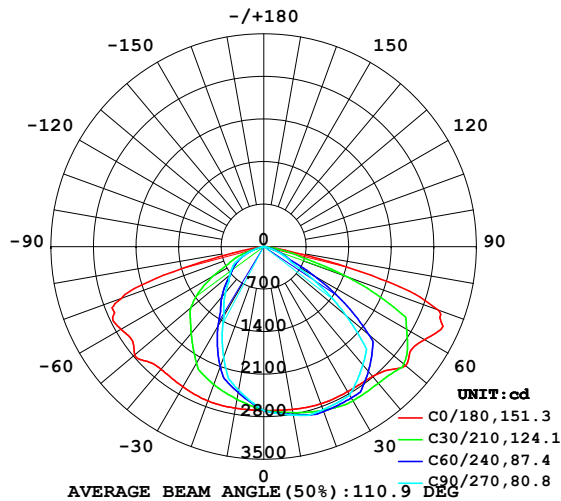


## LUMINAIRE PHOTOMETRIC TEST REPORT

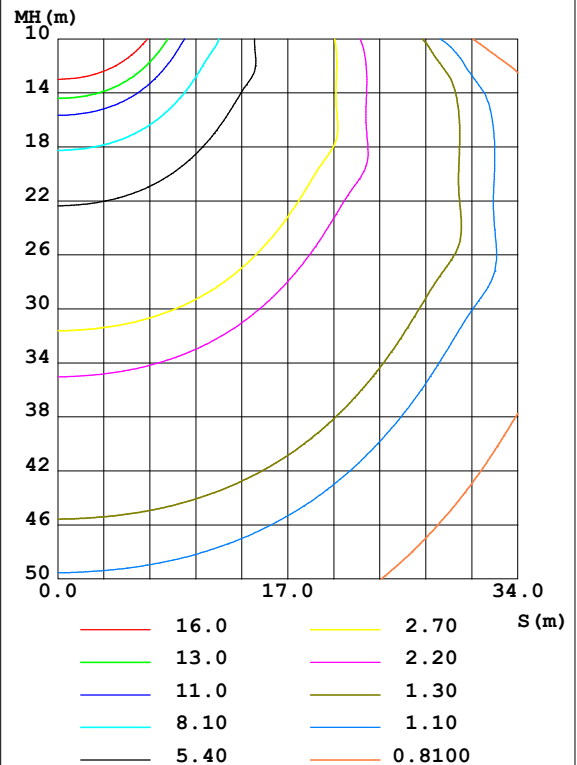
|   |                  |                     |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | 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: 103.90 lm/W |        |                        |          |
|------------------|-----------|-----------------------------------|--------|------------------------|----------|
| MODEL            | GHSL-13-U | Imax(cd)                          | 3404   | S/MH(C0/180)           | 1.50     |
| NOMINAL POWER(W) | 80W       | LOR(%)                            | 100.0  | S/MH(C90/270)          | 0.86     |
| RATED VOLTAGE(V) | 120       | TOTAL FLUX(lm)                    | 8296.9 | $\eta$ UP,DN(C0-180)   | 0.0,60.8 |
| NOMINAL FLUX(lm) | 8296.9    | CIE CLASS                         | DIRECT | $\eta$ UP,DN(C180-360) | 0.0,39.2 |
| LAMPS INSIDE     | 1         | $\eta$ up(%)                      | 0.0    | CIBSE SHR NOM          | 1.50     |
| TEST VOLTAGE(V)  | 120       | $\eta$ down(%)                    | 100.0  | CIBSE SHR MAX          | 1.50     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 2720                  | 2792  | 2814  | 2776  | 2699  | 2486  | 2398  | 2497  | 0- 10    | 254.0       | 254.0        | 3.06, 3.06 |
| 20       | 2751                  | 2904  | 2855  | 2862  | 2702  | 2292  | 1936  | 2312  | 10- 20   | 740.0       | 994.0        | 12, 12     |
| 30       | 2757                  | 2911  | 2824  | 2843  | 2663  | 1810  | 1312  | 1842  | 20- 30   | 1141        | 2135         | 25.7, 25.7 |
| 40       | 2788                  | 2886  | 2538  | 2785  | 2634  | 1329  | 982.0 | 1368  | 30- 40   | 1421        | 3556         | 42.9, 42.9 |
| 50       | 3046                  | 2584  | 1778  | 2442  | 2773  | 927.5 | 732.3 | 973.5 | 40- 50   | 1592        | 5148         | 62.1, 62.1 |
| 60       | 3059                  | 1665  | 542.1 | 1526  | 2716  | 533.5 | 563.3 | 573.0 | 50- 60   | 1504        | 6652         | 80.2, 80.2 |
| 70       | 3063                  | 308.8 | 228.5 | 259.8 | 2496  | 251.3 | 220.4 | 278.0 | 60- 70   | 1156        | 7808         | 94.1, 94.1 |
| 80       | 360.7                 | 39.80 | 0     | 30.69 | 207.3 | 17.50 | 0     | 18.79 | 70- 80   | 472.6       | 8280         | 99.8, 99.8 |
| 90       | 3.597                 | 0     | 0     | 0     | 4.619 | 0     | 0     | 0     | 80- 90   | 16.38       | 8297         | 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): 4338.9 lm

%lum = 52.3%

%lamp = 52.3%

Conical surface Flux(120deg): 6651.9 lm

%lum = 80.2%

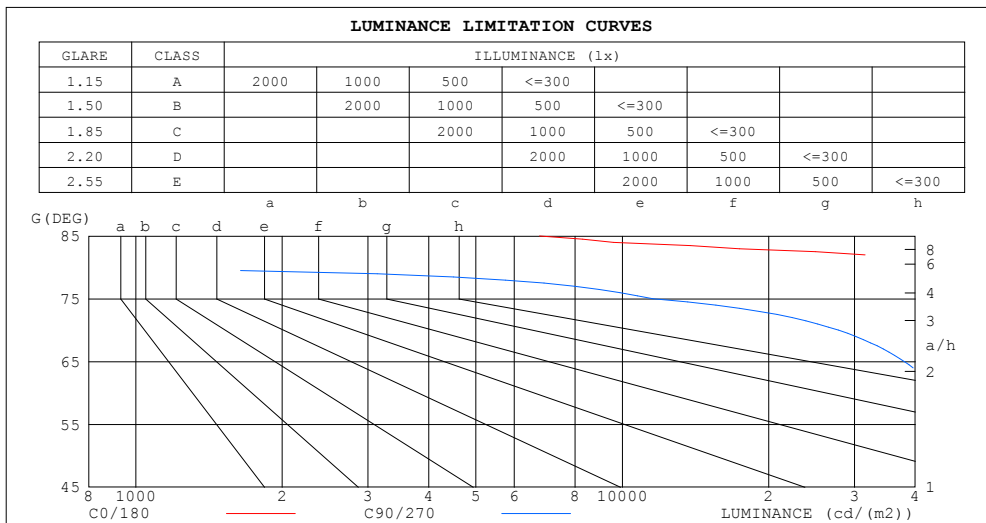
%lamp = 80.2%

$H(\beta)$  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:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |



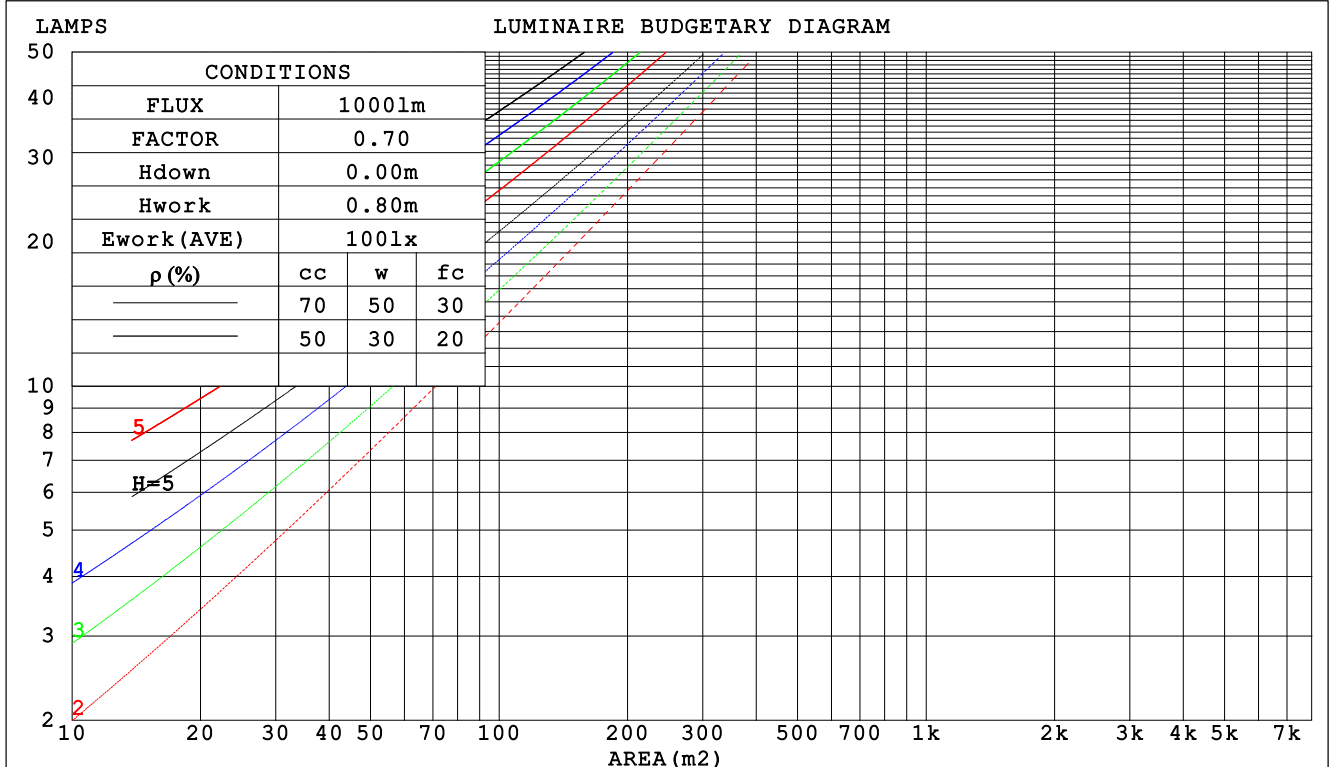
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-03-14

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |                  |                     |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |

| $\rho_{cc}$           | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-----------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$              | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$           | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR                   | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| RCR:Room Cavity Ratio |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0                   | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0                   | 1.05                            | 1.01 | .97  | 1.02 | .99  | .95  | .98  | .95  | .92  | .94  | .92  | .90  | .91  | .89  | .87  | .85 |
| 2.0                   | .91                             | .84  | .79  | .89  | .83  | .78  | .86  | .81  | .76  | .82  | .78  | .74  | .79  | .76  | .73  | .70 |
| 3.0                   | .80                             | .72  | .65  | .78  | .71  | .65  | .75  | .69  | .63  | .72  | .67  | .62  | .70  | .65  | .61  | .59 |
| 4.0                   | .70                             | .61  | .55  | .69  | .61  | .54  | .66  | .59  | .54  | .64  | .58  | .53  | .62  | .57  | .52  | .50 |
| 5.0                   | .63                             | .53  | .47  | .61  | .53  | .47  | .59  | .52  | .46  | .57  | .51  | .45  | .55  | .50  | .45  | .43 |
| 6.0                   | .56                             | .47  | .41  | .55  | .47  | .40  | .53  | .46  | .40  | .52  | .45  | .40  | .50  | .44  | .39  | .37 |
| 7.0                   | .51                             | .42  | .36  | .50  | .41  | .35  | .48  | .41  | .35  | .47  | .40  | .35  | .45  | .39  | .35  | .33 |
| 8.0                   | .46                             | .37  | .32  | .45  | .37  | .31  | .44  | .37  | .31  | .43  | .36  | .31  | .42  | .35  | .31  | .29 |
| 9.0                   | .42                             | .34  | .28  | .42  | .34  | .28  | .40  | .33  | .28  | .39  | .33  | .28  | .38  | .32  | .28  | .26 |
| 10.0                  | .39                             | .31  | .26  | .38  | .31  | .25  | .37  | .30  | .25  | .36  | .30  | .25  | .35  | .29  | .25  | .23 |



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:

## WEC AND CCEC

|   |  |  |                  |  |                     |
|---|--|--|------------------|--|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |  |  |                  |  |                     |
| NAME: GHSL-13-U   |  |  | TYPE:Flood Light |  | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  |  |  | 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  | .293                  | .167 | .053 | .286 | .163 | .052 | .273                             | .156 | .050 | .261 | .150 | .048 | .249 | .145 | .047 |   |  |
| 2.0  | .285                  | .156 | .048 | .279 | .154 | .047 | .267                             | .149 | .046 | .256 | .144 | .045 | .246 | .139 | .044 |   |  |
| 3.0  | .268                  | .142 | .043 | .262 | .140 | .042 | .252                             | .136 | .041 | .242 | .133 | .041 | .233 | .129 | .040 |   |  |
| 4.0  | .249                  | .129 | .038 | .244 | .128 | .038 | .235                             | .125 | .037 | .226 | .122 | .037 | .218 | .119 | .036 |   |  |
| 5.0  | .231                  | .118 | .034 | .227 | .116 | .034 | .219                             | .114 | .034 | .211 | .111 | .033 | .204 | .109 | .033 |   |  |
| 6.0  | .215                  | .108 | .031 | .211 | .107 | .031 | .204                             | .104 | .030 | .197 | .102 | .030 | .191 | .100 | .030 |   |  |
| 7.0  | .200                  | .099 | .028 | .197 | .098 | .028 | .190                             | .096 | .028 | .184 | .094 | .027 | .178 | .093 | .027 |   |  |
| 8.0  | .187                  | .091 | .026 | .184 | .091 | .026 | .178                             | .089 | .025 | .173 | .088 | .025 | .168 | .086 | .025 |   |  |
| 9.0  | .175                  | .085 | .024 | .173 | .084 | .024 | .167                             | .083 | .023 | .163 | .081 | .023 | .158 | .080 | .023 |   |  |
| 10.0 | .165                  | .079 | .022 | .162 | .078 | .022 | .158                             | .077 | .022 | .153 | .076 | .022 | .149 | .075 | .022 |   |  |

| 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  | .179                  | .156 | .136 | .153 | .134 | .117 | .105                                       | .092 | .081 | .060 | .053 | .047 | .019 | .017 | .015 |   |
| 2.0  | .171                  | .132 | .099 | .147 | .114 | .085 | .101                                       | .079 | .060 | .058 | .046 | .035 | .019 | .015 | .011 |   |
| 3.0  | .164                  | .114 | .075 | .141 | .099 | .065 | .097                                       | .068 | .045 | .056 | .040 | .027 | .018 | .013 | .009 |   |
| 4.0  | .157                  | .101 | .058 | .135 | .087 | .051 | .093                                       | .061 | .036 | .054 | .036 | .021 | .017 | .012 | .007 |   |
| 5.0  | .150                  | .091 | .047 | .128 | .078 | .041 | .089                                       | .055 | .029 | .051 | .032 | .017 | .017 | .010 | .006 |   |
| 6.0  | .143                  | .082 | .039 | .123 | .071 | .034 | .085                                       | .050 | .024 | .049 | .029 | .014 | .016 | .010 | .005 |   |
| 7.0  | .136                  | .075 | .033 | .117 | .065 | .029 | .081                                       | .046 | .020 | .047 | .027 | .012 | .015 | .009 | .004 |   |
| 8.0  | .130                  | .070 | .029 | .112 | .060 | .025 | .077                                       | .042 | .018 | .045 | .025 | .011 | .015 | .008 | .003 |   |
| 9.0  | .123                  | .065 | .025 | .106 | .056 | .022 | .074                                       | .039 | .016 | .043 | .023 | .009 | .014 | .008 | .003 |   |
| 10.0 | .118                  | .060 | .022 | .102 | .052 | .019 | .070                                       | .037 | .014 | .041 | .022 | .008 | .013 | .007 | .003 |   |

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:

UGR(Unified Glare Rating) Table

|   |                  |      |      |      |                  |                |      |                     |      |      |
|---|------------------|------|------|------|------------------|----------------|------|---------------------|------|------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |      |      |      |                  |                |      |                     |      |      |
| NAME: GHSL-13-U   |                  |      |      |      | TYPE:Flood Light |                |      | WEIGHT:N/A          |      |      |
| SPEC.:80W/1600K/T2  |                  |      |      |      | 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   | 27.2             | 28.7 | 27.4 | 28.9 | 29.1             | 21.2           | 22.7 | 21.5                | 22.9 | 23.1 |
| 3H  | 30.5             | 31.9 | 30.8 | 32.1 | 32.4             | 21.3           | 22.7 | 21.6                | 22.9 | 23.1 |
| 4H  | 31.3             | 32.7 | 31.7 | 32.9 | 33.2             | 21.2           | 22.5 | 21.5                | 22.8 | 23.0 |
| 6H  | 31.4             | 32.7 | 31.8 | 33.0 | 33.3             | 21.1           | 22.4 | 21.4                | 22.6 | 22.9 |
| 8H  | 31.4             | 32.6 | 31.7 | 32.9 | 33.2             | 21.0           | 22.3 | 21.4                | 22.5 | 22.8 |
| 12H   | 31.3             | 32.5 | 31.7 | 32.8 | 33.1             | 21.0           | 22.2 | 21.3                | 22.5 | 22.8 |
| 4H 2H   | 27.2             | 28.6 | 27.5 | 28.8 | 29.1             | 22.4           | 23.7 | 22.7                | 24.0 | 24.2 |
| 3H  | 30.6             | 31.8 | 31.0 | 32.1 | 32.4             | 22.4           | 23.6 | 22.8                | 23.9 | 24.2 |
| 4H  | 31.6             | 32.6 | 32.0 | 33.0 | 33.3             | 22.4           | 23.5 | 22.8                | 23.8 | 24.1 |
| 6H  | 31.7             | 32.7 | 32.1 | 33.0 | 33.4             | 22.3           | 23.2 | 22.7                | 23.6 | 24.0 |
| 8H  | 31.7             | 32.6 | 32.1 | 32.9 | 33.3             | 22.3           | 23.1 | 22.7                | 23.5 | 23.9 |
| 12H   | 31.7             | 32.5 | 32.1 | 32.8 | 33.2             | 22.2           | 23.0 | 22.6                | 23.4 | 23.8 |
| 8H 4H   | 31.5             | 32.3 | 31.9 | 32.7 | 33.1             | 22.9           | 23.8 | 23.3                | 24.2 | 24.5 |
| 6H  | 31.6             | 32.4 | 32.1 | 32.8 | 33.2             | 22.8           | 23.6 | 23.3                | 24.0 | 24.4 |
| 8H  | 31.6             | 32.3 | 32.1 | 32.7 | 33.1             | 22.8           | 23.4 | 23.3                | 23.9 | 24.3 |
| 12H   | 31.6             | 32.1 | 32.1 | 32.6 | 33.1             | 22.8           | 23.3 | 23.2                | 23.8 | 24.2 |
| 12H 4H  | 31.4             | 32.2 | 31.8 | 32.6 | 33.0             | 22.9           | 23.7 | 23.4                | 24.1 | 24.5 |
| 6H  | 31.6             | 32.2 | 32.1 | 32.7 | 33.1             | 22.9           | 23.5 | 23.3                | 23.9 | 24.4 |
| 8H  | 31.6             | 32.1 | 32.1 | 32.6 | 33.1             | 22.8           | 23.4 | 23.3                | 23.8 | 24.3 |
| Variations with the observer position at spacings:                              |                  |      |      |      |                  |                |      |                     |      |      |
| S = 1.0H  | + 0.1 / - 0.3    |      |      |      |                  | + 0.8 / - 1.0  |      |                     |      |      |
| 1.5H  | + 0.4 / - 0.9    |      |      |      |                  | + 0.9 / - 1.2  |      |                     |      |      |
| 2.0H  | + 0.3 / - 0.5    |      |      |      |                  | + 2.0 / - 5.0  |      |                     |      |      |

CIE Pub.117, 8297 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 7.4)  
Area: 0.024 m2

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:

## UTILIZATION FACTORS TABLE

|   |                  |                     |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |

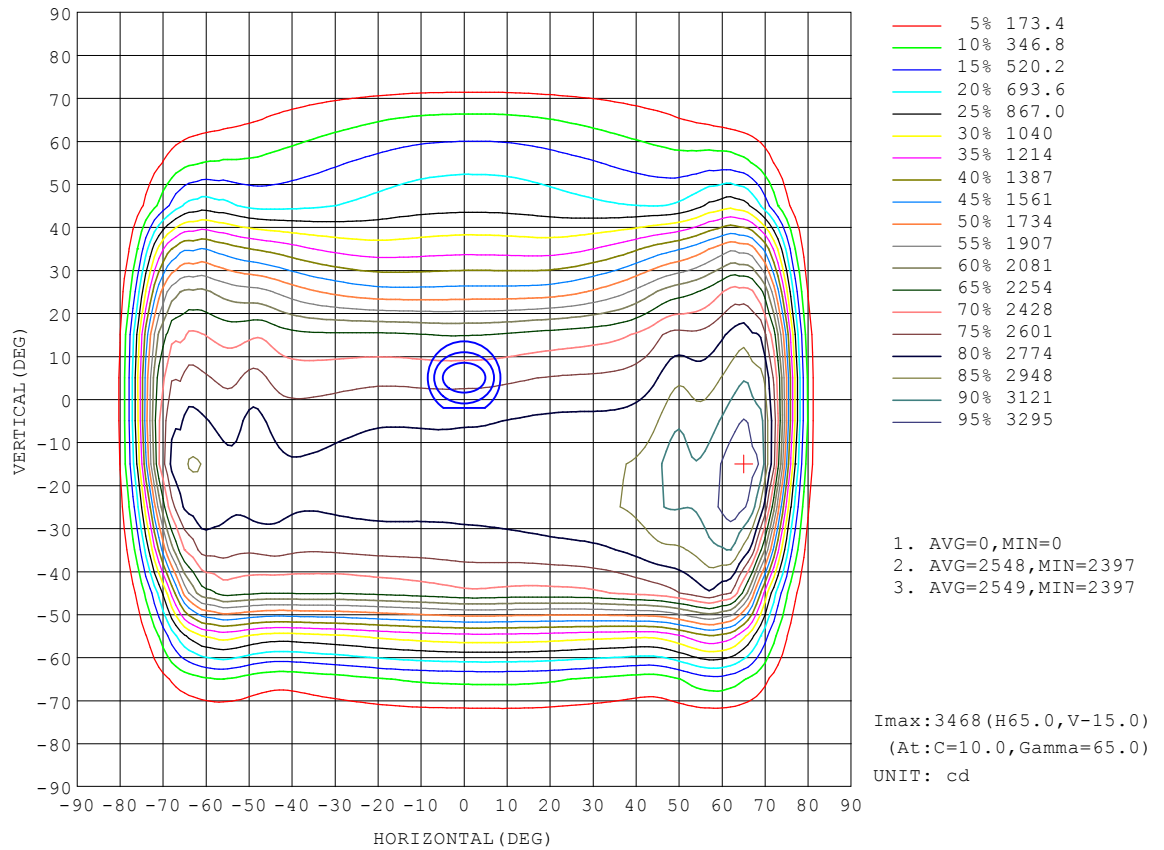
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 56   | 44  | 37        | 55  | 44  | 37  | 54  | 44            | 37  | 30     |
| 0.80                             | 67   | 55  | 47        | 66  | 54  | 47  | 64  | 54            | 47  | 40     |
| 1.00                             | 75   | 64  | 57        | 74  | 64  | 57  | 72  | 65            | 56  | 49     |
| 1.25                             | 83   | 72  | 65        | 81  | 72  | 65  | 79  | 70            | 64  | 57     |
| 1.50                             | 88   | 78  | 71        | 86  | 77  | 71  | 83  | 76            | 70  | 62     |
| 2.00                             | 95   | 87  | 80        | 93  | 86  | 80  | 90  | 83            | 78  | 70     |
| 2.50                             | 99   | 92  | 86        | 97  | 90  | 85  | 93  | 88            | 83  | 75     |
| 3.00                             | 103  | 96  | 91        | 101 | 95  | 90  | 97  | 92            | 87  | 79     |
| 4.00                             | 107  | 101 | 97        | 104 | 100 | 96  | 100 | 96            | 93  | 84     |
| 5.00                             | 109  | 105 | 101       | 107 | 103 | 99  | 102 | 99            | 96  | 87     |
| 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:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |



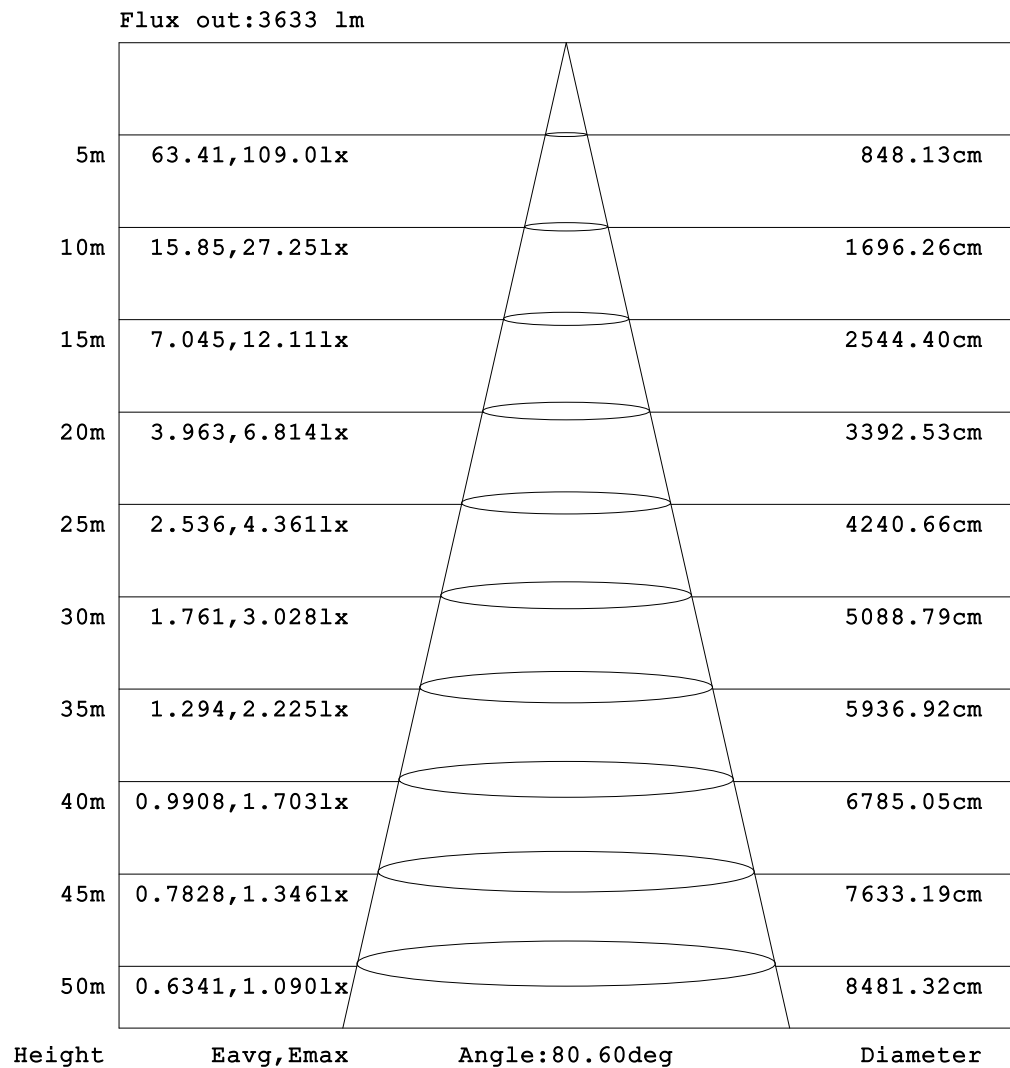
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-03-14

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:



## AAI Figure

|   |                  |                     |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |



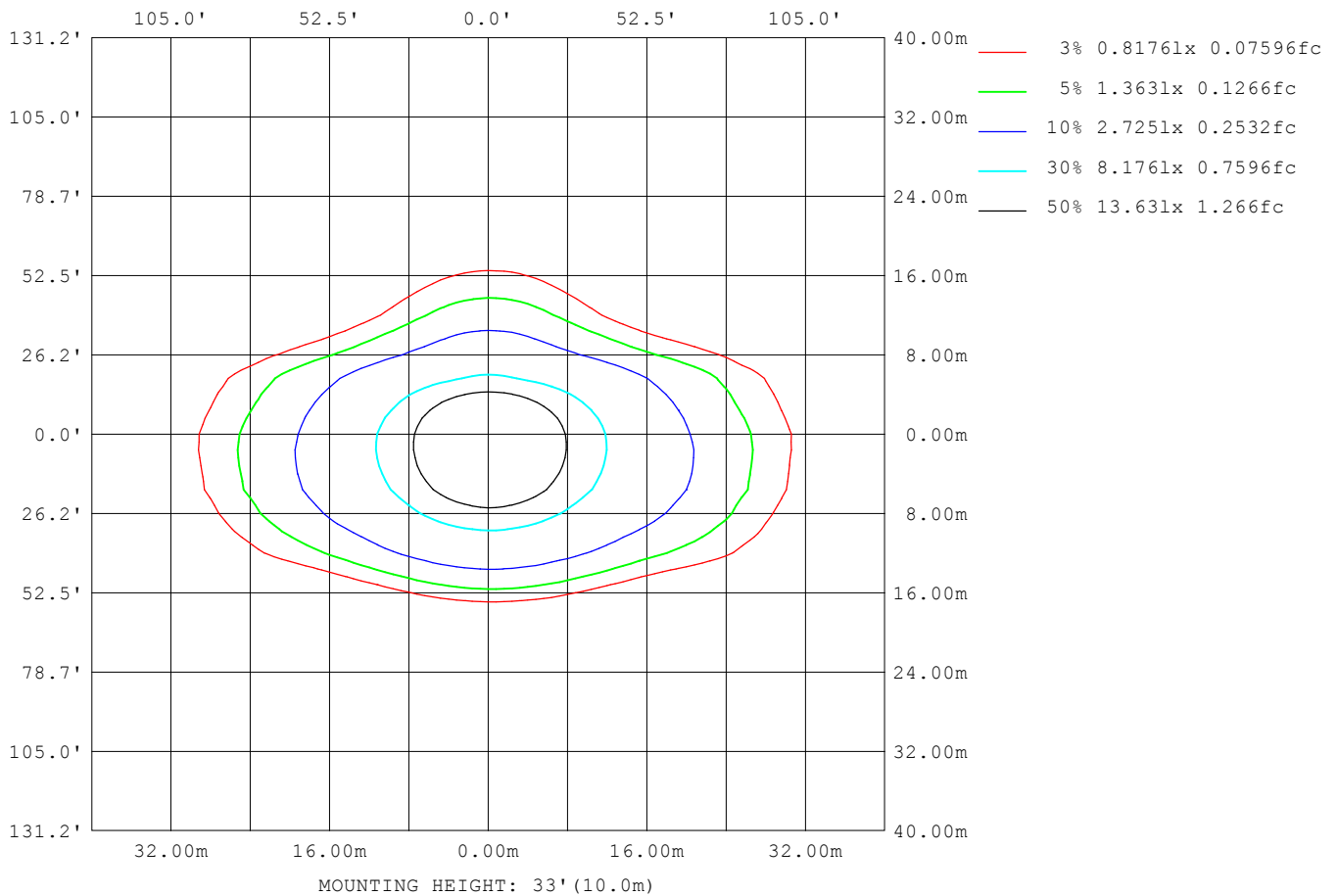
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) 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:

## ISOLUX DIAGRAM

|   |                  |                     |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |



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:

## LED Avg.L Report

|   |                  |                     |
|---|------------------|---------------------|
| Test:U:120.90V I:0.6622A P:79.853W PF:0.9974 Freq:59.98Hz Lamp Flux:8296.9x1 lm |                  |                     |
| NAME: GHSL-13-U   | TYPE:Flood Light | WEIGHT:N/A          |
| SPEC.:80W/1600K/T2  | DIM.: 190*150mm  | SERIAL No.:N/A      |
| MFR.: Grin Industrial Co., Ltd.   | SUR.:N/A         | Shielding Angle:N/A |

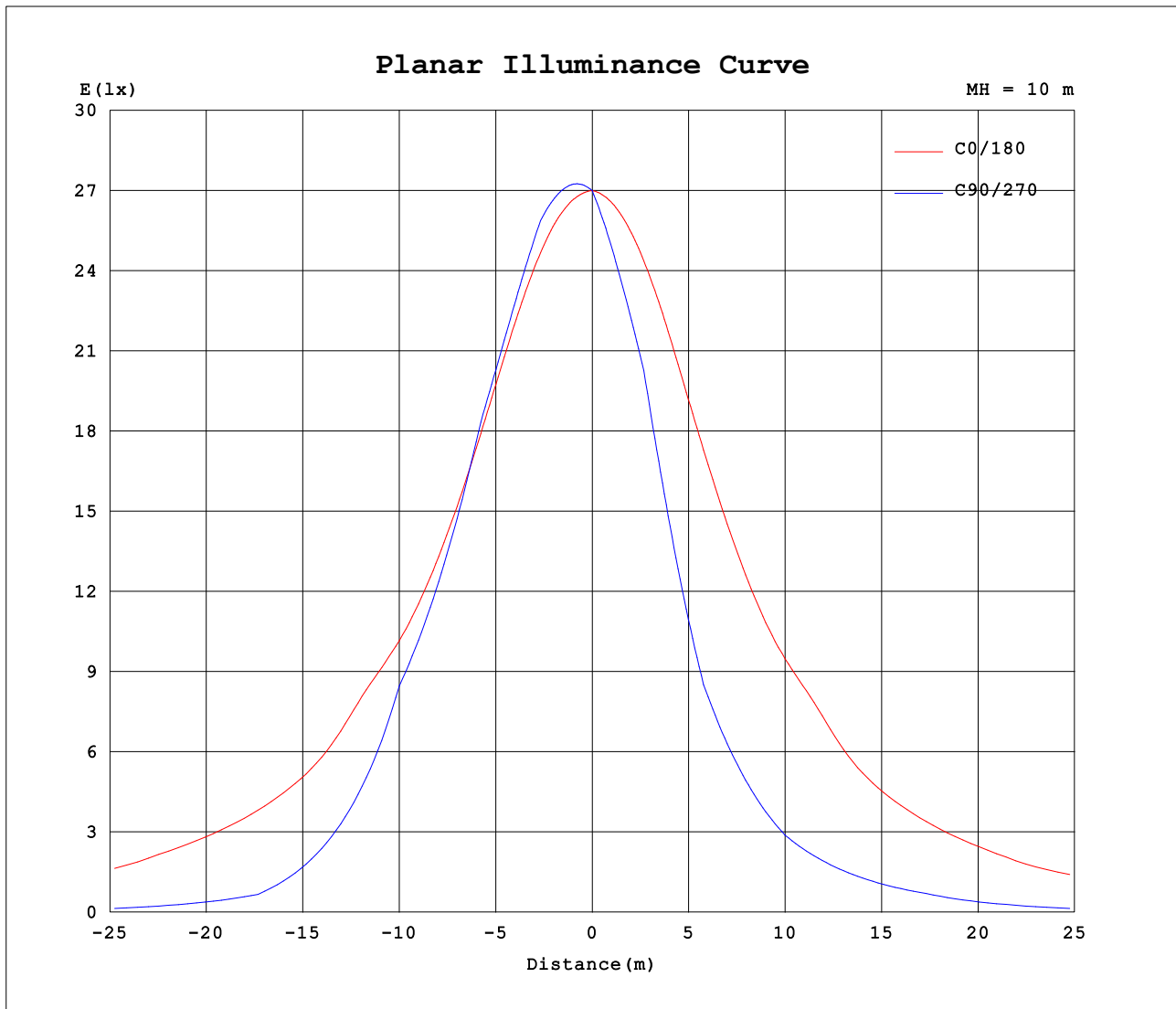
| AvgL             | cd/m2  |
|------------------|--------|
| L_0~180 (65) av  | 294041 |
| L_0~180 (75) av  | 256712 |
| L_0~180 (85) av  | 5898   |
| L_90~270 (65) av | 38310  |
| L_90~270 (75) av | 9716   |
| L_90~270 (85) av | 0      |
| L_45 (65) av     | 59994  |
| L_45 (75) av     | 23252  |
| 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: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( $\beta$ ) 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:

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:
```