

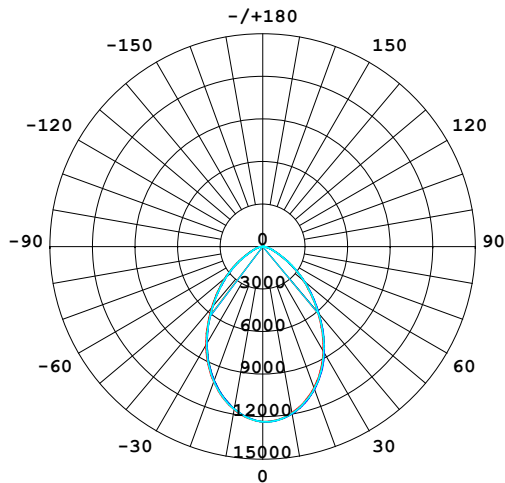
## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINAIRE PHOTOMETRIC TEST REPORT

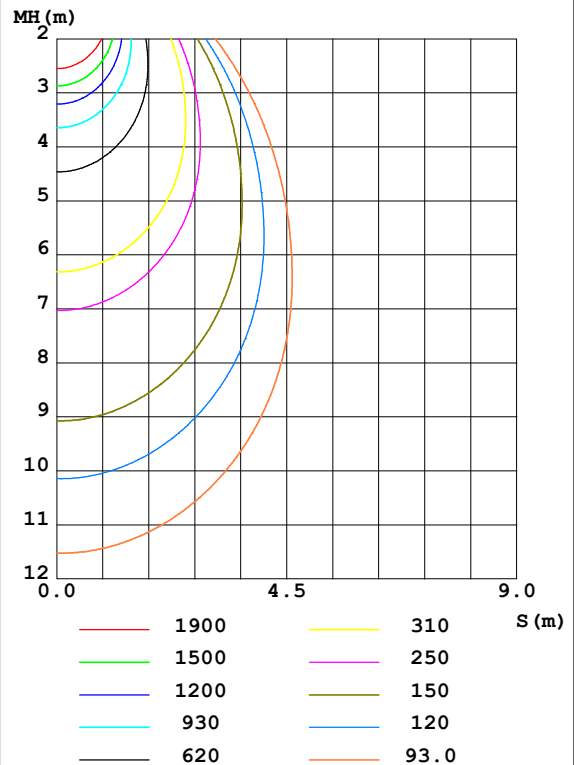
|                                                                                               |         |                  |
|-----------------------------------------------------------------------------------------------|---------|------------------|
| Test:U:220.26V I:0.5797A P:120.9W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20820 lm |         |                  |
| NAME: KM400-50HT                                                                              | TYPE: I | WEIGHT:          |
| SPEC.:                                                                                        | DIM.:   | SERIAL No.:      |
| MFR.: EVERFINE                                                                                | SUR.:   | Shielding Angle: |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 172.2 lm/W |        |                   |          |
|------------------|------------|----------------------------------|--------|-------------------|----------|
| MODEL            | KM400-50HT | I <sub>max</sub> (cd)            | 12362  | S/MH(C0/180)      | 1.02     |
| NOMINAL POWER(W) | 120        | LOR(%)                           | 100.0  | S/MH(C90/270)     | 1.01     |
| RATED VOLTAGE(V) | 220        | TOTAL FLUX(lm)                   | 20823  | η UP,DN(C0-180)   | 0.3,51.3 |
| NOMINAL FLUX(lm) | 20820      | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.3,48.2 |
| LAMPS INSIDE     | 1          | η up(%)                          | 0.5    | CIBSE SHR NOM     | 1.00     |
| TEST VOLTAGE(V)  | 220        | η down(%)                        | 99.5   | CIBSE SHR MAX     | 1.15     |

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:li yan feng  
Test Date:11 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

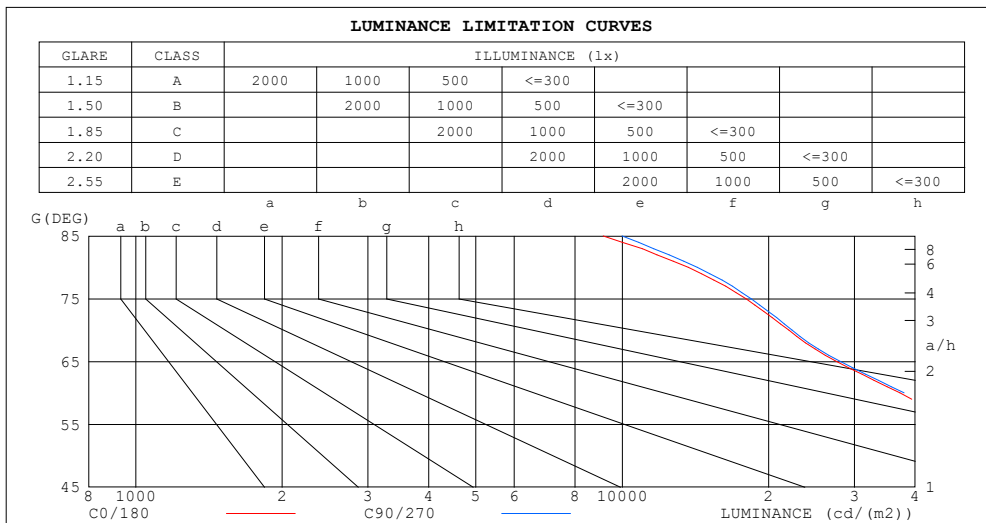
| $\gamma$ | C0                       | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10       | 1190                     | 1196   | 1194   | 1182   | 1168   | 1161   | 1165   | 1177   | 0- 10    | 1151        | 1151         | 5.53,5.53 |
| 20       | 1059                     | 1068   | 1065   | 1042   | 1014   | 1004   | 1010   | 1033   | 10- 20   | 3137        | 4288         | 20.6,20.6 |
| 30       | 854.9                    | 866.4  | 861.3  | 832.9  | 800.9  | 787.8  | 791.2  | 821.1  | 20- 30   | 4307        | 8595         | 41.3,41.3 |
| 40       | 604.7                    | 615.6  | 610.4  | 586.4  | 559.7  | 548.8  | 548.6  | 574.5  | 30- 40   | 4393        | 12988        | 62.4,62.4 |
| 50       | 376.8                    | 385.6  | 382.5  | 367.6  | 350.2  | 340.8  | 340.6  | 358.1  | 40- 50   | 3608        | 16596        | 79.7,79.7 |
| 60       | 186.1                    | 191.3  | 189.7  | 179.9  | 170.2  | 164.3  | 163.8  | 175.2  | 50- 60   | 2374        | 18969        | 91.1,91.1 |
| 70       | 75.26                    | 76.93  | 76.44  | 74.04  | 71.20  | 69.08  | 68.88  | 71.71  | 60- 70   | 1150        | 20120        | 96.6,96.6 |
| 80       | 23.76                    | 24.54  | 24.75  | 24.22  | 23.42  | 22.53  | 22.06  | 22.86  | 70- 80   | 489.3       | 20609        | 99,99     |
| 90       | 0.2635                   | 0.2415 | 0.2440 | 0.2644 | 0.1928 | 0.1892 | 0.1937 | 0.1838 | 80- 90   | 100.9       | 20710        | 99.5,99.5 |
| 100      | 0.4893                   | 0.4645 | 0.4641 | 0.4811 | 0.4385 | 0.4435 | 0.4422 | 0.4268 | 90-100   | 3.447       | 20713        | 99.5,99.5 |
| 110      | 0.9905                   | 0.9408 | 0.9478 | 0.9758 | 0.9245 | 0.9330 | 0.9524 | 0.8988 | 100-110  | 7.128       | 20720        | 99.5,99.5 |
| 120      | 1.744                    | 1.639  | 1.642  | 1.672  | 1.619  | 1.609  | 1.649  | 1.579  | 110-120  | 12.68       | 20733        | 99.6,99.6 |
| 130      | 2.584                    | 2.412  | 2.348  | 2.416  | 2.354  | 2.312  | 2.343  | 2.317  | 120-130  | 17.92       | 20751        | 99.7,99.7 |
| 140      | 3.359                    | 3.154  | 3.129  | 3.087  | 2.985  | 2.936  | 3.078  | 3.000  | 130-140  | 21.15       | 20772        | 99.8,99.8 |
| 150      | 3.757                    | 3.685  | 3.621  | 3.507  | 3.235  | 3.246  | 3.443  | 3.409  | 140-150  | 20.75       | 20793        | 99.9,99.9 |
| 160      | 3.671                    | 3.870  | 3.780  | 3.623  | 3.101  | 3.221  | 3.377  | 3.506  | 150-160  | 16.32       | 20809        | 99.9,99.9 |
| 170      | 3.554                    | 3.767  | 3.739  | 3.555  | 3.108  | 3.145  | 3.400  | 3.460  | 160-170  | 9.959       | 20819        | 100,100   |
| 180      | 3.556                    | 3.697  | 3.616  | 3.802  | 3.556  | 3.695  | 3.617  | 3.801  | 170-180  | 3.378       | 20823        | 100,100   |
| DEG      | LUMINOUS INTENSITY:×10cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:li yan feng  
 Test Date:11 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
 Humidity:65.0%  
 Test Distance:3.250m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 9132   | 9995    |
| 80                | 13680  | 14255   |
| 75                | 17969  | 18404   |
| 70                | 22003  | 22352   |
| 65                | 27592  | 28099   |
| 60                | 37210  | 37953   |
| 55                | 47922  | 48978   |
| 50                | 58612  | 59507   |
| 45                | 68711  | 69613   |

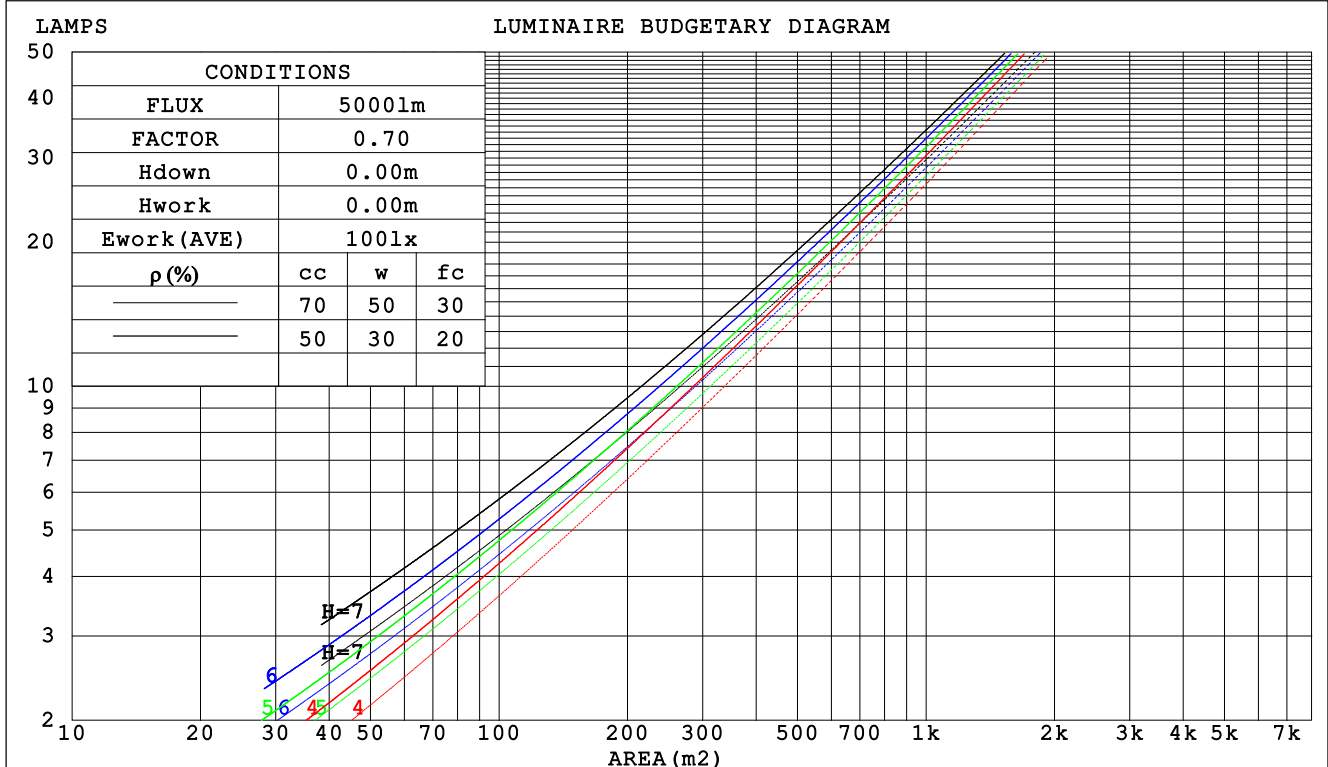
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

$\gamma$  Range: 0 - 180DEG  
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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | 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                   | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| RCR:Room Cavity Ratio |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 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 | .99 |
| 1.0                   | 1.07                            | 1.04 | 1.01 | 1.05 | 1.02 | .99  | 1.01 | .98  | .96  | .97  | .95  | .93  | .93  | .92  | .90  | .88 |
| 2.0                   | .96                             | .91  | .86  | .94  | .89  | .85  | .91  | .87  | .83  | .88  | .84  | .81  | .85  | .82  | .79  | .77 |
| 3.0                   | .87                             | .80  | .75  | .85  | .79  | .74  | .82  | .77  | .73  | .80  | .75  | .71  | .77  | .73  | .70  | .68 |
| 4.0                   | .79                             | .71  | .66  | .77  | .70  | .65  | .75  | .69  | .64  | .73  | .67  | .63  | .70  | .66  | .62  | .61 |
| 5.0                   | .71                             | .64  | .58  | .70  | .63  | .58  | .68  | .62  | .57  | .66  | .61  | .57  | .65  | .60  | .56  | .54 |
| 6.0                   | .65                             | .58  | .52  | .64  | .57  | .52  | .63  | .56  | .51  | .61  | .55  | .51  | .59  | .54  | .50  | .49 |
| 7.0                   | .60                             | .52  | .47  | .59  | .52  | .47  | .58  | .51  | .46  | .56  | .50  | .46  | .55  | .50  | .46  | .44 |
| 8.0                   | .55                             | .48  | .43  | .55  | .47  | .42  | .53  | .47  | .42  | .52  | .46  | .42  | .51  | .46  | .42  | .40 |
| 9.0                   | .51                             | .44  | .39  | .51  | .44  | .39  | .50  | .43  | .39  | .49  | .43  | .38  | .48  | .42  | .38  | .37 |
| 10.0                  | .48                             | .41  | .36  | .47  | .40  | .36  | .46  | .40  | .36  | .45  | .39  | .35  | .44  | .39  | .35  | .34 |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                              |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                              |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .242                  | .138 | .044 | .235 | .134 | .043 | .222                             | .127 | .041 | .209 | .121 | .039 | .198 | .115 | .037 |   |  |
| 2.0  | .234                  | .128 | .039 | .228 | .125 | .039 | .216                             | .120 | .037 | .206 | .115 | .036 | .196 | .111 | .035 |   |  |
| 3.0  | .221                  | .118 | .035 | .216 | .116 | .035 | .206                             | .112 | .034 | .197 | .108 | .033 | .188 | .104 | .032 |   |  |
| 4.0  | .209                  | .108 | .032 | .204 | .107 | .032 | .195                             | .103 | .031 | .187 | .100 | .030 | .179 | .097 | .030 |   |  |
| 5.0  | .196                  | .100 | .029 | .192 | .099 | .029 | .184                             | .096 | .028 | .177 | .093 | .028 | .170 | .091 | .027 |   |  |
| 6.0  | .185                  | .093 | .027 | .181 | .091 | .026 | .174                             | .089 | .026 | .168 | .087 | .026 | .161 | .085 | .025 |   |  |
| 7.0  | .174                  | .086 | .024 | .171 | .085 | .024 | .165                             | .083 | .024 | .159 | .081 | .024 | .153 | .080 | .023 |   |  |
| 8.0  | .164                  | .080 | .023 | .161 | .080 | .022 | .156                             | .078 | .022 | .151 | .076 | .022 | .146 | .075 | .022 |   |  |
| 9.0  | .156                  | .075 | .021 | .153 | .075 | .021 | .148                             | .073 | .021 | .143 | .072 | .021 | .139 | .070 | .020 |   |  |
| 10.0 | .147                  | .071 | .020 | .145 | .070 | .020 | .141                             | .069 | .019 | .136 | .068 | .019 | .132 | .066 | .019 |   |  |

| 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  | .195                  | .195 | .195 | .166 | .166 | .166 | .114                                       | .114 | .114 | .065 | .065 | .065 | .021 | .021 | .021 |   |
| 1.0  | .180                  | .161 | .144 | .154 | .138 | .124 | .105                                       | .095 | .086 | .061 | .055 | .050 | .019 | .018 | .016 |   |
| 2.0  | .169                  | .136 | .109 | .144 | .117 | .094 | .099                                       | .081 | .066 | .057 | .047 | .039 | .018 | .015 | .013 |   |
| 3.0  | .159                  | .118 | .085 | .137 | .102 | .074 | .094                                       | .071 | .052 | .054 | .041 | .031 | .017 | .013 | .010 |   |
| 4.0  | .151                  | .104 | .069 | .130 | .090 | .060 | .089                                       | .063 | .042 | .052 | .037 | .025 | .017 | .012 | .008 |   |
| 5.0  | .144                  | .093 | .056 | .123 | .081 | .049 | .085                                       | .056 | .035 | .049 | .033 | .021 | .016 | .011 | .007 |   |
| 6.0  | .137                  | .085 | .048 | .118 | .073 | .041 | .081                                       | .051 | .029 | .047 | .030 | .017 | .015 | .010 | .006 |   |
| 7.0  | .130                  | .078 | .041 | .112 | .067 | .036 | .077                                       | .047 | .025 | .045 | .028 | .015 | .015 | .009 | .005 |   |
| 8.0  | .124                  | .072 | .036 | .107 | .062 | .031 | .074                                       | .044 | .022 | .043 | .026 | .013 | .014 | .008 | .004 |   |
| 9.0  | .119                  | .067 | .032 | .102 | .058 | .028 | .071                                       | .041 | .020 | .041 | .024 | .012 | .013 | .008 | .004 |   |
| 10.0 | .114                  | .063 | .028 | .098 | .054 | .025 | .068                                       | .038 | .018 | .040 | .023 | .011 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                                    |                  |      |      |      |                          |                |      |                  |      |      |
|----------------------------------------------------------------------------------------------------|------------------|------|------|------|--------------------------|----------------|------|------------------|------|------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                  |      |      |      |                          |                |      |                  |      |      |
| NAME: KFM400-50HT-I 120W                                                                           |                  |      |      |      | TYPE: KFM400-50HT-I 120W |                |      | WEIGHT:          |      |      |
| SPEC.: 120W                                                                                        |                  |      |      |      | DIM.:                    |                |      | SERIAL No.:      |      |      |
| MFR.: EVERFINE                                                                                     |                  |      |      |      | 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                                                                                      | 15.1             | 16.4 | 15.3 | 16.5 | 16.7                     | 15.1           | 16.4 | 15.4             | 16.6 | 16.8 |
| 3H                                                                                                 | 15.4             | 16.6 | 15.7 | 16.8 | 17.1                     | 15.5           | 16.7 | 15.8             | 16.9 | 17.1 |
| 4H                                                                                                 | 15.6             | 16.7 | 15.9 | 16.9 | 17.2                     | 15.6           | 16.7 | 15.9             | 17.0 | 17.2 |
| 6H                                                                                                 | 15.6             | 16.6 | 15.9 | 16.9 | 17.2                     | 15.7           | 16.7 | 16.0             | 17.0 | 17.2 |
| 8H                                                                                                 | 15.6             | 16.6 | 15.9 | 16.9 | 17.2                     | 15.6           | 16.7 | 16.0             | 16.9 | 17.2 |
| 12H                                                                                                | 15.6             | 16.5 | 15.9 | 16.8 | 17.1                     | 15.6           | 16.6 | 16.0             | 16.9 | 17.2 |
| 4H 2H                                                                                              | 15.2             | 16.4 | 15.5 | 16.6 | 16.9                     | 15.3           | 16.4 | 15.6             | 16.6 | 16.9 |
| 3H                                                                                                 | 15.7             | 16.7 | 16.1 | 17.0 | 17.3                     | 15.8           | 16.7 | 16.1             | 17.0 | 17.3 |
| 4H                                                                                                 | 15.9             | 16.8 | 16.3 | 17.1 | 17.5                     | 16.0           | 16.9 | 16.4             | 17.2 | 17.5 |
| 6H                                                                                                 | 16.0             | 16.8 | 16.4 | 17.2 | 17.5                     | 16.1           | 16.9 | 16.5             | 17.2 | 17.6 |
| 8H                                                                                                 | 16.1             | 16.8 | 16.5 | 17.1 | 17.5                     | 16.1           | 16.8 | 16.5             | 17.2 | 17.6 |
| 12H                                                                                                | 16.0             | 16.7 | 16.5 | 17.1 | 17.5                     | 16.1           | 16.8 | 16.5             | 17.1 | 17.6 |
| 8H 4H                                                                                              | 16.0             | 16.7 | 16.4 | 17.0 | 17.4                     | 16.0           | 16.7 | 16.4             | 17.1 | 17.5 |
| 6H                                                                                                 | 16.1             | 16.7 | 16.6 | 17.1 | 17.6                     | 16.2           | 16.8 | 16.6             | 17.2 | 17.6 |
| 8H                                                                                                 | 16.2             | 16.7 | 16.6 | 17.1 | 17.6                     | 16.2           | 16.7 | 16.7             | 17.2 | 17.6 |
| 12H                                                                                                | 16.2             | 16.6 | 16.7 | 17.1 | 17.6                     | 16.2           | 16.7 | 16.7             | 17.1 | 17.6 |
| 12H 4H                                                                                             | 15.9             | 16.6 | 16.4 | 17.0 | 17.4                     | 16.0           | 16.6 | 16.4             | 17.0 | 17.4 |
| 6H                                                                                                 | 16.1             | 16.6 | 16.6 | 17.1 | 17.5                     | 16.2           | 16.7 | 16.6             | 17.1 | 17.6 |
| 8H                                                                                                 | 16.2             | 16.6 | 16.6 | 17.1 | 17.5                     | 16.2           | 16.7 | 16.7             | 17.1 | 17.6 |
| Variations with the observer position at spacings(CIE Pub.117):                                    |                  |      |      |      |                          |                |      |                  |      |      |
| S = 1.0H                                                                                           | + 0.6 / - 0.8    |      |      |      |                          | + 0.6 / - 0.8  |      |                  |      |      |
| 1.5H                                                                                               | + 0.3 / - 0.4    |      |      |      |                          | + 0.3 / - 0.4  |      |                  |      |      |
| 2.0H                                                                                               | + 1.3 / - 1.5    |      |      |      |                          | + 1.3 / - 1.6  |      |                  |      |      |

CIE Pub.117, 20823 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.5)  
Area: 0.1 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                             |  |                          |                        |                  |  |
|-----------------------------------------------------------------------------|--|--------------------------|------------------------|------------------|--|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% |  |                          | Lamp Flux:20822.5x1 lm |                  |  |
| NAME: KFM400-50HT-I 120W                                                    |  | TYPE: KFM400-50HT-I 120W |                        | WEIGHT:          |  |
| SPEC.: 120W                                                                 |  | DIM.:                    |                        | SERIAL No.:      |  |
| MFR.: EVERFINE                                                              |  | SUR.:                    |                        | Shielding Angle: |  |

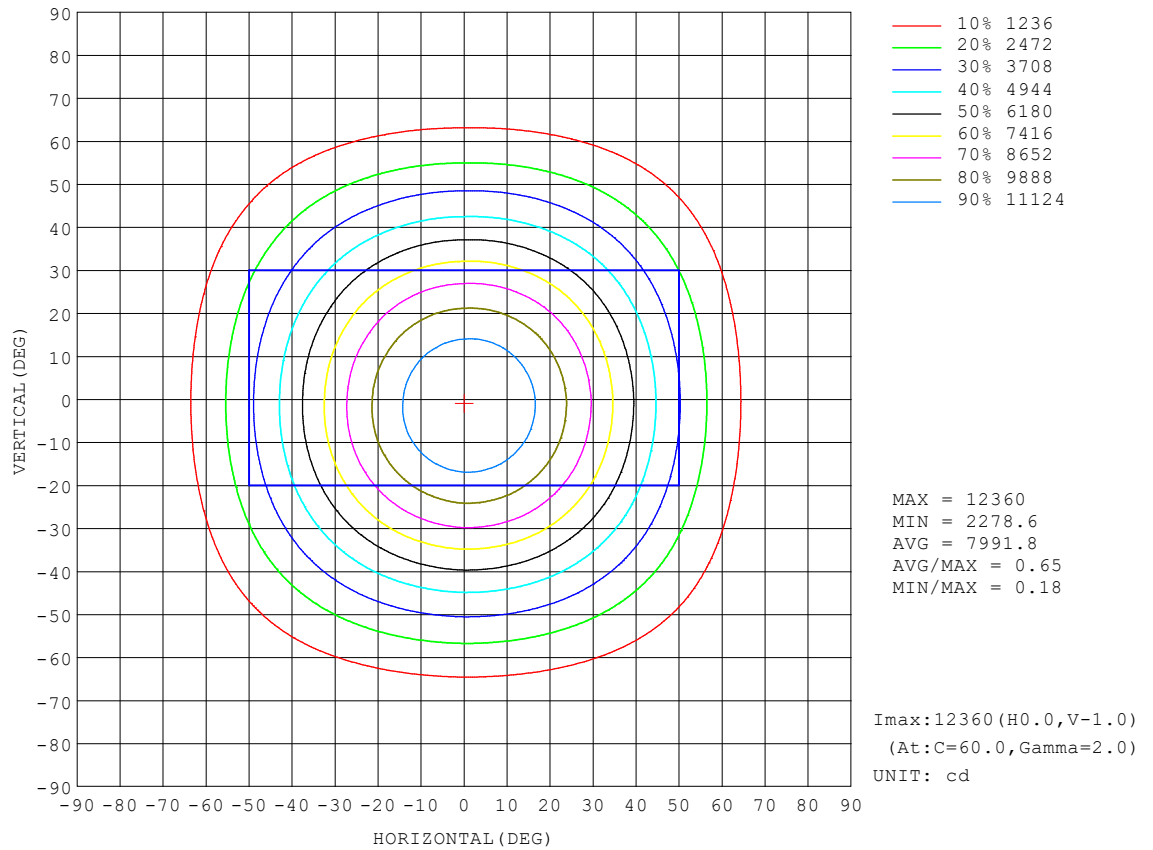
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 68                                                   | 58  | 52        | 67  | 58  | 52  | 66  | 57            | 52  | 46     |
| 0.80                             | 78                                                   | 68  | 62        | 77  | 68  | 62  | 75  | 67            | 62  | 56     |
| 1.00                             | 85                                                   | 76  | 71        | 84  | 76  | 70  | 82  | 77            | 70  | 64     |
| 1.25                             | 92                                                   | 83  | 78        | 90  | 83  | 77  | 88  | 81            | 76  | 70     |
| 1.50                             | 96                                                   | 88  | 83        | 94  | 87  | 82  | 92  | 86            | 81  | 75     |
| 2.00                             | 101                                                  | 95  | 90        | 99  | 93  | 89  | 96  | 91            | 87  | 81     |
| 2.50                             | 104                                                  | 98  | 93        | 102 | 97  | 92  | 99  | 94            | 91  | 83     |
| 3.00                             | 107                                                  | 101 | 97        | 105 | 100 | 96  | 101 | 97            | 94  | 86     |
| 4.00                             | 110                                                  | 105 | 102       | 107 | 103 | 100 | 103 | 100           | 97  | 89     |
| 5.00                             | 111                                                  | 108 | 105       | 109 | 106 | 103 | 105 | 102           | 100 | 91     |
| 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:li yan feng  
Test Date:11 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |

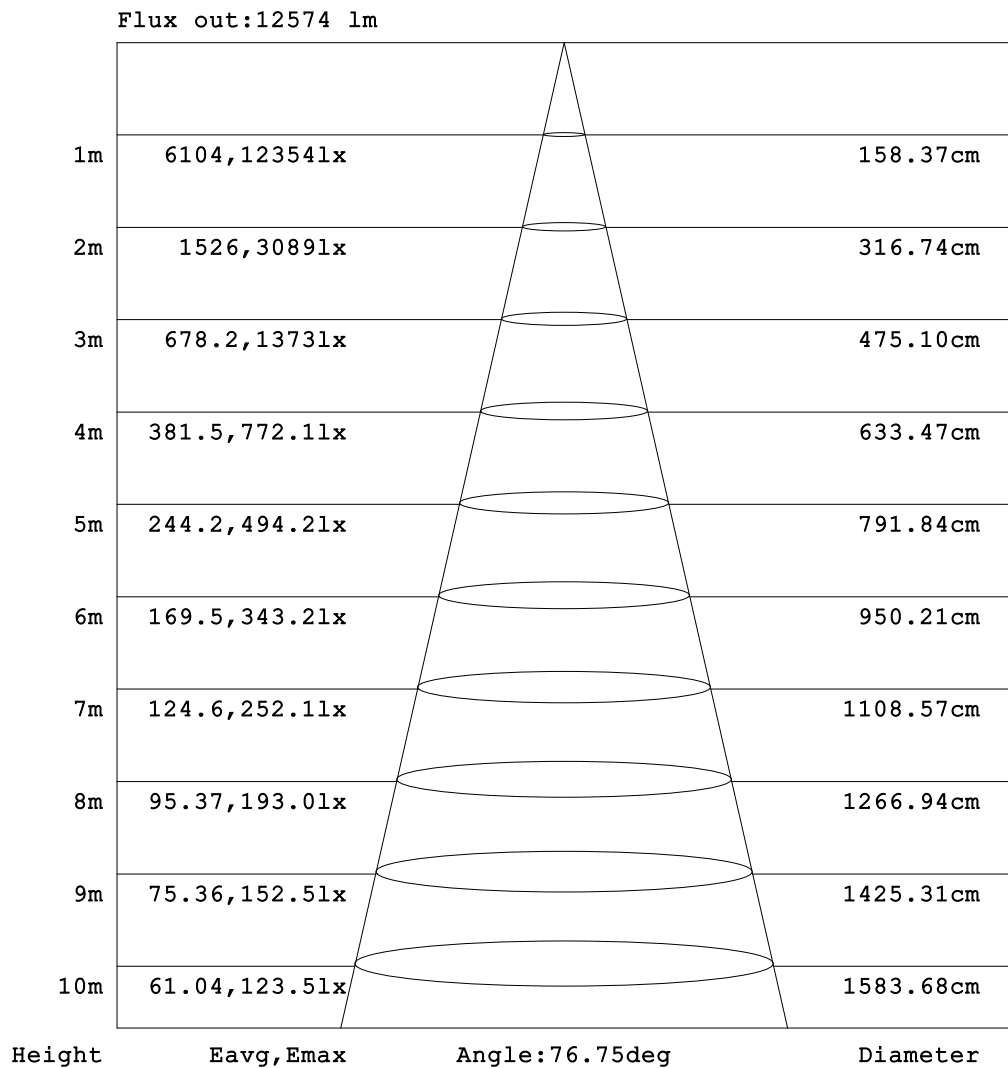


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

AAI Figure

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |



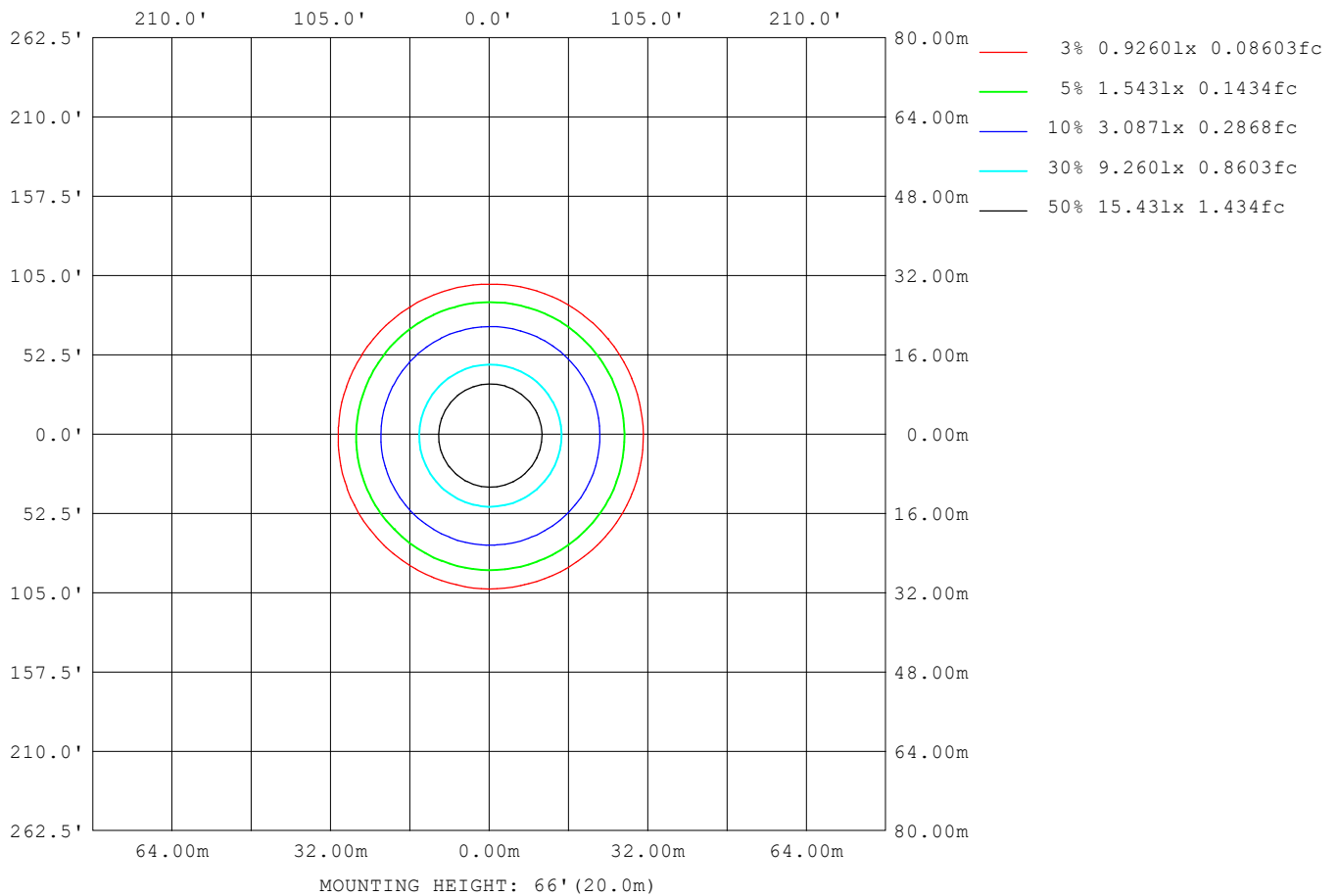
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: li yan feng  
 Test Date: 11 October 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 3.250m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

### LED Avg.L Report

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |

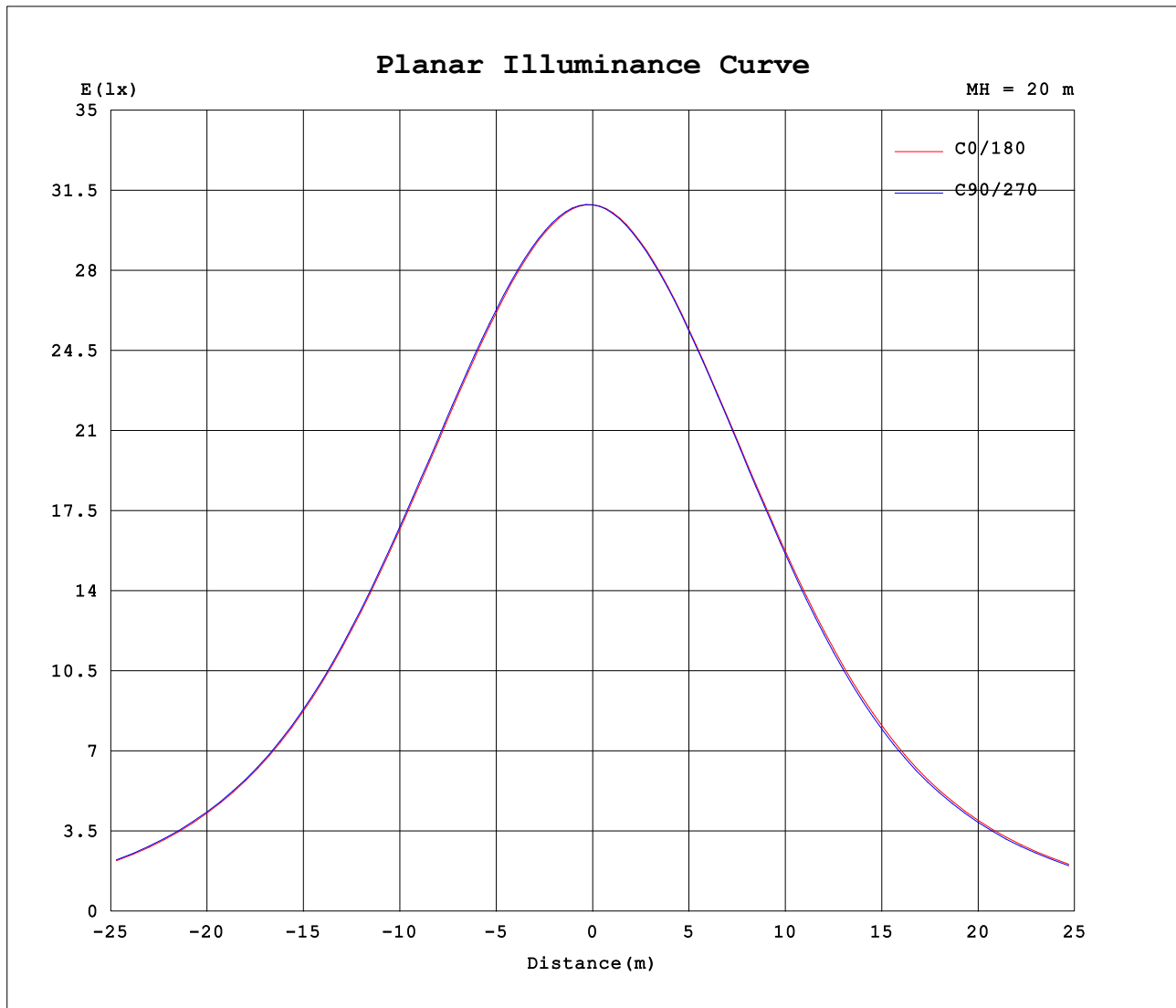
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 26563 |
| L_0~180 (75) av  | 17642 |
| L_0~180 (85) av  | 9340  |
| L_90~270 (65) av | 26338 |
| L_90~270 (75) av | 17526 |
| L_90~270 (85) av | 9245  |
| L_45 (65) av     | 26432 |
| L_45 (75) av     | 17608 |
| L_45 (85) av     | 9212  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:li yan feng  
Test Date:11 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
Humidity:65.0%  
Test Distance:3.250m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: li yan feng  
 Test Date: 11 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426  
 Humidity: 65.0%  
 Test Distance: 3.250m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                                    |                          |                  |
|----------------------------------------------------------------------------------------------------|--------------------------|------------------|
| Test:U:220.26V I:0.5797A P:121.25W PF:0.9496 Freq:49.99Hz UTHDi:0% ITHDi:0% Lamp Flux:20822.5x1 lm |                          |                  |
| NAME: KFM400-50HT-I 120W                                                                           | TYPE: KFM400-50HT-I 120W | WEIGHT:          |
| SPEC.: 120W                                                                                        | DIM.:                    | SERIAL No.:      |
| MFR.: EVERFINE                                                                                     | SUR.:                    | Shielding Angle: |

Table--1

UNIT: ×10cd

| C (DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                  | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 | 1235 |  |  |  |  |  |  |
| 5                  | 1225 | 1228 | 1229 | 1228 | 1224 | 1219 | 1214 | 1211 | 1211 | 1212 | 1216 | 1221 |  |  |  |  |  |  |
| 10                 | 1190 | 1196 | 1197 | 1194 | 1187 | 1178 | 1168 | 1162 | 1161 | 1165 | 1173 | 1181 |  |  |  |  |  |  |
| 15                 | 1134 | 1141 | 1143 | 1139 | 1129 | 1115 | 1100 | 1092 | 1092 | 1096 | 1108 | 1121 |  |  |  |  |  |  |
| 20                 | 1059 | 1067 | 1070 | 1065 | 1051 | 1033 | 1014 | 1004 | 1004 | 1010 | 1024 | 1042 |  |  |  |  |  |  |
| 25                 | 965  | 975  | 978  | 972  | 955  | 935  | 914  | 902  | 902  | 908  | 924  | 946  |  |  |  |  |  |  |
| 30                 | 855  | 865  | 868  | 861  | 843  | 823  | 801  | 788  | 787  | 791  | 809  | 833  |  |  |  |  |  |  |
| 35                 | 732  | 742  | 744  | 738  | 721  | 701  | 680  | 669  | 666  | 669  | 686  | 709  |  |  |  |  |  |  |
| 40                 | 605  | 615  | 616  | 610  | 595  | 578  | 560  | 550  | 547  | 549  | 564  | 585  |  |  |  |  |  |  |
| 45                 | 486  | 495  | 497  | 492  | 479  | 465  | 450  | 442  | 439  | 440  | 453  | 470  |  |  |  |  |  |  |
| 50                 | 377  | 385  | 386  | 382  | 373  | 362  | 350  | 342  | 339  | 341  | 352  | 365  |  |  |  |  |  |  |
| 55                 | 275  | 283  | 283  | 281  | 272  | 265  | 255  | 247  | 245  | 246  | 256  | 265  |  |  |  |  |  |  |
| 60                 | 186  | 192  | 191  | 190  | 183  | 177  | 170  | 165  | 164  | 164  | 172  | 179  |  |  |  |  |  |  |
| 65                 | 117  | 120  | 119  | 119  | 115  | 112  | 108  | 105  | 104  | 104  | 108  | 112  |  |  |  |  |  |  |
| 70                 | 75.3 | 77.0 | 76.8 | 76.4 | 74.7 | 73.4 | 71.2 | 69.3 | 68.9 | 68.9 | 70.6 | 72.8 |  |  |  |  |  |  |
| 75                 | 46.5 | 47.7 | 47.6 | 47.6 | 46.8 | 46.1 | 44.8 | 43.7 | 43.4 | 43.1 | 44.2 | 45.1 |  |  |  |  |  |  |
| 80                 | 23.8 | 24.6 | 24.5 | 24.8 | 24.3 | 24.2 | 23.4 | 22.6 | 22.5 | 22.1 | 22.7 | 23.0 |  |  |  |  |  |  |
| 85                 | 7.96 | 8.40 | 8.45 | 8.71 | 8.64 | 8.65 | 8.32 | 7.81 | 7.66 | 7.40 | 7.59 | 7.08 |  |  |  |  |  |  |
| 90                 | 0.26 | 0.24 | 0.24 | 0.24 | 0.26 | 0.26 | 0.19 | 0.20 | 0.18 | 0.19 | 0.18 | 0.19 |  |  |  |  |  |  |
| 95                 | 0.34 | 0.32 | 0.32 | 0.32 | 0.33 | 0.34 | 0.28 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 |  |  |  |  |  |  |
| 100                | 0.49 | 0.47 | 0.46 | 0.46 | 0.47 | 0.49 | 0.44 | 0.45 | 0.44 | 0.44 | 0.43 | 0.42 |  |  |  |  |  |  |
| 105                | 0.70 | 0.67 | 0.66 | 0.67 | 0.68 | 0.70 | 0.65 | 0.65 | 0.66 | 0.66 | 0.64 | 0.62 |  |  |  |  |  |  |
| 110                | 0.99 | 0.94 | 0.94 | 0.95 | 0.97 | 0.99 | 0.92 | 0.92 | 0.94 | 0.95 | 0.91 | 0.88 |  |  |  |  |  |  |
| 115                | 1.35 | 1.28 | 1.27 | 1.29 | 1.30 | 1.33 | 1.26 | 1.25 | 1.27 | 1.30 | 1.24 | 1.21 |  |  |  |  |  |  |
| 120                | 1.74 | 1.65 | 1.63 | 1.64 | 1.65 | 1.69 | 1.62 | 1.61 | 1.61 | 1.65 | 1.59 | 1.57 |  |  |  |  |  |  |
| 125                | 2.16 | 2.05 | 1.99 | 1.98 | 2.00 | 2.08 | 1.99 | 1.97 | 1.95 | 1.98 | 1.92 | 1.96 |  |  |  |  |  |  |
| 130                | 2.58 | 2.46 | 2.37 | 2.35 | 2.38 | 2.46 | 2.35 | 2.33 | 2.29 | 2.34 | 2.29 | 2.35 |  |  |  |  |  |  |
| 135                | 2.99 | 2.86 | 2.74 | 2.77 | 2.73 | 2.81 | 2.69 | 2.65 | 2.64 | 2.74 | 2.65 | 2.70 |  |  |  |  |  |  |
| 140                | 3.36 | 3.22 | 3.09 | 3.13 | 3.03 | 3.14 | 2.99 | 2.93 | 2.94 | 3.08 | 2.98 | 3.02 |  |  |  |  |  |  |
| 145                | 3.62 | 3.50 | 3.40 | 3.42 | 3.28 | 3.37 | 3.18 | 3.14 | 3.19 | 3.34 | 3.23 | 3.30 |  |  |  |  |  |  |
| 150                | 3.76 | 3.73 | 3.64 | 3.62 | 3.50 | 3.52 | 3.23 | 3.28 | 3.21 | 3.44 | 3.33 | 3.49 |  |  |  |  |  |  |
| 155                | 3.78 | 3.90 | 3.78 | 3.73 | 3.64 | 3.61 | 3.22 | 3.25 | 3.24 | 3.37 | 3.43 | 3.56 |  |  |  |  |  |  |
| 160                | 3.67 | 3.87 | 3.87 | 3.78 | 3.74 | 3.51 | 3.10 | 3.08 | 3.37 | 3.38 | 3.54 | 3.47 |  |  |  |  |  |  |
| 165                | 3.59 | 3.81 | 3.88 | 3.84 | 3.70 | 3.43 | 3.06 | 2.99 | 3.35 | 3.49 | 3.55 | 3.47 |  |  |  |  |  |  |
| 170                | 3.55 | 3.82 | 3.71 | 3.74 | 3.66 | 3.45 | 3.11 | 3.05 | 3.24 | 3.40 | 3.41 | 3.51 |  |  |  |  |  |  |
| 175                | 3.55 | 3.81 | 3.79 | 3.78 | 3.89 | 3.57 | 3.21 | 3.24 | 3.53 | 3.42 | 3.50 | 3.68 |  |  |  |  |  |  |
| 180                | 3.56 | 3.71 | 3.69 | 3.62 | 3.77 | 3.83 | 3.56 | 3.70 | 3.69 | 3.62 | 3.77 | 3.83 |  |  |  |  |  |  |

C Range: 0 - 360DEG

C Interval: 30.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:li yan feng

Test Date:11 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.426

Humidity:65.0%

Test Distance:3.250m [K=1.0000]

Remarks: