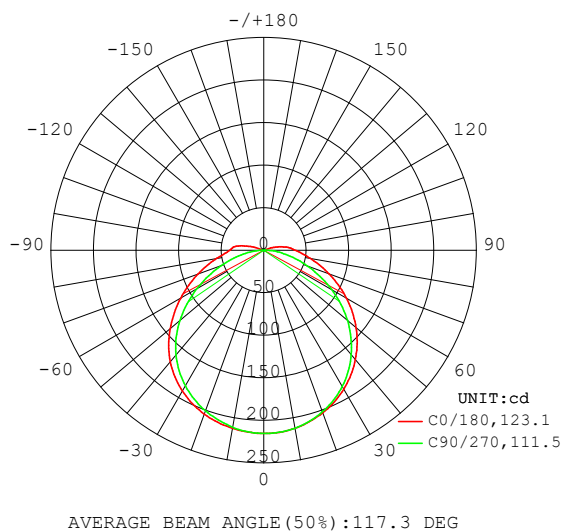


LUMINAIRE PHOTOMETRIC TEST REPORT

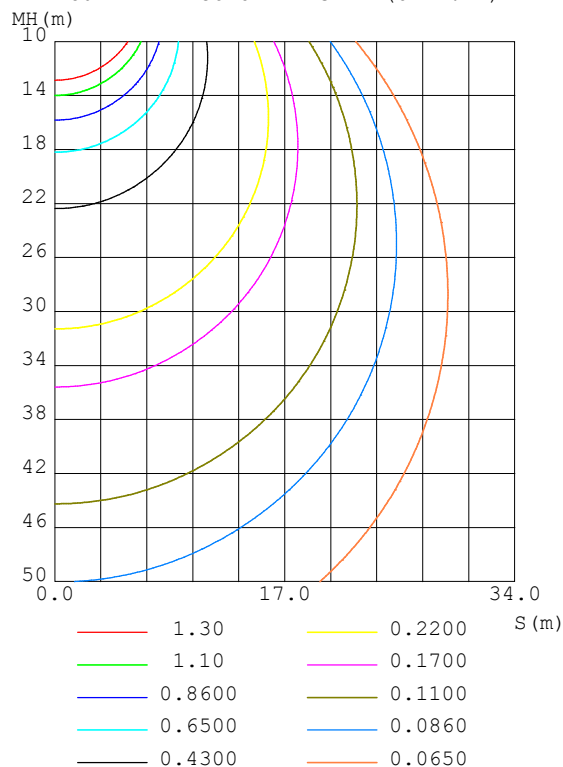
| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 72.04 lm/W |
|-------------------|----------|-----------------------|--------|---------------------|-----------|-----------------|
| MODEL | 33.025 | I _{max} (cd) | 215.4 | S/MH (C0/180) | 1.32 | |
| NOMINAL POWER (W) | 5w metro | LOR (%) | 100.0 | S/MH (C90/270) | 1.27 | |
| RATED VOLTAGE (V) | 24 | TOTAL FLUX (lm) | 703.08 | η UP, DN (C0-180) | 1.9, 48.3 | |
| NOMINAL FLUX (lm) | 703.08 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 2.0, 47.8 | |
| LAMPS INSIDE | 1 | η up (%) | 3.8 | CIBSE SHR NOM | 1.50 | |
| TEST VOLTAGE (V) | 24 | η down (%) | 96.2 | CIBSE SHR MAX | 1.50 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Marçal Huguet
Test Date: February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 37%
Test Distance: 8.200m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

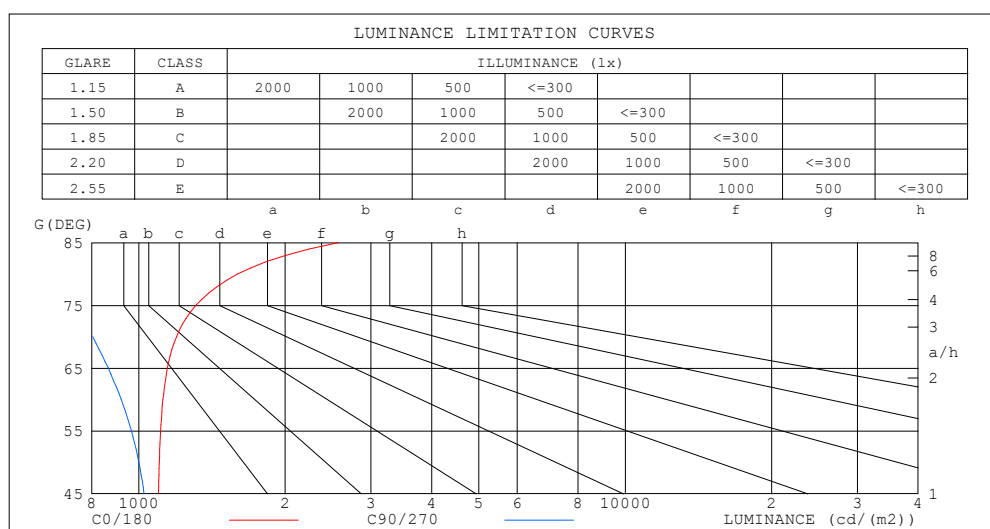
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|-----|-----------------------|-------|--------|-------|-------|-------|--------|-------|---------|---------|---------|------------|
| 10 | 212.5 | 212.5 | 212.3 | 212.4 | 212.5 | 211.9 | 211.3 | 211.9 | 0- 10 | 20.41 | 20.41 | 2.9,2.9 |
| 20 | 203.2 | 202.8 | 202.0 | 203.6 | 204.9 | 202.2 | 200.7 | 201.1 | 10- 20 | 58.77 | 79.18 | 11.3,11.3 |
| 30 | 188.5 | 186.8 | 184.9 | 188.7 | 191.2 | 187.5 | 184.2 | 185.3 | 20- 30 | 90.20 | 169.4 | 24.1,24.1 |
| 40 | 167.7 | 164.5 | 160.0 | 166.8 | 171.0 | 166.4 | 160.6 | 163.4 | 30- 40 | 110.6 | 280.0 | 39.8,39.8 |
| 50 | 141.8 | 135.6 | 128.6 | 137.4 | 143.6 | 137.7 | 128.8 | 135.4 | 40- 50 | 116.7 | 396.7 | 56.4,56.4 |
| 60 | 112.2 | 103.1 | 92.04 | 102.7 | 112.8 | 102.6 | 90.77 | 102.3 | 50- 60 | 106.9 | 503.6 | 71.6,71.6 |
| 70 | 81.82 | 70.87 | 55.05 | 68.57 | 82.66 | 68.23 | 53.41 | 69.75 | 60- 70 | 84.13 | 587.7 | 83.6,83.6 |
| 80 | 55.46 | 42.87 | 23.97 | 40.37 | 56.21 | 40.74 | 21.85 | 38.15 | 70- 80 | 56.39 | 644.1 | 91.6,91.6 |
| 90 | 37.10 | 21.88 | 0.7963 | 21.11 | 39.95 | 21.46 | 0.3363 | 21.62 | 80- 90 | 32.17 | 676.2 | 96.2,96.2 |
| 100 | 23.78 | 10.53 | 0.4322 | 11.79 | 30.20 | 12.39 | 0.5244 | 10.21 | 90-100 | 17.97 | 694.2 | 98.7,98.7 |
| 110 | 8.417 | 2.373 | 0.6595 | 3.589 | 9.787 | 3.830 | 0.7732 | 2.610 | 100-110 | 8.646 | 702.9 | 100,100 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0.2163 | 703.1 | 100,100 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 703.1 | 100,100 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 703.1 | 100,100 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 703.1 | 100,100 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 703.1 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 703.1 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 703.1 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Marçal Huguet
 Test Date:February 2021

γ Range: 0 - 110DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:37%
 Test Distance:8.200m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 2577 | 675 |
| 80 | 1596 | 690 |
| 75 | 1311 | 743 |
| 70 | 1195 | 805 |
| 65 | 1145 | 866 |
| 60 | 1121 | 920 |
| 55 | 1109 | 966 |
| 50 | 1102 | 1000 |
| 45 | 1097 | 1026 |

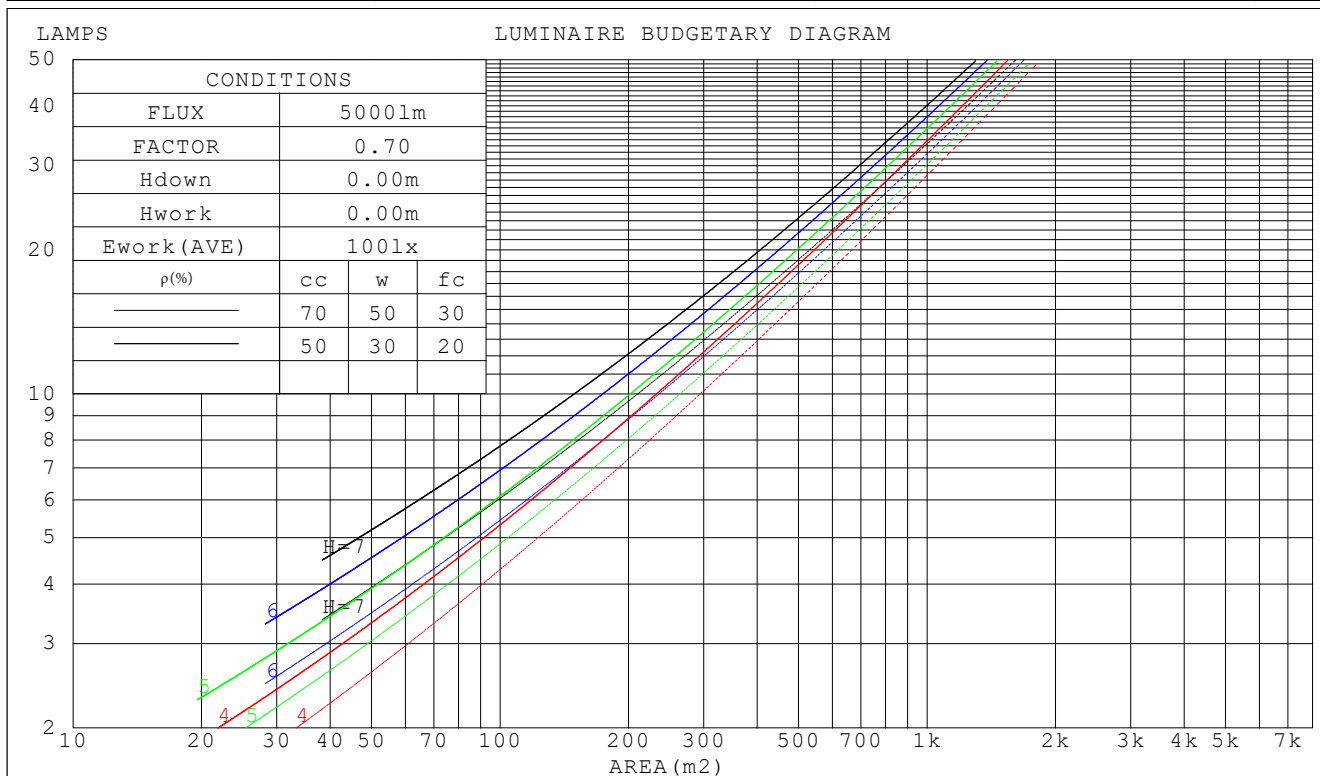
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Marçal Huguet
Test Date: February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 37%
Test Distance: 8.200m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .96 |
| 1.0 | 1.01 | .96 | .92 | .99 | .94 | .90 | .93 | .90 | .87 | .89 | .86 | .83 | .85 | .82 | .80 | .78 |
| 2.0 | .88 | .80 | .74 | .85 | .79 | .73 | .81 | .75 | .71 | .77 | .72 | .68 | .74 | .70 | .66 | .64 |
| 3.0 | .77 | .68 | .61 | .75 | .67 | .60 | .71 | .64 | .59 | .68 | .62 | .57 | .65 | .60 | .56 | .53 |
| 4.0 | .68 | .58 | .51 | .66 | .57 | .51 | .63 | .56 | .50 | .60 | .54 | .49 | .57 | .52 | .48 | .45 |
| 5.0 | .60 | .51 | .44 | .59 | .50 | .44 | .56 | .49 | .43 | .54 | .47 | .42 | .52 | .46 | .41 | .39 |
| 6.0 | .54 | .45 | .38 | .53 | .44 | .38 | .51 | .43 | .37 | .49 | .42 | .37 | .47 | .41 | .36 | .34 |
| 7.0 | .49 | .40 | .34 | .48 | .39 | .33 | .46 | .38 | .33 | .44 | .37 | .32 | .43 | .37 | .32 | .30 |
| 8.0 | .45 | .36 | .30 | .44 | .36 | .30 | .42 | .35 | .29 | .41 | .34 | .29 | .39 | .33 | .29 | .27 |
| 9.0 | .41 | .33 | .27 | .40 | .32 | .27 | .39 | .31 | .26 | .37 | .31 | .26 | .36 | .30 | .26 | .24 |
| 10.0 | .38 | .30 | .24 | .37 | .29 | .24 | .36 | .29 | .24 | .35 | .28 | .24 | .33 | .28 | .23 | .21 |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

| ρ_{CC} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| ρ_W | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fC} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Wall Exitance Coefficients (WEC) | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .344 | .196 | .062 | .336 | .191 | .061 | .320 | .184 | .059 | .306 | .176 | .057 | .292 | .170 | .055 | |
| 2.0 | .311 | .170 | .052 | .303 | .167 | .051 | .289 | .161 | .050 | .277 | .155 | .049 | .265 | .150 | .047 | |
| 3.0 | .282 | .150 | .045 | .276 | .148 | .044 | .263 | .143 | .043 | .252 | .138 | .042 | .241 | .134 | .041 | |
| 4.0 | .258 | .134 | .039 | .252 | .132 | .039 | .241 | .128 | .038 | .230 | .124 | .037 | .221 | .120 | .037 | |
| 5.0 | .236 | .120 | .035 | .231 | .119 | .035 | .221 | .115 | .034 | .212 | .112 | .033 | .204 | .109 | .033 | |
| 6.0 | .218 | .109 | .031 | .214 | .108 | .031 | .205 | .105 | .031 | .196 | .102 | .030 | .189 | .099 | .029 | |
| 7.0 | .202 | .100 | .028 | .198 | .099 | .028 | .190 | .096 | .028 | .183 | .094 | .027 | .176 | .091 | .027 | |
| 8.0 | .188 | .092 | .026 | .185 | .091 | .026 | .177 | .089 | .025 | .171 | .086 | .025 | .164 | .084 | .025 | |
| 9.0 | .176 | .085 | .024 | .173 | .084 | .024 | .166 | .082 | .023 | .160 | .080 | .023 | .154 | .078 | .023 | |
| 10.0 | .165 | .079 | .022 | .162 | .078 | .022 | .156 | .077 | .022 | .151 | .075 | .021 | .145 | .073 | .021 | |

| ρ_{CC} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| ρ_W | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients (CCEC) | | | | | | | | | | | | | | | |
| 0.0 | .220 | .220 | .220 | .188 | .188 | .188 | .128 | .128 | .128 | .074 | .074 | .074 | .024 | .024 | .024 | |
| 1.0 | .212 | .185 | .161 | .181 | .159 | .139 | .124 | .109 | .096 | .071 | .063 | .056 | .023 | .020 | .018 | |
| 2.0 | .204 | .161 | .125 | .175 | .139 | .108 | .120 | .096 | .076 | .069 | .056 | .044 | .022 | .018 | .014 | |
| 3.0 | .197 | .144 | .102 | .168 | .124 | .089 | .116 | .086 | .062 | .067 | .050 | .037 | .021 | .016 | .012 | |
| 4.0 | .189 | .131 | .087 | .162 | .113 | .075 | .111 | .079 | .053 | .064 | .046 | .031 | .021 | .015 | .010 | |
| 5.0 | .181 | .121 | .076 | .156 | .104 | .066 | .107 | .073 | .047 | .062 | .043 | .028 | .020 | .014 | .009 | |
| 6.0 | .174 | .112 | .068 | .149 | .097 | .060 | .103 | .068 | .042 | .060 | .040 | .025 | .019 | .013 | .008 | |
| 7.0 | .167 | .106 | .063 | .143 | .092 | .055 | .099 | .064 | .039 | .058 | .038 | .023 | .019 | .012 | .008 | |
| 8.0 | .160 | .100 | .058 | .138 | .087 | .051 | .095 | .061 | .036 | .056 | .036 | .022 | .018 | .012 | .007 | |
| 9.0 | .154 | .095 | .055 | .133 | .082 | .048 | .092 | .058 | .034 | .054 | .034 | .020 | .017 | .011 | .007 | |
| 10.0 | .148 | .091 | .052 | .128 | .079 | .046 | .089 | .055 | .033 | .052 | .033 | .019 | .017 | .011 | .006 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:Marçal Huguet
 Test Date:February 2021

γ Range: 0 - 110DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:37%
 Test Distance:8.200m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|--|---------------|------------------|------|------|-------------------|---------------|----------------|------------------|------|------|------|
| NAME: Canovellas | | | | | TYPE:Neutro 4000k | | | WEIGHT:N/D | | | |
| SPEC.:tira flexible ip20 | | | | | DIM.: 10x2x500mm | | | SERIAL No.:N/D | | | |
| MFR.: Luz Negra s.l. | | | | | SUR.:22 | | | 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 | 2H | 14.3 | 15.9 | 14.7 | 16.1 | 16.4 | 13.6 | 15.1 | 13.9 | 15.4 | 15.7 |
| | 3H | 16.3 | 17.7 | 16.7 | 18.0 | 18.3 | 15.0 | 16.4 | 15.4 | 16.7 | 17.0 |
| | 4H | 17.3 | 18.6 | 17.7 | 19.0 | 19.3 | 15.6 | 16.9 | 15.9 | 17.2 | 17.6 |
| | 6H | 18.3 | 19.6 | 18.7 | 19.9 | 20.3 | 16.0 | 17.3 | 16.4 | 17.6 | 18.0 |
| | 8H | 18.9 | 20.1 | 19.3 | 20.5 | 20.8 | 16.1 | 17.4 | 16.6 | 17.7 | 18.1 |
| | 12H | 19.5 | 20.7 | 19.9 | 21.1 | 21.5 | 16.3 | 17.4 | 16.7 | 17.8 | 18.2 |
| 4H | 2H | 14.9 | 16.3 | 15.3 | 16.6 | 16.9 | 14.3 | 15.7 | 14.7 | 16.0 | 16.3 |
| | 3H | 17.1 | 18.3 | 17.5 | 18.6 | 19.0 | 16.0 | 17.1 | 16.4 | 17.5 | 17.9 |
| | 4H | 18.3 | 19.3 | 18.7 | 19.7 | 20.2 | 16.7 | 17.8 | 17.1 | 18.1 | 18.6 |
| | 6H | 19.5 | 20.5 | 20.0 | 20.9 | 21.3 | 17.3 | 18.2 | 17.7 | 18.6 | 19.1 |
| | 8H | 20.2 | 21.1 | 20.7 | 21.5 | 22.0 | 17.5 | 18.4 | 18.0 | 18.8 | 19.3 |
| | 12H | 20.9 | 21.8 | 21.4 | 22.2 | 22.7 | 17.7 | 18.5 | 18.2 | 18.9 | 19.4 |
| 8H | 4H | 18.6 | 19.5 | 19.0 | 19.9 | 20.4 | 17.2 | 18.1 | 17.7 | 18.5 | 19.0 |
| | 6H | 20.1 | 20.8 | 20.6 | 21.3 | 21.8 | 18.0 | 18.8 | 18.5 | 19.3 | 19.8 |
| | 8H | 20.9 | 21.6 | 21.4 | 22.1 | 22.6 | 18.4 | 19.1 | 18.9 | 19.6 | 20.1 |
| | 12H | 21.9 | 22.5 | 22.5 | 23.0 | 23.6 | 18.7 | 19.3 | 19.2 | 19.8 | 20.4 |
| 12H | 4H | 18.6 | 19.4 | 19.1 | 19.9 | 20.4 | 17.3 | 18.2 | 17.8 | 18.6 | 19.1 |
| | 6H | 20.2 | 20.8 | 20.7 | 21.3 | 21.9 | 18.3 | 19.0 | 18.8 | 19.5 | 20.0 |
| | 8H | 21.1 | 21.7 | 21.6 | 22.2 | 22.8 | 18.8 | 19.3 | 19.3 | 19.8 | 20.4 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.2 | | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.1 / - 0.3 | | | | | |

CIE Pub.117, 703.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.2$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:February 2021

γ Range: 0 - 110DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

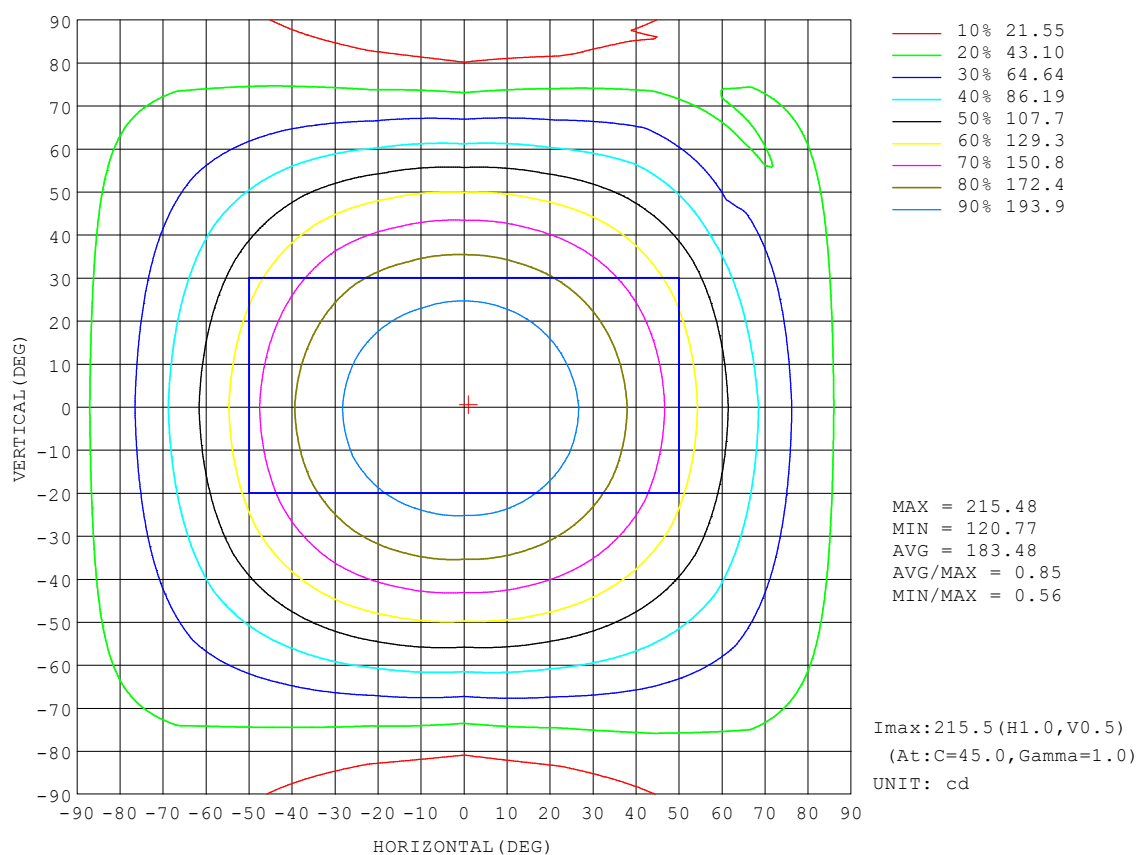
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| k = 0.60 | 55 | 43 | 35 | 54 | 42 | 35 | 52 | 42 | 35 | 29 |
| 0.80 | 64 | 52 | 45 | 63 | 52 | 44 | 61 | 51 | 44 | 37 |
| 1.00 | 73 | 61 | 53 | 71 | 60 | 53 | 69 | 61 | 52 | 45 |
| 1.25 | 80 | 68 | 61 | 78 | 67 | 60 | 75 | 66 | 59 | 51 |
| 1.50 | 85 | 74 | 66 | 83 | 73 | 66 | 79 | 71 | 64 | 56 |
| 2.00 | 92 | 82 | 75 | 89 | 81 | 74 | 86 | 78 | 72 | 64 |
| 2.50 | 96 | 87 | 80 | 93 | 85 | 79 | 89 | 82 | 77 | 68 |
| 3.00 | 99 | 91 | 85 | 97 | 89 | 84 | 92 | 86 | 81 | 72 |
| 4.00 | 103 | 97 | 91 | 101 | 95 | 90 | 96 | 91 | 87 | 77 |
| 5.00 | 106 | 100 | 95 | 103 | 98 | 94 | 98 | 94 | 90 | 80 |
| 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: 25DEG
 Operators: Marçal Huguet
 Test Date: February 2021

γ Range: 0 - 110DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 37%
 Test Distance: 8.200m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

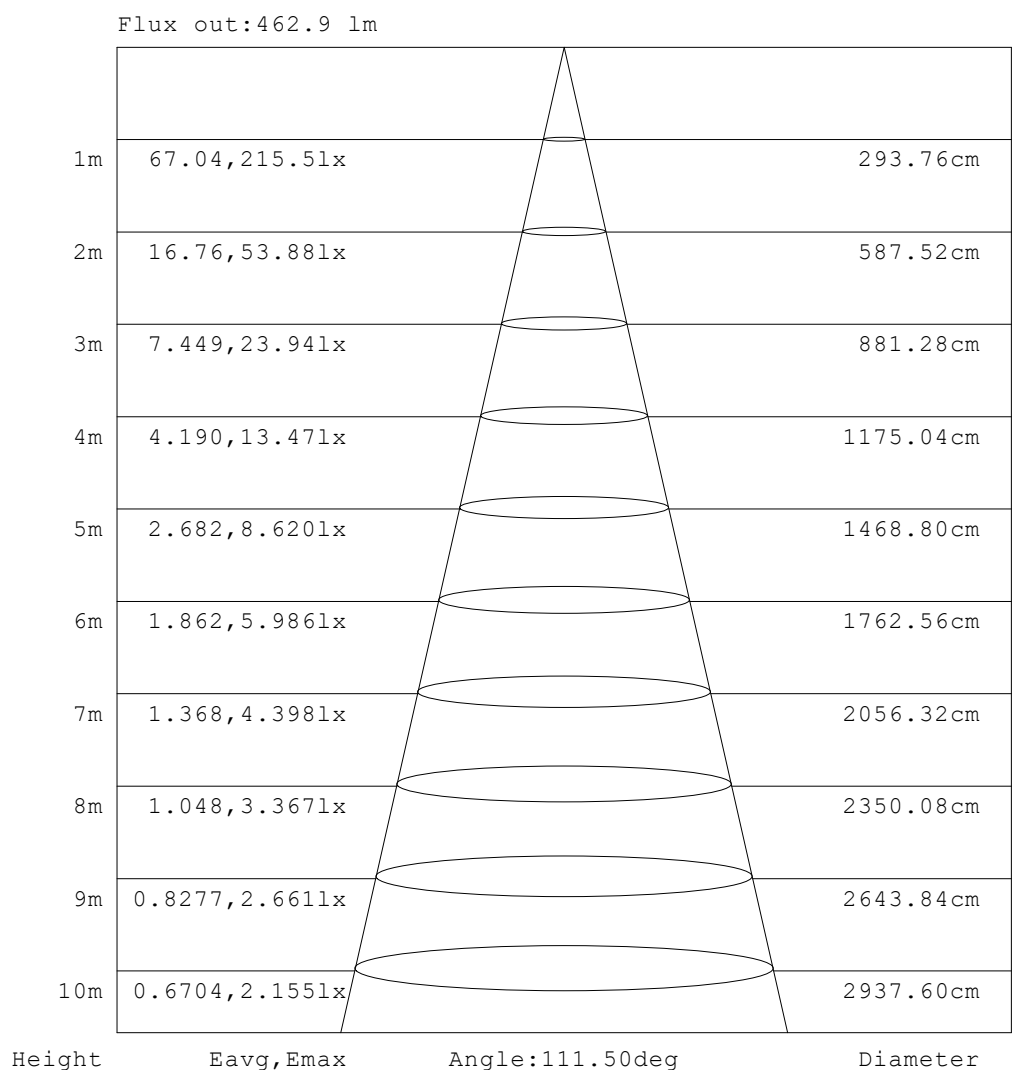


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |



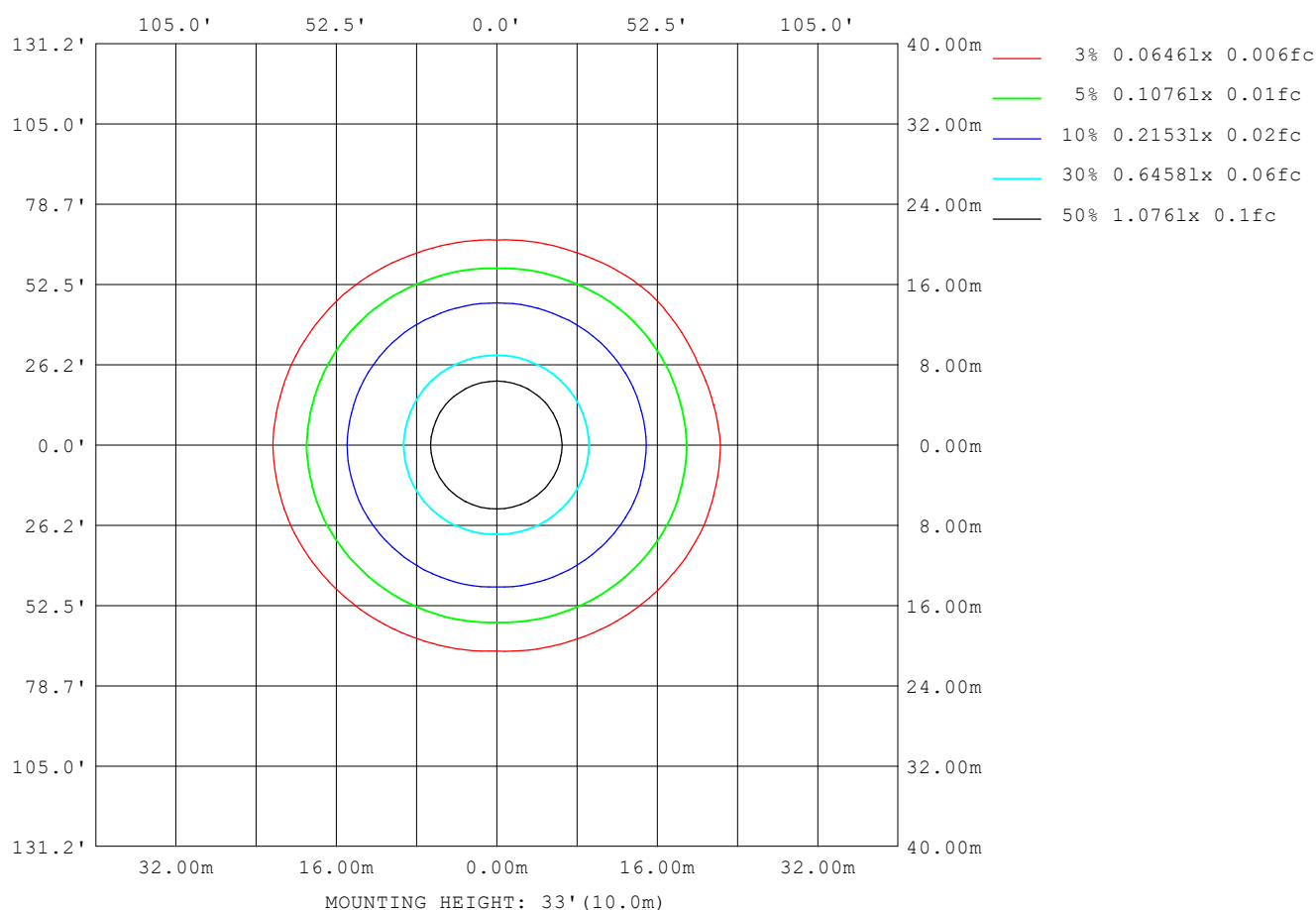
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Marçal Huguet
Test Date: February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 37%
Test Distance: 8.200m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:Marçal Huguet
Test Date:February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

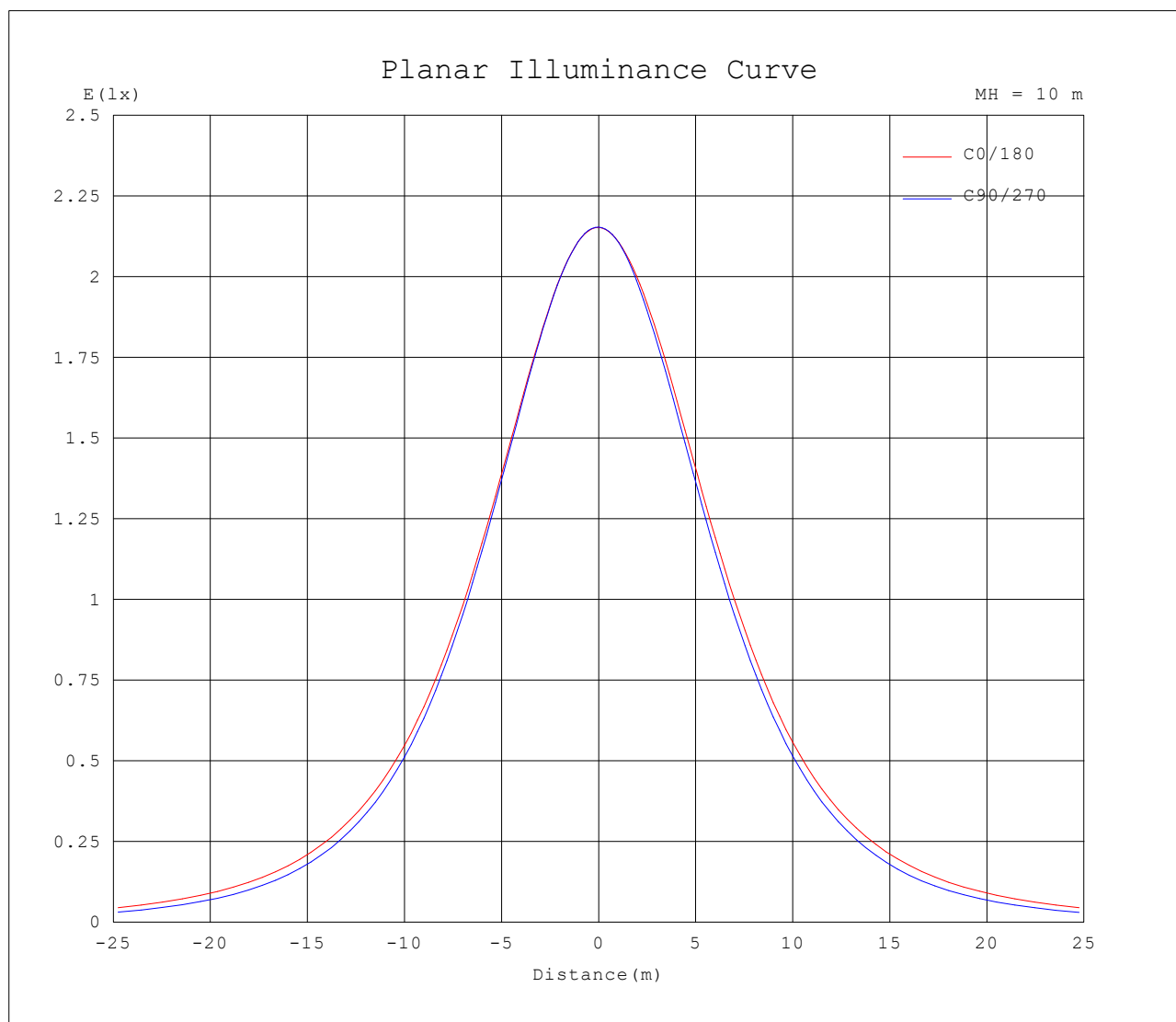
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 1149 |
| L_0~180 (75) av | 1319 |
| L_0~180 (85) av | 2614 |
| L_90~270 (65) av | 856 |
| L_90~270 (75) av | 727 |
| L_90~270 (85) av | 606 |
| L_45 (65) av | 1012 |
| L_45 (75) av | 1041 |
| L_45 (85) av | 1703 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: Marçal Huguet
Test Date: February 2021

γ Range: 0 - 110DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 37%
Test Distance: 8.200m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--------------------------|-------------------|------------------|
| NAME: Canovellas | TYPE:Neutro 4000k | WEIGHT:N/D |
| SPEC.:tira flexible ip20 | DIM.: 10x2x500mm | SERIAL No.:N/D |
| MFR.: Luz Negra s.l. | SUR.:22 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) Y (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 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | | | |
| 5 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 214 | 214 | 214 | 214 | 214 | 215 | 215 | | | |
| 10 | 213 | 213 | 213 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 211 | 211 | 211 | 212 | 212 | | | |
| 15 | 209 | 209 | 208 | 208 | 208 | 208 | 209 | 209 | 209 | 209 | 208 | 207 | 207 | 207 | 207 | 208 | | | |
| 20 | 203 | 203 | 203 | 202 | 202 | 203 | 204 | 205 | 205 | 204 | 202 | 201 | 201 | 201 | 201 | 202 | | | |
| 25 | 197 | 197 | 196 | 195 | 194 | 195 | 197 | 198 | 199 | 198 | 196 | 194 | 193 | 193 | 194 | 195 | | | |
| 30 | 188 | 188 | 187 | 186 | 185 | 186 | 189 | 191 | 191 | 190 | 187 | 185 | 184 | 184 | 185 | 187 | | | |
| 35 | 179 | 179 | 177 | 175 | 173 | 175 | 179 | 181 | 182 | 180 | 178 | 174 | 173 | 174 | 175 | 177 | | | |
| 40 | 168 | 167 | 165 | 162 | 160 | 163 | 167 | 170 | 171 | 169 | 166 | 162 | 161 | 161 | 163 | 166 | | | |
| 45 | 155 | 155 | 151 | 147 | 145 | 148 | 153 | 157 | 158 | 156 | 153 | 148 | 146 | 147 | 150 | 153 | | | |
| 50 | 142 | 141 | 136 | 131 | 129 | 132 | 137 | 142 | 144 | 141 | 138 | 132 | 129 | 131 | 135 | 139 | | | |
| 55 | 127 | 126 | 120 | 114 | 111 | 115 | 120 | 126 | 128 | 125 | 121 | 113 | 110 | 113 | 119 | 124 | | | |
| 60 | 112 | 110 | 103 | 96.3 | 92.0 | 96.2 | 103 | 110 | 113 | 109 | 103 | 94.3 | 90.8 | 94.4 | 102 | 108 | | | |
| 65 | 96.8 | 94.6 | 86.7 | 78.4 | 73.2 | 77.7 | 85.1 | 93.5 | 97.5 | 92.5 | 84.7 | 75.5 | 71.5 | 76.0 | 85.7 | 88.1 | | | |
| 70 | 81.8 | 79.4 | 70.9 | 61.2 | 55.0 | 60.0 | 68.6 | 77.9 | 82.7 | 76.9 | 68.2 | 58.2 | 53.4 | 58.9 | 69.7 | 66.6 | | | |
| 75 | 67.9 | 65.2 | 56.2 | 45.2 | 38.5 | 44.0 | 53.5 | 63.6 | 68.7 | 62.7 | 53.5 | 42.9 | 36.8 | 43.5 | 52.4 | 58.4 | | | |
| 80 | 55.5 | 52.4 | 42.9 | 31.2 | 24.0 | 30.0 | 40.4 | 51.1 | 56.2 | 50.4 | 40.7 | 29.5 | 21.9 | 28.9 | 38.2 | 36.8 | | | |
| 85 | 44.9 | 41.3 | 31.3 | 19.3 | 11.8 | 18.5 | 29.5 | 40.7 | 46.2 | 40.4 | 30.1 | 18.2 | 9.35 | 15.2 | 27.8 | 40.9 | | | |
| 90 | 37.1 | 32.6 | 21.9 | 10.3 | 0.80 | 10.1 | 21.1 | 33.3 | 39.9 | 33.5 | 21.5 | 9.51 | 0.34 | 8.91 | 21.6 | 32.4 | | | |
| 95 | 31.5 | 26.4 | 15.2 | 5.20 | 0.32 | 5.25 | 15.3 | 29.1 | 36.9 | 30.2 | 15.6 | 4.80 | 0.41 | 4.38 | 14.6 | 26.6 | | | |
| 100 | 23.8 | 20.2 | 10.5 | 2.00 | 0.43 | 2.27 | 11.8 | 24.8 | 30.2 | 26.0 | 12.4 | 2.04 | 0.52 | 1.87 | 10.2 | 20.7 | | | |
| 105 | 15.1 | 13.1 | 6.40 | 0.83 | 0.55 | 0.70 | 8.20 | 16.9 | 18.6 | 17.2 | 8.92 | 0.70 | 0.64 | 0.83 | 6.48 | 13.4 | | | |
| 110 | 8.42 | 7.05 | 2.37 | 0.83 | 0.66 | 0.70 | 3.59 | 8.88 | 9.79 | 8.94 | 3.83 | 0.79 | 0.77 | 0.81 | 2.61 | 7.34 | | | |
| 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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Operators:Marçal Huguet
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:37%
Test Distance:8.200m [K=1.0000]
Remarks: