

## TEST REPORT

| Report reference No.....                                                    | GEN2026110.01                                                                      |                  |                        |                         |              |           |           |        |                |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------|------------------------|-------------------------|--------------|-----------|-----------|--------|----------------|
| Product.....                                                                | LED Grille Light                                                                   |                  |                        |                         |              |           |           |        |                |
| Family Name.....                                                            | GR30                                                                               |                  |                        |                         |              |           |           |        |                |
| Trademark.....                                                              |   |                  |                        |                         |              |           |           |        |                |
| Manufacturer.....                                                           | KOE Lighting Ltd.                                                                  |                  |                        |                         |              |           |           |        |                |
| Address.....                                                                | 25, Hejing Rd., Dongsha, Liwan District, Guangzhou, China                          |                  |                        |                         |              |           |           |        |                |
| Testing Laboratory.....                                                     | KOE Lab                                                                            |                  |                        |                         |              |           |           |        |                |
| <b>Model list:</b><br>GR30-F5B SWH/GBK 3000K[CRI90] ZD24D (LS-12-300 SI2 E) |                                                                                    |                  |                        |                         |              |           |           |        |                |
| <b>Declared data</b>                                                        |                                                                                    |                  |                        |                         |              |           |           |        |                |
| Rated Input                                                                 | Rated Power (W)                                                                    | No.of LEDs (PCS) | Rated Total Lumen (lm) | Rated Useful Lumen (lm) | Energy class | Imax (cd) | Life (hr) | Tc (K) | Beam angle (°) |
| AC220-240V                                                                  | 12.5                                                                               | 5                | 750                    | 740                     | F            | 2580      | 50000     | 3000K  | 24             |
| Power supply                                                                | LS-12-300 SI2 E                                                                    |                  |                        |                         |              |           |           |        |                |
| Light model                                                                 | SMD LED LS-125x20-5C-3030 SAMSUNG3030, 6V 300mA 2W, 3000K, L125xW20<CRI90>, 1000LM |                  |                        |                         |              |           |           |        |                |

|                     |            |                          |
|---------------------|------------|--------------------------|
| Light Output Ratio: | 75%        |                          |
| Luminaire Power:    | 11.5W      |                          |
| SUR.:               | 0.00325 m² |                          |
| SHR Nominal:        | 0.50       | Calculated using the TM5 |
| SHR Maximum:        | 0.60       | fine grid method.        |

H(β) Range: -90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Judy  
 Test Date: 2025-02-21

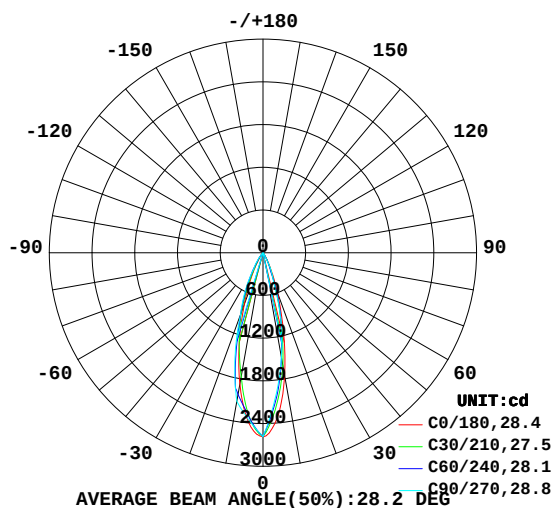
V(B) Range: -90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.262  
 Humidity: 65.0%  
 Test Distance: 7.880m [K=1.0000]

## LUMINAIRE PHOTOMETRIC TEST REPORT

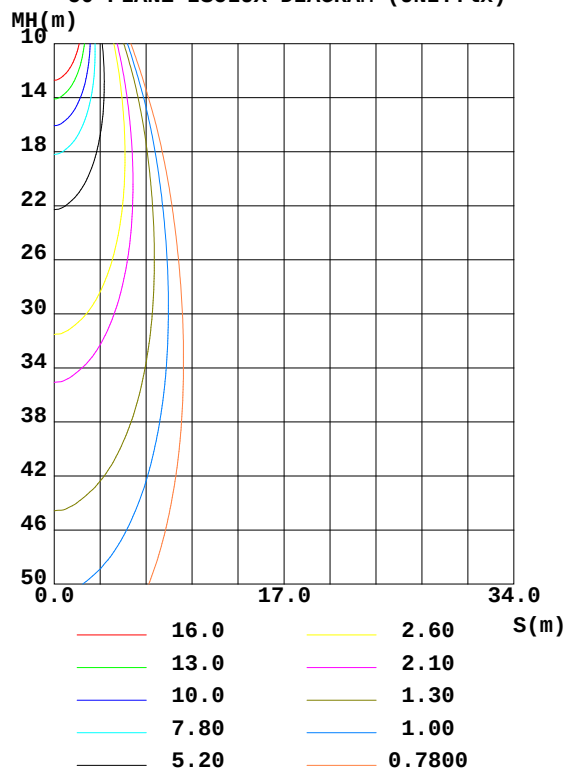
|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |

| DATA OF LAMP     |                      | PHOTOMETRIC DATA Eff: 65.52 lm/W |        |                    |           |
|------------------|----------------------|----------------------------------|--------|--------------------|-----------|
| MODEL            | LS-125x20-5C-3030 6V | I <sub>max</sub> (cd)            | 2583   | S/MH(C0/180)       | 0.49      |
| NOMINAL POWER(W) | 10                   | LOR(%)                           | 100.0  | S/MH(C90/270)      | 0.56      |
| RATED VOLTAGE(V) | 30                   | TOTAL FLUX(lm)                   | 753.50 | η UP, DN(C0-180)   | 0.0, 41.3 |
| NOMINAL FLUX(lm) | 150.701              | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.0, 58.7 |
| LAMPS INSIDE     | 5                    | η up(%)                          | 0.0    | CIBSE SHR NOM      | 0.50      |
| TEST VOLTAGE(V)  | 230                  | η down(%)                        | 100.0  | CIBSE SHR MAX      | 0.50      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [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 |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 5        | 2324                  | 2109   | 2034   | 2082   | 2381   | 2291   | 2350   | 2321   | 0- 5     | 56.42       | 56.42        | 7.49, 7.49 |
| 10       | 1750                  | 1538   | 1493   | 1526   | 1874   | 1890   | 2121   | 1891   | 5- 10    | 140.5       | 197.0        | 26.1, 26.1 |
| 15       | 1095                  | 932.1  | 966.6  | 1046   | 1283   | 1457   | 1523   | 1316   | 10- 15   | 171.6       | 368.6        | 48.9, 48.9 |
| 20       | 586.0                 | 531.4  | 438.7  | 561.7  | 767.3  | 864.7  | 920.0  | 836.7  | 15- 20   | 150.3       | 518.9        | 68.9, 68.9 |
| 25       | 278.9                 | 218.0  | 250.1  | 256.6  | 412.8  | 511.6  | 594.3  | 440.9  | 20- 25   | 105.9       | 624.8        | 82.9, 82.9 |
| 30       | 108.1                 | 83.47  | 60.60  | 105.0  | 183.5  | 268.4  | 265.1  | 214.9  | 25- 30   | 64.62       | 689.4        | 91.5, 91.5 |
| 35       | 42.46                 | 39.88  | 37.21  | 44.99  | 76.16  | 110.8  | 148.3  | 94.39  | 30- 35   | 31.91       | 721.3        | 95.7, 95.7 |
| 40       | 18.93                 | 17.35  | 13.72  | 20.86  | 29.59  | 45.77  | 29.80  | 31.27  | 35- 40   | 15.73       | 737.1        | 97.8, 97.8 |
| 45       | 10.45                 | 11.93  | 9.312  | 12.86  | 13.67  | 22.64  | 18.46  | 19.16  | 40- 45   | 7.343       | 744.4        | 98.8, 98.8 |
| 50       | 5.931                 | 6.936  | 4.889  | 7.922  | 7.078  | 12.18  | 7.083  | 9.971  | 45- 50   | 4.302       | 748.7        | 99.4, 99.4 |
| 55       | 3.110                 | 4.600  | 2.981  | 4.565  | 3.669  | 6.371  | 4.403  | 6.382  | 50- 55   | 2.525       | 751.2        | 99.7, 99.7 |
| 60       | 1.181                 | 2.338  | 1.075  | 2.377  | 1.602  | 3.152  | 1.733  | 3.160  | 55- 60   | 1.441       | 752.7        | 99.9, 99.9 |
| 65       | 0.0245                | 0.9218 | 0.5403 | 0.8547 | 0.1441 | 1.301  | 0.8654 | 1.443  | 60- 65   | 0.6310      | 753.3        | 100, 100   |
| 70       | 0.0152                | 0.0747 | 0.0076 | 0.1075 | 0.0265 | 0.2946 | 0      | 0.2833 | 65- 70   | 0.1777      | 753.5        | 100, 100   |
| 75       | 0.0152                | 0.0118 | 0.0038 | 0.0123 | 0.0227 | 0.0156 | 0      | 0.0230 | 70- 75   | 0.0185      | 753.5        | 100, 100   |
| 80       | 0.0152                | 0.0030 | 0      | 0.0030 | 0.0190 | 0      | 0      | 0      | 75- 80   | 0.0024      | 753.5        | 100, 100   |
| 85       | 0.0152                | 0      | 0      | 0      | 0.0133 | 0      | 0      | 0      | 80- 85   | 0.0012      | 753.5        | 100, 100   |
| 90       | 0.0152                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 85- 90   | 0.0003      | 753.5        | 100, 100   |
| 95       |                       |        |        |        |        |        |        |        | 90- 95   |             |              |            |
| 100      |                       |        |        |        |        |        |        |        | 95-100   |             |              |            |
| 105      |                       |        |        |        |        |        |        |        | 100-105  |             |              |            |
| 110      |                       |        |        |        |        |        |        |        | 105-110  |             |              |            |
| 115      |                       |        |        |        |        |        |        |        | 110-115  |             |              |            |
| 120      |                       |        |        |        |        |        |        |        | 115-120  |             |              |            |
| 125      |                       |        |        |        |        |        |        |        | 120-125  |             |              |            |
| 130      |                       |        |        |        |        |        |        |        | 125-130  |             |              |            |
| 135      |                       |        |        |        |        |        |        |        | 130-135  |             |              |            |
| 140      |                       |        |        |        |        |        |        |        | 135-140  |             |              |            |
| 145      |                       |        |        |        |        |        |        |        | 140-145  |             |              |            |
| 150      |                       |        |        |        |        |        |        |        | 145-150  |             |              |            |
| 155      |                       |        |        |        |        |        |        |        | 150-155  |             |              |            |
| 160      |                       |        |        |        |        |        |        |        | 155-160  |             |              |            |
| 165      |                       |        |        |        |        |        |        |        | 160-165  |             |              |            |
| 170      |                       |        |        |        |        |        |        |        | 165-170  |             |              |            |
| 175      |                       |        |        |        |        |        |        |        | 170-175  |             |              |            |
| 180      |                       |        |        |        |        |        |        |        | 175-180  |             |              |            |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 744.4 lm

%lum = 98.8%

%lamp = 98.8%

Conical surface Flux(120deg): 752.67 lm

%lum = 99.9%

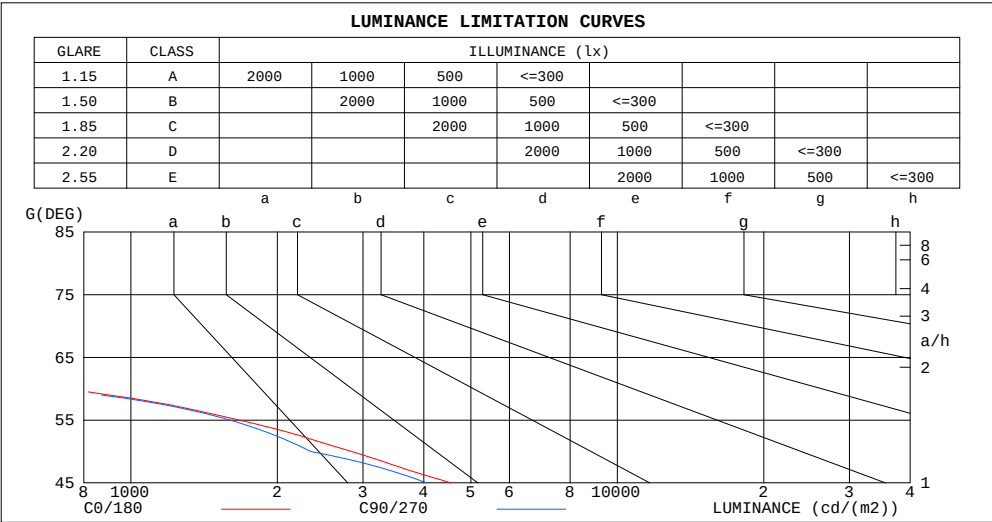
%lamp = 99.9%

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Judy  
 Test Date:2025-02-21

$V(B)$  Range:-90 - 90DEG  
 $V(B)$  Interval: 5.0DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.880m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 54     | 0       |
| 80                | 27     | 0       |
| 75                | 18     | 5       |
| 70                | 14     | 7       |
| 65                | 18     | 393     |
| 60                | 727    | 661     |
| 55                | 1668   | 1599    |
| 50                | 2839   | 2340    |
| 45                | 4547   | 4052    |

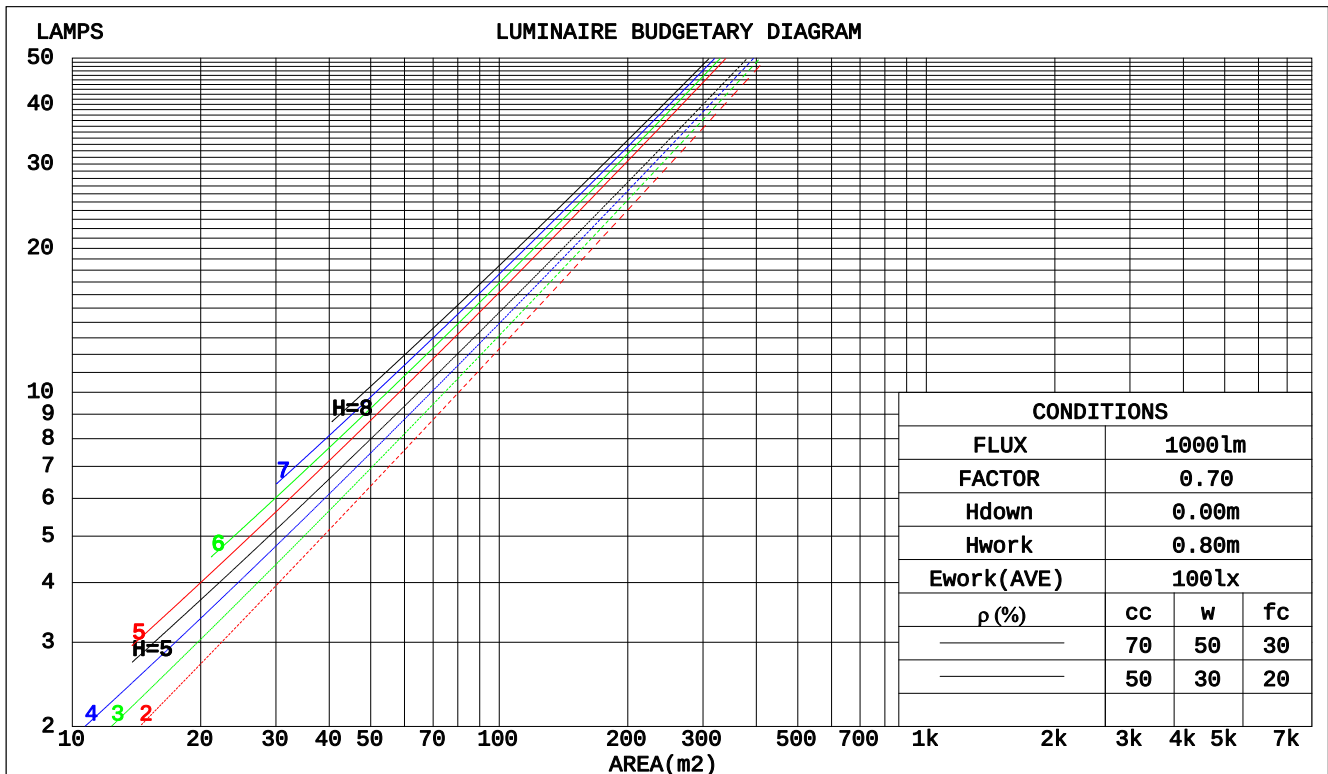
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | 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         | 1.19                  | 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 | 1.00 |
| 1.0         | 1.12                  | 1.10 | 1.08 | 1.10 | 1.08 | 1.07 | 1.06                            | 1.05 | 1.03 | 1.03 | 1.01 | 1.00 | .99  | .98  | .98  | .96  |
| 2.0         | 1.06                  | 1.03 | 1.00 | 1.05 | 1.02 | .99  | 1.02                            | .99  | .97  | .99  | .97  | .95  | .96  | .95  | .93  | .92  |
| 3.0         | 1.01                  | .97  | .94  | .90  | .96  | .93  | .97                             | .94  | .92  | .95  | .93  | .91  | .93  | .91  | .89  | .88  |
| 4.0         | .97                   | .92  | .89  | .96  | .92  | .88  | .94                             | .90  | .87  | .92  | .89  | .86  | .90  | .88  | .86  | .84  |
| 5.0         | .92                   | .88  | .85  | .92  | .87  | .84  | .90                             | .86  | .83  | .88  | .85  | .83  | .87  | .84  | .82  | .81  |
| 6.0         | .89                   | .84  | .81  | .88  | .84  | .80  | .87                             | .83  | .80  | .85  | .82  | .79  | .84  | .81  | .79  | .78  |
| 7.0         | .85                   | .81  | .77  | .85  | .80  | .77  | .83                             | .80  | .77  | .82  | .79  | .76  | .81  | .78  | .76  | .75  |
| 8.0         | .82                   | .77  | .74  | .81  | .77  | .74  | .81                             | .77  | .74  | .80  | .76  | .73  | .79  | .76  | .73  | .72  |
| 9.0         | .79                   | .74  | .71  | .79  | .74  | .71  | .78                             | .74  | .71  | .77  | .73  | .71  | .76  | .73  | .71  | .70  |
| 10.0        | .76                   | .72  | .69  | .76  | .72  | .69  | .75                             | .71  | .69  | .75  | .71  | .68  | .74  | .71  | .68  | .67  |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                |  |  |  |                      |  |  |                          |  |
|--------------------------------------------------------------------------------|--|--|--|----------------------|--|--|--------------------------|--|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.701x5 lm |  |  |  |                      |  |  |                          |  |
| NAME: LED Grille Light                                                         |  |  |  | TYPE:recessed        |  |  | WEIGHT:                  |  |
| SPEC.:12.5W                                                                    |  |  |  | DIM.: L146*W45*H43mm |  |  | SERIAL No.:GEN2026109.01 |  |
| MFR.: KOE Lighting Ltd.                                                        |  |  |  | SUR.:W25XL26X5       |  |  | 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         | .147                  | .084 | .027 | .140 | .080 | .025 | .128                            | .073 | .023 | .117 | .067 | .022 | .106 | .061 | .020 |   |
| 2.0         | .138                  | .076 | .023 | .132 | .073 | .022 | .122                            | .068 | .021 | .113 | .063 | .020 | .104 | .059 | .019 |   |
| 3.0         | .130                  | .069 | .021 | .125 | .067 | .020 | .116                            | .063 | .019 | .108 | .059 | .018 | .101 | .056 | .017 |   |
| 4.0         | .122                  | .064 | .019 | .118 | .062 | .018 | .111                            | .059 | .018 | .104 | .056 | .017 | .098 | .053 | .016 |   |
| 5.0         | .116                  | .059 | .017 | .112 | .058 | .017 | .106                            | .055 | .016 | .100 | .053 | .016 | .095 | .051 | .015 |   |
| 6.0         | .110                  | .055 | .016 | .107 | .054 | .016 | .102                            | .052 | .015 | .097 | .050 | .015 | .092 | .048 | .014 |   |
| 7.0         | .105                  | .052 | .015 | .102 | .051 | .015 | .098                            | .049 | .014 | .093 | .048 | .014 | .089 | .046 | .014 |   |
| 8.0         | .100                  | .049 | .014 | .098 | .048 | .014 | .094                            | .047 | .013 | .090 | .046 | .013 | .086 | .044 | .013 |   |
| 9.0         | .096                  | .046 | .013 | .094 | .046 | .013 | .090                            | .045 | .013 | .087 | .044 | .012 | .083 | .042 | .012 |   |
| 10.0        | .092                  | .044 | .012 | .090 | .044 | .012 | .087                            | .043 | .012 | .084 | .042 | .012 | .081 | .041 | .012 |   |

| $\rho_{cc}$ | 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         | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0         | .169                  | .158 | .147 | .145 | .135 | .127 | .099                                       | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .016 |   |
| 2.0         | .152                  | .133 | .117 | .130 | .114 | .101 | .089                                       | .079 | .070 | .051 | .046 | .041 | .016 | .015 | .013 |   |
| 3.0         | .137                  | .113 | .094 | .118 | .098 | .082 | .081                                       | .068 | .057 | .047 | .040 | .034 | .015 | .013 | .011 |   |
| 4.0         | .126                  | .098 | .077 | .108 | .085 | .067 | .074                                       | .059 | .047 | .043 | .035 | .028 | .014 | .011 | .009 |   |
| 5.0         | .116                  | .086 | .064 | .099 | .074 | .056 | .068                                       | .052 | .039 | .040 | .031 | .023 | .013 | .010 | .008 |   |
| 6.0         | .107                  | .076 | .054 | .092 | .066 | .047 | .064                                       | .046 | .033 | .037 | .027 | .020 | .012 | .009 | .007 |   |
| 7.0         | .100                  | .068 | .046 | .086 | .059 | .040 | .059                                       | .041 | .028 | .035 | .024 | .017 | .011 | .008 | .006 |   |
| 8.0         | .094                  | .062 | .040 | .081 | .053 | .035 | .056                                       | .038 | .024 | .032 | .022 | .015 | .011 | .007 | .005 |   |
| 9.0         | .088                  | .056 | .034 | .076 | .049 | .030 | .053                                       | .034 | .021 | .031 | .020 | .013 | .010 | .007 | .004 |   |
| 10.0        | .084                  | .051 | .030 | .072 | .045 | .026 | .050                                       | .031 | .019 | .029 | .019 | .011 | .009 | .006 | .004 |   |

H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Judy  
 Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.880m [K=1.0000]  
 Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                |               |                  |     |     |                      |               |                |                          |     |     |     |
|--------------------------------------------------------------------------------|---------------|------------------|-----|-----|----------------------|---------------|----------------|--------------------------|-----|-----|-----|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |               |                  |     |     |                      |               |                |                          |     |     |     |
| NAME: LED Grille Light                                                         |               |                  |     |     | TYPE:recessed        |               |                | WEIGHT:                  |     |     |     |
| SPEC.:12.5W                                                                    |               |                  |     |     | DIM.: L146*W45*H43mm |               |                | SERIAL No.:GEN2026109.01 |     |     |     |
| MFR.: KOE Lighting Ltd.                                                        |               |                  |     |     | SUR.:W25XL26X5       |               |                | 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                                                                  |               | 9.0              | 9.7 | 9.2 | 9.8                  | 10.0          | 7.6            | 8.3                      | 7.8 | 8.5 | 8.6 |
|                                                                                | 3H            | 8.8              | 9.5 | 9.0 | 9.7                  | 9.9           | 7.4            | 8.1                      | 7.7 | 8.3 | 8.5 |
|                                                                                | 4H            | 8.7              | 9.4 | 9.0 | 9.6                  | 9.8           | 7.4            | 8.0                      | 7.6 | 8.2 | 8.4 |
|                                                                                | 6H            | 8.6              | 9.2 | 8.9 | 9.5                  | 9.7           | 7.3            | 7.9                      | 7.6 | 8.1 | 8.4 |
|                                                                                | 8H            | 8.6              | 9.2 | 8.9 | 9.4                  | 9.7           | 7.2            | 7.8                      | 7.5 | 8.1 | 8.3 |
|                                                                                | 12H           | 8.5              | 9.1 | 8.9 | 9.4                  | 9.6           | 7.2            | 7.8                      | 7.5 | 8.0 | 8.3 |
| 4H                                                                             | 2H            | 8.8              | 9.4 | 9.1 | 9.7                  | 9.9           | 7.5            | 8.1                      | 7.7 | 8.3 | 8.5 |
|                                                                                | 3H            | 8.6              | 9.2 | 8.9 | 9.4                  | 9.7           | 7.3            | 7.9                      | 7.6 | 8.1 | 8.4 |
|                                                                                | 4H            | 8.5              | 9.0 | 8.9 | 9.3                  | 9.6           | 7.2            | 7.7                      | 7.6 | 8.0 | 8.3 |
|                                                                                | 6H            | 8.4              | 8.9 | 8.8 | 9.2                  | 9.5           | 7.1            | 7.6                      | 7.5 | 7.9 | 8.2 |
|                                                                                | 8H            | 8.4              | 8.8 | 8.8 | 9.1                  | 9.5           | 7.1            | 7.5                      | 7.4 | 7.8 | 8.2 |
|                                                                                | 12H           | 8.3              | 8.7 | 8.7 | 9.1                  | 9.5           | 7.0            | 7.4                      | 7.4 | 7.8 | 8.1 |
| 8H                                                                             | 4H            | 8.4              | 8.8 | 8.8 | 9.1                  | 9.5           | 7.1            | 7.5                      | 7.4 | 7.8 | 8.2 |
|                                                                                | 6H            | 8.3              | 8.6 | 8.7 | 9.0                  | 9.4           | 6.9            | 7.3                      | 7.4 | 7.7 | 8.1 |
|                                                                                | 8H            | 8.2              | 8.5 | 8.7 | 8.9                  | 9.4           | 6.9            | 7.2                      | 7.3 | 7.6 | 8.0 |
|                                                                                | 12H           | 8.1              | 8.4 | 8.6 | 8.8                  | 9.3           | 6.8            | 7.1                      | 7.3 | 7.5 | 8.0 |
| 12H                                                                            | 4H            | 8.3              | 8.7 | 8.7 | 9.1                  | 9.5           | 7.0            | 7.4                      | 7.4 | 7.8 | 8.1 |
|                                                                                | 6H            | 8.2              | 8.5 | 8.7 | 8.9                  | 9.4           | 6.9            | 7.2                      | 7.3 | 7.6 | 8.0 |
|                                                                                | 8H            | 8.1              | 8.4 | 8.6 | 8.8                  | 9.3           | 6.8            | 7.1                      | 7.3 | 7.5 | 8.0 |
| Variations with the observer position at spacings:                             |               |                  |     |     |                      |               |                |                          |     |     |     |
| S = 1.0H                                                                       | + 2.8 / - 6.9 |                  |     |     |                      | + 2.8 / - 6.4 |                |                          |     |     |     |
| 1.5H                                                                           | + 4.1 / - 3.7 |                  |     |     |                      | + 4.1 / - 4.1 |                |                          |     |     |     |
| 2.0H                                                                           | + 4.2 / - 7.6 |                  |     |     |                      | + 3.9 / - 7.4 |                |                          |     |     |     |

CIE Pub.117, 753.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |

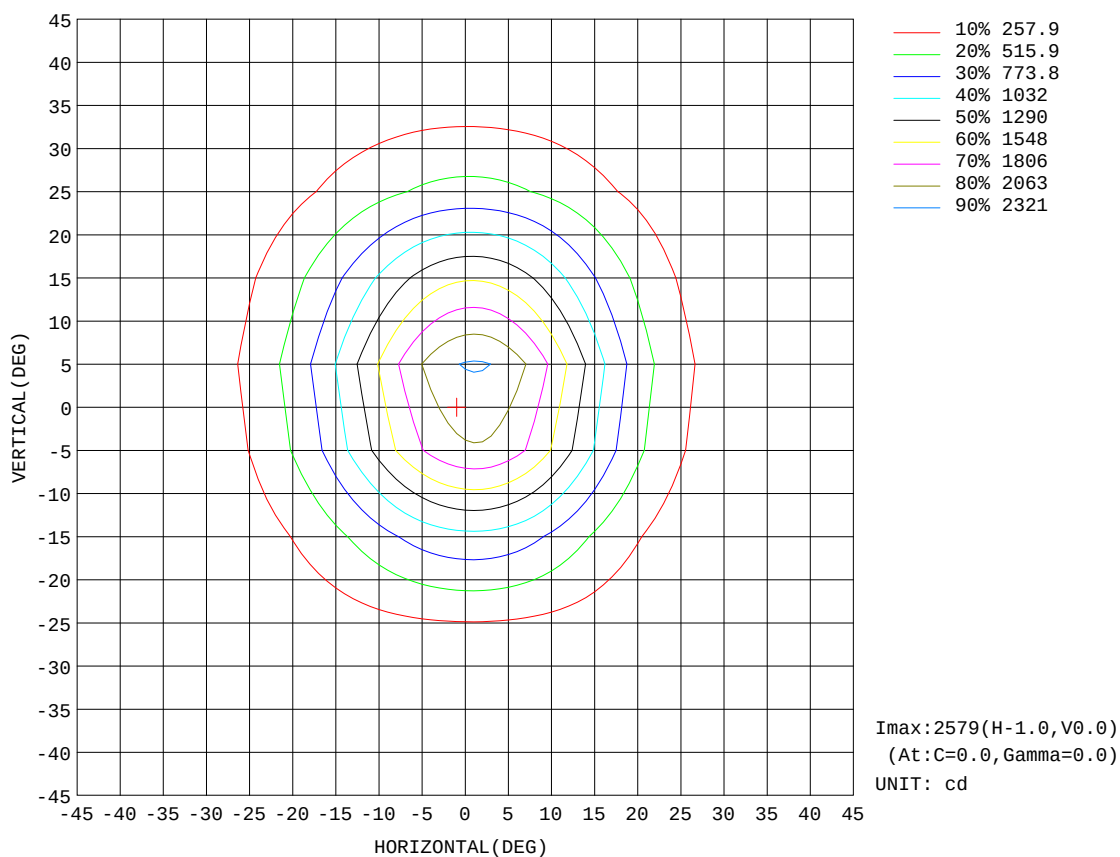
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 90                                                  | 84  | 81        | 90  | 84  | 81  | 89  | 84            | 81  | 77     |
| 0.80                             | 97                                                  | 92  | 89        | 97  | 92  | 88  | 95  | 91            | 88  | 85     |
| 1.00                             | 101                                                 | 96  | 93        | 100 | 96  | 92  | 99  | 95            | 92  | 88     |
| 1.25                             | 105                                                 | 100 | 97        | 104 | 100 | 97  | 102 | 98            | 96  | 92     |
| 1.50                             | 107                                                 | 103 | 100       | 106 | 102 | 99  | 104 | 101           | 98  | 94     |
| 2.00                             | 110                                                 | 106 | 103       | 108 | 105 | 102 | 106 | 103           | 101 | 96     |
| 2.50                             | 111                                                 | 108 | 105       | 110 | 106 | 104 | 106 | 104           | 102 | 96     |
| 3.00                             | 112                                                 | 109 | 107       | 111 | 108 | 106 | 107 | 105           | 104 | 97     |
| 4.00                             | 114                                                 | 112 | 110       | 112 | 110 | 108 | 109 | 107           | 106 | 99     |
| 5.00                             | 116                                                 | 114 | 112       | 113 | 112 | 110 | 110 | 108           | 107 | 100    |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Judy  
 Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.880m [K=1.0000]  
 Remarks:

### ISOCANDELA DIAGRAM

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |

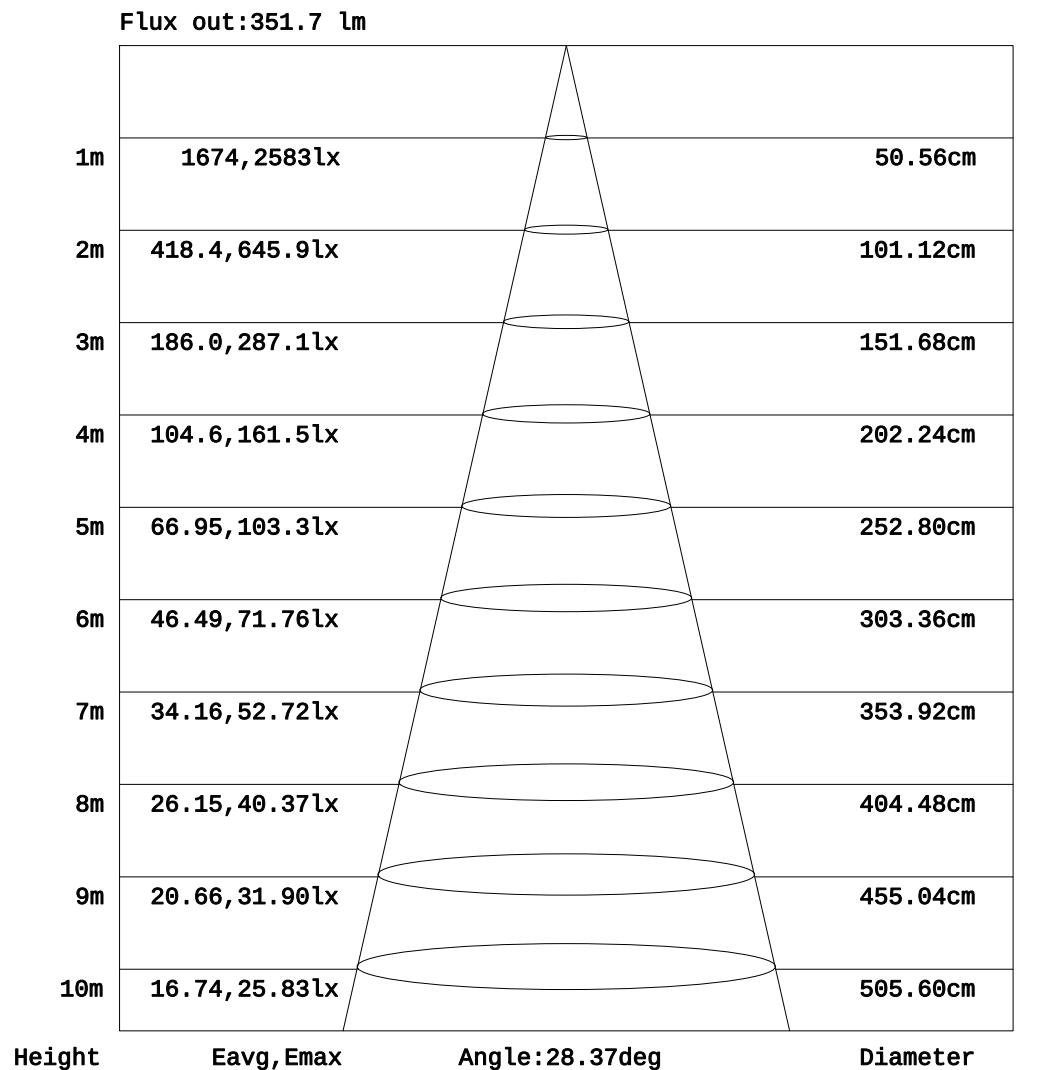


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### AAI Figure

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |



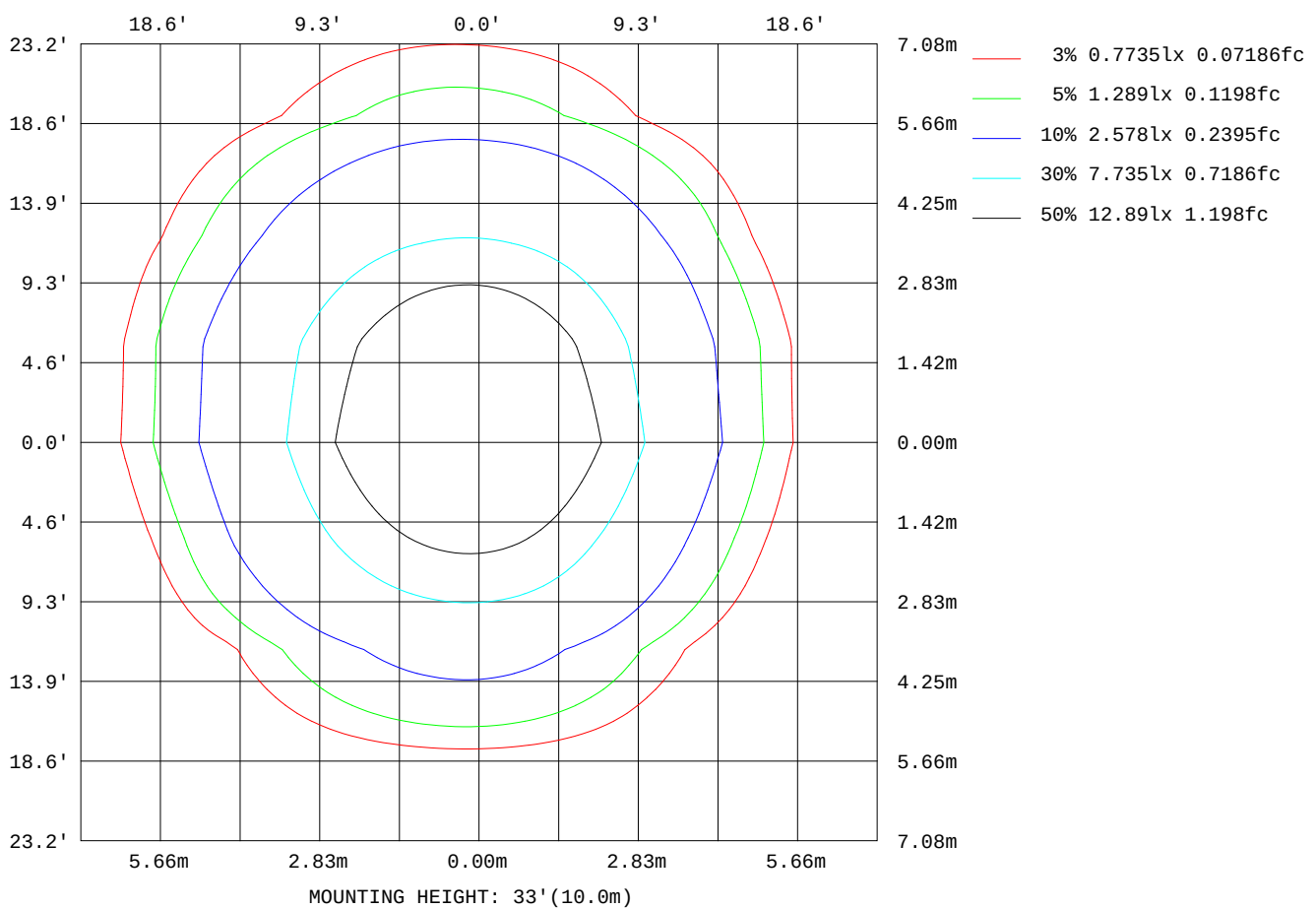
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

|                                                                                 |                      |                          |
|---------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx 5 lm |                      |                          |
| NAME: LED Grille Light                                                          | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                     | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                         | SUR.:W25XL26X5       | Shielding Angle:         |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |

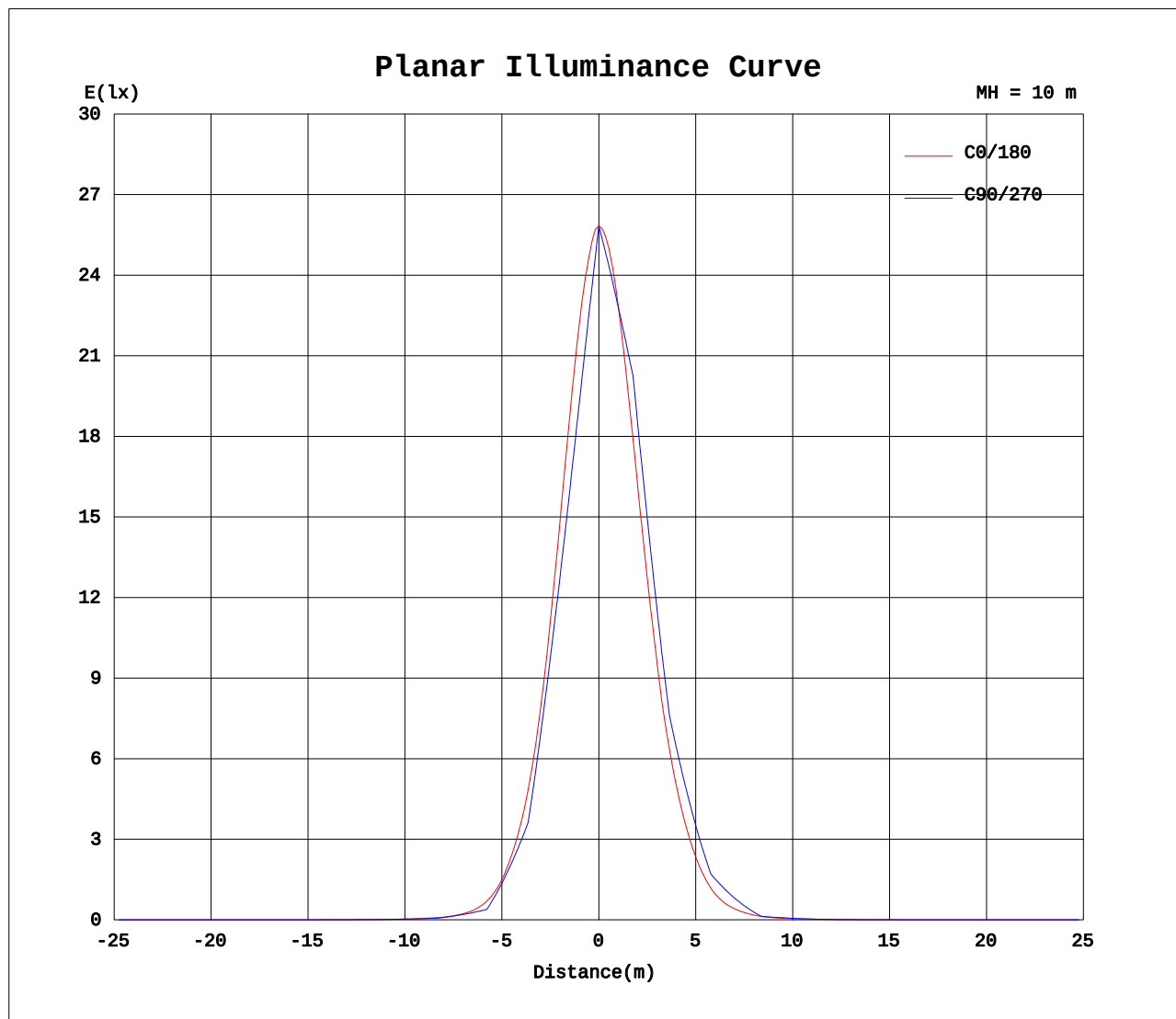
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 61    |
| L_0~180(75)av  | 23    |
| L_0~180(85)av  | 50    |
| L_90~270(65)av | 512   |
| L_90~270(75)av | 2     |
| L_90~270(85)av | 0     |
| L_45(65)av     | 823   |
| L_45(75)av     | 19    |
| L_45(85)av     | 0     |

Standard: GB/T 29293-2012

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.701x5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |

UNIT: cd

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators: Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

|                                                                                |                      |                          |
|--------------------------------------------------------------------------------|----------------------|--------------------------|
| Test:U:230.0V I:0.0830A P:11.50W PF:0.6030 Freq:50.00Hz Lamp Flux:150.70lx5 lm |                      |                          |
| NAME: LED Grille Light                                                         | TYPE:recessed        | WEIGHT:                  |
| SPEC.:12.5W                                                                    | DIM.: L146*W45*H43mm | SERIAL No.:GEN2026109.01 |
| MFR.: KOE Lighting Ltd.                                                        | SUR.:W25XL26X5       | Shielding Angle:         |

UNIT: cd

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

| G/C  | 0.0    | 5.0    | 10.0   | 15.0   | 20.0   | 25.0   | 30.0   | 35.0   | 40.0   | 45.0   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2582   | 2481   | 2461   | 2443   | 2426   | 2411   | 2397   | 2385   | 2373   | 2361   |
| 5.0  | 2324   | 2289   | 2256   | 2227   | 2201   | 2178   | 2157   | 2140   | 2124   | 2109   |
| 7.5  | 2061   | 2020   | 1985   | 1955   | 1932   | 1911   | 1894   | 1881   | 1869   | 1849   |
| 10.0 | 1750   | 1709   | 1676   | 1652   | 1635   | 1624   | 1615   | 1584   | 1558   | 1538   |
| 12.5 | 1418   | 1381   | 1356   | 1341   | 1334   | 1320   | 1285   | 1257   | 1234   | 1218   |
| 15.0 | 1095   | 1067   | 1052   | 1048   | 1043   | 1004   | 971.6  | 945.2  | 924.3  | 932.1  |
| 17.5 | 815.4  | 794.8  | 786.5  | 789.1  | 760.7  | 726.2  | 696.7  | 679.1  | 695.9  | 713.3  |
| 20.0 | 586.0  | 572.8  | 571.1  | 568.5  | 534.1  | 503.4  | 482.9  | 496.6  | 513.4  | 531.4  |
| 22.5 | 413.1  | 404.0  | 404.4  | 389.8  | 360.5  | 334.2  | 343.0  | 355.5  | 369.2  | 360.0  |
| 25.0 | 278.9  | 274.3  | 278.3  | 256.7  | 232.6  | 227.1  | 237.4  | 248.7  | 236.2  | 218.0  |
| 27.5 | 176.2  | 175.8  | 180.1  | 161.0  | 141.9  | 150.3  | 160.4  | 153.6  | 136.8  | 116.7  |
| 30.0 | 108.1  | 110.0  | 111.3  | 97.54  | 92.22  | 98.25  | 99.47  | 87.73  | 73.42  | 83.47  |
| 32.5 | 66.38  | 68.42  | 67.29  | 58.60  | 59.88  | 65.32  | 58.80  | 46.81  | 52.55  | 59.50  |
| 35.0 | 42.46  | 44.06  | 42.57  | 37.86  | 40.51  | 40.78  | 34.85  | 34.55  | 38.34  | 39.88  |
| 37.5 | 27.54  | 29.69  | 28.38  | 26.87  | 28.96  | 26.84  | 24.43  | 26.31  | 27.30  | 25.45  |
| 40.0 | 18.93  | 20.31  | 19.20  | 19.34  | 20.50  | 18.52  | 19.30  | 20.24  | 19.09  | 17.35  |
| 42.5 | 13.84  | 14.92  | 13.85  | 14.46  | 14.48  | 13.97  | 15.44  | 15.06  | 14.03  | 14.45  |
| 45.0 | 10.45  | 11.28  | 10.24  | 11.11  | 10.51  | 11.09  | 11.71  | 11.11  | 11.67  | 11.93  |
| 47.5 | 7.845  | 8.458  | 7.847  | 8.423  | 7.889  | 8.884  | 8.753  | 9.002  | 9.614  | 9.286  |
| 50.0 | 5.931  | 6.333  | 6.001  | 6.217  | 6.250  | 6.717  | 6.678  | 7.324  | 7.350  | 6.936  |
| 52.5 | 4.410  | 4.672  | 4.587  | 4.531  | 4.936  | 4.964  | 5.345  | 5.621  | 5.356  | 5.713  |
| 55.0 | 3.110  | 3.352  | 3.439  | 3.215  | 3.721  | 3.700  | 4.175  | 4.040  | 4.324  | 4.600  |
| 57.5 | 2.075  | 2.240  | 2.436  | 2.338  | 2.526  | 2.810  | 2.896  | 3.061  | 3.414  | 3.370  |
| 60.0 | 1.181  | 1.319  | 1.438  | 1.577  | 1.562  | 1.892  | 1.903  | 2.305  | 2.350  | 2.338  |
| 62.5 | 0.4096 | 0.4892 | 0.5425 | 0.7727 | 0.8896 | 0.9263 | 1.250  | 1.376  | 1.476  | 1.641  |
| 65.0 | 0.0245 | 0.0742 | 0.0333 | 0.1346 | 0.3188 | 0.3503 | 0.5709 | 0.6391 | 0.9182 | 0.9218 |
| 67.5 | 0.0123 | 0.0247 | 0.0065 | 0.0227 | 0.0148 | 0.1265 | 0.0560 | 0.3477 | 0.3876 | 0.1976 |
| 70.0 | 0.0152 | 0.0177 | 0.0125 | 0.0111 | 0.0061 | 0.0260 | 0.0253 | 0.1089 | 0.0004 | 0.0747 |
| 72.5 | 0.0152 | 0.0121 | 0.0201 | 0.0014 | 0.0139 | 0.0148 | 0.0065 | 0.0009 | 0.0029 | 0.0420 |
| 75.0 | 0.0152 | 0.0048 | 0.0152 | 0.0076 | 0.0153 | 0.0049 | 0.0014 | 0.0038 | 0.0056 | 0.0118 |
| 77.5 | 0.0152 | 0.0028 | 0.0037 | 0.0179 | 0.0056 | 0.0018 | 0.0046 | 0.0067 | 0.0068 | 0.0056 |
| 80.0 | 0.0152 | 0.0115 | 0.0079 | 0.0081 | 0.0021 | 0.0056 | 0.0071 | 0.0054 | 0.0040 | 0.0030 |
| 82.5 | 0.0152 | 0.0093 | 0.0104 | 0.0023 | 0.0068 | 0.0055 | 0.0036 | 0.0022 | 0.0012 | 0.0004 |
| 85.0 | 0.0152 | 0.0047 | 0.0025 | 0.0066 | 0.0033 | 0.0013 | 0      | 0      | 0      | 0      |
| 87.5 | 0.0152 | 0      | 0.0031 | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 90.0 | 0.0152 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

| G/C  | 50.0   | 55.0   | 60.0   | 65.0   | 70.0   | 75.0   | 80.0   | 85.0   | 90.0   | 95.0   |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2350   | 2342   | 2334   | 2329   | 2322   | 2316   | 2312   | 2309   | 2309   | 2307   |
| 5.0  | 2098   | 2088   | 2078   | 2071   | 2062   | 2053   | 2046   | 2038   | 2034   | 2029   |
| 7.5  | 1829   | 1811   | 1798   | 1789   | 1780   | 1775   | 1769   | 1765   | 1764   | 1761   |
| 10.0 | 1521   | 1508   | 1500   | 1492   | 1488   | 1486   | 1486   | 1488   | 1493   | 1498   |
| 12.5 | 1206   | 1206   | 1214   | 1220   | 1224   | 1226   | 1227   | 1228   | 1230   | 1232   |
| 15.0 | 947.5  | 961.0  | 971.0  | 977.0  | 979.1  | 977.1  | 973.1  | 969.4  | 966.6  | 963.9  |
| 17.5 | 729.9  | 743.7  | 746.4  | 737.1  | 727.1  | 716.6  | 708.8  | 703.4  | 702.7  | 703.6  |
| 20.0 | 534.7  | 523.8  | 509.6  | 491.8  | 473.0  | 456.3  | 443.4  | 437.3  | 438.7  | 445.4  |
| 22.5 | 345.2  | 324.9  | 297.4  | 300.4  | 314.7  | 326.5  | 335.0  | 340.9  | 344.4  | 345.2  |
| 25.0 | 191.7  | 197.1  | 215.0  | 228.5  | 238.4  | 245.1  | 248.6  | 250.1  | 250.1  | 249.3  |
| 27.5 | 130.8  | 144.3  | 157.3  | 164.1  | 164.1  | 161.9  | 158.7  | 156.2  | 155.4  | 156.2  |
| 30.0 | 93.83  | 101.5  | 102.3  | 98.26  | 90.13  | 79.72  | 69.78  | 62.74  | 60.60  | 63.80  |
| 32.5 | 63.14  | 61.15  | 54.00  | 40.90  | 43.47  | 45.62  | 47.25  | 48.34  | 48.91  | 48.91  |
| 35.0 | 37.72  | 30.31  | 30.97  | 33.02  | 34.73  | 35.97  | 36.74  | 37.13  | 37.21  | 37.07  |
| 37.5 | 22.01  | 23.45  | 24.82  | 25.97  | 26.29  | 26.16  | 25.83  | 25.55  | 25.47  | 25.59  |
| 40.0 | 18.07  | 18.89  | 19.09  | 18.66  | 17.72  | 16.39  | 14.99  | 14.00  | 13.72  | 14.18  |
| 42.5 | 14.76  | 14.40  | 13.56  | 12.02  | 11.48  | 11.45  | 11.41  | 11.45  | 11.52  | 11.55  |
| 45.0 | 11.41  | 10.44  | 9.828  | 9.719  | 9.596  | 9.464  | 9.341  | 9.317  | 9.312  | 9.312  |
| 47.5 | 8.523  | 8.388  | 8.235  | 8.011  | 7.729  | 7.451  | 7.223  | 7.132  | 7.101  | 7.125  |
| 50.0 | 7.101  | 6.980  | 6.671  | 6.247  | 5.819  | 5.422  | 5.106  | 4.946  | 4.889  | 4.944  |
| 52.5 | 5.827  | 5.512  | 5.082  | 4.524  | 4.241  | 4.084  | 3.978  | 3.950  | 3.935  | 3.939  |
| 55.0 | 4.422  | 4.045  | 3.808  | 3.570  | 3.351  | 3.178  | 3.058  | 3.009  | 2.981  | 2.987  |
| 57.5 | 3.139  | 3.087  | 2.945  | 2.700  | 2.458  | 2.264  | 2.130  | 2.055  | 2.028  | 2.047  |
| 60.0 | 2.363  | 2.273  | 2.066  | 1.805  | 1.556  | 1.345  | 1.202  | 1.103  | 1.075  | 1.108  |
| 62.5 | 1.595  | 1.406  | 1.165  | 0.9393 | 0.9085 | 0.8608 | 0.8361 | 0.8114 | 0.8076 | 0.8162 |
| 65.0 | 0.7823 | 0.6313 | 0.6860 | 0.6873 | 0.6485 | 0.5996 | 0.5702 | 0.5463 | 0.5403 | 0.5492 |
| 67.5 | 0.3414 | 0.4409 | 0.4626 | 0.4383 | 0.3875 | 0.3371 | 0.3040 | 0.2807 | 0.2739 | 0.2822 |
| 70.0 | 0.2206 | 0.2574 | 0.2336 | 0.1835 | 0.1251 | 0.0739 | 0.0375 | 0.0150 | 0.0076 | 0.0151 |
| 72.5 | 0.0938 | 0.0713 | 0.0080 | 0.0070 | 0.0065 | 0.0061 | 0.0059 | 0.0057 | 0.0057 | 0.0057 |
| 75.0 | 0.0070 | 0.0062 | 0.0055 | 0.0049 | 0.0045 | 0.0042 | 0.0040 | 0.0038 | 0.0038 | 0.0038 |
| 77.5 | 0.0047 | 0.0039 | 0.0033 | 0.0028 | 0.0025 | 0.0022 | 0.0020 | 0.0019 | 0.0019 | 0.0019 |
| 80.0 | 0.0022 | 0.0016 | 0.0011 | 0.0008 | 0.0005 | 0.0003 | 0.0001 | 0.0000 | 0      | 0.0000 |
| 82.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 85.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

H(B) Range:-90 - 90DEG  
 H(B) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Judy  
 Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.880m [K=1.0000]  
 Remarks:

## Photometric Data Table [cd]

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 87.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| G/C  | 100.0  | 105.0  | 110.0  | 115.0  | 120.0  | 125.0  | 130.0  | 135.0  | 140.0  | 145.0  |
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2308   | 2310   | 2315   | 2321   | 2327   | 2335   | 2345   | 2358   | 2372   | 2387   |
| 5.0  | 2028   | 2028   | 2031   | 2036   | 2043   | 2054   | 2067   | 2082   | 2103   | 2126   |
| 7.5  | 1762   | 1763   | 1764   | 1767   | 1770   | 1774   | 1779   | 1785   | 1797   | 1823   |
| 10.0 | 1503   | 1508   | 1513   | 1517   | 1521   | 1522   | 1524   | 1526   | 1528   | 1532   |
| 12.5 | 1235   | 1240   | 1247   | 1257   | 1269   | 1284   | 1291   | 1286   | 1282   | 1278   |
| 15.0 | 964.1  | 967.8  | 974.7  | 983.9  | 995.6  | 1010   | 1027   | 1046   | 1060   | 1048   |
| 17.5 | 708.5  | 715.0  | 723.3  | 730.4  | 736.6  | 750.4  | 769.7  | 790.4  | 812.6  | 836.8  |
| 20.0 | 457.8  | 475.1  | 493.7  | 511.4  | 527.0  | 538.9  | 546.6  | 561.7  | 587.4  | 613.5  |
| 22.5 | 344.6  | 343.4  | 340.7  | 336.5  | 340.9  | 362.9  | 378.5  | 389.0  | 397.1  | 426.3  |
| 25.0 | 249.0  | 249.2  | 248.8  | 247.8  | 244.8  | 239.1  | 239.3  | 256.6  | 268.3  | 276.1  |
| 27.5 | 159.0  | 162.6  | 165.6  | 166.5  | 167.2  | 166.3  | 162.3  | 155.8  | 169.4  | 179.5  |
| 30.0 | 71.67  | 82.22  | 93.17  | 101.9  | 106.5  | 106.3  | 106.9  | 105.0  | 100.8  | 112.6  |
| 32.5 | 48.51  | 47.80  | 46.77  | 45.51  | 58.91  | 65.99  | 67.48  | 67.84  | 69.56  | 68.15  |
| 35.0 | 36.85  | 36.59  | 36.23  | 35.69  | 34.92  | 35.35  | 42.32  | 44.99  | 45.65  | 46.84  |
| 37.5 | 25.90  | 26.30  | 26.56  | 26.61  | 26.77  | 26.72  | 26.47  | 29.91  | 31.38  | 32.52  |
| 40.0 | 15.25  | 16.73  | 18.16  | 19.25  | 19.91  | 20.32  | 20.75  | 20.86  | 22.60  | 23.30  |
| 42.5 | 11.60  | 11.77  | 11.95  | 12.68  | 14.37  | 15.40  | 15.87  | 16.51  | 16.90  | 17.74  |
| 45.0 | 9.402  | 9.596  | 9.856  | 10.17  | 10.50  | 11.34  | 12.40  | 12.86  | 13.39  | 13.60  |
| 47.5 | 7.254  | 7.500  | 7.819  | 8.189  | 8.615  | 9.028  | 9.480  | 10.21  | 10.19  | 10.40  |
| 50.0 | 5.127  | 5.460  | 5.892  | 6.366  | 6.840  | 7.274  | 7.695  | 7.922  | 7.974  | 7.637  |
| 52.5 | 3.987  | 4.109  | 4.296  | 4.611  | 5.218  | 5.691  | 5.965  | 6.174  | 6.129  | 5.778  |
| 55.0 | 3.053  | 3.190  | 3.390  | 3.630  | 3.913  | 4.203  | 4.538  | 4.565  | 4.566  | 4.425  |
| 57.5 | 2.131  | 2.282  | 2.491  | 2.731  | 2.994  | 3.165  | 3.256  | 3.376  | 3.220  | 3.198  |
| 60.0 | 1.212  | 1.300  | 1.607  | 1.859  | 2.097  | 2.247  | 2.361  | 2.377  | 2.301  | 2.077  |
| 62.5 | 0.8451 | 0.8942 | 0.9622 | 1.018  | 1.244  | 1.436  | 1.533  | 1.555  | 1.510  | 1.323  |
| 65.0 | 0.5763 | 0.6223 | 0.6839 | 0.7363 | 0.7590 | 0.7267 | 0.8325 | 0.8547 | 0.8318 | 0.6977 |
| 67.5 | 0.3072 | 0.3497 | 0.4064 | 0.4593 | 0.4891 | 0.4831 | 0.4152 | 0.2754 | 0.3453 | 0.2619 |
| 70.0 | 0.0378 | 0.0765 | 0.1308 | 0.1920 | 0.2422 | 0.2630 | 0.2249 | 0.1075 | 0.0358 | 0.0697 |
| 72.5 | 0.0059 | 0.0061 | 0.0065 | 0.0070 | 0.0080 | 0.0727 | 0.0900 | 0.0401 | 0.0198 | 0.0161 |
| 75.0 | 0.0040 | 0.0042 | 0.0045 | 0.0049 | 0.0055 | 0.0062 | 0.0070 | 0.0123 | 0.0126 | 0.0114 |
| 77.5 | 0.0020 | 0.0022 | 0.0025 | 0.0028 | 0.0033 | 0.0039 | 0.0047 | 0.0056 | 0.0068 | 0.0084 |
| 80.0 | 0.0001 | 0.0003 | 0.0005 | 0.0008 | 0.0011 | 0.0016 | 0.0022 | 0.0030 | 0.0040 | 0.0054 |
| 82.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.0004 | 0.0012 | 0.0022 |
| 85.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 87.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| G/C  | 150.0  | 155.0  | 160.0  | 165.0  | 170.0  | 175.0  | 180.0  | 185.0  | 190.0  | 195.0  |
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2403   | 2420   | 2440   | 2460   | 2482   | 2505   | 2530   | 2519   | 2509   | 2500   |
| 5.0  | 2151   | 2180   | 2214   | 2251   | 2291   | 2335   | 2381   | 2359   | 2339   | 2323   |
| 7.5  | 1853   | 1888   | 1930   | 1976   | 2028   | 2086   | 2150   | 2118   | 2091   | 2071   |
| 10.0 | 1538   | 1575   | 1619   | 1671   | 1731   | 1798   | 1874   | 1834   | 1802   | 1779   |
| 12.5 | 1275   | 1277   | 1308   | 1361   | 1422   | 1493   | 1575   | 1530   | 1496   | 1473   |
| 15.0 | 1037   | 1030   | 1029   | 1072   | 1132   | 1202   | 1283   | 1238   | 1205   | 1183   |
| 17.5 | 828.0  | 812.9  | 801.8  | 807.8  | 863.1  | 927.4  | 1003   | 962.2  | 933.4  | 915.4  |
| 20.0 | 640.4  | 629.0  | 613.7  | 605.2  | 642.8  | 699.5  | 767.3  | 732.4  | 709.5  | 708.8  |
| 22.5 | 453.9  | 479.5  | 459.7  | 446.8  | 462.4  | 513.4  | 574.4  | 543.8  | 524.3  | 545.5  |
| 25.0 | 303.9  | 328.5  | 331.9  | 316.2  | 315.3  | 359.3  | 412.8  | 386.9  | 371.5  | 407.6  |
| 27.5 | 189.8  | 210.0  | 224.9  | 210.7  | 203.7  | 239.0  | 282.8  | 261.0  | 250.9  | 293.5  |
| 30.0 | 116.0  | 124.5  | 137.1  | 136.9  | 131.7  | 151.6  | 183.5  | 166.2  | 164.7  | 199.5  |
| 32.5 | 73.41  | 74.15  | 84.26  | 88.95  | 84.73  | 95.58  | 117.2  | 105.3  | 107.7  | 132.4  |
| 35.0 | 48.05  | 49.23  | 52.86  | 58.73  | 56.71  | 61.62  | 76.16  | 67.63  | 71.98  | 87.04  |
| 37.5 | 33.74  | 34.51  | 34.44  | 38.79  | 37.94  | 38.88  | 48.76  | 41.85  | 46.97  | 54.12  |
| 40.0 | 24.53  | 25.32  | 23.91  | 25.43  | 25.29  | 24.23  | 29.59  | 25.57  | 29.52  | 32.11  |
| 42.5 | 17.61  | 18.50  | 17.37  | 16.97  | 17.75  | 16.33  | 19.70  | 17.08  | 19.92  | 19.92  |
| 45.0 | 13.18  | 13.17  | 13.03  | 11.68  | 12.88  | 11.39  | 13.67  | 11.87  | 14.20  | 13.32  |
| 47.5 | 10.10  | 9.242  | 9.721  | 8.510  | 9.154  | 8.274  | 9.804  | 8.621  | 9.997  | 9.607  |
| 50.0 | 7.693  | 6.961  | 6.904  | 6.418  | 6.474  | 6.089  | 7.078  | 6.348  | 7.021  | 7.235  |
| 52.5 | 5.564  | 5.363  | 4.831  | 4.883  | 4.605  | 4.466  | 5.142  | 4.664  | 4.994  | 5.500  |
| 55.0 | 3.958  | 3.968  | 3.480  | 3.684  | 3.187  | 3.229  | 3.669  | 3.373  | 3.454  | 4.147  |
| 57.5 | 2.985  | 2.682  | 2.572  | 2.447  | 2.110  | 2.241  | 2.530  | 2.346  | 2.297  | 2.767  |
| 60.0 | 2.113  | 1.745  | 1.733  | 1.394  | 1.363  | 1.423  | 1.602  | 1.500  | 1.510  | 1.624  |
| 62.5 | 1.148  | 1.104  | 0.8072 | 0.6082 | 0.6650 | 0.6526 | 0.7730 | 0.7287 | 0.8077 | 0.7879 |
| 65.0 | 0.4724 | 0.4388 | 0.1989 | 0.1179 | 0.1539 | 0.0881 | 0.1441 | 0.1076 | 0.2075 | 0.1987 |
| 67.5 | 0.0507 | 0.0657 | 0.0352 | 0.0061 | 0.0214 | 0.0043 | 0.0305 | 0.0051 | 0.0260 | 0.0067 |
| 70.0 | 0.0075 | 0.0036 | 0.0186 | 0.0123 | 0.0102 | 0.0079 | 0.0265 | 0.0079 | 0.0107 | 0.0082 |
| 72.5 | 0.0118 | 0.0050 | 0.0064 | 0.0213 | 0.0026 | 0.0107 | 0.0228 | 0.0124 | 0.0026 | 0.0142 |
| 75.0 | 0.0138 | 0.0116 | 0.0029 | 0.0129 | 0.0056 | 0.0152 | 0.0227 | 0.0161 | 0.0045 | 0.0091 |
| 77.5 | 0.0105 | 0.0134 | 0.0107 | 0.0011 | 0.0149 | 0.0162 | 0.0190 | 0.0162 | 0.0122 | 0.0009 |

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Judy

Test Date:2025-02-21

V(B) Range:-90 - 90DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:7.880m [K=1.0000]

Remarks:

## Photometric Data Table [cd]

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 80.0 | 0.0071 | 0.0096 | 0.0131 | 0.0087 | 0.0083 | 0.0057 | 0.0190 | 0.0057 | 0.0065 | 0.0065 |
| 82.5 | 0.0036 | 0.0055 | 0.0084 | 0.0129 | 0.0043 | 0.0027 | 0.0152 | 0.0033 | 0.0029 | 0.0079 |
| 85.0 | 0      | 0.0013 | 0.0033 | 0.0066 | 0.0127 | 0.0039 | 0.0133 | 0.0039 | 0.0060 | 0      |
| 87.5 | 0      | 0      | 0      | 0      | 0.0031 | 0.0101 | 0.0076 | 0.0029 | 0      | 0      |
| 90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| G/C  | 200.0  | 205.0  | 210.0  | 215.0  | 220.0  | 225.0  | 230.0  | 235.0  | 240.0  | 245.0  |
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2492   | 2485   | 2479   | 2475   | 2471   | 2467   | 2464   | 2462   | 2462   | 2463   |
| 5.0  | 2310   | 2300   | 2294   | 2291   | 2290   | 2291   | 2295   | 2301   | 2306   | 2315   |
| 7.5  | 2057   | 2048   | 2045   | 2048   | 2055   | 2077   | 2104   | 2131   | 2156   | 2179   |
| 10.0 | 1765   | 1759   | 1762   | 1802   | 1845   | 1890   | 1935   | 1979   | 2020   | 2056   |
| 12.5 | 1461   | 1473   | 1523   | 1579   | 1639   | 1703   | 1768   | 1803   | 1806   | 1809   |
| 15.0 | 1182   | 1233   | 1294   | 1364   | 1440   | 1457   | 1459   | 1464   | 1471   | 1480   |
| 17.5 | 953.9  | 1015   | 1085   | 1146   | 1142   | 1141   | 1143   | 1147   | 1159   | 1181   |
| 20.0 | 761.6  | 825.7  | 883.1  | 873.8  | 868.2  | 864.7  | 877.8  | 903.3  | 923.1  | 936.5  |
| 22.5 | 601.0  | 668.2  | 656.7  | 646.0  | 637.8  | 663.8  | 688.8  | 707.9  | 718.5  | 728.0  |
| 25.0 | 464.0  | 483.6  | 469.9  | 458.6  | 485.0  | 511.6  | 533.5  | 545.1  | 554.8  | 563.8  |
| 27.5 | 344.8  | 330.6  | 317.6  | 334.7  | 361.5  | 385.4  | 395.0  | 401.1  | 405.0  | 410.9  |
| 30.0 | 222.1  | 211.9  | 214.7  | 236.7  | 258.6  | 268.4  | 273.1  | 275.6  | 284.2  | 288.7  |
| 32.5 | 134.2  | 127.2  | 144.5  | 161.6  | 170.0  | 173.6  | 179.8  | 185.5  | 184.4  | 177.8  |
| 35.0 | 82.34  | 85.20  | 98.44  | 104.3  | 105.3  | 110.8  | 115.4  | 111.4  | 119.8  | 129.7  |
| 37.5 | 50.82  | 58.44  | 65.81  | 66.24  | 67.73  | 70.76  | 70.72  | 77.56  | 82.98  | 86.69  |
| 40.0 | 32.72  | 41.14  | 42.63  | 42.67  | 45.20  | 45.77  | 49.41  | 51.69  | 53.93  | 54.24  |
| 42.5 | 22.21  | 26.89  | 27.03  | 29.92  | 30.97  | 32.44  | 32.97  | 34.15  | 32.54  | 26.67  |
| 45.0 | 16.02  | 17.16  | 18.42  | 21.29  | 22.46  | 22.64  | 23.05  | 21.19  | 19.38  | 19.33  |
| 47.5 | 11.66  | 11.38  | 13.41  | 14.97  | 15.60  | 16.72  | 15.68  | 15.36  | 15.06  | 14.60  |
| 50.0 | 8.076  | 8.443  | 9.878  | 10.30  | 11.57  | 12.18  | 12.17  | 11.73  | 11.16  | 10.44  |
| 52.5 | 5.618  | 6.500  | 6.974  | 7.578  | 8.623  | 9.061  | 8.948  | 8.642  | 7.797  | 6.553  |
| 55.0 | 4.044  | 4.809  | 4.944  | 5.792  | 6.215  | 6.371  | 6.435  | 5.886  | 5.414  | 5.084  |
| 57.5 | 3.023  | 3.263  | 3.768  | 4.189  | 4.299  | 4.546  | 4.308  | 4.337  | 4.196  | 3.872  |
| 60.0 | 2.086  | 2.172  | 2.724  | 2.757  | 3.091  | 3.152  | 3.172  | 3.110  | 2.998  | 2.706  |
| 62.5 | 1.030  | 1.455  | 1.556  | 1.839  | 2.092  | 2.151  | 2.145  | 2.074  | 1.865  | 1.585  |
| 65.0 | 0.3095 | 0.6681 | 0.7160 | 1.072  | 1.198  | 1.301  | 1.293  | 1.174  | 1.181  | 1.144  |
| 67.5 | 0.0452 | 0.1167 | 0.1555 | 0.4663 | 0.5316 | 0.5921 | 0.7372 | 0.7859 | 0.7607 | 0.7078 |
| 70.0 | 0.0123 | 0.0064 | 0.0198 | 0.1312 | 0.0771 | 0.2946 | 0.4165 | 0.4276 | 0.3730 | 0.2888 |
| 72.5 | 0.0041 | 0.0062 | 0.0147 | 0.0207 | 0.0251 | 0.1097 | 0.1664 | 0.1101 | 0.0007 | 0      |
| 75.0 | 0.0029 | 0.0139 | 0.0155 | 0.0109 | 0.0071 | 0.0156 | 0      | 0      | 0      | 0      |
| 77.5 | 0.0107 | 0.0124 | 0.0074 | 0.0022 | 0      | 0      | 0      | 0      | 0      | 0      |
| 80.0 | 0.0107 | 0.0040 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 82.5 | 0.0013 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 85.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 87.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| G/C  | 250.0  | 255.0  | 260.0  | 265.0  | 270.0  | 275.0  | 280.0  | 285.0  | 290.0  | 295.0  |
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2462   | 2462   | 2462   | 2464   | 2467   | 2466   | 2467   | 2468   | 2470   | 2471   |
| 5.0  | 2321   | 2329   | 2337   | 2342   | 2350   | 2352   | 2355   | 2355   | 2354   | 2352   |
| 7.5  | 2198   | 2215   | 2225   | 2231   | 2235   | 2231   | 2226   | 2219   | 2206   | 2193   |
| 10.0 | 2085   | 2107   | 2120   | 2125   | 2121   | 2107   | 2088   | 2064   | 2035   | 2005   |
| 12.5 | 1814   | 1819   | 1823   | 1824   | 1822   | 1815   | 1805   | 1791   | 1772   | 1747   |
| 15.0 | 1489   | 1499   | 1508   | 1517   | 1523   | 1523   | 1519   | 1511   | 1494   | 1469   |
| 17.5 | 1199   | 1210   | 1219   | 1221   | 1221   | 1218   | 1215   | 1209   | 1202   | 1191   |
| 20.0 | 942.7  | 942.3  | 936.5  | 927.9  | 920.0  | 913.2  | 908.9  | 906.5  | 903.8  | 900.3  |
| 22.5 | 739.6  | 749.4  | 756.3  | 759.2  | 757.1  | 750.0  | 736.6  | 716.7  | 691.0  | 661.1  |
| 25.0 | 572.9  | 581.9  | 588.6  | 593.3  | 594.3  | 591.9  | 584.6  | 571.1  | 551.3  | 526.1  |
| 27.5 | 421.3  | 429.5  | 432.6  | 432.3  | 429.7  | 426.3  | 422.7  | 417.8  | 410.7  | 401.0  |
| 30.0 | 289.7  | 287.9  | 281.6  | 272.8  | 265.1  | 261.0  | 263.1  | 263.1  | 265.2  | 265.6  |
| 32.5 | 190.8  | 201.6  | 207.8  | 209.1  | 206.7  | 201.1  | 192.5  | 179.7  | 162.5  | 142.9  |
| 35.0 | 137.8  | 143.9  | 148.1  | 149.2  | 148.3  | 146.1  | 141.9  | 134.5  | 123.1  | 108.8  |
| 37.5 | 90.52  | 92.27  | 92.24  | 90.57  | 89.07  | 88.70  | 89.06  | 88.64  | 85.73  | 79.72  |
| 40.0 | 51.31  | 45.39  | 38.17  | 32.26  | 29.80  | 31.58  | 36.73  | 43.12  | 47.90  | 49.69  |
| 42.5 | 24.37  | 24.36  | 24.26  | 24.13  | 23.89  | 23.89  | 23.51  | 23.03  | 22.23  | 23.59  |
| 45.0 | 19.13  | 18.85  | 18.60  | 18.48  | 18.46  | 18.43  | 18.36  | 18.26  | 17.91  | 17.38  |
| 47.5 | 14.13  | 13.61  | 13.13  | 12.84  | 12.77  | 12.84  | 13.06  | 13.42  | 13.70  | 13.79  |
| 50.0 | 9.530  | 8.566  | 7.739  | 7.231  | 7.083  | 7.261  | 7.778  | 8.560  | 9.388  | 10.09  |
| 52.5 | 6.040  | 5.850  | 5.737  | 5.712  | 5.743  | 5.760  | 5.806  | 5.933  | 6.124  | 6.563  |
| 55.0 | 4.799  | 4.580  | 4.439  | 4.378  | 4.403  | 4.445  | 4.522  | 4.682  | 4.907  | 5.163  |
| 57.5 | 3.575  | 3.335  | 3.165  | 3.073  | 3.068  | 3.114  | 3.225  | 3.422  | 3.689  | 3.998  |
| 60.0 | 2.381  | 2.107  | 1.899  | 1.771  | 1.733  | 1.783  | 1.928  | 2.159  | 2.456  | 2.796  |
| 62.5 | 1.489  | 1.403  | 1.341  | 1.305  | 1.299  | 1.315  | 1.361  | 1.438  | 1.536  | 1.633  |
| 65.0 | 1.055  | 0.9703 | 0.9097 | 0.8723 | 0.8654 | 0.8809 | 0.9247 | 0.9973 | 1.093  | 1.192  |
| 67.5 | 0.6228 | 0.5390 | 0.4788 | 0.4421 | 0.4327 | 0.4466 | 0.4871 | 0.5551 | 0.6479 | 0.7550 |
| 70.0 | 0.1926 | 0.1085 | 0.0483 | 0.0121 | 0      | 0.0122 | 0.0491 | 0.1118 | 0.2003 | 0.3088 |

H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

|      |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 72.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 75.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 77.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 80.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 82.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 85.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 87.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| G/C  | 300.0  | 305.0  | 310.0  | 315.0  | 320.0  | 325.0  | 330.0  | 335.0  | 340.0  | 345.0  |
| 0.0  | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   | 2583   |
| 2.5  | 2470   | 2469   | 2470   | 2471   | 2472   | 2474   | 2474   | 2476   | 2479   | 2483   |
| 5.0  | 2344   | 2338   | 2329   | 2321   | 2314   | 2309   | 2303   | 2300   | 2299   | 2301   |
| 7.5  | 2178   | 2165   | 2154   | 2145   | 2134   | 2114   | 2093   | 2077   | 2064   | 2055   |
| 10.0 | 1974   | 1943   | 1915   | 1891   | 1870   | 1857   | 1850   | 1818   | 1789   | 1767   |
| 12.5 | 1719   | 1687   | 1648   | 1607   | 1574   | 1550   | 1533   | 1527   | 1498   | 1461   |
| 15.0 | 1438   | 1400   | 1359   | 1316   | 1274   | 1241   | 1219   | 1207   | 1205   | 1168   |
| 17.5 | 1178   | 1148   | 1103   | 1054   | 1007   | 962.0  | 933.7  | 917.9  | 912.0  | 902.7  |
| 20.0 | 894.0  | 882.9  | 868.6  | 836.7  | 786.7  | 739.7  | 697.9  | 677.2  | 669.0  | 669.7  |
| 22.5 | 638.3  | 639.4  | 634.6  | 624.7  | 610.1  | 563.4  | 521.1  | 486.7  | 477.1  | 476.2  |
| 25.0 | 496.1  | 464.3  | 441.5  | 440.9  | 433.8  | 424.2  | 383.3  | 349.7  | 331.0  | 328.2  |
| 27.5 | 380.9  | 355.0  | 327.9  | 297.8  | 291.5  | 285.4  | 274.2  | 243.2  | 220.1  | 216.3  |
| 30.0 | 264.0  | 259.7  | 241.5  | 214.9  | 183.0  | 177.9  | 178.1  | 164.0  | 142.9  | 135.1  |
| 32.5 | 155.1  | 162.9  | 163.6  | 150.2  | 124.8  | 103.3  | 107.1  | 107.7  | 92.68  | 83.03  |
| 35.0 | 94.18  | 82.63  | 94.17  | 94.39  | 84.97  | 69.41  | 61.86  | 65.27  | 60.08  | 51.70  |
| 37.5 | 70.17  | 59.18  | 48.80  | 53.42  | 54.56  | 47.97  | 40.02  | 40.00  | 40.29  | 34.24  |
| 40.0 | 48.65  | 43.79  | 36.81  | 31.27  | 33.24  | 33.53  | 29.10  | 25.75  | 26.58  | 23.18  |
| 42.5 | 28.59  | 29.39  | 27.86  | 24.45  | 21.72  | 22.57  | 21.93  | 18.14  | 17.65  | 16.73  |
| 45.0 | 16.74  | 17.87  | 19.33  | 19.16  | 17.38  | 15.36  | 15.60  | 13.88  | 12.51  | 12.63  |
| 47.5 | 13.60  | 13.26  | 13.01  | 14.04  | 13.90  | 12.09  | 11.17  | 10.94  | 9.267  | 9.480  |
| 50.0 | 10.59  | 10.77  | 10.58  | 9.971  | 10.26  | 9.712  | 8.399  | 8.114  | 7.265  | 6.968  |
| 52.5 | 7.581  | 8.212  | 8.512  | 8.058  | 7.345  | 7.379  | 6.700  | 5.959  | 5.745  | 5.086  |
| 55.0 | 5.432  | 5.723  | 6.241  | 6.382  | 5.858  | 5.313  | 5.253  | 4.478  | 4.346  | 3.640  |
| 57.5 | 4.289  | 4.363  | 4.256  | 4.578  | 4.604  | 4.046  | 3.697  | 3.451  | 2.984  | 2.667  |
| 60.0 | 3.123  | 3.313  | 3.289  | 3.160  | 3.193  | 3.098  | 2.514  | 2.379  | 1.894  | 1.823  |
| 62.5 | 1.929  | 2.187  | 2.340  | 2.318  | 2.082  | 1.938  | 1.727  | 1.264  | 1.135  | 0.9398 |
| 65.0 | 1.227  | 1.182  | 1.329  | 1.443  | 1.363  | 1.010  | 0.8544 | 0.5528 | 0.4397 | 0.1886 |
| 67.5 | 0.8225 | 0.8254 | 0.7231 | 0.5340 | 0.6104 | 0.5704 | 0.1366 | 0.2089 | 0.0243 | 0.0256 |
| 70.0 | 0.4097 | 0.4766 | 0.4630 | 0.2833 | 0.0158 | 0.1914 | 0.0536 | 0.0256 | 0.0075 | 0.0125 |
| 72.5 | 0.0008 | 0.1230 | 0.1925 | 0.1519 | 0.0071 | 0      | 0.0093 | 0.0102 | 0.0121 | 0.0050 |
| 75.0 | 0      | 0      | 0      | 0.0230 | 0.0011 | 0      | 0      | 0.0036 | 0.0122 | 0.0083 |
| 77.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.0045 | 0.0153 |
| 80.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.0064 |
| 82.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 85.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 87.5 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 90.0 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| G/C  | 350.0  | 355.0  |        |        |        |        |        |        |        |        |
| 0.0  | 2583   | 2583   |        |        |        |        |        |        |        |        |
| 2.5  | 2488   | 2494   |        |        |        |        |        |        |        |        |
| 5.0  | 2306   | 2313   |        |        |        |        |        |        |        |        |
| 7.5  | 2051   | 2053   |        |        |        |        |        |        |        |        |
| 10.0 | 1752   | 1747   |        |        |        |        |        |        |        |        |
| 12.5 | 1436   | 1421   |        |        |        |        |        |        |        |        |
| 15.0 | 1131   | 1106   |        |        |        |        |        |        |        |        |
| 17.5 | 860.4  | 831.2  |        |        |        |        |        |        |        |        |
| 20.0 | 637.3  | 605.1  |        |        |        |        |        |        |        |        |
| 22.5 | 461.9  | 432.1  |        |        |        |        |        |        |        |        |
| 25.0 | 326.6  | 297.7  |        |        |        |        |        |        |        |        |
| 27.5 | 217.9  | 193.9  |        |        |        |        |        |        |        |        |
| 30.0 | 136.4  | 122.3  |        |        |        |        |        |        |        |        |
| 32.5 | 83.13  | 76.38  |        |        |        |        |        |        |        |        |
| 35.0 | 51.40  | 48.57  |        |        |        |        |        |        |        |        |
| 37.5 | 32.91  | 32.11  |        |        |        |        |        |        |        |        |
| 40.0 | 21.46  | 21.52  |        |        |        |        |        |        |        |        |
| 42.5 | 15.18  | 15.63  |        |        |        |        |        |        |        |        |
| 45.0 | 11.13  | 11.76  |        |        |        |        |        |        |        |        |
| 47.5 | 8.499  | 8.799  |        |        |        |        |        |        |        |        |
| 50.0 | 6.524  | 6.605  |        |        |        |        |        |        |        |        |
| 52.5 | 4.979  | 4.871  |        |        |        |        |        |        |        |        |
| 55.0 | 3.744  | 3.497  |        |        |        |        |        |        |        |        |
| 57.5 | 2.659  | 2.338  |        |        |        |        |        |        |        |        |
| 60.0 | 1.584  | 1.381  |        |        |        |        |        |        |        |        |
| 62.5 | 0.6356 | 0.5351 |        |        |        |        |        |        |        |        |

H(B) Range:-90 - 90DEG  
H(B) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

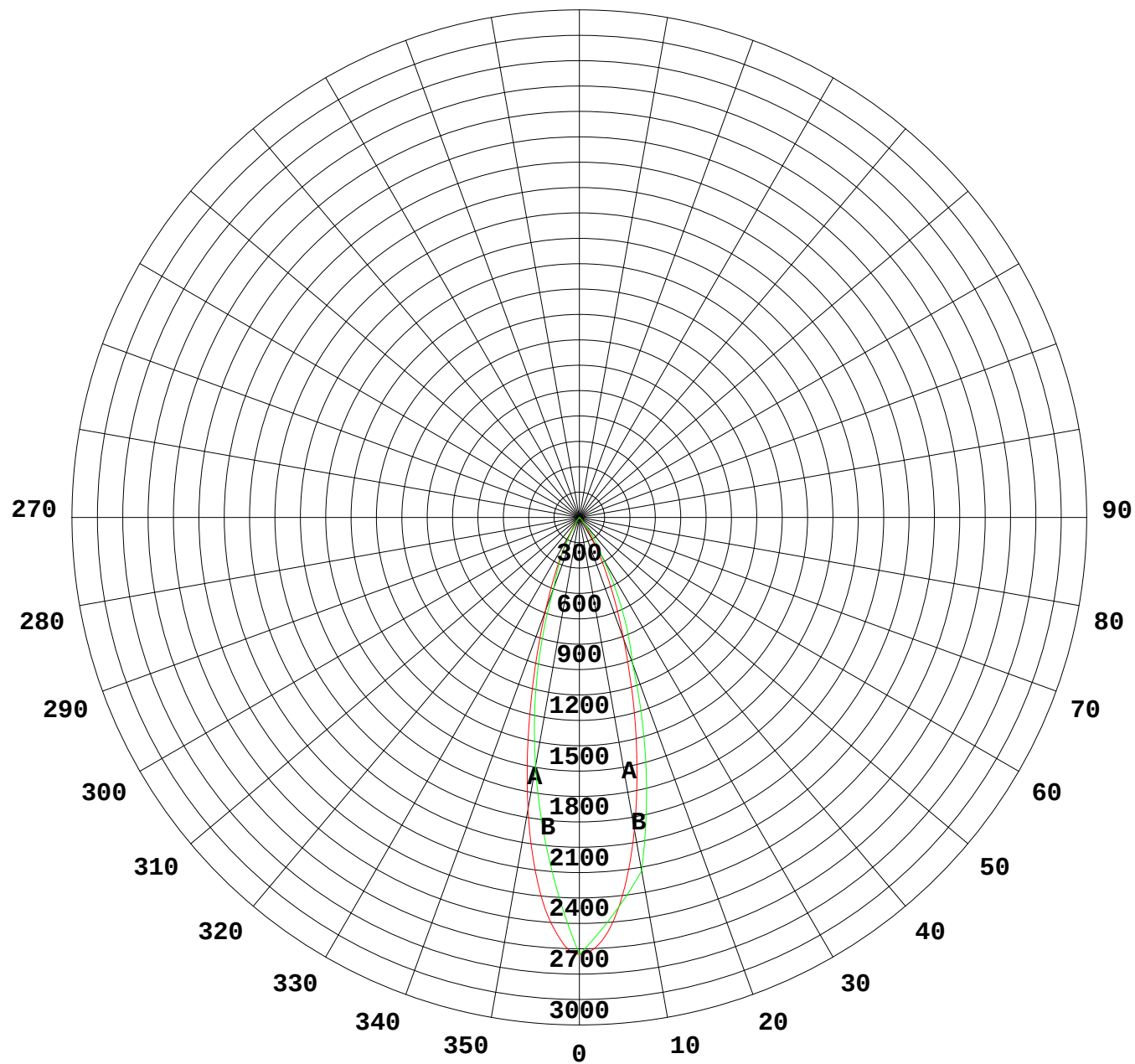
**Photometric Data Table [cd]**

|      |        |        |
|------|--------|--------|
| 65.0 | 0.0539 | 0.0053 |
| 67.5 | 0.0120 | 0.0269 |
| 70.0 | 0.0159 | 0.0214 |
| 72.5 | 0.0197 | 0.0162 |
| 75.0 | 0.0145 | 0.0116 |
| 77.5 | 0.0067 | 0.0092 |
| 80.0 | 0.0073 | 0.0143 |
| 82.5 | 0.0086 | 0.0112 |
| 85.0 | 0      | 0.0056 |
| 87.5 | 0      | 0      |
| 90.0 | 0      | 0      |

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Judy  
Test Date:2025-02-21

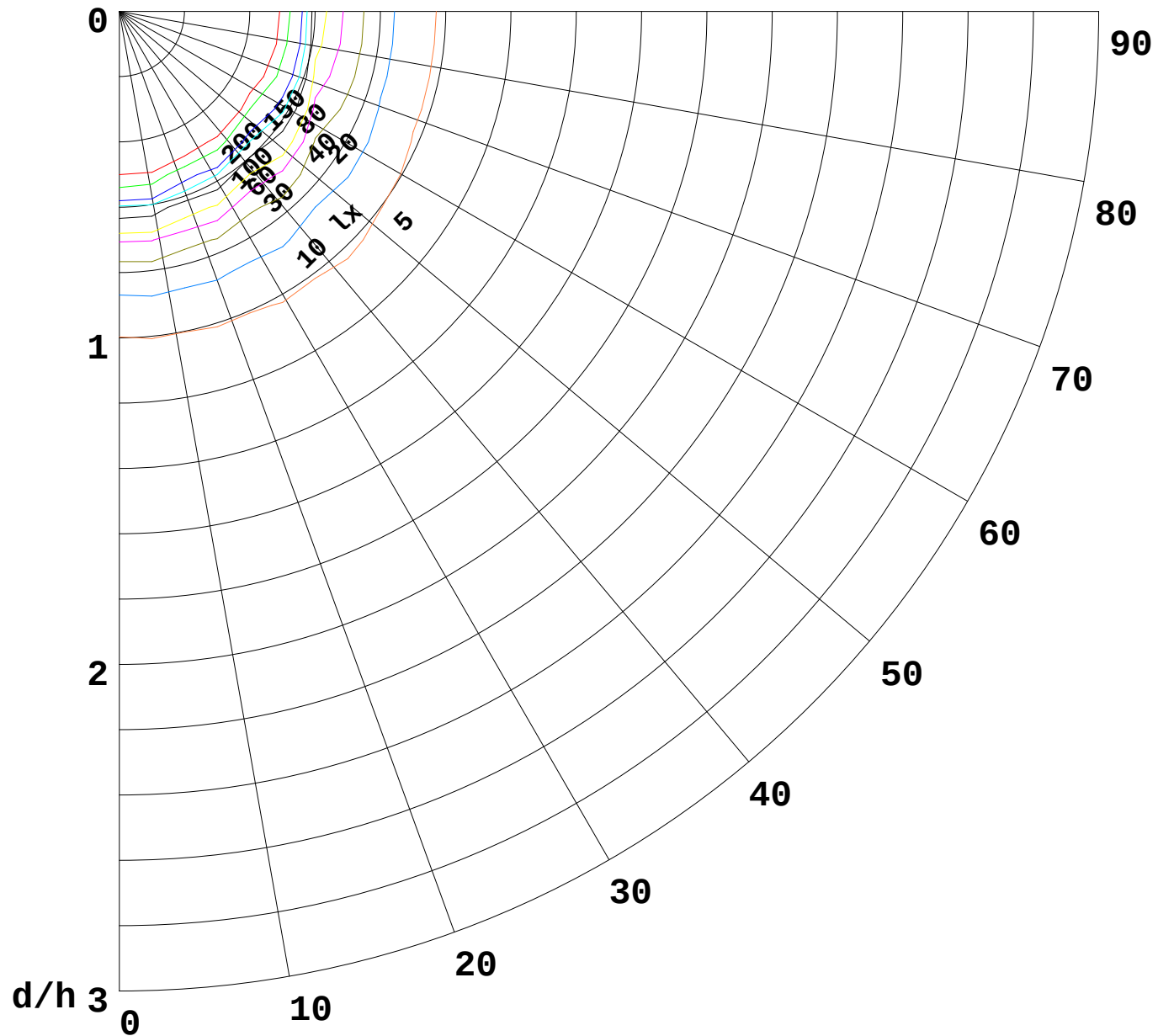
V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.880m [K=1.0000]  
Remarks:

**I(cd)**



1000  $\text{lm}$

$K = 1$



F = 1000 lm  
 K = 0.7  
 Hcc = 0.8 m  
 Hfc = 0.0 m  
 Eave = 100 lx

|      | Pcc | Pw | Pfc |
|------|-----|----|-----|
| ———— | 70  | 50 | 30  |
| ———— | 50  | 30 | 20  |

