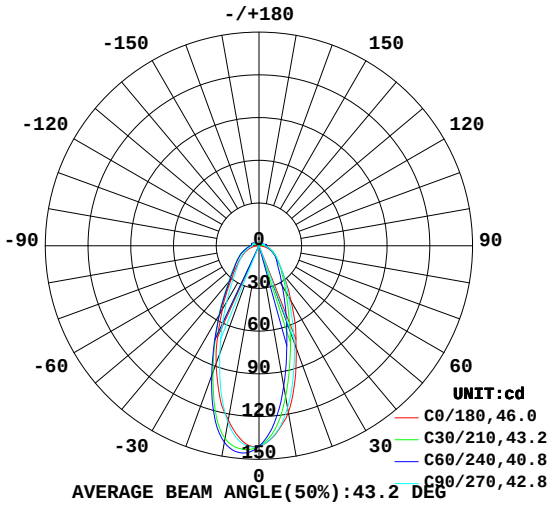
# LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |

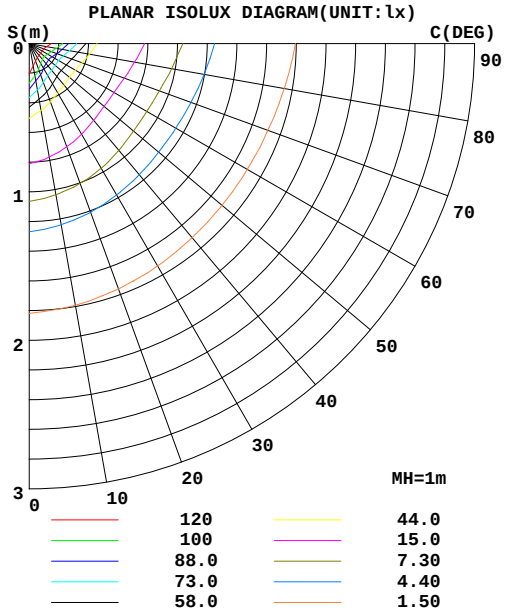
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 84.08 lm/W | |
|---|---|---|---|---|---|
| MODEL | HCP-3564080 GREEN | Imax(cd) | 146.0 | S/MH(C0/180) | 0.67 |
| NOMINAL POWER(W) | 3 | LOR(%) | 100.0 | S/MH(C90/270) | 0.70 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 162.35 | η UP,DN(C0-180) | 3.7,42.7 |
| NOMINAL FLUX(lm) | 162.346 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 4.7,48.9 |
| LAMPS INSIDE | 1 | η up(%) | 8.4 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 24 | η down(%) | 91.6 | CIBSE SHR MAX | 0.75 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):43.2 DEG

PLANAR ISOLUX DIAGRAM(UNIT:lx)




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [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 | 118.9 | 104.0 | 115.6 | 117.9 | 124.2 | 138.8 | 125.9 | 125.1 | 0- 10 | 12.49 | 12.49 | 7.7,7.7 |
| 20 | 76.46 | 60.31 | 72.28 | 78.99 | 88.10 | 95.90 | 80.66 | 81.30 | 10- 20 | 27.87 | 40.36 | 24.9,24.9 |
| 30 | 45.02 | 35.18 | 41.76 | 48.40 | 51.61 | 55.79 | 45.45 | 46.10 | 20- 30 | 28.00 | 68.36 | 42.1,42.1 |
| 40 | 26.85 | 23.20 | 26.93 | 29.70 | 29.89 | 32.74 | 26.82 | 27.69 | 30- 40 | 22.55 | 90.91 | 56,56 |
| 50 | 17.43 | 17.09 | 18.18 | 19.67 | 19.45 | 22.22 | 18.48 | 18.91 | 40- 50 | 17.83 | 108.7 | 67,67 |
| 60 | 12.38 | 12.79 | 13.02 | 14.03 | 13.23 | 16.56 | 13.94 | 13.84 | 50- 60 | 14.62 | 123.4 | 76,76 |
| 70 | 7.891 | 9.098 | 8.943 | 9.547 | 8.513 | 12.08 | 9.790 | 9.705 | 60- 70 | 11.56 | 134.9 | 83.1,83.1 |
| 80 | 3.405 | 6.298 | 6.096 | 6.540 | 3.886 | 8.325 | 6.680 | 6.719 | 70- 80 | 8.284 | 143.2 | 88.2,88.2 |
| 90 | 0.3273 | 4.443 | 4.574 | 4.905 | 0.4913 | 5.653 | 4.889 | 4.974 | 80- 90 | 5.479 | 148.7 | 91.6,91.6 |
| 100 | 0.0830 | 4.082 | 4.044 | 4.144 | 0.2005 | 5.088 | 4.451 | 4.431 | 90-100 | 4.029 | 152.7 | 94.1,94.1 |
| 110 | 0.0734 | 2.707 | 3.662 | 3.710 | 0.1465 | 4.588 | 4.462 | 4.382 | 100-110 | 3.601 | 156.3 | 96.3,96.3 |
| 120 | 0.1212 | 1.578 | 2.793 | 3.080 | 0.0956 | 2.903 | 3.477 | 3.420 | 110-120 | 2.716 | 159.0 | 98,98 |
| 130 | 0.1897 | 0.6965 | 1.792 | 1.932 | 0.1546 | 1.517 | 2.186 | 2.188 | 120-130 | 1.658 | 160.7 | 99,99 |
| 140 | 0.2703 | 0.4221 | 0.8417 | 0.9877 | 0.2163 | 0.7026 | 1.146 | 1.177 | 130-140 | 0.8209 | 161.5 | 99.5,99.5 |
| 150 | 0.3857 | 0.5114 | 0.4864 | 0.5841 | 0.3179 | 0.4273 | 0.5629 | 0.6093 | 140-150 | 0.3774 | 161.9 | 99.7,99.7 |
| 160 | 0.4781 | 0.6584 | 0.5520 | 0.5620 | 0.4264 | 0.5344 | 0.5243 | 0.5359 | 150-160 | 0.2336 | 162.1 | 99.9,99.9 |
| 170 | 0.5452 | 0.6638 | 0.6148 | 0.6056 | 0.5268 | 0.6936 | 0.6005 | 0.5881 | 160-170 | 0.1647 | 162.3 | 100,100 |
| 180 | 0.6445 | 0.7618 | 0.6158 | 0.6087 | 0.6445 | 0.7634 | 0.6158 | 0.6117 | 170-180 | 0.0598 | 162.3 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 100.3 lm

%lum = 61.8%
%lamp = 61.8%

Conical surface Flux(120deg): 123.36 lm

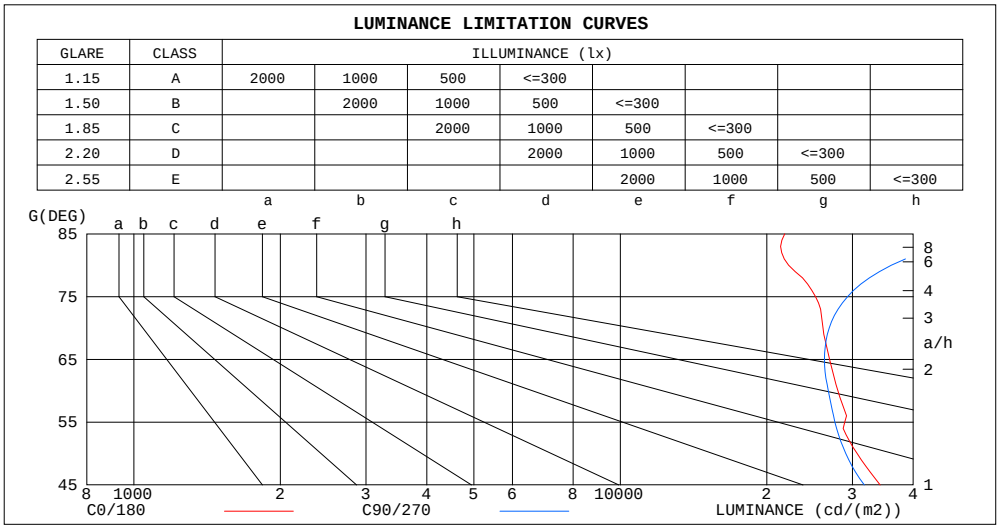
%lum = 76.0%
%lamp = 76.0%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# LUMINANCE LIMITATION CURVES

| | | |
|---|---|---|
| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |




| LUMINANCE cd/(m2) | | |
|---|---|---|
| G(DEG) | C0/180 | C90/270 |
| 85 | 21776 | 60076 |
| 80 | 22170 | 36078 |
| 75 | 25187 | 29322 |
| 70 | 26090 | 26873 |
| 65 | 26930 | 26277 |
| 60 | 27999 | 26766 |
| 55 | 28942 | 27598 |
| 50 | 30665 | 29072 |
| 45 | 34206 | 31739 |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

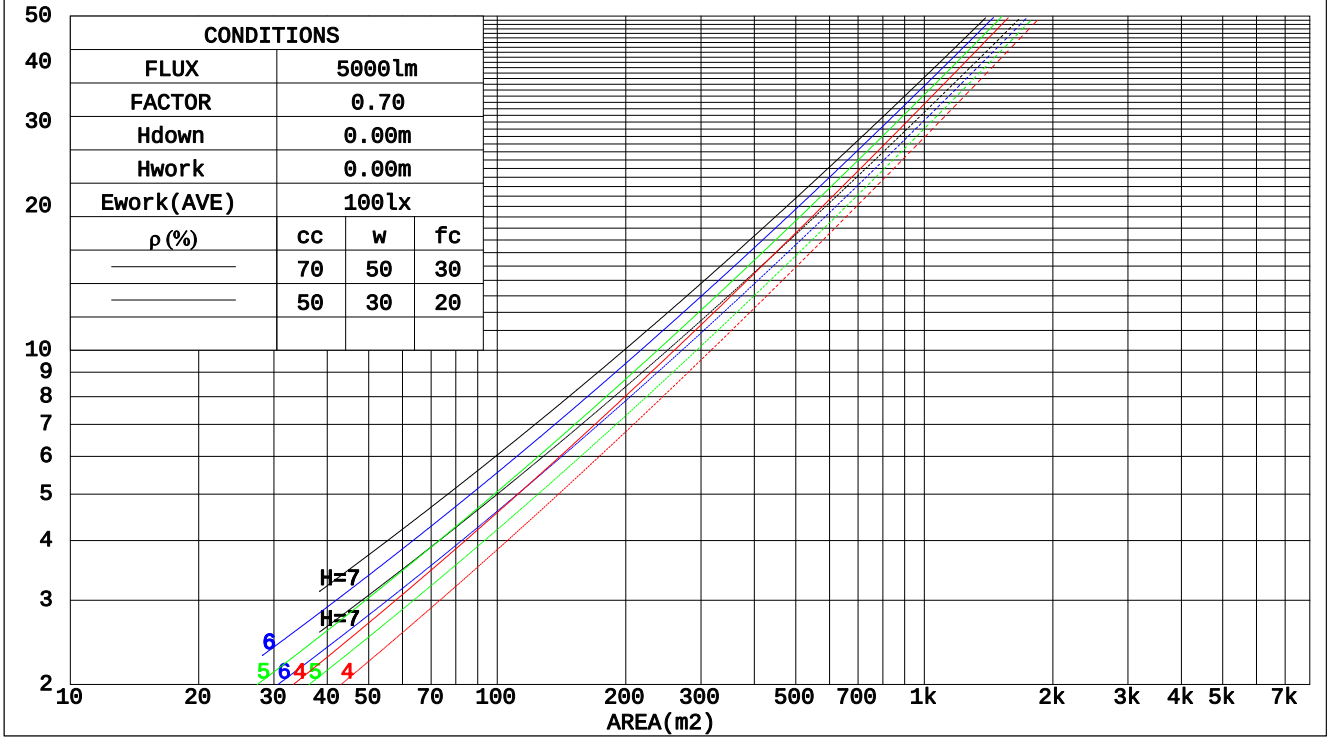
# CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---|---|
| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | 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 | 1.00 | 1.00 | 1.00 | .94 | .94 | .94 | .92 |
| 1.0 | 1.03 | .99 | .96 | 1.00 | .97 | .93 | .94 | .91 | .89 | .89 | .87 | .85 | .84 | .82 | .81 | .78 |
| 2.0 | .92 | .86 | .81 | .89 | .84 | .79 | .85 | .80 | .76 | .80 | .77 | .73 | .76 | .73 | .70 | .68 |
| 3.0 | .83 | .76 | .70 | .81 | .74 | .69 | .77 | .71 | .67 | .73 | .68 | .65 | .69 | .66 | .62 | .60 |
| 4.0 | .75 | .68 | .62 | .73 | .66 | .61 | .70 | .64 | .59 | .67 | .62 | .58 | .64 | .60 | .56 | .54 |
| 5.0 | .69 | .61 | .55 | .67 | .60 | .55 | .64 | .58 | .53 | .62 | .56 | .52 | .59 | .54 | .51 | .49 |
| 6.0 | .63 | .56 | .50 | .62 | .55 | .49 | .59 | .53 | .48 | .57 | .52 | .47 | .55 | .50 | .46 | .44 |
| 7.0 | .59 | .51 | .46 | .57 | .50 | .45 | .55 | .49 | .44 | .53 | .48 | .43 | .51 | .46 | .43 | .41 |
| 8.0 | .54 | .47 | .42 | .53 | .46 | .42 | .52 | .45 | .41 | .50 | .44 | .40 | .48 | .43 | .39 | .38 |
| 9.0 | .51 | .44 | .39 | .50 | .43 | .39 | .48 | .42 | .38 | .47 | .41 | .37 | .45 | .40 | .37 | .35 |
| 10.0 | .48 | .41 | .36 | .47 | .40 | .36 | .45 | .39 | .35 | .44 | .39 | .35 | .43 | .38 | .34 | .33 |

LAMPS

LUMINAIRE BUDGETARY DIAGRAM




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# WEC AND CCEC

| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
|---|---|---|
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | 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 | .284 | .162 | .051 | .275 | .157 | .050 | .257 | .147 | .047 | .240 | .139 | .045 | .225 | .131 | .042 | |
| 2.0 | .257 | .141 | .043 | .248 | .137 | .042 | .233 | .129 | .040 | .218 | .122 | .038 | .205 | .116 | .036 | |
| 3.0 | .234 | .125 | .037 | .227 | .122 | .037 | .213 | .115 | .035 | .200 | .110 | .034 | .188 | .104 | .032 | |
| 4.0 | .215 | .112 | .033 | .209 | .109 | .032 | .196 | .104 | .031 | .185 | .099 | .030 | .174 | .094 | .029 | |
| 5.0 | .199 | .101 | .029 | .193 | .099 | .029 | .182 | .095 | .028 | .171 | .090 | .027 | .162 | .086 | .026 | |
| 6.0 | .185 | .093 | .027 | .180 | .091 | .026 | .169 | .087 | .025 | .160 | .083 | .024 | .151 | .080 | .024 | |
| 7.0 | .173 | .085 | .024 | .168 | .084 | .024 | .159 | .080 | .023 | .150 | .077 | .022 | .142 | .074 | .022 | |
| 8.0 | .162 | .079 | .022 | .157 | .078 | .022 | .149 | .074 | .021 | .141 | .072 | .021 | .134 | .069 | .020 | |
| 9.0 | .152 | .074 | .021 | .148 | .072 | .020 | .141 | .070 | .020 | .133 | .067 | .019 | .127 | .064 | .019 | |
| 10.0 | .144 | .069 | .019 | .140 | .068 | .019 | .133 | .065 | .018 | .126 | .063 | .018 | .120 | .060 | .017 | |

| 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 | .255 | .255 | .255 | .218 | .218 | .218 | .149 | .149 | .149 | .085 | .085 | .085 | .027 | .027 | .027 | |
| 1.0 | .243 | .221 | .201 | .208 | .190 | .173 | .142 | .130 | .120 | .082 | .076 | .070 | .026 | .024 | .023 | |
| 2.0 | .233 | .197 | .167 | .199 | .170 | .145 | .137 | .117 | .101 | .079 | .068 | .059 | .025 | .022 | .019 | |
| 3.0 | .223 | .179 | .145 | .191 | .155 | .125 | .131 | .108 | .088 | .076 | .063 | .052 | .024 | .020 | .017 | |
| 4.0 | .214 | .166 | .129 | .184 | .143 | .112 | .126 | .100 | .079 | .073 | .059 | .047 | .024 | .019 | .015 | |
| 5.0 | .206 | .155 | .118 | .177 | .134 | .102 | .122 | .094 | .072 | .071 | .055 | .043 | .023 | .018 | .014 | |
| 6.0 | .199 | .147 | .109 | .171 | .127 | .095 | .118 | .089 | .067 | .068 | .052 | .040 | .022 | .017 | .013 | |
| 7.0 | .192 | .140 | .103 | .165 | .121 | .090 | .114 | .085 | .064 | .066 | .050 | .038 | .021 | .016 | .013 | |
| 8.0 | .186 | .134 | .098 | .160 | .116 | .086 | .111 | .081 | .061 | .064 | .048 | .036 | .021 | .016 | .012 | |
| 9.0 | .180 | .129 | .094 | .155 | .112 | .082 | .107 | .079 | .058 | .062 | .046 | .035 | .020 | .015 | .012 | |
| 10.0 | .174 | .124 | .091 | .150 | .108 | .080 | .104 | .076 | .057 | .061 | .045 | .034 | .020 | .015 | .011 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# UGR(Unified Glare Rating) Table

| | | |
|---|---|---|
| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | 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 | 22.1 | 23.3 | 22.4 | 23.6 | 23.9 | 21.6 | 22.8 | 22.0 | 23.1 | 23.5 |
| 3H | 23.7 | 24.8 | 24.1 | 25.2 | 25.6 | 23.4 | 24.5 | 23.8 | 24.8 | 25.2 |
| 4H | 24.5 | 25.5 | 24.9 | 25.9 | 26.3 | 24.3 | 25.4 | 24.7 | 25.7 | 26.1 |
| 6H | 25.0 | 26.0 | 25.5 | 26.4 | 26.9 | 25.3 | 26.3 | 25.8 | 26.7 | 27.2 |
| 8H | 25.2 | 26.2 | 25.7 | 26.6 | 27.0 | 25.9 | 26.9 | 26.4 | 27.3 | 27.7 |
| 12H | 25.4 | 26.3 | 25.8 | 26.7 | 27.2 | 26.6 | 27.5 | 27.0 | 27.9 | 28.4 |
| 4H 2H | 22.5 | 23.6 | 22.9 | 23.9 | 24.4 | 22.1 | 23.2 | 22.6 | 23.6 | 24.0 |
| 3H | 24.4 | 25.3 | 24.9 | 25.8 | 26.2 | 24.1 | 25.0 | 24.5 | 25.4 | 25.9 |
| 4H | 25.4 | 26.2 | 25.9 | 26.7 | 27.2 | 25.2 | 26.0 | 25.7 | 26.5 | 27.0 |
| 6H | 26.1 | 26.9 | 26.7 | 27.4 | 27.9 | 26.4 | 27.2 | 26.9 | 27.6 | 28.2 |
| 8H | 26.5 | 27.2 | 27.0 | 27.7 | 28.2 | 27.1 | 27.8 | 27.6 | 28.3 | 28.9 |
| 12H | 26.7 | 27.4 | 27.3 | 27.9 | 28.5 | 27.9 | 28.6 | 28.5 | 29.1 | 29.7 |
| 8H 4H | 25.7 | 26.4 | 26.3 | 26.9 | 27.5 | 25.6 | 26.3 | 26.1 | 26.8 | 27.3 |
| 6H | 26.8 | 27.4 | 27.4 | 28.0 | 28.6 | 27.0 | 27.6 | 27.6 | 28.2 | 28.8 |
| 8H | 27.4 | 27.9 | 27.9 | 28.5 | 29.1 | 27.9 | 28.4 | 28.5 | 29.0 | 29.6 |
| 12H | 27.8 | 28.3 | 28.4 | 28.9 | 29.5 | 28.9 | 29.4 | 29.5 | 30.0 | 30.6 |
| 12H 4H | 25.8 | 26.4 | 26.3 | 27.0 | 27.5 | 25.6 | 26.3 | 26.2 | 26.8 | 27.4 |
| 6H | 27.0 | 27.6 | 27.6 | 28.1 | 28.7 | 27.2 | 27.7 | 27.8 | 28.3 | 28.9 |
| 8H | 27.7 | 28.1 | 28.3 | 28.7 | 29.4 | 28.2 | 28.6 | 28.8 | 29.2 | 29.8 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.2 | | | | |
| 2.0H | + 0.1 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 162.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -6.3)
Area: 0.001 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# UTILIZATION FACTORS TABLE

| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
|---|---|---|
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |

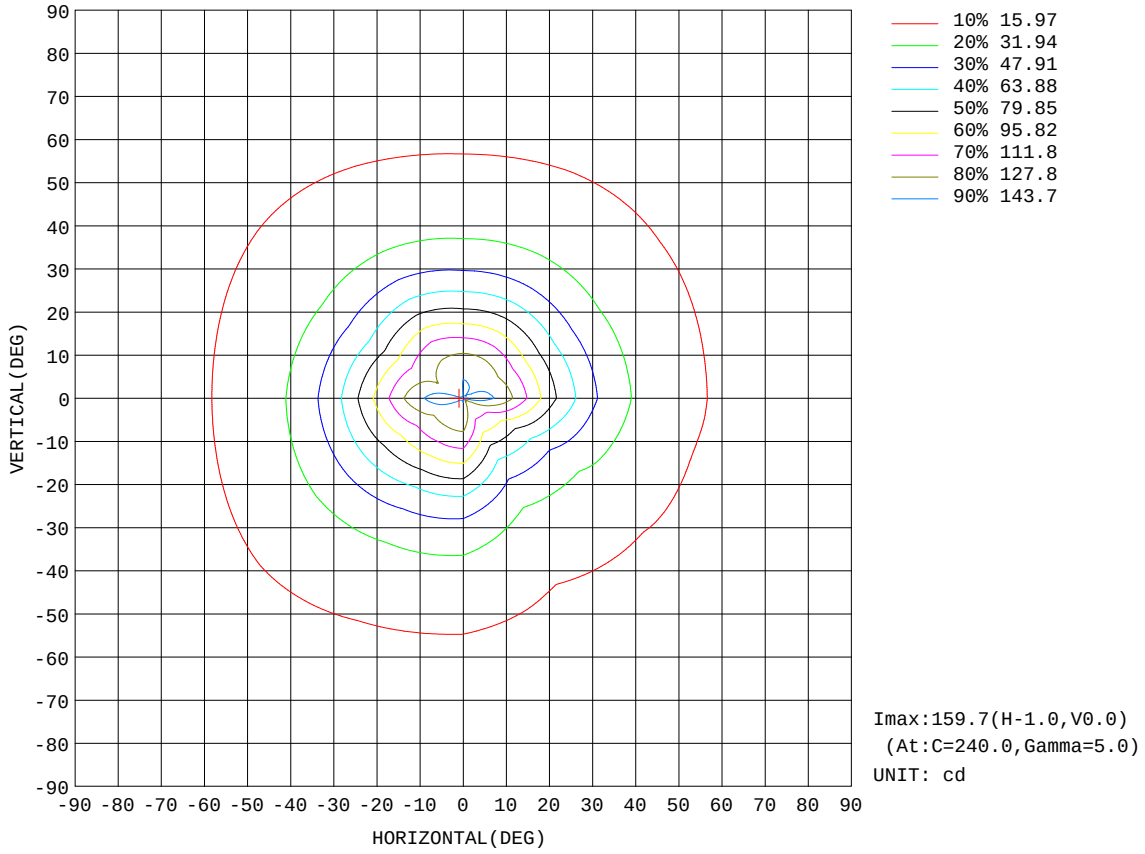
| REFLECTANCE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 64 | 54 | 48 | 64 | 54 | 48 | 62 | 53 | 48 | 43 |
| 0.80 | 73 | 63 | 57 | 72 | 63 | 57 | 70 | 62 | 56 | 50 |
| 1.00 | 80 | 70 | 64 | 78 | 69 | 63 | 76 | 70 | 62 | 56 |
| 1.25 | 86 | 76 | 70 | 84 | 75 | 69 | 81 | 74 | 68 | 61 |
| 1.50 | 90 | 81 | 75 | 88 | 80 | 74 | 84 | 78 | 72 | 65 |
| 2.00 | 95 | 87 | 82 | 93 | 86 | 80 | 89 | 83 | 78 | 70 |
| 2.50 | 99 | 91 | 86 | 96 | 90 | 84 | 92 | 86 | 82 | 73 |
| 3.00 | 102 | 95 | 90 | 99 | 93 | 88 | 94 | 89 | 85 | 75 |
| 4.00 | 105 | 100 | 95 | 102 | 97 | 93 | 97 | 93 | 89 | 79 |
| 5.00 | 107 | 103 | 99 | 104 | 100 | 96 | 98 | 95 | 92 | 81 |
| 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:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# ISOCANDELA DIAGRAM

| | | |
|---|---|---|
| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |



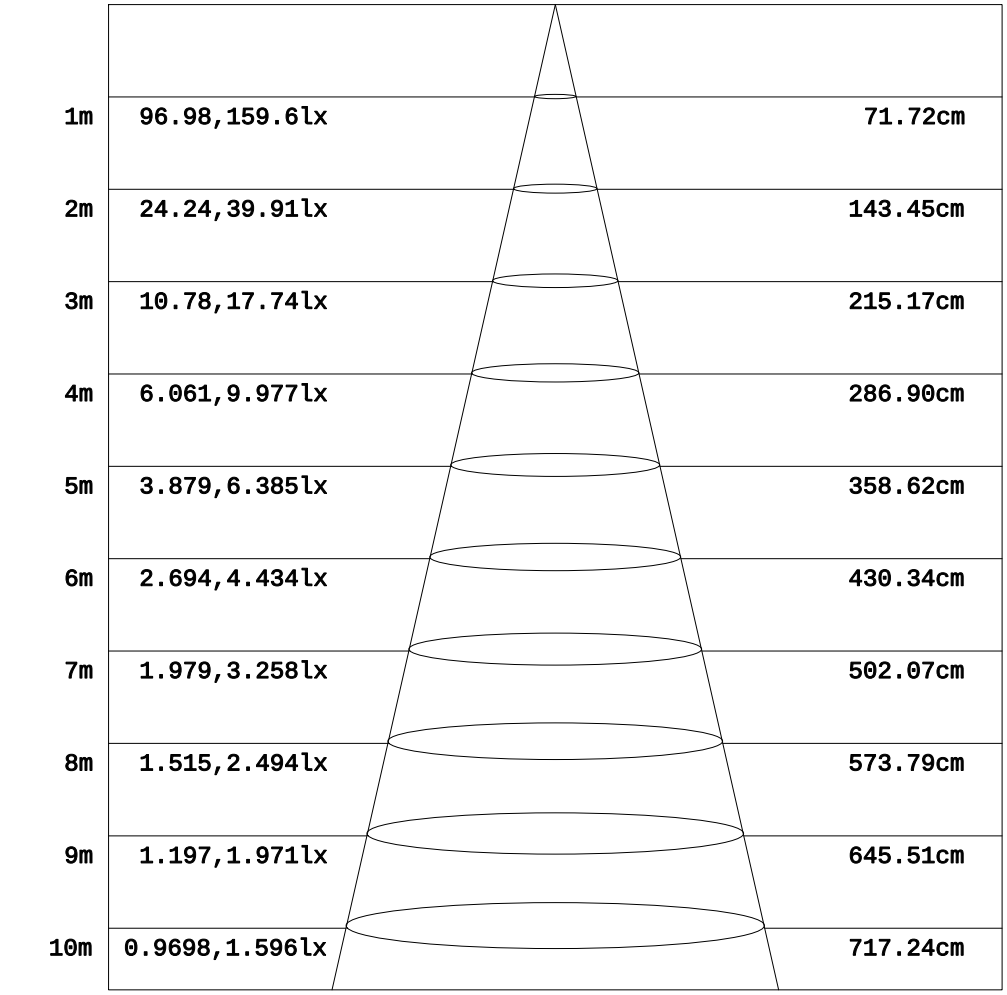

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

## AAI Figure

| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
|---|---|---|
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
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Flux out:40.36 lm



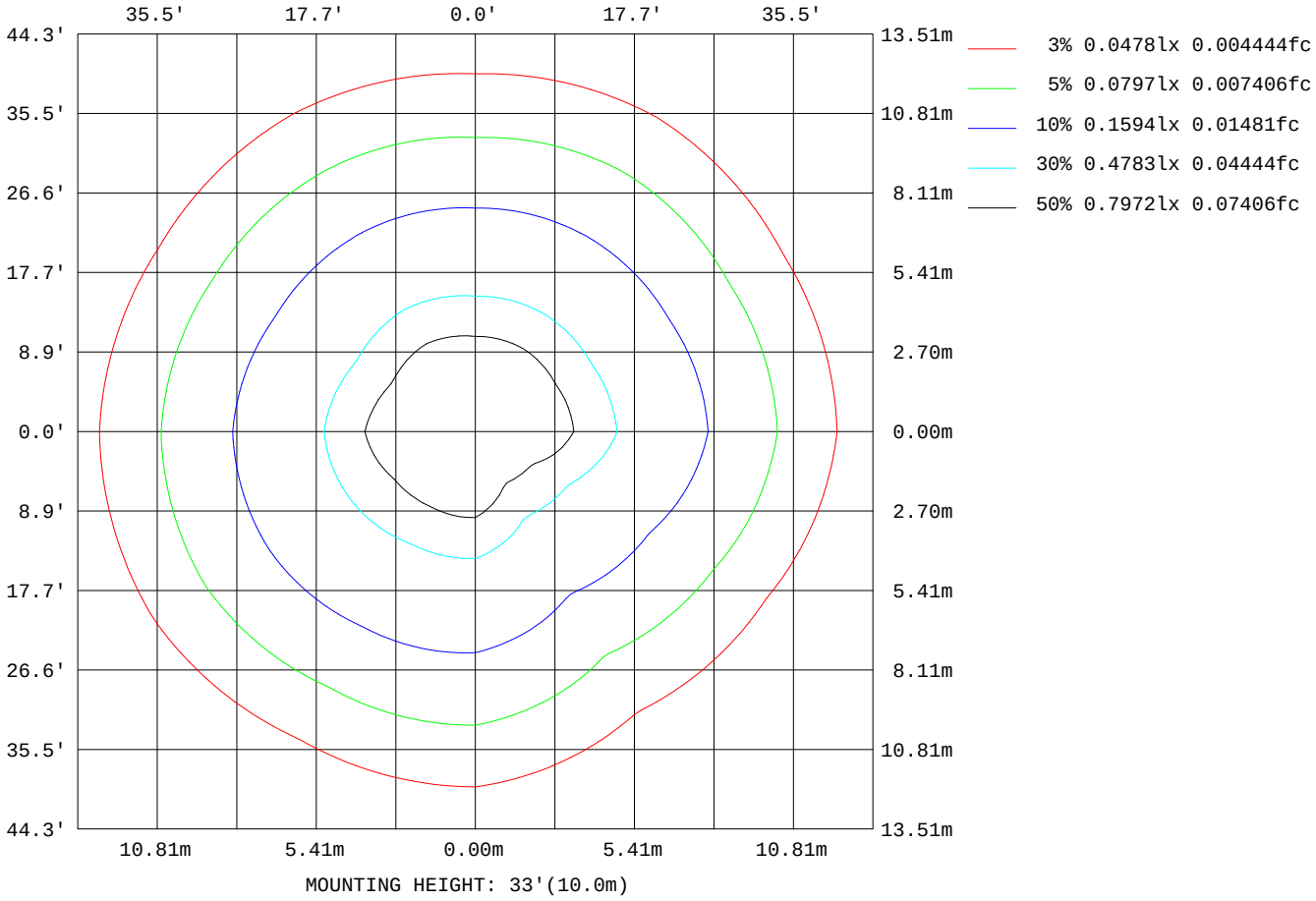

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

## ISOLUX DIAGRAM

| | | |
|---|---|---|
| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# LED Avg.L Report

| Test:U:23.942V I:0.0806A P:1.9308W PF:1.0000 Freq:0Hz Lamp Flux:162.346x1 lm | | |
|---|---|---|
| NAME: LED Strip Light | TYPE:LED | WEIGHT:/ |
| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |

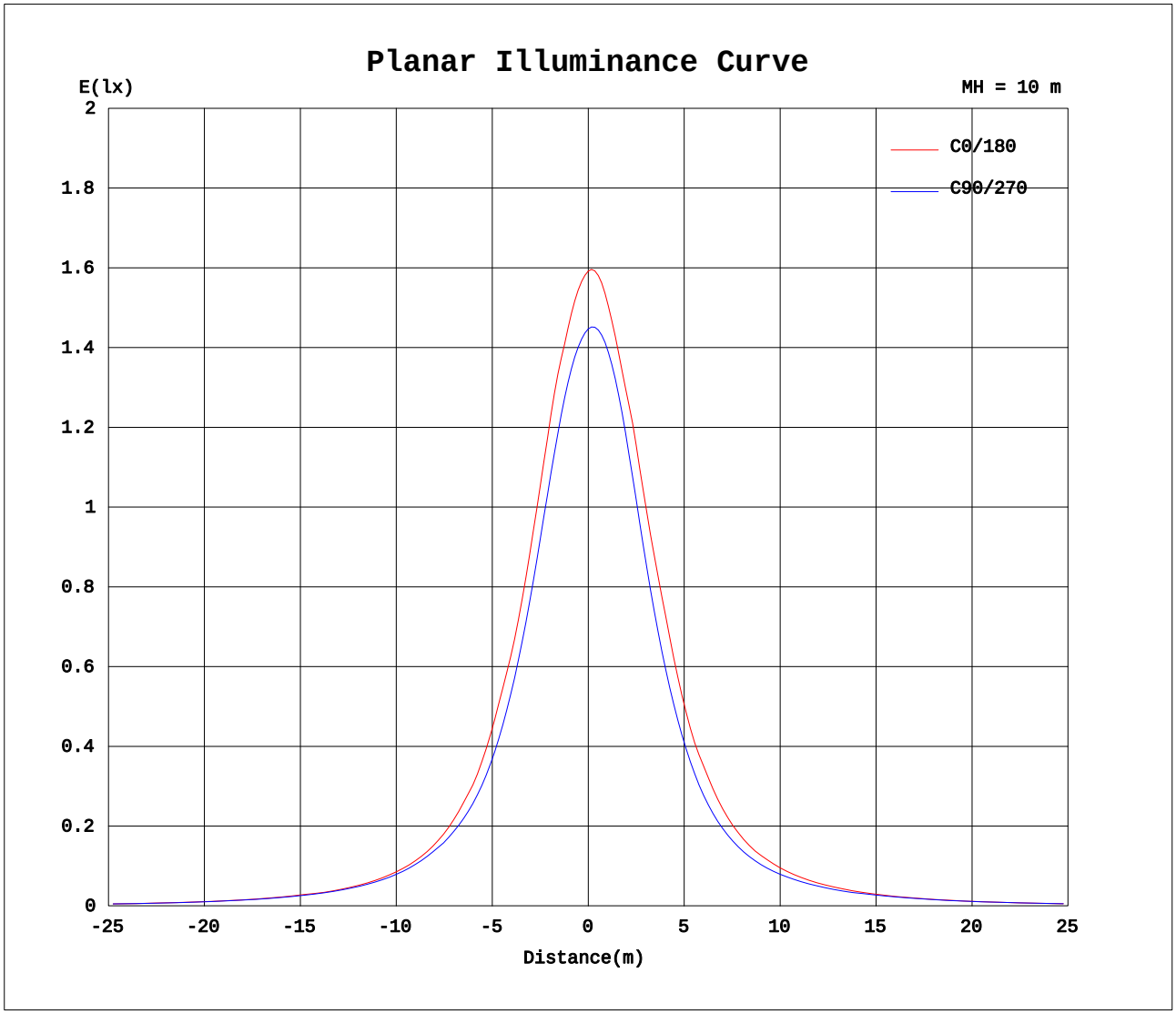
| AvgL | cd/m2 |
|---|---|
| L_0~180(65)av | 24707 |
| L_0~180(75)av | 23239 |
| L_0~180(85)av | 21096 |
| L_90~270(65)av | 26728 |
| L_90~270(75)av | 29856 |
| L_90~270(85)av | 61442 |
| L_45(65)av | 29122 |
| L_45(75)av | 33266 |
| L_45(85)av | 70116 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

## Planar Illuminance Curve




C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2022-01-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

# LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---|---|
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| SPEC.:/ | DIM.: / | SERIAL No.:1 |
| MFR.: Havit Commercial | SUR.:1000mm*10mm | Shielding Angle:- |

Table--1 UNIT: cd

| γ (DEG) \ C(DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 |
| 5 | 133 | 129 | 125 | 133 | 133 | 134 | 137 | 143 | 146 | 139 | 139 | 138 |
| 10 | 119 | 108 | 100 | 116 | 116 | 120 | 124 | 137 | 140 | 126 | 126 | 124 |
| 15 | 97.8 | 84.0 | 75.4 | 93.7 | 95.2 | 101 | 108 | 119 | 122 | 104 | 105 | 103 |
| 20 | 76.5 | 64.1 | 56.6 | 72.3 | 74.6 | 83.4 | 88.1 | 94.5 | 97.2 | 80.7 | 82.1 | 80.5 |
| 25 | 60.2 | 48.5 | 42.7 | 54.7 | 57.3 | 66.7 | 68.3 | 72.6 | 73.9 | 61.0 | 62.2 | 61.2 |
| 30 | 45.0 | 37.8 | 32.6 | 41.8 | 44.7 | 52.1 | 51.6 | 56.1 | 55.5 | 45.4 | 46.2 | 46.0 |
| 35 | 34.9 | 30.8 | 26.4 | 33.1 | 35.2 | 40.5 | 39.3 | 42.8 | 41.7 | 34.4 | 35.0 | 35.1 |
| 40 | 26.9 | 24.9 | 21.5 | 26.9 | 27.6 | 31.8 | 29.9 | 33.1 | 32.4 | 26.8 | 27.9 | 27.5 |
| 45 | 21.4 | 21.3 | 18.1 | 21.8 | 22.2 | 25.9 | 23.9 | 27.2 | 26.2 | 21.9 | 23.0 | 22.2 |
| 50 | 17.4 | 17.9 | 16.3 | 18.2 | 18.2 | 21.1 | 19.4 | 22.5 | 22.0 | 18.5 | 19.4 | 18.5 |
| 55 | 14.7 | 15.4 | 14.3 | 15.4 | 15.9 | 17.6 | 16.0 | 18.9 | 18.9 | 16.0 | 16.4 | 16.1 |
| 60 | 12.4 | 13.3 | 12.3 | 13.0 | 13.4 | 14.6 | 13.2 | 16.8 | 16.3 | 13.9 | 14.0 | 13.7 |
| 65 | 10.1 | 11.4 | 10.30 | 10.8 | 11.1 | 12.0 | 10.8 | 14.4 | 14.3 | 11.8 | 11.8 | 11.6 |
| 70 | 7.89 | 9.71 | 8.50 | 8.94 | 9.19 | 9.91 | 8.51 | 12.2 | 11.9 | 9.79 | 9.80 | 9.61 |
| 75 | 5.77 | 7.97 | 7.20 | 7.38 | 7.60 | 8.19 | 6.26 | 10.07 | 9.98 | 8.07 | 8.09 | 7.98 |
| 80 | 3.40 | 6.54 | 6.06 | 6.10 | 6.28 | 6.80 | 3.89 | 8.28 | 8.37 | 6.68 | 6.73 | 6.71 |
| 85 | 1.68 | 5.25 | 4.91 | 5.09 | 5.25 | 5.69 | 2.00 | 6.76 | 6.97 | 5.62 | 5.70 | 5.74 |
| 90 | 0.33 | 4.34 | 4.55 | 4.57 | 4.73 | 5.08 | 0.49 | 5.52 | 5.78 | 4.89 | 4.96 | 4.99 |
| 95 | 0.11 | 3.85 | 4.75 | 3.67 | 3.97 | 4.45 | 0.18 | 4.83 | 5.15 | 4.50 | 4.54 | 4.55 |
| 100 | 0.08 | 2.58 | 5.55 | 4.04 | 3.96 | 4.33 | 0.20 | 4.93 | 5.24 | 4.45 | 4.44 | 4.42 |
| 105 | 0.06 | 2.71 | 3.93 | 3.76 | 3.72 | 3.40 | 0.18 | 4.80 | 5.51 | 4.59 | 4.56 | 4.48 |
| 110 | 0.07 | 1.89 | 3.51 | 3.66 | 3.69 | 3.73 | 0.15 | 3.86 | 5.30 | 4.46 | 4.44 | 4.33 |
| 115 | 0.09 | 1.17 | 3.41 | 2.88 | 2.70 | 2.60 | 0.11 | 2.61 | 4.76 | 4.02 | 4.01 | 3.92 |
| 120 | 0.12 | 0.71 | 2.43 | 2.79 | 2.96 | 3.20 | 0.10 | 1.76 | 4.02 | 3.48 | 3.46 | 3.38 |
| 125 | 0.15 | 0.38 | 1.65 | 2.31 | 2.15 | 2.44 | 0.12 | 1.17 | 3.11 | 2.86 | 2.86 | 2.79 |
| 130 | 0.19 | 0.23 | 1.15 | 1.79 | 1.87 | 2.00 | 0.15 | 0.73 | 2.29 | 2.19 | 2.20 | 2.17 |
| 135 | 0.23 | 0.28 | 0.72 | 1.30 | 1.32 | 1.49 | 0.18 | 0.43 | 1.62 | 1.63 | 1.65 | 1.63 |
| 140 | 0.27 | 0.35 | 0.50 | 0.84 | 0.93 | 1.05 | 0.22 | 0.29 | 1.11 | 1.15 | 1.17 | 1.18 |
| 145 | 0.32 | 0.43 | 0.43 | 0.60 | 0.67 | 0.74 | 0.26 | 0.31 | 0.73 | 0.79 | 0.82 | 0.84 |
| 150 | 0.39 | 0.52 | 0.51 | 0.49 | 0.53 | 0.63 | 0.32 | 0.38 | 0.48 | 0.56 | 0.59 | 0.63 |
| 155 | 0.44 | 0.60 | 0.60 | 0.50 | 0.52 | 0.58 | 0.38 | 0.46 | 0.45 | 0.47 | 0.49 | 0.52 |
| 160 | 0.48 | 0.64 | 0.67 | 0.55 | 0.55 | 0.57 | 0.43 | 0.54 | 0.53 | 0.52 | 0.53 | 0.54 |
| 165 | 0.50 | 0.65 | 0.70 | 0.60 | 0.59 | 0.60 | 0.48 | 0.62 | 0.62 | 0.58 | 0.58 | 0.58 |
| 170 | 0.55 | 0.65 | 0.67 | 0.61 | 0.61 | 0.60 | 0.53 | 0.70 | 0.69 | 0.60 | 0.60 | 0.58 |
| 175 | 0.61 | 0.72 | 0.67 | 0.60 | 0.61 | 0.60 | 0.59 | 0.75 | 0.73 | 0.59 | 0.59 | 0.58 |
| 180 | 0.64 | 0.79 | 0.73 | 0.62 | 0.61 | 0.60 | 0.64 | 0.79 | 0.73 | 0.62 | 0.61 | 0.61 |

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