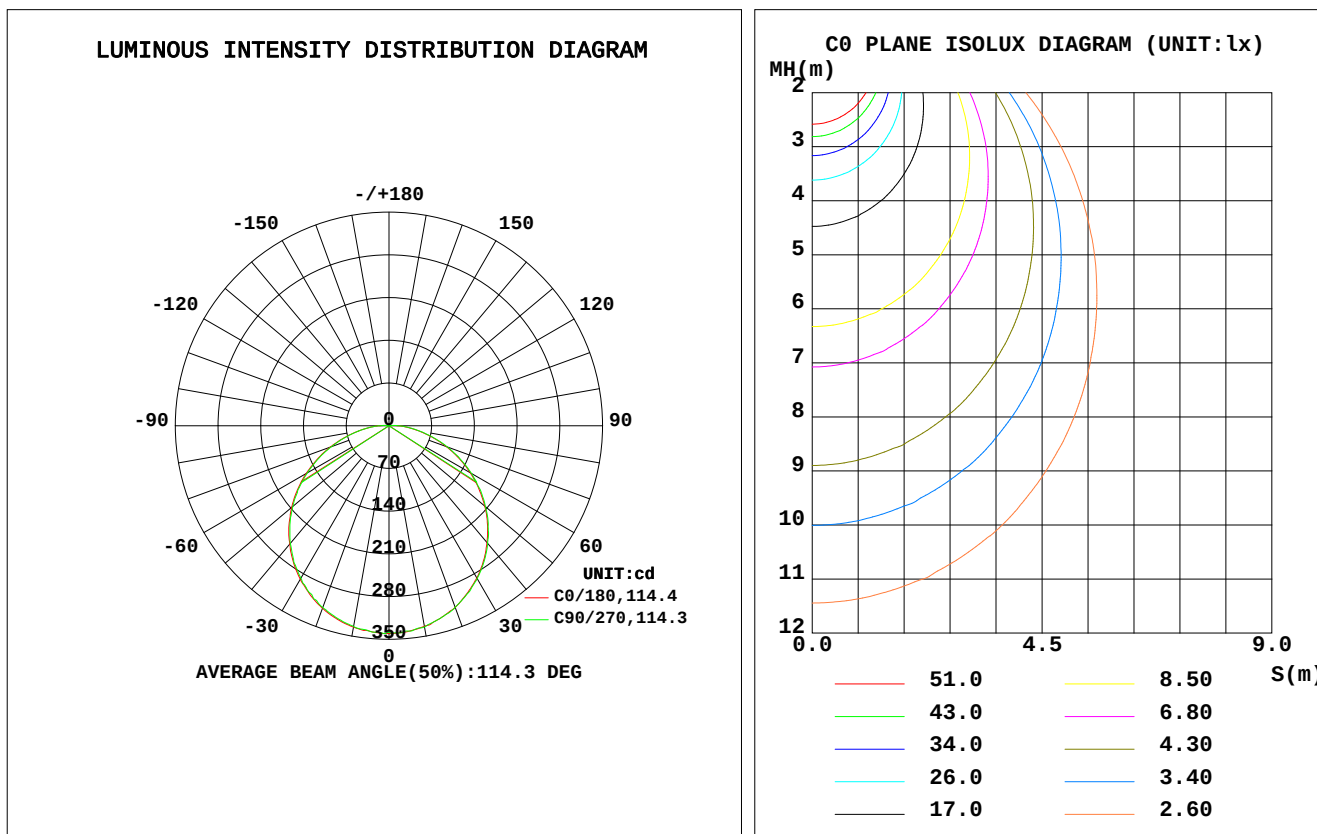


# LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 91 lm/W |        |                         |           |
|------------------|---------|-------------------------------|--------|-------------------------|-----------|
| MODEL            |         | Imax(cd)                      | 300    | S/MH(C0/180)            | 1.27      |
| NOMINAL POWER(W) | 11W     | LOR(%)                        | 100.0  | S/MH(C90/270)           | 1.27      |
| RATED VOLTAGE(V) | 220-240 | TOTAL FLUX(lm)                | 1000   | $\eta$ UP, DN(C0-180)   | 0.8, 49.3 |
| NOMINAL FLUX(lm) | 1000    | CIE CLASS                     | DIRECT | $\eta$ UP, DN(C180-360) | 0.7, 49.2 |
| LAMPS INSIDE     | 1       | $\eta$ up(%)                  | 1.5    | CIBSE SHR NOM           | 1.25      |
| TEST VOLTAGE(V)  |         | $\eta$ down(%)                | 98.5   | CIBSE SHR MAX           | 1.35      |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Checker: CHENXIAOFU

Assessor: Ju Hongli

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| γ   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | γ       | Φ zone   | Φ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|----------|---------|------------|
| 5   | 338.8                 | 338.3  | 337.6  | 338.1  | 338.7  | 339.3  | 338.8  | 337.8  | 0- 5    | 8.110    | 8.110   | 0.79,0.79  |
| 10  | 333.8                 | 333.8  | 334.7  | 333.8  | 335.1  | 335.3  | 333.9  | 332.6  | 5- 10   | 24.06    | 32.17   | 3.12,3.12  |
| 15  | 326.3                 | 326.5  | 326.4  | 327.3  | 328.2  | 326.8  | 326.6  | 325.8  | 10- 15  | 39.20    | 71.37   | 6.93,6.93  |
| 20  | 316.7                 | 316.5  | 317.1  | 316.8  | 318.3  | 317.4  | 317.1  | 316.1  | 15- 20  | 53.04    | 124.4   | 12.1,12.1  |
| 25  | 303.0                 | 303.7  | 303.9  | 305.1  | 305.8  | 304.7  | 303.4  | 302.9  | 20- 25  | 65.13    | 189.5   | 18.4,18.4  |
| 30  | 288.1                 | 288.4  | 289.1  | 290.1  | 290.7  | 289.1  | 288.6  | 288.0  | 25- 30  | 75.03    | 264.6   | 25.7,25.7  |
| 35  | 270.1                 | 271.2  | 271.6  | 272.1  | 273.1  | 272.0  | 272.0  | 269.8  | 30- 35  | 82.49    | 347.1   | 33.7,33.7  |
| 40  | 249.9                 | 251.1  | 251.4  | 252.1  | 253.0  | 252.2  | 252.0  | 250.0  | 35- 40  | 87.21    | 434.3   | 42.2,42.2  |
| 45  | 228.1                 | 229.5  | 230.1  | 231.0  | 231.9  | 230.2  | 229.8  | 228.2  | 40- 45  | 89.11    | 523.4   | 50.8,50.8  |
| 50  | 204.7                 | 206.1  | 206.5  | 207.1  | 208.3  | 206.5  | 205.8  | 204.4  | 45- 50  | 88.12    | 611.5   | 59.4,59.4  |
| 55  | 179.8                 | 181.1  | 182.4  | 182.7  | 183.2  | 181.3  | 181.5  | 179.4  | 50- 55  | 84.26    | 695.8   | 67.5,67.5  |
| 60  | 153.5                 | 155.1  | 155.8  | 156.6  | 156.8  | 155.1  | 154.5  | 153.3  | 55- 60  | 77.72    | 773.5   | 75.1,75.1  |
| 65  | 126.7                 | 128.3  | 128.6  | 129.7  | 129.9  | 128.0  | 127.5  | 126.6  | 60- 65  | 68.81    | 842.3   | 81.8,81.8  |
| 70  | 99.89                 | 101.4  | 101.8  | 102.7  | 102.4  | 100.8  | 100.5  | 99.76  | 65- 70  | 58.02    | 900.3   | 87.4,87.4  |
| 75  | 73.59                 | 75.04  | 75.42  | 76.15  | 75.95  | 74.48  | 74.30  | 73.59  | 70- 75  | 45.91    | 946.2   | 91.9,91.9  |
| 80  | 49.61                 | 51.10  | 51.60  | 52.17  | 51.45  | 50.78  | 50.85  | 50.16  | 75- 80  | 33.47    | 979.7   | 95.1,95.1  |
| 85  | 30.10                 | 31.09  | 31.69  | 32.12  | 31.63  | 30.97  | 31.24  | 30.58  | 80- 85  | 22.10    | 1002    | 97.3,97.3  |
| 90  | 15.40                 | 16.23  | 16.87  | 17.12  | 16.77  | 16.17  | 16.42  | 15.91  | 85- 90  | 12.78    | 1015    | 98.5,98.5  |
| 95  | 6.068                 | 5.331  | 7.156  | 4.261  | 7.139  | 4.060  | 6.978  | 5.513  | 90- 95  | 6.032    | 1021    | 99.1,99.1  |
| 100 | 1.455                 | 0.8885 | 0.8067 | 0.7969 | 1.734  | 0.7448 | 0.7852 | 0.8047 | 95-100  | 1.384    | 1022    | 99.2,99.2  |
| 105 | 0.9253                | 0.9729 | 0.8975 | 0.9408 | 0.9096 | 0.8059 | 0.9205 | 0.8168 | 100-105 | 0.4742   | 1022    | 99.3,99.3  |
| 110 | 1.146                 | 1.137  | 1.141  | 1.095  | 1.034  | 0.9398 | 1.118  | 0.9733 | 105-110 | 0.5168   | 1023    | 99.3,99.3  |
| 115 | 1.167                 | 1.282  | 1.275  | 1.251  | 1.171  | 1.143  | 1.199  | 1.156  | 110-115 | 0.5810   | 1024    | 99.4,99.4  |
| 120 | 1.291                 | 1.467  | 1.455  | 1.447  | 1.291  | 1.167  | 1.364  | 1.280  | 115-120 | 0.6209   | 1024    | 99.4,99.4  |
| 125 | 1.446                 | 1.571  | 1.611  | 1.602  | 1.437  | 1.310  | 1.550  | 1.508  | 120-125 | 0.6585   | 1025    | 99.5,99.5  |
| 130 | 1.601                 | 1.705  | 1.786  | 1.758  | 1.602  | 1.439  | 1.720  | 1.571  | 125-130 | 0.6873   | 1026    | 99.6,99.6  |
| 135 | 1.797                 | 1.871  | 1.952  | 1.737  | 1.778  | 1.611  | 1.872  | 1.738  | 130-135 | 0.6974   | 1026    | 99.6,99.6  |
| 140 | 1.920                 | 1.974  | 2.076  | 1.860  | 1.913  | 1.820  | 2.000  | 1.808  | 135-140 | 0.6958   | 1027    | 99.7,99.7  |
| 145 | 2.037                 | 2.015  | 2.071  | 2.035  | 2.025  | 1.837  | 2.035  | 1.931  | 140-145 | 0.6513   | 1028    | 99.8,99.8  |
| 150 | 2.130                 | 2.159  | 2.096  | 2.131  | 2.077  | 1.972  | 2.083  | 2.046  | 145-150 | 0.6027   | 1028    | 99.8,99.8  |
| 155 | 2.136                 | 2.200  | 2.121  | 2.180  | 2.139  | 2.083  | 2.139  | 2.124  | 150-155 | 0.5351   | 1029    | 99.9,99.9  |
| 160 | 2.262                 | 2.304  | 2.160  | 2.265  | 2.252  | 2.108  | 2.263  | 2.200  | 155-160 | 0.4551   | 1029    | 99.9,99.9  |
| 165 | 2.329                 | 2.532  | 2.407  | 2.356  | 2.314  | 2.283  | 2.459  | 2.478  | 160-165 | 0.3796   | 1030    | 99.9,99.9  |
| 170 | 2.469                 | 2.707  | 2.468  | 2.511  | 2.459  | 2.437  | 2.686  | 2.544  | 165-170 | 0.2916   | 1030    | 100,100    |
| 175 | 2.737                 | 2.966  | 2.665  | 2.656  | 2.687  | 2.654  | 2.872  | 2.809  | 170-175 | 0.1863   | 1030    | 100,100    |
| 180 | 3.193                 | 3.203  | 3.110  | 3.110  | 3.172  | 3.151  | 3.151  | 3.110  | 175-180 | 0.0697   | 1030    | 100,100    |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT: lm |         |            |

Conical surface Flux(90deg): 523.38 lm

%lum = 50.8%

%lamp = 50.8%

Conical surface Flux(120deg): 773.48 lm

%lum = 75.1%

%lamp = 75.1%

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

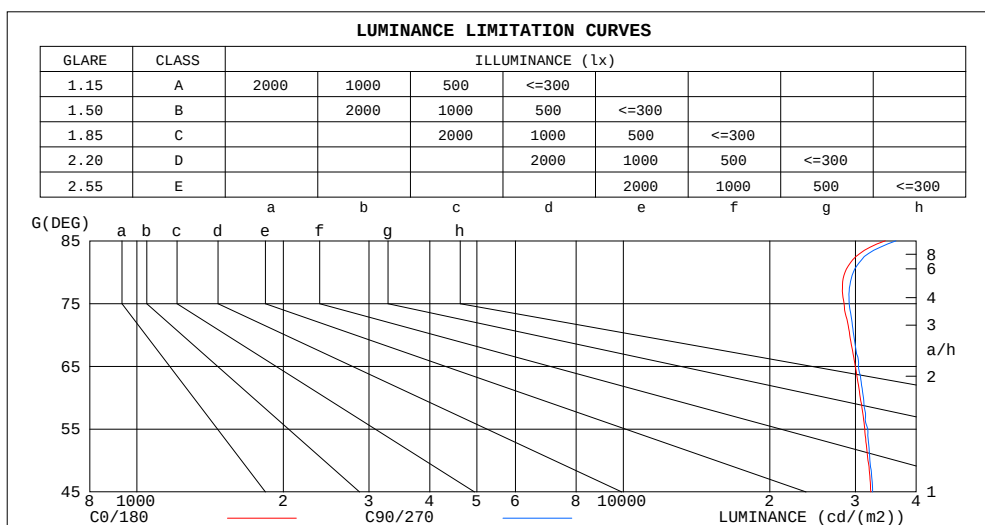
Checker: CHENXIAOFU

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Assessor: Ju Hongli

## LUMINANCE LIMITATION CURVES

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 34534  | 36357   |
| 80                | 28567  | 29718   |
| 75                | 28433  | 29140   |
| 70                | 29205  | 29750   |
| 65                | 29984  | 30418   |
| 60                | 30698  | 31158   |
| 55                | 31352  | 31807   |
| 50                | 31838  | 32127   |
| 45                | 32261  | 32547   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:  
 Test Date:2025-03-24

Checker: CHENXIAOFU

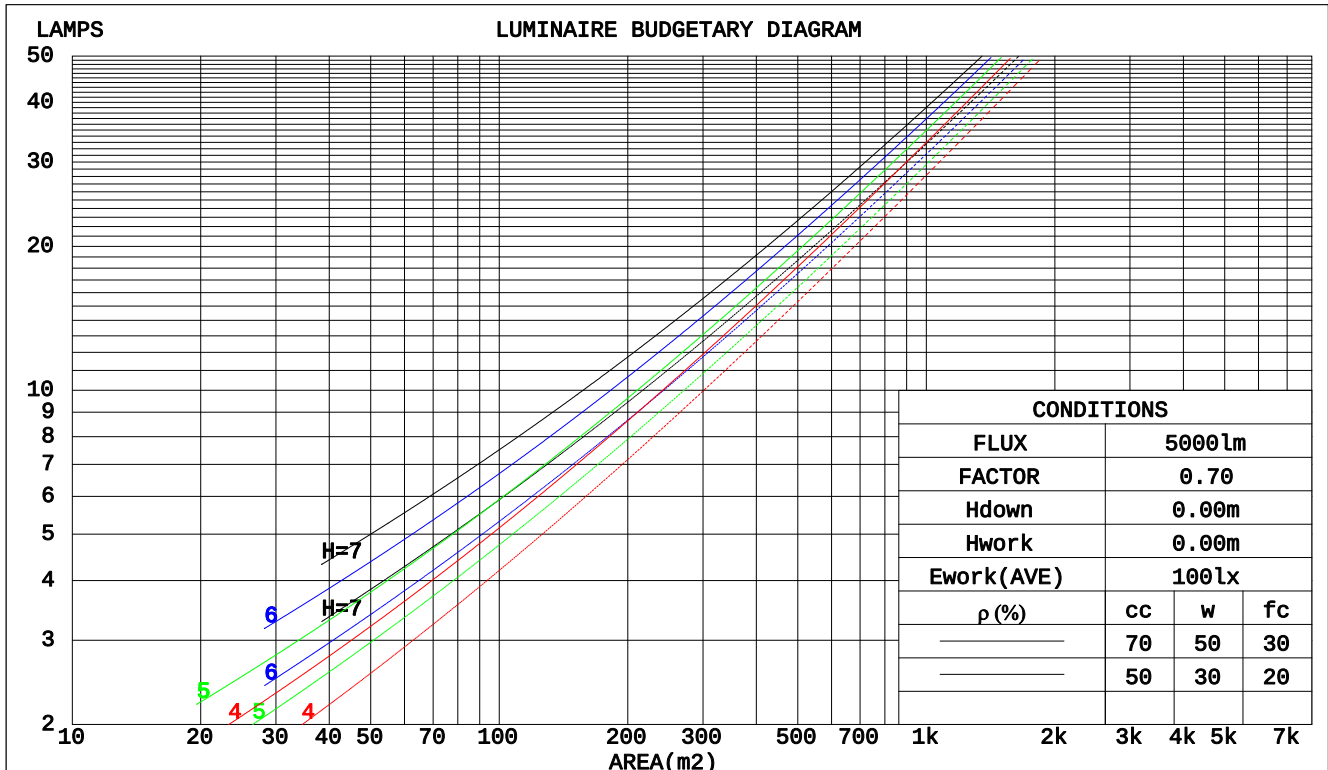
γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
 Humidity:56%  
 Test Distance:11.834m [K=1.0000]  
 Remarks:

Assessor: Ju Hongli

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                         |           |                       |
|-------------------------------------------------------------------------|-----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |           |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE: LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:     | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:     | Shielding Angle:      |

| $\rho_{CC}$           | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-----------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_W$              | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$           | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR                   | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| RCR:Room Cavity Ratio |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0                   | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | .98 |
| 1.0                   | 1.02                            | .98  | .94  | 1.00 | .96  | .92  | .95  | .92  | .89  | .91  | .88  | .86  | .87  | .85  | .83  | .81 |
| 2.0                   | .89                             | .82  | .76  | .87  | .80  | .75  | .83  | .77  | .73  | .79  | .75  | .71  | .76  | .72  | .69  | .67 |
| 3.0                   | .78                             | .69  | .63  | .76  | .68  | .62  | .73  | .66  | .61  | .70  | .64  | .59  | .67  | .62  | .58  | .56 |
| 4.0                   | .69                             | .60  | .53  | .67  | .59  | .52  | .65  | .57  | .51  | .62  | .56  | .51  | .60  | .54  | .50  | .47 |
| 5.0                   | .61                             | .52  | .45  | .60  | .52  | .45  | .58  | .50  | .44  | .56  | .49  | .44  | .54  | .48  | .43  | .41 |
| 6.0                   | .55                             | .46  | .40  | .54  | .46  | .39  | .52  | .44  | .39  | .50  | .44  | .38  | .49  | .43  | .38  | .36 |
| 7.0                   | .50                             | .41  | .35  | .49  | .41  | .35  | .47  | .40  | .34  | .46  | .39  | .34  | .44  | .38  | .34  | .31 |
| 8.0                   | .46                             | .37  | .31  | .45  | .37  | .31  | .43  | .36  | .31  | .42  | .35  | .30  | .41  | .35  | .30  | .28 |
| 9.0                   | .42                             | .33  | .28  | .41  | .33  | .28  | .40  | .33  | .28  | .39  | .32  | .27  | .38  | .31  | .27  | .25 |
| 10.0                  | .39                             | .31  | .25  | .38  | .30  | .25  | .37  | .30  | .25  | .36  | .29  | .25  | .35  | .29  | .25  | .23 |



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:  
 Test Date:2025-03-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
 Humidity:56%  
 Test Distance:11.834m [K=1.0000]  
 Remarks:

Checker: CHENXIAOFU

Assessor: Ju Hongli

## WEC AND CCEC

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |

| ρ <sub>CC</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| ρ <sub>W</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| ρ <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0             |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0             | .330                  | .187 | .059 | .322 | .184 | .058 | .308                            | .177 | .056 | .295 | .170 | .055 | .283 | .164 | .053 |   |  |
| 2.0             | .303                  | .166 | .051 | .296 | .163 | .050 | .284                            | .158 | .049 | .272 | .153 | .048 | .261 | .148 | .047 |   |  |
| 3.0             | .277                  | .148 | .044 | .272 | .145 | .044 | .260                            | .141 | .043 | .250 | .137 | .042 | .240 | .133 | .041 |   |  |
| 4.0             | .254                  | .132 | .039 | .249 | .130 | .039 | .239                            | .127 | .038 | .230 | .124 | .037 | .221 | .120 | .037 |   |  |
| 5.0             | .234                  | .119 | .035 | .230 | .118 | .034 | .221                            | .115 | .034 | .212 | .112 | .033 | .205 | .109 | .033 |   |  |
| 6.0             | .217                  | .109 | .031 | .212 | .107 | .031 | .204                            | .105 | .030 | .197 | .102 | .030 | .190 | .100 | .030 |   |  |
| 7.0             | .201                  | .099 | .028 | .197 | .098 | .028 | .190                            | .096 | .028 | .184 | .094 | .027 | .177 | .092 | .027 |   |  |
| 8.0             | .188                  | .092 | .026 | .184 | .091 | .026 | .178                            | .089 | .025 | .172 | .087 | .025 | .166 | .085 | .025 |   |  |
| 9.0             | .175                  | .085 | .024 | .172 | .084 | .024 | .167                            | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 |   |  |
| 10.0            | .165                  | .079 | .022 | .162 | .078 | .022 | .157                            | .077 | .022 | .152 | .075 | .021 | .147 | .074 | .021 |   |  |

| ρ <sub>CC</sub> | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-----------------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| ρ <sub>W</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρ <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0             | .202                  | .202 | .202 | .173 | .173 | .173 | .118                                       | .118 | .118 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0             | .193                  | .168 | .144 | .165 | .144 | .124 | .113                                       | .099 | .086 | .065 | .057 | .050 | .021 | .018 | .016 |   |
| 2.0             | .185                  | .144 | .108 | .159 | .124 | .094 | .109                                       | .085 | .065 | .063 | .050 | .038 | .020 | .016 | .012 |   |
| 3.0             | .178                  | .126 | .085 | .152 | .109 | .074 | .105                                       | .076 | .052 | .060 | .044 | .030 | .019 | .014 | .010 |   |
| 4.0             | .170                  | .113 | .069 | .146 | .098 | .060 | .100                                       | .068 | .042 | .058 | .040 | .025 | .019 | .013 | .008 |   |
| 5.0             | .162                  | .103 | .058 | .139 | .089 | .051 | .096                                       | .062 | .036 | .056 | .036 | .021 | .018 | .012 | .007 |   |
| 6.0             | .155                  | .094 | .051 | .133 | .082 | .044 | .092                                       | .057 | .031 | .053 | .034 | .019 | .017 | .011 | .006 |   |
| 7.0             | .148                  | .087 | .045 | .127 | .076 | .039 | .088                                       | .053 | .028 | .051 | .031 | .016 | .017 | .010 | .005 |   |
| 8.0             | .142                  | .082 | .040 | .122 | .071 | .035 | .084                                       | .050 | .025 | .049 | .029 | .015 | .016 | .010 | .005 |   |
| 9.0             | .135                  | .077 | .037 | .117 | .067 | .032 | .081                                       | .047 | .023 | .047 | .028 | .014 | .015 | .009 | .005 |   |
| 10.0            | .130                  | .072 | .034 | .112 | .063 | .030 | .078                                       | .044 | .021 | .045 | .026 | .013 | .015 | .009 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:  
 Test Date:2025-03-24

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
 Humidity:56%  
 Test Distance:11.834m [K=1.0000]  
 Remarks:

Checker: CHENXIAOFU

Assessor: Ju Hongli

## UGR(Unified Glare Rating) Table

|                                                                         |               |                  |      |      |      |               |                |      |                       |      |      |
|-------------------------------------------------------------------------|---------------|------------------|------|------|------|---------------|----------------|------|-----------------------|------|------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |               |                  |      |      |      |               |                |      |                       |      |      |
| NAME: BHD3S-TC-S-11W-6500K                                              |               |                  |      |      |      | TYPE:LED      |                |      | WEIGHT:               |      |      |
| SPEC.:0028920257 11W 6500K 1000lm                                       |               |                  |      |      |      | DIM.:         |                |      | SERIAL No.:250328001G |      |      |
| MFR.: LIT by CARDI                                                      |               |                  |      |      |      | SUR.:         |                |      | Shielding Angle:      |      |      |
| ceiling/cavity                                                          | 0.7           | 0.7              | 0.5  | 0.5  | 0.3  | 0.7           | 0.7            | 0.5  | 0.5                   | 0.3  |      |
| walls                                                                   | 0.5           | 0.3              | 0.5  | 0.3  | 0.3  | 0.5           | 0.3            | 0.5  | 0.3                   | 0.3  |      |
| working plane                                                           | 0.2           | 0.2              | 0.2  | 0.2  | 0.2  | 0.2           | 0.2            | 0.2  | 0.2                   | 0.2  |      |
| Room dimensions                                                         |               | Viewed crosswise |      |      |      |               | Viewed endwise |      |                       |      |      |
| x = 2H y = 2H                                                           | 2H            | 24.6             | 26.1 | 24.9 | 26.4 | 26.6          | 24.7           | 26.2 | 25.0                  | 26.4 | 26.7 |
|                                                                         | 3H            | 26.2             | 27.6 | 26.6 | 27.9 | 28.2          | 26.3           | 27.7 | 26.6                  | 28.0 | 28.3 |
|                                                                         | 4H            | 26.9             | 28.3 | 27.3 | 28.6 | 28.8          | 27.0           | 28.4 | 27.4                  | 28.6 | 28.9 |
|                                                                         | 6H            | 27.5             | 28.8 | 27.9 | 29.1 | 29.4          | 27.6           | 28.9 | 28.0                  | 29.2 | 29.5 |
|                                                                         | 8H            | 27.8             | 29.0 | 28.1 | 29.3 | 29.6          | 27.9           | 29.1 | 28.2                  | 29.4 | 29.7 |
|                                                                         | 12H           | 28.0             | 29.2 | 28.4 | 29.5 | 29.8          | 28.1           | 29.3 | 28.5                  | 29.6 | 30.0 |
| 4H                                                                      | 2H            | 25.3             | 26.6 | 25.6 | 26.9 | 27.2          | 25.3           | 26.6 | 25.6                  | 26.9 | 27.2 |
|                                                                         | 3H            | 27.1             | 28.3 | 27.4 | 28.6 | 28.9          | 27.1           | 28.3 | 27.5                  | 28.6 | 29.0 |
|                                                                         | 4H            | 27.9             | 29.0 | 28.3 | 29.3 | 29.7          | 28.0           | 29.1 | 28.4                  | 29.4 | 29.8 |
|                                                                         | 6H            | 28.6             | 29.6 | 29.1 | 30.0 | 30.4          | 28.7           | 29.7 | 29.2                  | 30.1 | 30.5 |
|                                                                         | 8H            | 29.0             | 29.9 | 29.4 | 30.3 | 30.7          | 29.1           | 30.0 | 29.5                  | 30.4 | 30.8 |
|                                                                         | 12H           | 29.3             | 30.1 | 29.7 | 30.5 | 30.9          | 29.4           | 30.2 | 29.8                  | 30.6 | 31.1 |
| 8H                                                                      | 4H            | 28.2             | 29.1 | 28.7 | 29.5 | 30.0          | 28.3           | 29.2 | 28.7                  | 29.6 | 30.0 |
|                                                                         | 6H            | 29.2             | 29.9 | 29.6 | 30.3 | 30.8          | 29.2           | 30.0 | 29.7                  | 30.4 | 30.9 |
|                                                                         | 8H            | 29.6             | 30.3 | 30.1 | 30.7 | 31.2          | 29.7           | 30.4 | 30.2                  | 30.8 | 31.3 |
|                                                                         | 12H           | 30.0             | 30.6 | 30.5 | 31.1 | 31.6          | 30.2           | 30.7 | 30.7                  | 31.2 | 31.7 |
| 12H                                                                     | 4H            | 28.3             | 29.1 | 28.7 | 29.5 | 30.0          | 28.3           | 29.2 | 28.8                  | 29.6 | 30.0 |
|                                                                         | 6H            | 29.3             | 29.9 | 29.7 | 30.4 | 30.9          | 29.3           | 30.0 | 29.8                  | 30.5 | 31.0 |
|                                                                         | 8H            | 29.8             | 30.3 | 30.3 | 30.8 | 31.3          | 29.9           | 30.4 | 30.4                  | 30.9 | 31.4 |
| Variations with the observer position at spacings:                      |               |                  |      |      |      |               |                |      |                       |      |      |
| S = 1.0H                                                                | + 0.1 / - 0.2 |                  |      |      |      | + 0.1 / - 0.2 |                |      |                       |      |      |
| 1.5H                                                                    | + 0.2 / - 0.3 |                  |      |      |      | + 0.2 / - 0.3 |                |      |                       |      |      |
| 2.0H                                                                    | + 0.1 / - 0.3 |                  |      |      |      | + 0.1 / - 0.3 |                |      |                       |      |      |

CIE Pub.117, 1030 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 0.1$ )

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

Checker: CHENXIAOFU

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Assessor: Ju Hongli

## UTILIZATION FACTORS TABLE

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |

| REFLECTANCE                      |                                                     |     |           |     |     |     |     |              |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|--------------|-----|--------|
| Ceiling                          | 0.8                                                 | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5          | 0.5 | 0      |
| Walls                            | 0.7                                                 | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5          | 0.3 | 0      |
| Working plane                    | 0.2                                                 | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2          | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |              |     |        |
| $k = 0.60$                       | 56                                                  | 44  | 37        | 55  | 44  | 37  | 54  | 44           | 37  | 30     |
| 0.80                             | 66                                                  | 54  | 47        | 65  | 54  | 46  | 63  | 53           | 46  | 39     |
| 1.00                             | 74                                                  | 63  | 55        | 73  | 62  | 55  | 71  | 64           | 54  | 47     |
| 1.25                             | 81                                                  | 70  | 63        | 80  | 70  | 63  | 77  | 68           | 62  | 54     |
| 1.50                             | 86                                                  | 76  | 69        | 85  | 75  | 68  | 81  | 73           | 67  | 59     |
| 2.00                             | 93                                                  | 84  | 77        | 91  | 83  | 77  | 88  | 81           | 75  | 67     |
| 2.50                             | 97                                                  | 89  | 83        | 95  | 88  | 82  | 91  | 85           | 80  | 71     |
| 3.00                             | 101                                                 | 93  | 87        | 98  | 92  | 86  | 94  | 89           | 84  | 75     |
| 4.00                             | 105                                                 | 99  | 94        | 102 | 97  | 92  | 98  | 93           | 89  | 80     |
| 5.00                             | 107                                                 | 102 | 98        | 105 | 100 | 96  | 100 | 96           | 93  | 83     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |              |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:  
 Test Date:2025-03-24

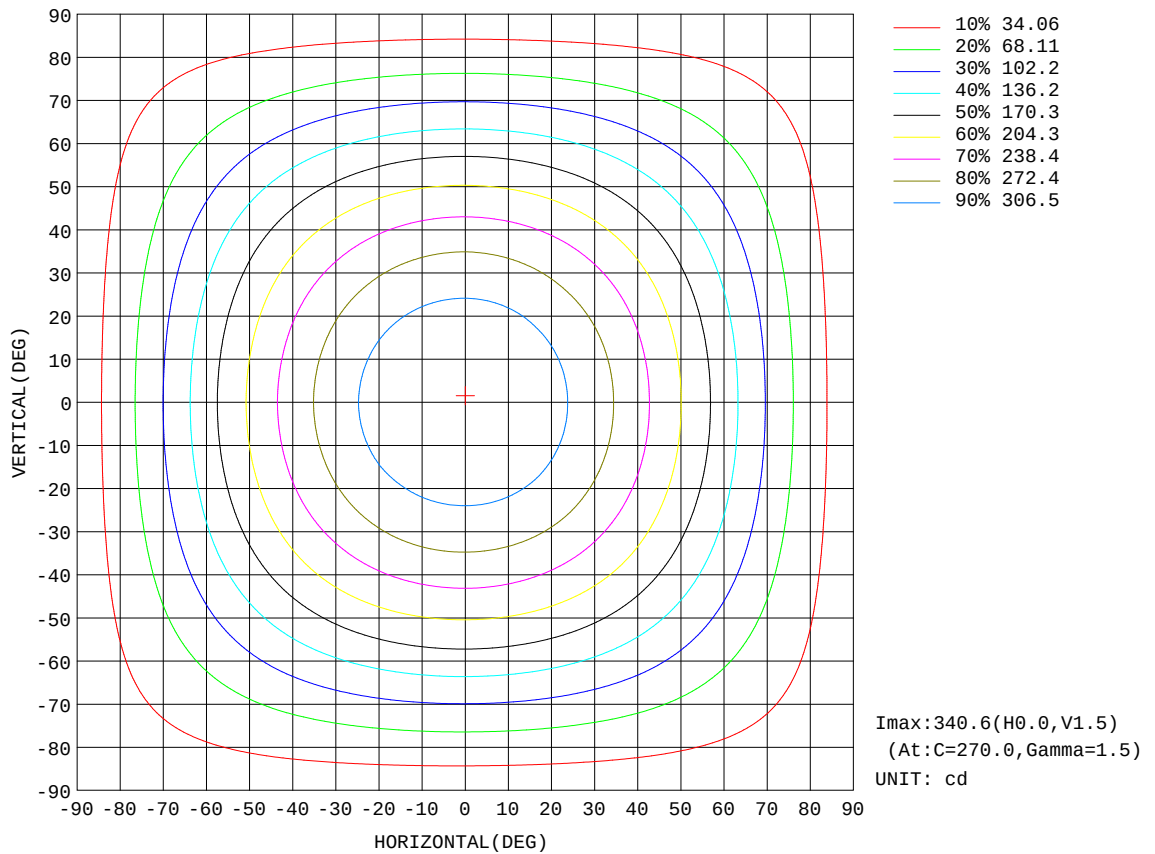
Checker: CHENXIAOFU

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 $\gamma$  Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
 Humidity:56%  
 Test Distance:11.834m [K=1.0000]  
 Remarks:

Assessor: Ju Hongli

## ISOCANDELA DIAGRAM

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:  
 Test Date:2025-03-24

Checker: CHENXIAOFU

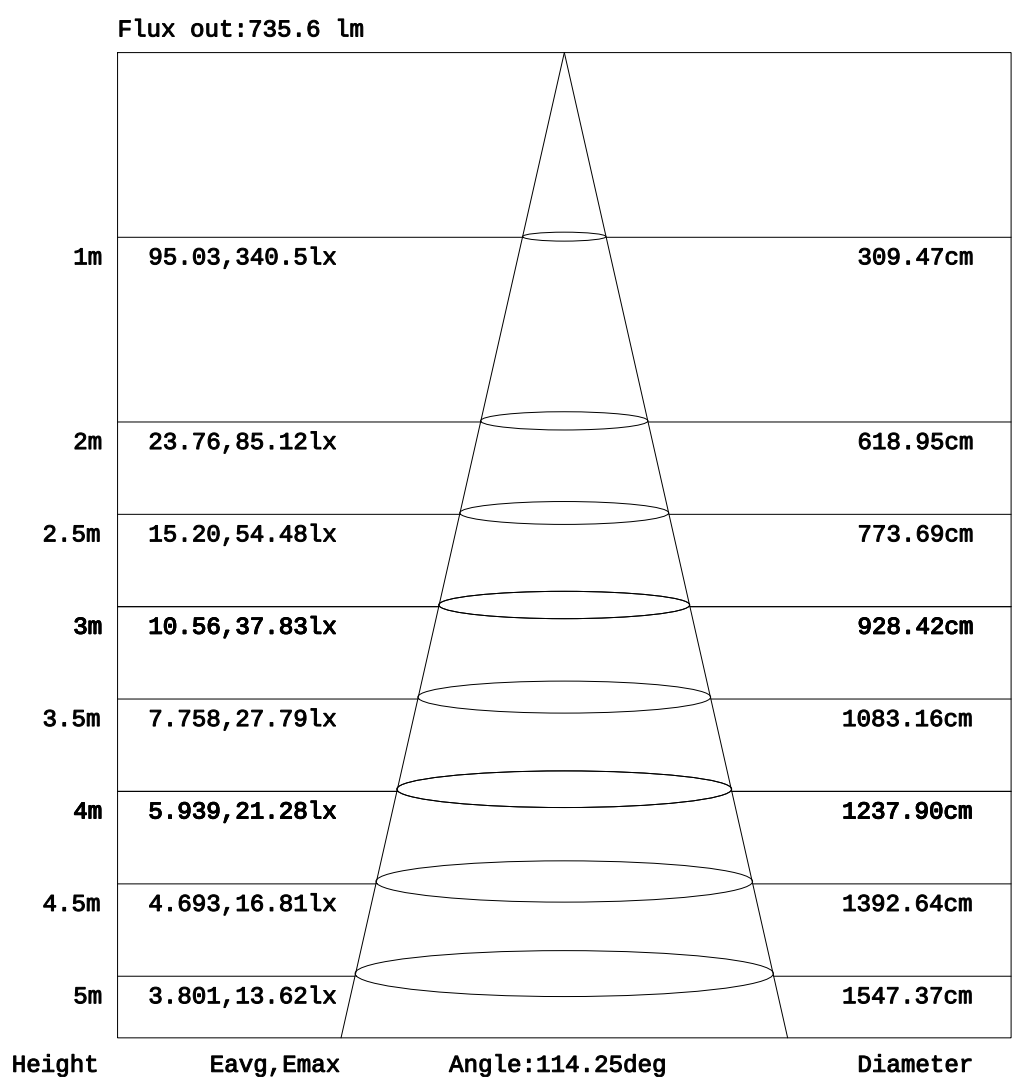
γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
 Humidity:56%  
 Test Distance:11.834m [K=1.0000]  
 Remarks:

Assessor: Ju Hongli



## AAI Figure

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |



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

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

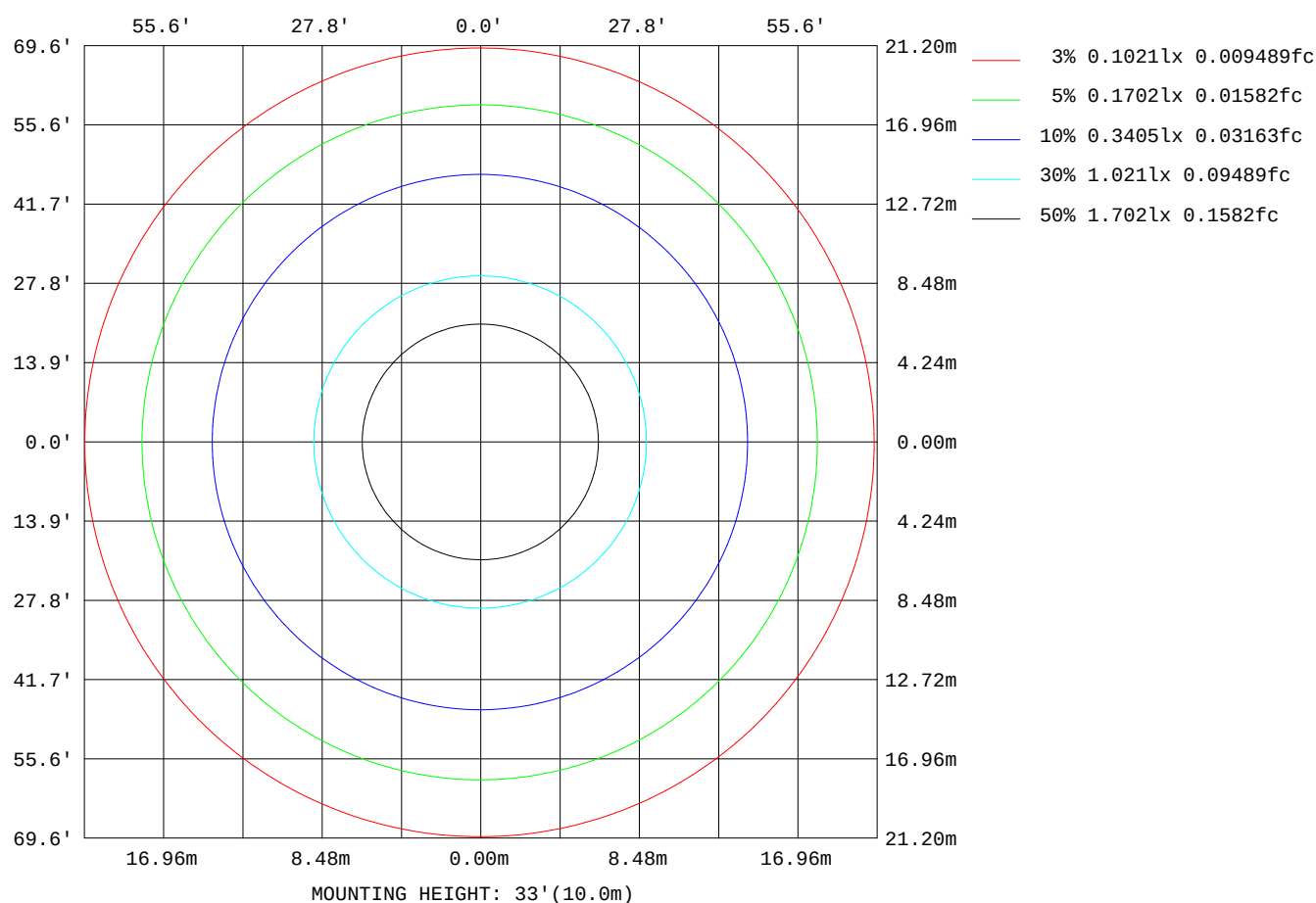
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Checker: CHENXIAOFU

Assessor: Ju Hongli

# ISOLUX DIAGRAM

|                                                                         |           |                       |
|-------------------------------------------------------------------------|-----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |           |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE: LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:     | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:     | Shielding Angle:      |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Checker: CHENXIAOFU

Assessor: Ju Hongli

## LED Avg.L Report

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |

| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 30358 |
| L_0~180(75)av  | 28889 |
| L_0~180(85)av  | 35414 |
| L_90~270(65)av | 30288 |
| L_90~270(75)av | 28923 |
| L_90~270(85)av | 36101 |
| L_45(65)av     | 30320 |
| L_45(75)av     | 28907 |
| L_45(85)av     | 35785 |

Standard: GB/T 29293-2012

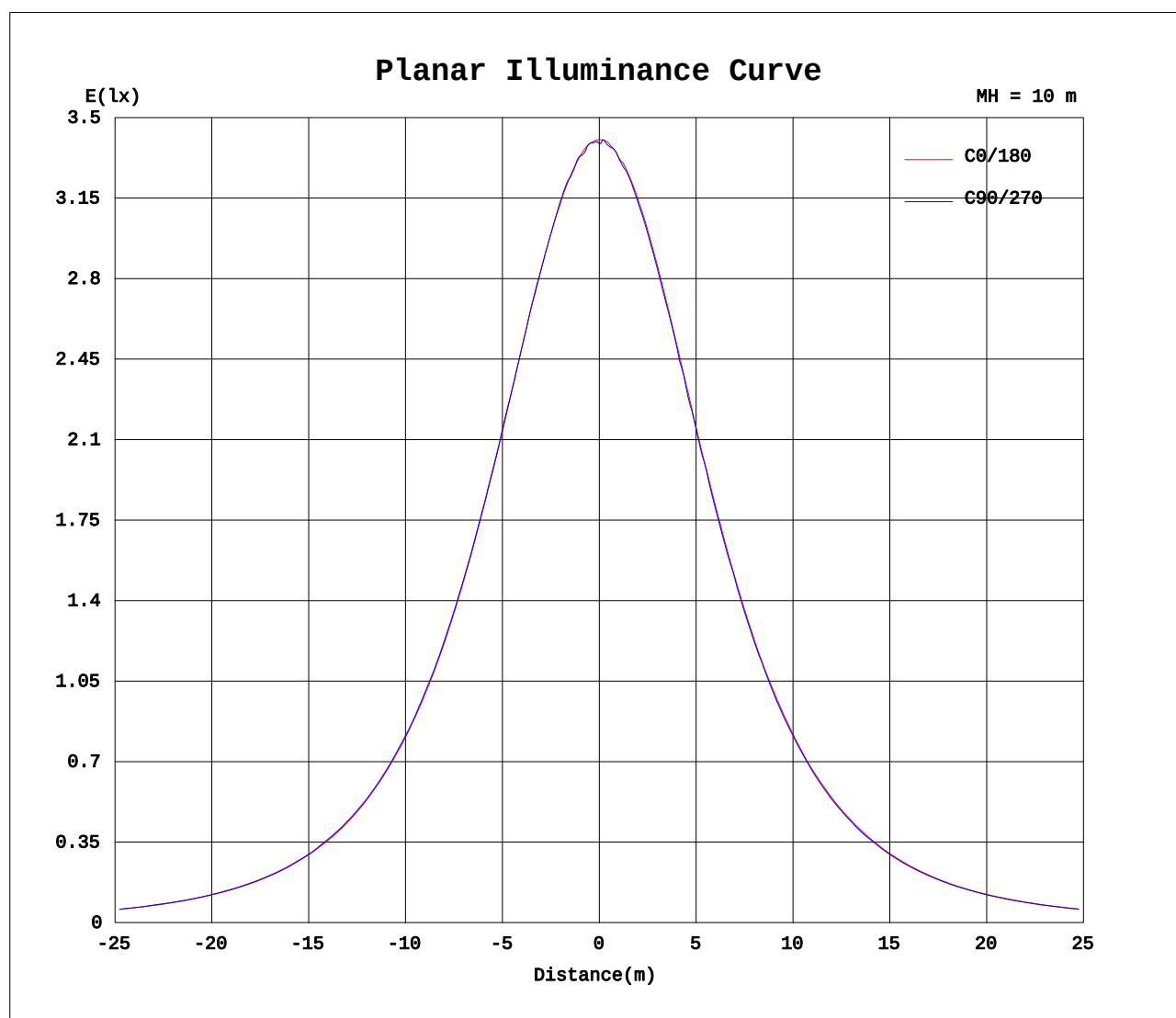
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

Checker: CHENXIAOFU

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Assessor: Ju Hongli

# Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators:  
Test Date: 2025-03-24

Checker: CHENXIAOFU

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity: 56%  
Test Distance: 11.834m [K=1.0000]  
Remarks:

Assessor: Ju Hongli

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                         |          |                       |
|-------------------------------------------------------------------------|----------|-----------------------|
| Test:U:220-240V I:0.065A P:11W PF:0.75 Freq:50.00Hz Lamp Flux:1000x1 lm |          |                       |
| NAME: BHD3S-TC-S-11W-6500K                                              | TYPE:LED | WEIGHT:               |
| SPEC.:0028920257 11W 6500K 1000lm                                       | DIM.:    | SERIAL No.:250328001G |
| MFR.: LIT by CARDI                                                      | SUR.:    | Shielding Angle:      |

Table--1

UNIT: cd

| C(DEC)  | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |    |    |    |    |    |    |    |    |    |    |
|---------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|----|----|----|----|
| γ (DEC) | 0    | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
| 0       | 340  | 340  | 339  | 340  | 340  | 340  | 339  | 340  |    |    |    |    |    |    |    |    |    |    |
| 5       | 339  | 338  | 338  | 338  | 339  | 339  | 339  | 338  |    |    |    |    |    |    |    |    |    |    |
| 10      | 334  | 334  | 335  | 334  | 335  | 335  | 334  | 333  |    |    |    |    |    |    |    |    |    |    |
| 15      | 326  | 327  | 326  | 327  | 328  | 327  | 327  | 326  |    |    |    |    |    |    |    |    |    |    |
| 20      | 317  | 316  | 317  | 317  | 318  | 317  | 317  | 316  |    |    |    |    |    |    |    |    |    |    |
| 25      | 303  | 304  | 304  | 305  | 306  | 305  | 303  | 303  |    |    |    |    |    |    |    |    |    |    |
| 30      | 288  | 288  | 289  | 290  | 291  | 289  | 289  | 288  |    |    |    |    |    |    |    |    |    |    |
| 35      | 270  | 271  | 272  | 272  | 273  | 272  | 272  | 270  |    |    |    |    |    |    |    |    |    |    |
| 40      | 250  | 251  | 251  | 252  | 253  | 252  | 252  | 250  |    |    |    |    |    |    |    |    |    |    |
| 45      | 228  | 229  | 230  | 231  | 232  | 230  | 230  | 228  |    |    |    |    |    |    |    |    |    |    |
| 50      | 205  | 206  | 207  | 207  | 208  | 207  | 206  | 204  |    |    |    |    |    |    |    |    |    |    |
| 55      | 180  | 181  | 182  | 183  | 183  | 181  | 182  | 179  |    |    |    |    |    |    |    |    |    |    |
| 60      | 153  | 155  | 156  | 157  | 157  | 155  | 154  | 153  |    |    |    |    |    |    |    |    |    |    |
| 65      | 127  | 128  | 129  | 130  | 130  | 128  | 127  | 127  |    |    |    |    |    |    |    |    |    |    |
| 70      | 99.9 | 101  | 102  | 103  | 102  | 101  | 100  | 99.8 |    |    |    |    |    |    |    |    |    |    |
| 75      | 73.6 | 75.0 | 75.4 | 76.1 | 75.9 | 74.5 | 74.3 | 73.6 |    |    |    |    |    |    |    |    |    |    |
| 80      | 49.6 | 51.1 | 51.6 | 52.2 | 51.4 | 50.8 | 50.9 | 50.2 |    |    |    |    |    |    |    |    |    |    |
| 85      | 30.1 | 31.1 | 31.7 | 32.1 | 31.6 | 31.0 | 31.2 | 30.6 |    |    |    |    |    |    |    |    |    |    |
| 90      | 15.4 | 16.2 | 16.9 | 17.1 | 16.8 | 16.2 | 16.4 | 15.9 |    |    |    |    |    |    |    |    |    |    |
| 95      | 6.07 | 5.33 | 7.16 | 4.26 | 7.14 | 4.06 | 6.98 | 5.51 |    |    |    |    |    |    |    |    |    |    |
| 100     | 1.46 | 0.89 | 0.81 | 0.80 | 1.73 | 0.74 | 0.79 | 0.80 |    |    |    |    |    |    |    |    |    |    |
| 105     | 0.93 | 0.97 | 0.90 | 0.94 | 0.91 | 0.81 | 0.92 | 0.82 |    |    |    |    |    |    |    |    |    |    |
| 110     | 1.15 | 1.14 | 1.14 | 1.10 | 1.03 | 0.94 | 1.12 | 0.97 |    |    |    |    |    |    |    |    |    |    |
| 115     | 1.17 | 1.28 | 1.27 | 1.25 | 1.17 | 1.14 | 1.20 | 1.16 |    |    |    |    |    |    |    |    |    |    |
| 120     | 1.29 | 1.47 | 1.46 | 1.45 | 1.29 | 1.17 | 1.36 | 1.28 |    |    |    |    |    |    |    |    |    |    |
| 125     | 1.45 | 1.57 | 1.61 | 1.60 | 1.44 | 1.31 | 1.55 | 1.51 |    |    |    |    |    |    |    |    |    |    |
| 130     | 1.60 | 1.71 | 1.79 | 1.76 | 1.60 | 1.44 | 1.72 | 1.57 |    |    |    |    |    |    |    |    |    |    |
| 135     | 1.80 | 1.87 | 1.95 | 1.74 | 1.78 | 1.61 | 1.87 | 1.74 |    |    |    |    |    |    |    |    |    |    |
| 140     | 1.92 | 1.97 | 2.08 | 1.86 | 1.91 | 1.82 | 2.00 | 1.81 |    |    |    |    |    |    |    |    |    |    |
| 145     | 2.04 | 2.02 | 2.07 | 2.04 | 2.03 | 1.84 | 2.04 | 1.93 |    |    |    |    |    |    |    |    |    |    |
| 150     | 2.13 | 2.16 | 2.10 | 2.13 | 2.08 | 1.97 | 2.08 | 2.05 |    |    |    |    |    |    |    |    |    |    |
| 155     | 2.14 | 2.20 | 2.12 | 2.18 | 2.14 | 2.08 | 2.14 | 2.12 |    |    |    |    |    |    |    |    |    |    |
| 160     | 2.26 | 2.30 | 2.16 | 2.26 | 2.25 | 2.11 | 2.26 | 2.20 |    |    |    |    |    |    |    |    |    |    |
| 165     | 2.33 | 2.53 | 2.41 | 2.36 | 2.31 | 2.28 | 2.46 | 2.48 |    |    |    |    |    |    |    |    |    |    |
| 170     | 2.47 | 2.71 | 2.47 | 2.51 | 2.46 | 2.44 | 2.69 | 2.54 |    |    |    |    |    |    |    |    |    |    |
| 175     | 2.74 | 2.97 | 2.67 | 2.66 | 2.69 | 2.65 | 2.87 | 2.81 |    |    |    |    |    |    |    |    |    |    |
| 180     | 3.19 | 3.20 | 3.11 | 3.11 | 3.17 | 3.15 | 3.15 | 3.11 |    |    |    |    |    |    |    |    |    |    |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:  
Test Date:2025-03-24

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000A\_V1 SYSTEM V2.0.366  
Humidity:56%  
Test Distance:11.834m [K=1.0000]  
Remarks:

Checker: CHENXIAOFU

Assessor: Ju Hongli