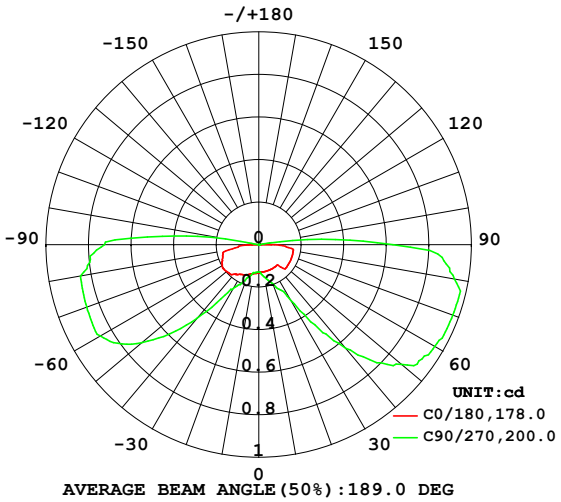
# LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

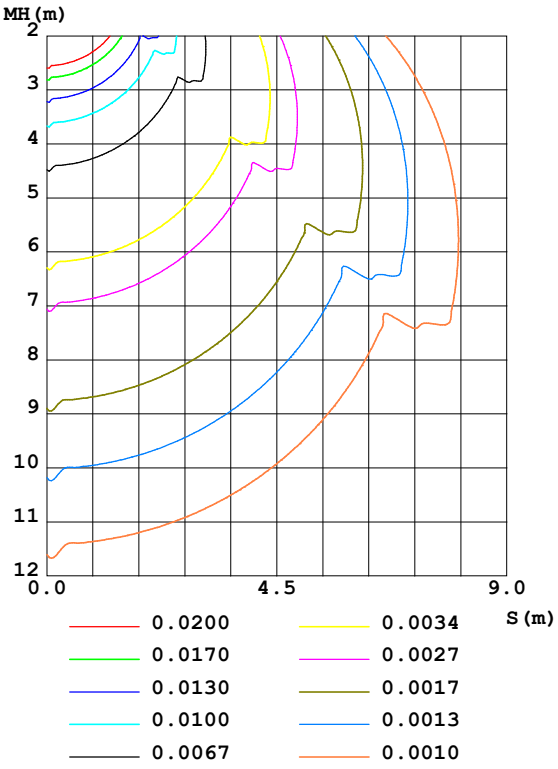
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 1.19 lm/W | |
|---|---|---|---|---|---|
| MODEL | HCP-271104 5500K | Imax(cd) | 0.9729 | S/MH(C0/180) | 2.03 |
| NOMINAL POWER(W) | 2.5W | LOR(%) | 100.0 | S/MH(C90/270) | 3.97 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 3.2159 | η UP,DN(C0-180) | 3.1,49.8 |
| NOMINAL FLUX(lm) | 3.21587 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 4.9,42.2 |
| LAMPS INSIDE | 1 | η up(%) | 8.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 23.997 | η down(%) | 92.0 | CIBSE SHR MAX | 1.55 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):189.0 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

# ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 0.1303 | 0.1403 | 0.1556 | 0.1373 | 0.1391 | 0.1380 | 0.1346 | 0.1337 | 0- 10 | 0.0131 | 0.0131 | 0.41,0.41 |
| 20 | 0.1303 | 0.1692 | 0.1952 | 0.1780 | 0.1508 | 0.1521 | 0.1695 | 0.1521 | 10- 20 | 0.0436 | 0.0567 | 1.76,1.76 |
| 30 | 0.1303 | 0.2127 | 0.3037 | 0.2302 | 0.1627 | 0.1868 | 0.2347 | 0.1980 | 20- 30 | 0.0861 | 0.1427 | 4.44,4.44 |
| 40 | 0.1303 | 0.4425 | 0.6379 | 0.4687 | 0.1825 | 0.3174 | 0.4521 | 0.3347 | 30- 40 | 0.1788 | 0.3215 | 10,10 |
| 50 | 0.1691 | 0.5949 | 0.8770 | 0.6514 | 0.1976 | 0.4909 | 0.7169 | 0.5040 | 40- 50 | 0.3536 | 0.6751 | 21,21 |
| 60 | 0.1678 | 0.6529 | 0.9563 | 0.7078 | 0.1987 | 0.5896 | 0.8600 | 0.5856 | 50- 60 | 0.5052 | 1.180 | 36.7,36.7 |
| 70 | 0.1666 | 0.6581 | 0.9705 | 0.7055 | 0.1815 | 0.5925 | 0.8608 | 0.5860 | 60- 70 | 0.5883 | 1.769 | 55,55 |
| 80 | 0.1653 | 0.6515 | 0.9339 | 0.6733 | 0.1431 | 0.5515 | 0.8511 | 0.5893 | 70- 80 | 0.6196 | 2.388 | 74.3,74.3 |
| 90 | 0.0739 | 0.4741 | 0.6307 | 0.4437 | 0.0347 | 0.4558 | 0.7253 | 0.5122 | 80- 90 | 0.5701 | 2.958 | 92,92 |
| 100 | 0 | 0.0134 | 0.0264 | 0.0089 | 0 | 0.0258 | 0.1599 | 0.0819 | 90-100 | 0.2511 | 3.209 | 99.8,99.8 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0.0065 | 3.216 | 100,100 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 3.216 | 100,100 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 3.216 | 100,100 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0.0000 | 3.216 | 100,100 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 3.216 | 100,100 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 3.216 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 3.216 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 3.216 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

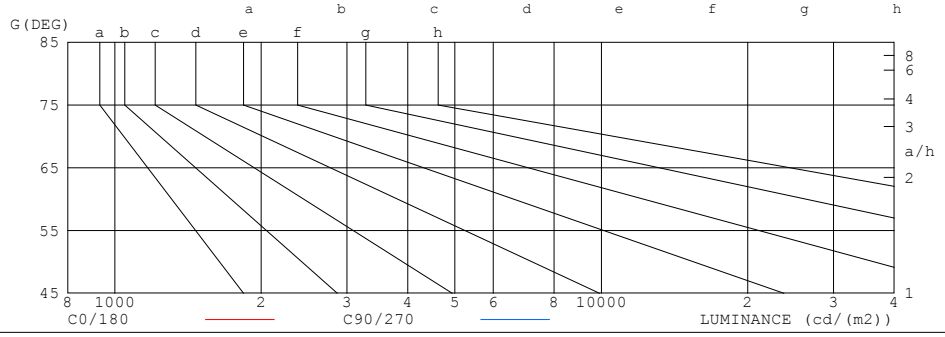
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

# LUMINANCE LIMITATION CURVES

| | | |
|---|---|---|
| **Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm** | | |
| **NAME: HCP-271104 5500K** | **TYPE:** | **WEIGHT:** |
| **SPEC.:** | **DIM.:** | **SERIAL No.:** |
| **MFR.: ONIKE** | **SUR.:** | **Shielding Angle:** |

**LUMINANCE LIMITATION CURVES**

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |




| LUMINANCE cd/(m2) | | |
|---|---|---|
| G(DEG) | C0/180 | C90/270 |
| 85 | 15 | 100 |
| 80 | 10 | 54 |
| 75 | 6 | 38 |
| 70 | 5 | 28 |
| 65 | 4 | 23 |
| 60 | 3 | 19 |
| 55 | 3 | 16 |
| 50 | 3 | 14 |
| 45 | 2 | 11 |

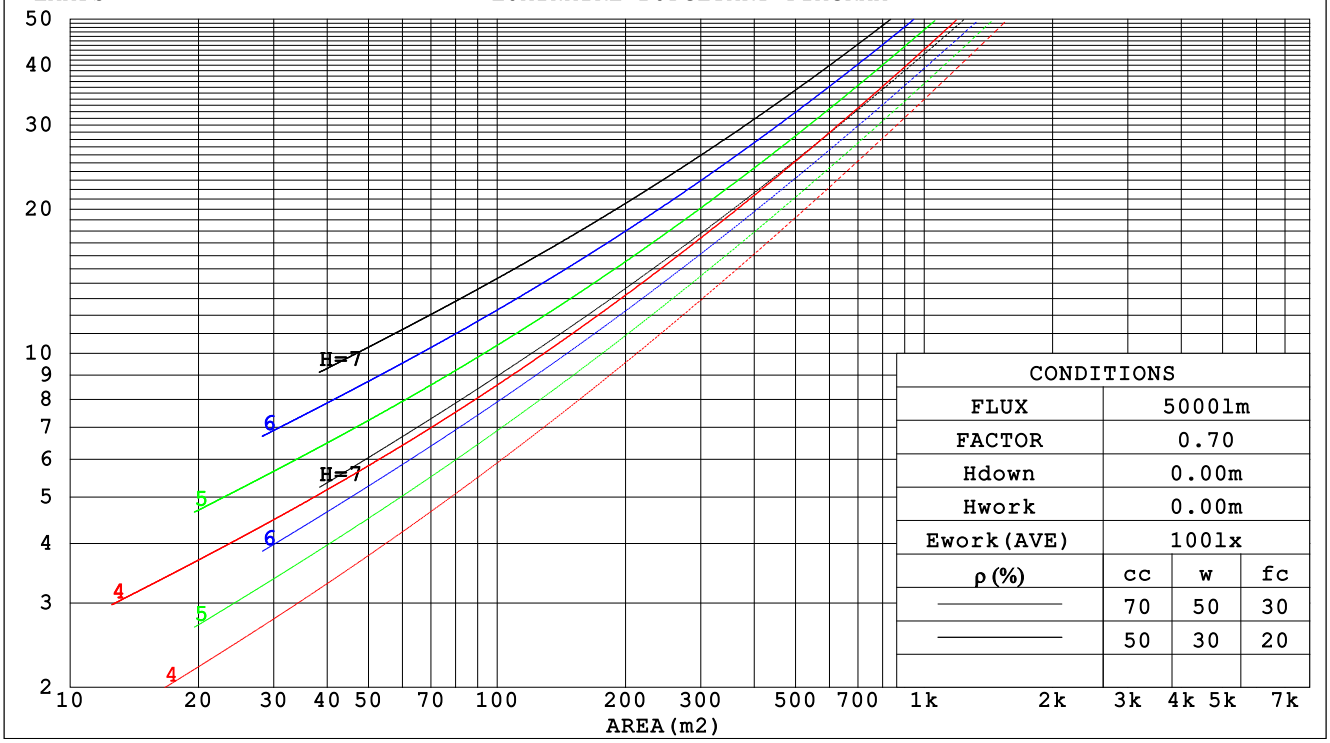
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---|---|
| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | Coefficients of Utilization(CU) | | | | | | | | | | | | |
| 0.0 | 1.17 | 1.17 | 1.17 | 1.13 | 1.13 | 1.13 | 1.07 | 1.07 | 1.07 | 1.00 | 1.00 | 1.00 | .95 | .95 | .95 | .92 |
| 1.0 | .89 | .81 | .74 | .85 | .78 | .72 | .79 | .73 | .68 | .74 | .69 | .64 | .68 | .64 | .61 | .58 |
| 2.0 | .72 | .61 | .52 | .69 | .59 | .51 | .63 | .55 | .48 | .59 | .52 | .46 | .54 | .48 | .43 | .40 |
| 3.0 | .59 | .48 | .38 | .57 | .46 | .37 | .53 | .43 | .36 | .48 | .40 | .34 | .44 | .38 | .32 | .29 |
| 4.0 | .50 | .39 | .29 | .48 | .37 | .29 | .45 | .35 | .27 | .41 | .33 | .26 | .38 | .31 | .25 | .22 |
| 5.0 | .44 | .32 | .23 | .42 | .31 | .23 | .39 | .29 | .22 | .35 | .27 | .21 | .33 | .25 | .20 | .17 |
| 6.0 | .38 | .27 | .19 | .37 | .26 | .19 | .34 | .25 | .18 | .31 | .23 | .17 | .29 | .22 | .16 | .13 |
| 7.0 | .34 | .23 | .16 | .33 | .23 | .15 | .30 | .21 | .15 | .28 | .20 | .14 | .26 | .19 | .13 | .11 |
| 8.0 | .30 | .20 | .13 | .29 | .20 | .13 | .27 | .18 | .12 | .25 | .17 | .12 | .23 | .16 | .11 | .09 |
| 9.0 | .27 | .18 | .11 | .27 | .17 | .11 | .25 | .16 | .11 | .23 | .15 | .10 | .21 | .14 | .09 | .07 |
| 10.0 | .25 | .16 | .10 | .24 | .15 | .10 | .23 | .15 | .09 | .21 | .14 | .09 | .20 | .13 | .08 | .06 |




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## WEC AND CCEC

| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
|---|---|---|
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coeffcients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .564 | .321 | .102 | .554 | .316 | .100 | .535 | .307 | .098 | .517 | .298 | .096 | .501 | .290 | .094 | |
| 2.0 | .454 | .249 | .076 | .445 | .245 | .075 | .427 | .238 | .074 | .411 | .231 | .072 | .397 | .224 | .071 | |
| 3.0 | .385 | .205 | .061 | .377 | .202 | .061 | .361 | .196 | .059 | .347 | .190 | .058 | .333 | .185 | .057 | |
| 4.0 | .335 | .174 | .051 | .328 | .171 | .051 | .314 | .166 | .050 | .300 | .161 | .049 | .288 | .157 | .048 | |
| 5.0 | .297 | .151 | .044 | .290 | .149 | .043 | .277 | .144 | .043 | .266 | .140 | .042 | .255 | .136 | .041 | |
| 6.0 | .266 | .133 | .038 | .260 | .131 | .038 | .249 | .127 | .037 | .238 | .124 | .036 | .228 | .120 | .036 | |
| 7.0 | .241 | .119 | .034 | .236 | .117 | .033 | .225 | .114 | .033 | .216 | .111 | .032 | .207 | .107 | .032 | |
| 8.0 | .220 | .108 | .030 | .216 | .106 | .030 | .206 | .103 | .029 | .197 | .100 | .029 | .189 | .097 | .028 | |
| 9.0 | .203 | .098 | .027 | .198 | .097 | .027 | .190 | .094 | .027 | .182 | .091 | .026 | .175 | .089 | .026 | |
| 10.0 | .188 | .090 | .025 | .184 | .089 | .025 | .176 | .086 | .024 | .169 | .084 | .024 | .162 | .082 | .023 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .252 | .252 | .252 | .215 | .215 | .215 | .147 | .147 | .147 | .084 | .084 | .084 | .027 | .027 | .027 | |
| 1.0 | .259 | .215 | .176 | .222 | .185 | .151 | .152 | .127 | .105 | .087 | .074 | .061 | .028 | .024 | .020 | |
| 2.0 | .256 | .193 | .140 | .219 | .166 | .121 | .150 | .115 | .085 | .087 | .067 | .050 | .028 | .022 | .016 | |
| 3.0 | .249 | .177 | .120 | .213 | .153 | .104 | .147 | .106 | .073 | .085 | .062 | .043 | .027 | .020 | .014 | |
| 4.0 | .241 | .165 | .108 | .206 | .143 | .094 | .142 | .100 | .066 | .082 | .058 | .039 | .026 | .019 | .013 | |
| 5.0 | .232 | .156 | .100 | .199 | .135 | .087 | .137 | .094 | .061 | .079 | .055 | .036 | .026 | .018 | .012 | |
| 6.0 | .223 | .148 | .095 | .192 | .128 | .082 | .132 | .090 | .058 | .077 | .053 | .035 | .025 | .017 | .011 | |
| 7.0 | .215 | .142 | .091 | .185 | .123 | .079 | .127 | .086 | .056 | .074 | .051 | .033 | .024 | .017 | .011 | |
| 8.0 | .207 | .136 | .088 | .178 | .118 | .076 | .123 | .083 | .054 | .072 | .049 | .032 | .023 | .016 | .011 | |
| 9.0 | .199 | .131 | .085 | .171 | .114 | .074 | .119 | .080 | .053 | .069 | .047 | .031 | .022 | .015 | .010 | |
| 10.0 | .192 | .127 | .083 | .166 | .110 | .073 | .115 | .077 | .052 | .067 | .046 | .031 | .022 | .015 | .010 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## UGR(Unified Glare Rating) Table

| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
|---|---|---|
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | 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 | 13.5 | 15.4 | 14.0 | 15.8 | 16.2 | 19.7 | 21.6 | 20.1 | 21.9 | 22.4 |
| | 3H | 15.7 | 17.5 | 16.2 | 17.9 | 18.3 | 23.3 | 25.0 | 23.7 | 25.4 | 25.9 |
| | 4H | 16.9 | 18.6 | 17.3 | 19.0 | 19.5 | 25.2 | 26.9 | 25.7 | 27.3 | 27.8 |
| | 6H | 18.2 | 19.8 | 18.6 | 20.2 | 20.7 | 27.3 | 28.9 | 27.8 | 29.4 | 29.9 |
| | 8H | 18.9 | 20.5 | 19.4 | 20.9 | 21.4 | 28.4 | 30.0 | 28.9 | 30.4 | 30.9 |
| | 12H | 19.6 | 21.1 | 20.1 | 21.6 | 22.1 | 29.6 | 31.1 | 30.1 | 31.6 | 32.1 |
| 4H | 2H | 16.6 | 18.3 | 17.1 | 18.7 | 19.2 | 20.3 | 21.9 | 20.7 | 22.4 | 22.8 |
| | 3H | 18.9 | 20.4 | 19.4 | 20.9 | 21.4 | 24.1 | 25.6 | 24.6 | 26.1 | 26.6 |
| | 4H | 20.0 | 21.4 | 20.5 | 21.9 | 22.5 | 26.3 | 27.7 | 26.8 | 28.2 | 28.7 |
| | 6H | 21.2 | 22.5 | 21.7 | 23.0 | 23.6 | 28.6 | 29.8 | 29.1 | 30.4 | 30.9 |
| | 8H | 21.9 | 23.1 | 22.4 | 23.6 | 24.2 | 29.8 | 31.0 | 30.3 | 31.5 | 32.1 |
| | 12H | 22.5 | 23.7 | 23.1 | 24.2 | 24.8 | 31.2 | 32.3 | 31.7 | 32.8 | 33.5 |
| 8H | 4H | 22.3 | 23.5 | 22.9 | 24.1 | 24.7 | 26.7 | 27.9 | 27.2 | 28.4 | 29.0 |
| | 6H | 23.8 | 24.9 | 24.4 | 25.5 | 26.1 | 29.3 | 30.3 | 29.8 | 30.9 | 31.5 |
| | 8H | 24.6 | 25.6 | 25.2 | 26.2 | 26.8 | 30.7 | 31.7 | 31.3 | 32.3 | 32.9 |
| | 12H | 25.4 | 26.3 | 26.0 | 26.9 | 27.5 | 32.3 | 33.2 | 33.0 | 33.8 | 34.5 |
| 12H | 4H | 23.0 | 24.2 | 23.6 | 24.7 | 25.3 | 26.7 | 27.8 | 27.3 | 28.4 | 29.0 |
| | 6H | 24.9 | 25.8 | 25.4 | 26.4 | 27.1 | 29.4 | 30.4 | 30.0 | 31.0 | 31.6 |
| | 8H | 25.8 | 26.7 | 26.4 | 27.3 | 28.0 | 31.0 | 31.9 | 31.6 | 32.5 | 33.1 |

| Variations with the observer position at spacings: | | |
|---|---|---|
| S = 1.0H | + 0.1 / - 0.1 | + 0.1 / - 0.1 |
| 1.5H | + 0.2 / - 0.3 | + 0.2 / - 0.2 |
| 2.0H | + 0.3 / - 0.4 | + 0.3 / - 0.3 |

CIE Pub.117, 3.216 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -19.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

# UTILIZATION FACTORS TABLE

| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
|---|---|---|
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

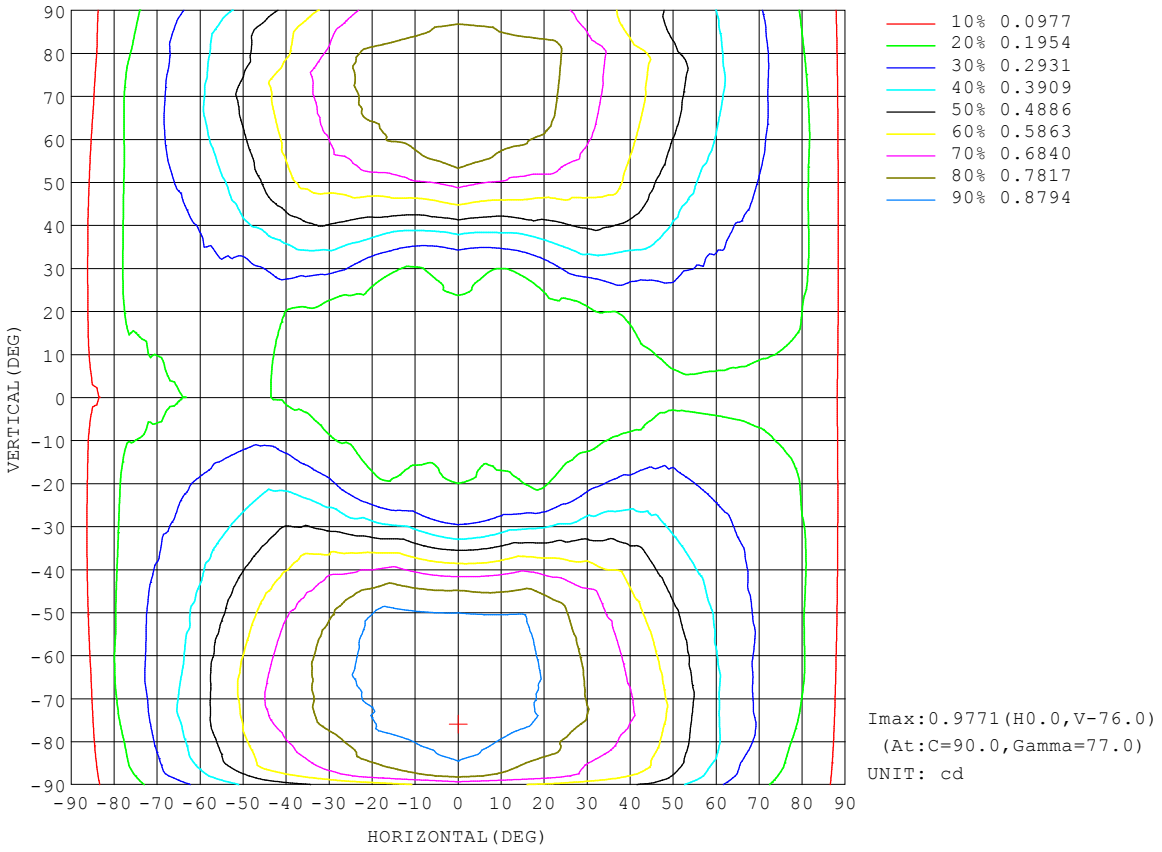
| REFLECTANCE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 38 | 23 | 15 | 37 | 23 | 14 | 35 | 22 | 14 | 6 |
| 0.80 | 46 | 31 | 21 | 45 | 30 | 21 | 43 | 29 | 20 | 11 |
| 1.00 | 54 | 38 | 27 | 52 | 37 | 27 | 49 | 40 | 27 | 17 |
| 1.25 | 61 | 45 | 34 | 59 | 44 | 34 | 56 | 42 | 33 | 22 |
| 1.50 | 67 | 51 | 40 | 65 | 50 | 39 | 60 | 48 | 38 | 27 |
| 2.00 | 75 | 61 | 50 | 73 | 59 | 49 | 68 | 56 | 47 | 35 |
| 2.50 | 81 | 67 | 57 | 78 | 65 | 55 | 73 | 62 | 53 | 41 |
| 3.00 | 85 | 73 | 63 | 82 | 71 | 61 | 77 | 67 | 59 | 46 |
| 4.00 | 91 | 80 | 71 | 88 | 78 | 70 | 82 | 74 | 67 | 54 |
| 5.00 | 95 | 86 | 77 | 92 | 83 | 75 | 86 | 78 | 72 | 59 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | Suspended | | | | | SHRNOM = 1.25 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

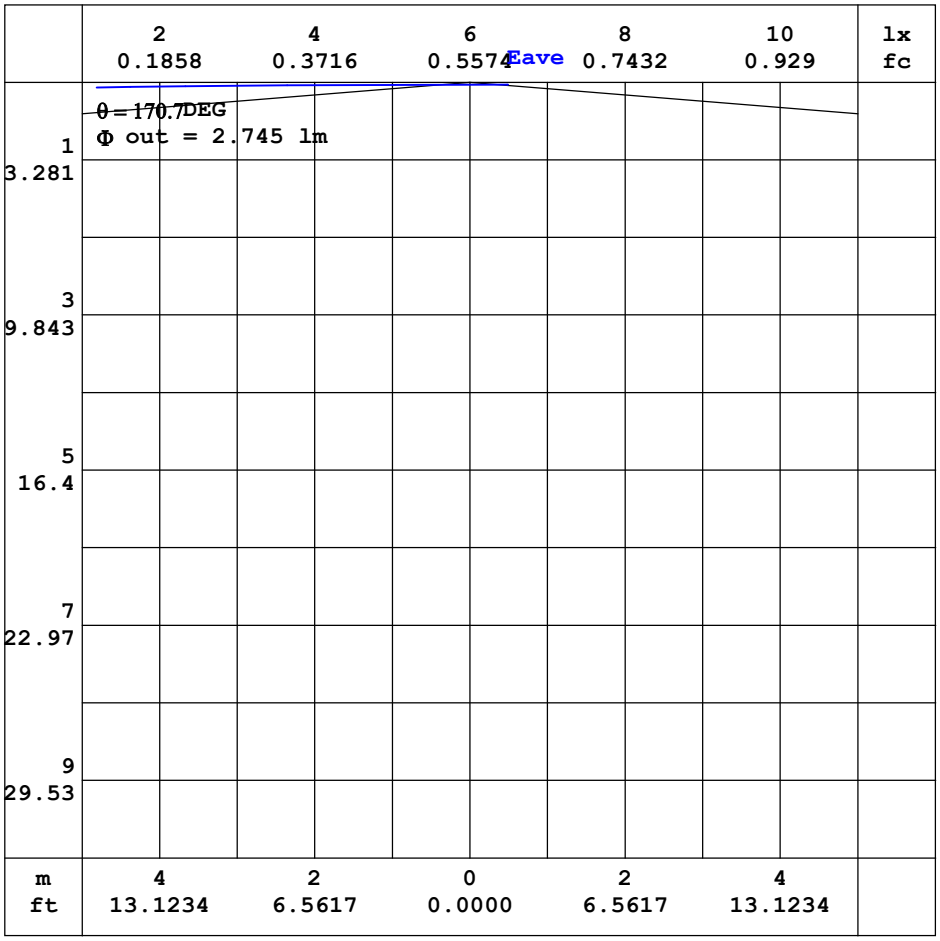



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## AAI CURVES

| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
|---|---|---|
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| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |



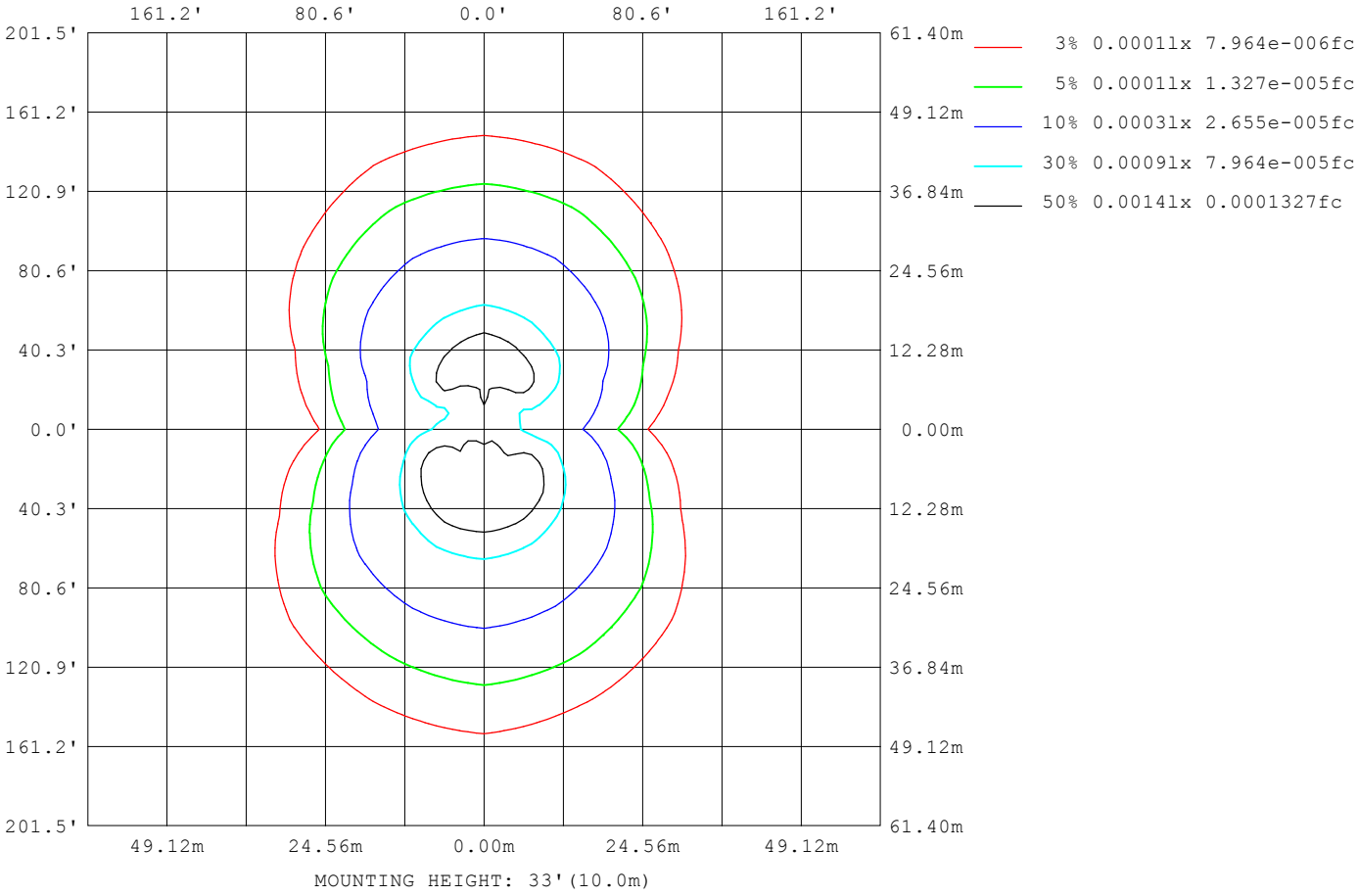

**Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.**

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## ISOLUX DIAGRAM

| | | |
|---|---|---|
| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## LED Avg.L Report

| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
|---|---|---|
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

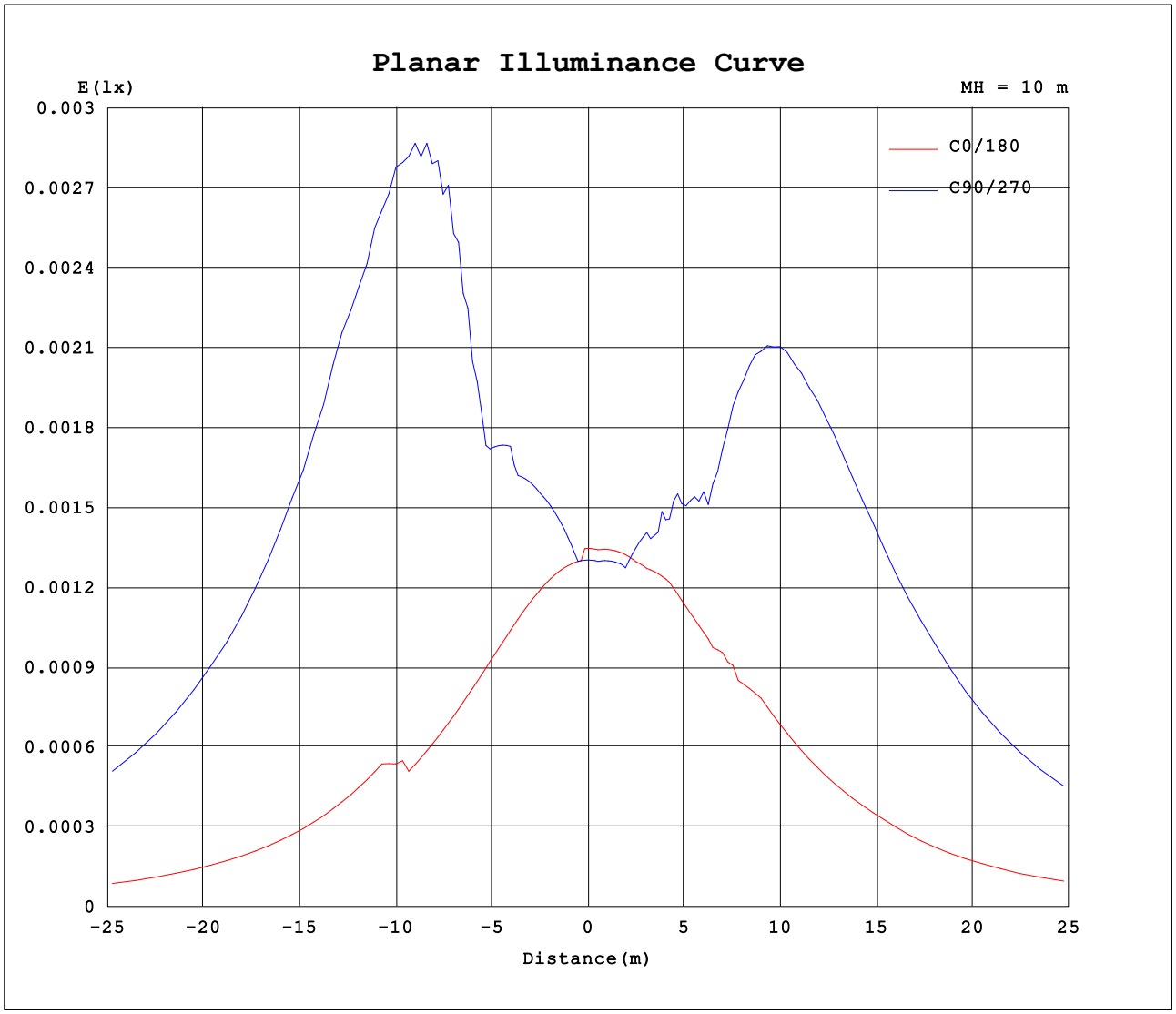
| AvgL | cd/m2 |
|---|---|
| L_0~180(65)av | 4 |
| L_0~180(75)av | 7 |
| L_0~180(85)av | 13 |
| L_90~270(65)av | 22 |
| L_90~270(75)av | 35 |
| L_90~270(85)av | 96 |
| L_45(65)av | 15 |
| L_45(75)av | 24 |
| L_45(85)av | 65 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271104 5500K

## LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
| Test:U:23.997V I:0.1123A P:2.6949W PF:1.0000 Freq:50.00Hz Lamp Flux:3.21587x1 lm | | |
| NAME: HCP-271104 5500K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

Table--1 UNIT: cd

| γ (DEG) \ C(DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 5 | 0.13 | 0.14 | 0.13 | 0.14 | 0.14 | 0.14 | 0.13 | 0.14 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 10 | 0.13 | 0.14 | 0.14 | 0.16 | 0.16 | 0.16 | 0.14 | 0.14 | 0.14 | 0.13 | 0.14 | 0.13 | 0.13 | 0.14 | 0.13 | 0.14 |
| 15 | 0.13 | 0.15 | 0.15 | 0.19 | 0.17 | 0.19 | 0.14 | 0.16 | 0.14 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.14 | 0.14 |
| 20 | 0.13 | 0.16 | 0.17 | 0.22 | 0.20 | 0.23 | 0.18 | 0.17 | 0.15 | 0.13 | 0.15 | 0.14 | 0.17 | 0.16 | 0.15 | 0.15 |
| 25 | 0.13 | 0.18 | 0.18 | 0.26 | 0.23 | 0.27 | 0.18 | 0.19 | 0.16 | 0.13 | 0.17 | 0.17 | 0.21 | 0.17 | 0.17 | 0.15 |
| 30 | 0.13 | 0.19 | 0.21 | 0.31 | 0.30 | 0.33 | 0.23 | 0.20 | 0.16 | 0.13 | 0.19 | 0.17 | 0.23 | 0.18 | 0.20 | 0.16 |
| 35 | 0.13 | 0.23 | 0.31 | 0.46 | 0.46 | 0.49 | 0.37 | 0.27 | 0.17 | 0.13 | 0.22 | 0.23 | 0.31 | 0.25 | 0.24 | 0.16 |
| 40 | 0.13 | 0.28 | 0.44 | 0.61 | 0.64 | 0.64 | 0.47 | 0.32 | 0.18 | 0.17 | 0.32 | 0.37 | 0.45 | 0.38 | 0.33 | 0.17 |
| 45 | 0.15 | 0.33 | 0.52 | 0.75 | 0.79 | 0.77 | 0.58 | 0.38 | 0.19 | 0.20 | 0.41 | 0.51 | 0.60 | 0.51 | 0.43 | 0.23 |
| 50 | 0.17 | 0.37 | 0.59 | 0.84 | 0.88 | 0.87 | 0.65 | 0.39 | 0.20 | 0.24 | 0.49 | 0.61 | 0.72 | 0.61 | 0.50 | 0.26 |
| 55 | 0.17 | 0.37 | 0.64 | 0.85 | 0.94 | 0.92 | 0.68 | 0.40 | 0.20 | 0.26 | 0.56 | 0.70 | 0.81 | 0.71 | 0.57 | 0.30 |
| 60 | 0.17 | 0.37 | 0.65 | 0.86 | 0.96 | 0.92 | 0.71 | 0.40 | 0.20 | 0.30 | 0.59 | 0.74 | 0.86 | 0.76 | 0.59 | 0.31 |
| 65 | 0.17 | 0.38 | 0.66 | 0.86 | 0.97 | 0.92 | 0.71 | 0.40 | 0.19 | 0.31 | 0.60 | 0.77 | 0.87 | 0.79 | 0.59 | 0.33 |
| 70 | 0.17 | 0.36 | 0.66 | 0.86 | 0.97 | 0.89 | 0.71 | 0.40 | 0.18 | 0.31 | 0.59 | 0.80 | 0.86 | 0.79 | 0.59 | 0.34 |
| 75 | 0.17 | 0.34 | 0.66 | 0.86 | 0.97 | 0.87 | 0.70 | 0.39 | 0.18 | 0.31 | 0.59 | 0.81 | 0.86 | 0.78 | 0.59 | 0.34 |
| 80 | 0.17 | 0.31 | 0.65 | 0.80 | 0.93 | 0.82 | 0.67 | 0.37 | 0.14 | 0.31 | 0.55 | 0.80 | 0.85 | 0.78 | 0.59 | 0.33 |
| 85 | 0.13 | 0.31 | 0.60 | 0.75 | 0.87 | 0.77 | 0.62 | 0.35 | 0.10 | 0.30 | 0.52 | 0.75 | 0.79 | 0.76 | 0.54 | 0.32 |
| 90 | 0.07 | 0.23 | 0.47 | 0.57 | 0.63 | 0.54 | 0.44 | 0.25 | 0.03 | 0.26 | 0.46 | 0.69 | 0.73 | 0.72 | 0.51 | 0.31 |
| 95 | 0.02 | 0.09 | 0.23 | 0.25 | 0.30 | 0.23 | 0.20 | 0.09 | 0.00 | 0.13 | 0.24 | 0.42 | 0.46 | 0.46 | 0.29 | 0.18 |
| 100 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.03 | 0.14 | 0.16 | 0.17 | 0.08 | 0.03 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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