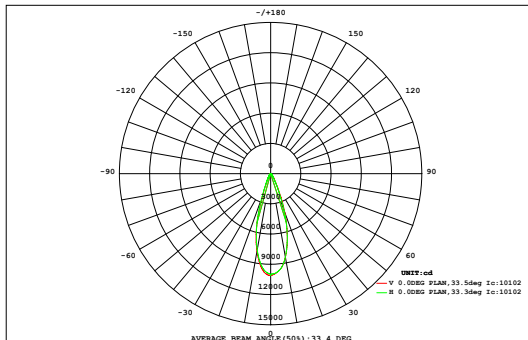


## LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:221.2V I:0.2360A P:51.17W PF:0.9803 Lamp Flux:3879.53x1 lm |       |                  |
| NAME: Garnet - 288100                                             | TYPE: | WEIGHT:          |
| SPEC.:50W/36D/3000K                                               | DIM.: | SERIAL No.:      |
| MFR.: BBT-LIGHTING                                                | SUR.: | Shielding Angle: |



| DATA OF LAMP      |          | Eff:75.81lm/W    |          |
|-------------------|----------|------------------|----------|
| MODEL             | 502307-1 | Imax (cd)        | 10102    |
| NOMINAL POWER (W) | 50W      | AVAILABILITY (%) | 79.1     |
| RATED VOLTAGE (V) | 220      | Avai. FLUX (lm)  | 3068     |
| NOMINAL FLUX (lm) | 3879.53  | LOR (%)          | 100.0    |
| LAMPS INSIDE      | 1        | TOTAL FLUX (lm)  | 3880     |
| TEST VOLTAGE (V)  | 220      | θ @50% (H,V)     | 33,33DEG |

| VERTICAL (DEG)   | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a  |
|------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|------|
|                  | 0.55              | 0.72 | 0.92 | 1.13 | 1.35 | 1.54 | 1.71 | 1.85 | 1.96 | 2.01 | 1.98 | 1.90 | 1.77 | 1.61 | 1.41 | 1.20 | 0.97    | 0.74 | 25.3 | 0.00 |
| 45               | 0.66              | 0.88 | 1.12 | 1.39 | 1.65 | 1.90 | 2.19 | 2.50 | 2.80 | 2.94 | 2.88 | 2.67 | 2.37 | 2.01 | 1.70 | 1.43 | 1.15    | 0.89 | 33.1 | 0.00 |
| 40               | 0.78              | 1.04 | 1.34 | 1.64 | 2.02 | 2.57 | 3.26 | 3.98 | 4.65 | 4.96 | 4.80 | 4.35 | 3.66 | 2.86 | 2.17 | 1.67 | 1.33    | 1.03 | 48.1 | 0.00 |
| 35               | 0.89              | 1.21 | 1.55 | 1.97 | 2.72 | 3.86 | 5.34 | 6.99 | 8.83 | 9.64 | 9.04 | 7.77 | 5.97 | 4.33 | 2.98 | 2.03 | 1.50    | 1.17 | 77.8 | 30.1 |
| 30               | 1.00              | 1.35 | 1.77 | 2.52 | 3.86 | 6.08 | 9.72 | 14.3 | 19.1 | 21.2 | 19.5 | 15.5 | 10.5 | 6.55 | 4.08 | 2.57 | 1.72    | 1.29 | 143  | 112  |
| 25               | 1.09              | 1.47 | 2.05 | 3.24 | 5.51 | 10.0 | 18.8 | 29.4 | 37.0 | 39.4 | 36.4 | 28.8 | 18.5 | 9.91 | 5.44 | 3.26 | 2.02    | 1.40 | 254  | 228  |
| 20               | 1.16              | 1.57 | 2.34 | 4.01 | 7.71 | 16.6 | 32.1 | 46.0 | 54.2 | 56.7 | 52.7 | 41.7 | 27.0 | 14.3 | 7.19 | 3.99 | 2.34    | 1.51 | 373  | 351  |
| 15               | 1.21              | 1.66 | 2.58 | 4.64 | 9.75 | 23.6 | 43.5 | 58.4 | 67.1 | 69.4 | 63.8 | 50.0 | 34.0 | 19.1 | 8.90 | 4.55 | 2.57    | 1.59 | 466  | 446  |
| 10               | 1.23              | 1.70 | 2.72 | 5.02 | 11.2 | 27.5 | 48.8 | 65.0 | 73.9 | 74.1 | 67.8 | 54.9 | 38.0 | 21.3 | 9.64 | 4.79 | 2.67    | 1.63 | 512  | 492  |
| 5                | 1.22              | 1.68 | 2.67 | 4.87 | 10.7 | 26.1 | 47.1 | 63.1 | 72.2 | 73.9 | 67.3 | 54.1 | 37.1 | 20.5 | 9.30 | 4.68 | 2.63    | 1.62 | 501  | 481  |
| 0                | 1.18              | 1.61 | 2.44 | 4.23 | 8.63 | 20.2 | 38.9 | 53.2 | 62.9 | 65.5 | 59.3 | 46.9 | 31.5 | 16.8 | 8.02 | 4.24 | 2.45    | 1.56 | 430  | 408  |
| -5               | 1.12              | 1.51 | 2.16 | 3.54 | 6.36 | 12.7 | 24.2 | 38.0 | 47.7 | 50.4 | 45.6 | 35.3 | 22.2 | 11.6 | 6.15 | 3.58 | 2.18    | 1.48 | 316  | 292  |
| -10              | 1.03              | 1.40 | 1.89 | 2.83 | 4.43 | 7.21 | 12.4 | 20.7 | 28.4 | 31.1 | 28.0 | 20.7 | 13.0 | 7.49 | 4.52 | 2.86 | 1.87    | 1.37 | 191  | 163  |
| -15              | 0.94              | 1.27 | 1.64 | 2.18 | 3.08 | 4.49 | 6.58 | 9.63 | 12.5 | 14.0 | 13.1 | 10.1 | 7.17 | 4.90 | 3.31 | 2.24 | 1.62    | 1.25 | 100  | 62.2 |
| -20              | 0.83              | 1.12 | 1.43 | 1.76 | 2.24 | 2.98 | 3.96 | 5.09 | 6.01 | 6.50 | 6.31 | 5.37 | 4.29 | 3.28 | 2.42 | 1.81 | 1.44    | 1.12 | 57.9 | 3.60 |
| -25              | 0.71              | 0.95 | 1.21 | 1.49 | 1.78 | 2.12 | 2.59 | 3.10 | 3.48 | 3.68 | 3.62 | 3.27 | 2.77 | 2.27 | 1.86 | 1.55 | 1.25    | 0.97 | 38.7 | 0.00 |
| -30              | 0.60              | 0.78 | 0.99 | 1.23 | 1.47 | 1.70 | 1.92 | 2.12 | 2.27 | 2.36 | 2.33 | 2.19 | 1.99 | 1.78 | 1.55 | 1.31 | 1.06    | 0.82 | 28.5 | 0.00 |
| -35              | 0.51              | 0.63 | 0.79 | 0.98 | 1.17 | 1.37 | 1.54 | 1.67 | 1.75 | 1.79 | 1.79 | 1.72 | 1.60 | 1.45 | 1.27 | 1.07 | 0.87    | 0.67 | 22.6 | 0.00 |
| -40              | 0.45              | 0.55 | 0.70 | 0.87 | 1.04 | 1.21 | 1.37 | 1.51 | 1.62 | 1.65 | 1.64 | 1.56 | 1.44 | 1.31 | 1.17 | 1.02 | 0.81    | 0.62 | 19.1 | 0.00 |
| -45              | 0.40              | 0.50 | 0.65 | 0.81 | 0.97 | 1.13 | 1.28 | 1.41 | 1.50 | 1.52 | 1.50 | 1.41 | 1.28 | 1.14 | 1.00 | 0.86 | 0.71    | 0.57 | 16.7 | 0.00 |
| HORIZONTAL (DEG) |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |      |      |      |
| Φ t              | 16.7              | 22.6 | 31.6 | 48.7 | 85.6 | 173  | 305  | 425  | 507  | 530  | 486  | 387  | 263  | 152  | 81.9 | 48.8 | 31.6    | 22.1 | 3617 | ---  |
| Φ a              | 0.00              | 0.00 | 0.00 | 0.00 | 45.1 | 140  | 276  | 399  | 482  | 506  | 462  | 362  | 236  | 120  | 39.6 | 0.00 | 0.00    | 0.00 | ---  | 3068 |

one-half-peak spread: U:15.7,D:17.9 , L:15.6,R:18.1

NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:lzh  
Test Date:2024-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks: 502307-1/36D/50W/3000K

## ISOCANDELA DIAGRAM

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:221.2V I:0.2360A P:51.17W PF:0.9803 Lamp Flux:3879.53x1 lm |       |                  |
| NAME: Garnet - 288100                                             | TYPE: | WEIGHT:          |
| SPEC.:50W/36D/3000K                                               | DIM.: | SERIAL No.:      |
| MFR.: BBT-LIGHTING                                                | SUR.: | Shielding Angle: |

Conical surface Flux(90deg):

3551.8 lm

%lum = 91.5%

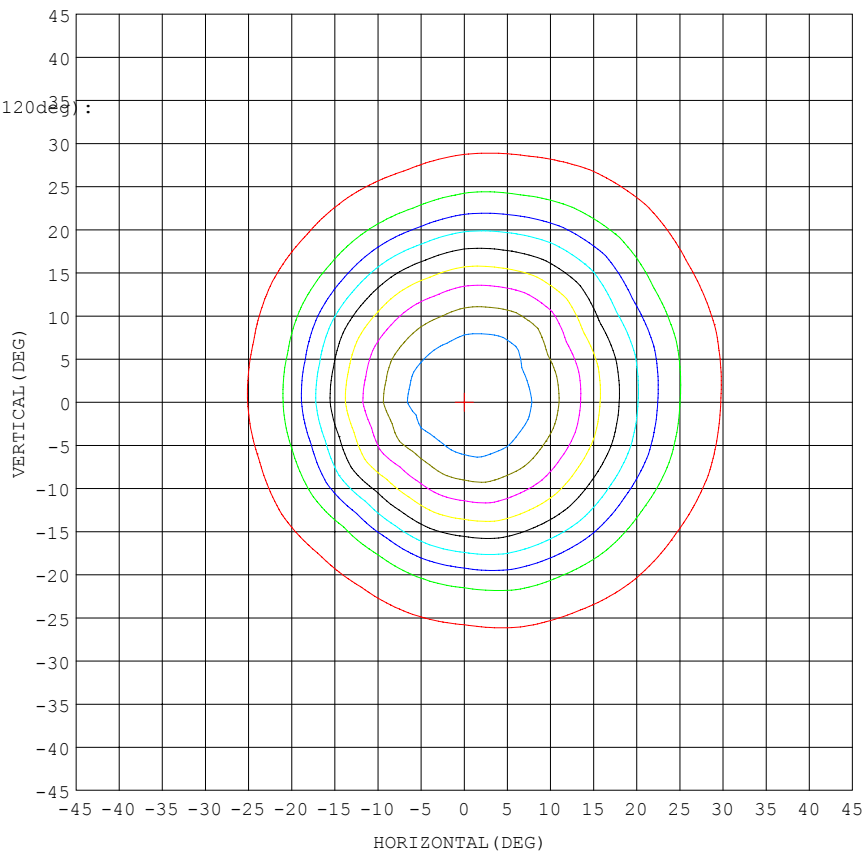
%lamp = 91.6%

Conical surface Flux(120deg):

3743.4 lm

%lum = 96.5%

%lamp = 96.5%



10% 1010  
20% 2020  
30% 3031  
40% 4041  
50% 5051  
60% 6061  
70% 7071  
80% 8081  
90% 9092

CBCP: 1456  
Sym.Type: Not Sym.  
Half-angle: Type I

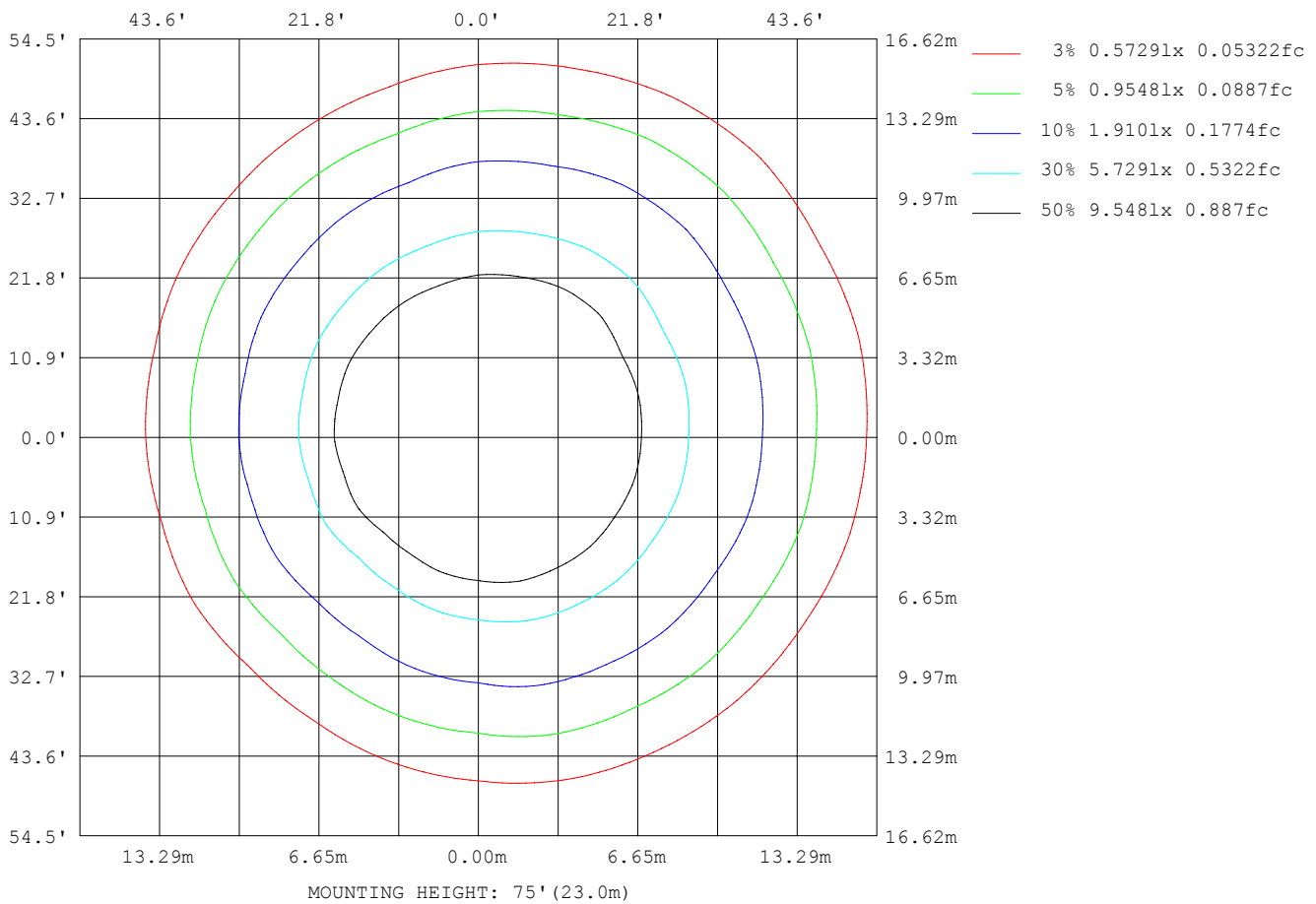
Imax:10102 (H0.0,V0.0)  
(At:C=300.0,Gamma=1.0)  
UNIT: cd

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:lzh  
Test Date:2024-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks: 502307-1/36D/50W/3000K

## ISOLUX DIAGRAM

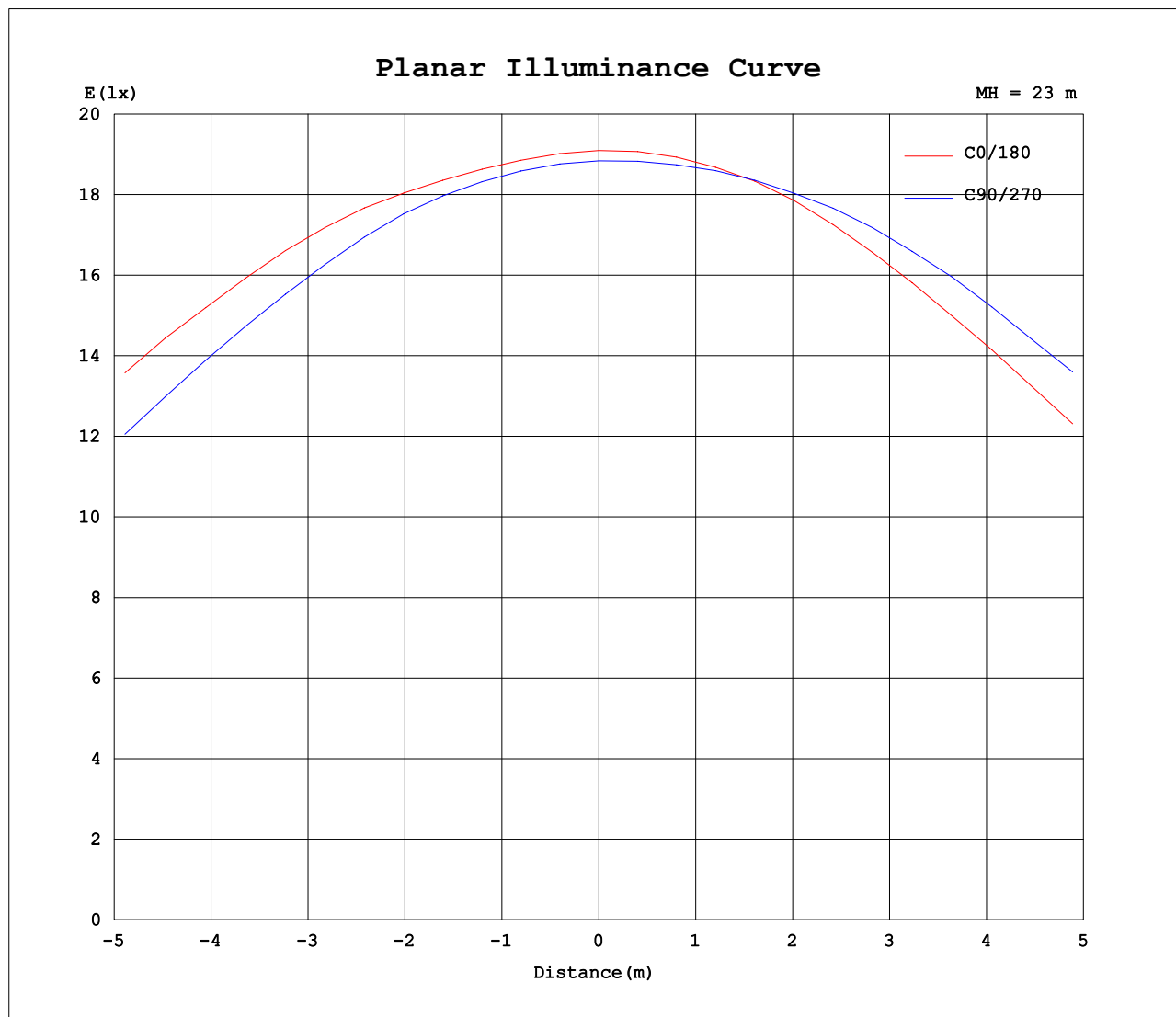
|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:221.2V I:0.2360A P:51.17W PF:0.9803 Lamp Flux:3879.53x1 lm |       |                  |
| NAME: Garnet - 288100                                             | TYPE: | WEIGHT:          |
| SPEC.:50W/36D/3000K                                               | DIM.: | SERIAL No.:      |
| MFR.: BBT-LIGHTING                                                | SUR.: | Shielding Angle: |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:lzh  
Test Date:2024-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks: 502307-1/36D/50W/3000K

## Planar Illuminance Curve

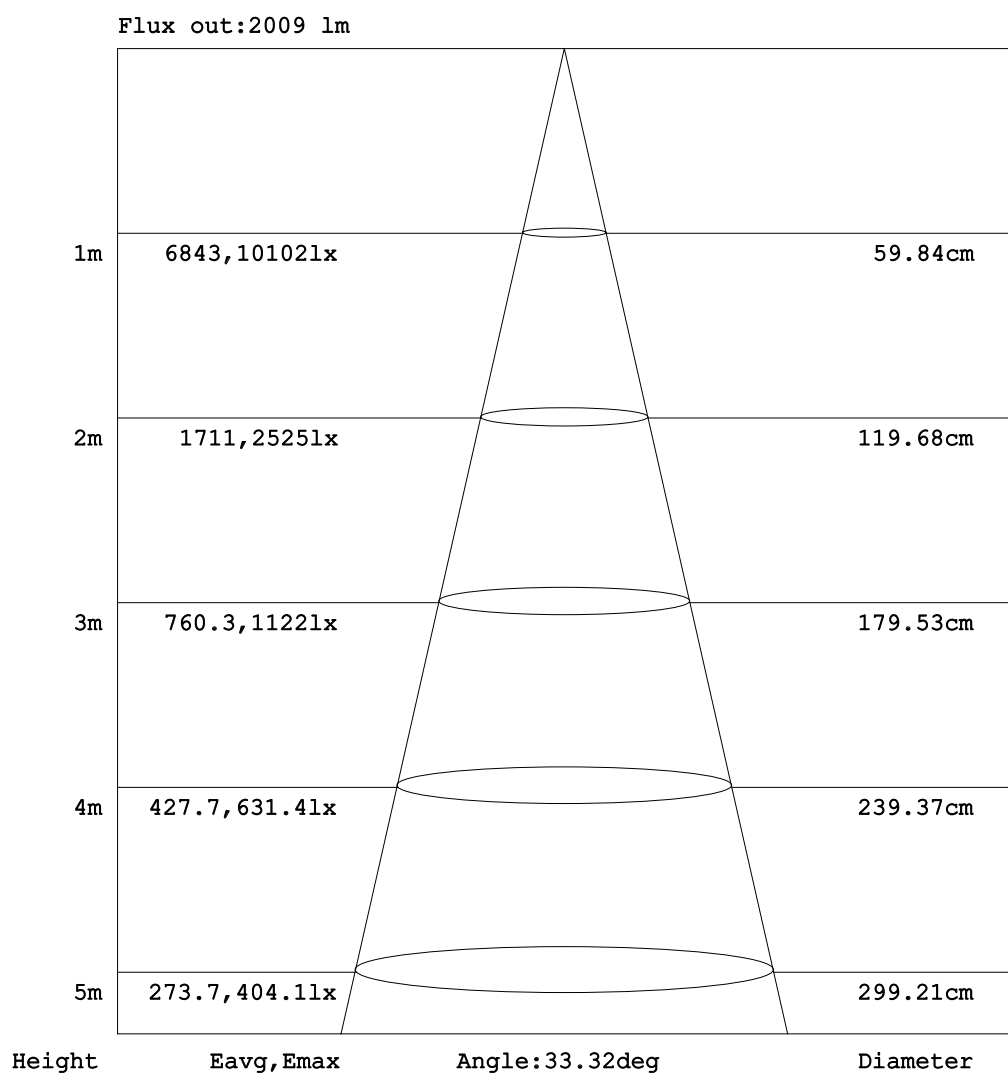


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:lzh  
Test Date:2024-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks: 502307-1/36D/50W/3000K

## AAI Figure

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:221.2V I:0.2360A P:51.17W PF:0.9803 Lamp Flux:3879.53x1 lm |       |                  |
| NAME: Garnet - 288100                                             | TYPE: | WEIGHT:          |
| SPEC.:50W/36D/3000K                                               | DIM.: | SERIAL No.:      |
| MFR.: BBT-LIGHTING                                                | SUR.: | Shielding Angle: |



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: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:lzh  
Test Date:2024-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:6.350m [K=1.0000]  
Remarks: 502307-1/36D/50W/3000K

Table--1

## LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT:  $\times 10\text{cd}$ 

| H (DEG)<br>V (DEG) | -90  | -75  | -60  | -45   | -30   | -20   | -15   | -10   | -9    | -8    | -7    | -6    | -5    | -4    | -3    |
|--------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -90                |      | 0.93 | 0.92 | 0.96  | 0.95  | 0.92  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  |
| -75                |      | 0.98 | 1.73 | 2.28  | 2.91  | 3.33  | 3.51  | 3.66  | 3.68  | 3.71  | 3.73  | 3.75  | 3.77  | 3.79  | 3.81  |
| -60                |      | 1.70 | 3.35 | 4.94  | 6.46  | 7.41  | 7.83  | 8.18  | 8.24  | 8.29  | 8.34  | 8.39  | 8.44  | 8.48  | 8.51  |
| -45                |      | 2.42 | 5.04 | 7.91  | 11.85 | 15.65 | 17.45 | 18.96 | 19.21 | 19.45 | 19.67 | 19.87 | 20.05 | 20.22 | 20.36 |
| -30                |      | 3.04 | 6.50 | 12.10 | 22.28 | 30.45 | 37.71 | 47.00 | 48.72 | 50.40 | 52.10 | 53.69 | 55.15 | 56.48 | 57.66 |
| -20                |      | 3.36 | 7.32 | 15.44 | 31.11 | 61.80 | 93.73 | 144.7 | 158.9 | 173.7 | 187.6 | 202.2 | 217   | 230   | 241.4 |
| -15                |      | 3.48 | 7.65 | 16.78 | 37.55 | 96.51 | 170.2 | 306   | 338.8 | 371.9 | 404.8 | 435   | 461.9 | 485.5 | 503.1 |
| -10                |      | 3.57 | 7.92 | 17.98 | 44.36 | 149.7 | 324.5 | 527.2 | 564.7 | 599.9 | 631.1 | 658.6 | 686.8 | 712.4 | 734.4 |
| -9                 |      | 3.59 | 7.96 | 18.19 | 45.47 | 162.1 | 362.5 | 571.7 | 603.2 | 638.2 | 669.6 | 698   | 723.2 | 750   | 773   |
| -8                 |      | 3.60 | 8.00 | 18.38 | 46.76 | 174.6 | 392   | 613.2 | 645.2 | 672.8 | 704.9 | 734.4 | 759.4 | 784.9 | 808.3 |
| -7                 |      | 3.61 | 8.03 | 18.55 | 48.11 | 185.9 | 417.9 | 650.8 | 683.2 | 712   | 738   | 767.6 | 793.7 | 816.6 | 840.4 |
| -6                 |      | 3.62 | 8.07 | 18.70 | 49.35 | 196   | 440.7 | 685   | 718.4 | 747.9 | 774.6 | 797.3 | 824.3 | 846.8 | 868.5 |
| -5                 |      | 3.64 | 8.10 | 18.84 | 50.48 | 205.6 | 460.1 | 708.2 | 746.8 | 779.8 | 807.5 | 831.3 | 851.2 | 874.5 | 894.5 |
| -4                 |      | 3.64 | 8.12 | 18.96 | 51.48 | 215.3 | 476.9 | 725.3 | 764.6 | 802.1 | 836.4 | 861.1 | 881.7 | 898.6 | 919.8 |
| -3                 |      | 3.65 | 8.14 | 19.06 | 52.35 | 224.3 | 497.6 | 738.4 | 778.3 | 816.2 | 850.7 | 881.8 | 908.8 | 926.9 | 940.1 |
| -2.5               |      | 3.66 | 8.15 | 19.10 | 52.73 | 228.4 | 506.6 | 745.7 | 783.7 | 821.8 | 856.3 | 887.9 | 915.9 | 937.6 | 951.3 |
| -2                 |      | 3.66 | 8.16 | 19.14 | 53.07 | 232.2 | 514.7 | 755.2 | 792.9 | 828.4 | 860.7 | 893.1 | 920.6 | 944   | 960.1 |
| -1.5               |      | 3.66 | 8.17 | 19.18 | 53.38 | 235.6 | 521.8 | 763.8 | 801.9 | 838.3 | 869.8 | 899   | 923.9 | 947.8 | 966   |
| -1                 |      | 3.66 | 8.18 | 19.21 | 53.65 | 238.7 | 528.1 | 771.5 | 810   | 847.2 | 879.7 | 909.9 | 933.2 | 952.2 | 968.5 |
| -0.5               |      | 3.67 | 8.18 | 19.23 | 53.88 | 241.3 | 533.3 | 778.2 | 817   | 855   | 888.6 | 919.6 | 944.9 | 965.2 | 978.2 |
| 0                  | 0.87 | 3.67 | 8.19 | 19.25 | 54.07 | 243.5 | 537.6 | 783.8 | 822.9 | 861.6 | 896.3 | 928   | 955.6 | 977.1 | 992.2 |
| 0.5                |      | 3.67 | 8.19 | 19.26 | 54.14 | 244.3 | 538   | 783.3 | 822.6 | 861.1 | 895.5 | 926.7 | 953.4 | 974.8 | 990.2 |
| 1                  |      | 3.67 | 8.19 | 19.26 | 54.18 | 244.5 | 537.5 | 781.8 | 821.3 | 859.5 | 893.5 | 924.2 | 949.9 | 971.3 | 987.5 |
| 1.5                |      | 3.67 | 8.19 | 19.26 | 54.17 | 244.2 | 536   | 779.3 | 818.8 | 856.7 | 890.4 | 920.5 | 946.5 | 968.7 | 984.6 |
| 2                  |      | 3.67 | 8.19 | 19.25 | 54.12 | 243.4 | 533.6 | 776   | 815.2 | 852.8 | 886.7 | 918   | 944.7 | 965.9 | 980.2 |
| 2.5                |      | 3.67 | 8.19 | 19.24 | 54.03 | 242.1 | 530.2 | 771.8 | 810.9 | 849.2 | 883.6 | 915   | 942.1 | 961.8 | 974.3 |
| 3                  |      | 3.67 | 8.18 | 19.22 | 53.90 | 240.2 | 526   | 768   | 807.6 | 845.3 | 879.5 | 910.7 | 938.2 | 955.7 | 967.4 |
| 4                  |      | 3.67 | 8.17 | 19.18 | 53.50 | 234.8 | 515   | 759.6 | 798.2 | 835.4 | 868.3 | 896.8 | 921.2 | 939.3 | 954.6 |
| 5                  |      | 3.66 | 8.16 | 19.11 | 52.94 | 227.1 | 504.4 | 747.2 | 785.3 | 820   | 850.6 | 877.7 | 901.8 | 921.6 | 936.4 |
| 6                  |      | 3.66 | 8.15 | 19.03 | 52.21 | 218.4 | 490.8 | 730.7 | 766.9 | 799.6 | 829.4 | 855.6 | 880.4 | 901.3 | 916.9 |
| 7                  |      | 3.65 | 8.13 | 18.93 | 51.30 | 210.4 | 473.6 | 708.4 | 744.1 | 776.5 | 805.2 | 832.9 | 857.2 | 877.2 | 893.1 |
| 8                  |      | 3.65 | 8.10 | 18.81 | 50.23 | 201.6 | 453.7 | 682.9 | 717.9 | 750.2 | 780.1 | 806.5 | 830.6 | 851.6 | 866.5 |
| 9                  |      | 3.64 | 8.08 | 18.67 | 49.15 | 190.7 | 430.4 | 654.1 | 688.4 | 721.5 | 751.6 | 778.3 | 800.4 | 819.5 | 835.7 |
| 10                 |      | 3.63 | 8.05 | 18.51 | 48.15 | 180.7 | 401.9 | 622.8 | 658   | 690.4 | 719.7 | 745.9 | 768.5 | 786.7 | 801.5 |
| 15                 |      | 3.56 | 7.85 | 17.52 | 41.83 | 124.5 | 244.7 | 432.9 | 466.4 | 496.6 | 523   | 546.7 | 566.7 | 583.2 | 601.2 |
| 20                 |      | 3.46 | 7.58 | 16.30 | 34.70 | 80.56 | 136.4 | 224.4 | 244.5 | 265.4 | 284.9 | 303.5 | 321.7 | 340.5 | 356.9 |
| 30                 |      | 3.18 | 6.85 | 13.08 | 24.37 | 37.22 | 48.51 | 61.37 | 63.94 | 66.36 | 68.97 | 71.72 | 74.37 | 76.89 | 79.24 |
| 45                 |      | 2.58 | 5.44 | 8.54  | 13.85 | 18.01 | 19.79 | 21.22 | 21.50 | 21.76 | 22.01 | 22.23 | 22.44 | 22.63 | 22.80 |
| 60                 |      | 1.84 | 3.78 | 5.54  | 7.22  | 8.21  | 8.63  | 9.01  | 9.08  | 9.15  | 9.21  | 9.27  | 9.33  | 9.38  | 9.43  |
| 75                 |      | 1.04 | 1.97 | 2.78  | 3.48  | 3.89  | 4.06  | 4.24  | 4.27  | 4.30  | 4.33  | 4.36  | 4.39  | 4.42  | 4.44  |
| 90                 |      | 0.87 | 0.89 | 0.87  | 0.86  | 0.87  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  |

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:1zh

Test Date:2024-01-24

V(B) Range:-90 - 90DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293

Humidity:65.0%

Test Distance:6.350m [K=1.0000]

Remarks: 502307-1/36D/50W/3000K

Table--2

**LUMINOUS DISTRIBUTION INTENSITY DATA**UNIT:  $\times 10\text{cd}$ 

| H (DEG)<br>V (DEG) | -2.5  | -2    | -1.5  | -1    | -0.5  | 0     | 0.5   | 1     | 1.5   | 2     | 2.5   | 3     | 4     | 5     | 6     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -90                | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  |
| -75                | 3.82  | 3.83  | 3.84  | 3.84  | 3.85  | 3.86  | 3.87  | 3.88  | 3.88  | 3.89  | 3.90  | 3.91  | 3.92  | 3.93  | 3.94  |
| -60                | 8.53  | 8.55  | 8.56  | 8.58  | 8.59  | 8.60  | 8.62  | 8.63  | 8.65  | 8.66  | 8.67  | 8.68  | 8.70  | 8.72  | 8.73  |
| -45                | 20.43 | 20.49 | 20.55 | 20.61 | 20.65 | 20.70 | 20.75 | 20.80 | 20.85 | 20.89 | 20.93 | 20.96 | 21.01 | 21.04 | 21.05 |
| -30                | 58.20 | 58.70 | 59.15 | 59.57 | 59.94 | 60.26 | 60.73 | 61.15 | 61.52 | 61.83 | 62.10 | 62.31 | 62.56 | 62.57 | 62.34 |
| -20                | 246.5 | 251.1 | 255.3 | 259   | 262.2 | 264.9 | 268.6 | 271.9 | 274.5 | 276.6 | 278.1 | 278.9 | 278.8 | 276   | 268.7 |
| -15                | 510.6 | 517.2 | 522.9 | 527.8 | 531.7 | 534.8 | 538.9 | 542.1 | 544.4 | 546   | 546.7 | 546.6 | 543.8 | 533.4 | 520   |
| -10                | 743.5 | 750.8 | 757   | 762.2 | 766.3 | 769.4 | 773.3 | 776.2 | 778.1 | 779   | 779   | 776.4 | 766.8 | 753.7 | 736.7 |
| -9                 | 783   | 790.7 | 796.9 | 802   | 806   | 808.9 | 813.2 | 816.3 | 818.4 | 819.4 | 818.6 | 814.5 | 803.7 | 789.8 | 774.5 |
| -8                 | 818.5 | 827.1 | 833.5 | 838.8 | 843   | 846.1 | 850.2 | 853.2 | 855.2 | 856.1 | 853.8 | 849.7 | 838.6 | 824.3 | 808.5 |
| -7                 | 851.1 | 861   | 868.2 | 873.4 | 877.4 | 880.1 | 884.6 | 887.9 | 889.9 | 889.9 | 886.3 | 881.8 | 870.7 | 857   | 840.4 |
| -6                 | 879.6 | 889.4 | 897.5 | 903.3 | 908   | 911.5 | 915.6 | 918.4 | 920.2 | 918.2 | 914.4 | 909.9 | 899.7 | 886.6 | 869.2 |
| -5                 | 904.6 | 914   | 922.2 | 928.7 | 933.8 | 937.7 | 941.5 | 944.1 | 944.4 | 941.4 | 937.6 | 933.5 | 924.4 | 912.2 | 891.6 |
| -4                 | 927.1 | 935.3 | 944   | 951.3 | 955.3 | 957.7 | 961.7 | 964.5 | 963.1 | 960.2 | 957.1 | 954.5 | 945.1 | 929.6 | 910.1 |
| -3                 | 948   | 953.5 | 960   | 967.2 | 971.4 | 973.2 | 976.9 | 978.3 | 976.8 | 975.4 | 974.1 | 971   | 959.9 | 943.9 | 926   |
| -2.5               | 955.4 | 961.7 | 967   | 973.1 | 977.7 | 979.2 | 982.8 | 983.5 | 982.6 | 981.9 | 980.2 | 976.5 | 965.1 | 950.7 | 933.3 |
| -2                 | 964.8 | 968.3 | 973.3 | 978.2 | 983.8 | 985.1 | 988.6 | 988.2 | 988   | 987.6 | 984.5 | 980.5 | 970.3 | 957   | 939.9 |
| -1.5               | 973   | 976.2 | 979.1 | 982.9 | 987.3 | 989.1 | 992.2 | 992.6 | 993.3 | 991   | 988.1 | 984.3 | 975.1 | 962.3 | 945.3 |
| -1                 | 975.5 | 981.6 | 985.4 | 987.3 | 990.2 | 993   | 995.5 | 997.3 | 996.6 | 994.6 | 991.7 | 988.1 | 978.6 | 964.8 | 947.9 |
| -0.5               | 981.8 | 984.1 | 986.8 | 990.5 | 993.4 | 994.8 | 1000  | 1002  | 1001  | 998.4 | 994.1 | 989.7 | 978.9 | 965.4 | 949.6 |
| 0                  | 997.8 | 1003  | 1006  | 1009  | 1010  | 1010  | 1008  | 1006  | 1003  | 999.2 | 994.4 | 989.6 | 978.3 | 965.2 | 950.4 |
| 0.5                | 995.5 | 1000  | 1003  | 1004  | 1001  | 996.6 | 998.1 | 991   | 986.5 | 983.2 | 981   | 978   | 969.3 | 959   | 946   |
| 1                  | 993.1 | 997.1 | 999.1 | 998.4 | 996.6 | 996.6 | 997.9 | 996.7 | 989.1 | 982.5 | 976.6 | 970.8 | 960   | 952.3 | 941.1 |
| 1.5                | 990.4 | 992.8 | 994.2 | 994.2 | 993.5 | 994.8 | 995.8 | 996   | 993.7 | 985.3 | 976.7 | 970.4 | 958.8 | 947.5 | 935.8 |
| 2                  | 984.9 | 987.9 | 989.5 | 990.2 | 990.8 | 993.1 | 993.8 | 994.1 | 992.2 | 988.9 | 980.2 | 971.7 | 958.3 | 946.7 | 933.6 |
| 2.5                | 978.5 | 982.7 | 985   | 986.3 | 987.8 | 990.4 | 990.9 | 991.1 | 990.7 | 987   | 982.2 | 973.9 | 958.3 | 945.3 | 931.7 |
| 3                  | 973.2 | 977.1 | 979.8 | 981.8 | 984.7 | 987.7 | 987.9 | 987.7 | 987.1 | 984.6 | 980   | 975   | 959.8 | 944   | 929.2 |
| 4                  | 959.9 | 964.2 | 967.5 | 970   | 974.5 | 978.2 | 978.9 | 979   | 978.5 | 977.5 | 975   | 970.6 | 960.9 | 944.7 | 925.4 |
| 5                  | 942.5 | 947.8 | 952   | 956.8 | 961.4 | 965.1 | 966.6 | 967.5 | 967.4 | 966.5 | 965.4 | 963.5 | 953.9 | 943.3 | 922.4 |
| 6                  | 922.8 | 928   | 933   | 939.5 | 945.2 | 950   | 951.3 | 951.9 | 951.8 | 951.4 | 950.7 | 949.8 | 942.7 | 930.7 | 916.1 |
| 7                  | 899.7 | 905.3 | 912.2 | 918.9 | 924.7 | 929.5 | 931.2 | 932.1 | 932.2 | 931.7 | 931   | 929.7 | 925.3 | 913   | 898.4 |
| 8                  | 872.8 | 879.1 | 886.6 | 893.3 | 899   | 904   | 906   | 907.3 | 907.7 | 907.4 | 906.7 | 905.4 | 901.2 | 891.3 | 876.5 |
| 9                  | 842.5 | 850.7 | 858.5 | 865.4 | 871.2 | 876.2 | 878.3 | 879.5 | 879.8 | 879.2 | 878   | 876.5 | 871.9 | 864.8 | 850.3 |
| 10                 | 808.7 | 817.1 | 824.7 | 831.5 | 837.4 | 842.5 | 844.6 | 845.8 | 846.2 | 845.9 | 844.8 | 843.7 | 840   | 832.8 | 820.2 |
| 15                 | 609.3 | 616.7 | 623.4 | 629.3 | 634.5 | 639   | 640.9 | 642.1 | 642.6 | 642.2 | 641.2 | 639.5 | 633.9 | 627.8 | 618.8 |
| 20                 | 364.2 | 370.9 | 377   | 382.5 | 387.4 | 391.7 | 393.9 | 395.6 | 396.6 | 397.1 | 396.9 | 396.2 | 393   | 387.6 | 381   |
| 30                 | 80.35 | 81.40 | 82.40 | 83.33 | 84.19 | 84.98 | 85.44 | 85.82 | 86.12 | 86.34 | 86.48 | 86.54 | 86.41 | 85.93 | 85.11 |
| 45                 | 22.88 | 22.96 | 23.03 | 23.09 | 23.15 | 23.21 | 23.25 | 23.28 | 23.31 | 23.33 | 23.35 | 23.36 | 23.38 | 23.37 | 23.35 |
| 60                 | 9.46  | 9.48  | 9.50  | 9.52  | 9.54  | 9.56  | 9.57  | 9.59  | 9.61  | 9.62  | 9.63  | 9.64  | 9.66  | 9.68  | 9.69  |
| 75                 | 4.45  | 4.46  | 4.48  | 4.49  | 4.50  | 4.51  | 4.52  | 4.52  | 4.53  | 4.54  | 4.55  | 4.55  | 4.57  | 4.58  | 4.59  |
| 90                 | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.88  | 0.89  | 0.90  | 0.90  | 0.91  | 0.91  | 0.92  | 0.93  | 0.95  |

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:1zh

Test Date:2024-01-24

V(B) Range:-90 - 90DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293

Humidity:65.0%

Test Distance:6.350m [K=1.0000]

Remarks: 502307-1/36D/50W/3000K

Table--3

**LUMINOUS DISTRIBUTION INTENSITY DATA**UNIT:  $\times 10\text{cd}$ 

| H (DEG)<br>V (DEG) | 7     | 8     | 9     | 10    | 15    | 20    | 30    | 45    | 60    | 75   | 90   |  |  |  |  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|--|--|--|--|
| -90                | 0.91  | 0.91  | 0.91  | 0.91  | 0.91  | 0.92  | 0.92  | 0.97  | 0.99  | 1.04 |      |  |  |  |  |
| -75                | 3.95  | 3.96  | 3.97  | 3.97  | 3.98  | 3.94  | 3.77  | 3.33  | 2.67  | 1.92 |      |  |  |  |  |
| -60                | 8.74  | 8.74  | 8.74  | 8.74  | 8.63  | 8.41  | 7.75  | 6.35  | 4.65  | 2.82 |      |  |  |  |  |
| -45                | 21.04 | 21.02 | 20.97 | 20.91 | 20.17 | 19.00 | 15.80 | 9.91  | 6.65  | 3.68 |      |  |  |  |  |
| -30                | 61.84 | 61.00 | 59.99 | 58.81 | 51.09 | 42.39 | 27.83 | 16.83 | 8.51  | 4.40 |      |  |  |  |  |
| -20                | 259.2 | 248.6 | 236   | 223.6 | 158.7 | 104.4 | 46.92 | 21.17 | 9.51  | 4.74 |      |  |  |  |  |
| -15                | 504   | 486   | 465.9 | 444   | 307.5 | 173.6 | 61.49 | 22.92 | 9.92  | 4.87 |      |  |  |  |  |
| -10                | 718.3 | 697.3 | 673.1 | 646.1 | 471.8 | 278   | 77.96 | 24.16 | 10.31 | 4.97 |      |  |  |  |  |
| -9                 | 755.2 | 733   | 708   | 678.3 | 498.6 | 300.2 | 81.30 | 24.37 | 10.38 | 4.98 |      |  |  |  |  |
| -8                 | 789   | 766   | 738.1 | 708.1 | 525.3 | 321.7 | 84.04 | 24.55 | 10.44 | 4.99 |      |  |  |  |  |
| -7                 | 820.1 | 794.3 | 765.6 | 734.3 | 550.1 | 341.4 | 86.71 | 24.72 | 10.50 | 5.01 |      |  |  |  |  |
| -6                 | 845.9 | 819.7 | 790.4 | 758   | 572.6 | 359.6 | 89.12 | 24.87 | 10.54 | 5.02 |      |  |  |  |  |
| -5                 | 867.8 | 841.3 | 812.5 | 781.7 | 592.8 | 374.4 | 91.25 | 25.00 | 10.59 | 5.03 |      |  |  |  |  |
| -4                 | 886.3 | 861.8 | 833.2 | 802.1 | 610.1 | 386   | 93.09 | 25.11 | 10.62 | 5.03 |      |  |  |  |  |
| -3                 | 904.3 | 879.1 | 850.4 | 819   | 622.2 | 395.4 | 94.63 | 25.20 | 10.66 | 5.04 |      |  |  |  |  |
| -2.5               | 912   | 886.8 | 857.9 | 825.6 | 627.1 | 399.3 | 95.28 | 25.24 | 10.67 | 5.04 |      |  |  |  |  |
| -2                 | 918.7 | 893.2 | 863.2 | 830.5 | 631.3 | 402.6 | 95.85 | 25.28 | 10.68 | 5.04 |      |  |  |  |  |
| -1.5               | 923.2 | 897.5 | 867.4 | 834.5 | 634.8 | 405.5 | 96.35 | 25.31 | 10.69 | 5.05 |      |  |  |  |  |
| -1                 | 926.3 | 900.9 | 870.7 | 837.7 | 637.5 | 407.7 | 96.76 | 25.33 | 10.70 | 5.05 |      |  |  |  |  |
| -0.5               | 928.5 | 903.4 | 873.1 | 840   | 639.4 | 409.4 | 97.09 | 25.35 | 10.70 | 5.05 |      |  |  |  |  |
| 0                  | 929.8 | 905   | 874.6 | 841.5 | 640.6 | 410.6 | 97.33 | 25.36 | 10.71 | 5.05 | 1.12 |  |  |  |  |
| 0.5                | 927.4 | 904.1 | 874.5 | 841.9 | 641.7 | 411.9 | 97.68 | 25.36 | 10.71 | 5.05 |      |  |  |  |  |
| 1                  | 924.4 | 902.3 | 873.5 | 841.4 | 642.1 | 412.6 | 97.94 | 25.35 | 10.71 | 5.05 |      |  |  |  |  |
| 1.5                | 920.8 | 899.7 | 871.7 | 840.2 | 641.7 | 412.8 | 98.11 | 25.34 | 10.71 | 5.05 |      |  |  |  |  |
| 2                  | 917.3 | 896.4 | 869.1 | 838.1 | 640.6 | 412.4 | 98.19 | 25.32 | 10.70 | 5.05 |      |  |  |  |  |
| 2.5                | 914.6 | 892.8 | 865.8 | 835.3 | 638.9 | 411.6 | 98.18 | 25.30 | 10.70 | 5.05 |      |  |  |  |  |
| 3                  | 911.1 | 888.5 | 861.5 | 831.3 | 636.4 | 410.2 | 98.08 | 25.28 | 10.69 | 5.05 |      |  |  |  |  |
| 4                  | 901.5 | 878.1 | 850.9 | 820.5 | 629.6 | 405.9 | 97.59 | 25.21 | 10.67 | 5.04 |      |  |  |  |  |
| 5                  | 896.7 | 867.3 | 836.7 | 806.4 | 617   | 399.5 | 96.72 | 25.12 | 10.65 | 5.03 |      |  |  |  |  |
| 6                  | 890.1 | 860.7 | 826.7 | 790.4 | 601.1 | 389.8 | 95.46 | 25.02 | 10.62 | 5.03 |      |  |  |  |  |
| 7                  | 880.5 | 849.1 | 815.5 | 779.5 | 582.5 | 376.2 | 93.80 | 24.90 | 10.58 | 5.02 |      |  |  |  |  |
| 8                  | 857.3 | 834.5 | 801.5 | 765.1 | 561.9 | 360.8 | 91.73 | 24.76 | 10.53 | 5.01 |      |  |  |  |  |
| 9                  | 830.9 | 809.3 | 783.6 | 747.5 | 539.9 | 343.7 | 89.55 | 24.60 | 10.48 | 5.00 |      |  |  |  |  |
| 10                 | 801.4 | 780   | 755.3 | 726.7 | 522.4 | 325.4 | 86.58 | 24.42 | 10.42 | 4.98 |      |  |  |  |  |
| 15                 | 606.7 | 592.3 | 572.6 | 548.7 | 406   | 230.7 | 70.49 | 23.31 | 10.05 | 4.90 |      |  |  |  |  |
| 20                 | 372.7 | 362.6 | 350.5 | 336.9 | 240.1 | 147   | 55.33 | 21.73 | 9.61  | 4.78 |      |  |  |  |  |
| 30                 | 83.94 | 82.63 | 81.52 | 80.09 | 69.96 | 56.35 | 32.11 | 17.67 | 8.63  | 4.45 |      |  |  |  |  |
| 45                 | 23.30 | 23.24 | 23.16 | 23.05 | 22.40 | 21.32 | 17.86 | 10.77 | 6.81  | 3.76 |      |  |  |  |  |
| 60                 | 9.69  | 9.69  | 9.68  | 9.67  | 9.53  | 9.31  | 8.60  | 6.90  | 4.85  | 2.92 |      |  |  |  |  |
| 75                 | 4.60  | 4.60  | 4.61  | 4.61  | 4.61  | 4.59  | 4.45  | 3.86  | 2.88  | 2.05 |      |  |  |  |  |
| 90                 | 0.96  | 0.97  | 0.98  | 0.99  | 1.05  | 1.10  | 1.20  | 1.32  | 1.19  | 1.21 |      |  |  |  |  |

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators: lzh

Test Date:2024-01-24

V(B) Range:-90 - 90DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.293

Humidity:65.0%

Test Distance:6.350m [K=1.0000]

Remarks: 502307-1/36D/50W/3000K