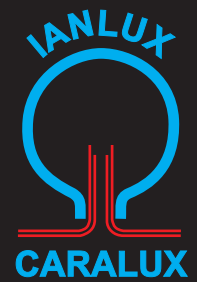


Cold Cathode



Internal illuminations

Caralux Prod. S.R.L.
Street Pechea nr. 6-6A
Bucharest district 1
Phone: 021.2329387
Fax: 021.2329307
email: office@caralux.ro
www.caralux.ro

LUMINATOR REF.	INSTALATION
	-

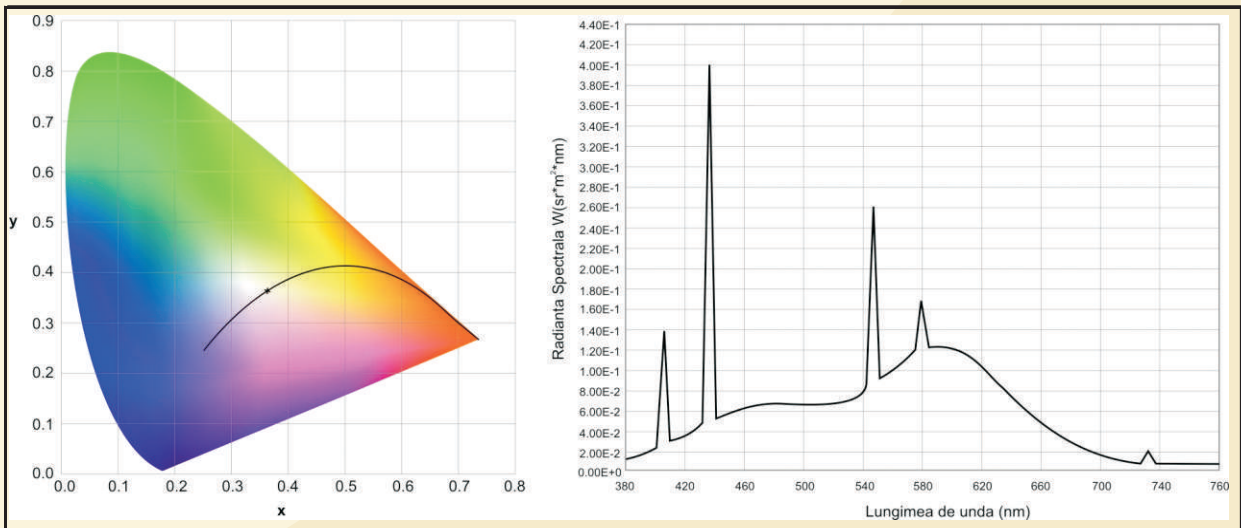
PROJECT	: -		
PROJECT NR.	: 1		
DATE	: -		
REVIZION	: A	DATE REV	

PRODUCER	: SC CARALUXPROD SRL		
ADRESS	: STR. PECHEA NR 6-6A SEC.1 BUCURESTI		
FAX	: 4.021.2329307		
TEL	: 4.021.2329387		
EMAIL	: proiectare@caralux.ro; caraluxprod@yahoo.com		
WEB	: www.caralux.ro		

LAMP FEATURES	
GLASS TYPE	: PIREX
GLASS Diameter	: 20 MM
Electrode Type	: 100 mA EXELLANCE
ELECTROD POSITION	: Turned 180 degrees UNDER TUBE
LIFE TERM	: 50.000 hrs
LAMP COLOR	: WHITE -106
LENGTH	: VARIALBE
Transformer	: Low voltage 1000 V

LAMP TYPE	
LIGHT	: WHITE -106
Coloration	: 4000 K
LIGHT INTENSITY	: 7520 cd m ²
LUMINOUS FLUX	: 919 lm/m
GAS	: ARGON

CROMATIC DATA			
x	y	u'	v'
0,3617	0,3572	0,2204	0,4898



Cold Cathode Converter

ARGOTran-260



Fixing centres:-277mm x 48mm

ARG-210-090-T-RD



ARGOTran-260

Dimmable...

- Dimmable with all types of dimmer.
- Constant current High Frequency output.
- Designed for use with Argon tubes.
- No minimum length of tubing.
- Open circuit, short circuit and overload protected.
- Lightweight and compact size.
- Terminal covers with cable clamps.
- Complies with EC EMC and Low Voltage Directives (CE).
- Designed to meet EN 61050 and EN 50107/EN61347-2-10 (Draft)
- Fitted mains input cable.
- Mode products are guaranteed for two years.

TECHNICAL DATA		ARG-210-090-T-RD
INPUT	Voltage Power Power Factor Frequency Connection	* 230 Volts $\pm 10\%$ (*115 Volts $\pm 10\%$ versions available to special order) 120 watts maximum 0.99 DC or 50/60 Hz 0.75mm ² x 1.5 metres
OUTPUT	Voltage Current S/C Current Frequency Connection	2 x 995V maximum 2 x 90mA nominal 2 x 110mA maximum 32kHz Brass terminals
EFFICIENCY		92% typical
REGULATION		5% typical
ISOLATION		4240 volt to EN 60065
TEMPERATURE	Ambient Case	-20°C to +50°C maximum. +80°C maximum
DIMENSIONS		296mm x 65mm x 42mm
FIXING CENTRES		277mm x 48mm
WEIGHT		500 grammes
PROTECTION	Open Circuit Overload	Shut down Shut down Short circuit proof
FUSING	Primary	Fusible PCB link
EMC EMISSION		EN 55015
EMC IMMUNITY		EN 61547
HARMONICS		EN 61000-3-2
SAFETY		EN 61050 EN 50107 (Draft) EN 61347-2-10 (Draft)
CASE MATERIAL		Flame retardant to UL94 - V0
CASE COLOUR		White

* 115 Volts $\pm 10\%$ versions available to special order.

DESCRIPTION

The Mode ARGOTRAN range has been designed specifically to operate argon pumped cold cathode lighting of 18-25mm in diameter. Generally, the term cold cathode lighting is used to describe concealed lighting in coffers or cornices and is often used as an indirect uplighter. Because the light source is concealed a higher brightness is required, as you are not looking directly at a tube. There are three high output models of ARGOTRAN to choose from, a single lamp unit with a 90mA output, a single lamp unit with an 180mA output and a twin lamp unit with two outputs of 90mA each. All models have an output voltage of less than 1kV and are therefore classified as Low Voltage converters. The ARGOTRAN is fully dimmable by all types of leading and trailing edge dimming systems and they have short circuit, open circuit and overload protection. Due to their compact size and lightweight, they are suitable to mount next to the tubing within a coffer or cornice making the installation very quick and easy.

INSTALLATION INSTRUCTIONS

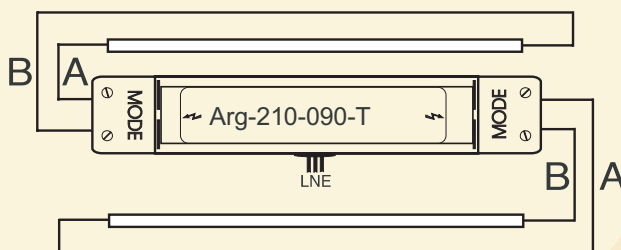
The ARGOTRAN operates at High Frequency (32kHz) and it is important that the HT lead capacitance is kept to a minimum. Observe the following:-

- 1 Leads A and B must be as short as possible and within 10% of each other in length. See maximum cable length chart below.
- 2 Use the correct type of HT cable. Do not use screened HT cable types A, D, or E. For HT wiring use either of these low capacitance cables:
 - i) Type B - Silicone with a minimum diameter of 6.5mm
 - ii) Type C - 8.0 mm PVC sheathed silicone with a minimum silicone diameter of 6.5 mm.
 - iii) Type H - 6.5 mm PVC sheathed polyethylene with a minimum polyethylene diameter of 3.0 mm.
- 3 Separate all HT cables and tubes of different circuits by at least 30 mm.
- 4 Observe the maximum total tube length as specified in the loading charts below.

The Mode ARGOTRAN should be mounted in a well ventilated position and should not be covered by insulation materials. It can be safely mounted onto any metal surface. Ensure that all cables are secured by the cable clamps and that the terminal covers are correctly fitted.

Installation should be in accordance with the relevant National Wiring Regulations and other applicable Regulations. Compliance with the EC EMC and Low Voltage Directives may be invalidated if not used or installed according to the published specification.

CONNECTION



H.T. (OUTPUT) CABLE LENGTHS

MAXIMUM CABLE LENGTH: A + B (see connection diagram)	
MOUNTING SURFACE	ARG-210-90-T
Mounted directly onto Metal. Use only Type C cable.	12m (per output)
Mounted directly onto Brick or Concrete	15m (per output)
Mounted on 35 mm supports above any surface	30m (per output)

LOADING CHARTS (120VA)

All tubes must be connected up to the total maximum tube length as detailed below. All tube lengths are in metres and are measured between electrodes.

(Per Output for model 210-90)

MODEL 210-90	ARGON GAS (BLUE)				
	N° OF TUBES				
ømm	1	2	3	4	5
	Total length (metres)				
25	2.3	2.2	2.1	2.0	1.9
20	2.1	2.0	1.9	1.8	1.7
18	1.8	1.7	1.6	1.5	1.4

☑ Complies with EC EMC and Low Voltage Directives.

Ⓢ Independent convertor.



High Output Voltage

Low Voltage Cold Cathode

The outdoor illumination , but especially the indoor illumination , has been always a challenge for the architects, who didn't have the new technology of lighting.

For example the illumination of the very elaborated gorges and of the overstrained translucent ceiling, because in the past few years a special attention has been conferred in this direction .

The company SC CARALUX PROD SRL helps the architects , and not only them,with the cold cathode illumination system.

Maybe you are asking yourself why these tubes are more special than the usual neon-lamps and why you should choose this new system .

For a very simple reason : first of all these tubes have a length between 200 – 3150 mm, but what's making them unique is their property to be bended, to take the gorge's shape.

The result of using these tubes is a continuous appearance, without interruption at the tube's extremities , a perfect illumination, without shadows – the dream of every architect.

Their energy consumption is very little, only 22 W / meter .
They can be dimmed, resulting the desired intensity.
We can produce a large range of colours, till 15 different hues of white (from the cold white to the incandescent one)

Technical details

Low Voltage cold cathode is eminently suitable for all forms of architectural features particularly when a continuous appearance and long life is required.

The light it provides is smooth and continuous and eliminates unattractive hot spots and shadow gaps. It can be installed in every variety of buildings ranging from small retail units and bars to vast shopping centres and hotels.

Starting options

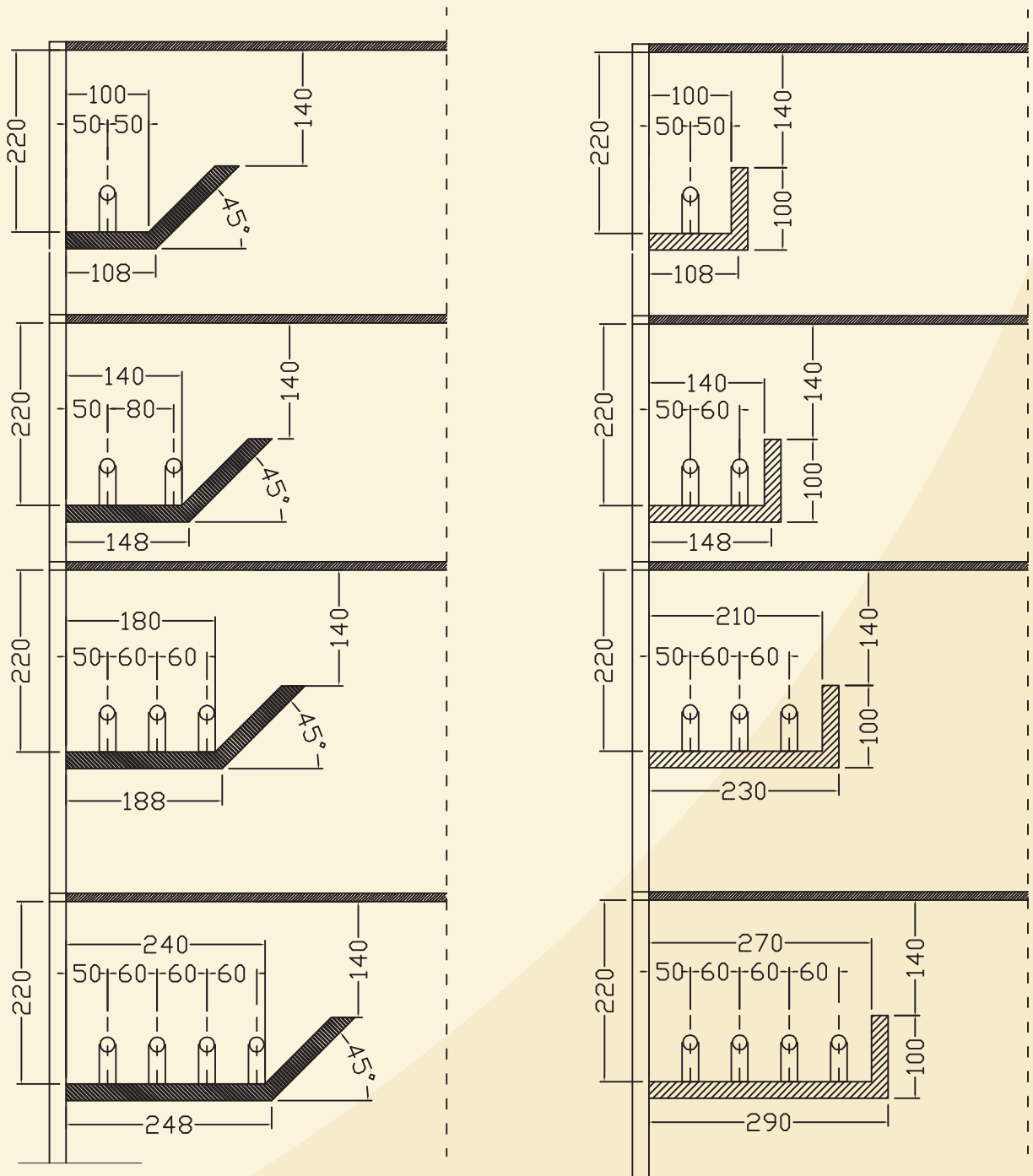
- instantaneous starting
- can be realized by :
 1. remote
 2. from a bracket on the wall
 3. from a DMX desk
- possibility of increasing and decreasing the intensity of light between 0% and 100%
- No fireman's switch required

Tube

- long life tubing of 50000 burning hours
- Tube consumption:
 - for Φ 23-25 the consumption is 15 W per meter with the 25 mA transformer and 20 W per meter with the 60 mA transformer.
 - for Φ 18-19 the consumption is 17 W per meter with the 25 mA transformer and 21 W per meter with the 60 mA transformer.
- the length can vary between 200 – 3150 mm
- possibility of building any shape, maintaining the continuous appearance
- possibility of choosing any colour , for white can be realized 10 different hues from incandescent white 2700 k to cold white 8000 k
- lamp intensity 1300 lumen / meter
- it's part of the newest generation of glass called PIREX with the following properties :
 - 100 % ecologic
 - high mechanical properties towards lead glass
 - bigger warranty
 - equipped with electrodes excellence of the highest quality, with mechanical capture, which eliminates any imperfect connection between the electrode and the high voltage cable , resulting an increased safety

Technical details

Dimension and type covers



Internal illumination

We are showing you the overstrained translucent ceiling with the RGB illumination, system that offers the possibility of choosing any hue from the colour spectrum .The system is connected to a controller operated by remote.



Hotel Ramada Bucharest
translucent ceiling RGB system



Hotel Ramada Bucharest
translucent ceiling RGB system



Hotel Ramada Bucharest
translucent ceiling RGB system



Hotel Ramada Bucharest
translucent ceiling RGB system



Hotel Ramada Bucharest
translucent ceiling RGB system



Hotel Ramada Bucharest
translucent ceiling RGB system

Internal illumination



Showroom Caralux Bucharest
RGB Gorge system



Showroom Caralux Bucharest
RGB Gorge system



Showroom Caralux Bucharest
RGB Gorge system



Showroom Caralux Bucharest
RGB Gorge system



Showroom Caralux Bucharest
RGB Gorge system



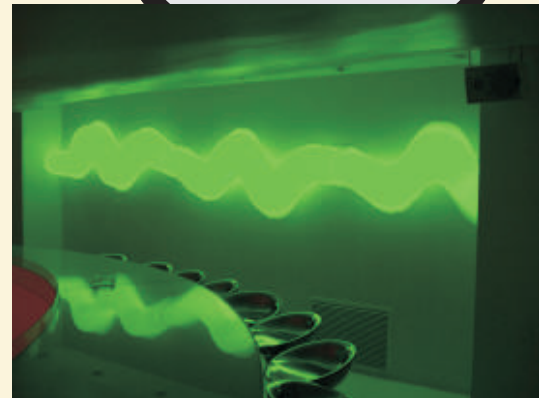
Showroom Caralux Bucharest
RGB Gorge system

Internal illumination

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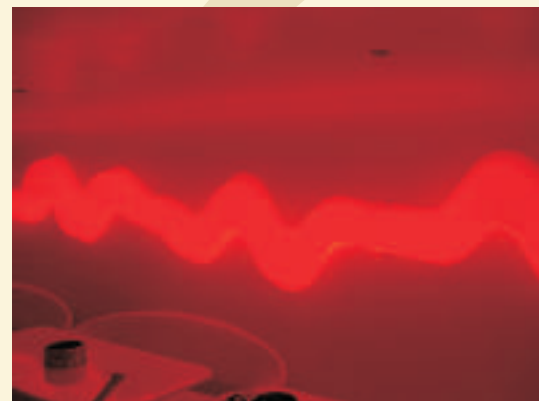
Private club Embrio - Bucharest
Translucent ceiling RGB system



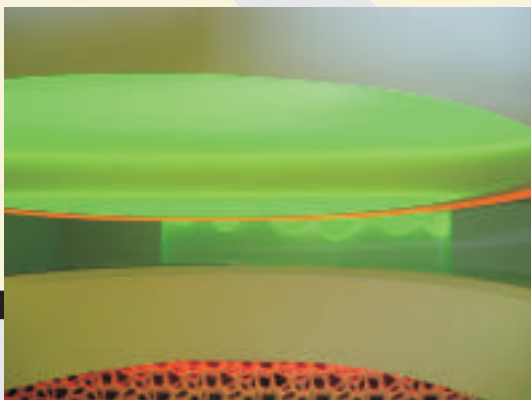
Private club Embrio - Bucharest
Translucent form with RGB system



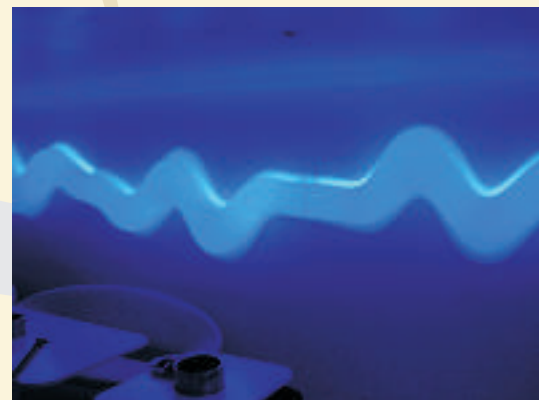
Private club Embrio - Bucharest
Translucent ceiling RGB system



Private club Embrio - Bucharest
Translucent form with RGB system



Private club Embrio - Bucharest
Translucent ceiling RGB system



Private club Embrio - Bucharest
Translucent form with RGB system

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Private residence - Living



Private residence - Living



Private residence - Living



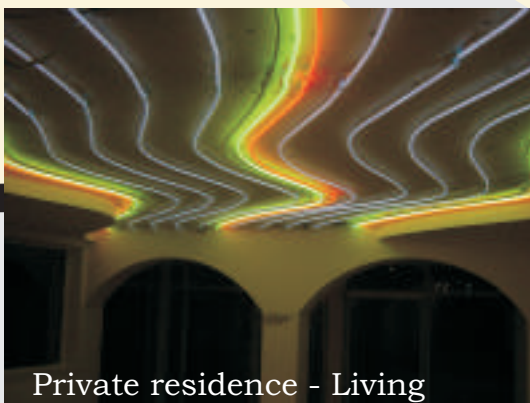
Private residence - Living



Private residence - Living



Private residence - Living



Private residence - Living



Private residence - Living

Internal illumination



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface

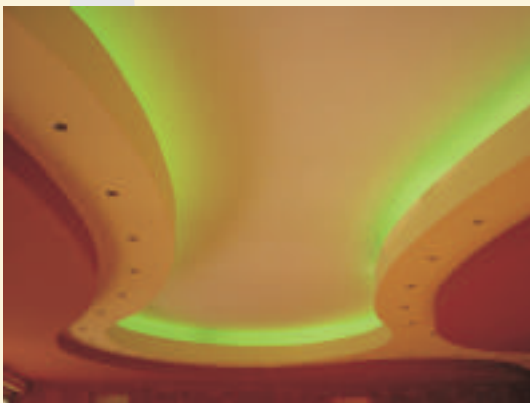
Internal illumination



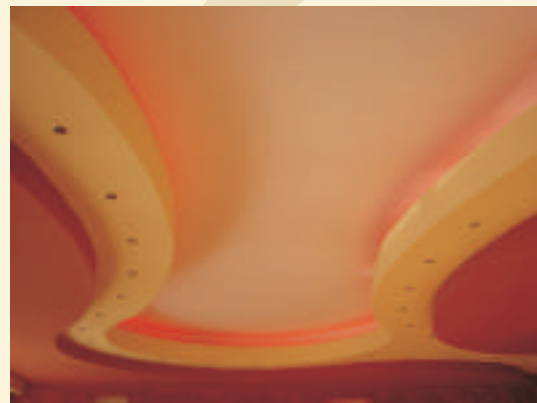
Private residence
RGB System



Private residence
one colour, with dimmable interface



Private residence
RGB System



Private residence
RGB System



Private residence
RGB System



Private residence
RGB System

Internal illumination



Private residence
RGB System



Private residence
RGB System



Private residence
RGB System



Private residence
RGB System



Private residence
RGB System



Private residence
RGB System

Internal illumination



Romtelecom headquarters



Romtelecom headquarters



Allianz headquarters



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface



Allianz headquarters

Internal illumination



Private residence
one colour, with dimmable interface



Private club Alexandria



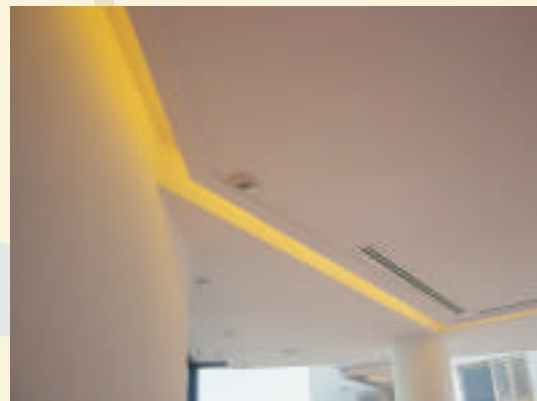
Admiral Club



Hotel Howard Jonson Bucharest



Admiral Club



Admiral Club

Internal illumination



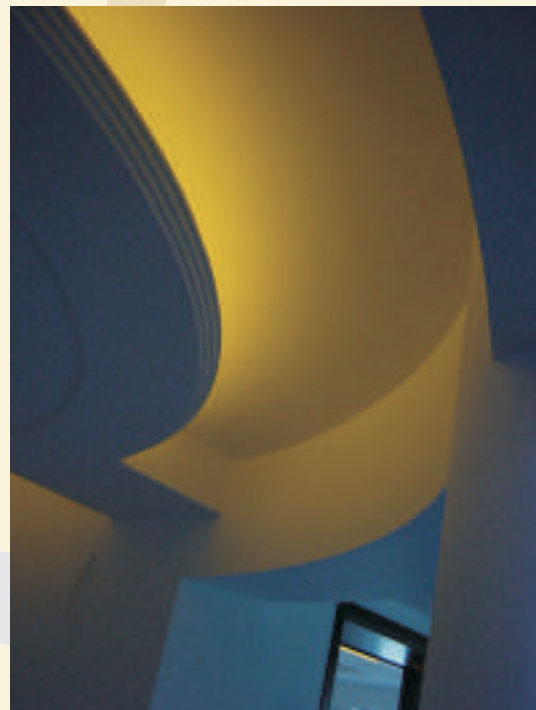
Hotel Howard Jonson Bucharest



Hotel Howard Jonson Bucharest



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface

Internal illumination



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface



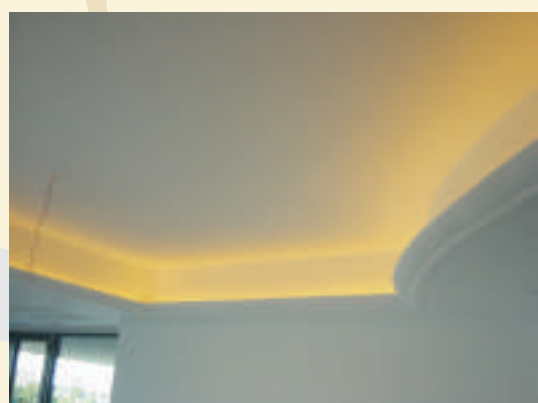
Illuminates stage



Illuminates stage



Private residence
one colour, with dimmable interface



Private residence
one colour, with dimmable interface

Internal illumination

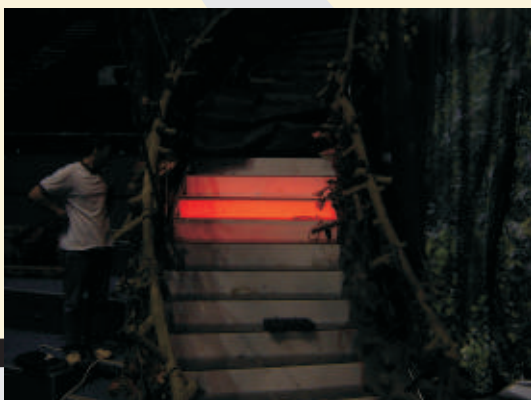
We are showing you the overstrained translucent ceiling with the RGB illumination, system that offers the possibility of choosing any hue from the colour spectrum .The system is connected to a controller operated by remote.



iluminated stairs
National Circus Bucharest



iluminated stairs
National Circus Bucharest



iluminated stairs
National Circus Bucharest



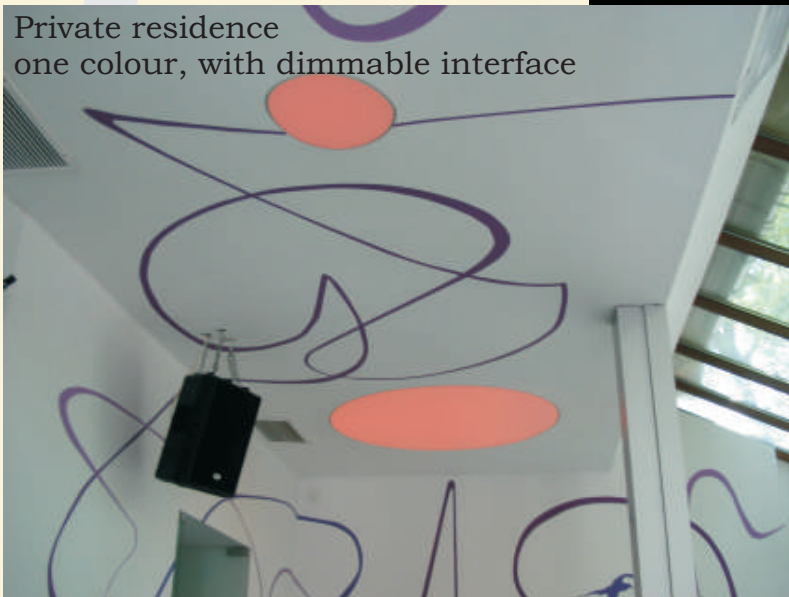
iluminated stairs
National Circus Bucharest

Internal illumination

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Private residence
one colour, with dimmable interface



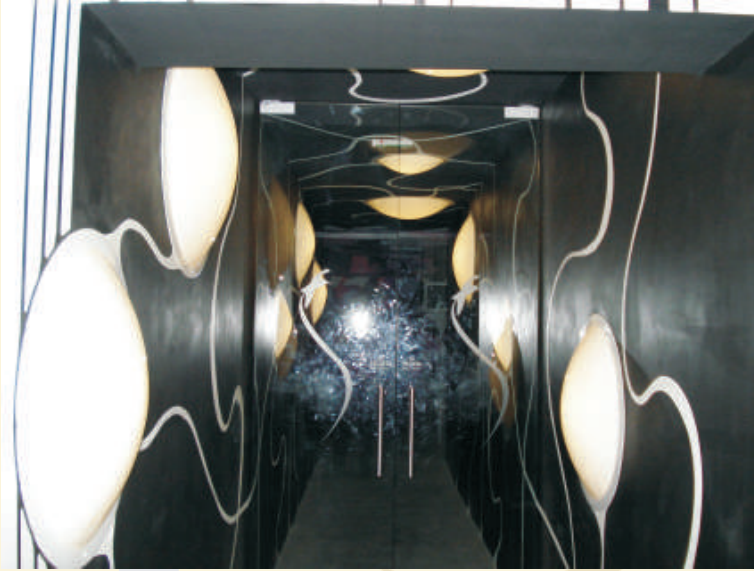
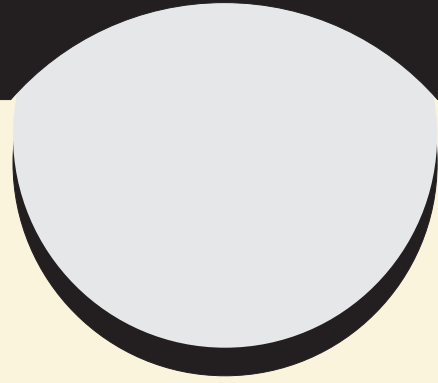
RGB system controld by DMX
Privat Club

RGB system controld by DMX
Privat Club



RGB system controld by DMX
Privat Club

Internal illumination



Internal illumination



Admiral Club



RGB system control by DMX
Embrio Club



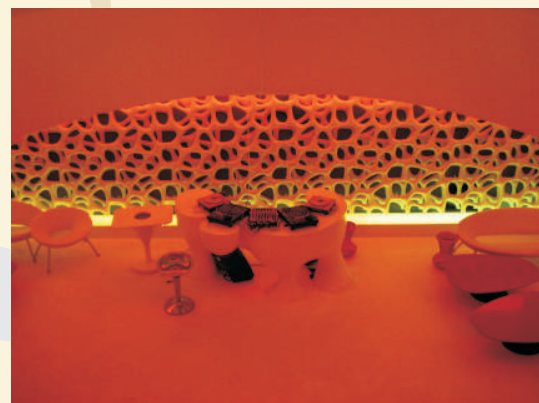
RGB system control by DMX
Embrio Club



one colour control by DMX
Embrio Club



Admiral Club



RGB system control by DMX
Embrio Club

Internal illumination



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