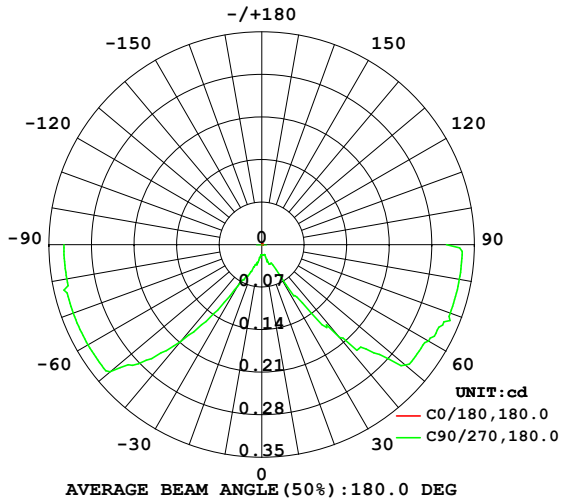
# LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
| NAME: HCP-271204 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

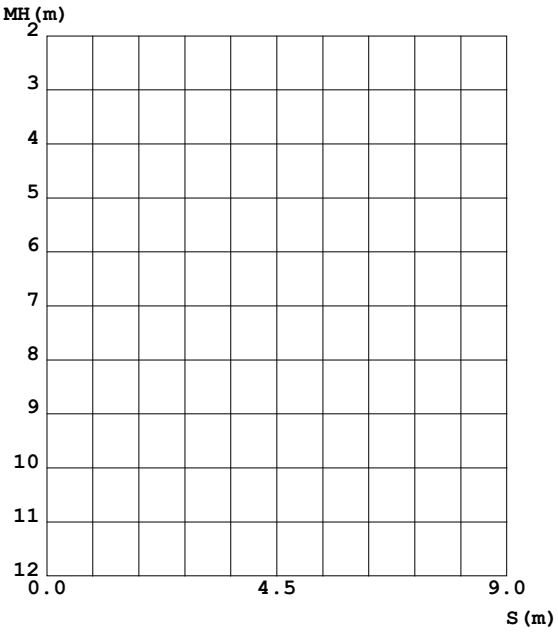
| DATA OF LAMP | | PHOTOMETRIC DATA | | | Eff: 0.64 lm/W |
|---|---|---|---|---|---|
| MODEL | HCP-271204 3000K | Imax(cd) | 0.3343 | S/MH(C0/180) | 0.00 |
| NOMINAL POWER(W) | 1 | LOR(%) | 100.0 | S/MH(C90/270) | 5.85 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 0.7641 | η UP,DN(C0-180) | 0.0,51.0 |
| NOMINAL FLUX(lm) | 0.764117 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,49.0 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 23.997 | η down(%) | 100.0 | CIBSE SHR MAX | 1.35 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):180.0 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:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

# ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 0 | 0.0174 | 0.0174 | 0.0174 | 0 | 0.0217 | 0.0218 | 0.0217 | 0- 10 | 0.0013 | 0.0013 | 0.17,0.17 |
| 20 | 0 | 0.0174 | 0.0304 | 0.0174 | 0 | 0.0261 | 0.0392 | 0.0304 | 10- 20 | 0.0049 | 0.0062 | 0.82,0.82 |
| 30 | 0 | 0.0261 | 0.0477 | 0.0348 | 0 | 0.0391 | 0.0783 | 0.0434 | 20- 30 | 0.0124 | 0.0187 | 2.44,2.44 |
| 40 | 0 | 0.0391 | 0.1994 | 0.0477 | 0 | 0.0652 | 0.2086 | 0.0826 | 30- 40 | 0.0358 | 0.0545 | 7.13,7.13 |
| 50 | 0 | 0.1085 | 0.3083 | 0.1042 | 0 | 0.1043 | 0.3258 | 0.1477 | 40- 50 | 0.0852 | 0.1397 | 18.3,18.3 |
| 60 | 0 | 0.1042 | 0.3170 | 0.1607 | 0 | 0.1216 | 0.3301 | 0.1910 | 50- 60 | 0.1296 | 0.2693 | 35.2,35.2 |
| 70 | 0 | 0.1303 | 0.3301 | 0.1824 | 0 | 0.1216 | 0.3301 | 0.1954 | 60- 70 | 0.1556 | 0.4249 | 55.6,55.6 |
| 80 | 0 | 0.1607 | 0.3301 | 0.1824 | 0 | 0.1216 | 0.3257 | 0.1954 | 70- 80 | 0.1693 | 0.5942 | 77.8,77.8 |
| 90 | 0 | 0.1520 | 0.3040 | 0.1737 | 0 | 0.0999 | 0.3257 | 0.1954 | 80- 90 | 0.1699 | 0.7641 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

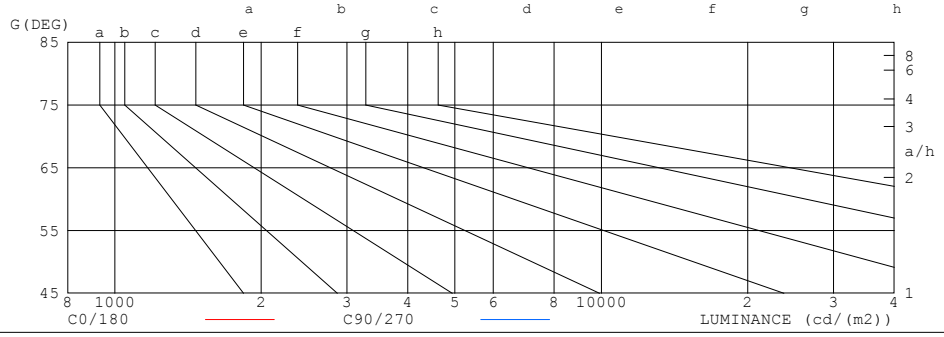
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-271204 3000K

# LUMINANCE LIMITATION CURVES

| | | |
|---|---|---|
| **Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm** | | |
| **NAME: HCP-271204 3000K** | **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 | 0 | 38 |
| 80 | 0 | 19 |
| 75 | 0 | 13 |
| 70 | 0 | 10 |
| 65 | 0 | 8 |
| 60 | 0 | 6 |
| 55 | 0 | 5 |
| 50 | 0 | 5 |
| 45 | 0 | 3 |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

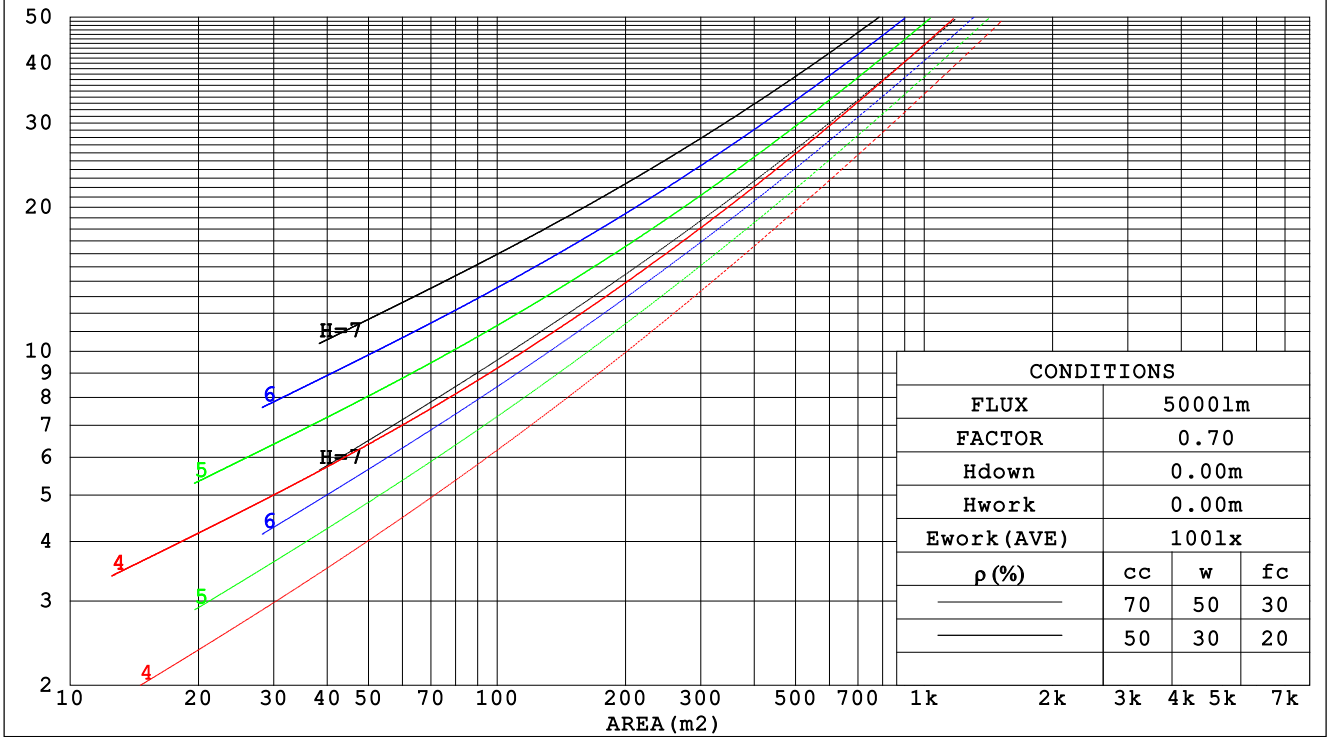
# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---|---|
| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
| NAME: HCP-271204 3000K | 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 | 1.19 | 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 | .87 | .78 | .71 | .85 | .77 | .69 | .80 | .73 | .67 | .75 | .70 | .65 | .71 | .67 | .62 | .60 |
| 2.0 | .69 | .57 | .48 | .67 | .56 | .47 | .63 | .54 | .46 | .59 | .51 | .44 | .56 | .49 | .43 | .40 |
| 3.0 | .57 | .44 | .34 | .55 | .43 | .34 | .51 | .41 | .33 | .48 | .39 | .32 | .45 | .38 | .31 | .28 |
| 4.0 | .48 | .35 | .25 | .46 | .34 | .25 | .43 | .33 | .24 | .40 | .31 | .24 | .38 | .30 | .23 | .20 |
| 5.0 | .41 | .28 | .19 | .40 | .28 | .19 | .37 | .27 | .19 | .35 | .26 | .18 | .33 | .25 | .18 | .15 |
| 6.0 | .36 | .24 | .15 | .35 | .23 | .15 | .32 | .22 | .15 | .30 | .21 | .15 | .29 | .21 | .14 | .12 |
| 7.0 | .31 | .20 | .12 | .31 | .20 | .12 | .29 | .19 | .12 | .27 | .18 | .12 | .25 | .18 | .12 | .09 |
| 8.0 | .28 | .17 | .10 | .27 | .17 | .10 | .26 | .17 | .10 | .24 | .16 | .10 | .23 | .15 | .10 | .07 |
| 9.0 | .25 | .15 | .09 | .25 | .15 | .08 | .23 | .15 | .08 | .22 | .14 | .08 | .21 | .14 | .08 | .06 |
| 10.0 | .23 | .14 | .07 | .22 | .13 | .07 | .21 | .13 | .07 | .20 | .13 | .07 | .19 | .12 | .07 | .05 |

LAMPS

LUMINAIRE BUDGETARY DIAGRAM




| CONDITIONS | | | |
|---|---|---|---|
| FLUX | 5000lm | | |
| FACTOR | 0.70 | | |
| Hdown | 0.00m | | |
| Hwork | 0.00m | | |
| Ework(AVE) | 100lx | | |
| ρ(%) | cc | w | fc |
| ——— | 70 | 50 | 30 |
| ——— | 50 | 30 | 20 |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## WEC AND CCEC

| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
|---|---|---|
| NAME: HCP-271204 3000K | 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 | .630 | .358 | .113 | .622 | .355 | .113 | .607 | .348 | .111 | .593 | .342 | .110 | .580 | .336 | .108 | |
| 2.0 | .496 | .272 | .083 | .489 | .269 | .083 | .475 | .264 | .082 | .463 | .260 | .081 | .451 | .255 | .080 | |
| 3.0 | .415 | .221 | .066 | .409 | .219 | .066 | .397 | .215 | .065 | .386 | .211 | .065 | .375 | .208 | .064 | |
| 4.0 | .358 | .186 | .055 | .352 | .184 | .055 | .342 | .181 | .054 | .332 | .178 | .054 | .322 | .175 | .053 | |
| 5.0 | .315 | .160 | .046 | .310 | .159 | .046 | .300 | .156 | .046 | .291 | .154 | .046 | .283 | .151 | .045 | |
| 6.0 | .281 | .141 | .040 | .276 | .140 | .040 | .268 | .137 | .040 | .260 | .135 | .040 | .253 | .133 | .040 | |
| 7.0 | .253 | .125 | .036 | .249 | .124 | .035 | .242 | .122 | .035 | .235 | .120 | .035 | .228 | .119 | .035 | |
| 8.0 | .231 | .113 | .032 | .227 | .112 | .032 | .221 | .110 | .031 | .214 | .109 | .031 | .208 | .107 | .031 | |
| 9.0 | .212 | .102 | .029 | .209 | .102 | .029 | .203 | .100 | .028 | .197 | .099 | .028 | .192 | .097 | .028 | |
| 10.0 | .196 | .094 | .026 | .193 | .093 | .026 | .187 | .092 | .026 | .182 | .091 | .026 | .178 | .089 | .026 | |

| 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 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .202 | .153 | .109 | .173 | .132 | .094 | .118 | .091 | .065 | .068 | .052 | .038 | .022 | .017 | .012 | |
| 2.0 | .199 | .131 | .073 | .171 | .113 | .063 | .117 | .078 | .044 | .068 | .045 | .026 | .022 | .015 | .008 | |
| 3.0 | .192 | .115 | .054 | .165 | .099 | .047 | .113 | .069 | .033 | .065 | .040 | .019 | .021 | .013 | .006 | |
| 4.0 | .184 | .103 | .042 | .158 | .089 | .037 | .108 | .062 | .026 | .063 | .036 | .015 | .020 | .012 | .005 | |
| 5.0 | .174 | .094 | .035 | .150 | .081 | .030 | .103 | .057 | .021 | .060 | .033 | .013 | .019 | .011 | .004 | |
| 6.0 | .165 | .086 | .029 | .142 | .075 | .026 | .098 | .052 | .018 | .057 | .031 | .011 | .018 | .010 | .004 | |
| 7.0 | .156 | .079 | .026 | .134 | .069 | .022 | .093 | .048 | .016 | .054 | .028 | .009 | .017 | .009 | .003 | |
| 8.0 | .148 | .074 | .023 | .127 | .064 | .020 | .088 | .045 | .014 | .051 | .026 | .008 | .017 | .009 | .003 | |
| 9.0 | .140 | .069 | .021 | .120 | .060 | .018 | .083 | .042 | .013 | .049 | .025 | .008 | .016 | .008 | .003 | |
| 10.0 | .132 | .064 | .019 | .114 | .056 | .017 | .079 | .039 | .012 | .046 | .023 | .007 | .015 | .008 | .002 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## UGR(Unified Glare Rating) Table

| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
|---|---|---|
| NAME: HCP-271204 3000K | 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 | 5.4 | 7.5 | 5.7 | 7.7 | 8.0 | 22.0 | 24.1 | 22.3 | 24.4 | 24.6 |
| | 3H | 5.1 | 7.1 | 5.4 | 7.4 | 7.7 | 25.8 | 27.8 | 26.1 | 28.1 | 28.3 |
| | 4H | 5.0 | 6.9 | 5.3 | 7.2 | 7.5 | 27.8 | 29.7 | 28.1 | 30.0 | 30.3 |
| | 6H | 4.8 | 6.7 | 5.2 | 7.0 | 7.3 | 30.0 | 31.8 | 30.3 | 32.1 | 32.4 |
| | 8H | 4.8 | 6.6 | 5.1 | 6.9 | 7.2 | 31.2 | 33.0 | 31.5 | 33.3 | 33.6 |
| | 12H | 4.7 | 6.4 | 5.1 | 6.8 | 7.1 | 32.5 | 34.3 | 32.9 | 34.6 | 35.0 |
| 4H | 2H | 14.5 | 16.4 | 14.8 | 16.7 | 17.0 | 22.1 | 24.0 | 22.4 | 24.3 | 24.6 |
| | 3H | 15.2 | 17.0 | 15.6 | 17.3 | 17.7 | 26.3 | 28.1 | 26.7 | 28.4 | 28.8 |
| | 4H | 15.3 | 16.9 | 15.7 | 17.3 | 17.7 | 28.7 | 30.3 | 29.1 | 30.7 | 31.1 |
| | 6H | 15.2 | 16.7 | 15.6 | 17.1 | 17.5 | 31.1 | 32.7 | 31.6 | 33.0 | 33.4 |
| | 8H | 15.1 | 16.6 | 15.5 | 16.9 | 17.4 | 32.5 | 33.9 | 32.9 | 34.3 | 34.7 |
| | 12H | 15.1 | 16.4 | 15.5 | 16.8 | 17.3 | 34.0 | 35.4 | 34.5 | 35.8 | 36.2 |
| 8H | 4H | 21.1 | 22.6 | 21.6 | 23.0 | 23.4 | 28.9 | 30.3 | 29.3 | 30.7 | 31.1 |
| | 6H | 21.7 | 23.0 | 22.2 | 23.4 | 23.9 | 31.7 | 33.0 | 32.2 | 33.4 | 33.9 |
| | 8H | 21.8 | 22.9 | 22.3 | 23.4 | 23.9 | 33.3 | 34.5 | 33.8 | 34.9 | 35.4 |
| | 12H | 21.7 | 22.8 | 22.2 | 23.3 | 23.8 | 35.1 | 36.2 | 35.6 | 36.6 | 37.1 |
| 12H | 4H | 22.7 | 24.1 | 23.2 | 24.5 | 24.9 | 28.8 | 30.2 | 29.3 | 30.6 | 31.0 |
| | 6H | 24.0 | 25.2 | 24.5 | 25.7 | 26.1 | 31.8 | 33.0 | 32.3 | 33.4 | 33.9 |
| | 8H | 24.5 | 25.5 | 25.0 | 26.0 | 26.5 | 33.5 | 34.5 | 34.0 | 35.0 | 35.5 |

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

CIE Pub.117, 0.7641 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -24.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

# UTILIZATION FACTORS TABLE

| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
|---|---|---|
| NAME: HCP-271204 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

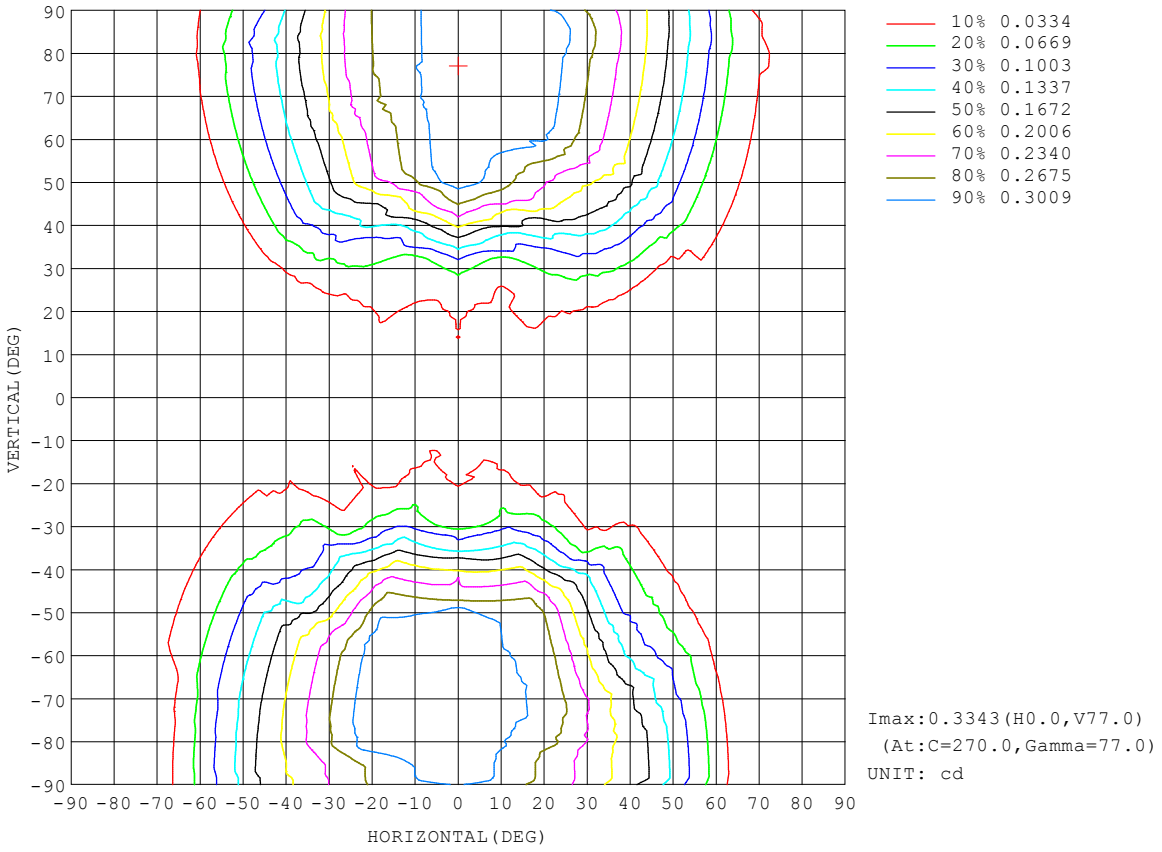
| REFLECTANCE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 37 | 22 | 13 | 36 | 22 | 13 | 35 | 21 | 12 | 4 |
| 0.80 | 46 | 29 | 19 | 44 | 29 | 19 | 42 | 28 | 18 | 9 |
| 1.00 | 53 | 37 | 26 | 52 | 36 | 26 | 49 | 39 | 25 | 15 |
| 1.25 | 61 | 44 | 33 | 59 | 43 | 32 | 55 | 41 | 32 | 21 |
| 1.50 | 66 | 50 | 39 | 64 | 49 | 38 | 60 | 47 | 37 | 26 |
| 2.00 | 75 | 60 | 49 | 73 | 58 | 48 | 68 | 56 | 46 | 35 |
| 2.50 | 81 | 67 | 56 | 78 | 65 | 55 | 73 | 62 | 53 | 41 |
| 3.00 | 86 | 73 | 62 | 83 | 71 | 61 | 77 | 67 | 59 | 47 |
| 4.00 | 92 | 80 | 71 | 89 | 78 | 70 | 83 | 75 | 67 | 55 |
| 5.00 | 96 | 86 | 77 | 93 | 84 | 76 | 87 | 80 | 73 | 61 |
| 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:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
| NAME: HCP-271204 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

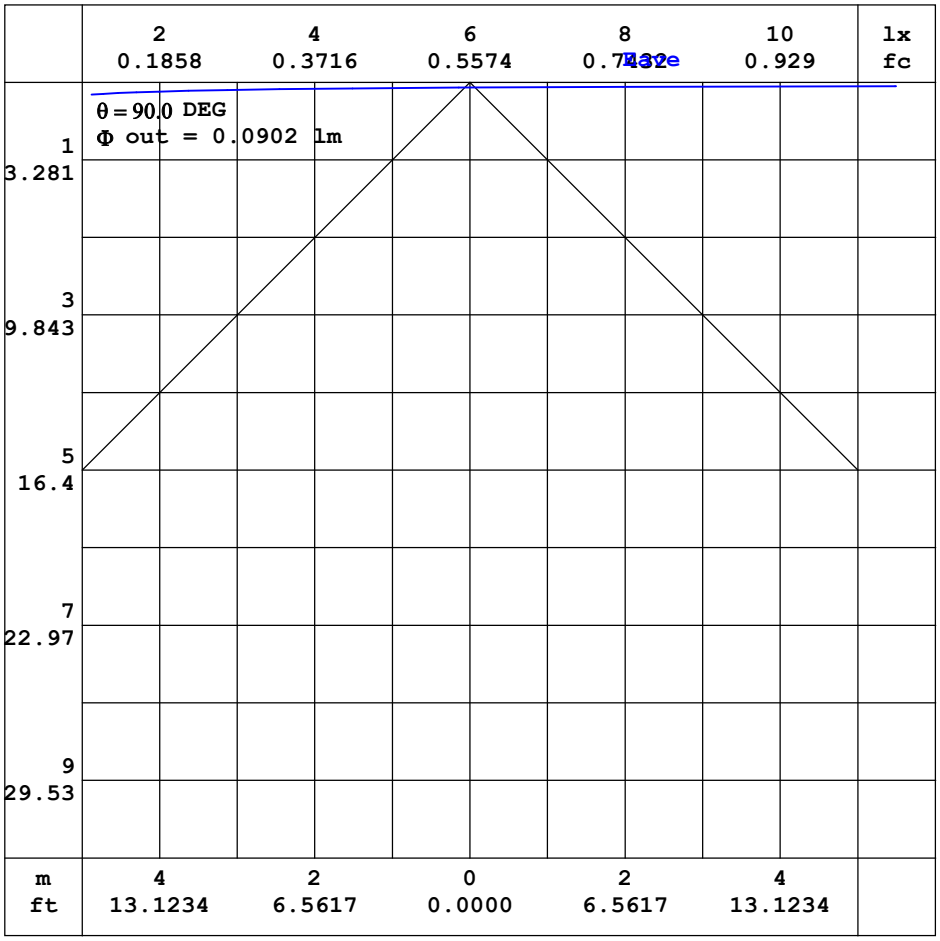



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## AAI CURVES

| | | |
|---|---|---|
| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
| NAME: HCP-271204 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |



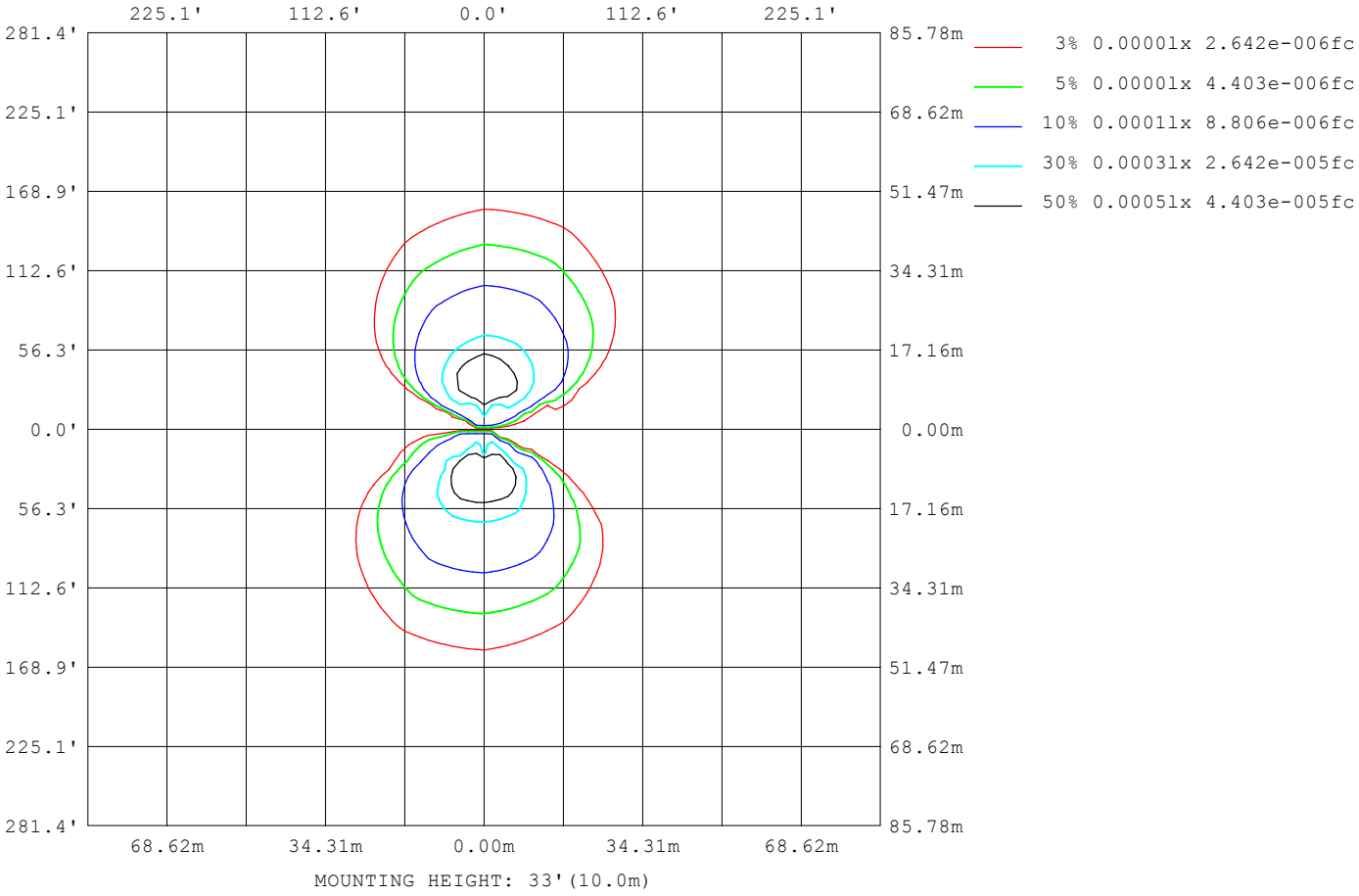

**Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.**

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## ISOLUX DIAGRAM

| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
|---|---|---|
| NAME: HCP-271204 3000K | 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:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## LED Avg.L Report

| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
|---|---|---|
| NAME: HCP-271204 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

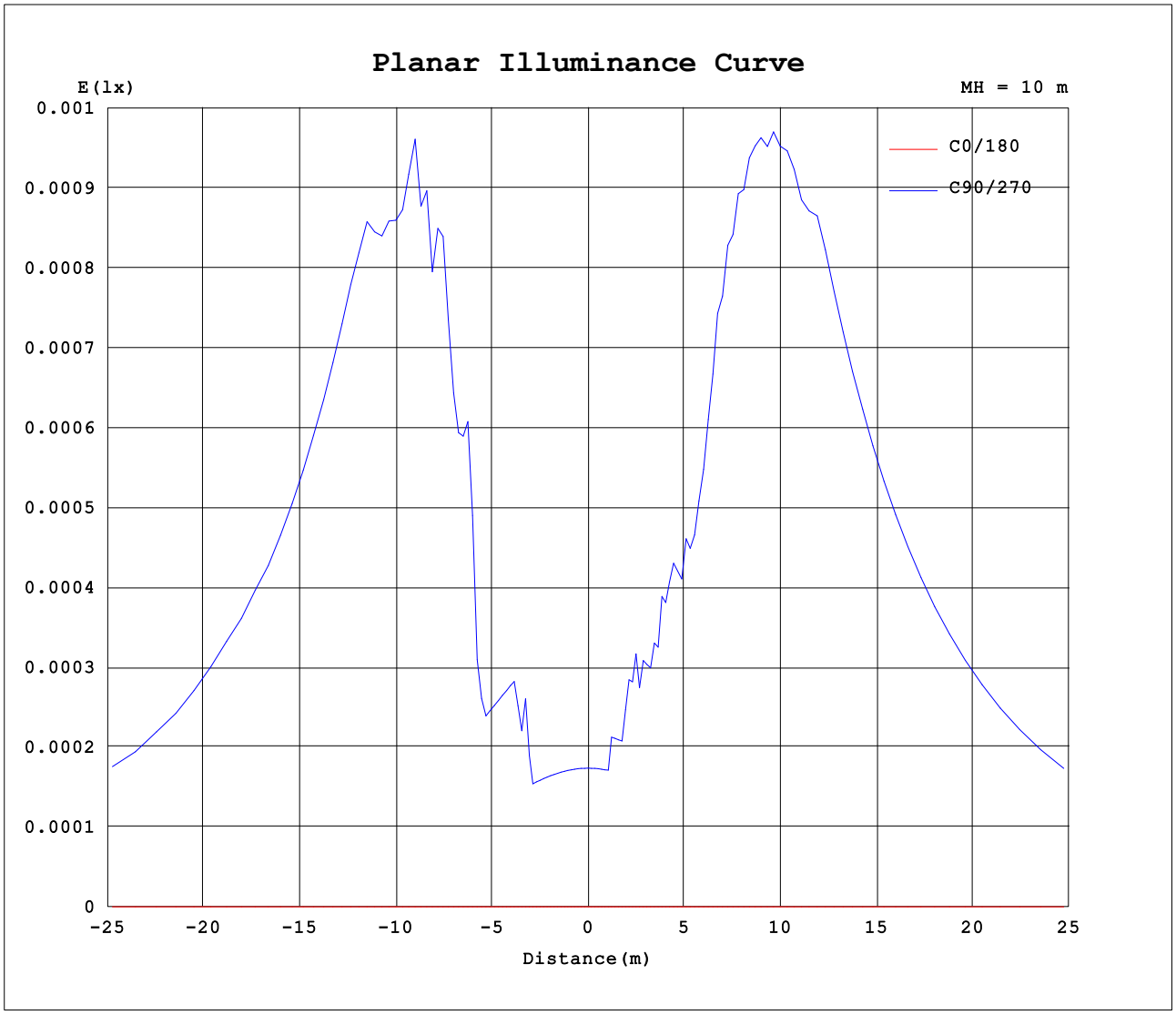
| AvgL | cd/m2 |
|---|---|
| L_0~180(65)av | 0 |
| L_0~180(75)av | 0 |
| L_0~180(85)av | 0 |
| L_90~270(65)av | 8 |
| L_90~270(75)av | 13 |
| L_90~270(85)av | 38 |
| L_45(65)av | 4 |
| L_45(75)av | 6 |
| L_45(85)av | 19 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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-271204 3000K

# LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
| Test:U:23.997V I:0.0499A P:1.1975W PF:1.0000 Freq:50.00Hz Lamp Flux:0.764117x1 lm | | |
| NAME: HCP-271204 3000K | 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 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | | | |
| 5 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | | | |
| 10 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | | | |
| 15 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.01 | | | |
| 20 | 0.00 | 0.00 | 0.02 | 0.05 | 0.03 | 0.05 | 0.02 | 0.02 | 0.00 | 0.00 | 0.03 | 0.02 | 0.04 | 0.02 | 0.03 | 0.01 | | | |
| 25 | 0.00 | 0.00 | 0.02 | 0.06 | 0.03 | 0.06 | 0.02 | 0.02 | 0.00 | 0.00 | 0.04 | 0.04 | 0.06 | 0.03 | 0.04 | 0.01 | | | |
| 30 | 0.00 | 0.00 | 0.03 | 0.08 | 0.05 | 0.09 | 0.03 | 0.03 | 0.00 | 0.00 | 0.04 | 0.03 | 0.08 | 0.03 | 0.04 | 0.01 | | | |
| 35 | 0.00 | 0.00 | 0.04 | 0.13 | 0.12 | 0.14 | 0.03 | 0.03 | 0.00 | 0.00 | 0.04 | 0.06 | 0.14 | 0.08 | 0.06 | 0.01 | | | |
| 40 | 0.00 | 0.00 | 0.04 | 0.18 | 0.20 | 0.20 | 0.05 | 0.03 | 0.00 | 0.00 | 0.07 | 0.11 | 0.21 | 0.12 | 0.08 | 0.01 | | | |
| 45 | 0.00 | 0.00 | 0.05 | 0.23 | 0.24 | 0.25 | 0.11 | 0.03 | 0.00 | 0.00 | 0.09 | 0.17 | 0.27 | 0.18 | 0.12 | 0.01 | | | |
| 50 | 0.00 | 0.00 | 0.11 | 0.27 | 0.31 | 0.28 | 0.10 | 0.04 | 0.00 | 0.00 | 0.10 | 0.21 | 0.33 | 0.24 | 0.15 | 0.01 | | | |
| 55 | 0.00 | 0.00 | 0.10 | 0.29 | 0.31 | 0.30 | 0.12 | 0.04 | 0.00 | 0.00 | 0.12 | 0.24 | 0.33 | 0.26 | 0.17 | 0.02 | | | |
| 60 | 0.00 | 0.00 | 0.10 | 0.29 | 0.32 | 0.32 | 0.16 | 0.04 | 0.00 | 0.00 | 0.12 | 0.24 | 0.33 | 0.30 | 0.19 | 0.03 | | | |
| 65 | 0.00 | 0.00 | 0.12 | 0.29 | 0.32 | 0.32 | 0.18 | 0.04 | 0.00 | 0.00 | 0.12 | 0.25 | 0.33 | 0.31 | 0.20 | 0.04 | | | |
| 70 | 0.00 | 0.00 | 0.13 | 0.29 | 0.33 | 0.32 | 0.18 | 0.04 | 0.00 | 0.00 | 0.12 | 0.26 | 0.33 | 0.31 | 0.20 | 0.04 | | | |
| 75 | 0.00 | 0.00 | 0.15 | 0.29 | 0.33 | 0.32 | 0.18 | 0.04 | 0.00 | 0.00 | 0.12 | 0.26 | 0.33 | 0.31 | 0.20 | 0.04 | | | |
| 80 | 0.00 | 0.00 | 0.16 | 0.27 | 0.33 | 0.31 | 0.18 | 0.03 | 0.00 | 0.00 | 0.12 | 0.26 | 0.33 | 0.31 | 0.20 | 0.04 | | | |
| 85 | 0.00 | 0.00 | 0.17 | 0.25 | 0.33 | 0.27 | 0.18 | 0.03 | 0.00 | 0.00 | 0.12 | 0.26 | 0.33 | 0.32 | 0.20 | 0.04 | | | |
| 90 | 0.00 | 0.00 | 0.15 | 0.25 | 0.30 | 0.26 | 0.17 | 0.03 | 0.00 | 0.00 | 0.10 | 0.26 | 0.33 | 0.30 | 0.20 | 0.03 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2023-12-13

γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
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Remarks: HCP-271204 3000K