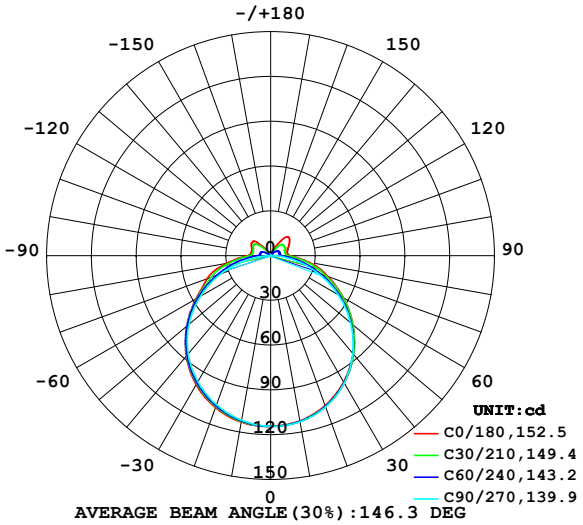
# LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |

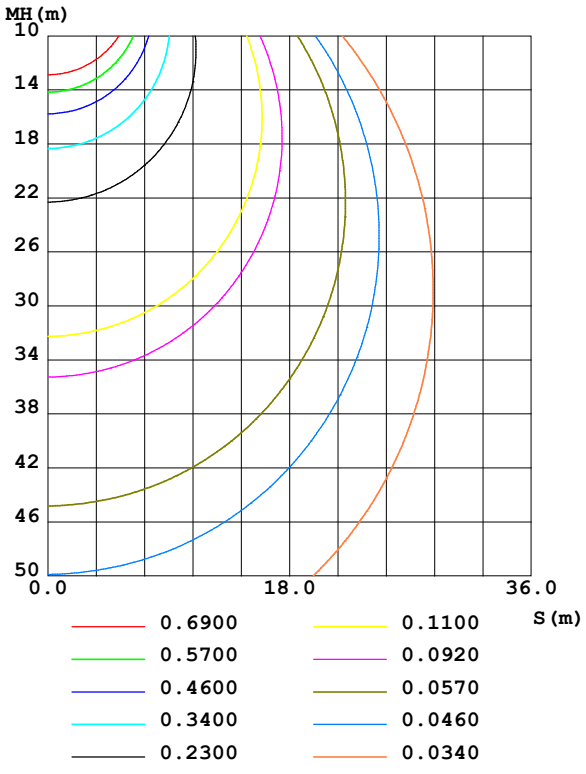
| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 83.18 lm/W | | | |
|---|---|---|---|---|---|
| MODEL | HCP-3466251 | Imax(cd) | 114.5 | S/MH(C0/180) | 1.30 |
| NOMINAL POWER(W) | 20 | LOR(%) | 100.0 | S/MH(C90/270) | 1.27 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 402.12 | η UP,DN(C0-180) | 5.0,44.9 |
| NOMINAL FLUX(lm) | 402.119 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 4.8,45.3 |
| LAMPS INSIDE | 1 | η up(%) | 9.8 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 24 | η down(%) | 90.2 | CIBSE SHR MAX | 1.50 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(30%):146.3 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 112.4 | 112.8 | 113.1 | 113.4 | 113.3 | 112.6 | 112.0 | 112.0 | 0- 10 | 10.84 | 10.84 | 2.7,2.7 |
| 20 | 106.8 | 107.5 | 107.9 | 108.6 | 108.3 | 107.3 | 106.2 | 106.4 | 10- 20 | 31.20 | 42.05 | 10.5,10.5 |
| 30 | 97.80 | 98.59 | 98.65 | 100.1 | 99.84 | 98.75 | 97.54 | 97.63 | 20- 30 | 47.70 | 89.74 | 22.3,22.3 |
| 40 | 85.96 | 86.28 | 85.76 | 88.03 | 87.95 | 87.27 | 85.92 | 85.97 | 30- 40 | 58.23 | 148.0 | 36.8,36.8 |
| 50 | 71.87 | 71.36 | 70.01 | 73.10 | 73.59 | 72.97 | 71.33 | 71.76 | 40- 50 | 61.49 | 209.5 | 52.1,52.1 |
| 60 | 56.30 | 54.78 | 52.32 | 56.41 | 57.76 | 56.54 | 54.16 | 55.54 | 50- 60 | 57.23 | 266.7 | 66.3,66.3 |
| 70 | 40.85 | 37.57 | 33.25 | 40.02 | 45.36 | 40.35 | 35.25 | 38.64 | 60- 70 | 46.71 | 313.4 | 77.9,77.9 |
| 80 | 26.41 | 21.95 | 14.60 | 24.67 | 29.97 | 24.69 | 13.71 | 22.71 | 70- 80 | 32.74 | 346.1 | 86.1,86.1 |
| 90 | 12.98 | 9.308 | 0.5189 | 11.23 | 15.62 | 11.40 | 0.1806 | 9.609 | 80- 90 | 16.64 | 362.8 | 90.2,90.2 |
| 100 | 11.42 | 8.096 | 0.0554 | 9.656 | 13.24 | 9.778 | 0.0408 | 7.953 | 90-100 | 9.109 | 371.9 | 92.5,92.5 |
| 110 | 12.27 | 8.240 | 0.0816 | 9.596 | 13.52 | 9.679 | 0.0524 | 8.097 | 100-110 | 8.442 | 380.3 | 94.6,94.6 |
| 120 | 14.30 | 8.528 | 0.1020 | 8.747 | 15.06 | 8.893 | 0.0699 | 8.297 | 110-120 | 8.162 | 388.5 | 96.6,96.6 |
| 130 | 16.75 | 7.816 | 0.1312 | 5.992 | 15.20 | 6.083 | 0.1078 | 7.101 | 120-130 | 7.011 | 395.5 | 98.4,98.4 |
| 140 | 16.41 | 5.461 | 0.1458 | 1.713 | 7.514 | 1.717 | 0.1166 | 3.867 | 130-140 | 4.592 | 400.1 | 99.5,99.5 |
| 150 | 7.283 | 2.329 | 0.1632 | 0.2141 | 0.2352 | 0.1924 | 0.1312 | 0.8111 | 140-150 | 1.558 | 401.7 | 99.9,99.9 |
| 160 | 1.678 | 0.8271 | 0.1807 | 0.2156 | 0.1660 | 0.1909 | 0.1603 | 0.2303 | 150-160 | 0.3594 | 402.0 | 100,100 |
| 170 | 0.3997 | 0.2519 | 0.1865 | 0.2127 | 0.1660 | 0.1909 | 0.1603 | 0.1821 | 160-170 | 0.0892 | 402.1 | 100,100 |
| 180 | 0.1835 | 0.1836 | 0.1865 | 0.1923 | 0.1660 | 0.1879 | 0.1661 | 0.1835 | 170-180 | 0.0187 | 402.1 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

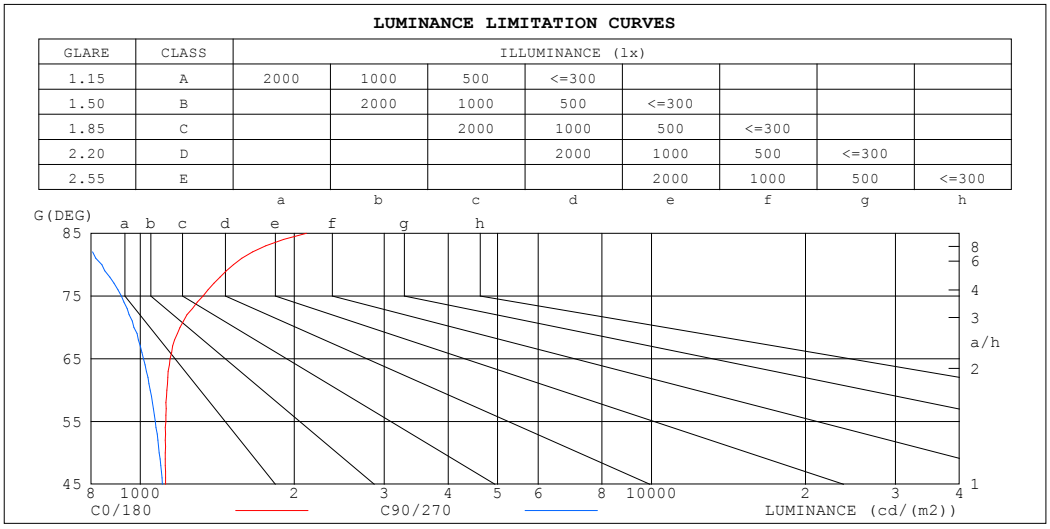
0 - 60 DEG Zonal Flux:266.69 %lum: 66.3%
0 - 60 DEG Zonal Flux:266.69 %lum: 66.3%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 17.4%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 25.1%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## LUMINANCE LIMITATION CURVES

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |




| LUMINANCE cd/(m2) | | |
|---|---|---|
| G(DEG) | C0/180 | C90/270 |
| 85 | 2114 | 761 |
| 80 | 1522 | 841 |
| 75 | 1326 | 918 |
| 70 | 1195 | 972 |
| 65 | 1144 | 1014 |
| 60 | 1127 | 1046 |
| 55 | 1121 | 1070 |
| 50 | 1119 | 1089 |
| 45 | 1119 | 1105 |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

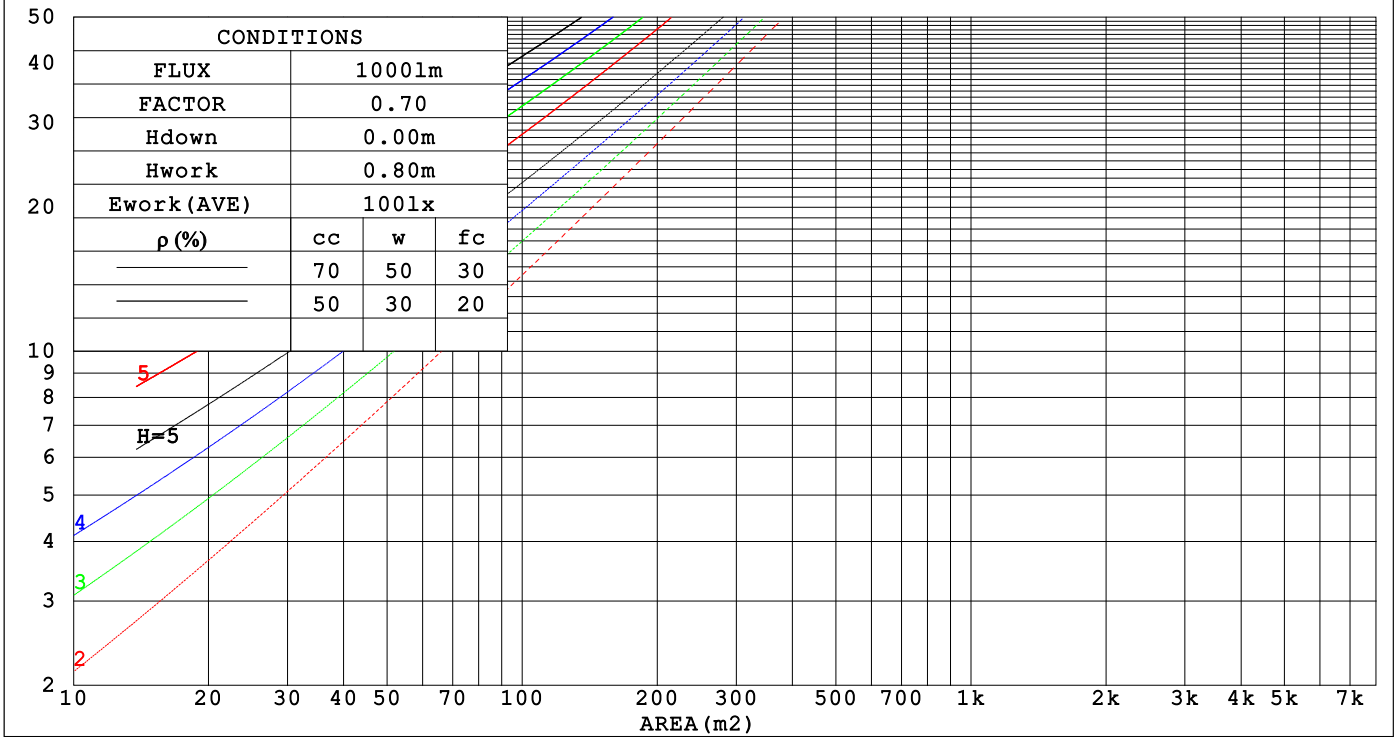
## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | 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 | 1.06 | 1.06 | 1.06 | .99 | .99 | .99 | .93 | .93 | .93 | .90 |
| 1.0 | .00 | .95 | .91 | .97 | .92 | .88 | .91 | .87 | .84 | .85 | .82 | .80 | .80 | .78 | .76 | .73 |
| 2.0 | .86 | .79 | .73 | .84 | .77 | .71 | .78 | .73 | .68 | .74 | .69 | .65 | .69 | .66 | .62 | .59 |
| 3.0 | .75 | .67 | .60 | .73 | .65 | .59 | .69 | .62 | .57 | .65 | .59 | .54 | .61 | .56 | .52 | .50 |
| 4.0 | .66 | .57 | .50 | .64 | .56 | .50 | .61 | .54 | .48 | .57 | .51 | .46 | .54 | .49 | .44 | .42 |
| 5.0 | .59 | .50 | .43 | .57 | .49 | .42 | .54 | .47 | .41 | .51 | .45 | .40 | .48 | .43 | .38 | .36 |
| 6.0 | .53 | .44 | .37 | .52 | .43 | .37 | .49 | .41 | .36 | .46 | .40 | .35 | .44 | .38 | .34 | .31 |
| 7.0 | .48 | .39 | .33 | .47 | .38 | .32 | .44 | .37 | .32 | .42 | .36 | .31 | .40 | .34 | .30 | .28 |
| 8.0 | .44 | .35 | .29 | .43 | .35 | .29 | .41 | .33 | .28 | .38 | .32 | .27 | .37 | .31 | .27 | .25 |
| 9.0 | .40 | .32 | .26 | .39 | .31 | .26 | .37 | .30 | .25 | .35 | .29 | .25 | .34 | .28 | .24 | .22 |
| 10.0 | .37 | .29 | .24 | .36 | .28 | .23 | .34 | .28 | .23 | .33 | .27 | .22 | .31 | .26 | .22 | .20 |

LAMPS

LUMINAIRE BUDGETARY DIAGRAM




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## WEC AND CCEC

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | 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 | .341 | .194 | .061 | .331 | .189 | .060 | .312 | .179 | .057 | .294 | .170 | .055 | .278 | .161 | .052 | |
| 2.0 | .309 | .169 | .052 | .300 | .165 | .051 | .283 | .157 | .049 | .267 | .150 | .047 | .252 | .143 | .045 | |
| 3.0 | .280 | .149 | .045 | .272 | .146 | .044 | .257 | .139 | .042 | .243 | .133 | .041 | .230 | .127 | .039 | |
| 4.0 | .256 | .133 | .039 | .249 | .130 | .038 | .235 | .125 | .037 | .222 | .119 | .036 | .210 | .114 | .035 | |
| 5.0 | .235 | .120 | .035 | .228 | .117 | .034 | .216 | .112 | .033 | .204 | .108 | .032 | .193 | .103 | .031 | |
| 6.0 | .217 | .109 | .031 | .211 | .106 | .031 | .199 | .102 | .030 | .189 | .098 | .029 | .179 | .094 | .028 | |
| 7.0 | .201 | .099 | .028 | .195 | .097 | .028 | .185 | .094 | .027 | .176 | .090 | .026 | .167 | .087 | .025 | |
| 8.0 | .187 | .091 | .026 | .182 | .090 | .025 | .173 | .086 | .025 | .164 | .083 | .024 | .156 | .080 | .023 | |
| 9.0 | .175 | .085 | .024 | .170 | .083 | .023 | .162 | .080 | .023 | .154 | .077 | .022 | .146 | .074 | .021 | |
| 10.0 | .164 | .079 | .022 | .160 | .077 | .022 | .152 | .075 | .021 | .145 | .072 | .020 | .138 | .069 | .020 | |

| 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 | .265 | .265 | .265 | .226 | .226 | .226 | .155 | .155 | .155 | .089 | .089 | .089 | .028 | .028 | .028 | |
| 1.0 | .258 | .231 | .207 | .220 | .198 | .178 | .151 | .136 | .123 | .087 | .079 | .072 | .028 | .025 | .023 | |
| 2.0 | .250 | .207 | .172 | .214 | .179 | .148 | .147 | .124 | .103 | .085 | .072 | .061 | .027 | .023 | .020 | |
| 3.0 | .243 | .190 | .149 | .208 | .164 | .129 | .143 | .114 | .091 | .082 | .067 | .053 | .026 | .022 | .017 | |
| 4.0 | .235 | .178 | .134 | .202 | .153 | .116 | .139 | .107 | .082 | .080 | .063 | .048 | .026 | .020 | .016 | |
| 5.0 | .227 | .167 | .123 | .195 | .145 | .107 | .135 | .101 | .076 | .078 | .059 | .045 | .025 | .019 | .015 | |
| 6.0 | .220 | .159 | .116 | .189 | .138 | .101 | .131 | .097 | .071 | .076 | .057 | .042 | .024 | .019 | .014 | |
| 7.0 | .213 | .153 | .110 | .183 | .132 | .096 | .127 | .093 | .068 | .074 | .055 | .040 | .024 | .018 | .013 | |
| 8.0 | .207 | .147 | .106 | .178 | .127 | .092 | .123 | .089 | .065 | .072 | .053 | .039 | .023 | .017 | .013 | |
| 9.0 | .201 | .142 | .102 | .173 | .123 | .089 | .120 | .087 | .063 | .070 | .051 | .038 | .023 | .017 | .013 | |
| 10.0 | .195 | .138 | .100 | .168 | .120 | .087 | .117 | .084 | .062 | .068 | .050 | .037 | .022 | .016 | .012 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## UGR(Unified Glare Rating) Table

| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
|---|---|---|
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | 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 | 15.9 | 17.3 | 16.3 | 17.7 | 18.1 | 15.6 | 17.0 | 16.0 | 17.4 | 17.8 |
| | 3H | 17.7 | 19.1 | 18.2 | 19.5 | 19.9 | 17.2 | 18.5 | 17.6 | 18.9 | 19.3 |
| | 4H | 18.7 | 20.0 | 19.2 | 20.4 | 20.9 | 17.8 | 19.0 | 18.3 | 19.5 | 19.9 |
| | 6H | 19.7 | 20.9 | 20.2 | 21.3 | 21.8 | 18.3 | 19.5 | 18.8 | 19.9 | 20.4 |
| | 8H | 20.1 | 21.3 | 20.6 | 21.7 | 22.2 | 18.4 | 19.6 | 18.9 | 20.0 | 20.5 |
| | 12H | 20.6 | 21.7 | 21.1 | 22.2 | 22.7 | 18.5 | 19.6 | 19.0 | 20.1 | 20.6 |
| 4H | 2H | 16.5 | 17.7 | 16.9 | 18.1 | 18.6 | 16.2 | 17.5 | 16.7 | 17.9 | 18.4 |
| | 3H | 18.6 | 19.7 | 19.1 | 20.1 | 20.6 | 18.0 | 19.1 | 18.5 | 19.6 | 20.1 |
| | 4H | 19.7 | 20.7 | 20.2 | 21.2 | 21.7 | 18.8 | 19.8 | 19.3 | 20.3 | 20.8 |
| | 6H | 20.8 | 21.7 | 21.4 | 22.2 | 22.8 | 19.5 | 20.3 | 20.0 | 20.9 | 21.4 |
| | 8H | 21.4 | 22.2 | 21.9 | 22.8 | 23.3 | 19.7 | 20.5 | 20.2 | 21.0 | 21.6 |
| | 12H | 21.9 | 22.7 | 22.5 | 23.3 | 23.9 | 19.8 | 20.6 | 20.4 | 21.2 | 21.8 |
| 8H | 4H | 20.0 | 20.8 | 20.6 | 21.4 | 22.0 | 19.3 | 20.1 | 19.8 | 20.6 | 21.2 |
| | 6H | 21.4 | 22.1 | 22.0 | 22.7 | 23.3 | 20.1 | 20.8 | 20.7 | 21.4 | 22.0 |
| | 8H | 22.1 | 22.7 | 22.7 | 23.3 | 24.0 | 20.5 | 21.1 | 21.1 | 21.7 | 22.3 |
| | 12H | 22.9 | 23.4 | 23.5 | 24.0 | 24.7 | 20.8 | 21.3 | 21.4 | 21.9 | 22.6 |
| 12H | 4H | 20.0 | 20.8 | 20.6 | 21.4 | 22.0 | 19.3 | 20.1 | 19.9 | 20.7 | 21.3 |
| | 6H | 21.5 | 22.1 | 22.1 | 22.7 | 23.4 | 20.3 | 20.9 | 20.9 | 21.5 | 22.2 |
| | 8H | 22.3 | 22.8 | 22.9 | 23.4 | 24.1 | 20.7 | 21.3 | 21.4 | 21.9 | 22.6 |

| Variations with the observer position at spacings(CIE Pub.117): | | |
|---|---|---|
| S = 1.0H | + 0.1 / - 0.1 | + 0.1 / - 0.2 |
| 1.5H | + 0.2 / - 0.3 | + 0.2 / - 0.3 |
| 2.0H | + 0.1 / - 0.3 | + 0.1 / - 0.3 |

CIE Pub.117, 402.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## UTILIZATION FACTORS TABLE

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |

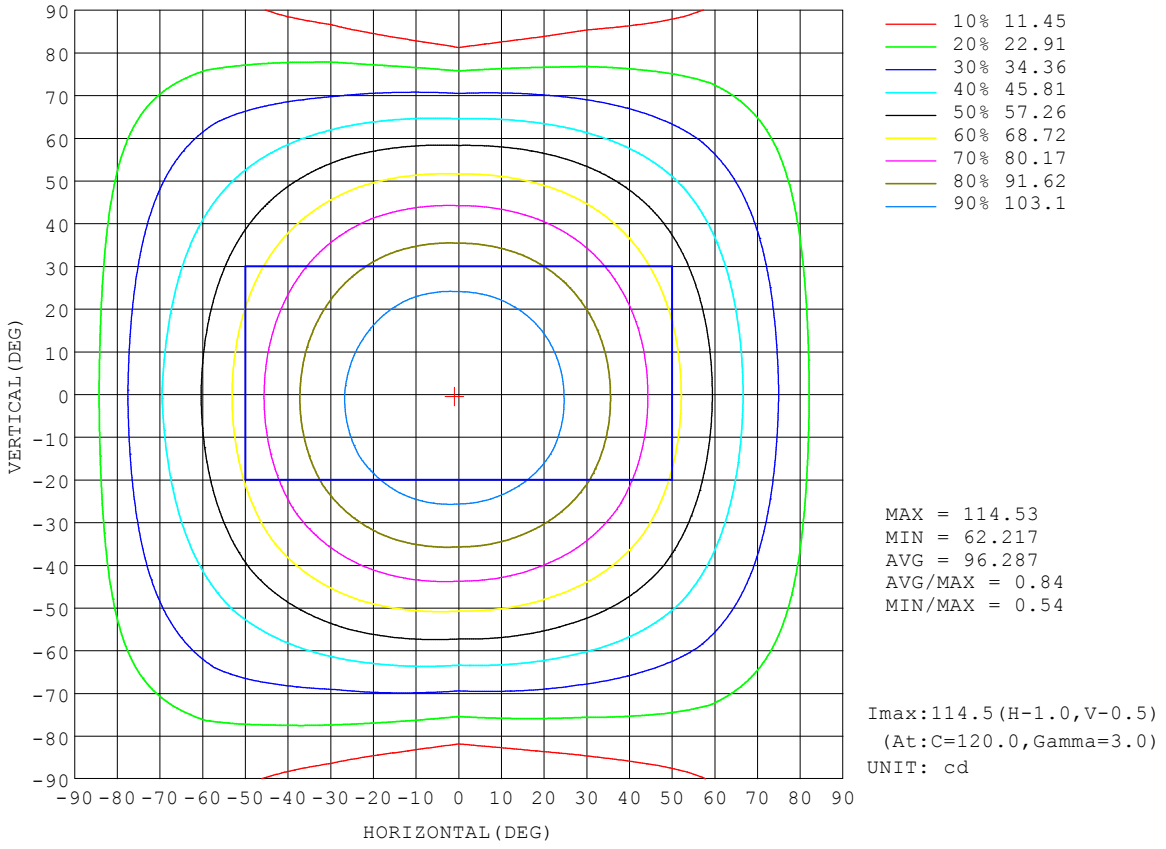
| REFLECTANCE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 53 | 41 | 34 | 52 | 40 | 33 | 50 | 40 | 33 | 27 |
| 0.80 | 62 | 50 | 42 | 61 | 50 | 42 | 59 | 48 | 41 | 34 |
| 1.00 | 70 | 59 | 51 | 69 | 58 | 50 | 66 | 58 | 49 | 41 |
| 1.25 | 77 | 66 | 58 | 76 | 65 | 58 | 72 | 63 | 56 | 48 |
| 1.50 | 83 | 72 | 64 | 80 | 70 | 63 | 76 | 68 | 61 | 52 |
| 2.00 | 90 | 80 | 73 | 87 | 78 | 71 | 82 | 75 | 69 | 59 |
| 2.50 | 94 | 85 | 78 | 91 | 83 | 77 | 86 | 79 | 74 | 63 |
| 3.00 | 97 | 89 | 83 | 94 | 87 | 81 | 89 | 83 | 78 | 67 |
| 4.00 | 102 | 95 | 89 | 98 | 92 | 87 | 93 | 88 | 84 | 72 |
| 5.00 | 104 | 99 | 94 | 101 | 96 | 91 | 95 | 91 | 87 | 75 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | Suspended | | | | | SHRNOM = 1.25 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |




MAX = 114.53
MIN = 62.217
AVG = 96.287
AVG/MAX = 0.84
MIN/MAX = 0.54

Imax:114.5(H-1.0,V-0.5)
(At:C=120.0,Gamma=3.0)
UNIT: cd

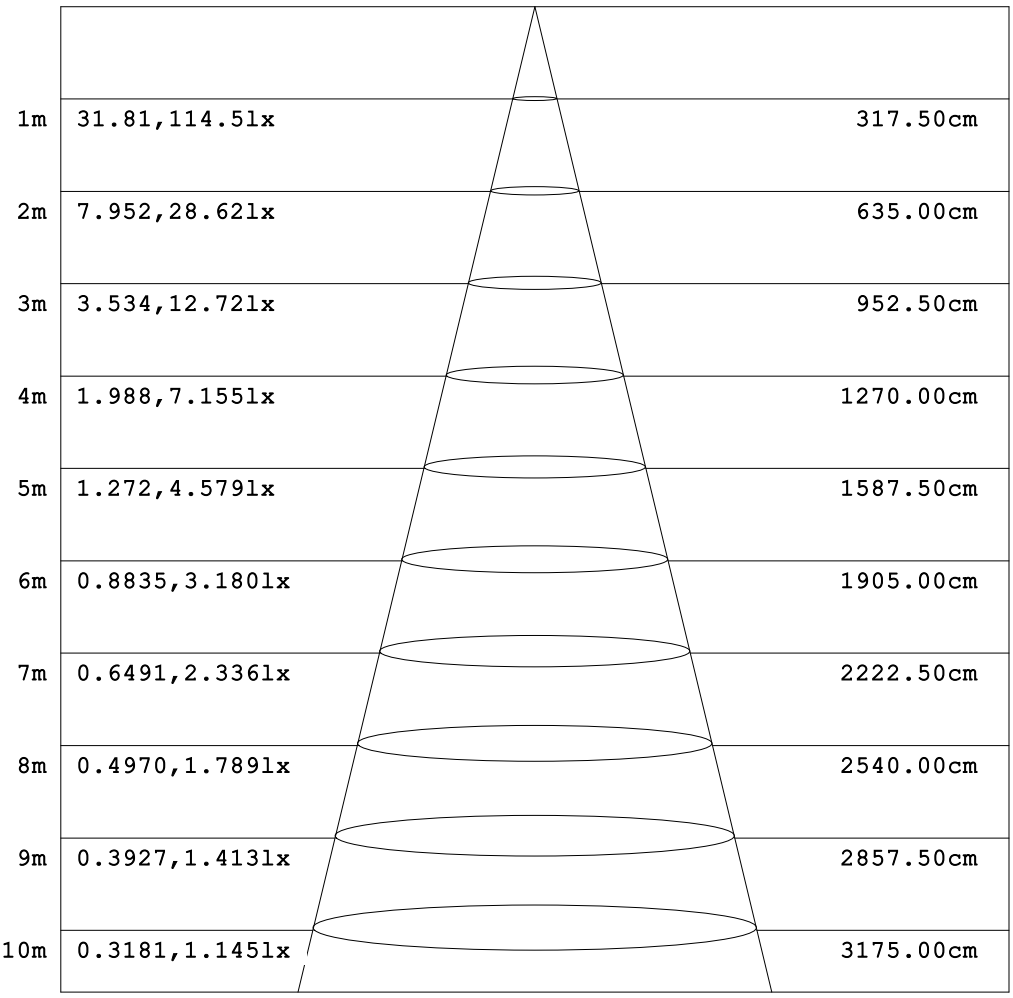
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## AAI Figure

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |

Flux out:255.9 lm



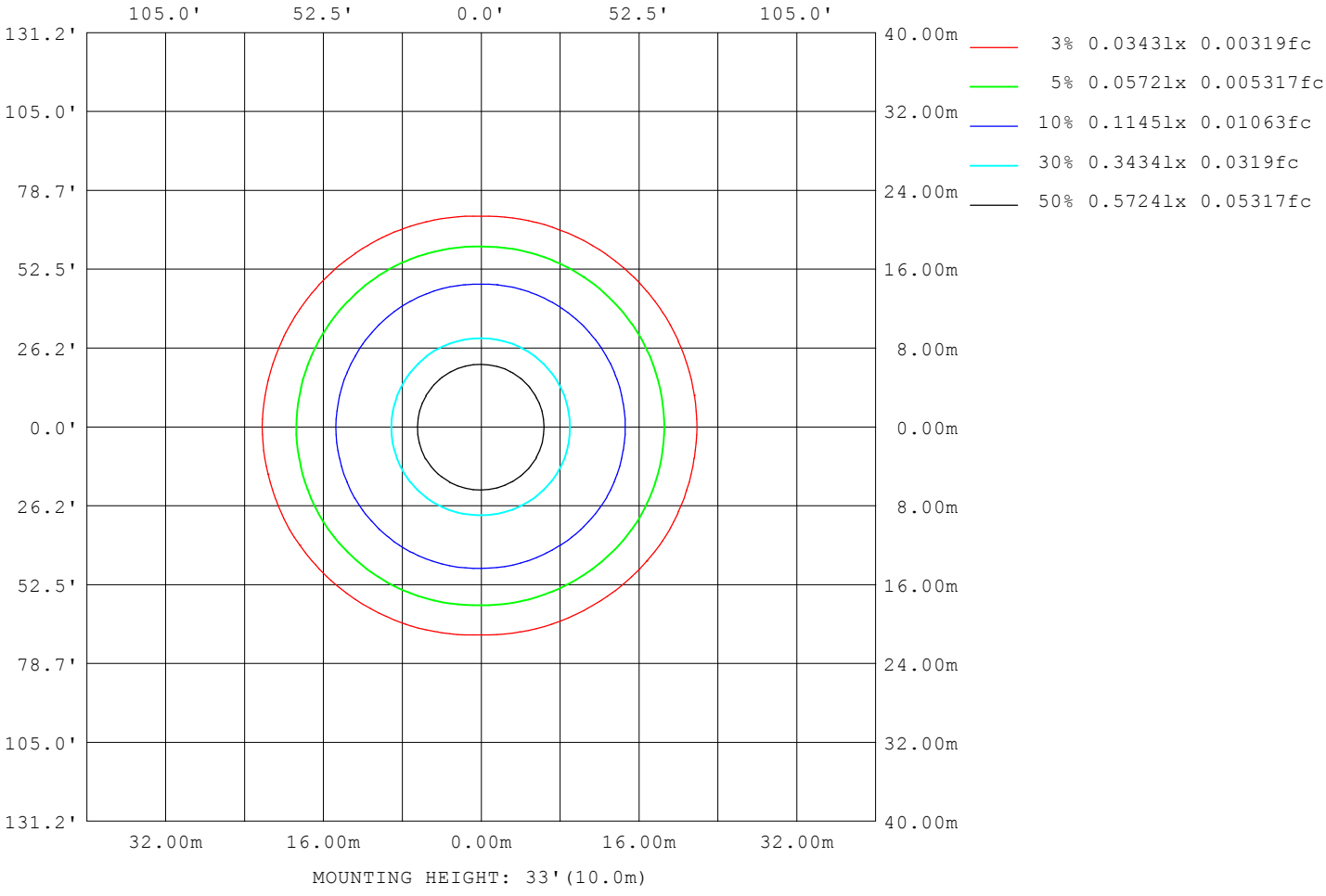

**Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.**

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## ISOLUX DIAGRAM

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## LED Avg.L Report

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |

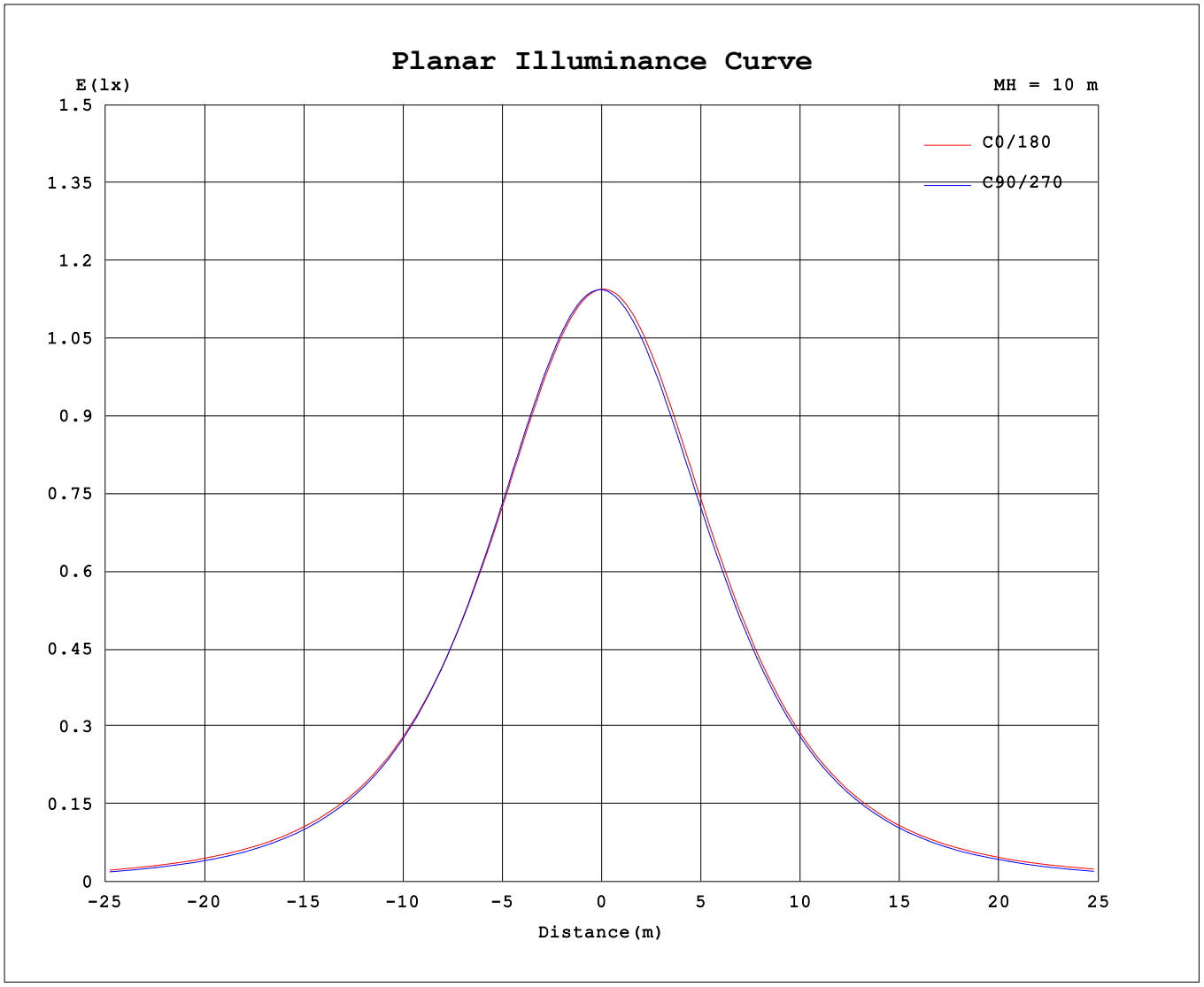
| AvgL | cd/m2 |
|---|---|
| L_0~180(65)av | 1169 |
| L_0~180(75)av | 1412 |
| L_0~180(85)av | 2303 |
| L_90~270(65)av | 1039 |
| L_90~270(75)av | 933 |
| L_90~270(85)av | 688 |
| L_45(65)av | 1121 |
| L_45(75)av | 1223 |
| L_45(85)av | 1853 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
| NAME: HCP-3466250 W | TYPE: 2216 W | WEIGHT: |
| SPEC.: | DIM.: 1*0.012 | SERIAL No.: |
| MFR.: HAVIT COMMERCIAL | SUR.: | Shielding Angle: |

Table--1 UNIT: cd

| γ (DEG) \ C(DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 |
| 5 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 114 |
| 10 | 112 | 113 | 113 | 113 | 113 | 113 | 113 | 113 | 112 | 112 | 112 | 112 |
| 15 | 110 | 111 | 111 | 111 | 111 | 112 | 111 | 111 | 110 | 110 | 110 | 110 |
| 20 | 107 | 107 | 108 | 108 | 109 | 109 | 108 | 108 | 107 | 106 | 106 | 107 |
| 25 | 103 | 103 | 104 | 104 | 105 | 105 | 105 | 104 | 103 | 102 | 102 | 102 |
| 30 | 97.8 | 98.7 | 98.5 | 98.7 | 99.8 | 100 | 99.8 | 99.0 | 98.5 | 97.5 | 97.6 | 97.6 |
| 35 | 92.3 | 93.0 | 92.7 | 92.7 | 94.1 | 94.9 | 94.3 | 93.7 | 93.1 | 92.1 | 92.2 | 92.1 |
| 40 | 86.0 | 86.7 | 85.9 | 85.8 | 87.5 | 88.6 | 88.0 | 87.4 | 87.1 | 85.9 | 86.0 | 85.9 |
| 45 | 79.1 | 79.6 | 78.5 | 78.1 | 80.2 | 81.4 | 81.0 | 80.5 | 80.3 | 79.0 | 79.2 | 79.1 |
| 50 | 71.9 | 72.1 | 70.6 | 70.0 | 72.4 | 73.8 | 73.6 | 73.0 | 72.9 | 71.3 | 71.8 | 71.8 |
| 55 | 64.3 | 64.2 | 62.3 | 61.4 | 64.1 | 65.8 | 65.7 | 65.1 | 64.8 | 63.0 | 63.7 | 64.0 |
| 60 | 56.3 | 56.0 | 53.6 | 52.3 | 55.3 | 57.5 | 57.8 | 56.9 | 56.2 | 54.2 | 55.1 | 55.9 |
| 65 | 48.3 | 47.6 | 44.7 | 42.9 | 46.3 | 49.4 | 50.5 | 49.0 | 47.3 | 44.9 | 46.4 | 47.8 |
| 70 | 40.8 | 39.4 | 35.7 | 33.2 | 37.5 | 42.6 | 45.4 | 42.3 | 38.4 | 35.3 | 37.5 | 39.8 |
| 75 | 34.3 | 32.2 | 27.1 | 23.8 | 29.3 | 36.4 | 38.8 | 35.9 | 29.9 | 24.5 | 28.7 | 32.5 |
| 80 | 26.4 | 24.9 | 19.0 | 14.6 | 21.4 | 28.0 | 30.0 | 27.5 | 21.9 | 13.7 | 20.4 | 25.0 |
| 85 | 18.4 | 17.2 | 11.9 | 6.63 | 13.8 | 20.0 | 21.7 | 19.6 | 14.1 | 5.35 | 12.7 | 17.2 |
| 90 | 13.0 | 11.8 | 6.80 | 0.52 | 8.39 | 14.1 | 15.6 | 14.0 | 8.74 | 0.18 | 7.37 | 11.9 |
| 95 | 11.6 | 10.4 | 6.09 | 0.04 | 7.45 | 12.4 | 13.7 | 12.5 | 7.66 | 0.04 | 6.38 | 10.6 |
| 100 | 11.4 | 10.0 | 6.16 | 0.06 | 7.24 | 12.1 | 13.2 | 12.2 | 7.36 | 0.04 | 5.87 | 10.0 |
| 105 | 11.6 | 10.3 | 6.07 | 0.07 | 7.14 | 12.0 | 13.2 | 12.1 | 7.20 | 0.04 | 5.92 | 10.1 |
| 110 | 12.3 | 10.5 | 6.01 | 0.08 | 6.81 | 12.4 | 13.5 | 12.4 | 6.94 | 0.05 | 5.88 | 10.3 |
| 115 | 13.2 | 11.3 | 5.96 | 0.09 | 5.85 | 13.0 | 14.2 | 13.0 | 6.10 | 0.06 | 5.92 | 11.1 |
| 120 | 14.3 | 11.1 | 5.93 | 0.10 | 4.00 | 13.5 | 15.1 | 13.5 | 4.33 | 0.07 | 5.76 | 10.8 |
| 125 | 15.6 | 11.0 | 5.42 | 0.11 | 1.77 | 13.5 | 15.3 | 13.5 | 2.11 | 0.08 | 5.00 | 10.9 |
| 130 | 16.7 | 11.2 | 4.43 | 0.13 | 0.29 | 11.7 | 15.2 | 11.8 | 0.36 | 0.11 | 3.27 | 10.9 |
| 135 | 17.3 | 10.7 | 3.31 | 0.14 | 0.19 | 8.03 | 12.7 | 8.23 | 0.17 | 0.12 | 1.49 | 10.1 |
| 140 | 16.4 | 8.61 | 2.31 | 0.15 | 0.19 | 3.24 | 7.51 | 3.26 | 0.17 | 0.12 | 0.46 | 7.27 |
| 145 | 12.2 | 5.74 | 1.56 | 0.15 | 0.19 | 0.43 | 2.15 | 0.48 | 0.18 | 0.13 | 0.18 | 3.64 |
| 150 | 7.28 | 3.62 | 1.04 | 0.16 | 0.20 | 0.22 | 0.24 | 0.20 | 0.18 | 0.13 | 0.18 | 1.44 |
| 155 | 3.82 | 2.16 | 0.66 | 0.17 | 0.20 | 0.22 | 0.17 | 0.20 | 0.18 | 0.15 | 0.18 | 0.39 |
| 160 | 1.68 | 1.23 | 0.43 | 0.18 | 0.21 | 0.22 | 0.17 | 0.20 | 0.19 | 0.16 | 0.24 | 0.22 |
| 165 | 0.85 | 0.64 | 0.28 | 0.18 | 0.21 | 0.22 | 0.17 | 0.20 | 0.19 | 0.16 | 0.23 | 0.20 |
| 170 | 0.40 | 0.30 | 0.20 | 0.19 | 0.21 | 0.22 | 0.17 | 0.20 | 0.19 | 0.16 | 0.17 | 0.19 |
| 175 | 0.20 | 0.18 | 0.19 | 0.19 | 0.20 | 0.21 | 0.17 | 0.20 | 0.19 | 0.16 | 0.17 | 0.20 |
| 180 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.17 | 0.19 | 0.19 | 0.17 | 0.17 | 0.20 |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
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Operators:zhuo
Test Date:2022-05-24

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
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