .24 | .22 |
| 9.0         | .39                   | .30  | .25  | .38  | .30  | .24  | .35                             | .28  | .24  | .33 | .27 | .23 | .32 | .26 | .22 | .20 |
| 10.0        | .36                   | .28  | .22  | .35  | .27  | .22  | .33                             | .26  | .21  | .31 | .25 | .21 | .29 | .24 | .20 | .18 |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: LITPA  
Test Date: 13/05/2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity: 65.0%  
Test Distance: 7.200m [K=1.0000]  
Remarks: ELP/M120-58W

## WEC AND CCEC

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding 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 |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .361                  | .205 | .065 | .349 | .199 | .063 | .328                            | .188 | .060 | .308 | .178 | .057 | .290 | .168 | .054 |   |  |
| 2.0         | .319                  | .175 | .054 | .309 | .170 | .052 | .290                            | .161 | .050 | .272 | .153 | .048 | .256 | .145 | .046 |   |  |
| 3.0         | .287                  | .153 | .046 | .278 | .149 | .045 | .260                            | .141 | .043 | .244 | .134 | .041 | .229 | .127 | .039 |   |  |
| 4.0         | .260                  | .135 | .040 | .252 | .132 | .039 | .236                            | .125 | .037 | .222 | .119 | .036 | .208 | .113 | .034 |   |  |
| 5.0         | .238                  | .121 | .035 | .230 | .118 | .034 | .216                            | .112 | .033 | .203 | .107 | .032 | .191 | .102 | .031 |   |  |
| 6.0         | .219                  | .110 | .031 | .212 | .107 | .031 | .199                            | .102 | .030 | .187 | .097 | .029 | .176 | .092 | .027 |   |  |
| 7.0         | .202                  | .100 | .028 | .196 | .098 | .028 | .184                            | .093 | .027 | .173 | .089 | .026 | .163 | .085 | .025 |   |  |
| 8.0         | .188                  | .092 | .026 | .182 | .090 | .025 | .172                            | .086 | .024 | .161 | .082 | .024 | .152 | .078 | .023 |   |  |
| 9.0         | .175                  | .085 | .024 | .170 | .083 | .023 | .160                            | .079 | .022 | .151 | .076 | .022 | .142 | .072 | .021 |   |  |
| 10.0        | .164                  | .079 | .022 | .160 | .077 | .022 | .151                            | .074 | .021 | .142 | .071 | .020 | .134 | .067 | .019 |   |  |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%   |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%   |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .295                  | .295 | .295 | .252 | .252 | .252 | .172  | .172 | .172 | .099 | .099 | .099 | .032 | .032 | .032 |   |
| 1.0         | .289                  | .261 | .236 | .248 | .224 | .203 | .169  | .154 | .140 | .098 | .089 | .082 | .031 | .029 | .026 |   |
| 2.0         | .282                  | .238 | .201 | .242 | .205 | .174 | .166  | .142 | .121 | .096 | .082 | .071 | .031 | .027 | .023 |   |
| 3.0         | .275                  | .221 | .179 | .235 | .191 | .155 | .162  | .133 | .109 | .093 | .077 | .064 | .030 | .025 | .021 |   |
| 4.0         | .267                  | .209 | .164 | .229 | .180 | .143 | .157  | .126 | .100 | .091 | .074 | .059 | .029 | .024 | .020 |   |
| 5.0         | .259                  | .199 | .154 | .223 | .172 | .134 | .153  | .120 | .095 | .089 | .070 | .056 | .029 | .023 | .018 |   |
| 6.0         | .252                  | .191 | .147 | .217 | .165 | .128 | .149  | .116 | .090 | .087 | .068 | .054 | .028 | .022 | .018 |   |
| 7.0         | .245                  | .184 | .141 | .211 | .159 | .123 | .146  | .112 | .087 | .085 | .066 | .052 | .027 | .022 | .017 |   |
| 8.0         | .238                  | .178 | .137 | .205 | .155 | .119 | .142  | .109 | .085 | .083 | .064 | .050 | .027 | .021 | .017 |   |
| 9.0         | .232                  | .173 | .134 | .200 | .151 | .117 | .139  | .106 | .083 | .081 | .062 | .049 | .026 | .021 | .016 |   |
| 10.0        | .226                  | .169 | .131 | .195 | .147 | .115 | .135  | .103 | .081 | .079 | .061 | .049 | .026 | .020 | .016 |   |

**C Range:** 0 - 360DEG  
**C Interval:** 10.0DEG  
**Test Speed:** HIGH  
**Temperature:** 20DEG  
**Operators:** LITPA  
**Test Date:** 13/05/2020

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
**Humidity:** 65.0%  
**Test Distance:** 7.200m [K=1.0000]  
**Remarks:** ELP/M120-58W

UGR(Unified Glare Rating) Table

|  |                  |      |      |      |                    |                |      |                  |      |      |
|--|------------------|------|------|------|--------------------|----------------|------|------------------|------|------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                  |      |      |      |                    |                |      |                  |      |      |
| NAME: ELP/M120   |                  |      |      |      | TYPE:LED           |                |      | WEIGHT:1.160kg   |      |      |
| SPEC.:58W  |                  |      |      |      | DIM.: 1230X80X70mm |                |      | SERIAL No.:      |      |      |
| MFR.: LITPA AYDINLATMA   |                  |      |      |      | SUR.:              |                |      | 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  | 22.4             | 23.8 | 22.9 | 24.2 | 24.7               | 20.7           | 22.1 | 21.2             | 22.6 | 23.0 |
| 3H   | 24.7             | 26.0 | 25.2 | 26.5 | 27.0               | 22.1           | 23.4 | 22.6             | 23.9 | 24.4 |
| 4H   | 26.0             | 27.2 | 26.5 | 27.7 | 28.2               | 22.6           | 23.9 | 23.1             | 24.4 | 24.9 |
| 6H   | 27.3             | 28.5 | 27.8 | 29.0 | 29.5               | 23.0           | 24.1 | 23.5             | 24.6 | 25.2 |
| 8H   | 28.1             | 29.2 | 28.6 | 29.7 | 30.3               | 23.0           | 24.1 | 23.6             | 24.7 | 25.2 |
| 12H  | 28.9             | 30.0 | 29.5 | 30.5 | 31.1               | 23.0           | 24.1 | 23.6             | 24.6 | 25.2 |
| 4H 2H  | 22.9             | 24.2 | 23.4 | 24.7 | 25.2               | 21.7           | 22.9 | 22.2             | 23.4 | 23.9 |
| 3H   | 25.5             | 26.6 | 26.0 | 27.1 | 27.7               | 23.3           | 24.4 | 23.9             | 24.9 | 25.5 |
| 4H   | 26.9             | 27.9 | 27.5 | 28.5 | 29.1               | 24.0           | 25.0 | 24.6             | 25.6 | 26.2 |
| 6H   | 28.5             | 29.4 | 29.1 | 30.0 | 30.6               | 24.5           | 25.4 | 25.1             | 26.0 | 26.6 |
| 8H   | 29.4             | 30.2 | 30.0 | 30.8 | 31.5               | 24.6           | 25.5 | 25.2             | 26.1 | 26.7 |
| 12H  | 30.4             | 31.1 | 31.0 | 31.8 | 32.5               | 24.7           | 25.4 | 25.3             | 26.1 | 26.8 |
| 8H 4H  | 27.2             | 28.0 | 27.8 | 28.6 | 29.3               | 24.8           | 25.7 | 25.4             | 26.3 | 26.9 |
| 6H   | 29.1             | 29.8 | 29.7 | 30.4 | 31.1               | 25.6           | 26.3 | 26.3             | 27.0 | 27.7 |
| 8H   | 30.2             | 30.8 | 30.8 | 31.4 | 32.2               | 26.0           | 26.6 | 26.6             | 27.2 | 28.0 |
| 12H  | 31.4             | 32.0 | 32.1 | 32.7 | 33.4               | 26.2           | 26.7 | 26.8             | 27.4 | 28.1 |
| 12H 4H   | 27.2             | 28.0 | 27.9 | 28.6 | 29.3               | 25.1           | 25.8 | 25.7             | 26.5 | 27.1 |
| 6H   | 29.2             | 29.8 | 29.8 | 30.4 | 31.2               | 26.1           | 26.7 | 26.7             | 27.4 | 28.1 |
| 8H   | 30.4             | 30.9 | 31.0 | 31.6 | 32.3               | 26.6           | 27.1 | 27.2             | 27.8 | 28.5 |
| Variations with the observer position at spacings:                               |                  |      |      |      |                    |                |      |                  |      |      |
| S = 1.0H   | + 0.1 / - 0.1    |      |      |      |                    | + 0.1 / - 0.1  |      |                  |      |      |
| 1.5H   | + 0.2 / - 0.3    |      |      |      |                    | + 0.2 / - 0.3  |      |                  |      |      |
| 2.0H   | + 0.2 / - 0.4    |      |      |      |                    | + 0.2 / - 0.4  |      |                  |      |      |

CIE Pub.117, 5925 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 6.2$ )

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:LITPA  
 Test Date:13/05/2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity:65.0%  
 Test Distance:7.200m [K=1.0000]  
 Remarks: ELP/M120-58W

## UTILIZATION FACTORS TABLE

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |

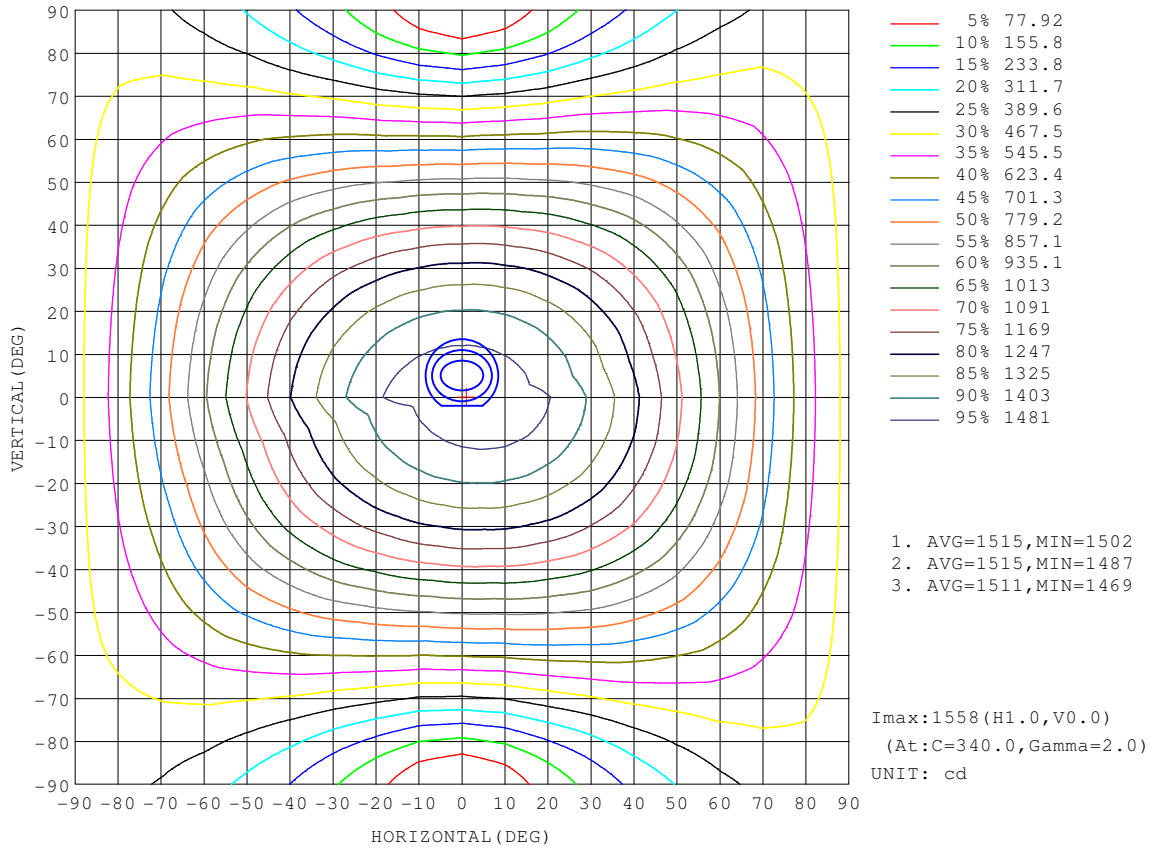
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 51   | 38  | 31        | 49  | 38  | 31  | 48  | 37            | 31  | 24     |
| 0.80                             | 60   | 47  | 40        | 58  | 47  | 39  | 56  | 45            | 38  | 31     |
| 1.00                             | 68   | 56  | 47        | 66  | 55  | 47  | 63  | 55            | 46  | 38     |
| 1.25                             | 75   | 63  | 55        | 73  | 62  | 54  | 69  | 59            | 53  | 43     |
| 1.50                             | 80   | 68  | 60        | 77  | 67  | 59  | 73  | 64            | 58  | 48     |
| 2.00                             | 87   | 77  | 69        | 84  | 75  | 68  | 79  | 71            | 65  | 54     |
| 2.50                             | 91   | 82  | 75        | 88  | 80  | 73  | 83  | 76            | 70  | 58     |
| 3.00                             | 95   | 86  | 80        | 92  | 84  | 78  | 86  | 79            | 74  | 62     |
| 4.00                             | 99   | 92  | 86        | 96  | 89  | 84  | 89  | 84            | 80  | 67     |
| 5.00                             | 102  | 96  | 91        | 99  | 93  | 88  | 92  | 87            | 83  | 70     |
| 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: 20DEG  
 Operators: LITPA  
 Test Date: 13/05/2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 65.0%  
 Test Distance: 7.200m [K=1.0000]  
 Remarks: ELP/M120-58W

## ISOCANDELA DIAGRAM

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |



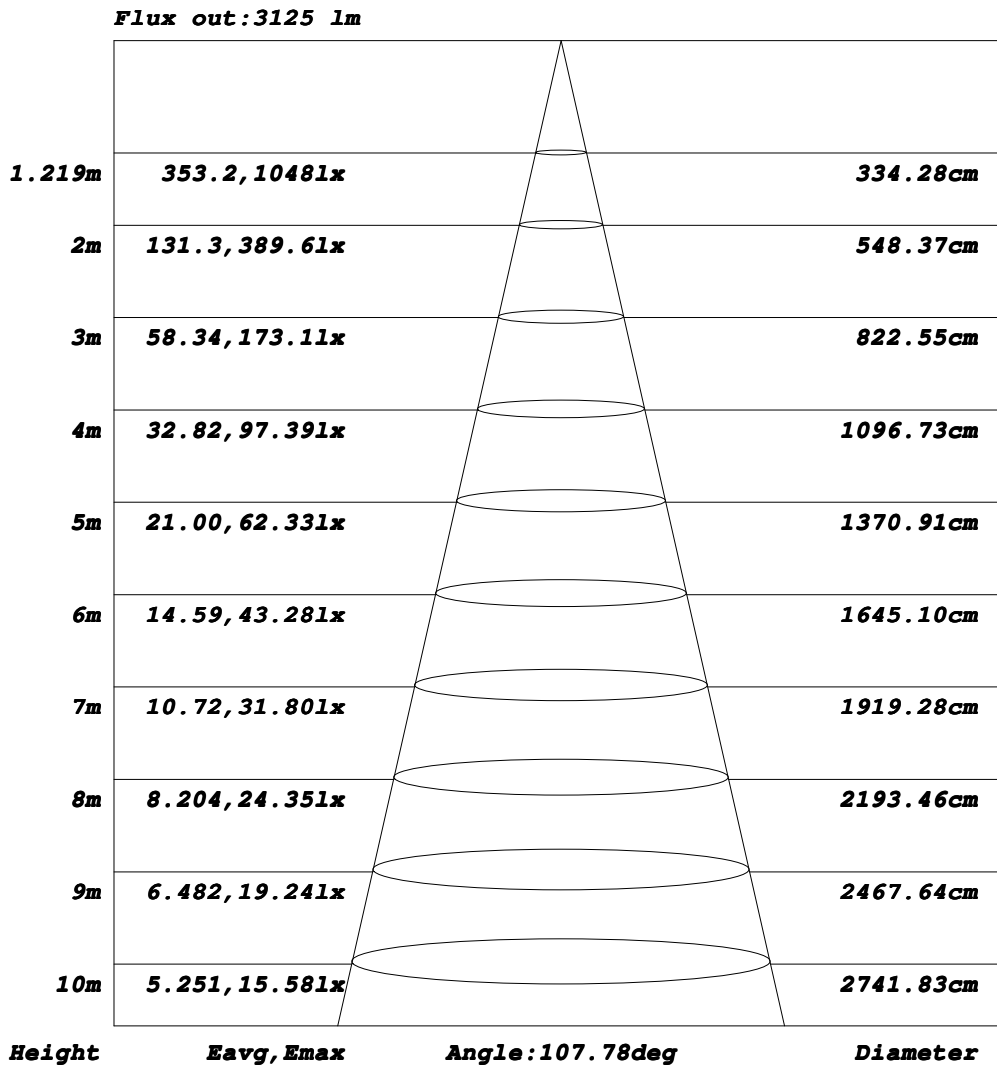
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: LITPA  
Test Date: 13/05/2020

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity: 65.0%  
Test Distance: 7.200m [K=1.0000]  
Remarks: ELP/M120-58W



## AAI Figure

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |



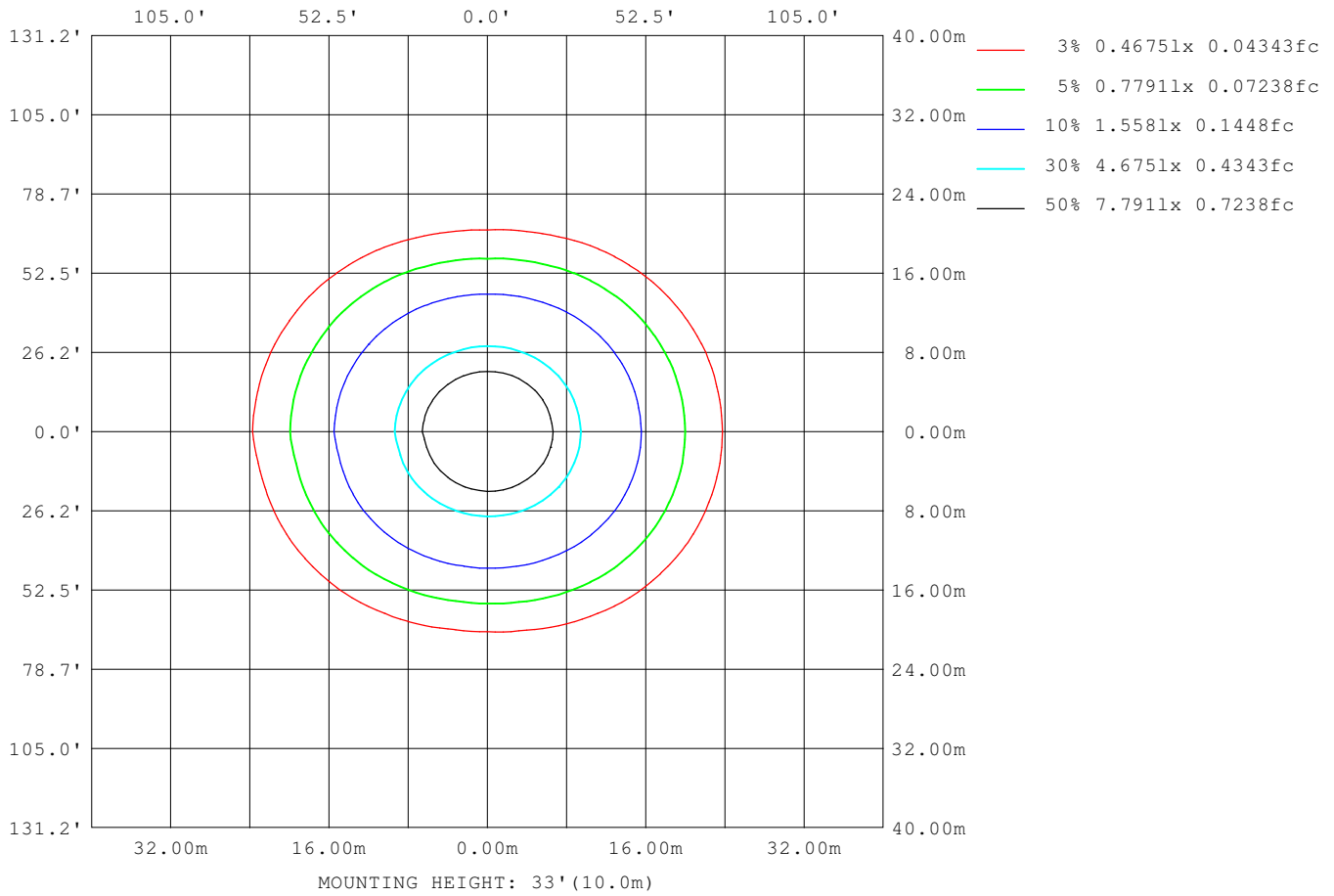
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:LITPA  
Test Date:13/05/2020

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.200m [K=1.0000]  
Remarks: ELP/M120-58W

## ISOLUX DIAGRAM

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |



**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 20DEG**  
**Operators: LITPA**  
**Test Date: 13/05/2020**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 7.200m [K=1.0000]**  
**Remarks: ELP/M120-58W**

## LED Avg.L Report

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding Angle: |

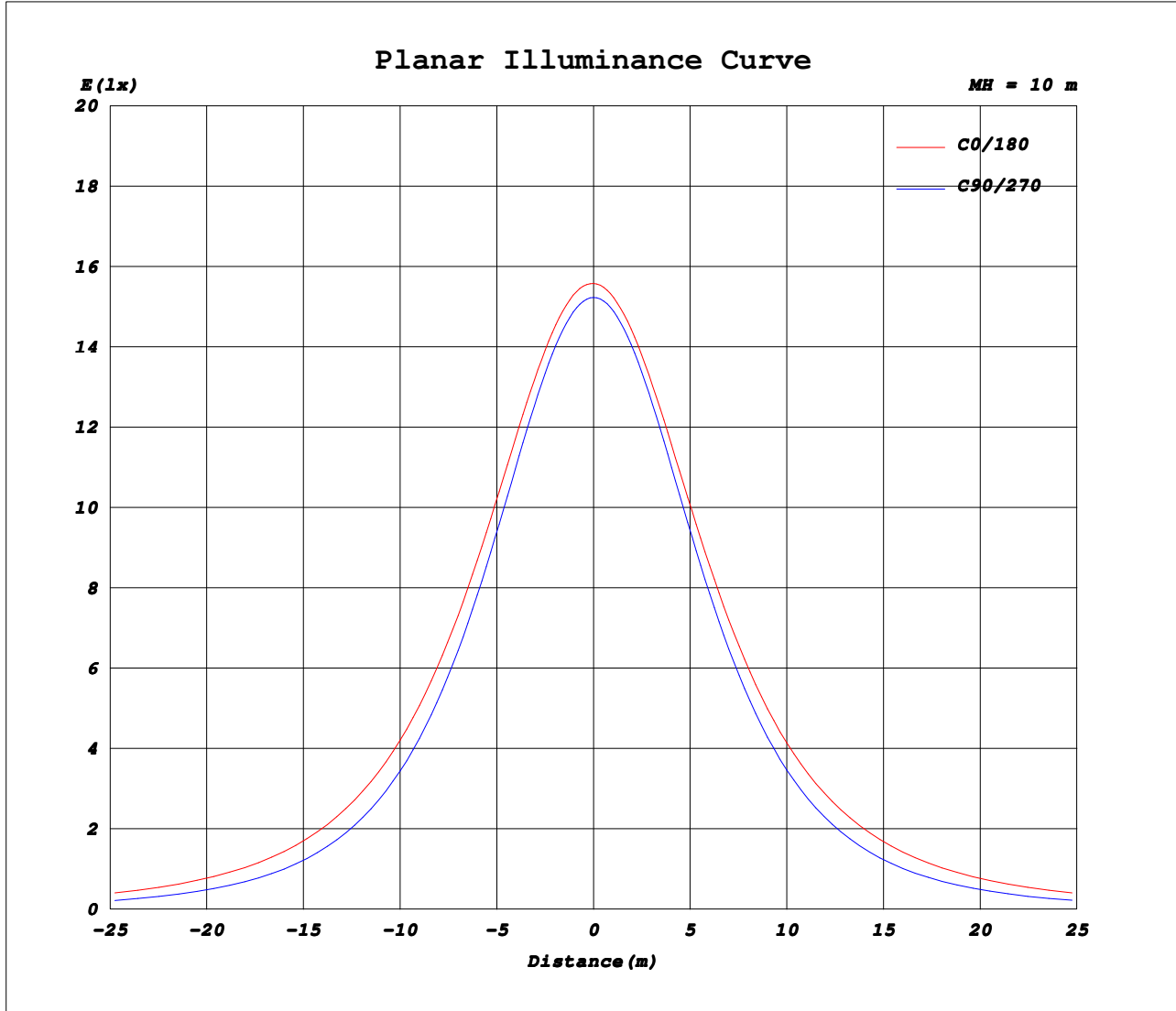
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 19453 |
| L_0~180 (75) av  | 25015 |
| L_0~180 (85) av  | 57014 |
| L_90~270 (65) av | 12065 |
| L_90~270 (75) av | 9962  |
| L_90~270 (85) av | 5301  |
| L_45 (65) av     | 16360 |
| L_45 (75) av     | 19150 |
| L_45 (85) av     | 38564 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:LITPA  
Test Date:13/05/2020

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.200m [K=1.0000]  
Remarks: ELP/M120-58W

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: LITPA  
Test Date: 13/05/2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity: 65.0%  
Test Distance: 7.200m [K=1.0000]  
Remarks: ELP/M120-58W

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                    |                  |
|--|--------------------|------------------|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |                    |                  |
| NAME: ELP/M120   | TYPE:LED           | WEIGHT:1.160kg   |
| SPEC.:58W  | DIM.: 1230X80X70mm | SERIAL No.:      |
| MFR.: LITPA AYDINLATMA   | SUR.:              | Shielding 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                  | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 |
| 5                  | 1527 | 1527 | 1527 | 1527 | 1526 | 1525 | 1523 | 1523 | 1521 | 1521 | 1520 | 1519 | 1519 | 1519 | 1519 | 1519 | 1519 | 1519 | 1522 |
| 10                 | 1514 | 1514 | 1514 | 1513 | 1510 | 1508 | 1503 | 1501 | 1498 | 1497 | 1495 | 1495 | 1494 | 1496 | 1496 | 1498 | 1498 | 1499 | 1504 |
| 15                 | 1490 | 1491 | 1490 | 1488 | 1482 | 1477 | 1470 | 1466 | 1460 | 1458 | 1455 | 1456 | 1457 | 1460 | 1462 | 1466 | 1467 | 1469 | 1477 |
| 20                 | 1457 | 1458 | 1456 | 1452 | 1442 | 1434 | 1424 | 1417 | 1408 | 1405 | 1402 | 1405 | 1407 | 1413 | 1417 | 1424 | 1427 | 1431 | 1440 |
| 25                 | 1415 | 1416 | 1412 | 1405 | 1392 | 1380 | 1365 | 1355 | 1344 | 1340 | 1337 | 1341 | 1345 | 1355 | 1362 | 1373 | 1379 | 1385 | 1396 |
| 30                 | 1365 | 1365 | 1359 | 1350 | 1332 | 1316 | 1296 | 1283 | 1268 | 1264 | 1260 | 1267 | 1273 | 1288 | 1299 | 1314 | 1323 | 1332 | 1345 |
| 35                 | 1306 | 1307 | 1298 | 1286 | 1263 | 1242 | 1217 | 1200 | 1183 | 1177 | 1174 | 1183 | 1193 | 1212 | 1229 | 1248 | 1260 | 1272 | 1286 |
| 40                 | 1241 | 1240 | 1230 | 1214 | 1187 | 1161 | 1131 | 1109 | 1088 | 1081 | 1079 | 1091 | 1106 | 1130 | 1151 | 1176 | 1191 | 1205 | 1221 |
| 45                 | 1169 | 1168 | 1155 | 1136 | 1104 | 1073 | 1037 | 1011 | 986  | 978  | 976  | 992  | 1012 | 1042 | 1068 | 1097 | 1116 | 1133 | 1150 |
| 50                 | 1090 | 1089 | 1074 | 1052 | 1015 | 979  | 938  | 906  | 878  | 868  | 868  | 888  | 913  | 949  | 980  | 1013 | 1035 | 1054 | 1074 |
| 55                 | 1005 | 1004 | 987  | 963  | 922  | 882  | 834  | 797  | 763  | 752  | 753  | 779  | 809  | 851  | 888  | 925  | 950  | 972  | 992  |
| 60                 | 916  | 914  | 896  | 868  | 824  | 779  | 726  | 682  | 644  | 630  | 634  | 665  | 702  | 750  | 792  | 833  | 862  | 885  | 908  |
| 65                 | 824  | 821  | 802  | 772  | 725  | 675  | 617  | 567  | 522  | 505  | 512  | 549  | 594  | 648  | 694  | 740  | 771  | 796  | 820  |
| 70                 | 733  | 731  | 709  | 676  | 625  | 572  | 508  | 452  | 398  | 379  | 389  | 435  | 487  | 547  | 598  | 648  | 681  | 708  | 732  |
| 75                 | 647  | 643  | 621  | 585  | 531  | 473  | 404  | 340  | 279  | 253  | 269  | 324  | 384  | 450  | 506  | 559  | 596  | 624  | 648  |
| 80                 | 568  | 563  | 540  | 502  | 446  | 384  | 310  | 239  | 170  | 138  | 160  | 225  | 292  | 363  | 423  | 479  | 517  | 546  | 569  |
| 85                 | 497  | 492  | 469  | 430  | 374  | 310  | 234  | 159  | 84.2 | 43.5 | 75.7 | 146  | 218  | 291  | 353  | 408  | 447  | 476  | 497  |
| 90                 | 434  | 429  | 406  | 369  | 314  | 252  | 180  | 108  | 39.1 | 1.56 | 32.2 | 97.0 | 165  | 235  | 295  | 348  | 386  | 414  | 434  |
| 95                 | 381  | 375  | 354  | 318  | 268  | 211  | 146  | 82.7 | 28.1 | 2.77 | 23.5 | 74.3 | 134  | 196  | 251  | 300  | 336  | 361  | 379  |
| 100                | 336  | 331  | 311  | 279  | 232  | 178  | 119  | 70.8 | 26.2 | 5.64 | 22.3 | 65.0 | 117  | 171  | 219  | 264  | 297  | 320  | 334  |
| 105                | 299  | 295  | 277  | 246  | 202  | 152  | 106  | 61.8 | 26.7 | 8.79 | 23.5 | 59.6 | 105  | 153  | 196  | 236  | 265  | 286  | 299  |
| 110                | 269  | 265  | 248  | 216  | 173  | 137  | 92.0 | 55.1 | 26.2 | 12.2 | 25.5 | 56.6 | 96.5 | 139  | 179  | 214  | 240  | 258  | 269  |
| 115                | 241  | 238  | 222  | 189  | 157  | 117  | 79.1 | 50.2 | 26.4 | 15.7 | 29.0 | 54.8 | 89.4 | 127  | 162  | 195  | 218  | 235  | 244  |
| 120                | 216  | 214  | 196  | 166  | 131  | 97.9 | 69.6 | 45.7 | 27.4 | 19.1 | 32.5 | 53.7 | 83.7 | 117  | 147  | 176  | 197  | 213  | 220  |
| 125                | 193  | 191  | 172  | 145  | 110  | 85.6 | 63.1 | 42.1 | 28.8 | 22.3 | 36.0 | 53.1 | 78.9 | 107  | 134  | 159  | 177  | 191  | 199  |
| 130                | 172  | 171  | 149  | 120  | 95.4 | 75.3 | 56.3 | 39.5 | 30.2 | 25.3 | 39.4 | 55.2 | 74.7 | 99.0 | 122  | 144  | 159  | 171  | 178  |
| 135                | 152  | 151  | 128  | 100  | 83.1 | 66.6 | 50.5 | 39.2 | 31.6 | 28.0 | 42.5 | 56.7 | 70.9 | 91.4 | 111  | 129  | 142  | 152  | 158  |
| 140                | 134  | 132  | 103  | 86.0 | 71.5 | 58.1 | 45.7 | 38.6 | 33.5 | 31.5 | 44.8 | 58.1 | 70.8 | 84.4 | 101  | 116  | 126  | 135  | 140  |
| 145                | 117  | 114  | 84.2 | 73.5 | 61.1 | 51.1 | 45.2 | 41.1 | 37.6 | 36.5 | 46.8 | 59.3 | 69.8 | 80.5 | 91.1 | 103  | 112  | 119  | 123  |
| 150                | 102  | 96.9 | 70.1 | 61.9 | 52.3 | 49.2 | 47.2 | 44.5 | 42.1 | 41.5 | 49.3 | 60.4 | 69.0 | 77.6 | 85.7 | 91.9 | 98.8 | 104  | 107  |
| 155                | 87.8 | 74.2 | 57.5 | 53.5 | 49.6 | 50.3 | 49.4 | 47.7 | 46.5 | 46.3 | 51.8 | 60.9 | 68.1 | 74.8 | 80.8 | 86.4 | 90.2 | 91.0 | 92.3 |
| 160                | 78.5 | 58.3 | 51.5 | 48.1 | 50.1 | 51.8 | 51.7 | 51.1 | 50.7 | 50.8 | 54.1 | 60.4 | 67.1 | 72.1 | 76.4 | 80.2 | 82.5 | 84.0 | 80.7 |
| 165                | 69.1 | 47.9 | 46.2 | 47.3 | 51.7 | 53.7 | 54.4 | 54.5 | 54.5 | 54.8 | 56.4 | 60.8 | 64.8 | 69.3 | 72.2 | 74.6 | 75.7 | 75.4 | 70.9 |
| 170                | 61.5 | 40.0 | 43.1 | 49.7 | 53.9 | 56.1 | 57.1 | 57.6 | 57.8 | 58.3 | 59.2 | 61.2 | 63.3 | 65.2 | 67.4 | 69.3 | 69.3 | 67.4 | 64.0 |
| 175                | 37.3 | 37.5 | 47.0 | 53.6 | 56.9 | 58.7 | 59.8 | 60.4 | 60.8 | 61.1 | 61.5 | 62.0 | 62.5 | 63.0 | 63.1 | 63.1 | 61.6 | 56.7 | 37.8 |
| 180                | 33.8 | 46.8 | 55.1 | 58.8 | 60.4 | 61.6 | 62.2 | 62.6 | 62.8 | 62.9 | 62.8 | 62.7 | 62.4 | 61.9 | 60.9 | 59.3 | 56.1 | 48.0 | 33.9 |

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:20DEG**  
**Operators:LITPA**  
**Test Date:13/05/2020**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:7.200m [K=1.0000]**  
**Remarks: ELP/M120-58W**

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |                  |  |  |
|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|------------------|--|--|
| Test:U:230.33V I:0.2467A P:55.791W PF:0.9819 Freq:50.01Hz Lamp Flux:5925.46x1 lm |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |                  |  |  |
| NAME: ELP/M120   |  |  |  |  |  |  |  |  | TYPE:LED           |  |  |  |  |  | WEIGHT:1.160kg   |  |  |
| SPEC.:58W  |  |  |  |  |  |  |  |  | DIM.: 1230X80X70mm |  |  |  |  |  | SERIAL No.:      |  |  |
| MFR.: LITPA AYDINLATMA   |  |  |  |  |  |  |  |  | SUR.:              |  |  |  |  |  | Shielding 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                  | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 | 1529 |  |  |
| 5                  | 1521 | 1520 | 1520 | 1520 | 1520 | 1521 | 1521 | 1522 | 1522 | 1523 | 1524 | 1525 | 1526 | 1527 | 1528 | 1529 | 1528 |  |  |
| 10                 | 1502 | 1501 | 1500 | 1499 | 1498 | 1498 | 1497 | 1499 | 1499 | 1502 | 1503 | 1507 | 1509 | 1513 | 1515 | 1517 | 1517 |  |  |
| 15                 | 1474 | 1471 | 1468 | 1467 | 1463 | 1462 | 1460 | 1461 | 1462 | 1466 | 1469 | 1475 | 1480 | 1487 | 1490 | 1495 | 1495 |  |  |
| 20                 | 1436 | 1433 | 1427 | 1423 | 1417 | 1414 | 1409 | 1410 | 1410 | 1416 | 1421 | 1430 | 1438 | 1448 | 1455 | 1462 | 1464 |  |  |
| 25                 | 1391 | 1386 | 1377 | 1370 | 1360 | 1353 | 1346 | 1346 | 1346 | 1353 | 1360 | 1373 | 1384 | 1399 | 1409 | 1419 | 1423 |  |  |
| 30                 | 1339 | 1331 | 1319 | 1308 | 1293 | 1283 | 1273 | 1271 | 1270 | 1278 | 1288 | 1305 | 1321 | 1340 | 1354 | 1368 | 1373 |  |  |
| 35                 | 1279 | 1270 | 1253 | 1239 | 1218 | 1205 | 1190 | 1186 | 1184 | 1194 | 1206 | 1228 | 1247 | 1272 | 1290 | 1308 | 1316 |  |  |
| 40                 | 1214 | 1201 | 1182 | 1162 | 1137 | 1118 | 1099 | 1092 | 1089 | 1100 | 1115 | 1141 | 1166 | 1196 | 1219 | 1241 | 1251 |  |  |
| 45                 | 1142 | 1127 | 1103 | 1080 | 1049 | 1025 | 1000 | 990  | 986  | 999  | 1017 | 1048 | 1078 | 1114 | 1141 | 1167 | 1179 |  |  |
| 50                 | 1064 | 1047 | 1020 | 993  | 957  | 927  | 897  | 882  | 876  | 891  | 913  | 949  | 985  | 1026 | 1058 | 1087 | 1101 |  |  |
| 55                 | 982  | 963  | 932  | 901  | 860  | 825  | 788  | 769  | 760  | 777  | 802  | 845  | 886  | 933  | 968  | 1001 | 1016 |  |  |
| 60                 | 896  | 875  | 841  | 806  | 760  | 719  | 675  | 651  | 639  | 658  | 689  | 738  | 785  | 836  | 875  | 911  | 927  |  |  |
| 65                 | 808  | 786  | 749  | 709  | 658  | 611  | 561  | 530  | 515  | 536  | 573  | 629  | 681  | 736  | 779  | 817  | 835  |  |  |
| 70                 | 720  | 696  | 656  | 613  | 558  | 504  | 447  | 407  | 388  | 412  | 457  | 519  | 577  | 636  | 683  | 723  | 744  |  |  |
| 75                 | 635  | 610  | 568  | 521  | 461  | 401  | 336  | 287  | 262  | 291  | 344  | 413  | 477  | 540  | 591  | 634  | 656  |  |  |
| 80                 | 556  | 530  | 487  | 437  | 373  | 308  | 236  | 178  | 145  | 179  | 240  | 316  | 386  | 454  | 506  | 551  | 572  |  |  |
| 85                 | 485  | 458  | 416  | 364  | 300  | 231  | 156  | 88.7 | 48.9 | 87.7 | 158  | 237  | 310  | 378  | 433  | 476  | 495  |  |  |
| 90                 | 422  | 397  | 355  | 305  | 243  | 177  | 105  | 39.9 | 1.65 | 36.2 | 103  | 180  | 249  | 313  | 365  | 405  | 400  |  |  |
| 95                 | 368  | 344  | 306  | 259  | 202  | 142  | 80.0 | 27.3 | 2.50 | 18.6 | 66.7 | 127  | 179  | 210  | 254  | 294  | 311  |  |  |
| 100                | 325  | 303  | 268  | 226  | 175  | 122  | 69.4 | 25.1 | 5.48 | 21.8 | 62.5 | 110  | 164  | 222  | 257  | 277  | 280  |  |  |
| 105                | 290  | 271  | 240  | 202  | 157  | 110  | 63.3 | 25.6 | 8.69 | 24.1 | 58.4 | 101  | 146  | 193  | 235  | 270  | 286  |  |  |
| 110                | 262  | 245  | 217  | 184  | 142  | 101  | 59.5 | 27.2 | 12.1 | 24.5 | 53.6 | 91.8 | 135  | 177  | 212  | 238  | 264  |  |  |
| 115                | 237  | 222  | 197  | 167  | 130  | 92.9 | 57.2 | 30.2 | 15.6 | 25.2 | 48.7 | 78.5 | 117  | 159  | 193  | 221  | 238  |  |  |
| 120                | 214  | 201  | 178  | 152  | 119  | 86.6 | 55.8 | 33.6 | 19.1 | 26.5 | 44.6 | 69.7 | 97.5 | 135  | 172  | 198  | 209  |  |  |
| 125                | 192  | 181  | 161  | 138  | 110  | 81.3 | 54.8 | 36.9 | 22.4 | 28.1 | 41.3 | 63.1 | 85.0 | 112  | 145  | 176  | 185  |  |  |
| 130                | 172  | 162  | 144  | 125  | 101  | 76.8 | 56.3 | 40.2 | 25.4 | 29.8 | 39.7 | 56.4 | 75.7 | 95.9 | 119  | 157  | 169  |  |  |
| 135                | 153  | 145  | 130  | 113  | 93.0 | 72.6 | 57.6 | 43.3 | 28.1 | 31.3 | 39.1 | 50.8 | 66.9 | 84.0 | 101  | 134  | 152  |  |  |
| 140                | 136  | 129  | 116  | 103  | 85.7 | 71.8 | 58.8 | 46.0 | 31.5 | 33.1 | 38.7 | 46.4 | 58.7 | 73.0 | 86.1 | 106  | 134  |  |  |
| 145                | 119  | 114  | 104  | 92.7 | 80.3 | 70.6 | 60.0 | 47.9 | 36.6 | 37.4 | 41.3 | 45.6 | 51.8 | 62.7 | 74.7 | 85.8 | 114  |  |  |
| 150                | 105  | 100  | 92.4 | 85.7 | 78.0 | 69.7 | 61.0 | 50.1 | 41.7 | 42.1 | 44.6 | 47.5 | 50.0 | 53.9 | 62.8 | 72.2 | 95.2 |  |  |
| 155                | 91.0 | 89.7 | 86.4 | 81.4 | 75.1 | 68.7 | 61.5 | 52.6 | 46.5 | 46.5 | 48.0 | 49.8 | 51.0 | 50.9 | 54.6 | 59.7 | 74.1 |  |  |
| 160                | 83.7 | 82.9 | 80.2 | 76.8 | 72.3 | 67.6 | 61.0 | 54.8 | 50.9 | 50.7 | 51.3 | 52.1 | 52.5 | 51.3 | 49.3 | 53.7 | 59.4 |  |  |
| 165                | 74.0 | 75.8 | 74.5 | 72.6 | 69.5 | 65.5 | 61.2 | 56.7 | 54.9 | 54.4 | 54.6 | 54.6 | 54.2 | 52.6 | 48.7 | 47.7 | 49.2 |  |  |
| 170                | 66.1 | 69.2 | 69.0 | 67.8 | 65.3 | 63.5 | 61.5 | 59.3 | 58.3 | 57.9 | 57.7 | 57.3 | 56.5 | 54.7 | 50.9 | 44.5 | 41.4 |  |  |
| 175                | 55.2 | 61.2 | 62.6 | 63.0 | 62.8 | 62.5 | 61.8 | 61.4 | 61.0 | 60.7 | 60.5 | 60.0 | 59.1 | 57.4 | 54.5 | 48.2 | 39.1 |  |  |
| 180                | 46.7 | 55.3 | 58.7 | 60.6 | 61.5 | 62.3 | 62.6 | 62.8 | 62.9 | 62.9 | 62.7 | 62.4 | 61.8 | 60.9 | 59.3 | 56.0 | 48.0 |  |  |

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:20DEG

Operators:LITPA

Test Date:13/05/2020

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400

Humidity:65.0%

Test Distance:7.200m [K=1.0000]

Remarks: ELP/M120-58W