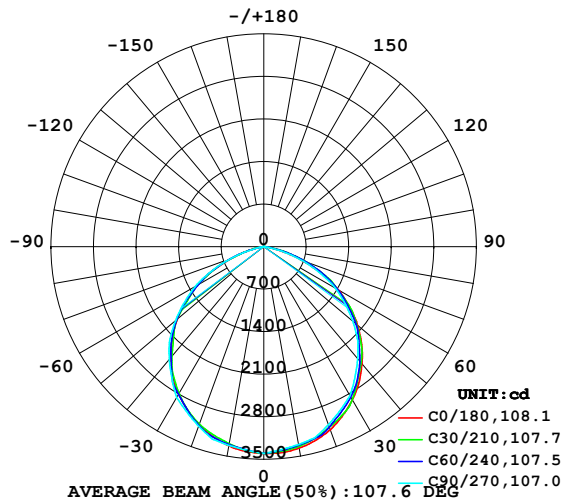


LUMINAIRE PHOTOMETRIC TEST REPORT

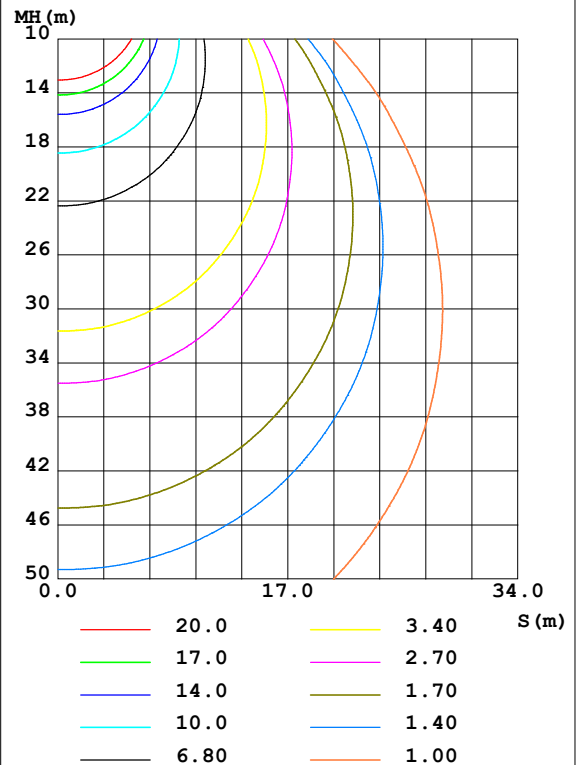
| | | |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 109.88 lm/W | | | |
|------------------|-----------|-----------------------------------|--------|-------------------|----------|
| MODEL | GHSL-13-U | I _{max} (cd) | 3405 | S/MH(C0/180) | 1.23 |
| NOMINAL POWER(W) | 80W | LOR(%) | 100.0 | S/MH(C90/270) | 1.24 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 8731.2 | η UP,DN(C0-180) | 0.0,50.2 |
| NOMINAL FLUX(lm) | 8731.2 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,49.8 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 120 | η down(%) | 100.0 | CIBSE SHR MAX | 1.35 |

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:2025-03-14

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 | 3366 | 3325 | 3305 | 3287 | 3327 | 3297 | 3319 | 3335 | 0- 10 | 319.8 | 319.8 | 3.66, 3.66 |
| 20 | 3204 | 3187 | 3116 | 3103 | 3120 | 3125 | 3141 | 3207 | 10- 20 | 915.9 | 1236 | 14.2, 14.2 |
| 30 | 2914 | 2866 | 2836 | 2765 | 2799 | 2792 | 2866 | 2886 | 20- 30 | 1382 | 2617 | 30, 30 |
| 40 | 2514 | 2483 | 2407 | 2372 | 2377 | 2399 | 2420 | 2503 | 30- 40 | 1653 | 4271 | 48.9, 48.9 |
| 50 | 2019 | 1966 | 1914 | 1843 | 1860 | 1862 | 1896 | 1965 | 40- 50 | 1682 | 5953 | 68.2, 68.2 |
| 60 | 1414 | 1397 | 1358 | 1246 | 1262 | 1246 | 1295 | 1359 | 50- 60 | 1450 | 7403 | 84.8, 84.8 |
| 70 | 658.1 | 777.6 | 671.0 | 611.2 | 552.6 | 592.5 | 581.2 | 693.4 | 60- 70 | 971.6 | 8375 | 95.9, 95.9 |
| 80 | 85.63 | 126.8 | 0 | 66.28 | 69.13 | 46.95 | 0 | 69.95 | 70- 80 | 344.5 | 8720 | 99.9, 99.9 |
| 90 | 1.397 | 0 | 0 | 0 | 1.672 | 0 | 0 | 0 | 80- 90 | 11.67 | 8731 | 100, 100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 5123.8 lm

%lum = 58.7%

%lamp = 58.7%

Conical surface Flux(120deg): 7403.4 lm

%lum = 84.8%

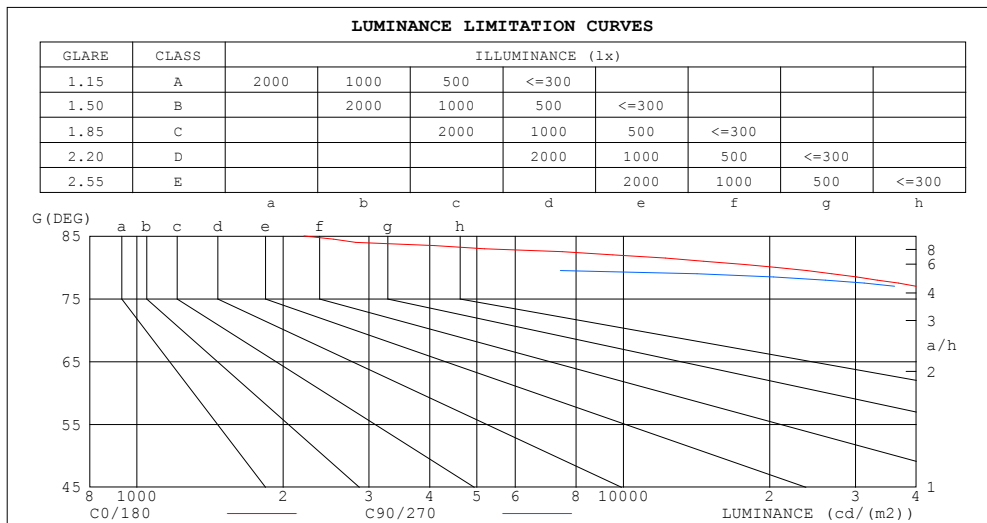
%lamp = 84.8%

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Gu
 Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |



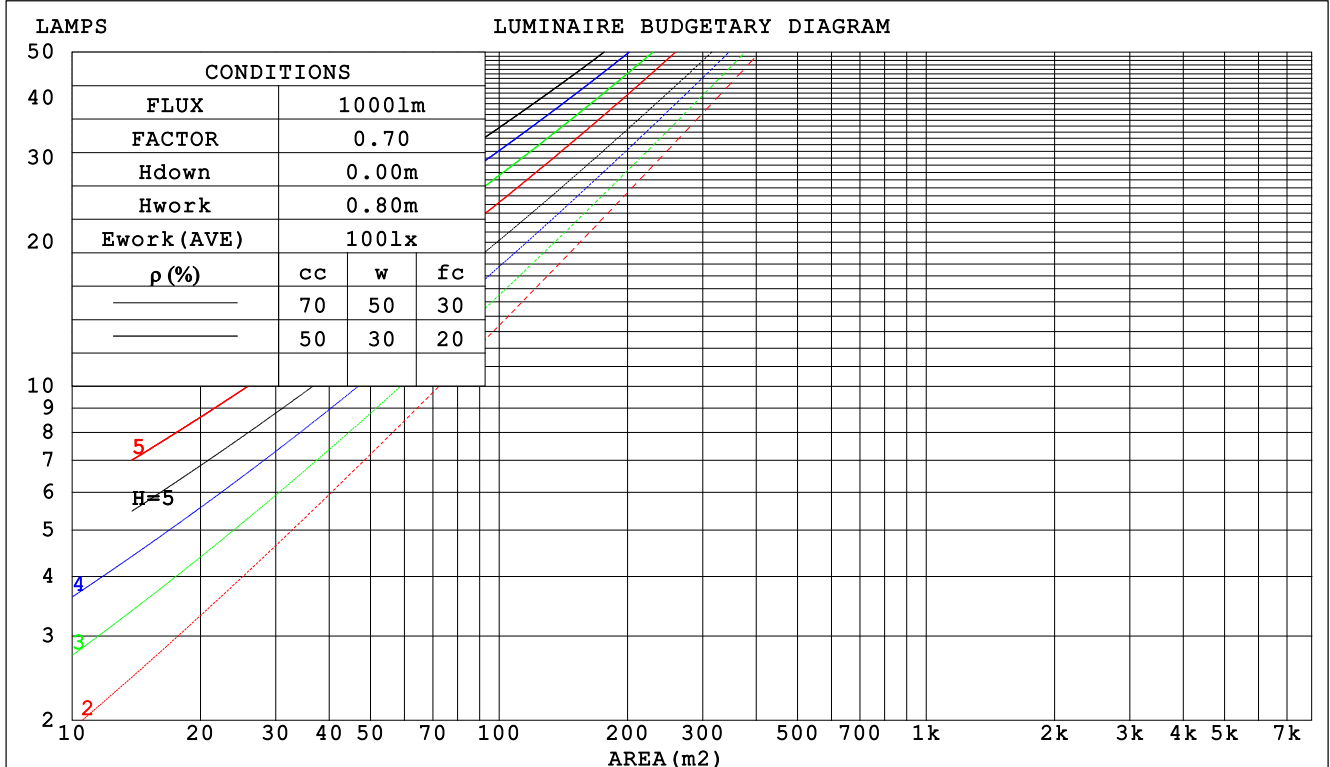
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | 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 | 1.06 | 1.02 | .99 | 1.04 | 1.00 | .97 | .99 | .97 | .94 | .96 | .93 | .91 | .92 | .90 | .88 | .86 |
| 2.0 | .93 | .87 | .82 | .91 | .85 | .81 | .88 | .83 | .79 | .85 | .80 | .77 | .82 | .78 | .75 | .73 |
| 3.0 | .82 | .75 | .68 | .81 | .74 | .68 | .78 | .72 | .67 | .75 | .70 | .66 | .73 | .68 | .64 | .62 |
| 4.0 | .73 | .65 | .58 | .72 | .64 | .58 | .69 | .63 | .57 | .67 | .61 | .56 | .65 | .60 | .56 | .54 |
| 5.0 | .65 | .57 | .50 | .64 | .56 | .50 | .62 | .55 | .50 | .60 | .54 | .49 | .58 | .53 | .49 | .47 |
| 6.0 | .59 | .50 | .44 | .58 | .50 | .44 | .56 | .49 | .44 | .55 | .48 | .43 | .53 | .47 | .43 | .41 |
| 7.0 | .54 | .45 | .39 | .53 | .45 | .39 | .51 | .44 | .39 | .50 | .43 | .38 | .48 | .43 | .38 | .36 |
| 8.0 | .49 | .41 | .35 | .48 | .40 | .35 | .47 | .40 | .35 | .46 | .39 | .34 | .45 | .39 | .34 | .32 |
| 9.0 | .45 | .37 | .31 | .44 | .37 | .31 | .43 | .36 | .31 | .42 | .36 | .31 | .41 | .35 | .31 | .29 |
| 10.0 | .41 | .34 | .29 | .41 | .33 | .28 | .40 | .33 | .28 | .39 | .33 | .28 | .38 | .32 | .28 | .26 |



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | | | | |
| NAME: GHSL-13-U | | | TYPE:Flood Light | | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | | | 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 | .273 | .155 | .049 | .266 | .152 | .048 | .253 | .145 | .046 | .241 | .139 | .045 | .230 | .133 | .043 | | |
| 2.0 | .266 | .146 | .045 | .260 | .143 | .044 | .249 | .138 | .043 | .238 | .134 | .042 | .228 | .129 | .041 | | |
| 3.0 | .252 | .134 | .040 | .246 | .132 | .040 | .236 | .128 | .039 | .227 | .124 | .038 | .218 | .121 | .037 | | |
| 4.0 | .236 | .122 | .036 | .231 | .121 | .036 | .222 | .118 | .035 | .213 | .115 | .035 | .206 | .112 | .034 | | |
| 5.0 | .220 | .112 | .032 | .216 | .111 | .032 | .208 | .108 | .032 | .200 | .106 | .031 | .193 | .103 | .031 | | |
| 6.0 | .205 | .103 | .029 | .202 | .102 | .029 | .195 | .100 | .029 | .188 | .098 | .029 | .182 | .096 | .028 | | |
| 7.0 | .192 | .095 | .027 | .189 | .094 | .027 | .183 | .092 | .027 | .177 | .091 | .026 | .171 | .089 | .026 | | |
| 8.0 | .180 | .088 | .025 | .177 | .087 | .025 | .172 | .086 | .024 | .166 | .084 | .024 | .161 | .083 | .024 | | |
| 9.0 | .170 | .082 | .023 | .167 | .081 | .023 | .162 | .080 | .023 | .157 | .079 | .023 | .152 | .077 | .022 | | |
| 10.0 | .160 | .077 | .021 | .158 | .076 | .021 | .153 | .075 | .021 | .149 | .074 | .021 | .144 | .073 | .021 | | |

| 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 | .178 | .156 | .137 | .152 | .134 | .118 | .104 | .092 | .082 | .060 | .053 | .048 | .019 | .017 | .015 | |
| 2.0 | .169 | .132 | .101 | .145 | .114 | .087 | .099 | .079 | .061 | .057 | .046 | .036 | .018 | .015 | .012 | |
| 3.0 | .161 | .114 | .077 | .138 | .098 | .067 | .095 | .068 | .047 | .055 | .040 | .028 | .018 | .013 | .009 | |
| 4.0 | .153 | .101 | .060 | .132 | .087 | .052 | .091 | .061 | .037 | .052 | .036 | .022 | .017 | .012 | .007 | |
| 5.0 | .146 | .090 | .049 | .126 | .078 | .042 | .087 | .055 | .030 | .050 | .032 | .018 | .016 | .010 | .006 | |
| 6.0 | .139 | .082 | .040 | .120 | .071 | .035 | .083 | .050 | .025 | .048 | .029 | .015 | .015 | .010 | .005 | |
| 7.0 | .133 | .075 | .034 | .114 | .065 | .030 | .079 | .045 | .021 | .046 | .027 | .013 | .015 | .009 | .004 | |
| 8.0 | .127 | .069 | .029 | .109 | .060 | .026 | .075 | .042 | .018 | .044 | .025 | .011 | .014 | .008 | .004 | |
| 9.0 | .121 | .064 | .026 | .104 | .056 | .022 | .072 | .039 | .016 | .042 | .023 | .009 | .014 | .008 | .003 | |
| 10.0 | .115 | .060 | .023 | .100 | .052 | .020 | .069 | .037 | .014 | .040 | .022 | .008 | .013 | .007 | .003 | |

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Gu
 Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | | | | | | | | | |
| NAME: GHSL-13-U | | | | | TYPE:Flood Light | | | WEIGHT:N/A | | |
| SPEC.:80W/1600K/110° | | | | | 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 | 22.4 | 23.8 | 22.6 | 24.0 | 24.2 | 22.2 | 23.6 | 22.4 | 23.8 | 24.0 |
| 3H | 23.4 | 24.8 | 23.7 | 25.0 | 25.2 | 23.3 | 24.6 | 23.6 | 24.8 | 25.1 |
| 4H | 23.7 | 24.9 | 24.0 | 25.2 | 25.4 | 23.5 | 24.8 | 23.8 | 25.0 | 25.3 |
| 6H | 23.7 | 24.8 | 24.0 | 25.1 | 25.4 | 23.5 | 24.6 | 23.8 | 24.9 | 25.2 |
| 8H | 23.6 | 24.8 | 23.9 | 25.0 | 25.3 | 23.4 | 24.6 | 23.7 | 24.8 | 25.1 |
| 12H | 23.6 | 24.7 | 23.9 | 24.9 | 25.2 | 23.4 | 24.5 | 23.7 | 24.7 | 25.0 |
| 4H 2H | 22.9 | 24.2 | 23.2 | 24.4 | 24.7 | 22.8 | 24.0 | 23.1 | 24.3 | 24.5 |
| 3H | 24.1 | 25.2 | 24.5 | 25.5 | 25.8 | 24.0 | 25.1 | 24.4 | 25.4 | 25.7 |
| 4H | 24.4 | 25.4 | 24.8 | 25.7 | 26.1 | 24.3 | 25.3 | 24.7 | 25.6 | 25.9 |
| 6H | 24.5 | 25.4 | 24.9 | 25.7 | 26.1 | 24.3 | 25.2 | 24.7 | 25.5 | 25.9 |
| 8H | 24.4 | 25.3 | 24.9 | 25.6 | 26.0 | 24.2 | 25.1 | 24.7 | 25.4 | 25.8 |
| 12H | 24.4 | 25.2 | 24.8 | 25.5 | 25.9 | 24.2 | 24.9 | 24.6 | 25.3 | 25.7 |
| 8H 4H | 24.5 | 25.4 | 25.0 | 25.7 | 26.1 | 24.4 | 25.2 | 24.8 | 25.6 | 26.0 |
| 6H | 24.7 | 25.3 | 25.1 | 25.7 | 26.1 | 24.4 | 25.1 | 24.9 | 25.5 | 25.9 |
| 8H | 24.6 | 25.2 | 25.1 | 25.6 | 26.1 | 24.4 | 25.0 | 24.8 | 25.4 | 25.9 |
| 12H | 24.6 | 25.1 | 25.1 | 25.6 | 26.0 | 24.4 | 24.9 | 24.8 | 25.3 | 25.8 |
| 12H 4H | 24.5 | 25.3 | 24.9 | 25.6 | 26.0 | 24.4 | 25.1 | 24.8 | 25.5 | 25.9 |
| 6H | 24.6 | 25.2 | 25.1 | 25.6 | 26.1 | 24.4 | 25.0 | 24.9 | 25.4 | 25.9 |
| 8H | 24.6 | 25.1 | 25.1 | 25.6 | 26.0 | 24.4 | 24.9 | 24.8 | 25.3 | 25.8 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.4 | | | | |
| 1.5H | + 0.3 / - 0.5 | | | | | + 0.2 / - 0.5 | | | | |
| 2.0H | + 0.4 / - 0.5 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117, 8731 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.5$)
Area: 0.024 m²

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

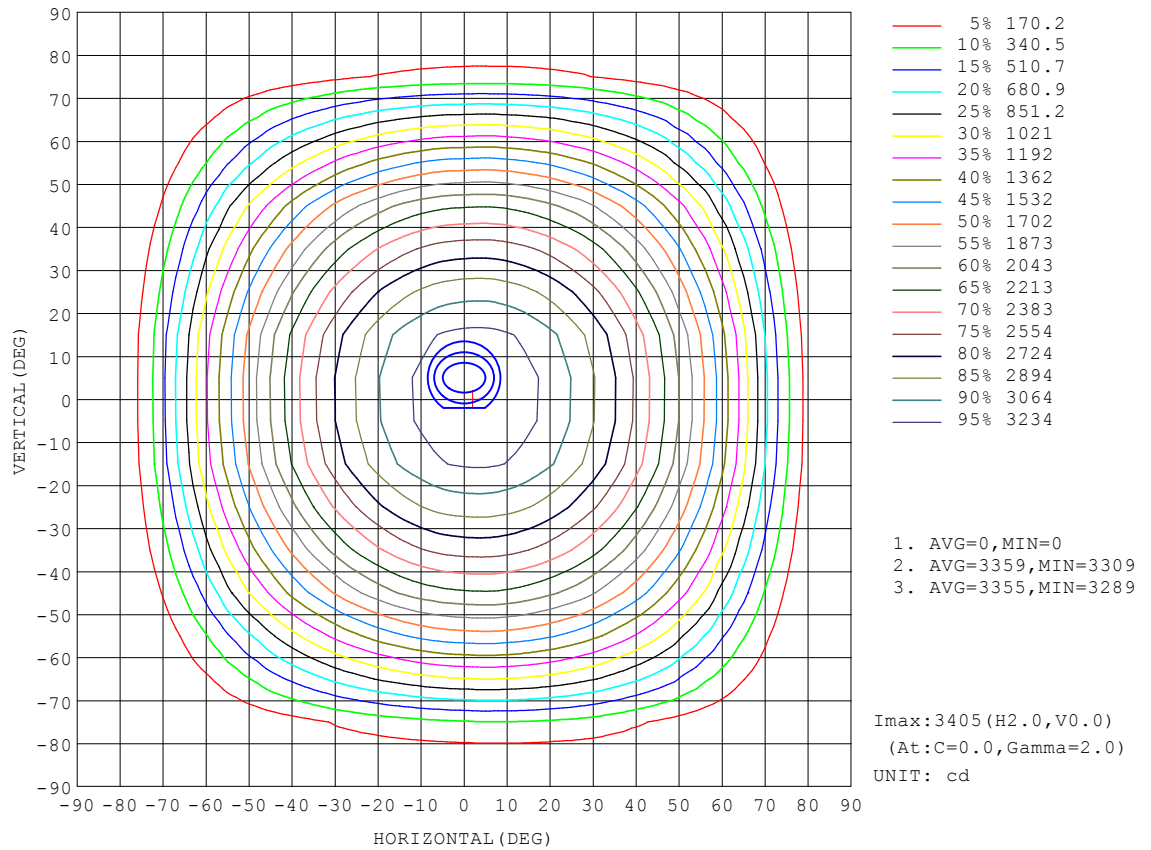
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 60 | 48 | 42 | 59 | 48 | 42 | 58 | 48 | 41 | 35 |
| 0.80 | 70 | 59 | 52 | 69 | 59 | 52 | 67 | 58 | 51 | 45 |
| 1.00 | 79 | 68 | 61 | 78 | 68 | 61 | 75 | 69 | 61 | 54 |
| 1.25 | 86 | 76 | 69 | 84 | 75 | 69 | 82 | 74 | 68 | 61 |
| 1.50 | 91 | 82 | 75 | 89 | 81 | 75 | 86 | 79 | 74 | 67 |
| 2.00 | 97 | 90 | 84 | 96 | 88 | 83 | 92 | 86 | 82 | 74 |
| 2.50 | 101 | 94 | 89 | 99 | 93 | 88 | 95 | 90 | 86 | 78 |
| 3.00 | 104 | 98 | 93 | 102 | 97 | 92 | 98 | 94 | 90 | 82 |
| 4.00 | 108 | 103 | 99 | 106 | 101 | 97 | 101 | 98 | 95 | 86 |
| 5.00 | 110 | 106 | 102 | 108 | 104 | 101 | 103 | 100 | 98 | 89 |
| 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:2025-03-14

$V(B)$ 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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

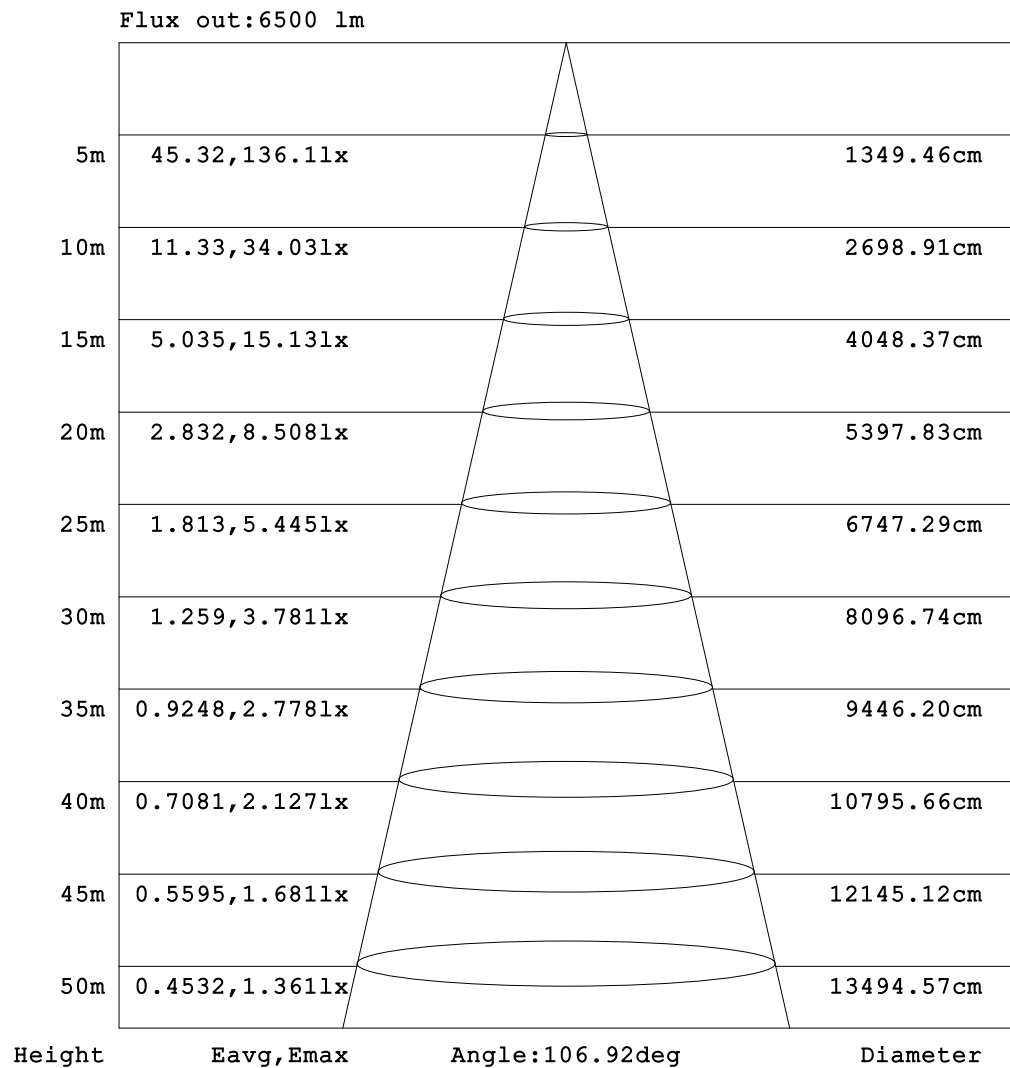


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |



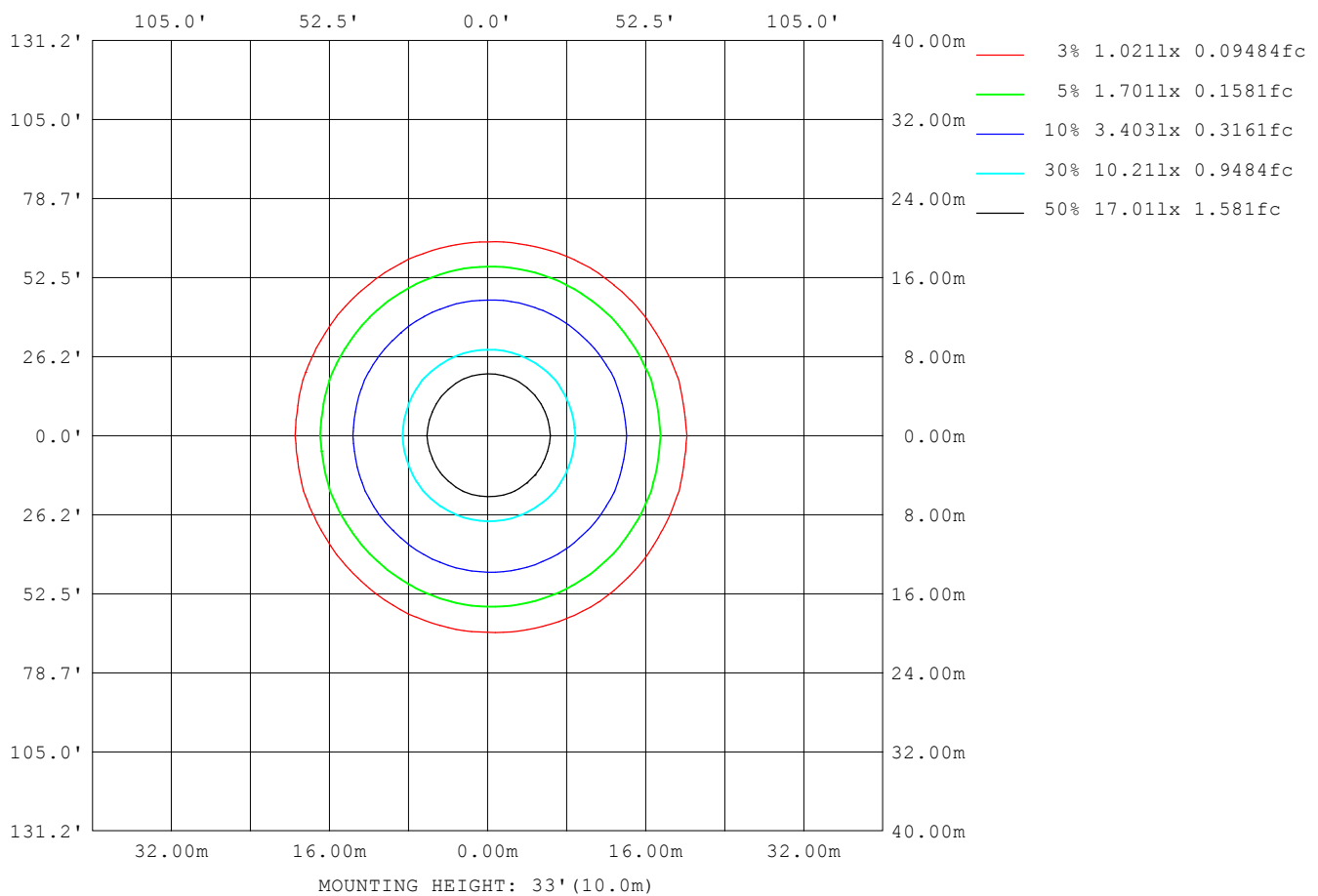
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gu
Test Date:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | 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:2025-03-14

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:120.90V I:0.6590A P:79.464W PF:0.9973 Freq:59.98Hz Lamp Flux:8731.2x1 lm | | |
| NAME: GHSL-13-U | TYPE:Flood Light | WEIGHT:N/A |
| SPEC.:80W/1600K/110° | DIM.: 190*150mm | SERIAL No.:N/A |
| MFR.: Grin Industrial Co., Ltd. | SUR.:N/A | Shielding Angle:N/A |

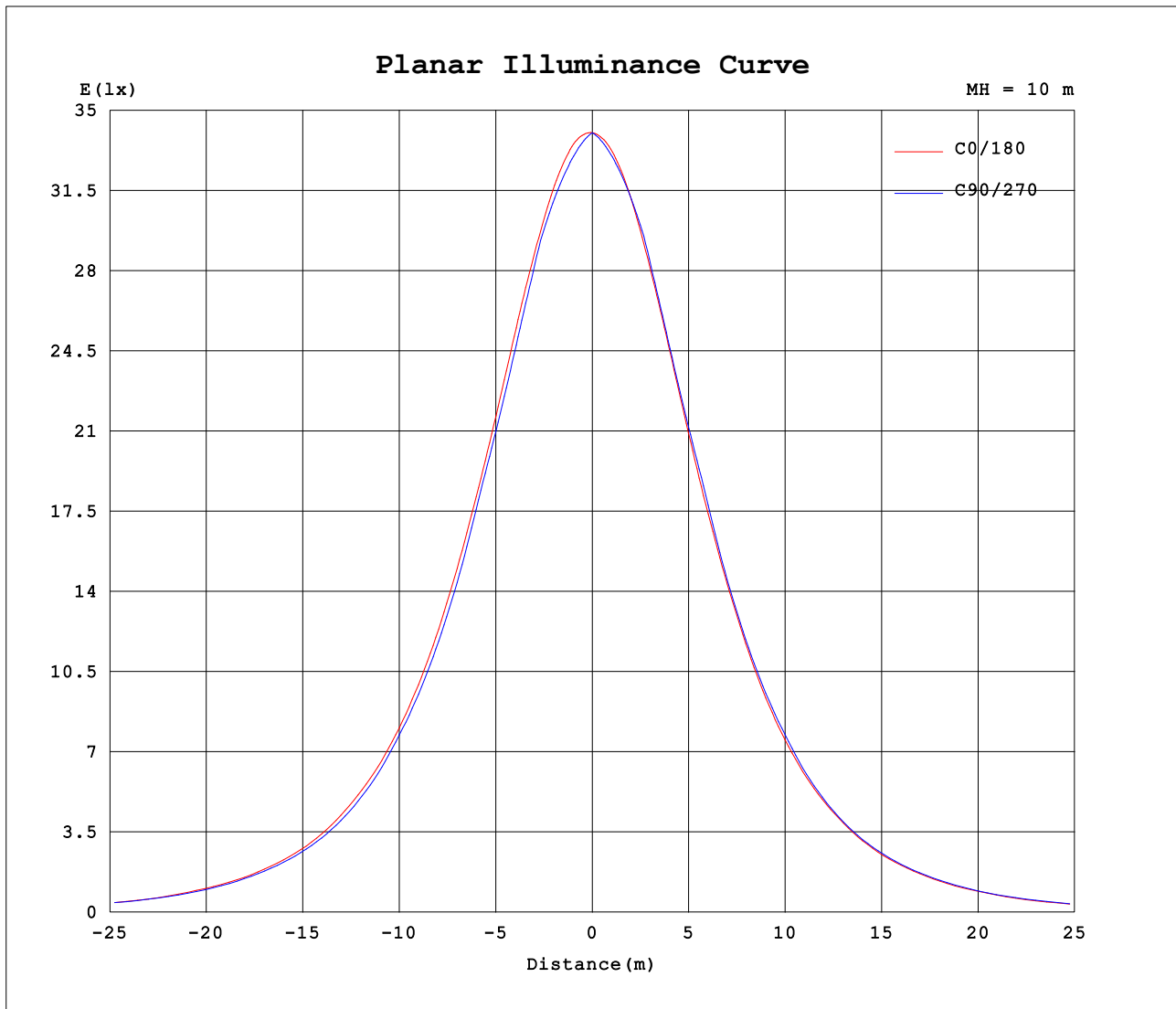
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 96787 |
| L_0~180 (75) av | 47712 |
| L_0~180 (85) av | 2919 |
| L_90~270 (65) av | 96045 |
| L_90~270 (75) av | 44110 |
| L_90~270 (85) av | 0 |
| L_45 (65) av | 97616 |
| L_45 (75) av | 57116 |
| L_45 (85) av | 0 |

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:2025-03-14

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:2025-03-14

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:
```