



# COVE LIGHTING

## APPLICATION AND PROPERTIES

Lumco lamps are extremely well suited for indirect cove lighting: integrated invisibly into ceiling mouldings or above a lowered ceiling, they provide separate soft atmospheric lighting. They also create a restful stream of light as there is no direct contact with the light source itself. Lumco indirect cove lighting distributes the light evenly and creates an open atmosphere that increases the sense of space. With their seamless connection and enormous freedom of form, Lumco lamps deliver totally even indirect lighting, exactly where it is needed. Lumco cove lighting can be used in both historic and modern buildings.

### Historic buildings

- Entrance halls, reception areas, banquet halls, exhibition areas, auditoriums, etc.
- Maximum lighting comfort
- By day: efficient mood lighting
- After dark: soft, dimmed atmosphere
- Integration into ornamental frames
- Even lighting of decorative ceilings

### Modern buildings

- Lift vestibules, meeting rooms, entrance halls, atriums, stairwells, auditoriums, etc.
- Maximum lighting comfort
- By day: efficient mood lighting
- After dark: soft, dimmed atmosphere
- No disruptive effects in computer screens
- Aesthetically pleasing and efficient lighting

### Tips for effective setting

**Effectively installed cove lighting automatically delivers better output from the cove and so is also better for the overall light output. A number of different factors in setting up and finishing the cove define the lighting result:**

**Shape of the reflective ceiling:** a curved ceiling delivers a higher light output than a flat one.

**Width of the cove (dimension B on the drawings):** the wider the cove, the more room there is for wiring and accessories, which helps eliminate unwanted shadows. This means that roomier cove dimensions also make it easier to fit the lamps cleanly.

**Height of the cove:** the lamps should never protrude above the edge of the cove. With deep coves, the distance between the lamps and the upper side of the cove can sometimes become too great. For this reason, with deep coves it is better to fit a reflector under the lamp. This prevents part of the light becoming lost in the cove itself.

**Distance between the upper side of the cove and the ceiling (dimension C on the drawings):** the greater this distance, the more light is able to shine out of the cove and illuminate the ceiling efficiently.

**Paintwork for the cove and the ceiling:** to achieve better output from the cove, we recommend that the inside of the cove always be painted in white. Both the reflective surface and the inside of the cove perform best when painted mat or satin white. Using gloss paint may result in the lamps themselves being reflected on the ceiling.

**Colour of the ceiling:** obtaining the lighting effect you want is also defined by the colour of the ceiling. To create a very soft and warm atmosphere, we recommend using Lumco lamps in the warmest shade of white, as well as also painting the ceiling in off-white or a light colour.

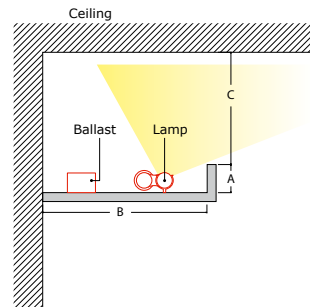
**Finish of the cove:** generally speaking, of course, having the cove finished perfectly is very important in the process of achieving an aesthetically pleasing result.

*The minimum sizes stated on the next pages are the dimensions required to be able to fit Lumco lamps with accessories properly. The optimum dimensions stated are the sizes that produce the best light output. All dimensions are stated in mm.*

*The photos of the reference projects each provide illustrations of a specific set-up. As a result, the drawings are not an exact reproduction of the photos, but are intended to depict a sample set-up.*

# C1.1

## RECESSED COFFER, LIGHTING DIRECTED CENTRALLY TOWARDS THE CEILING



### 1 row of lamps type LT5-B5

Set-up C1 delivers optimum average light levels throughout the area. For very large areas, we recommend a combination with direct lighting in the form of spots or downlights so that the area can be lit evenly.

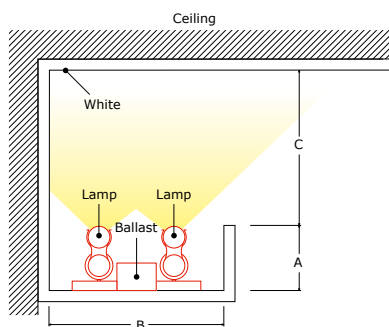
	Min	Opt.
A	35	50
B	70	150
C	100	200
R*		150

\* Radius curved ceiling

< Mariott Hotel - Ghent - Set-up C1.2  
Engineering office: Arrow

# C1.2

## RECESSED COFFER, LIGHTING DIRECTED CENTRALLY TOWARDS THE CEILING



### 2 rows of lamps type LT5-B5

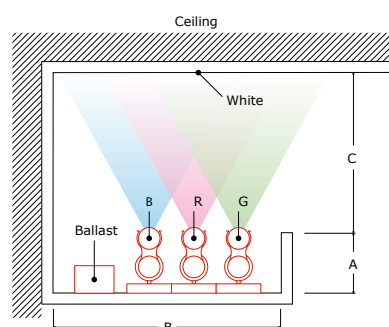
An even higher light level is achieved using 2 rows of lamps in the same colour of white. Very pleasing effects can also be obtained with a mix of 2 different colours, either 2 different shades of white (warm white and cold white), or one shade of white with another colour (e.g. white and blue or white and red).

	Min	Opt.
A	50	65
B	150	200
C	150	200
R*		200

\* Radius curved ceiling

# C1.3

## RECESSED COFFER, LIGHTING DIRECTED CENTRALLY TOWARDS THE CEILING



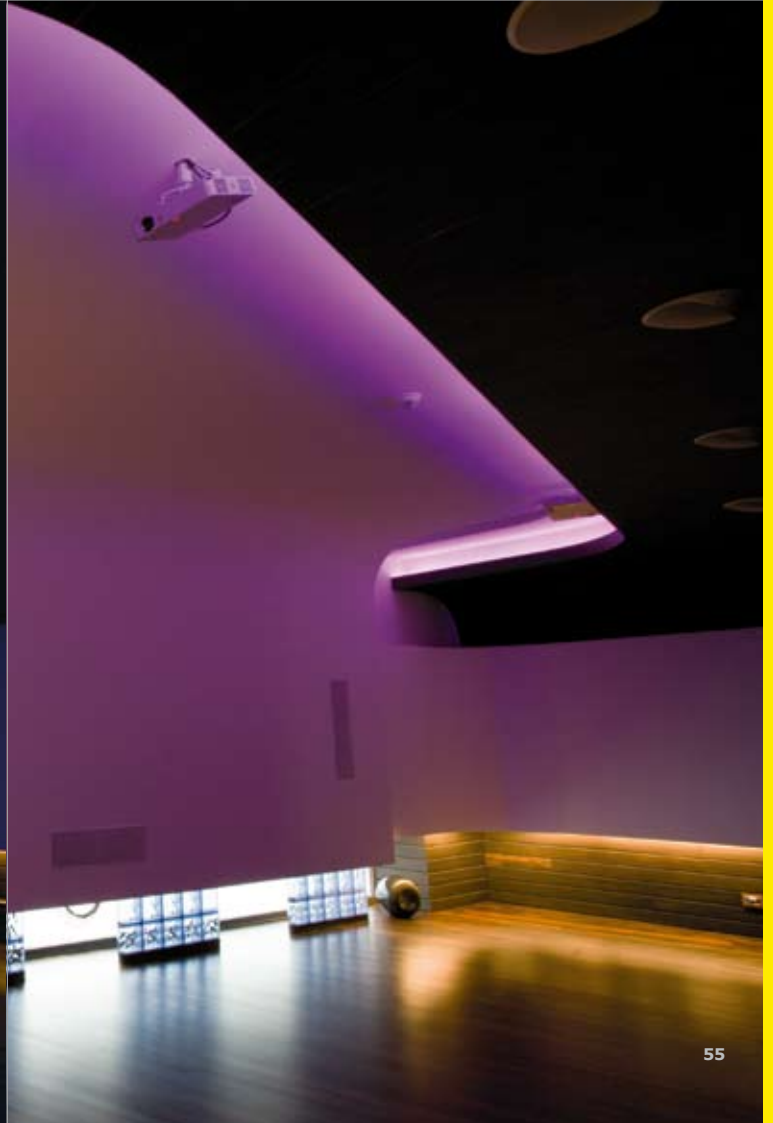
### 3 rows of lamps type LT5-B5

3 rows of lamps in the 3 primary colours (red, green and blue) can be directed through an RGB unit that mixes the colours to create a full palette of colours. 3 shades of white with an external unit can also be mixed depending on the colour temperature of the daylight. (827-2,700K + 830-3,000K + 840-4,000K)

	Min	Opt.
A	50	65
B	200	250
C	200	250
R*		250

\* Radius curved ceiling

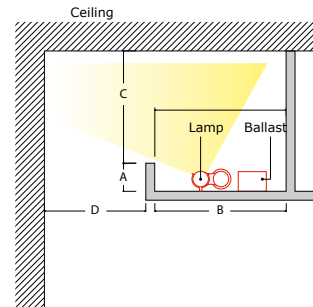
Living Tomorrow - Brussels - Set-up C1.3  
Architects: Architectenbureau Belien  
Interior Designer: Vittorio Simoni





## C2

**SET-UP WITH FLOATING CEILING,  
LIGHTING DIRECTED TOWARDS THE WALL,  
FLOATING CEILING WITH UPSTANDING EDGE**



### 1 row of lamps type LT5-B5

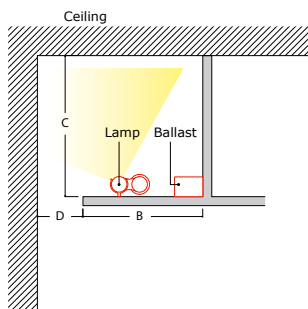
The walls or outer edge of the area are lit evenly in a very attractive manner. To achieve a high light level in the centre of the space, direct lighting can also be added, such as spots or downlights.

	Min	Opt.
A	35	50
B	70	150
C	100	200
D	75	150

< Eurocontrol – Brussels – Set-up C2  
Engineering office: W.J. & M.C. Van Campenhout

## C3

**SET-UP WITH FLOATING CEILING, LIGHTING  
DIRECTED TOWARDS THE WALL, FLOATING  
CEILING WITHOUT UPSTANDING EDGE**



### 1 row of lamps type LT5-B5

With set-up C3, the walls or outer edge of the area are lit evenly in a very attractive manner. To achieve a high light level in the centre of the space, direct lighting can also be added, such as spots or downlights.

	Min	Opt.
B	100	200
C	100	200
D	60	100

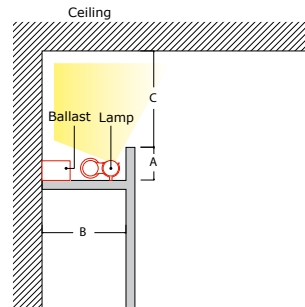
Deloitte Consultants – Brussels – Set-up C3  
Consultance and service company: DBAssociates

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## C4

### SET-UP WITH FALSE WALL AND REFLECTIVE SURFACE



#### 1 row of lamps type LT5-B5

Set-up C4 creates a lovely even light on walls and on the ceiling also, especially if it is curved. The lighting effect is strengthened even further if the top and bottom of the wall are painted in contrasting colours.

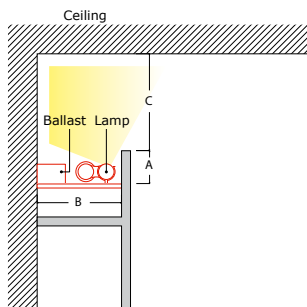
	Min	Opt.
A	35	50
B	70	150
C	100	300
R*		300

\* Radius curved ceiling

< Court House – Nivelles – Set-up C4  
Architects: bureau d'architecture NJDA-Liège

## C5

### SET-UP WITH FALSE WALL WITHOUT REFLECTIVE SURFACE



#### 1 row of lamps type LT5-B5

Set-up C5 also creates even lighting on walls and ceiling. However, in this case, the lamps are mounted on a reflector, because there is no reflective surface or because the reflective surface is too deep. This way, it is certain no light will be lost.

	Min	Opt.
A	35	50
B	70	150
C	100	300
R*		300

\* Radius curved ceiling

> Football club KSV Roeselare – Roeselare – Set-up C5  
Interior Designers: Interieurburo Vandecandelaere

