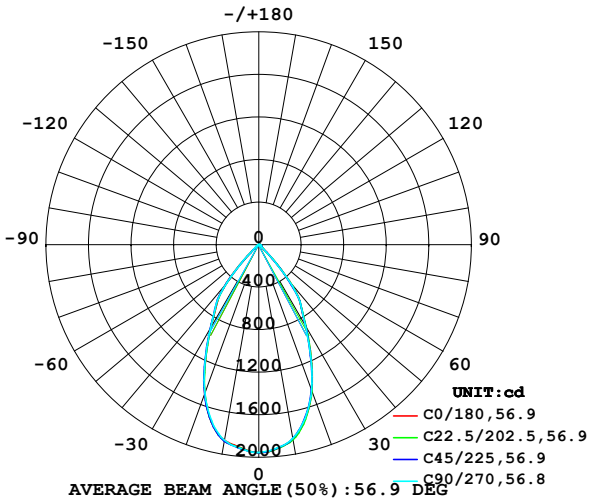
# LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

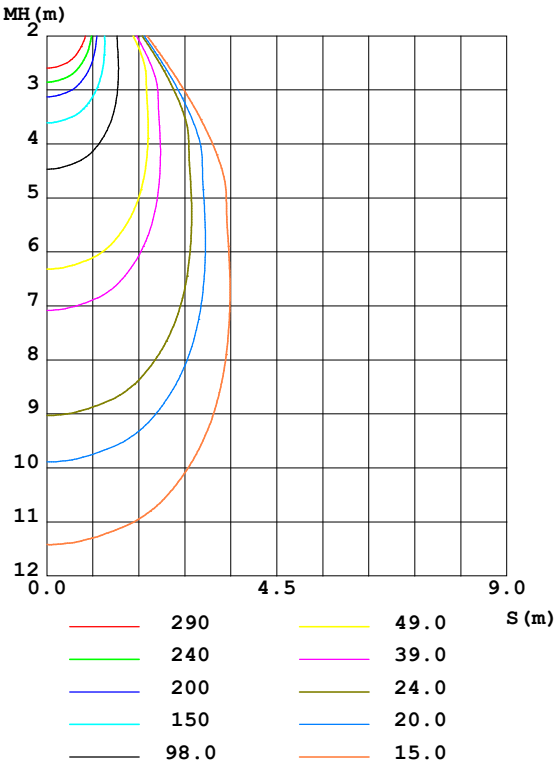
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 68.32 lm/W | |
|---|---|---|---|---|---|
| MODEL | HCP-81222128-28W 3000K | Imax(cd) | 1956 | S/MH(C0/180) | 0.88 |
| NOMINAL POWER(W) | 28 | LOR(%) | 100.0 | S/MH(C90/270) | 0.88 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 1795.9 | η UP,DN(C0-180) | 0.0,49.6 |
| NOMINAL FLUX(lm) | 1795.94 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,50.4 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 220 | η down(%) | 100.0 | CIBSE SHR MAX | 0.95 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):56.9 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:2024-03-01

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-81222128-28W 3000K

# ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 1857 | 1850 | 1849 | 1848 | 1868 | 1875 | 1868 | 1855 | 0- 10 | 181.7 | 181.7 | 10.1,10.1 |
| 20 | 1457 | 1449 | 1452 | 1468 | 1487 | 1494 | 1486 | 1470 | 10- 20 | 473.4 | 655.1 | 36.5,36.5 |
| 30 | 882.4 | 879.4 | 875.1 | 895.3 | 910.1 | 915.9 | 911.8 | 905.4 | 20- 30 | 537.4 | 1193 | 66.4,66.4 |
| 40 | 449.8 | 428.6 | 438.6 | 459.6 | 475.0 | 473.0 | 465.7 | 460.3 | 30- 40 | 428.6 | 1621 | 90.3,90.3 |
| 50 | 40.82 | 39.70 | 37.83 | 35.58 | 36.27 | 39.42 | 45.60 | 44.52 | 40- 50 | 138.2 | 1759 | 98,98 |
| 60 | 16.69 | 17.14 | 16.08 | 16.14 | 16.68 | 16.88 | 17.46 | 16.95 | 50- 60 | 22.82 | 1782 | 99.2,99.2 |
| 70 | 6.023 | 6.181 | 5.412 | 5.719 | 6.045 | 5.993 | 5.807 | 6.067 | 60- 70 | 10.71 | 1793 | 99.8,99.8 |
| 80 | 0.9306 | 0.7746 | 0.6353 | 0.6919 | 0.7326 | 0.5855 | 0.5721 | 0.5935 | 70- 80 | 2.800 | 1796 | 100,100 |
| 90 | 0.0825 | 0.0782 | 0.0782 | 0.0738 | 0.0912 | 0.0869 | 0.0869 | 0.0999 | 80- 90 | 0.2914 | 1796 | 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:2024-03-01

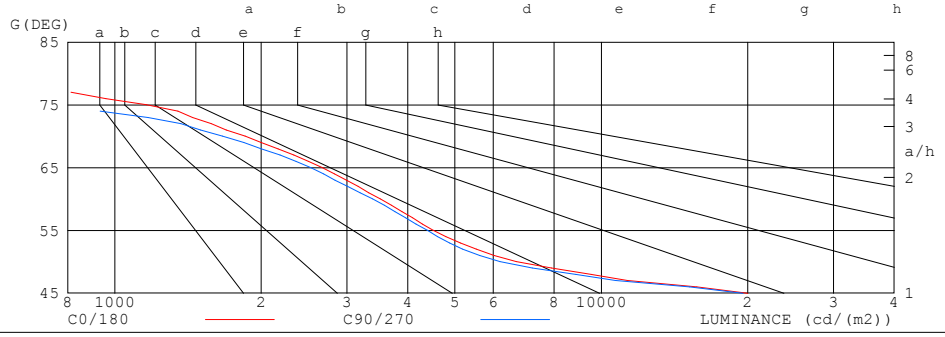
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 3000K

# LUMINANCE LIMITATION CURVES

| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
|---|---|---|
| NAME: HCP-81222128-28W 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 | 375 | 195 |
| 80 | 564 | 385 |
| 75 | 1162 | 755 |
| 70 | 1854 | 1666 |
| 65 | 2667 | 2525 |
| 60 | 3514 | 3386 |
| 55 | 4510 | 4386 |
| 50 | 6684 | 6195 |
| 45 | 20006 | 19542 |

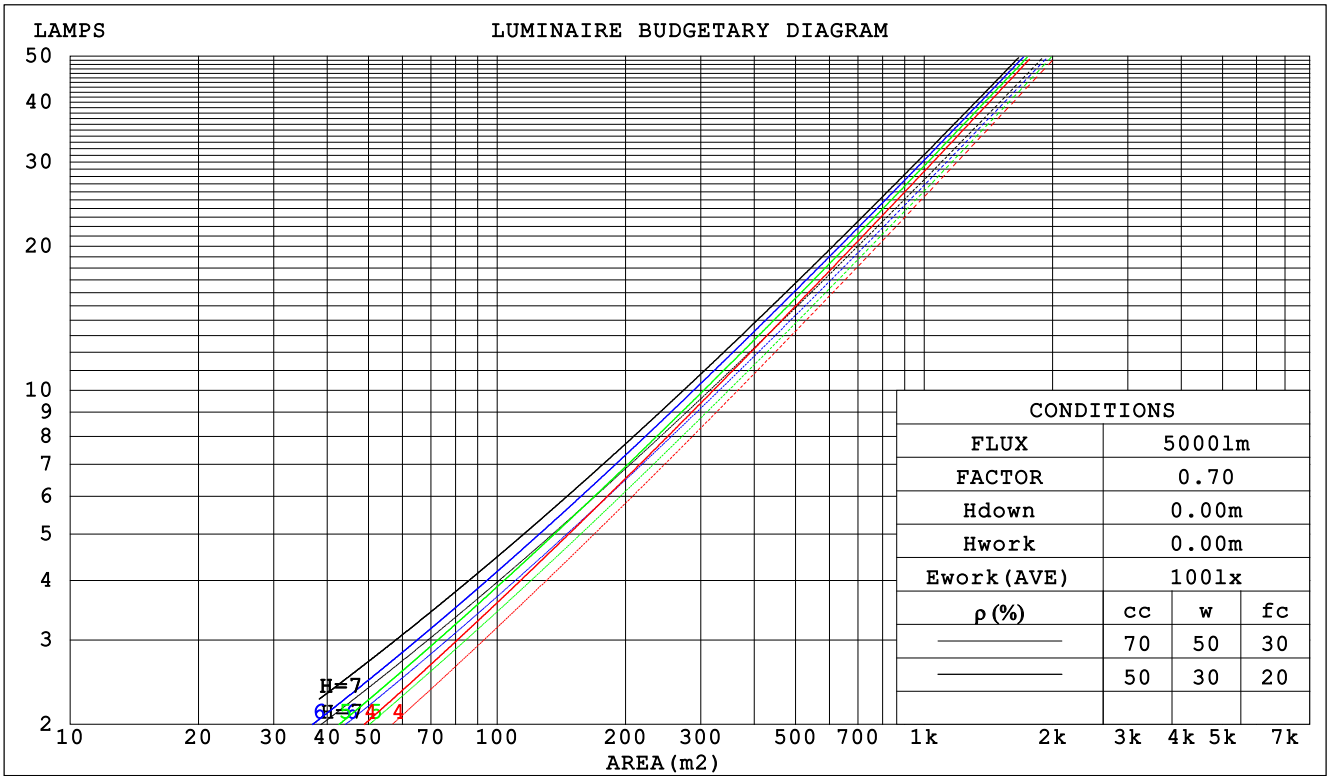
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 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 | 1.00 |
| 1.0 | 1.11 | 1.08 | 1.06 | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.01 | 1.01 | .99 | .98 | .97 | .96 | .95 | .93 |
| 2.0 | 1.03 | .98 | .95 | 1.01 | .97 | .94 | .98 | .95 | .92 | .95 | .92 | .90 | .92 | .90 | .88 | .86 |
| 3.0 | .95 | .90 | .86 | .94 | .89 | .85 | .91 | .87 | .84 | .89 | .86 | .83 | .87 | .84 | .82 | .80 |
| 4.0 | .89 | .83 | .79 | .88 | .82 | .78 | .86 | .81 | .77 | .84 | .80 | .77 | .82 | .78 | .76 | .74 |
| 5.0 | .83 | .77 | .73 | .82 | .76 | .72 | .80 | .75 | .72 | .78 | .74 | .71 | .77 | .73 | .70 | .69 |
| 6.0 | .78 | .71 | .67 | .77 | .71 | .67 | .75 | .70 | .66 | .74 | .69 | .66 | .73 | .69 | .65 | .64 |
| 7.0 | .73 | .67 | .62 | .72 | .66 | .62 | .71 | .66 | .62 | .70 | .65 | .61 | .68 | .64 | .61 | .60 |
| 8.0 | .68 | .62 | .58 | .68 | .62 | .58 | .67 | .61 | .58 | .66 | .61 | .57 | .65 | .60 | .57 | .56 |
| 9.0 | .64 | .58 | .54 | .64 | .58 | .54 | .63 | .58 | .54 | .62 | .57 | .54 | .61 | .57 | .54 | .52 |
| 10.0 | .61 | .55 | .51 | .60 | .55 | .51 | .60 | .54 | .51 | .59 | .54 | .51 | .58 | .54 | .50 | .49 |




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

## WEC AND CCEC

| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
|---|---|---|
| NAME: HCP-81222128-28W 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 | .182 | .104 | .033 | .175 | .100 | .032 | .163 | .093 | .030 | .151 | .087 | .028 | .141 | .081 | .026 | |
| 2.0 | .175 | .096 | .029 | .170 | .093 | .029 | .159 | .088 | .027 | .149 | .084 | .026 | .140 | .079 | .025 | |
| 3.0 | .167 | .089 | .027 | .163 | .087 | .026 | .154 | .083 | .025 | .145 | .080 | .024 | .137 | .076 | .024 | |
| 4.0 | .160 | .083 | .024 | .156 | .081 | .024 | .148 | .078 | .023 | .140 | .075 | .023 | .134 | .073 | .022 | |
| 5.0 | .152 | .078 | .023 | .149 | .076 | .022 | .142 | .074 | .022 | .135 | .071 | .021 | .129 | .069 | .021 | |
| 6.0 | .146 | .073 | .021 | .142 | .072 | .021 | .136 | .070 | .020 | .131 | .068 | .020 | .125 | .066 | .020 | |
| 7.0 | .139 | .069 | .019 | .136 | .068 | .019 | .131 | .066 | .019 | .126 | .065 | .019 | .121 | .063 | .018 | |
| 8.0 | .133 | .065 | .018 | .131 | .064 | .018 | .126 | .063 | .018 | .121 | .061 | .018 | .117 | .060 | .017 | |
| 9.0 | .128 | .062 | .017 | .125 | .061 | .017 | .121 | .060 | .017 | .117 | .059 | .017 | .113 | .057 | .017 | |
| 10.0 | .122 | .059 | .016 | .120 | .058 | .016 | .116 | .057 | .016 | .113 | .056 | .016 | .109 | .055 | .016 | |

| 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 | .171 | .157 | .144 | .147 | .135 | .124 | .100 | .093 | .086 | .058 | .054 | .050 | .019 | .017 | .016 | |
| 2.0 | .157 | .132 | .112 | .134 | .114 | .097 | .092 | .079 | .068 | .053 | .046 | .040 | .017 | .015 | .013 | |
| 3.0 | .145 | .114 | .089 | .124 | .098 | .077 | .085 | .068 | .054 | .049 | .040 | .032 | .016 | .013 | .010 | |
| 4.0 | .135 | .099 | .072 | .116 | .086 | .062 | .080 | .060 | .044 | .046 | .035 | .026 | .015 | .011 | .009 | |
| 5.0 | .126 | .087 | .059 | .109 | .076 | .051 | .075 | .053 | .036 | .043 | .031 | .021 | .014 | .010 | .007 | |
| 6.0 | .119 | .078 | .049 | .102 | .068 | .043 | .071 | .047 | .030 | .041 | .028 | .018 | .013 | .009 | .006 | |
| 7.0 | .113 | .071 | .041 | .097 | .061 | .036 | .067 | .043 | .026 | .039 | .025 | .015 | .013 | .008 | .005 | |
| 8.0 | .107 | .065 | .035 | .092 | .056 | .031 | .064 | .039 | .022 | .037 | .023 | .013 | .012 | .008 | .004 | |
| 9.0 | .102 | .060 | .031 | .088 | .052 | .027 | .061 | .036 | .019 | .036 | .021 | .011 | .012 | .007 | .004 | |
| 10.0 | .098 | .055 | .027 | .084 | .048 | .023 | .058 | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

## UGR(Unified Glare Rating) Table

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 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 | 17.9 | 18.8 | 18.1 | 19.0 | 19.2 | 17.8 | 18.8 | 18.0 | 19.0 | 19.1 |
| 3H | 17.7 | 18.6 | 18.0 | 18.8 | 19.0 | 17.7 | 18.6 | 17.9 | 18.8 | 19.0 |
| 4H | 17.6 | 18.5 | 17.9 | 18.7 | 18.9 | 17.6 | 18.4 | 17.9 | 18.6 | 18.9 |
| 6H | 17.5 | 18.3 | 17.8 | 18.6 | 18.8 | 17.5 | 18.3 | 17.8 | 18.5 | 18.8 |
| 8H | 17.5 | 18.3 | 17.8 | 18.5 | 18.8 | 17.4 | 18.2 | 17.7 | 18.5 | 18.7 |
| 12H | 17.4 | 18.2 | 17.8 | 18.5 | 18.7 | 17.4 | 18.1 | 17.7 | 18.4 | 18.7 |
| 4H 2H | 17.6 | 18.5 | 17.9 | 18.7 | 18.9 | 17.6 | 18.4 | 17.8 | 18.6 | 18.9 |
| 3H | 17.5 | 18.2 | 17.8 | 18.5 | 18.8 | 17.4 | 18.2 | 17.7 | 18.4 | 18.7 |
| 4H | 17.4 | 18.1 | 17.7 | 18.4 | 18.7 | 17.3 | 18.0 | 17.7 | 18.3 | 18.6 |
| 6H | 17.3 | 17.9 | 17.7 | 18.2 | 18.6 | 17.2 | 17.8 | 17.6 | 18.2 | 18.5 |
| 8H | 17.3 | 17.8 | 17.6 | 18.1 | 18.5 | 17.2 | 17.7 | 17.6 | 18.1 | 18.4 |
| 12H | 17.2 | 17.7 | 17.6 | 18.1 | 18.5 | 17.1 | 17.6 | 17.6 | 18.0 | 18.4 |
| 8H 4H | 17.3 | 17.8 | 17.6 | 18.1 | 18.5 | 17.2 | 17.7 | 17.6 | 18.1 | 18.5 |
| 6H | 17.2 | 17.6 | 17.6 | 18.0 | 18.4 | 17.1 | 17.5 | 17.5 | 17.9 | 18.3 |
| 8H | 17.1 | 17.5 | 17.6 | 17.9 | 18.4 | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 |
| 12H | 17.1 | 17.4 | 17.5 | 17.8 | 18.3 | 17.0 | 17.3 | 17.5 | 17.8 | 18.2 |
| 12H 4H | 17.2 | 17.7 | 17.6 | 18.1 | 18.5 | 17.1 | 17.6 | 17.6 | 18.0 | 18.4 |
| 6H | 17.1 | 17.5 | 17.6 | 17.9 | 18.3 | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 |
| 8H | 17.1 | 17.4 | 17.5 | 17.8 | 18.3 | 17.0 | 17.3 | 17.5 | 17.8 | 18.2 |

| Variations with the observer position at spacings: | | |
|---|---|---|
| S = 1.0H | + 2.9 / -11.1 | + 2.9 / -11.4 |
| 1.5H | + 5.4 / - 9.7 | + 5.5 / - 9.7 |
| 2.0H | + 6.5 / - 3.9 | + 6.6 / - 3.7 |

CIE Pub.117, 1796 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.0)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

# UTILIZATION FACTORS TABLE

| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
|---|---|---|
| NAME: HCP-81222128-28W 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

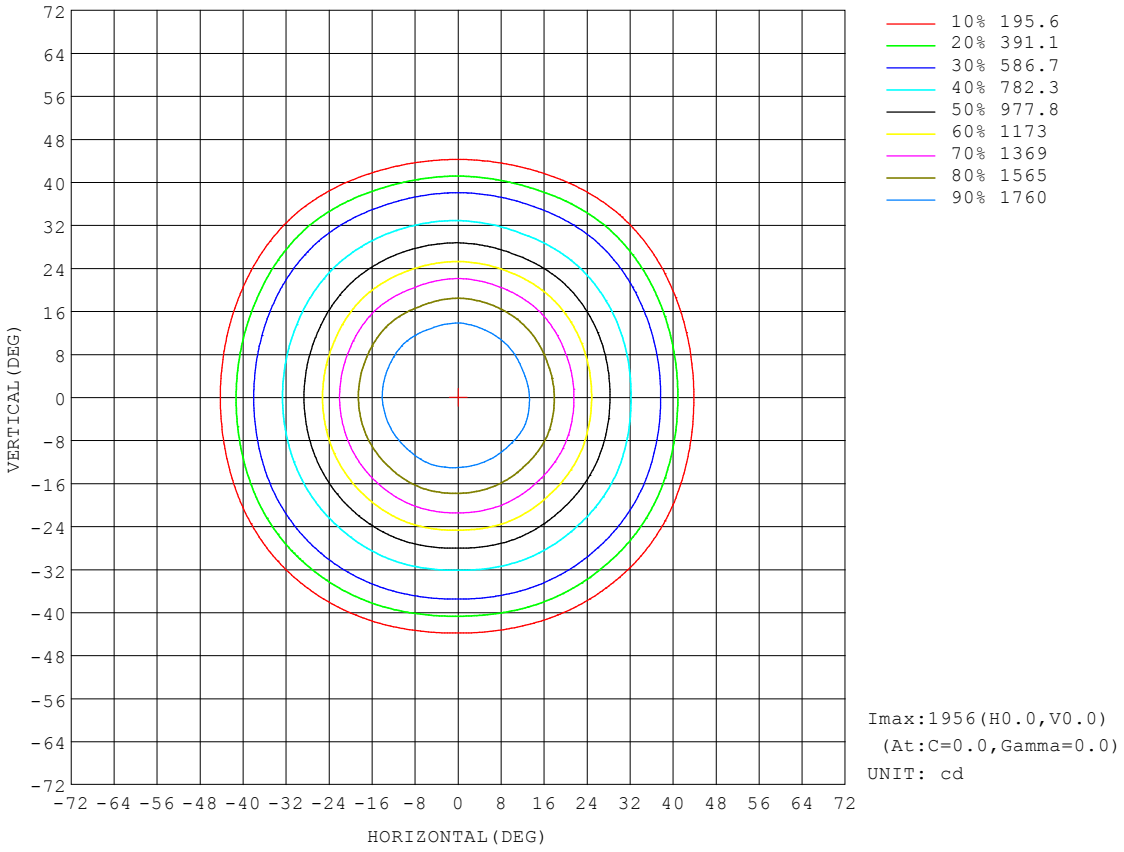
| REFLECTANCE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 85 | 79 | 75 | 85 | 79 | 75 | 84 | 78 | 75 | 71 |
| 0.80 | 93 | 87 | 83 | 93 | 87 | 83 | 91 | 86 | 83 | 79 |
| 1.00 | 98 | 92 | 88 | 97 | 92 | 88 | 96 | 92 | 88 | 84 |
| 1.25 | 102 | 97 | 93 | 101 | 96 | 93 | 99 | 95 | 92 | 88 |
| 1.50 | 105 | 100 | 97 | 104 | 100 | 96 | 102 | 98 | 95 | 91 |
| 2.00 | 108 | 104 | 101 | 107 | 103 | 100 | 104 | 101 | 98 | 93 |
| 2.50 | 110 | 106 | 103 | 108 | 105 | 102 | 105 | 102 | 100 | 94 |
| 3.00 | 111 | 108 | 105 | 110 | 107 | 104 | 106 | 104 | 102 | 95 |
| 4.00 | 114 | 111 | 108 | 111 | 109 | 107 | 108 | 106 | 104 | 97 |
| 5.00 | 115 | 112 | 110 | 113 | 111 | 109 | 109 | 107 | 106 | 98 |
| 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:2024-03-01

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-81222128-28W 3000K

## ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

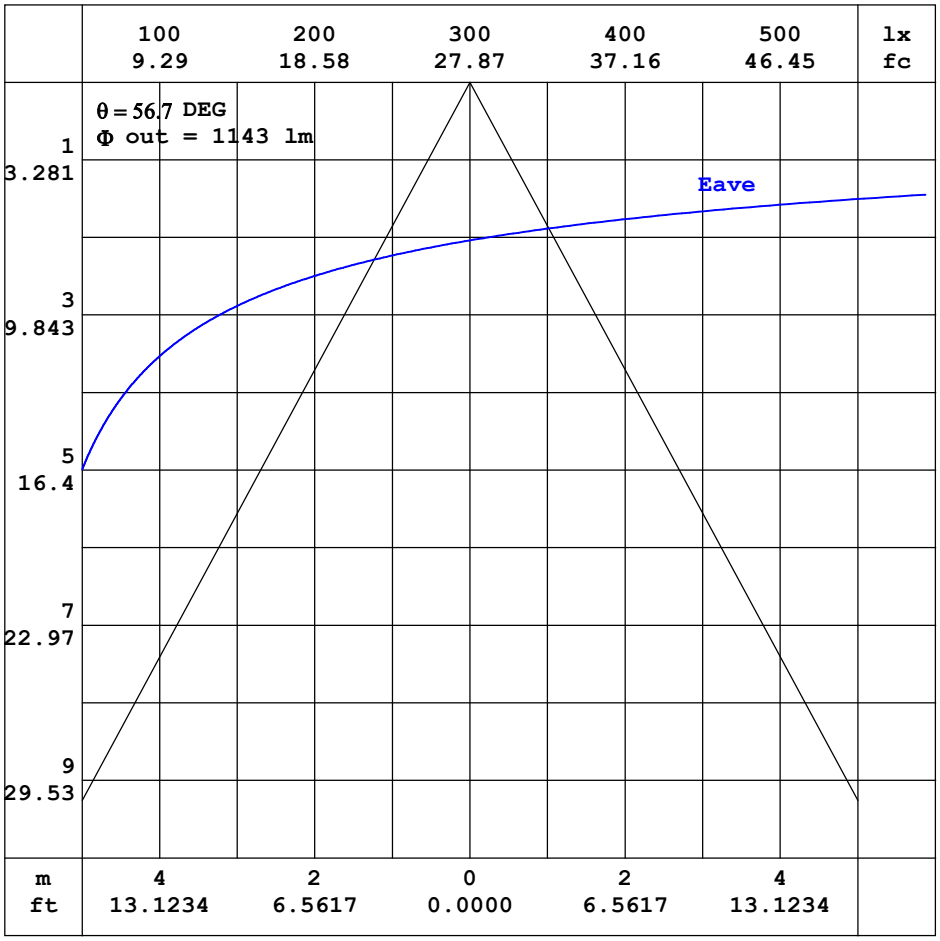



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

## AAI CURVES

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |



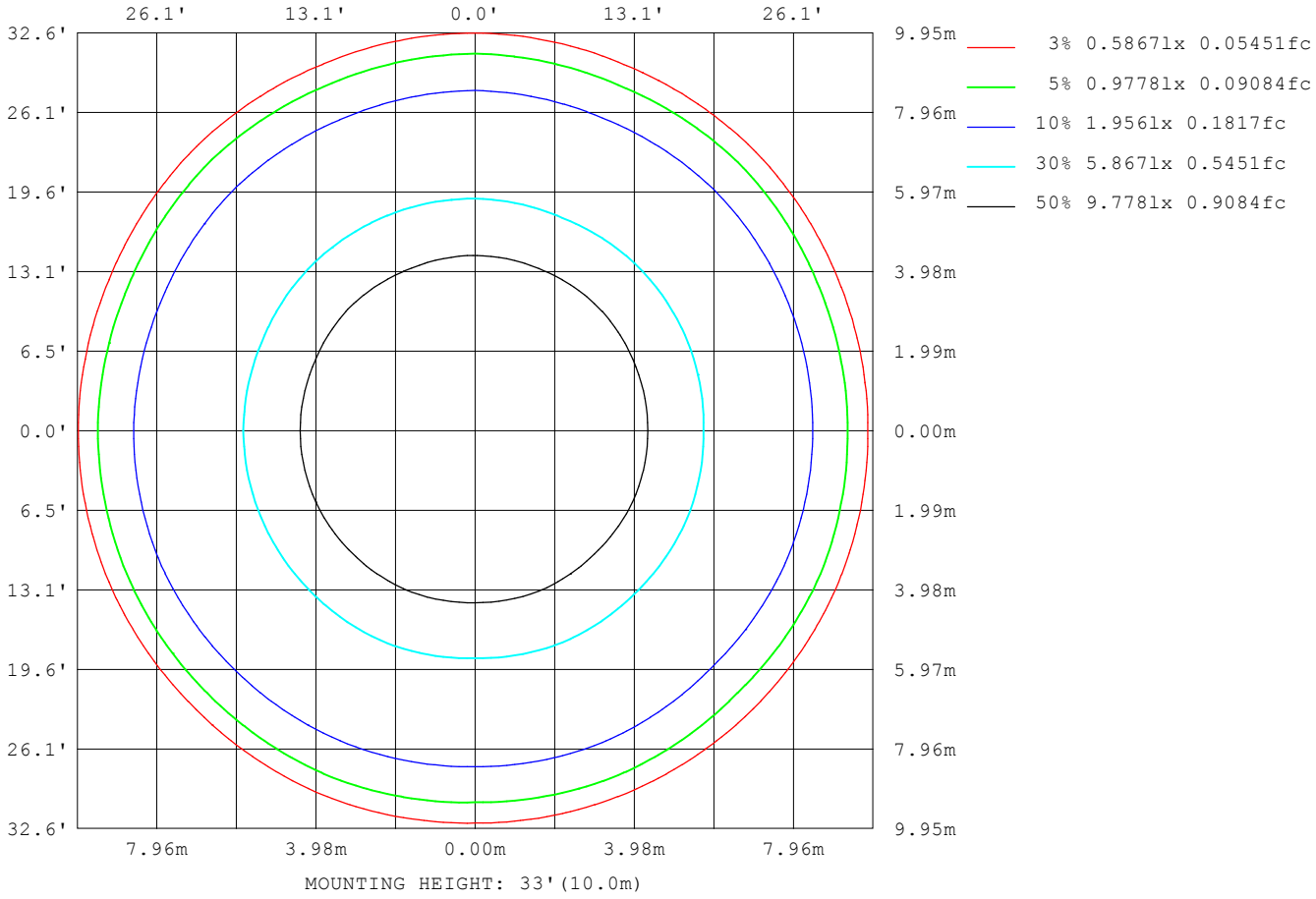

**Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.**

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

## ISOLUX DIAGRAM

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 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:2024-03-01

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-81222128-28W 3000K

## LED Avg.L Report

| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
|---|---|---|
| NAME: HCP-81222128-28W 3000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ONIKE | SUR.: | Shielding Angle: |

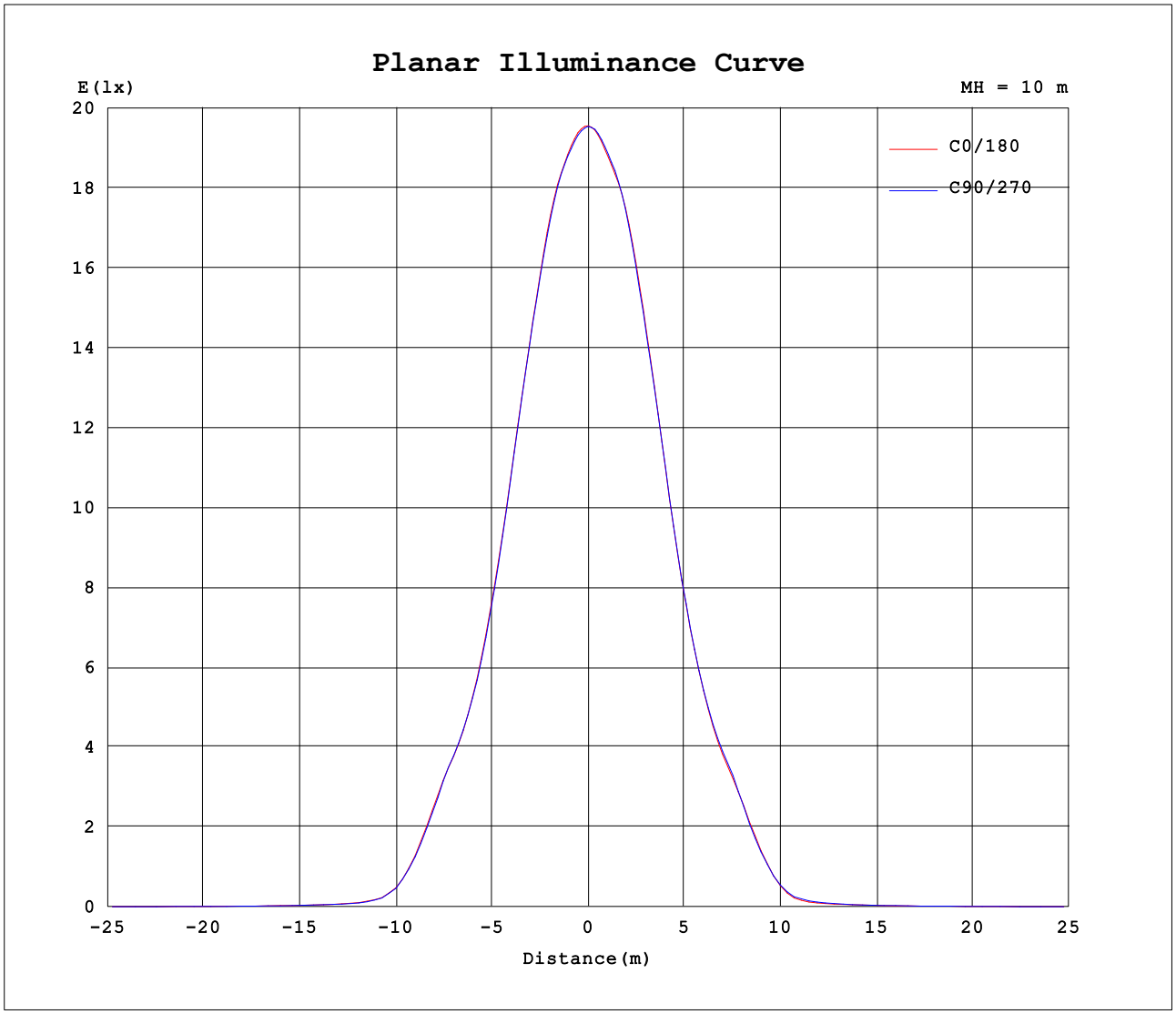
| AvgL | cd/m2 |
|---|---|
| L_0~180(65)av | 2665 |
| L_0~180(75)av | 1091 |
| L_0~180(85)av | 339 |
| L_90~270(65)av | 2595 |
| L_90~270(75)av | 779 |
| L_90~270(85)av | 186 |
| L_45(65)av | 2706 |
| L_45(75)av | 983 |
| L_45(85)av | 198 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

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-81222128-28W 3000K

# LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
| Test:U:229.21V I:0.1190A P:26.288W PF:0.9635 Freq:49.99Hz Lamp Flux:1795.94x1 lm | | |
| NAME: HCP-81222128-28W 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 | 1956 | 1955 | 1956 | 1954 | 1954 | 1954 | 1952 | 1953 | 1956 | 1955 | 1956 | 1954 | 1954 | 1954 | 1952 | 1953 | | | |
| 5 | 1928 | 1928 | 1925 | 1924 | 1921 | 1920 | 1915 | 1914 | 1919 | 1922 | 1928 | 1926 | 1926 | 1922 | 1922 | 1921 | | | |
| 10 | 1857 | 1862 | 1850 | 1850 | 1849 | 1854 | 1848 | 1859 | 1868 | 1873 | 1875 | 1869 | 1868 | 1860 | 1855 | 1851 | | | |
| 15 | 1693 | 1701 | 1683 | 1683 | 1688 | 1703 | 1706 | 1717 | 1726 | 1725 | 1728 | 1712 | 1715 | 1704 | 1696 | 1684 | | | |
| 20 | 1457 | 1463 | 1449 | 1456 | 1452 | 1467 | 1468 | 1481 | 1487 | 1486 | 1494 | 1476 | 1486 | 1475 | 1470 | 1453 | | | |
| 25 | 1164 | 1167 | 1152 | 1165 | 1153 | 1174 | 1174 | 1183 | 1187 | 1182 | 1196 | 1184 | 1189 | 1177 | 1183 | 1172 | | | |
| 30 | 882 | 892 | 879 | 889 | 875 | 896 | 895 | 904 | 910 | 904 | 916 | 914 | 912 | 894 | 905 | 899 | | | |
| 35 | 686 | 691 | 687 | 693 | 689 | 689 | 689 | 694 | 695 | 699 | 709 | 707 | 709 | 696 | 697 | 686 | | | |
| 40 | 450 | 447 | 429 | 445 | 439 | 453 | 460 | 477 | 475 | 465 | 473 | 459 | 466 | 449 | 460 | 455 | | | |
| 45 | 134 | 138 | 144 | 134 | 131 | 143 | 140 | 149 | 151 | 147 | 156 | 152 | 155 | 144 | 145 | 137 | | | |
| 50 | 40.8 | 41.2 | 39.7 | 39.6 | 37.8 | 37.3 | 35.6 | 35.9 | 36.3 | 36.9 | 39.4 | 40.8 | 45.6 | 44.7 | 44.5 | 42.4 | | | |
| 55 | 24.6 | 24.9 | 25.0 | 24.9 | 23.9 | 23.5 | 23.4 | 23.6 | 23.6 | 23.2 | 24.3 | 24.4 | 26.0 | 25.9 | 25.9 | 25.1 | | | |
| 60 | 16.7 | 17.1 | 17.1 | 16.9 | 16.1 | 16.0 | 16.1 | 16.5 | 16.7 | 16.2 | 16.9 | 16.7 | 17.5 | 17.0 | 16.9 | 16.5 | | | |
| 65 | 10.7 | 11.0 | 11.2 | 10.9 | 10.1 | 10.3 | 10.4 | 10.7 | 10.7 | 10.5 | 11.0 | 10.7 | 10.7 | 10.7 | 10.9 | 10.7 | | | |
| 70 | 6.02 | 6.20 | 6.18 | 5.77 | 5.41 | 5.41 | 5.72 | 5.92 | 6.04 | 5.70 | 5.99 | 5.61 | 5.81 | 5.58 | 6.07 | 6.04 | | | |
| 75 | 2.86 | 3.03 | 2.59 | 2.07 | 1.86 | 1.90 | 2.24 | 2.50 | 2.51 | 2.18 | 2.22 | 1.96 | 1.97 | 1.96 | 2.63 | 2.82 | | | |
| 80 | 0.93 | 0.86 | 0.77 | 0.65 | 0.64 | 0.60 | 0.69 | 0.72 | 0.73 | 0.69 | 0.59 | 0.58 | 0.57 | 0.60 | 0.59 | 0.90 | | | |
| 85 | 0.31 | 0.24 | 0.19 | 0.12 | 0.16 | 0.12 | 0.18 | 0.16 | 0.25 | 0.20 | 0.15 | 0.17 | 0.15 | 0.18 | 0.14 | 0.27 | | | |
| 90 | 0.08 | 0.06 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
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