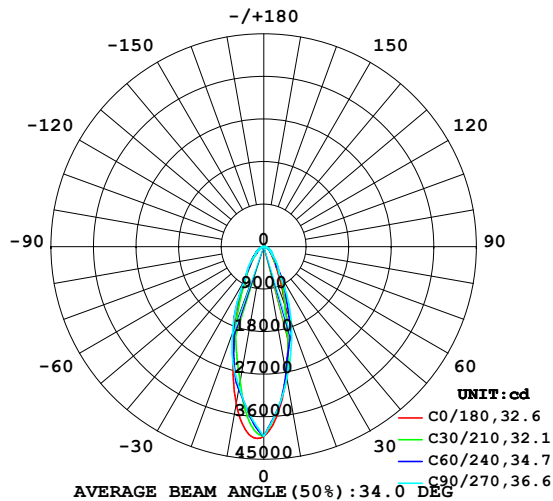


LUMINAIRE PHOTOMETRIC TEST REPORT

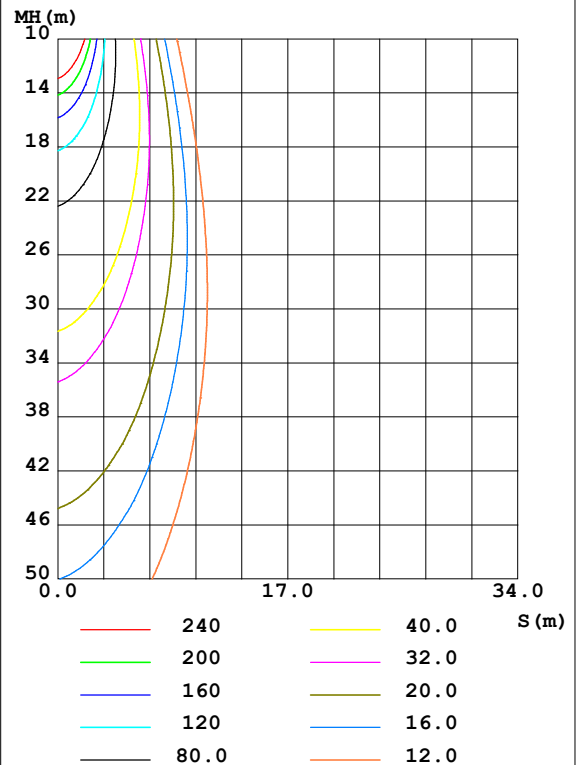
| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 148.57 lm/W | | | |
|------------------|----------|-----------------------------------|--------|------------------------|----------|
| MODEL | GSM-23-U | Imax(cd) | 40603 | S/MH(C0/180) | 0.60 |
| NOMINAL POWER(W) | 150W | LOR(%) | 100.0 | S/MH(C90/270) | 0.62 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 22757 | η UP,DN(C0-180) | 0.0,48.4 |
| NOMINAL FLUX(lm) | 22757 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,51.6 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE(V) | 120 | η down(%) | 100.0 | CIBSE SHR MAX | 0.65 |

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:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|--------------------------|-------|-------|-------|--------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 2748 | 2731 | 2817 | 2856 | 3371 | 2990 | 3015 | 2835 | 0- 10 | 3180 | 3180 | 14,14 |
| 20 | 1328 | 1535 | 1701 | 1532 | 1762 | 1694 | 1935 | 1663 | 10- 20 | 6136 | 9316 | 40.9,40.9 |
| 30 | 575.0 | 694.0 | 662.8 | 784.4 | 788.5 | 864.6 | 772.8 | 741.3 | 20- 30 | 5169 | 14486 | 63.7,63.7 |
| 40 | 302.7 | 321.1 | 390.3 | 363.7 | 377.0 | 401.7 | 438.9 | 341.6 | 30- 40 | 3228 | 17713 | 77.8,77.8 |
| 50 | 192.1 | 194.2 | 214.9 | 219.4 | 230.8 | 235.8 | 224.9 | 204.4 | 40- 50 | 2149 | 19862 | 87.3,87.3 |
| 60 | 116.8 | 118.7 | 136.7 | 133.3 | 149.0 | 139.9 | 130.7 | 121.4 | 50- 60 | 1517 | 21379 | 93.9,93.9 |
| 70 | 52.35 | 63.61 | 71.37 | 69.60 | 81.10 | 69.37 | 66.37 | 58.31 | 60- 70 | 959.8 | 22339 | 98.2,98.2 |
| 80 | 6.989 | 13.58 | 0 | 15.03 | 24.96 | 14.60 | 0 | 10.18 | 70- 80 | 394.5 | 22733 | 99.9,99.9 |
| 90 | 0.2997 | 0 | 0 | 0 | 0.2499 | 0 | 0 | 0 | 80- 90 | 23.26 | 22757 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:×10cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 18894 lm

%lum = 83.0%

%lamp = 83.0%

Conical surface Flux(120deg): 21379 lm

%lum = 93.9%

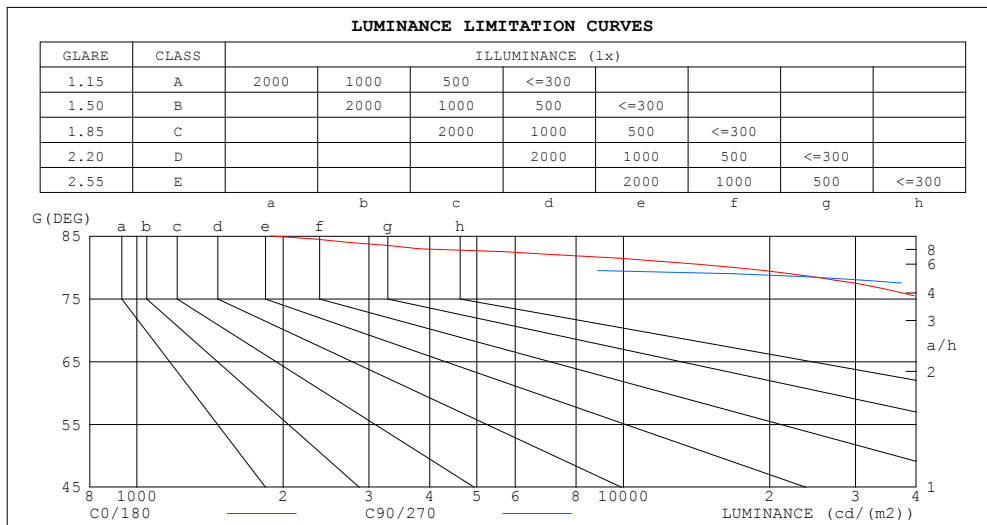
%lamp = 93.9%

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Gu
 Test Date:2025-03-05

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.448m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 1887 | 0 |
| 80 | 16770 | 0 |
| 75 | 41959 | 62465 |
| 70 | 63781 | 86950 |
| 65 | 81535 | 102676 |
| 60 | 97334 | 113885 |
| 55 | 110854 | 127810 |
| 50 | 124532 | 139302 |
| 45 | 141385 | 149788 |

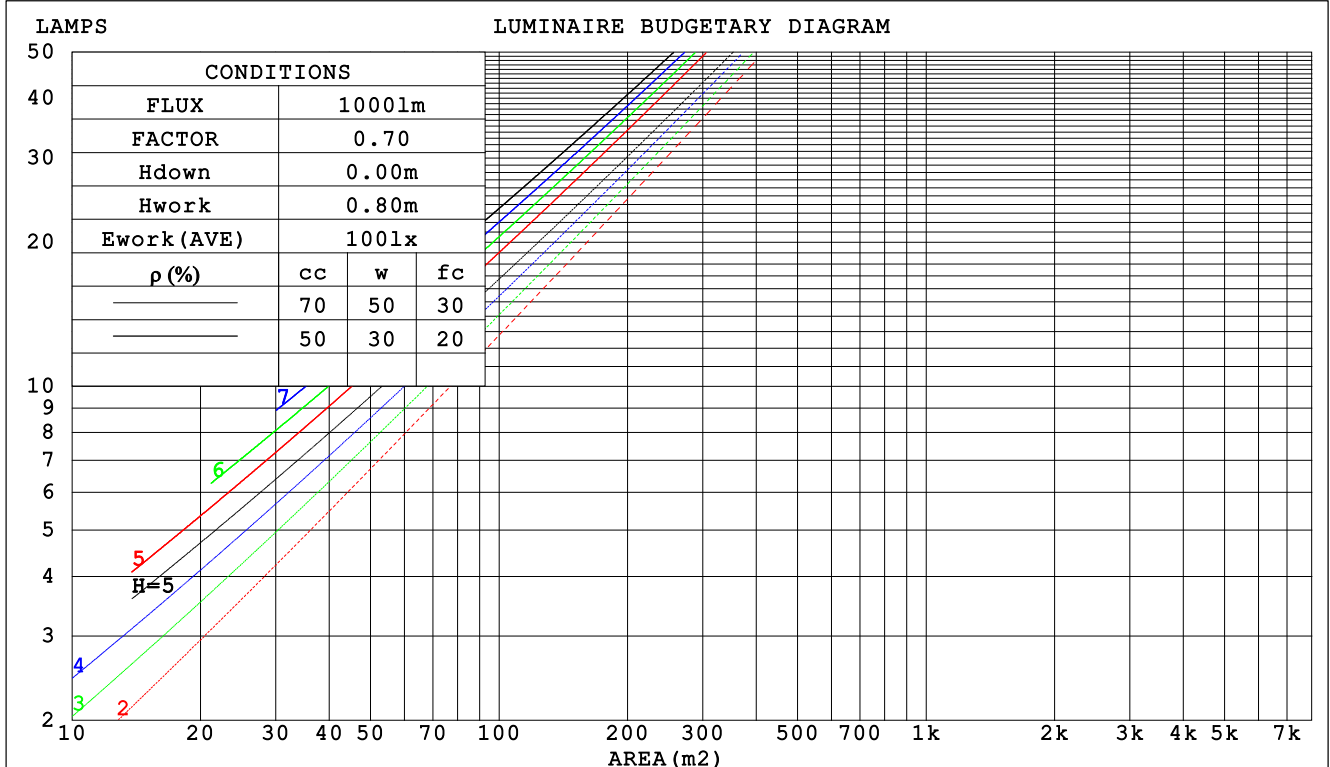
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{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 | .00 |
| 1.0 | 1.09 | 1.07 | 1.04 | 1.07 | 1.05 | 1.02 | 1.03 | 1.01 | .99 | .99 | .98 | .96 | .96 | .95 | .93 | .92 |
| 2.0 | 1.01 | .96 | .92 | .99 | .95 | .91 | .95 | .92 | .89 | .92 | .90 | .87 | .90 | .87 | .85 | .83 |
| 3.0 | .93 | .87 | .83 | .91 | .86 | .82 | .89 | .84 | .81 | .86 | .82 | .79 | .84 | .81 | .78 | .76 |
| 4.0 | .86 | .80 | .75 | .85 | .79 | .75 | .83 | .78 | .74 | .81 | .76 | .73 | .79 | .75 | .72 | .70 |
| 5.0 | .80 | .74 | .69 | .79 | .73 | .69 | .77 | .72 | .68 | .76 | .71 | .68 | .74 | .70 | .67 | .65 |
| 6.0 | .75 | .69 | .64 | .74 | .68 | .64 | .73 | .67 | .63 | .71 | .66 | .63 | .70 | .66 | .62 | .61 |
| 7.0 | .71 | .64 | .60 | .70 | .64 | .59 | .69 | .63 | .59 | .67 | .62 | .59 | .66 | .62 | .58 | .57 |
| 8.0 | .67 | .60 | .56 | .66 | .60 | .56 | .65 | .59 | .56 | .64 | .59 | .55 | .63 | .58 | .55 | .54 |
| 9.0 | .63 | .57 | .53 | .63 | .57 | .53 | .62 | .56 | .52 | .61 | .56 | .52 | .60 | .55 | .52 | .51 |
| 10.0 | .60 | .54 | .50 | .59 | .54 | .50 | .59 | .53 | .50 | .58 | .53 | .49 | .57 | .53 | .49 | .48 |



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

| 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 | .203 | .115 | .037 | .196 | .112 | .036 | .184 | .105 | .034 | .172 | .099 | .032 | .161 | .093 | .030 | | |
| 2.0 | .195 | .107 | .033 | .189 | .104 | .032 | .178 | .099 | .031 | .168 | .094 | .030 | .159 | .090 | .028 | | |
| 3.0 | .184 | .098 | .029 | .179 | .096 | .029 | .170 | .092 | .028 | .161 | .088 | .027 | .153 | .085 | .026 | | |
| 4.0 | .173 | .090 | .026 | .169 | .088 | .026 | .161 | .085 | .025 | .153 | .082 | .025 | .146 | .079 | .024 | | |
| 5.0 | .163 | .083 | .024 | .159 | .082 | .024 | .152 | .079 | .023 | .146 | .077 | .023 | .139 | .075 | .022 | | |
| 6.0 | .154 | .077 | .022 | .150 | .076 | .022 | .144 | .074 | .021 | .138 | .072 | .021 | .133 | .070 | .021 | | |
| 7.0 | .145 | .072 | .020 | .142 | .071 | .020 | .137 | .069 | .020 | .132 | .067 | .020 | .127 | .066 | .019 | | |
| 8.0 | .138 | .067 | .019 | .135 | .066 | .019 | .130 | .065 | .019 | .125 | .064 | .018 | .121 | .062 | .018 | | |
| 9.0 | .131 | .063 | .018 | .128 | .062 | .018 | .124 | .061 | .017 | .120 | .060 | .017 | .116 | .059 | .017 | | |
| 10.0 | .124 | .060 | .017 | .122 | .059 | .016 | .118 | .058 | .016 | .114 | .057 | .016 | .111 | .056 | .016 | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .173 | .157 | .143 | .148 | .135 | .123 | .101 | .093 | .085 | .058 | .054 | .049 | .019 | .017 | .016 | |
| 2.0 | .159 | .132 | .110 | .136 | .114 | .095 | .094 | .079 | .066 | .054 | .046 | .039 | .017 | .015 | .013 | |
| 3.0 | .148 | .114 | .086 | .127 | .098 | .075 | .087 | .068 | .053 | .050 | .040 | .031 | .016 | .013 | .010 | |
| 4.0 | .138 | .099 | .070 | .119 | .086 | .060 | .081 | .060 | .043 | .047 | .035 | .025 | .015 | .011 | .008 | |
| 5.0 | .130 | .088 | .057 | .111 | .076 | .050 | .077 | .053 | .035 | .044 | .031 | .021 | .014 | .010 | .007 | |
| 6.0 | .122 | .079 | .048 | .105 | .068 | .042 | .072 | .048 | .029 | .042 | .028 | .017 | .014 | .009 | .006 | |
| 7.0 | .115 | .071 | .041 | .099 | .062 | .035 | .068 | .043 | .025 | .040 | .026 | .015 | .013 | .008 | .005 | |
| 8.0 | .109 | .065 | .035 | .094 | .056 | .030 | .065 | .040 | .022 | .038 | .023 | .013 | .012 | .008 | .004 | |
| 9.0 | .104 | .060 | .030 | .089 | .052 | .026 | .062 | .037 | .019 | .036 | .022 | .011 | .012 | .007 | .004 | |
| 10.0 | .099 | .055 | .027 | .085 | .048 | .023 | .059 | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 | |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|------------------|----------------|------|---------------------|------|------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | | | | | | | | | |
| NAME: GSM-23-U | | | | | TYPE:Flood Light | | | WEIGHT:N/A | | |
| SPEC.:150W/5000K/30° | | | | | DIM.: 190*150mm | | | SERIAL No.:N/A | | |
| MFR.: Grin Industrial Co., Ltd. | | | | | SUR.:N/A | | | Shielding Angle:N/A | | |
| 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 | 15.5 | 16.5 | 15.7 | 16.7 | 16.9 | 16.2 | 17.3 | 16.4 | 17.4 | 17.6 |
| 3H | 16.2 | 17.2 | 16.5 | 17.4 | 17.6 | 17.1 | 18.1 | 17.4 | 18.3 | 18.5 |
| 4H | 16.4 | 17.3 | 16.7 | 17.5 | 17.8 | 17.4 | 18.3 | 17.7 | 18.5 | 18.8 |
| 6H | 16.4 | 17.3 | 16.7 | 17.5 | 17.8 | 17.4 | 18.2 | 17.7 | 18.5 | 18.7 |
| 8H | 16.4 | 17.2 | 16.7 | 17.5 | 17.7 | 17.3 | 18.2 | 17.6 | 18.4 | 18.7 |
| 12H | 16.3 | 17.1 | 16.6 | 17.4 | 17.7 | 17.3 | 18.1 | 17.6 | 18.4 | 18.6 |
| 4H 2H | 15.9 | 16.8 | 16.2 | 17.0 | 17.3 | 16.5 | 17.4 | 16.8 | 17.6 | 17.9 |
| 3H | 16.8 | 17.6 | 17.1 | 17.8 | 18.1 | 17.6 | 18.4 | 17.9 | 18.7 | 19.0 |
| 4H | 17.0 | 17.7 | 17.4 | 18.1 | 18.4 | 17.9 | 18.6 | 18.3 | 18.9 | 19.3 |
| 6H | 17.1 | 17.7 | 17.5 | 18.1 | 18.4 | 17.9 | 18.6 | 18.3 | 18.9 | 19.2 |
| 8H | 17.0 | 17.6 | 17.4 | 18.0 | 18.4 | 17.9 | 18.5 | 18.3 | 18.8 | 19.2 |
| 12H | 17.0 | 17.5 | 17.4 | 17.9 | 18.3 | 17.8 | 18.4 | 18.2 | 18.7 | 19.1 |
| 8H 4H | 17.1 | 17.7 | 17.5 | 18.1 | 18.4 | 17.9 | 18.5 | 18.3 | 18.9 | 19.3 |
| 6H | 17.2 | 17.7 | 17.7 | 18.1 | 18.5 | 18.0 | 18.5 | 18.4 | 18.8 | 19.3 |
| 8H | 17.2 | 17.6 | 17.7 | 18.1 | 18.5 | 17.9 | 18.3 | 18.4 | 18.8 | 19.2 |
| 12H | 17.2 | 17.5 | 17.6 | 18.0 | 18.5 | 17.9 | 18.2 | 18.3 | 18.7 | 19.1 |
| 12H 4H | 17.1 | 17.6 | 17.5 | 18.0 | 18.4 | 17.9 | 18.5 | 18.3 | 18.8 | 19.2 |
| 6H | 17.2 | 17.6 | 17.6 | 18.0 | 18.5 | 17.9 | 18.4 | 18.4 | 18.8 | 19.2 |
| 8H | 17.2 | 17.5 | 17.6 | 18.0 | 18.5 | 17.9 | 18.2 | 18.3 | 18.7 | 19.2 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.6 / - 0.8 | | | | | + 0.5 / - 0.7 | | | | |
| 1.5H | + 0.3 / - 0.5 | | | | | + 0.7 / - 0.4 | | | | |
| 2.0H | + 1.0 / - 0.7 | | | | | + 0.7 / - 0.7 | | | | |

CIE Pub.117, 22757 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.9)
Area: 0.024 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

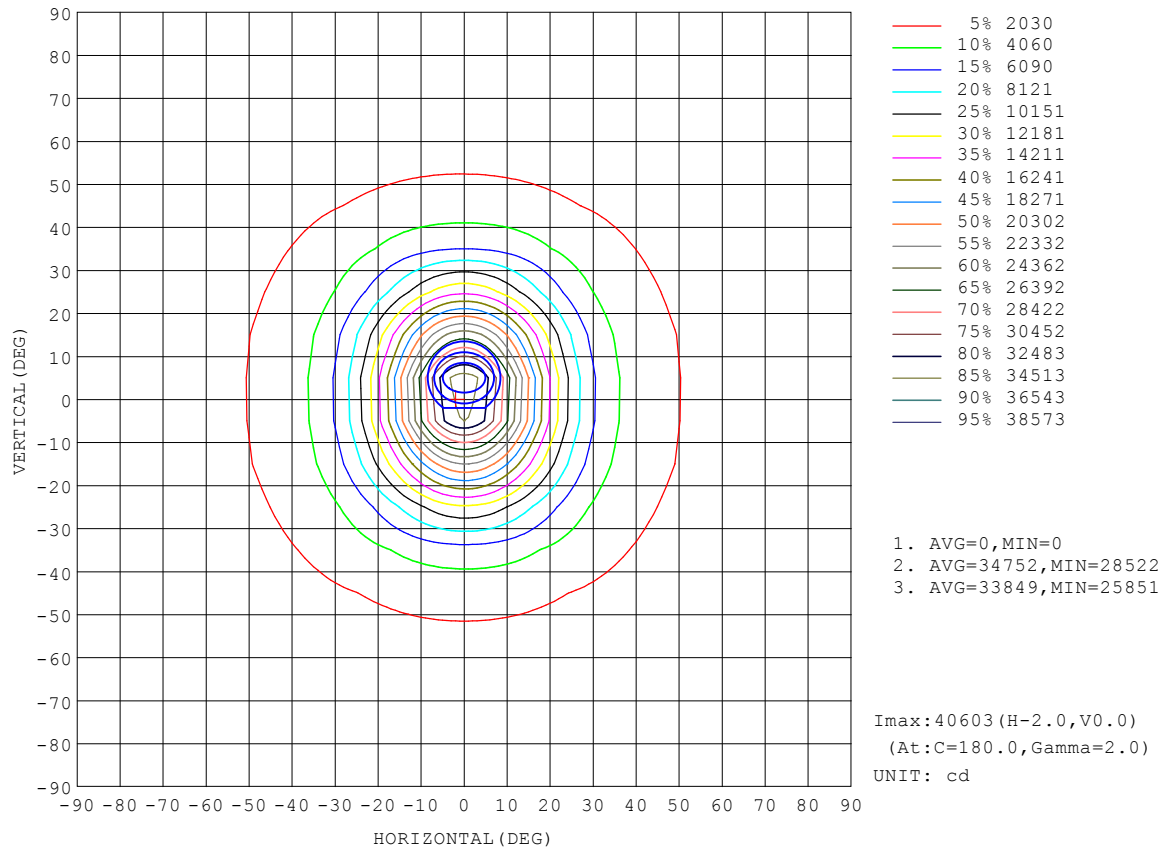
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 78 | 70 | 65 | 77 | 69 | 65 | 76 | 69 | 65 | 60 |
| 0.80 | 86 | 78 | 74 | 85 | 78 | 73 | 84 | 77 | 73 | 68 |
| 1.00 | 92 | 85 | 80 | 91 | 84 | 80 | 89 | 85 | 79 | 74 |
| 1.25 | 97 | 90 | 86 | 96 | 90 | 85 | 94 | 88 | 85 | 79 |
| 1.50 | 101 | 94 | 90 | 99 | 94 | 89 | 97 | 92 | 88 | 83 |
| 2.00 | 105 | 99 | 95 | 103 | 98 | 94 | 100 | 96 | 93 | 87 |
| 2.50 | 107 | 102 | 98 | 105 | 101 | 97 | 102 | 98 | 95 | 89 |
| 3.00 | 109 | 105 | 101 | 107 | 103 | 100 | 104 | 101 | 98 | 91 |
| 4.00 | 112 | 108 | 105 | 110 | 106 | 104 | 106 | 103 | 101 | 94 |
| 5.00 | 113 | 110 | 108 | 111 | 108 | 106 | 107 | 105 | 103 | 95 |
| 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:Gu
 Test Date:2025-03-05

$V(B)$ Range:-75 - 75DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.448m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

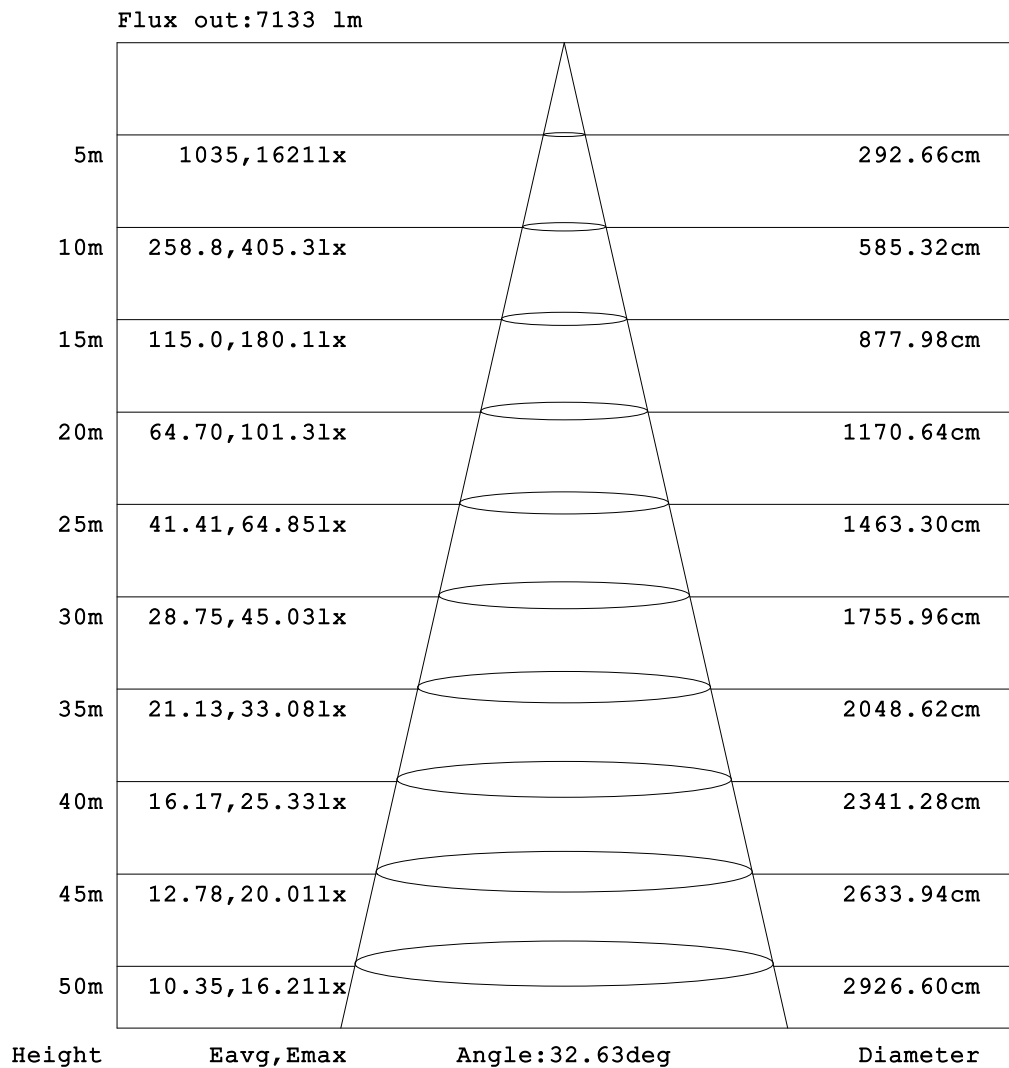


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |



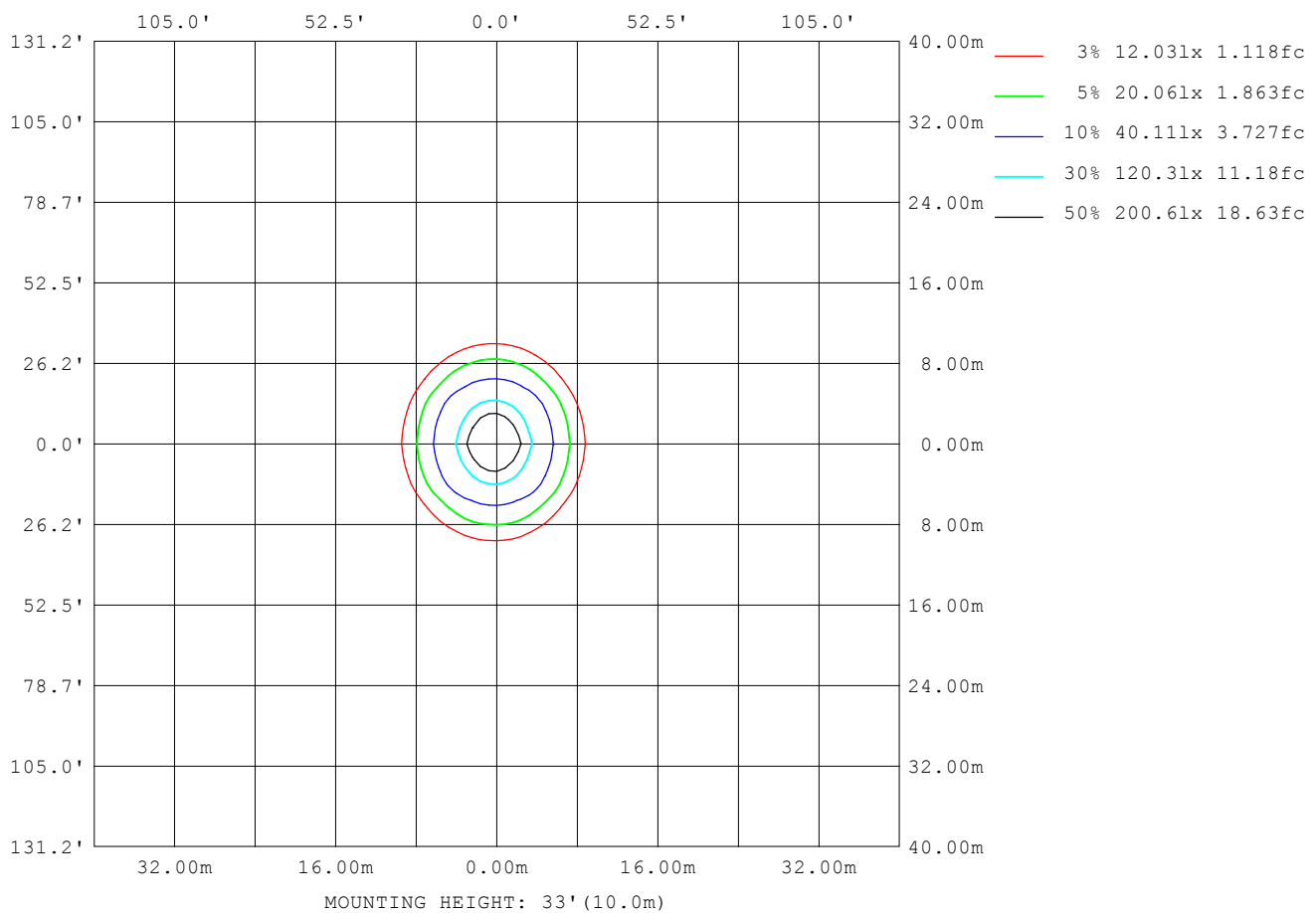
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|--|------------------|---------------------|
| Test:U:120.81V I:1.2688A P:153.17W PF:0.9992 Freq:59.98Hz Lamp Flux:22757x1 lm | | |
| NAME: GSM-23-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:150W/5000K/30° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

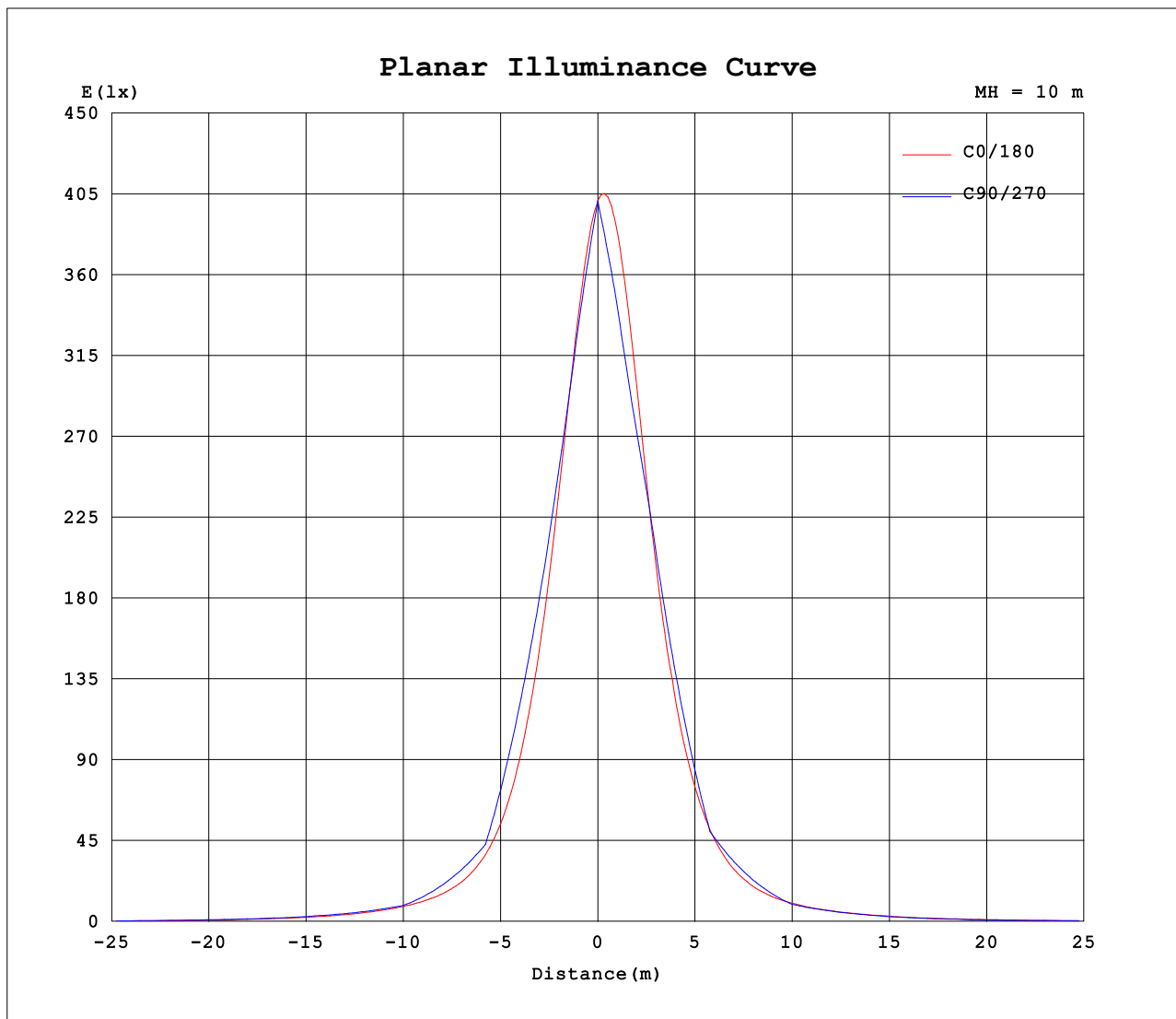
| AvgL | cd/m2 |
|------------------|--------|
| L_0~180 (65) av | 97176 |
| L_0~180 (75) av | 62000 |
| L_0~180 (85) av | 15687 |
| L_90~270 (65) av | 100035 |
| L_90~270 (75) av | 58919 |
| L_90~270 (85) av | 0 |
| L_45 (65) av | 93769 |
| L_45 (75) av | 62051 |
| L_45 (85) av | 0 |

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-05

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks:
```

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.448m [K=1.0000]
Remarks: