

The image shows the cover of a lighting guide. It features a close-up, diagonal view of a textured, golden-yellow material, likely a fabric or acoustic panel, which is illuminated from below by a series of small, square, recessed lights. The lights create a warm, golden glow that highlights the texture of the material. The background is a solid dark blue.

AcustioTM

Colline x Terrano

Lighting Guide Colline x Terrano

Lighting Guide

ABOUT THE GUIDE

The guide was created as assistance in quickly selecting lighting modules for the Colline x Terrano fixtures, essential for illuminating desks and their arrangements, as well as conference tables in office spaces where basic ambient lighting is present. **The fixtures have been selected to ensure a minimum illuminance of 500 lux on desks and the required uniformity of light. The calculations were made taking into account the maintenance factor $n = 0.8$**

The chosen fixtures in each layout have a very low glare index, less than required in office spaces ($UGR < 19$). The fixtures can be equipped with a control system featuring presence and daylight sensors, allowing for additional energy cost savings. Individual dimming of each fixture is also possible, either through a button or a panel.

REMARKS

Lighting

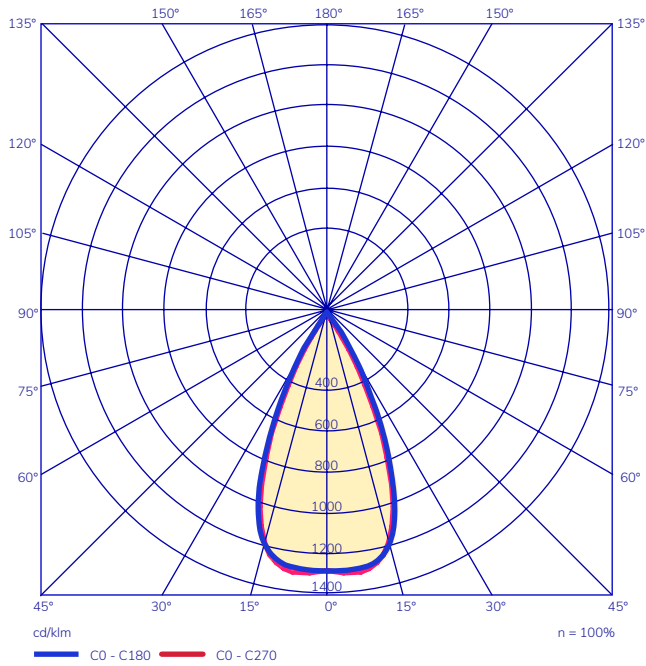
In the absence of other lighting besides desk illumination, it is necessary to carry out a professional lighting design in compliance with building regulations and interior lighting standards. We also encourage a comprehensive lighting selection for spaces with general illumination. Considering existing lighting in calculations will allow for optimizing the selection of fixtures and achieving additional savings on electricity costs. For this purpose, please contact our advisor, who will prepare a complete lighting design along with a proposed control system.

Acoustics

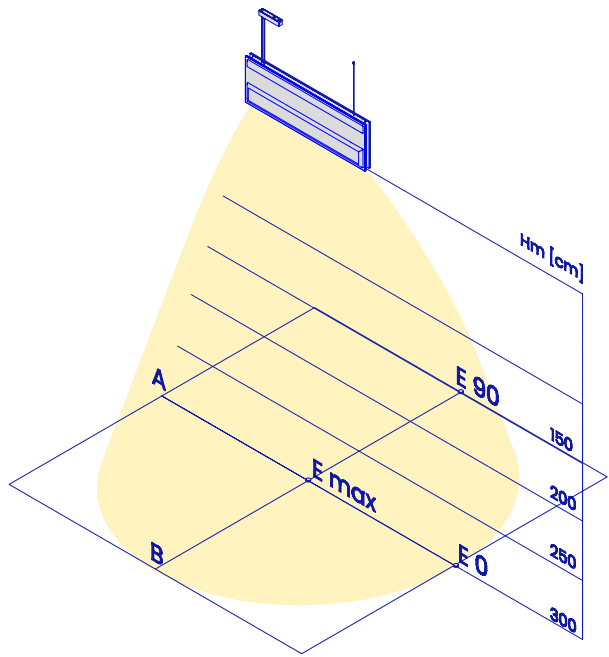
The suggested arrangement of fixtures ensures the required lighting parameters for desks and conference tables and also constitutes a component of the interior acoustic improvement system. To achieve proper values for acoustic parameters in the room, a complete acoustic design is necessary. Such a development will complement our CollinexTerrano fixtures with other elements of the acoustic improvement system in the spaces. If you are interested in a comprehensive acoustic enhancement in the room, please contact our advisor.



LIGHT DISTRIBUTION AND PHOTOMERTIC



Light distribution



Measured illuminated area

			1450 [lm]			2000 [lm]			3200 [lm]		
Hm[cm]	A[cm]	B[cm]	Emax[lx]	Eo[lx]	E90[lx]	Emax[lx]	Eo[lx]	E90[lx]	Emax[lx]	Eo[lx]	E90[lx]
150	154	147	828	306	295	1142	422	408	1827	675	652
200	205	196	466	172	166	642	237	229	1028	380	367
250	256	245	298	110	106	411	152	147	658	243	235
300	207	294	207	77	74	285	106	102	457	169	163

LEGEND

Hm - Distance from the floor to the bottom of the lamp in centimeter

A - Width of the light beam from the lighting fixture

B - Length of the light beam from the lighting fixture

EMax - Maximum illuminance [lx] at the center

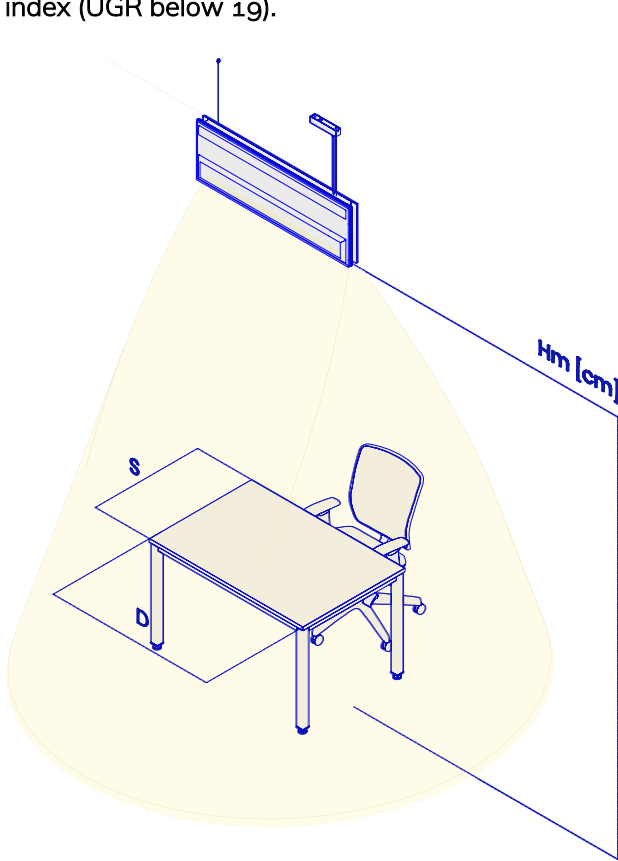
Eo - Illuminance [lx] at the edge of the light beam (along the lighting fixture)

E90 - Illuminance [lx] at the edge of the light beam (across the lighting fixture)

The light source complies with the office standard **UGR/RUG < 19*** depending on the suspension height. (This is a method for assessing and comparing glare caused by the light source).

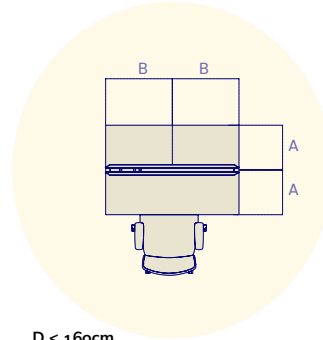
SINGLE DESK

Correct positioning of lights according to desk sizes. Selection of appropriate lighting in compliance with the applicable lighting standard (500 lux per workstation, evenly illuminated), and ensuring a low glare index (UGR below 19).



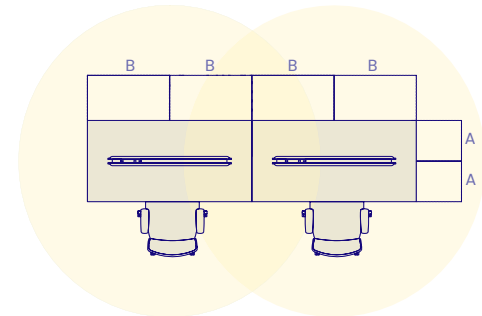
Lighting position based on desk size S [cm] x D [cm] x Hm [cm]

For longer desk setups, to ensure uniform lighting, it is advisable to design the start and end points of the lighting fixtures in line with the desk or extend the lighting line beyond the desk edge.



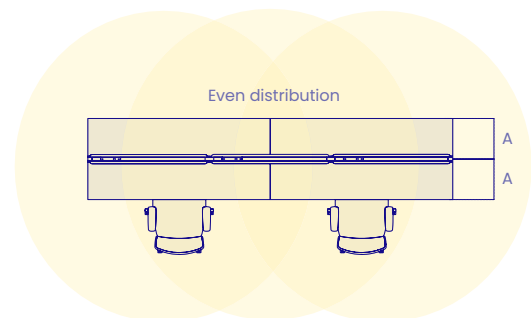
$D < 160\text{ cm}$

Desks below 160 cm in length



$170\text{ cm} < D < 320\text{ cm}$

Desks ranging in length from over 170 cm to no longer than 320 cm



$D > 320\text{ cm}$

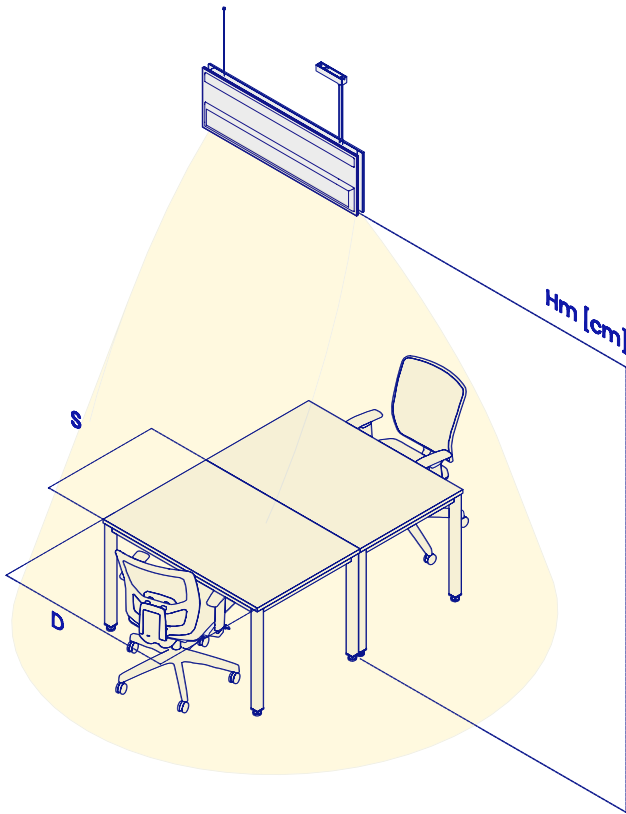
Desks longer than 320 cm in length

APPROPRIATE SELECTION OF LIGHT INTENSITY

S = 80 cm		
D [cm]	Hm [cm]	light flux [lm]
120	210	1 X 1450
140	220	1 X 1450
160	230	1 X 2000
longer	240	Linear light for (minimum) desk length x 1450

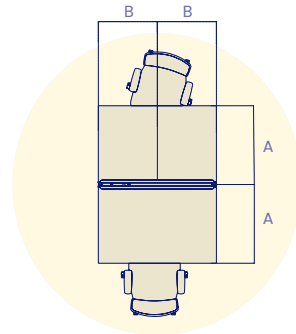
DOUBLE WORKSTATION

Correct positioning of lights according to desk sizes. Selection of appropriate lighting in compliance with the applicable lighting standard (500 lux per workstation, evenly illuminated), and ensuring a low glare index (UGR below 19)



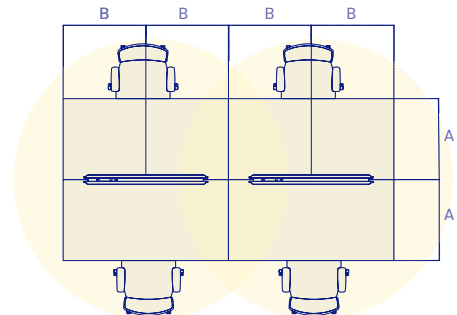
Lighting position based on desk size S [cm] x D [cm] x Hm [cm]

For longer desk setups, to ensure uniform lighting, it is advisable to design the start and end points of the lighting fixtures in line with the desk or extend the lighting line beyond the desk edge.



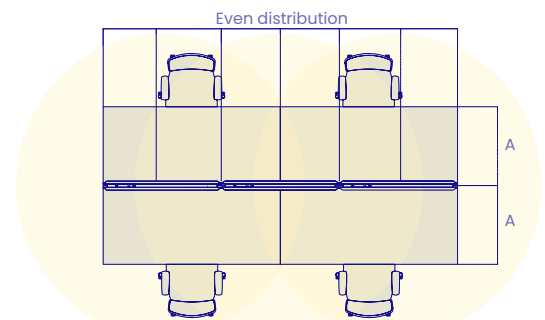
D < 160cm

Desks below 160 cm in length



170 cm < D < 320 cm

Desks ranging in length from over 170 cm to no longer than 320 cm



D > 320 cm

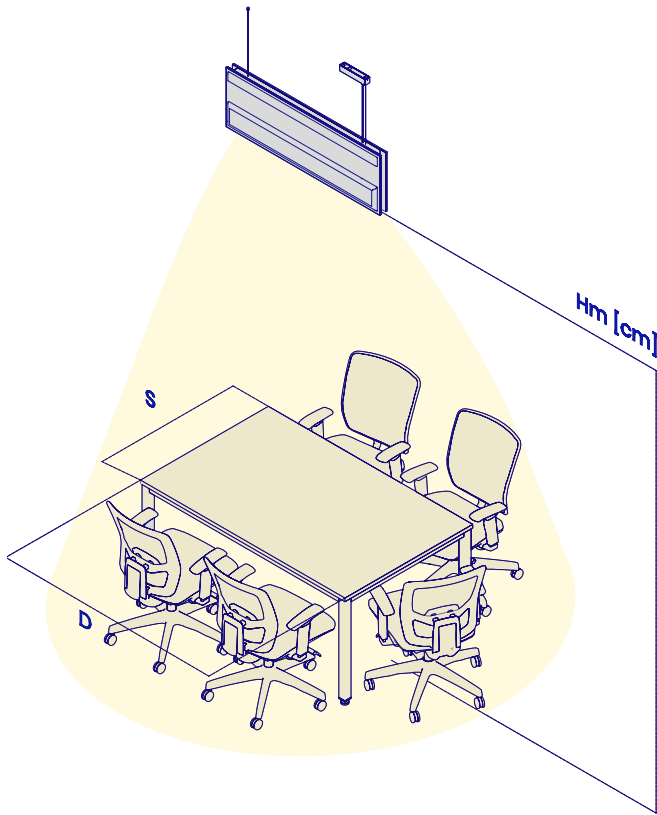
Desks longer than 320 cm in length

APPROPRIATE SELECTION OF LIGHT INTENSITY

S = 80 cm		
D [cm]	Hm [cm]	light flux [lm]
120	250	1 x 2800
140	260	1 x 3200
160	270	1 x 3200
170 - 240	250	2 x 2000
250 - 320	265	3 x 2000
longer	265	Linear light for (minimum) desk length x 2000

CONFERENCE TABLE

Correct positioning of lights according to desk sizes. Selection of appropriate lighting in compliance with the applicable lighting standard (500 lux per workstation, evenly illuminated), and ensuring a low glare index (UGR below 19).

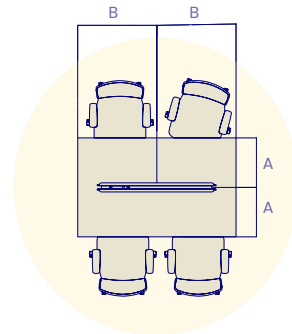


Lighting position based on desk size S [cm] x D [cm] x Hm [cm]

For longer desk setups, to ensure uniform lighting, it is advisable to design the start and end points of the lighting fixtures in line with the desk or extend the lighting line beyond the desk edge.

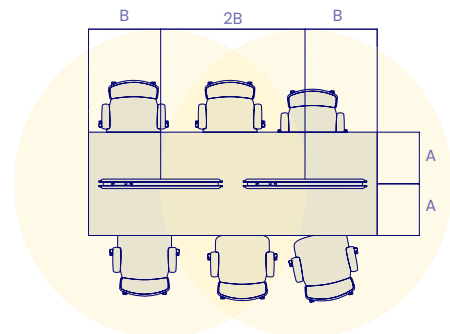
APPROPRIATE SELECTION OF LIGHT INTENSITY

S = 100 cm		
D [cm]	Hm [cm]	light flux [lm]
160	240	1 X 2000
200	260	1 X 2800
320	260	2 X 3200
400	240	3 X 1450
longer	240	Linear light for (minimum) desk length x 1450



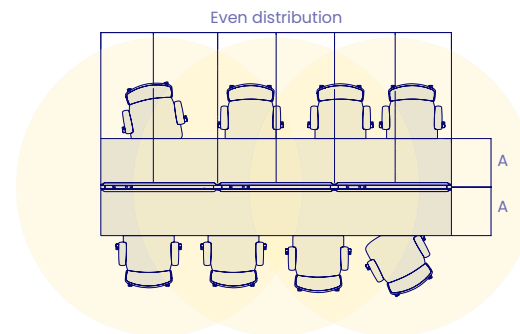
D < 160 cm

Desks below 160 cm in length



170 cm < D < 320 cm

Desks ranging in length from over 170 cm to no longer than 320 cm



D > 320 cm

Desks longer than 320 cm in length

NEED MORE INFO? CONTACT US

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