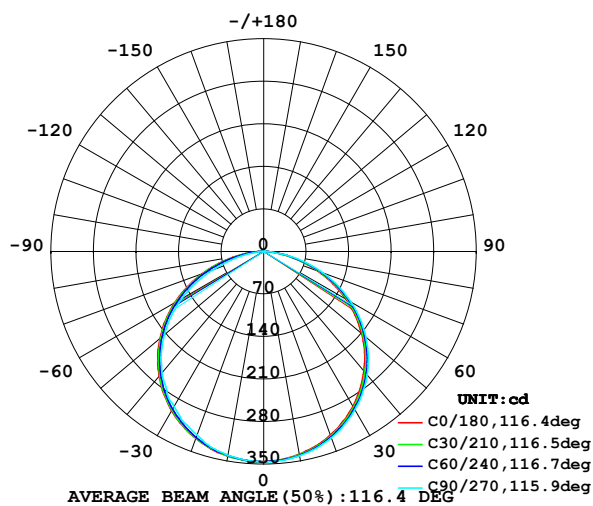


LUMINAIRE PHOTOMETRIC TEST REPORT

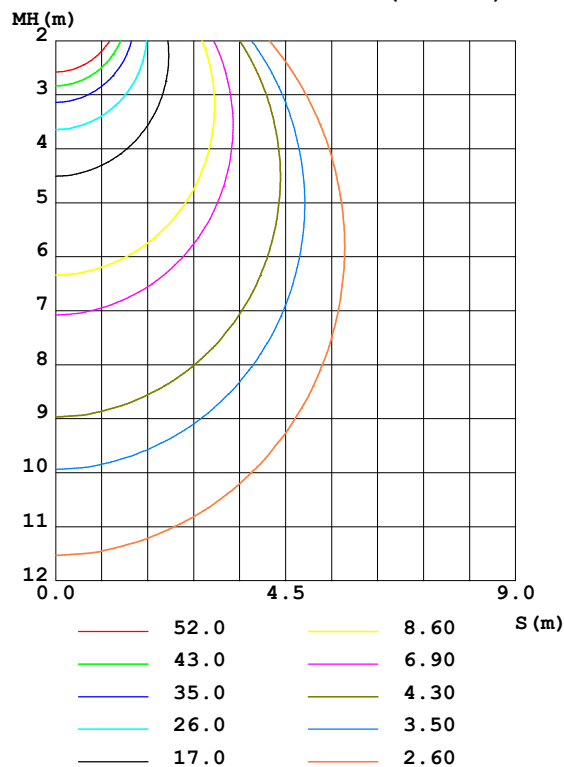
| | | |
|---|----------------|-------------|
| Test:U:12.00V I:0.8270A P:9.924W PF:1.000 Lamp Flux:1032.8x1 lm | | |
| NAME: LED Soft light bar | SUR.:0.1m*1.0m | SERIAL No.: |
| | | |
| | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 104.07 lm/W | | | |
|------------------|-------------|-----------------------------------|--------|-------------------|----------|
| MODEL | EKF4496HL90 | I _{max} (cd) | 346.3 | S/MH(C0/180) | 1.30 |
| NOMINAL POWER(W) | / | LOR(%) | 100.0 | S/MH(C90/270) | 1.28 |
| RATED VOLTAGE(V) | 12 | TOTAL FLUX(lm) | 1032.8 | η UP,DN(C0-180) | 0.2,50.1 |
| NOMINAL FLUX(lm) | 1032.8 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.2,49.5 |
| LAMPS INSIDE | 1 | η up(%) | 0.5 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 12 | η down(%) | 99.5 | CIBSE SHR MAX | 1.35 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.1DEG
 Operators: Bo Zou
 Test Date: 2021-05-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 33.6%
 Test Distance: 10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

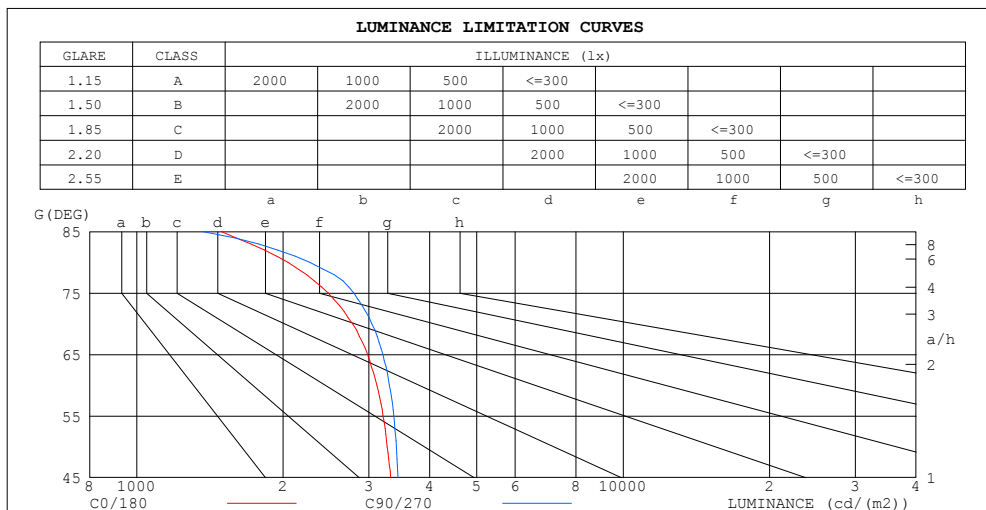
Checker: Bo Zou

Assessor: Chunbo Zou

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 338.4 | 340.6 | 341.4 | 342.3 | 342.1 | 341.2 | 340.5 | 339.2 | 0- 10 | 32.77 | 32.77 | 3.17,3.17 |
| 20 | 321.4 | 323.6 | 326.2 | 327.6 | 327.6 | 326.0 | 321.2 | 322.4 | 10- 20 | 94.33 | 127.1 | 12.3,12.3 |
| 30 | 294.4 | 297.2 | 300.7 | 302.8 | 303.2 | 300.7 | 294.9 | 295.3 | 20- 30 | 144.4 | 271.5 | 26.3,26.3 |
| 40 | 256.6 | 261.0 | 265.0 | 267.5 | 268.0 | 264.9 | 260.6 | 257.9 | 30- 40 | 176.4 | 447.9 | 43.4,43.4 |
| 50 | 210.4 | 215.2 | 219.8 | 222.6 | 223.1 | 219.8 | 213.2 | 211.4 | 40- 50 | 185.9 | 633.7 | 61.4,61.4 |
| 60 | 155.9 | 160.7 | 165.4 | 168.7 | 169.6 | 165.6 | 155.8 | 156.8 | 50- 60 | 170.5 | 804.2 | 77.9,77.9 |
| 70 | 94.93 | 99.66 | 104.1 | 107.7 | 108.5 | 104.0 | 89.43 | 95.40 | 60- 70 | 131.0 | 935.3 | 90.6,90.6 |
| 80 | 35.49 | 38.41 | 39.38 | 45.31 | 46.46 | 42.12 | 29.34 | 35.34 | 70- 80 | 73.77 | 1009 | 97.7,97.7 |
| 90 | 1.743 | 1.971 | 0.0475 | 4.389 | 5.115 | 3.201 | 0.0136 | 1.716 | 80- 90 | 18.92 | 1028 | 99.5,99.5 |
| 100 | 0.2619 | 0.2367 | 0.1284 | 0.3379 | 0.2567 | 0.2082 | 0.1555 | 0.1815 | 90-100 | 0.8313 | 1029 | 99.6,99.6 |
| 110 | 0.3715 | 0.4396 | 0.3581 | 0.5543 | 0.4057 | 0.3447 | 0.3650 | 0.3307 | 100-110 | 0.3295 | 1029 | 99.6,99.6 |
| 120 | 0.5877 | 0.6422 | 0.5811 | 0.7772 | 0.6084 | 0.5671 | 0.5947 | 0.5470 | 110-120 | 0.5199 | 1030 | 99.7,99.7 |
| 130 | 0.8041 | 0.8652 | 0.8015 | 0.9867 | 0.8245 | 0.8039 | 0.8042 | 0.7974 | 120-130 | 0.6594 | 1030 | 99.8,99.8 |
| 140 | 0.9999 | 1.047 | 0.9999 | 1.163 | 1.007 | 0.9525 | 0.9866 | 0.9257 | 130-140 | 0.7214 | 1031 | 99.8,99.8 |
| 150 | 1.128 | 1.189 | 1.128 | 1.297 | 1.156 | 1.102 | 1.149 | 1.081 | 140-150 | 0.6840 | 1032 | 99.9,99.9 |
| 160 | 1.237 | 1.304 | 1.237 | 1.359 | 1.291 | 1.230 | 1.270 | 1.210 | 150-160 | 0.5641 | 1032 | 100,100 |
| 170 | 1.338 | 1.375 | 1.342 | 1.363 | 1.362 | 1.341 | 1.354 | 1.333 | 160-170 | 0.3736 | 1033 | 100,100 |
| 180 | 1.385 | 1.385 | 1.365 | 1.358 | 1.385 | 1.372 | 1.372 | 1.358 | 170-180 | 0.1304 | 1033 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 1493 | 1365 |
| 80 | 2044 | 2268 |
| 75 | 2474 | 2793 |
| 70 | 2776 | 3043 |
| 65 | 2981 | 3209 |
| 60 | 3118 | 3308 |
| 55 | 3209 | 3376 |
| 50 | 3273 | 3420 |
| 45 | 3324 | 3443 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.1DEG
 Operators:Bo Zou
 Test Date:2021-05-17

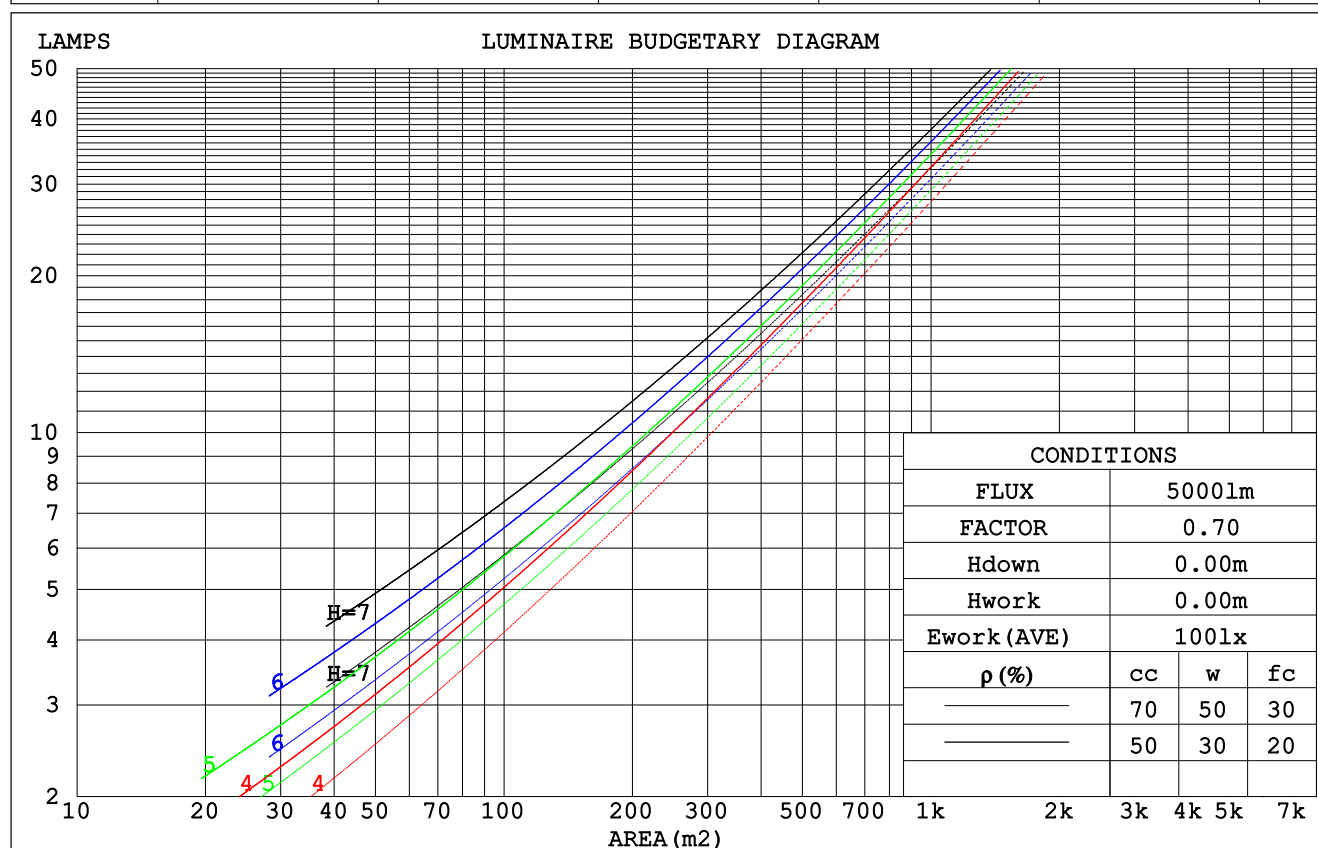
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:33.6%
 Test Distance:10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| 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 | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 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 | 1.04 | .99 | .95 | 1.01 | .97 | .94 | .97 | .94 | .91 | .93 | .90 | .88 | .89 | .87 | .85 | .83 |
| 2.0 | .90 | .83 | .77 | .88 | .82 | .76 | .85 | .79 | .75 | .81 | .77 | .73 | .78 | .74 | .71 | .69 |
| 3.0 | .79 | .71 | .64 | .77 | .70 | .63 | .74 | .68 | .62 | .71 | .66 | .61 | .69 | .64 | .60 | .58 |
| 4.0 | .70 | .61 | .54 | .68 | .60 | .54 | .66 | .59 | .53 | .63 | .57 | .52 | .61 | .56 | .51 | .49 |
| 5.0 | .62 | .53 | .46 | .61 | .52 | .46 | .59 | .51 | .46 | .57 | .50 | .45 | .55 | .49 | .44 | .42 |
| 6.0 | .56 | .47 | .40 | .55 | .46 | .40 | .53 | .45 | .40 | .51 | .45 | .39 | .50 | .44 | .39 | .37 |
| 7.0 | .51 | .42 | .36 | .50 | .41 | .35 | .48 | .41 | .35 | .47 | .40 | .35 | .45 | .39 | .34 | .32 |
| 8.0 | .46 | .38 | .32 | .45 | .37 | .32 | .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 | .26 | .37 | .30 | .25 | .36 | .30 | .25 | .36 | .30 | .25 | .23 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.1DEG
 Operators: Bo Zou
 Test Date: 2021-05-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 33.6%
 Test Distance: 10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

WEC AND CCEC

| 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 | .312 | .177 | .056 | .305 | .174 | .055 | .291 | .167 | .053 | .279 | .161 | .052 | .267 | .155 | .050 | |
| 2.0 | .294 | .161 | .049 | .288 | .158 | .049 | .276 | .153 | .048 | .265 | .148 | .046 | .254 | .144 | .045 | |
| 3.0 | .272 | .145 | .043 | .266 | .143 | .043 | .256 | .139 | .042 | .246 | .135 | .041 | .237 | .131 | .041 | |
| 4.0 | .251 | .130 | .038 | .246 | .129 | .038 | .237 | .126 | .037 | .228 | .122 | .037 | .220 | .119 | .036 | |
| 5.0 | .232 | .118 | .034 | .228 | .117 | .034 | .219 | .114 | .034 | .211 | .112 | .033 | .204 | .109 | .033 | |
| 6.0 | .215 | .108 | .031 | .211 | .107 | .031 | .204 | .104 | .030 | .197 | .102 | .030 | .190 | .100 | .030 | |
| 7.0 | .200 | .099 | .028 | .197 | .098 | .028 | .190 | .096 | .028 | .184 | .094 | .027 | .178 | .092 | .027 | |
| 8.0 | .187 | .091 | .026 | .184 | .090 | .026 | .178 | .089 | .025 | .172 | .087 | .025 | .167 | .086 | .025 | |
| 9.0 | .175 | .085 | .024 | .172 | .084 | .024 | .167 | .082 | .023 | .162 | .081 | .023 | .157 | .080 | .023 | |
| 10.0 | .164 | .079 | .022 | .162 | .078 | .022 | .157 | .077 | .022 | .152 | .076 | .022 | .148 | .075 | .021 | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients (CCEC) | | | | | | | | | |
| 0.0 | .194 | .194 | .194 | .166 | .166 | .166 | .113 | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 | |
| 1.0 | .184 | .160 | .138 | .157 | .137 | .119 | .108 | .094 | .082 | .062 | .055 | .048 | .020 | .018 | .015 | |
| 2.0 | .176 | .136 | .101 | .151 | .117 | .088 | .103 | .081 | .061 | .060 | .047 | .036 | .019 | .015 | .012 | |
| 3.0 | .169 | .118 | .078 | .144 | .102 | .067 | .099 | .071 | .047 | .057 | .041 | .028 | .018 | .013 | .009 | |
| 4.0 | .161 | .105 | .062 | .138 | .090 | .054 | .095 | .063 | .038 | .055 | .037 | .022 | .018 | .012 | .007 | |
| 5.0 | .154 | .094 | .051 | .132 | .082 | .044 | .091 | .057 | .031 | .053 | .033 | .018 | .017 | .011 | .006 | |
| 6.0 | .146 | .086 | .043 | .126 | .074 | .037 | .087 | .052 | .026 | .050 | .031 | .016 | .016 | .010 | .005 | |
| 7.0 | .140 | .079 | .037 | .120 | .069 | .032 | .083 | .048 | .023 | .048 | .028 | .013 | .016 | .009 | .004 | |
| 8.0 | .133 | .073 | .032 | .115 | .064 | .028 | .079 | .045 | .020 | .046 | .026 | .012 | .015 | .009 | .004 | |
| 9.0 | .127 | .068 | .029 | .109 | .059 | .025 | .076 | .042 | .018 | .044 | .025 | .011 | .014 | .008 | .004 | |
| 10.0 | .121 | .064 | .026 | .105 | .056 | .023 | .073 | .039 | .016 | .042 | .023 | .010 | .014 | .008 | .003 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.1DEG
 Operators:Bo Zou
 Test Date:2021-05-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:33.6%
 Test Distance:10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| 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 | 16.9 | 18.4 | 17.2 | 18.7 | 18.9 | 17.1 | 18.7 | 17.4 | 18.9 | 19.1 |
| 3H | 18.4 | 19.8 | 18.7 | 20.0 | 20.3 | 18.7 | 20.1 | 19.0 | 20.4 | 20.6 |
| 4H | 18.9 | 20.3 | 19.3 | 20.5 | 20.8 | 19.3 | 20.7 | 19.6 | 20.9 | 21.2 |
| 6H | 19.3 | 20.5 | 19.6 | 20.8 | 21.1 | 19.7 | 21.0 | 20.1 | 21.3 | 21.6 |
| 8H | 19.4 | 20.6 | 19.7 | 20.9 | 21.2 | 19.8 | 21.0 | 20.2 | 21.3 | 21.6 |
| 12H | 19.4 | 20.6 | 19.7 | 20.9 | 21.2 | 19.8 | 21.0 | 20.2 | 21.3 | 21.6 |
| 4H 2H | 17.6 | 18.9 | 17.9 | 19.2 | 19.4 | 17.7 | 19.1 | 18.1 | 19.3 | 19.6 |
| 3H | 19.2 | 20.4 | 19.6 | 20.7 | 21.0 | 19.5 | 20.7 | 19.8 | 21.0 | 21.3 |
| 4H | 19.9 | 20.9 | 20.3 | 21.3 | 21.6 | 20.2 | 21.3 | 20.6 | 21.6 | 22.0 |
| 6H | 20.3 | 21.3 | 20.7 | 21.6 | 22.0 | 20.7 | 21.7 | 21.1 | 22.0 | 22.4 |
| 8H | 20.4 | 21.3 | 20.9 | 21.7 | 22.1 | 20.9 | 21.7 | 21.3 | 22.1 | 22.5 |
| 12H | 20.5 | 21.3 | 20.9 | 21.7 | 22.1 | 20.9 | 21.7 | 21.3 | 22.1 | 22.5 |
| 8H 4H | 20.1 | 21.0 | 20.6 | 21.4 | 21.8 | 20.4 | 21.3 | 20.9 | 21.7 | 22.1 |
| 6H | 20.7 | 21.5 | 21.2 | 21.9 | 22.3 | 21.1 | 21.8 | 21.5 | 22.2 | 22.7 |
| 8H | 20.9 | 21.6 | 21.4 | 22.0 | 22.5 | 21.3 | 21.9 | 21.7 | 22.4 | 22.8 |
| 12H | 21.0 | 21.6 | 21.5 | 22.0 | 22.5 | 21.4 | 22.0 | 21.9 | 22.4 | 22.9 |
| 12H 4H | 20.1 | 21.0 | 20.6 | 21.4 | 21.8 | 20.4 | 21.3 | 20.9 | 21.6 | 22.1 |
| 6H | 20.8 | 21.4 | 21.2 | 21.8 | 22.3 | 21.1 | 21.8 | 21.6 | 22.2 | 22.7 |
| 8H | 21.0 | 21.5 | 21.5 | 22.0 | 22.5 | 21.3 | 21.9 | 21.8 | 22.4 | 22.9 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117 Corrected 1033 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.1)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.1DEG
 Operators:Bo Zou
 Test Date:2021-05-17

Checker: Bo Zou

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:33.6%
 Test Distance:10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

Assessor: Chunbo Zou

UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 57 | 45 | 38 | 56 | 45 | 38 | 55 | 44 | 38 | 31 |
| 0.80 | 67 | 55 | 48 | 66 | 55 | 47 | 64 | 54 | 47 | 40 |
| 1.00 | 75 | 64 | 57 | 74 | 63 | 56 | 72 | 65 | 56 | 49 |
| 1.25 | 82 | 72 | 65 | 81 | 71 | 64 | 78 | 70 | 63 | 56 |
| 1.50 | 88 | 78 | 70 | 86 | 77 | 70 | 83 | 75 | 69 | 61 |
| 2.00 | 95 | 86 | 79 | 93 | 85 | 78 | 89 | 82 | 77 | 69 |
| 2.50 | 98 | 91 | 84 | 96 | 89 | 84 | 92 | 86 | 82 | 73 |
| 3.00 | 102 | 95 | 89 | 100 | 93 | 88 | 96 | 90 | 86 | 77 |
| 4.00 | 106 | 100 | 95 | 104 | 98 | 94 | 99 | 95 | 91 | 82 |
| 5.00 | 108 | 104 | 99 | 106 | 102 | 98 | 101 | 98 | 95 | 85 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

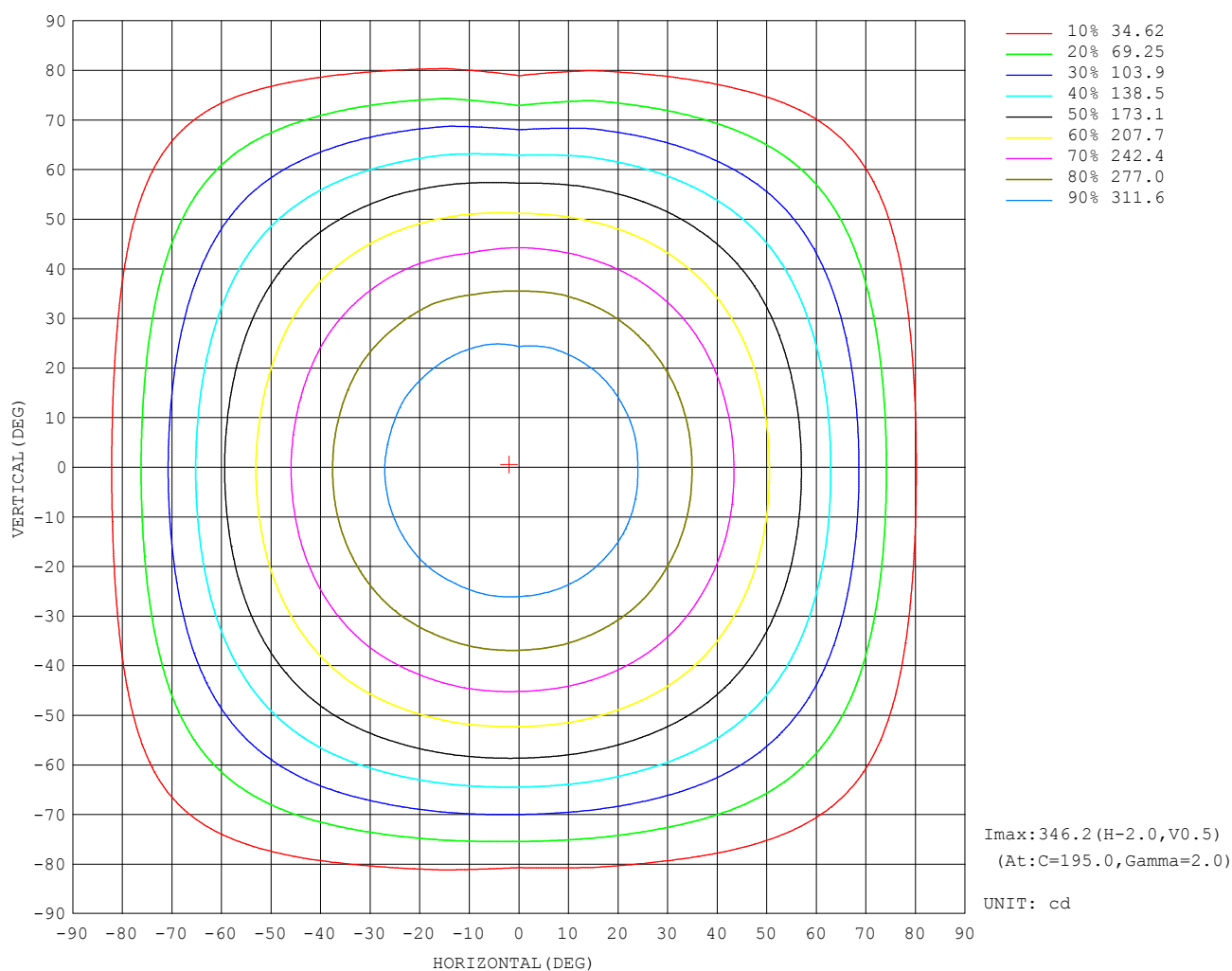
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.1DEG
 Operators: Bo Zou
 Test Date: 2021-05-17

Checker: Bo Zou

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity: 33.6%
 Test Distance: 10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

Assessor: Chunbo Zou

ISOCANDELA DIAGRAM



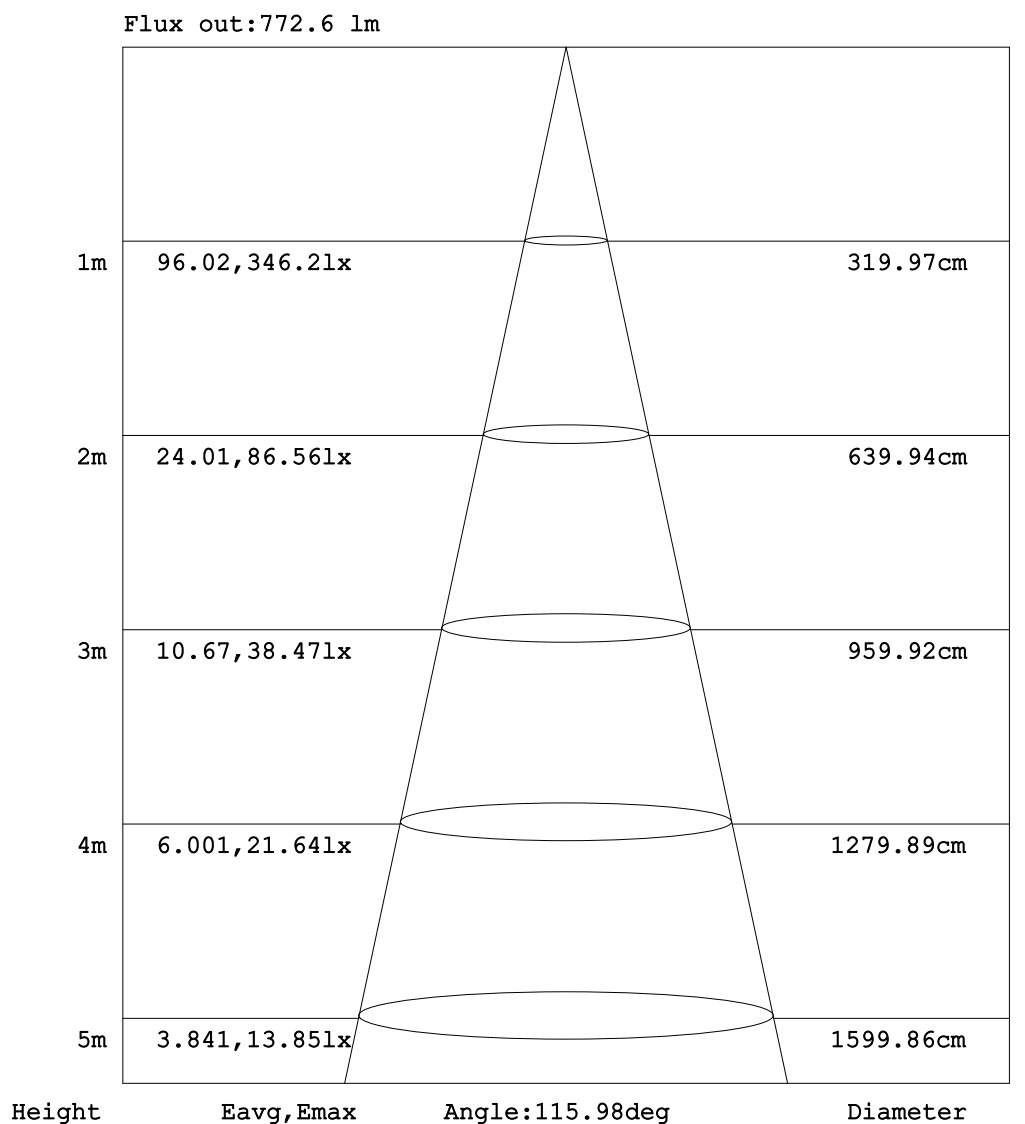
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.1DEG
Operators: Bo Zou
Test Date: 2021-05-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity: 33.6%
Test Distance: 10.149m [K=1.0000]
Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

AAI Figure



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

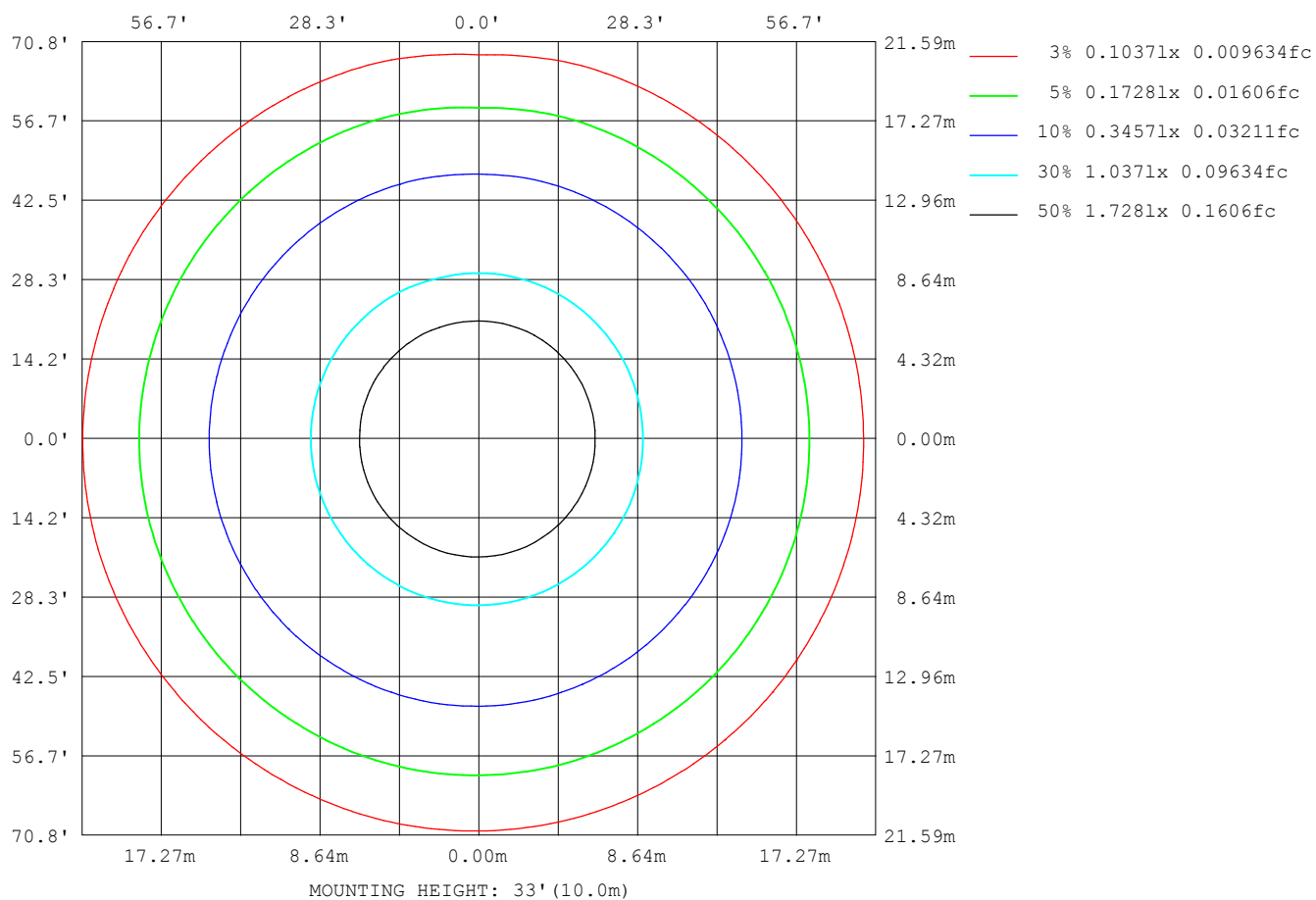
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.1DEG
Operators:Bo Zou
Test Date:2021-05-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:33.6%
Test Distance:10.149m [K=1.0000]
Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

ISOLUX DIAGRAM



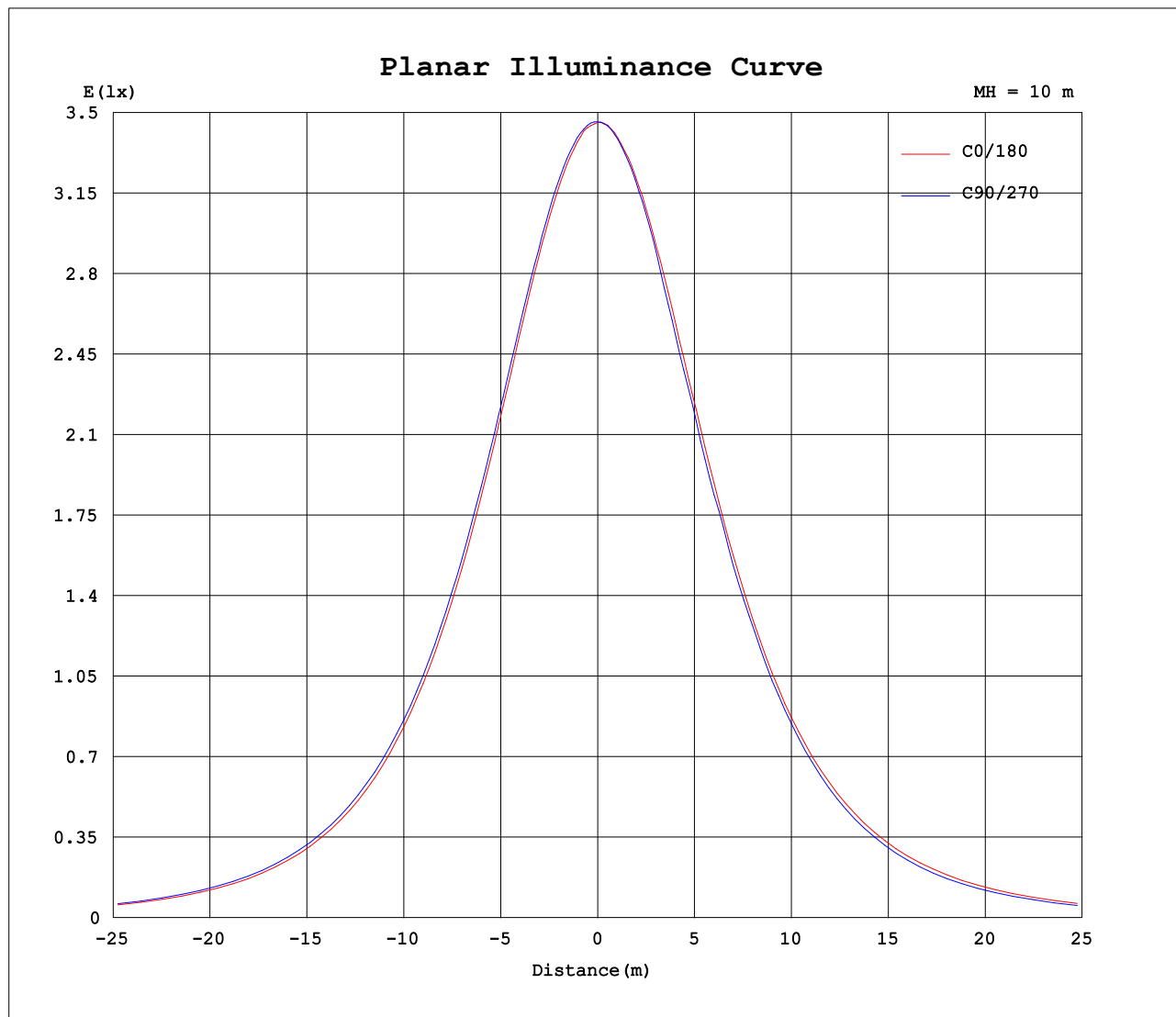
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.1DEG
Operators: Bo Zou
Test Date: 2021-05-17

Checker: Bo Zou

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity: 33.6%
Test Distance: 10.149m [K=1.0000]
Remarks: standard: GB/T 9468-2008

Assessor: Chunbo Zou

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.1DEG
Operators: Bo Zou
Test Date: 2021-05-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity: 33.6%
Test Distance: 10.149m [K=1.0000]
Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 |
| 5 | 343 | 344 | 344 | 344 | 344 | 345 | 345 | 345 | 345 | 345 | 345 | 345 | 345 | 345 | 344 | 345 | 345 | 345 | 345 |
| 10 | 338 | 339 | 340 | 341 | 341 | 341 | 341 | 342 | 342 | 342 | 342 | 342 | 342 | 342 | 342 | 341 | 341 | 340 | 341 |
| 15 | 331 | 332 | 333 | 333 | 334 | 335 | 335 | 336 | 336 | 336 | 336 | 337 | 336 | 336 | 336 | 335 | 334 | 334 | 334 |
| 20 | 321 | 322 | 323 | 324 | 324 | 325 | 326 | 327 | 327 | 328 | 327 | 328 | 328 | 327 | 327 | 326 | 326 | 325 | 321 |
| 25 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 315 | 316 | 317 | 317 | 317 | 316 | 316 | 316 | 315 | 314 | 313 | 310 |
| 30 | 294 | 295 | 296 | 297 | 298 | 300 | 301 | 302 | 302 | 303 | 303 | 303 | 303 | 302 | 302 | 301 | 300 | 298 | 295 |
| 35 | 277 | 278 | 279 | 280 | 282 | 283 | 284 | 285 | 285 | 287 | 287 | 287 | 287 | 286 | 286 | 284 | 283 | 280 | 279 |
| 40 | 257 | 258 | 259 | 261 | 262 | 264 | 265 | 266 | 267 | 268 | 268 | 268 | 268 | 267 | 266 | 265 | 264 | 260 | 261 |
| 45 | 235 | 236 | 237 | 239 | 241 | 243 | 243 | 245 | 246 | 247 | 246 | 247 | 247 | 246 | 245 | 243 | 242 | 238 | 239 |
| 50 | 210 | 212 | 213 | 215 | 217 | 219 | 220 | 221 | 222 | 223 | 223 | 223 | 223 | 222 | 221 | 220 | 218 | 216 | 213 |
| 55 | 184 | 186 | 187 | 189 | 191 | 193 | 194 | 195 | 196 | 197 | 197 | 198 | 197 | 196 | 195 | 194 | 192 | 190 | 186 |
| 60 | 156 | 157 | 159 | 161 | 163 | 165 | 165 | 167 | 167 | 169 | 169 | 170 | 170 | 168 | 167 | 166 | 164 | 162 | 156 |
| 65 | 126 | 127 | 129 | 131 | 133 | 134 | 136 | 137 | 138 | 139 | 139 | 140 | 140 | 138 | 137 | 135 | 134 | 131 | 125 |
| 70 | 94.9 | 96.5 | 97.7 | 99.7 | 101 | 103 | 104 | 106 | 106 | 108 | 108 | 109 | 109 | 107 | 106 | 104 | 102 | 99.8 | 89.4 |
| 75 | 64.0 | 65.5 | 66.4 | 68.2 | 69.5 | 71.4 | 72.3 | 73.8 | 74.5 | 76.0 | 76.6 | 77.2 | 76.8 | 75.9 | 74.7 | 72.4 | 70.6 | 68.0 | 55.7 |
| 80 | 35.5 | 36.5 | 37.1 | 38.4 | 39.1 | 40.5 | 39.4 | 43.2 | 44.1 | 45.3 | 46.2 | 46.8 | 46.5 | 45.5 | 44.3 | 42.1 | 40.4 | 38.1 | 29.3 |
| 85 | 13.0 | 13.5 | 13.7 | 14.2 | 14.6 | 15.5 | 11.9 | 17.6 | 18.5 | 19.6 | 20.4 | 21.1 | 20.6 | 19.8 | 18.8 | 17.0 | 15.6 | 13.9 | 5.47 |
| 90 | 1.74 | 1.91 | 1.90 | 1.97 | 1.96 | 1.98 | 0.05 | 2.90 | 3.68 | 4.39 | 5.17 | 5.60 | 5.12 | 4.72 | 4.15 | 3.20 | 2.45 | 1.48 | 0.01 |
| 95 | 0.41 | 0.34 | 0.34 | 0.37 | 0.19 | 0.16 | 0.05 | 0.16 | 0.43 | 0.65 | 1.35 | 1.78 | 1.52 | 1.35 | 0.96 | 0.52 | 0.12 | 0.06 | 0.06 |
| 100 | 0.26 | 0.26 | 0.25 | 0.24 | 0.19 | 0.22 | 0.13 | 0.25 | 0.24 | 0.34 | 0.44 | 0.51 | 0.26 | 0.27 | 0.28 | 0.21 | 0.18 | 0.10 | 0.16 |
| 105 | 0.27 | 0.32 | 0.27 | 0.34 | 0.26 | 0.32 | 0.24 | 0.36 | 0.35 | 0.44 | 0.52 | 0.55 | 0.30 | 0.28 | 0.33 | 0.26 | 0.27 | 0.19 | 0.24 |
| 110 | 0.37 | 0.43 | 0.36 | 0.44 | 0.37 | 0.43 | 0.36 | 0.48 | 0.50 | 0.55 | 0.58 | 0.67 | 0.41 | 0.36 | 0.42 | 0.34 | 0.37 | 0.31 | 0.37 |
| 115 | 0.50 | 0.55 | 0.49 | 0.54 | 0.51 | 0.53 | 0.49 | 0.59 | 0.57 | 0.66 | 0.69 | 0.78 | 0.51 | 0.51 | 0.53 | 0.49 | 0.49 | 0.48 | 0.49 |
| 120 | 0.59 | 0.65 | 0.59 | 0.64 | 0.58 | 0.65 | 0.58 | 0.70 | 0.68 | 0.78 | 0.81 | 0.89 | 0.61 | 0.56 | 0.62 | 0.57 | 0.59 | 0.55 | 0.59 |
| 125 | 0.70 | 0.76 | 0.69 | 0.76 | 0.69 | 0.76 | 0.70 | 0.80 | 0.80 | 0.89 | 0.91 | 0.99 | 0.72 | 0.66 | 0.72 | 0.66 | 0.72 | 0.66 | 0.70 |
| 130 | 0.80 | 0.85 | 0.81 | 0.87 | 0.85 | 0.87 | 0.80 | 0.90 | 0.91 | 0.99 | 1.01 | 1.09 | 0.82 | 0.81 | 0.83 | 0.80 | 0.83 | 0.80 | 0.80 |
| 135 | 0.91 | 0.95 | 0.91 | 0.95 | 0.91 | 0.95 | 0.91 | 0.97 | 1.00 | 1.09 | 1.11 | 1.18 | 0.92 | 0.88 | 0.91 | 0.85 | 0.91 | 0.86 | 0.91 |
| 140 | 1.00 | 1.03 | 0.99 | 1.05 | 1.00 | 1.03 | 1.00 | 1.03 | 1.05 | 1.16 | 1.19 | 1.26 | 1.01 | 0.94 | 1.01 | 0.95 | 1.00 | 0.93 | 0.99 |
| 145 | 1.05 | 1.12 | 1.05 | 1.12 | 1.05 | 1.12 | 1.05 | 1.12 | 1.12 | 1.24 | 1.25 | 1.34 | 1.08 | 1.02 | 1.09 | 1.02 | 1.09 | 1.00 | 1.07 |
| 150 | 1.13 | 1.20 | 1.13 | 1.19 | 1.13 | 1.20 | 1.13 | 1.19 | 1.20 | 1.30 | 1.32 | 1.39 | 1.16 | 1.09 | 1.16 | 1.10 | 1.16 | 1.08 | 1.15 |
| 155 | 1.20 | 1.26 | 1.21 | 1.26 | 1.20 | 1.25 | 1.21 | 1.24 | 1.22 | 1.33 | 1.37 | 1.45 | 1.22 | 1.18 | 1.23 | 1.17 | 1.22 | 1.14 | 1.21 |
| 160 | 1.24 | 1.32 | 1.26 | 1.30 | 1.24 | 1.30 | 1.24 | 1.30 | 1.24 | 1.36 | 1.44 | 1.45 | 1.29 | 1.22 | 1.29 | 1.23 | 1.28 | 1.22 | 1.27 |
| 165 | 1.34 | 1.35 | 1.32 | 1.34 | 1.32 | 1.35 | 1.31 | 1.34 | 1.30 | 1.36 | 1.44 | 1.46 | 1.34 | 1.30 | 1.35 | 1.30 | 1.32 | 1.26 | 1.32 |
| 170 | 1.34 | 1.39 | 1.34 | 1.37 | 1.33 | 1.37 | 1.34 | 1.36 | 1.32 | 1.36 | 1.45 | 1.46 | 1.36 | 1.34 | 1.39 | 1.34 | 1.35 | 1.32 | 1.35 |
| 175 | 1.37 | 1.40 | 1.34 | 1.38 | 1.34 | 1.37 | 1.34 | 1.36 | 1.34 | 1.36 | 1.45 | 1.45 | 1.38 | 1.36 | 1.40 | 1.35 | 1.37 | 1.34 | 1.37 |
| 180 | 1.39 | 1.41 | 1.37 | 1.39 | 1.37 | 1.37 | 1.37 | 1.37 | 1.36 | 1.36 | 1.44 | 1.44 | 1.39 | 1.40 | 1.40 | 1.37 | 1.37 | 1.36 | 1.37 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.1DEG
Operators:Bo Zou
Test Date:2021-05-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
Humidity:33.6%
Test Distance:10.149m [K=1.0000]
Remarks: standard: GB/T 9468-2008

Checker: Bo Zou

Assessor: Chunbo Zou

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 346 | 346 | 346 | 346 | 346 | | | | | | | | | | | | | |
| 5 | 344 | 344 | 344 | 344 | 343 | | | | | | | | | | | | | |
| 10 | 340 | 339 | 339 | 339 | 339 | | | | | | | | | | | | | |
| 15 | 331 | 333 | 332 | 332 | 331 | | | | | | | | | | | | | |
| 20 | 322 | 323 | 322 | 322 | 322 | | | | | | | | | | | | | |
| 25 | 311 | 310 | 310 | 309 | 309 | | | | | | | | | | | | | |
| 30 | 296 | 296 | 295 | 294 | 294 | | | | | | | | | | | | | |
| 35 | 279 | 279 | 278 | 277 | 277 | | | | | | | | | | | | | |
| 40 | 260 | 259 | 258 | 257 | 257 | | | | | | | | | | | | | |
| 45 | 238 | 237 | 236 | 235 | 235 | | | | | | | | | | | | | |
| 50 | 214 | 213 | 211 | 211 | 210 | | | | | | | | | | | | | |
| 55 | 187 | 186 | 185 | 185 | 184 | | | | | | | | | | | | | |
| 60 | 158 | 158 | 157 | 156 | 156 | | | | | | | | | | | | | |
| 65 | 128 | 128 | 127 | 126 | 126 | | | | | | | | | | | | | |
| 70 | 96.8 | 96.3 | 95.4 | 95.2 | 94.8 | | | | | | | | | | | | | |
| 75 | 65.4 | 65.1 | 64.4 | 64.4 | 64.0 | | | | | | | | | | | | | |
| 80 | 35.9 | 35.9 | 35.3 | 35.6 | 35.6 | | | | | | | | | | | | | |
| 85 | 12.6 | 12.8 | 12.8 | 13.2 | 13.3 | | | | | | | | | | | | | |
| 90 | 1.34 | 1.62 | 1.72 | 1.88 | 1.90 | | | | | | | | | | | | | |
| 95 | 0.07 | 0.11 | 0.22 | 0.26 | 0.38 | | | | | | | | | | | | | |
| 100 | 0.13 | 0.18 | 0.18 | 0.20 | 0.22 | | | | | | | | | | | | | |
| 105 | 0.22 | 0.27 | 0.22 | 0.27 | 0.23 | | | | | | | | | | | | | |
| 110 | 0.32 | 0.37 | 0.33 | 0.38 | 0.32 | | | | | | | | | | | | | |
| 115 | 0.49 | 0.50 | 0.48 | 0.49 | 0.49 | | | | | | | | | | | | | |
| 120 | 0.57 | 0.60 | 0.55 | 0.59 | 0.55 | | | | | | | | | | | | | |
| 125 | 0.65 | 0.72 | 0.63 | 0.69 | 0.62 | | | | | | | | | | | | | |
| 130 | 0.79 | 0.82 | 0.80 | 0.80 | 0.74 | | | | | | | | | | | | | |
| 135 | 0.84 | 0.92 | 0.84 | 0.90 | 0.83 | | | | | | | | | | | | | |
| 140 | 0.93 | 0.99 | 0.93 | 0.99 | 0.91 | | | | | | | | | | | | | |
| 145 | 1.01 | 1.07 | 1.01 | 1.05 | 1.00 | | | | | | | | | | | | | |
| 150 | 1.09 | 1.14 | 1.08 | 1.14 | 1.07 | | | | | | | | | | | | | |
| 155 | 1.14 | 1.20 | 1.14 | 1.20 | 1.13 | | | | | | | | | | | | | |
| 160 | 1.23 | 1.26 | 1.21 | 1.26 | 1.21 | | | | | | | | | | | | | |
| 165 | 1.26 | 1.32 | 1.25 | 1.31 | 1.26 | | | | | | | | | | | | | |
| 170 | 1.32 | 1.35 | 1.33 | 1.36 | 1.33 | | | | | | | | | | | | | |
| 175 | 1.34 | 1.36 | 1.34 | 1.38 | 1.36 | | | | | | | | | | | | | |
| 180 | 1.36 | 1.37 | 1.36 | 1.38 | 1.45 | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.1DEG
 Operators:Bo Zou
 Test Date:2021-05-17

Checker: Bo Zou

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.291
 Humidity:33.6%
 Test Distance:10.149m [K=1.0000]
 Remarks: standard: GB/T 9468-2008

Assessor: Chunbo Zou