



Luminaires

**Healthcare and clean
rooms application**

CATALOGUE

Beghelli

Dear customers,

Let us introduce you our new catalog, which includes luminaires designed especially for health facilities and clean rooms. Our goal was to create a catalog, where you will find a modern, high quality luminaires, manufactured by using latest technology in lighting so that it is possible to create a comprehensive solution to the lighting project Beghelli-Elplast. We strive to offer not only luminaires, but also to create a mutual co-operation partnership, enjoying facilities Beghelli multinational company, one of the leading lighting manufacturers in Europe.

This catalog follows the General Catalogue, where you can find a complete portfolio of our production. There is also available catalog focused specifically on industrial applications, where are introduced luminaires with a high degree of protection, designed into very demanding applications. Individual luminaires are designed to meet the high demands of individual applications, with emphasis on mechanical design and safety. Product's portfolio also includes emergency lighting catalog focusing on Logica system for monitoring and managing emergency luminaires. Catalog Healthcare and clean rooms application represents a comprehensive range of luminaires, which was developed to maximize optical efficiency and high energy savings.

Clean rooms

Clean rooms are rooms with a defined and controlled clean air. The degree of purity is given as a number of particles with defined size in one cubic meter. Cleanroom classification is specified in the standard EN ISO 14644-1: Cleanrooms and associated controlled environment – Part 1: Classification of air cleanliness. Class purity is chosen according to the demands and requirements of projected usage. Cleanrooms are separated from the surrounding environment by building elements and the supply air must be filtered and modified using a special air conditioning units. For perfect clean separation from the surrounding area is necessary to ensure constant internal pressure of about 15 Pa.

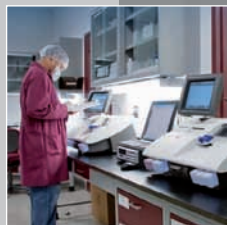
Luminaires used in clean areas must meet the following requirements:

- Recessed luminaires must not undermine the ceiling tightness and cause air leakage and reduction of air pressure. It must therefore have at least IP54 degree of protection.
- Even after removing the optical cover (for recessed luminaires) must be provided a clean separation from the surrounding area.
- It must be ensured easy maintenance and cleaning.
- The material in luminaires must withstand used disinfectants.
- In operation, maintenance or cleaning of luminaires must not be any contamination of the environment.

Beghelli-Elplast luminaires marked with CA meet the above mentioned requirements and are suitable for use in harsh environments of clean rooms.



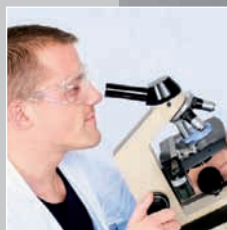
Hospitals and clinics



Laboratories and test rooms



Pharmaceutical companies



Research centers and institutes



Electronic components producers



Special chemical operation

Beghelli



Luminaires for health facilities and clean rooms



Hospitals contain many diverse areas such as entrance areas, reception desks, offices, wards, emergency income, surgery, central sterilization, x-ray department, operating theaters and intensive care units. Each of these sites have got very specific requirements for lighting, which requires the exact design of lighting system and also the use of high quality luminaires.

Each hospital also has high energy costs, particularly associated with heating, cooling, ventilation and lighting. The use of dimmable electronic ballasts and intelligent lighting control systems helps reduce power consumption, the overall lighting. The Beghelli-Elplast, Inc. provides professional lighting to ensure the health facilities in areas optimal solution in terms of illuminance, visual comfort and energy savings.

The above schematic perspective shows individual departments within the hospital routine and points out areas that require high quality lighting in accordance with the latest medical technologies.

Beghelli

Optimal lighting solutions for all areas of hospitals



- 1 – The entrance areas
- 2 – Cafe, Restaurant
- 3 – Conference Room
- 4 – Office
- 5 – Surgery
- 6 – Waiting room
- 7 – Room
- 8 – The intensive care unit
- 9 – Operating room
- 10 – Laboratory

Entrances, reception desks, corridors and restrooms

Operating rooms, intensive care units and surgery

Offices, hospital rooms and waiting rooms

Technical background

Emergency lighting

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Luna 06-104



Castelo 66-054



Dorado 82-00



Dorado 82-02



Crater 33-494

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Aries 35-02



Aries 35-03



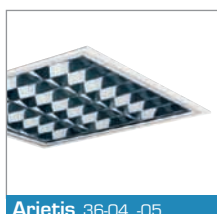
Aries 35-00



Arietis 36-02



Arietis 36-03



Arietis 36-04, -05



Arietis 36-06



Arietis 36-07

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Canes 09-01



Canes 09-04



Virgo 30-02



Virgo 30-03



Lyra 32-02



Lyra 32-03



Carella 34-02, -04



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Carella LED



Gemma/Virgo Germ

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Leader BS110



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Formula 65 LED



Logica LED



Pluraluce LED



Indica LED 20/30 m



EcoLED Bandiera





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Castelo 66-054 8



Dorado 82-00 10



Dorado 82-02 10



Crater 33-494 12

Entrances, reception desks,
corridors and restrooms

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Luna



Material:

- body: thermoplastic
- color: white
- reflector: steel sheet
- diffuser: opaline

Degree of protection: IP65

Rated voltage: 230 V / 50 Hz

Control gear: low loss ballast or electronic ballast, dimmable ballast and emergency module by request

Mounting: on ceiling or wall

Application: vestibules, reception desks, corridors and stairways, entry halls and entrances to buildings

Castelo



Material:

- glass: blowing by hand three-layers
- color: white opaline
- body: steel sheet white painted
- collar: made by steel white coated, brass, chrome painted or stainless steel plate

Degree of protection: IP20 / IP44

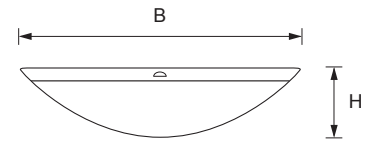
Rated voltage: 230 V / 50 Hz

Control gear: low loss ballast or electronic ballast
Some versions can be equipped with emergency module by request.

Mounting: on ceiling or wall

Application: corridors and stairways, entrance areas and reception desks

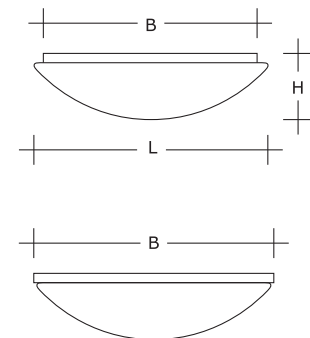
06-104 Luna | Ceiling and wall luminaires IP65



Code	Power	Lamp	Cap	ØBxH (mm)	Kg
06-104/118/□	1x18 W	compact fl. lamp	G24d(q)-2	335x130	1.4
06-104/218/□	2x18 W	compact fl. lamp	G24d(q)-2	335x130	1.7
06-104/126/□	1x26 W	compact fl. lamp	G24d(q)-3	335x130	1.5
06-104/226/□	2x26 W	compact fl. lamp	G24d(q)-3	335x130	2.0

□ - E (low loss ballast)
- C (electronic ballast)

66-054 Castelo | Ceiling and wall luminaires



	Code IP20	Code IP44	Power	Cap	LxBxH (mm)	Kg
without collar	66-054/113/□	-	1x13 W	G24d(q)-1	250x190x115	1.6
	66-054/213/□	66-454/213/C	2x13 W	G24d(q)-1	280x240x125	2.2
	66-054/218/□	66-454/218/□	2x18 W	G24d(q)-2	360x290x130	3.2
	66-054/226/□	66-454/226/C	2x26 W	G24d(q)-3	415x370x125	4.4
with collar	66-054/113/□+++□	-	1x13 W	G24d(q)-1	250x260x120	1.6
	66-054/213/□+++□	66-454/213/C+++□	2x13 W	G24d(q)-1	280x290x125	2.4
	66-054/218/□+++□	66-454/218/□+++□	2x18 W	G24d(q)-2	360x370x130	3.5
	66-054/226/□+++□	66-454/226/C+++□	2x26 W	G24d(q)-3	415x430x125	3.8

□ - C (electronic ballast)
- D (low loss ballast, non-compensated)

□ - color of collar:
- 0 (white painted), - C (chrome coated), - M (brass coated),
- N (stainless steel)

KARTOTÉKA

Dorado



IP20

IP44

IP54

CA

TC-D

TC-DEL



230 V
50 Hz



Material:

- body: steel sheet finished by powder technology varnishing
- reflector: polished aluminium sheet

Degree of protection: IP20, IP44, IP54

Rated voltage: 230 V / 50 Hz

Control gear: low loss ballast or electronic ballast, emergency module by request

Mounting: recessed mounting in panel ceilings with maximum width 50 mm (82-00), 40 mm (82-02)

Accessories: (must be ordered separately)

82-00

- 99-830 – turbo louvre
- 99-831 – cross louvre
- 99-832 – glass cover IP44
- 99-844 – frosted decorative glass 5 mm
- 99-906 – glass cover IP54

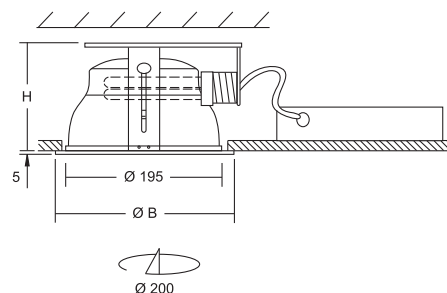
82-02

- 99-839 – turbo louvre
- 99-833 – cross louvre
- 99-895 – frosted decorative glass 5 mm
- 99-900 – glass cover IP54

Application: reception desks, corridors and stairways, restaurants

- For turbo louvre 99-830, 99-839 and cross louvre 99-831, 99-833 to be used standard version of downlight (without indication D).
- For decorative glass to be used downlight version with indication D.
- For glass cover IP44 to be used downlight version with indication H.
- For glass cover IP54 to be used downlight version with indication K.

82-00 | Downlights



Code	Power	Lamp	Cap	ØBxH (mm)	Kg
82-004/113/□++□	1x13 W	compact fl. lamp	G24d(q)-1	220x140	1.6
82-004/118/□++□	1x18 W	compact fl. lamp	G24d(q)-2	220x140	1.6
82-004/126/□++□	1x26 W	compact fl. lamp	G24d(q)-3	220x140	1.8
82-004/213/□++□	2x13 W	compact fl. lamp	G24d(q)-1	220x140	1.9
82-004/218/□++□	2x18 W	compact fl. lamp	G24d(q)-2	220x140	1.9
82-004/226/□++□	2x26 W	compact fl. lamp	G24d(q)-3	220x140	2.1

□ - E (low loss ballast
- parallel compensation)
- C (electronic ballast)

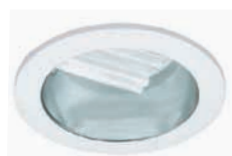
□ - (standard version)
- D - version with mounting holes for frosted decorative glass 5 mm (code 99-844)
- H - version adapted for mounting the glass cover IP44 (code 99-832)
- K - version adapted for mounting the glass cover IP54 (code 99-906)



99-830



99-831



99-832

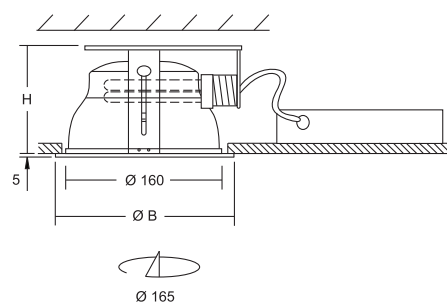


99-844



99-906

82-02 | Downlights



Code	Power	Lamp	Cap	ØBxH (mm)	Kg
82-024/113/□++□	1x13 W	compact fl. lamp	G24d(q)-1	185x115	1.4
82-024/118/□++□	1x18 W	compact fl. lamp	G24d(q)-2	185x115	1.4
82-024/126/□++□	1x26 W	compact fl. lamp	G24d(q)-3	185x115	1.5
82-024/213/□++□	2x13 W	compact fl. lamp	G24d(q)-1	185x115	1.7
82-024/218/□++□	2x18 W	compact fl. lamp	G24d(q)-2	185x115	1.7

□ - E (low loss ballast
- parallel compensation)
- C (electronic ballast)

□ - (standard version)
- D - version with mounting holes for frosted decorative glass 5 mm (code 99-895)
- K - version adapted for mounting the glass cover IP54 (code 99-900)



99-839



99-833



99-895



99-900

Crater



IP20

IP44

TC-D

TC-DEL

TC-TEL



230 V
50 Hz
CE

Material:

- body: plastic
- color: white RAL 9003
- reflector: polycarbonate, coating with aluminium
- louvre: anti-glare turbo louvre
- cover: clear, opaline or semi-matted plastic cover (IP44)

Degree of protection: IP20 / IP44

Rated voltage: 230 V / 50 Hz

Control gear: low loss ballast or electronic ballast, dimmable ballast by request

The luminaires are offered also in emergency version (in case of power failure only one lamp works)

Mounting: recessed mounting in panel ceilings with maximum width 20 mm

Accessories: (must be ordered separately)

99-877 - sanded glass 230 mm

99-878 - clear polycarbonate cover IP44

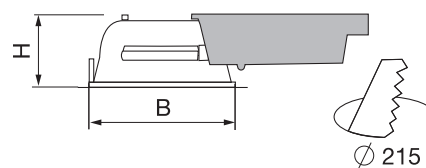
99-879 - semi-matted polycarbonate cover IP44

99-880 - opaline polycarbonate cover IP44

99-881 - anti-glare turbo louvre

Application: reception desks, corridors and stairways, vestibules, restaurants

33-494 | Downlights



Code	Power	Lamp	Cap	Hole cut out (mm)	BxH (mm)	Kg
33-494/113/1++4	1x13 W	compact fl. lamp	G24d(q)-1	Ø 215	230x105	1.0
33-494/118/1++4	1x18 W	compact fl. lamp	G24d(q)-2	Ø 215	230x105	1.1
33-494/126/E++4	1x26 W	compact fl. lamp	G24d-3	Ø 215	230x105	1.3
33-494/142/M++4	1x26/32/42 W	compact fl. lamp	GX24q-4/3	Ø 215	230x105	1.0
33-494/213/1++4	2x13 W	compact fl. lamp	G24d(q)-1	Ø 215	230x105	1.2
33-494/218/1++4	2x18 W	compact fl. lamp	G24d(q)-2	Ø 215	230x105	1.4
33-494/226/E++4	2x26 W	compact fl. lamp	G24d-3	Ø 215	230x105	1.8
33-494/242/M++4	2x26/32/42 W	compact fl. lamp	GX24q-4/3	Ø 215	230x105	1.0

1 - E (low loss ballast, parallel compensation)
 - C (electronic ballast)
 - M (electronic ballast – 1x26/32/42 W or
 2x26/32/42 W)

4 - (opened reflector)
 - D – version with mounting holes for accessories
 (covers and turbo louvre)

NOTE: Plastic covers can not be used for version 2x32 W and 2x42 W.



99-877



99-878



99-879



99-880



99-881





Operating rooms,
intensive care units
and surgery

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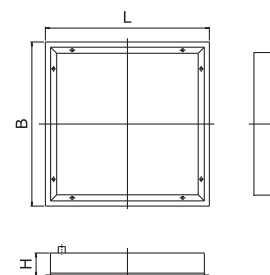
Aries

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- cover: prismatic

Degree of protection: IP54**Rated voltage:** 230 V / 50 Hz**Control gear:** low loss ballast or electronic ballast, dimmable ballast by request, the luminaires are offered also in emergency version**Mounting:** inlay mounting into ceiling systems M600 (35-02), universal mounting in panel ceilings M625 and in plaster ceilings (35-03)**Accessories:** steel holders (are supplied with luminaire 35-03)**Application:** operating theaters, hospitals, laboratories, precincts demanding high sanitary codes, precincts with high rate of dustiness and humidity

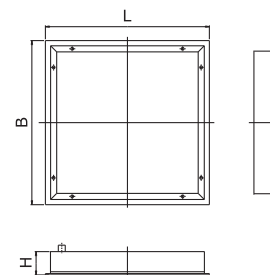
35-02 | Recessed luminaires IP54 - ceiling systems M600, inlay mounting



Code	Power	Lamp	Cap	LxBxH (mm)	Module	Kg
35-023/236/X	2x36 W	T8 lamp	G13	1.197x297x110	M600	4.7
35-023/418/X	4x18 W	T8 lamp	G13	595x595x122	M600	8.2
35-024/336/X	3x36 W	compact fl. lamp	2G11	595x595x122	M600	7.8
35-024/355/CX	3x55 W	compact fl. lamp	2G11	595x595x122	M600	7.9
35-023/128/CX	1x28 W	T5 lamp	G5	1.197x297x110	M600	4.4
35-023/135/CX	1x35 W	T5 lamp	G5	1.497x297x110	M600	4.7
35-023/228/CX	2x28 W	T5 lamp	G5	1.197x297x100	M600	4.9
35-023/235/CX	2x35 W	T5 lamp	G5	1.497x297x110	M600	6.5
35-023/414/CX	4x14 W	T5 lamp	G5	595x595x122	M600	8.2

- E (low loss ballast), - C (electronic ballast)

35-03 | Recessed luminaires IP54 - universal mounting M625 and plaster ceilings



Code	Power	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
35-033/136/X	1x36 W	T8 lamp	G13	1.247x311x95	1.215x297	M625	4.4
35-033/158/X	1x58 W	T8 lamp	G13	1.547x311x95	1.515x297	M625	4.7
35-033/236/X	2x36 W	T8 lamp	G13	1.247x311x95	1.215x297	M625	4.9
35-033/258/X	2x58 W	T8 lamp	G13	1.547x311x95	1.515x297	M625	5.4
35-033/418/X	4x18 W	T8 lamp	G13	622x622x95	591x608	M625	8.4
35-034/336/X	3x36 W	compact fl. lamp	2G11	622x622x95	591x608	M625	7.9
35-034/355/CX	3x55 W	compact fl. lamp	2G11	622x622x95	591x608	M625	8.1
35-033/128/CX	1x28 W	T5 lamp	G5	1.247x311x95	1.215x297	M625	4.4
35-033/135/CX	1x35 W	T5 lamp	G5	1.547x311x95	1.515x297	M625	4.7
35-033/228/CX	2x28 W	T5 lamp	G5	1.247x311x95	1.215x297	M625	4.9
35-033/235/CX	2x35 W	T5 lamp	G5	1.547x311x95	1.515x297	M625	5.4
35-033/414/CX	4x14 W	T5 lamp	G5	622x622x95	591x608	M625	8.4

- E (low loss ballast), - C (electronic ballast)

Aries



Material:

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- cover: prismatic or opaline

Degree of protection: IP54/20 - IP54 (frame to the body), IP20 (body of luminaire)

Rated voltage: 230 V / 50 Hz

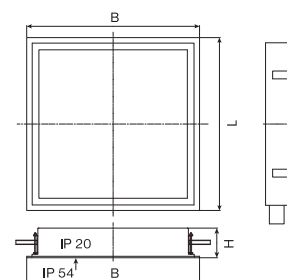
Control gear: electronic ballast, dimmable ballast by request, the luminaires are offered also in emergency version

Mounting: universal mounting into ceiling systems M600 and in plaster ceilings

Accessories: steel holders (are supplied with the luminaire)

Application: precincts demanding high sanitary codes, precincts with high rate of dustiness and humidity

35-00 | Recessed luminaires IP54 - ceiling systems M600 and plaster ceilings



Code	Power	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
35-003/236/CX	2x36 W	T8 lamp	G13	1.197x297x107	1.174x267	M600	4.3
35-003/236/CZ	2x36 W	T8 lamp	G13	1.197x297x107	1.174x267	M600	4.3
35-003/418/CX	4x18 W	T8 lamp	G13	595x595x107	572x565	M600	4.5
35-003/418/CZ	4x18 W	T8 lamp	G13	595x595x107	572x565	M600	4.5
35-004/336/CX	3x36 W	compact fl. lamp	2G11	595x595x107	565x565	M600	4.5
35-004/336/CZ	3x36 W	compact fl. lamp	2G11	595x595x107	565x565	M600	4.5
35-004/355/CX	3x55 W	compact fl. lamp	2G11	595x595x107	565x565	M600	4.5
35-004/355/CZ	3x55 W	compact fl. lamp	2G11	595x595x107	565x565	M600	4.5

- X (prismatic cover), - Z (opaline cover)

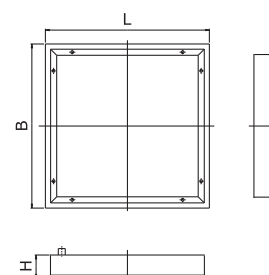
Arietis

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- cover: prismatic

Degree of protection: IP65**Rated voltage:** 230 V / 50 Hz**Control gear:** low loss ballast or electronic ballast, dimmable ballast by request, the luminaires are offered also in emergency version**Mounting:** inlay mounting into ceiling systems M600 (36-02), universal mounting in panel ceilings M625 and in plaster ceilings (36-03)**Accessories:** steel holders (are supplied with luminaire 36-03)**Application:** operating theaters, hospitals, laboratories, precincts demanding high sanitary codes, precincts with high rate of dustiness and humidity

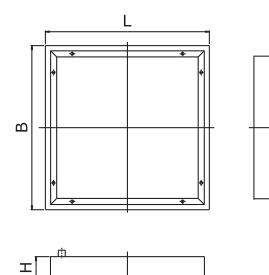
36-02 | Recessed luminaires IP65 - ceiling systems M600, inlay mounting



Code	Power	Lamp	Cap	LxBxH (mm)	Module	Kg
36-023/236/□X	2x36 W	T8 lamp	G13	1.197x297x110	M600	7.5
36-023/418/□X	4x18 W	T8 lamp	G13	595x595x122	M600	8.7
36-024/336/□X	3x36 W	compact fl. lamp	2G11	595x595x122	M600	8.0
36-024/355/CX	3x55 W	compact fl. lamp	2G11	595x595x122	M600	8.0
36-023/128/CX	1x28 W	T5 lamp	G5	1.197x297x100	M600	5.2
36-023/135/CX	1x35 W	T5 lamp	G5	1.497x297x100	M600	6.3
36-023/228/CX	2x28 W	T5 lamp	G5	1.197x297x110	M600	7.5
36-023/235/CX	2x35 W	T5 lamp	G5	1.497x297x100	M600	8.3
36-023/414/CX	4x14 W	T5 lamp	G5	595x595x122	M600	8.2

□ - E (low loss ballast), - C (electronic ballast)

36-03 | Recessed luminaires IP65 - universal mounting M625 and plaster ceilings



Code	Power	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
36-033/136/□X	1x36 W	T8 lamp	G13	1.247x311x100	1.215x297	M625	7.7
36-033/158/□X	1x58 W	T8 lamp	G13	1.547x311x100	1.515x297	M625	8.2
36-033/236/□X	2x36 W	T8 lamp	G13	1.247x311x100	1.215x297	M625	7.5
36-033/258/□X	2x58 W	T8 lamp	G13	1.547x311x100	1.515x297	M625	9.0
36-033/418/□X	4x18 W	T8 lamp	G13	622x622x122	591x608	M625	8.7
36-034/336/□X	3x36 W	compact fl. lamp	2G11	622x622x122	591x608	M625	8.1
36-034/355/CX	3x55 W	compact fl. lamp	2G11	622x622x122	591x608	M625	8.1
36-033/128/CX	1x28 W	T5 lamp	G5	1.247x311x100	1.215x297	M625	7.7
36-033/135/CX	1x35 W	T5 lamp	G5	1.547x311x100	1.515x297	M625	8.2
36-033/228/CX	2x28 W	T5 lamp	G5	1.247x311x100	1.215x297	M625	7.5
36-033/235/CX	2x35 W	T5 lamp	G5	1.547x311x100	1.515x297	M625	9.0
36-033/414/CX	4x14 W	T5 lamp	G5	622x622x122	591x608	M625	8.7

□ - E (low loss ballast), - C (electronic ballast)



Arietis



IP65

CA

T8

T5

TC-L



230 V
50 Hz
CE

Material:

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- louvre: highly polished parabolic louvre
- cover: safety hardened glass

Degree of protection: IP65

Rated voltage: 230 V / 50 Hz

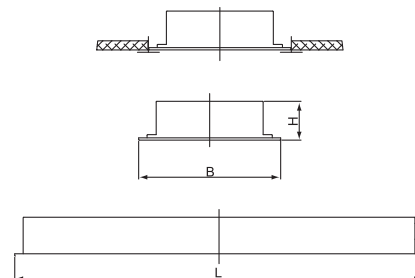
Control gear: low loss or electronic ballast, dimmable ballast and emergency module by request

Mounting: ceiling systems M600 – inlay mounting (36-04), ceiling systems M625 – universal mounting and mounting in plaster ceiling (36-05)

Accessories: steel holders (are supplied with luminaire 36-05)

Application: operating theaters, hospitals, laboratories, precincts demanding high sanitary codes, precincts with high rate of dustiness and humidity

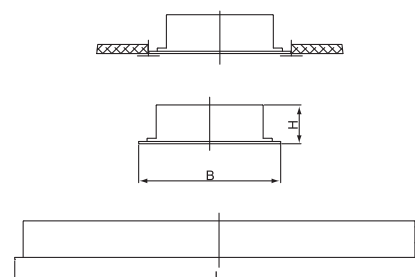
36-04 | Recessed luminaires IP65 - ceiling systems M600, inlay mounting



Code	Power	Lamp	Cap	LxBxH (mm)	Module	Kg
36-043/236/□ BT	2x36 W	T8 lamp	G13	1.197x297x100	M600	8.7
36-043/418/□ BT	4x18 W	T8 lamp	G13	595x595x122	M600	10.1
36-043/128/CBT	1x28 W	T5 lamp	G5	1.197x297x110	M600	8.7
36-043/135/CBT	1x35 W	T5 lamp	G5	1.497x297x100	M600	12.5
36-043/228/CBT	2x28 W	T5 lamp	G5	1.197x297x100	M600	8.7
36-043/235/CBT	2x35 W	T5 lamp	G5	1.497x297x100	M600	12.5
36-043/414/CBT	4x14 W	T5 lamp	G5	595x595x122	M600	10.1
36-044/336/□ BT	3x36 W	compact fl. lamp	2G11	595x595x122	M600	8.9
36-044/355/CBT	3x55 W	compact fl. lamp	2G11	595x595x122	M600	8.9

□ - E (low loss ballast), - C (electronic ballast)

36-05 | Recessed luminaires IP65 - ceiling systems M625 and plaster ceilings, universal mounting



Code	Power	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
36-053/236/□ BT	2x36 W	T8 lamp	G13	1.247x311x100	1.215x297	M625	8.7
36-053/418/□ BT	4x18 W	T8 lamp	G13	622x622x122	591x608	M625	10.1
36-053/128/CBT	1x28 W	T5 lamp	G5	1.247x311x100	1.215x297	M625	8.7
36-053/135/CBT	1x35 W	T5 lamp	G5	1.547x311x100	1.515x297	M625	12.5
36-053/228/CBT	2x28 W	T5 lamp	G5	1.247x311x100	1.215x297	M625	8.7
36-053/235/CBT	2x35 W	T5 lamp	G5	1.547x311x100	1.515x297	M625	12.5
36-053/414/CBT	4x14 W	T5 lamp	G5	622x622x122	591x591	M625	10.1
36-054/336/□ BT	3x36 W	compact fl. lamp	2G11	622x622x122	591x591	M625	8.9
36-054/355/CBT	3x55 W	compact fl. lamp	2G11	622x622x122	591x591	M625	8.9

□ - E (low loss ballast), - C (electronic ballast)

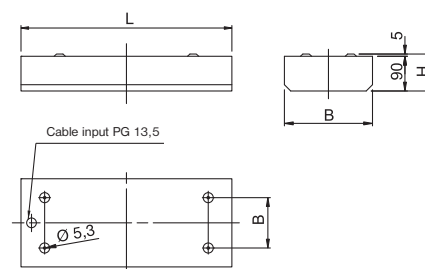
Arietis

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- louvre: highly polished parabolic louvre (36-07)
- cover: prismatic (36-06), safety hardened glass (36-07)

Degree of protection: IP65**Rated voltage:** 230 V / 50 Hz**Control gear:** low loss or electronic ballast, dimmable ballast and emergency module by request**Mounting:** surfaced on ceiling**Application:** operating theaters, hospitals, laboratories, precincts demanding high sanitary codes, precincts with high rate of dustiness and humidity

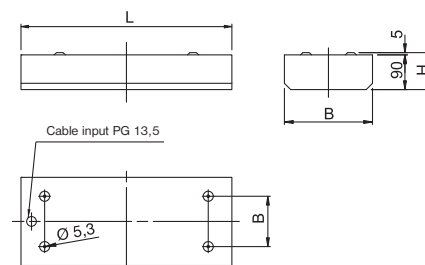
36-06 | Ceiling luminaires IP65



Code	Power	Lamp	Cap	LxBxH (mm)	Kg
36-063/236/□X	2x36 W	T8 lamp	G13	1.292x381x95	9.1
36-063/258/□X	2x58 W	T8 lamp	G13	1.592x381x95	10.8
36-063/228/CX	2x28 W	T5 lamp	G5	1.292x381x95	9.1
36-063/235/CX	2x35 W	T5 lamp	G5	1.592x381x95	10.8
36-063/414/CX	4x14 W	T5 lamp	G5	682x677x95	8.0
36-064/236/□X	2x36 W	compact fl. lamp	2G11	482x414x95	5.0
36-064/255/CX	2x55 W	compact fl. lamp	2G11	604x414x95	5.4
36-064/336/□X	3x36 W	compact fl. lamp	2G11	482x565x95	5.4
36-064/355/CX	3x55 W	compact fl. lamp	2G11	604x565x95	5.8

□ - E (low loss ballast), - C (electronic ballast)

36-07 | Ceiling luminaires IP65



Code	Power	Lamp	Cap	LxBxH (mm)	Kg
36-073/236/□BT	2x36 W	T8 lamp	G13	1.292x381x95	12.0
36-073/258/□BT	2x58 W	T8 lamp	G13	1.592x381x95	14.3
36-073/228/CBT	2x28 W	T5 lamp	G5	1.292x381x95	12.0
36-073/235/CBT	2x35 W	T5 lamp	G5	1.592x381x95	14.3
36-073/414/CBT	4x14 W	T5 lamp	G5	682x677x95	9.0
36-074/236/□BT	2x36 W	compact fl. lamp	2G11	482x414x95	6.2
36-074/255/CBT	2x55 W	compact fl. lamp	2G11	604x414x95	6.6
36-074/336/□BT	3x36 W	compact fl. lamp	2G11	482x565x95	6.9
36-074/355/CBT	3x55 W	compact fl. lamp	2G11	604x565x95	7.3

□ - E (low loss ballast), - C (electronic ballast)





Offices,
hospital rooms
and waiting rooms

Beghelli



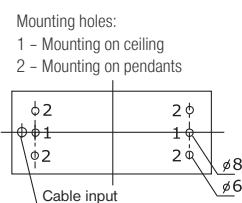
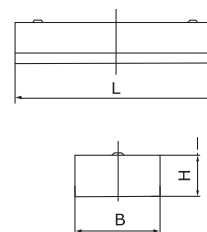
Canes

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- louvre: highly polished or matted parabolic louvre, polished or matted Christmas tree louvre

Degree of protection: IP20**Rated voltage:** 230 V / 50 Hz**Control gear:** electronic ballast, dimmable ballast and emergency module by request**Mounting:** separate mounting on a ceiling or pendants**Accessories:** wire and tube pendants (must be ordered separately)**Application:** offices, hospital rooms and waiting rooms

09-01, 09-04 | Ceiling and suspended luminaires T5 – direct



Code	Power	Louvre / Cover	Lamp	Cap	LxBxH (mm)	Kg
09-013/128/C ²	1x28 W	B,C,D,J,X,Z	T5 lamp	G5	1.193x195x60	3.5
09-013/135/C ²	1x35 W	B,C,D,J,X,Z	T5 lamp	G5	1.493x195x60	4.2
09-013/228/C ²	2x28 W	B,C,D,J,X,Z	T5 lamp	G5	1.193x266x60	4.3
09-013/235/C ²	2x35 W	B,C,D,J,X,Z	T5 lamp	G5	1.493x266x60	5.5
09-043/228/C ²	2x28 W	B,C,D,J,X,Z	T5 lamp	G5	1.193x195x60	3.7
09-043/235/C ²	2x35 W	B,C,D,J,X,Z	T5 lamp	G5	1.493x195x60	4.4

Luminaires with lamps T5 49 W, 54 W or 80 W by request.

- ² - B (highly polished parabolic louvre, 60°)
- C (matted parabolic louvre, 60°)
- D (polished Christmas tree louvre)
- J (matted Christmas tree louvre)
- X (prismatic cover)
- Z (opaline cover)

Pendants for one lamp luminaires 09-01 and two lamp luminaires 09-04

length (mm)	without a cable	with cable
	3x1,5 mm²	
1.200 (wires)	99-080/120	99-081/120
400 (tubes)	99-090/040	99-091/040
600 (tubes)	99-090/060	99-091/060
900 (tubes)	99-090/090	99-091/090
1.200 (tubes)	99-090/120	99-091/120

Pendants for two lamp luminaires 09-01

length (mm)	without a cable	with cable
	3x1,5 mm²	
1.200 (wires)	99-083/120	99-084/120
400 (tubes)	99-093/040	99-094/040
600 (tubes)	99-093/060	99-094/060
900 (tubes)	99-093/090	99-094/090
1.200 (tubes)	99-093/120	99-094/120

Virgo

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- louvre: highly polished or matted parabolic louvre, polished or matted Christmas tree louvre; white louvre
- cover: prismatic, opaline

Degree of protection: IP20

Rated voltage: 230 V / 50 Hz

Control gear: low loss or electronic ballast, dimmable ballast and emergency module by request

Mounting:

30-02 – ceiling systems M600, inlay mounting

30-03 – universal mounting into ceiling systems M625, into plaster ceilings or in ALU-panel ceilings (only for one lamp luminaires)

Accessories: steel holders for 30-03 (must be ordered separately)

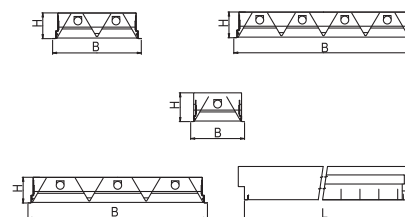
99-294 in ALU-panel ceilings (4 pcs)

99-298 in ceiling systems (4 pcs)

99-299 in plaster ceilings (4 pcs)

Application: offices, hospital rooms and waiting rooms, corridors and medical offices

30-02 | Recessed luminaires - inlay mounting M600



Code	Power	Louvre / Cover	Lamp	Cap	LxBxH (mm)	Module	Kg
30-023/118/ ^{1 2}	1x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	593x178x95	M600	2.2
30-023/136/ ^{1 2}	1x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.193x178x95	M600	3.6
30-023/158/ ^{1 2}	1x58 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.493x178x95	M600	5.1
30-023/218/ ^{1 2}	2x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	593x293x85	M600	3.2
30-023/236/ ^{1 2}	2x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.193x293x85	M600	5.7
30-023/258/ ^{1 2}	2x58 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.493x293x85	M600	9.2
30-023/318/ ^{1 2}	3x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	593x593x85	M600	4.6
30-023/336/ ^{1 2}	3x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.193x593x85	M600	9.5
30-023/418/ ^{1 2}	4x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	593x593x77	M600	5.4
30-023/436/ ^{1 2}	4x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.193x593x85	M600	12.5

¹ - E (low loss ballast), - C (electronic ballast)

² - A (white louvre)

- B (highly polished parabolic louvre, 60°)

- C (matted parabolic louvre, 60°)

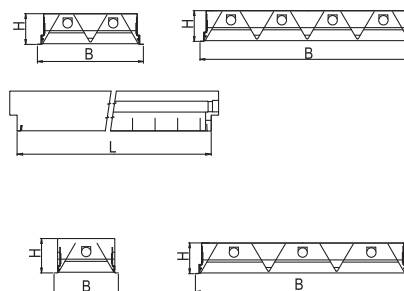
- D (polished Christmas tree louvre)

- J (matted Christmas tree louvre)

- X (prismatic cover)

- Z (opaline cover)

30-03 | Recessed luminaires - universal mounting M625 and plaster ceilings



Code	Power	Louvre / Cover	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
30-033/118/ ^{1 2}	1x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	623x211x90	580x158	M625	2.5
30-033/136/ ^{1 2}	1x36 W	A,B,C,D,I,J,X,Z	T8 lamp	G13	1.246x211x90	1.175x158	M625	3.6
30-033/158/ ^{1 2}	1x58 W	A,B,C,D,I,J,X,Z	T8 lamp	G13	1.546x211x90	1.475x158	M625	5.1
30-033/218/ ^{1 2}	2x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	623x311x90	580x275	M625	3.3
30-033/236/ ^{1 2}	2x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.246x311x90	1.175x275	M625	6.0
30-033/258/ ^{1 2}	2x58 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.546x311x90	1.475x275	M625	9.2
30-033/318/ ^{1 2}	3x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	620x620x77	615x580	M625	4.9
30-033/336/ ^{1 2}	3x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.246x622x90	1.175x580	M625	9.8
30-033/418/ ^{1 2}	4x18 W	A,B,C,D,J,X,Z	T8 lamp	G13	623x622x90	580x580	M625	5.7
30-033/436/ ^{1 2}	4x36 W	A,B,C,D,J,X,Z	T8 lamp	G13	1.246x622x90	1.175x580	M625	12.5

¹ - E (low loss ballast), - C (electronic ballast)

² - A (white louvre)

- B (highly polished parabolic louvre, 60°)

- C (matted parabolic louvre, 60°)

- D (polished Christmas tree louvre)

- I (highly polished assymetric reflector, only for one lamp luminaires 36, 58 W)

- J (matted Christmas tree louvre)

- X (prismatic cover)

- Z (opaline cover)

Lyra

**Material:**

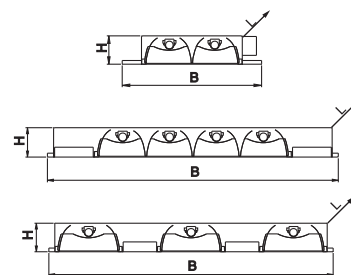
- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003, metallic gray RAL 9006 by request
- louvre: highly polished or matted parabolic louvre, polished or matted Christmas tree louvre

Degree of protection: IP20**Rated voltage:** 230 V / 50 Hz**Control gear:** electronic ballast, dimmable ballast and emergency module by request**Mounting:** ceiling systems M600 – universal mounting,
32-03 ceiling systems M625 – universal mounting and mounting in plaster ceilings**Accessories:** (must be ordered separately)

99-298 – holders for mounting in panel and plaster ceiling systems (4 pcs)

Application: offices, hospital rooms and waiting rooms, corridors and medical offices

32-02 | Recessed luminaires T5 lamps - universal mounting M600

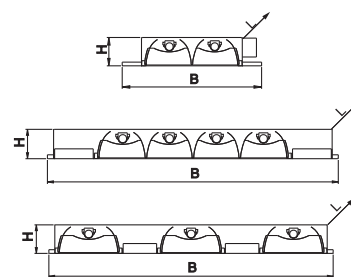


Code	Power	Louvre	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
32-023/214/C 2	2x14 W	B, C, D, J	T5 lamp	G5	595x295x60	575x275	M600	3.0
32-023/228/C 2	2x28 W	B, C, D, J	T5 lamp	G5	1.195x295x60	1.175x275	M600	5.8
32-023/314/C 2	3x14 W	B, C, D, J	T5 lamp	G5	595x595x60	575x575	M600	5.0
32-023/328/C 2	3x28 W	B, C, D, J	T5 lamp	G5	1.195x595x60	1.175x575	M600	8.5
32-023/414/C 2	4x14 W	B, C, D, J	T5 lamp	G5	595x595x60	575x575	M600	5.0
32-023/428/C 2	4x28 W	B, C, D, J	T5 lamp	G5	1.195x595x60	1.175x575	M600	8.5

Luminaires with lamps T5 24W and 54W by request.

- 2 - B (highly polished parabolic louvre, 60°)
 - C (matted parabolic louvre, 60°)
 - D (polished Christmas tree louvre)
 - J (matted Christmas tree louvre)

32-03 | Recessed luminaires T5 lamps - universal mounting M625 and plaster ceilings



Code	Power	Louvre	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
32-033/214/C 2	2x14 W	B, C, D, J	T5 lamp	G5	620x308x60	575x275	M625	3.0
32-033/228/C 2	2x28 W	B, C, D, J	T5 lamp	G5	1.245x308x60	1.175x275	M625	5.8
32-033/314/C 2	3x14 W	B, C, D, J	T5 lamp	G5	620x620x60	575x575	M625	5.0
32-033/328/C 2	3x28 W	B, C, D, J	T5 lamp	G5	1.245x620x60	1.175x575	M625	8.5
32-033/414/C 2	4x14 W	B, C, D, J	T5 lamp	G5	620x620x60	575x575	M625	5.0
32-033/428/C 2	4x28 W	B, C, D, J	T5 lamp	G5	1.245x620x60	1.175x575	M625	8.5

Luminaires with lamps T5 24 W and 54 W by request.

- 2 - B (highly polished parabolic louvre, 60°)
 - C (matted parabolic louvre, 60°)
 - D (polished Christmas tree louvre)
 - J (matted Christmas tree louvre)

Carella



Material:

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- reflector: matted aluminium sheet or white painted steel reflector
- diffuser: finely perforated white steel sheet with diffusing sheet (34-02 and 34-04)
- louvre: highly polished or matted parabolic louvre made of a pure aluminium sheet – Miro (34-06 and 34-07)

Degree of protection: IP20

Rated voltage: 230 V / 50 Hz

Control gear: low loss ballast or electronic ballast, dimmable ballast by request (34-02 a 34-04);
electronic ballast, dimmable ballast by request (34-06 a 34-07)

Mounting:

34-02, 34-06 a 34-07 – ceiling systems M600, inlay mounting;

34-04 – ceiling systems M625, mounting in plaster ceilings

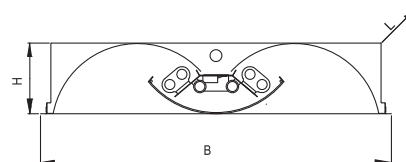
Accessories: for luminaire 34-04 (must be ordered separately)

99-298 – holders for mounting in panel ceilings (4 pcs)

99-299 – holders for mounting in plaster ceilings (4 pcs)

Application: offices, hospital rooms and waiting rooms, corridors and medical offices

34-02, 34-04 | Recessed luminaires – direct/indirect

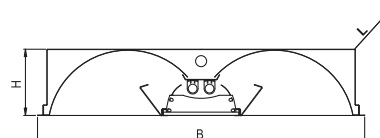


Code	Power	Lamp	Cap	LxBxH (mm)	Hole cut out (mm)	Module	Kg
34-024/236/ ¹ ²	2x36 W	compact fl. lamp	2G11	594x593x120	-	M600	6.3
34-024/255/C ²	2x55 W	compact fl. lamp	2G11	594x593x120	-	M600	5.5
34-044/236/ ¹ ²	2x36 W	compact fl. lamp	2G11	623x622x120	575x575	M625	6.3
34-044/255/C ²	2x55 W	compact fl. lamp	2G11	623x622x120	575x575	M625	5.5

¹ - E (low loss ballast)
- C (electronic ballast)

² - A (white painted reflector)
- C (matted reflector)

34-06, 34-07 | Recessed luminaires – direct/indirect



Code	Power	Lamp	Cap	LxBxH (mm)	Module	Kg
34-063/214/C ² ³	2x14 W	T5 lamp	G5	594x593x120	M600	6.0
34-063/228/C ² ³	2x28 W	T5 lamp	G5	1.194x593x120	M600	8.6
34-064/155/C ² ³	1x55 W	compact fl. lamp	2G11	594x593x120	M600	5.8
34-073/214/C ² ³	2x14 W	T5 lamp	G5	594x593x120	M600	6.0
34-073/224/C ² ³	2x24 W	T5 lamp	G5	594x593x120	M600	6.0
34-074/255/C ² ³	2x55 W	compact fl. lamp	2G11	594x593x120	M600	6.0
34-073/228/C ² ³	2x28 W	T5 lamp	G5	1.194x593x120	M600	8.6
34-073/254/C ² ³	2x54 W	T5 lamp	G5	1.194x593x120	M600	8.6

Luminaires with lamps T5 24W and 54W by request.

² - B (highly polished parabolic louvre)
- C (matted parabolic louvre)

³ - A (white painted reflector)
- C (matted reflector)

34-06 – one louvre in the centre of luminaire
34-07 – two louvres in the centre of luminaire

Carella LED

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- louvre: highly polished parabolic louvre

Degree of protection: IP20**Rated voltage:** 230 V / 50 Hz**Control gear:** electronic ballast**Mounting:** universal mounting in ceiling systems M600 and plaster ceilings**Accessories:** steel holders (must be ordered separately)

99-298 – holders into panel ceilings (4 pcs)

99-299 – holders into plaster ceilings (4 pcs)

Application: offices, hospital rooms and waiting rooms, counter space and medical offices

Gemma/Virgo Germ

**Material:**

- body: steel sheet finished by powder technology varnishing
- color: white RAL 9003
- louvre: highly polished parabolic louvre

Degree of protection: IP20**Rated voltage:** 230 V / 50 Hz**Control gear:** electronic ballast (low loss ballast for germicidal lamp 25 W)**Mounting:**

Gemma Germ – on ceiling

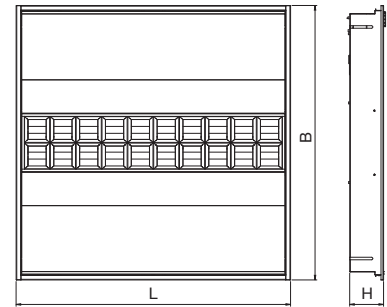
Virgo Germ – recessed in ceiling systems M600 and plaster ceilings – universal mounting

Accessories: luminaires are supplied with holders (only for Virgo Germ)**Application:** offices, hospital rooms and waiting rooms, counter space and medical offices

Germicidal lamps emit short-wave ultraviolet radiation. The radiation kills bacteria and simple organisms. It is used for air and surface disinfection in hospitals. UVC radiation is harmful even in a small doses and may have a negative effect on human's body.

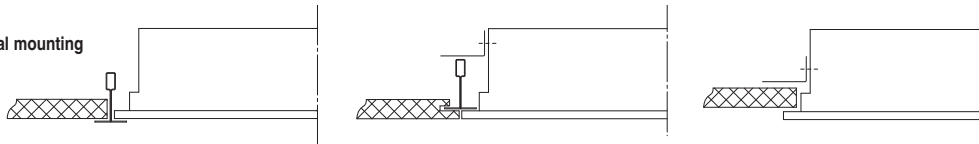
Carella LED | Gemma/Virgo Germ

Carella LED | Recessed luminaires – universal mounting M600 and plaster ceilings



Code	Power	Lamp	LED color temp.	LxBxH (mm)	Hole cut out (mm)	Module	Kg
34-969/216/NBA	32 W	LED	4000K	595x595x73	580x580	M600	4.7

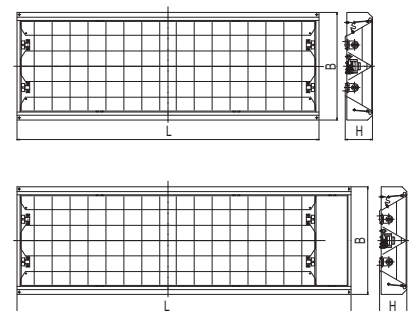
Universal mounting



Gemma/Virgo Germ | Germicidal luminaires surfaced/recessed



Gemma Germ



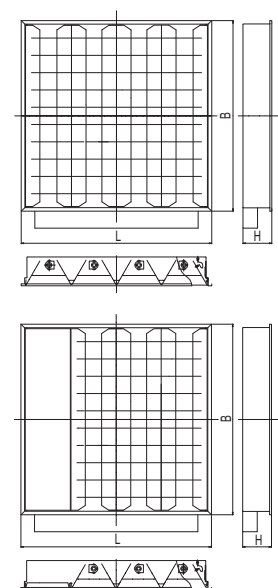
Gemma Germ

Code	Power	Cap	LxBxH (mm)	Kg
1. Version for double-switch connection				
11-313/230/CBG1	1x30 W Germ + 1x30 W T8	G13	943x336x85	5.2
11-313/255/CBG1	1x55 W Germ + 1x30 W T8	G13	943x336x85	5.2
2. Version with motion sensor and double-switch connection				
11-313/230/CBG2	1x30 W Germ + 1x30 W T8	G13	1.043x336x85	5.5
11-313/255/CBG2	1x55 W Germ + 1x30 W T8	G13	1.043x336x85	5.5
3. Version with timer, motion sensor and double-switch connection				
11-313/230/CBG3	1x30 W Germ + 1x30 W T8	G13	1.043x336x85	5.8
11-313/255/CBG3	1x55 W Germ + 1x30 W T8	G13	1.043x336x85	5.8

Virgo Germ

Code	Power	Cap	LxBxH (mm)	Hole cut out	Kg
1. Version for double-switch connection					
30-323/420/CBG1	1x20 W Germ + 3x18 W T8	G13	595x595x90	582x582	5.3
30-323/425/CBG1	1x25 W Germ + 3x18 W T8	G13	595x595x90	582x582	5.8
2. Version with motion sensor and double-switch connection					
30-323/320/CBG2	1x20 W Germ + 2x18 W T8	G13	595x595x90	582x582	5.3
30-323/325/CBG2	1x25 W Germ + 2x18 W T8	G13	595x595x90	582x582	5.8
3. Version with timer, motion sensor and double-switch connection					
30-323/320/CBG3	1x20 W Germ + 2x18 W T8	G13	595x595x90	582x582	5.5
30-323/325/CBG3	1x25 W Germ + 2x18 W T8	G13	595x595x90	582x582	6.0

Virgo Germ



The fixtures are equipped with the lamps.





Leader BS110 40



Acciaio T5 40

Technical background

Beghelli

Leader

Acciaio



Material:

- body: injection molded, self-extinguishing UV-stabilized polycarbonate
- color: gray RAL 7035
- reflector: highly polished polycarbonate reflector
- diffuser: polycarbonate

Degree of protection: IP66

Rated voltage: 230 V / 50 Hz

Control gear: electronic ballast, the luminaires are offered also in emergency version

Mounting: separate or in-line mounting on ceiling or wall, suspension on chain pendants

The luminaires are supplied with ceiling holders (2 pcs), lifting eyes (2 pcs) and lead-in insulator (1 pc).

Application: garage, underground spaces and technical background



Material:

- body: steel sheet finished by powder technology varnishing
- color: gray RAL 7035
- reflector: polished aluminium sheet
- diffuser: clear tempered glass

Ambient temperature: -20 ÷ +40 °C

(version with LED emergency head 0 ÷ +40 °C)

Degree of protection: IP66

Rated voltage: 230 V / 50 Hz

Control gear: electronic ballast, the luminaires are offered also in emergency version

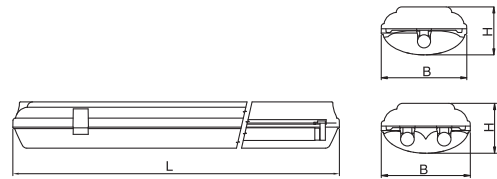
Mounting: on ceiling or pendant mounting

Accessories: (must be ordered separately)

15015 - adjustable ceiling and wall bracket 1-2 x

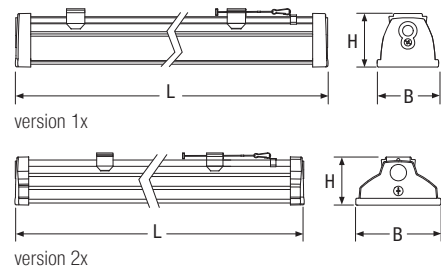
Application: garage, underground spaces and technical background

BS110 Leader | Industrial waterproof luminaires IP66 – polished polycarbonate reflector



Code	Power	Lamp	Cap	LxBxH (mm)	Kg
3715	1x28 W	T5 lamp	G5	1.280x170x95	2.5
3716	1x35 W	T5 lamp	G5	1.580x170x95	2.9
3718	2x28 W	T5 lamp	G5	1.280x170x95	2.7
3719	2x35 W	T5 lamp	G5	1.580x170x95	3.0
3710	1x49 W	T5 lamp	G5	1.580x170x95	2.9
3711	2x49 W	T5 lamp	G5	1.580x170x95	3.0
3712	1x54 W	T5 lamp	G5	1.280x170x95	2.5
3713	2x54 W	T5 lamp	G5	1.280x170x95	2.7

Acciaio T5 | Industrial waterproof luminaires IP66 – polished aluminium reflector

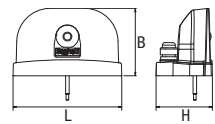
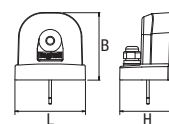


Code	Power	Lamp	Cap	LxBxH (mm)	Kg
14824	1x28 W	T5 lamp	G5	1.203x110x88	4.0
14826	1x35 W	T5 lamp	G5	1.503x110x88	4.5
14828	1x49 W	T5 lamp	G5	1.503x110x88	4.5
14830	1x54 W	T5 lamp	G5	1.203x110x88	4.0
14832	1x80 W	T5 lamp	G5	1.503x110x88	4.5
14825	2x28 W	T5 lamp	G5	1.203x170x88	5.0
14827	2x35 W	T5 lamp	G5	1.503x170x88	6.0
14829	2x49 W	T5 lamp	G5	1.503x170x88	6.0
14831	2x54 W	T5 lamp	G5	1.203x170x88	5.0
14833	2x80 W	T5 lamp	G5	1.503x170x88	6.0

LED emergency head

Emergency head for version 1x

Emergency head for version 2x



The fixtures are equipped with the lamps.

AutoTest

Model	W	Code	Description	Version	Autonomy	Battery	LED	SE flux lm	SA flux lm	Input	Kg	Package/pcs
1x	24	14810	TESTATA EMERG. LED 1x AT	SE	1h	NiMH 7.2 V 0.6 Ah	1 pc	180 lm	–	2.2 W	0.6	1
2x	24	14811	TESTATA EMERG. LED 2x AT	SE	1h	NiMH 7.2 V 0.6 Ah	1 pc	180 lm	–	2.2 W	0.8	1



Model	W	Code	Description	Version	Autonomy	Battery	LED	SE flux lm	SA flux lm	Input	Kg	Package/pcs
1x	24	14812	TESTATA EMERG. LED 1x LG	SE	1h	NiMH 7.2 V 0.6 Ah	1 pc	180 lm	–	2.2 W	0.6	1
2x	24	14813	TESTATA EMERG. LED 2x LG	SE	1h	NiMH 7.2 V 0.6 Ah	1 pc	180 lm	–	2.2 W	0.8	1





Formula 65 LED 44



Logica LED 46



Pluraluce LED 48



Pluraluce LED 48



Indica LED 20/30 m 50



EcoLED Bandiera 52

Emergency luminaires

Beghelli



Formula65 LED



Emergency system luminaire (also with exit sign screen) in an elegant design suitable for recessed, ceiling and wall mounting. Available in LED or with T5 fluorescent lamp. Symmetrical plastic reflector provides uniform distribution of luminous flux. Due to high protection IP 65 and durable polycarbonate construction. Formula65 is suitable for use in demanding operating conditions.

Material:

- body: self-snuffing plastic (standard EN 60598-1, UL 94)
- reflector: plastic, symmetric
- diffuser: polycarbonate

Rated voltage: 198-254 V / 50 Hz

Battery supply: 176-254 V

Ambient temperature:

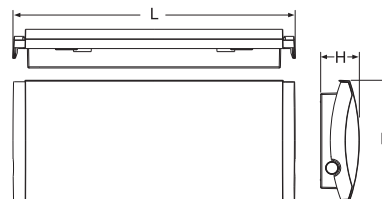
-10 °C ÷ +40 °C (T5)

-20 °C ÷ +40 °C (LED)

Mounting: on wall or ceiling, recessed mounting with recessed box

Formula65 / Formula65 LED

Formula65 / Formula65 LED



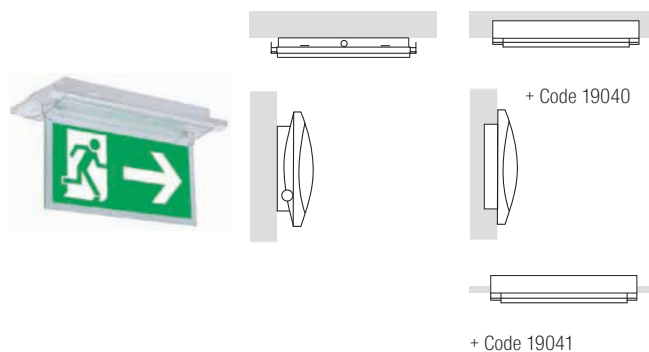
Accessories: Provided with

Code	Description	Pcs
FB19040	Recessed box with frame	1

Accessories: Must be ordered separately

Code	Description
FB19041	false ceiling brackets
FB19044	adhesive legends LEFT / RIGHT / DOWN
FB19045	bracket for flag installation on wall
E16041N-Kit-F65	exit sign pane DOWN
E16040N-Kit-F65	exit sign pane LEFT / RIGHT
FB12194	protective grille

W	• Dimensions (mm) •			Lamp	Cap
	L	B	H		
8	354	152	48.5	T5	G5
32x0.2	354	152	48.5	LED	-



W	Code	Power		EVG	Ballast lumen factor		
		AC	DC		Sleb	Alog	NEA
32x0.2	TB16023	7.0 VA	5.4 W	224 lm			
32x0.2	TB16024	7.0 VA	6.4 W		224 lm		
32x0.2	TB16025	7.0 VA	6.4 W			224 lm	
8	TB92405_1)	13.2 VA	6.8 W ²⁾	100 %	75 %	75 %	100 %

1) Order code with suffix E: Luminaire with HF ballast without monitoring modules

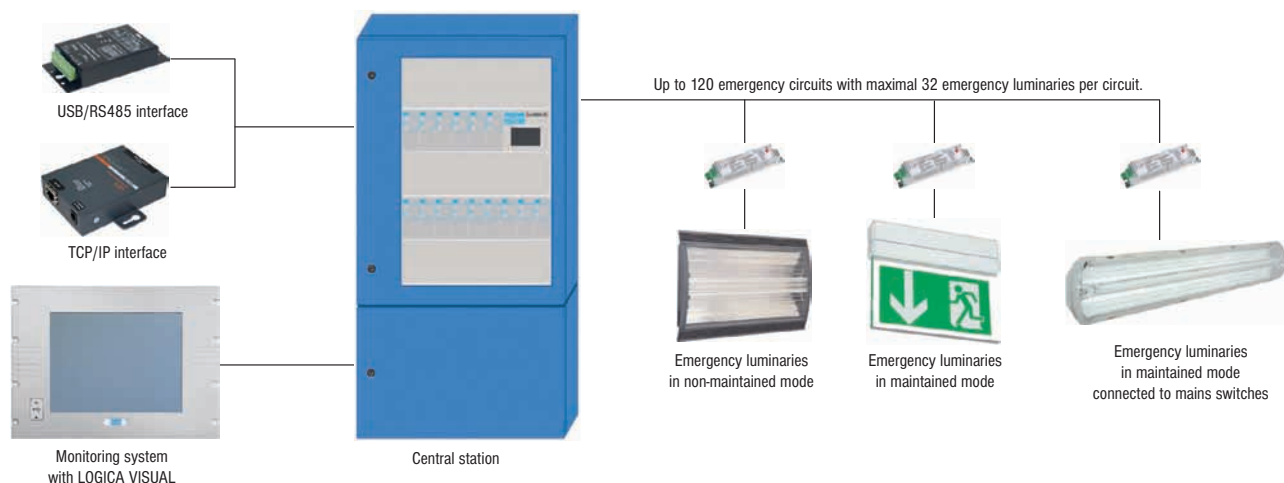
Order code with suffix S: Luminaire with HF ballast with monitoring module, manual coding

Order code with suffix A: Luminaire with HF ballast with monitoring module, automatic coding

Order code with suffix N: Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

2) It is necessary to add 1.5 W during operation for version with Sleb or Alog.

CENTRAL BATTERY SYSTEM SPREADSHEET



Logica LED



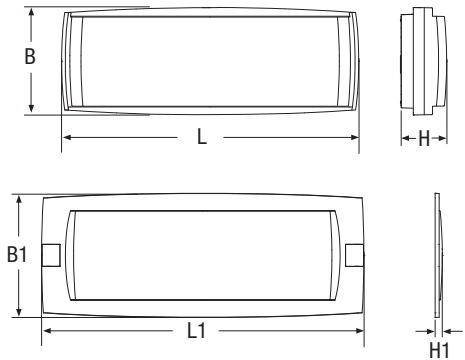
This emergency luminaire features an extremely sophisticated electronic technology. The Logica LED is the only emergency luminaire supplied as a centralised version (LG, LGFM), with the Autotest (AT) version automatically configuring if it is not connected to a control unit. Individual luminaires can also be manually tested, using a magnet with the magnetic switch below the screen. This technology makes it possible to immediately test luminaire efficiency. The circuit also allows for the fixture to be customised to requirements. Duration can be adjusted, (1h/2h/3h) and Maintained versions can be changed to Public venue versions, adjusting light intensity to the venue requirements. This provides an excellent solution when safety signs are the only objects that are visible. The sign must be immediately identifiable, stylish, minimal and with uniform components. A symmetrical and extremely uniform illumination make the Logica LED ideal for wall or ceiling mounting, without an established direction, or for recessed mounting, with the kit provided that includes a box and wire cover. The housing contains a dual reflection optic which integrates two series of ultraefficient LEDs to deliver an unprecedented lighting performance (up to 600 lm). The highly transparent polycarbonate screen has been designed to seal the optical unit and provides IP65 rating.

Material:

- body: self-snuffing plastic (standard EN 60598-1, UL 94)

Degree of protection: IP65**Rated voltage:** 230 V / 50 Hz**Specification:** available in SA (Maintained) and SE (Non maintained), PS (with reduced lighting output)**Mounting:** on ceiling or wall, recessed mounting

Logica LED



Accessories: Provided with

Code	Description	Pcs
-	Logica tube clamp	1
12198	Recessed box IP65 with wire cover frame	1
12199	Bracket for quick wall mounting	1
12175*	Logica RIGHT screen	1
12176*	Logica LEFT screen	1
12177*	Logica DOWN screen	1

* only for SA/PS versions

Accessories: Must be ordered separately

Code	Description	Pcs
12194	Logica lamp grille	
12193	Logica false ceiling bracket	
12175	Logica RIGHT screen	1
12176	Logica LEFT screen	1
12177	Logica DOWN screen	1

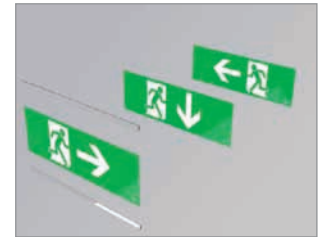
W**	• Dimensions (mm) •						Lamp
	L	B	H	L1	B1	H1	
8	406	147	63	440	170	10	LED
11	406	147	63	440	170	10	LED
24	406	147	63	440	170	10	LED

** Indicative power for comparison with fluorescent tube lighting

LOGICA SCREENS



12175 Logica PS RIGHT screen
12176 Logica PS LEFT screen
12177 Logica PS DOWN screen



must be ordered separately
must be ordered separately
must be ordered separately

[LOGICA]

(AT if not connected to a control unit)

W	Code	Type	Version	Duration	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
8	12182	LOG LED LG 8 W SE 1/2/3P	SE	1/2/3 h	Pb 6 V 4 Ah	30 pcs	410/210/150 lm	-	3 W	2.4	6
8	12185	LOG LED LG 8 W SA/PS 1/2/3N	SA/PS	1/2/3 h	NiCd 7.2 V 2.2 Ah	30 pcs	410/210/150 lm	300 lm	3/13 W	2.4	6
11	12183	LOG LED LG 11 W SE 1/2/3P	SE	1/2/3 h	Pb 6 V 4 Ah	30 pcs	500/260/170 lm	-	3 W	2.4	6
11	12186	LOG LED LG 11 W SA/PS 1/2/3N	SA/PS	1/2/3 h	NiCd 7.2 V 2.2 Ah	30 pcs	500/260/170 lm	390 lm	3/14 W	2.4	6
24	12184	LOG LED LG 24 W SE 1/2/3P	SE	1/2/3 h	Pb 6 V 4 Ah	30 pcs	600/300/200 lm	-	3 W	2.4	6
24	12187	LOG LED LG 24 W SA/PS 1/2/3N	SA/PS	1/2/3 h	NiCd 7.2 V 2.2 Ah	30 pcs	600/300/200 lm	500 lm	3/16 W	2.4	6

* Minimum flow guaranteed according to EN 60598-2-22

[LOGICA]fm

(AT if not connected to a control unit)

W	Code	Type	Version	Duration	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
8	12182FM	LOG LED LGFM 8 W SE 1/2/3P	SE	1/2/3 h	Pb 6 V 4 Ah	30 pcs	410/210/150 lm	-	4 W	2.4	6
8	12185FM	LOG LED LGFM 8 W SA/PS 1/2/3N	SA/PS	1/2/3 h	NiCd 7.2 V 2.2 Ah	30 pcs	410/210/150 lm	300 lm	4/14 W	2.4	6
11	12183FM	LOG LED LGFM 11 W SE 1/2/3P	SE	1/2/3 h	Pb 6 V 4 Ah	30 pcs	500/260/170 lm	-	4 W	2.4	6
11	12186FM	LOG LED LGFM 11 W SA/PS 1/2/3N	SA/PS	1/2/3 h	NiCd 7.2 V 2.2 Ah	30 pcs	500/260/170 lm	390 lm	4/15 W	2.4	6
24	12184FM	LOG LED LGFM 24 W SE 1/2/3P	SE	1/2/3 h	Pb 6 V 4 Ah	30 pcs	600/300/200 lm	-	4 W	2.4	6
24	12187FM	LOG LED LGFM 24 W SA/PS 1/2/3N	SA/PS	1/2/3 h	NiCd 7.2 V 2.2 Ah	30 pcs	600/300/200 lm	500 lm	4/17 W	2.4	6

* Minimum flow guaranteed according to EN 60598-2-22

Pluraluce LED



LED fixture for high performance emergency lighting, with special highly transparent plexiglas lenses kit, for both the Lungaluce and Largaluce versions, to obtain different dimensions of illuminated areas. Each lens has a white polycarbonate cover with fixing system for different types of false ceilings. High efficiency LEDs, die-cast aluminium housing with integrated heat sink. Environmentally friendly NiMH Batteries are components of the fixture. The luminaire is capable of performing self-control autotests or to be managed by Logica control unit. Duration 1-2-3 hrs.

Material:

- body: white polycarbonate RAL 9010

Optical part: highly transparent plexiglas optical lenses

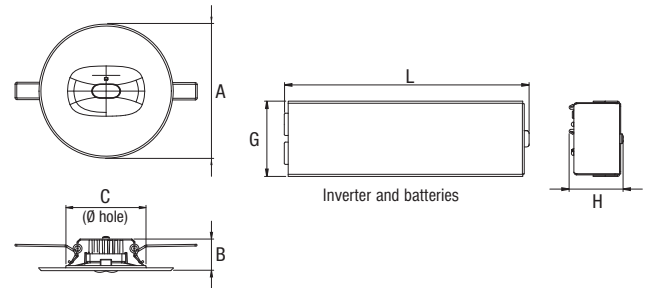
Degree of protection: IP43 / IP42

Rated voltage: 230 V / 50 Hz

Specification: available in SA (Maintained) and SE (Non maintained) and PS (with reduced lighting output)

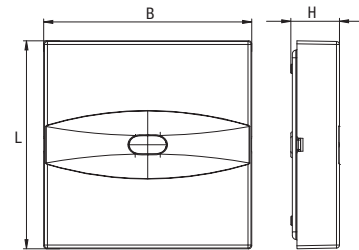
Mounting: recessed into ceiling / surfaced on ceiling

Pluraluce LED



W**	• Dimensions (mm) •						Lamp
	A	B	C	L	G	H	
24	120	28	80-100	204	63	46	LED

** Indicative power for comparison with fluorescent tube lighting



W**	• Dimensions (mm) •			Lamp
	L	B	H	
24	137	137	32	LED

** Indicative power for comparison with fluorescent tube lighting

Accessories: Provided with

Code	Description
-	LUNGALUCE lens with cover (pro 19332, 19333, 19322, 19323)
-	LARGALUCE lens with cover (pro 19332, 19333, 19322, 19323)
-	DIFFUSALUCE lens with cover (pro 19322, 19323)

[LOGICA]

W	Code	Type	Version	Autonomy	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
24	19332	LLARG DW RC LG 24 W SE/SA/PS 1/2/3H	SE/SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	1 pc	180/180/100 lm	126 lm	1/6.5 W	0.8	6
24	19322	LLARG DW CL LG 24 W SE/SA/PS 1/2/3H	SE/SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	1 pc	180/180/100 lm	126 lm	1/6.5 W	0.6	6

* Minimum flow guaranteed according to EN 60598-2-22

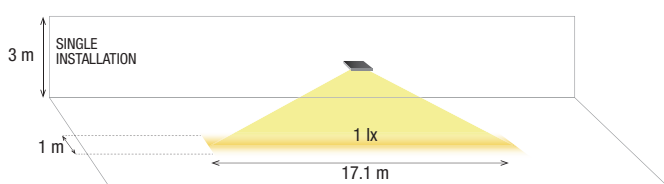
[LOGICA] fm



W	Code	Type	Version	Autonomy	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
24	19333	LLARG DW RC LGFM 24 W SE/SA/PS 1/2/3H	SE/SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	1 pc	180/180/100 lm	126 lm	2/7.5 W	0.8	6
24	19323	LLARG DW CL LGFM 24 W SE/SA/PS 1/2/3H	SE/SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	1 pc	180/180/100 lm	126 lm	2/7.5 W	0.6	6

* Minimum flow guaranteed according to EN 60598-2-22

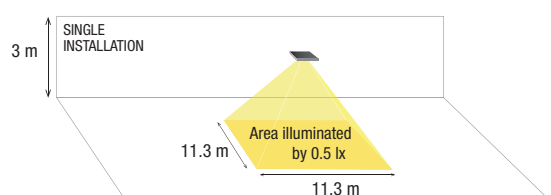
LUNGALUCE LENS



Single installation

covers an escape route of 17.1 m with 1 lux along the centre line and > 0.5 within 1 m

LARGALUCE LENS



Single installation

illuminates a surface area of 11.3 × 11.3 m at 0.5 lux (128 m²)

Indica LED 20/30 m



Emergency LED luminaire with exit sign and new optical system Back Light with high efficiency. The device is versatile due to universal bracket that allows for several types of installation. Moreover, it is available in single-sided version for installation above door. The luminaire is equipped with exit sign opal pane and ensures high luminosity (more than 500 cd/m²). The luminaire is capable of performing self-control autotests or to be managed by Logica control unit. Duration 1–2–3 hrs.

Material:

- body: aluminium frame and polycarbonate bracket RAL 7035

New optical system with high efficiency.

Degree of protection: IP42

Rated voltage: 230 V / 50 Hz

Specification: available in SA (Maintained) / PS (with reduced light output)

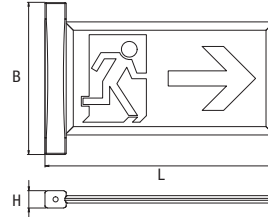
Mounting: on wall or ceiling with bracket, recessed mounting into the wall, suspended mounting on wire or tube pendants

Indica LED 20/30 m

Indica LED 20/30 m

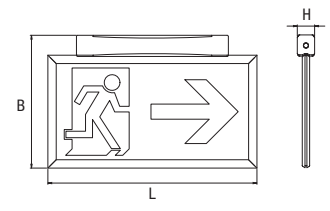


Wall double-sided version



DV	• Dimensions (mm) •			Lamp
	L	B	H	
20	266	252	36	LED
30	366	252	36	LED

Ceiling double-sided version



DV	• Dimensions (mm) •			Lamp
	L	B	H	
20	235	166	36	LED
30	335	216	36	LED

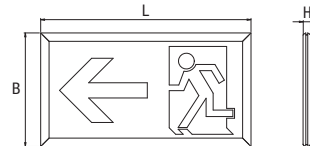
Accessories: Provided with

Code	Description
	screen LEFT/RIGHT/DOWN

Accessories: Must be ordered separately

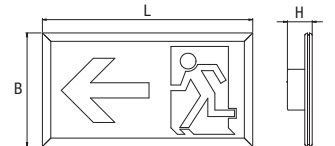
Code	Description
19380	brackets 250 mm Indica DF
19381	brackets 500 mm Indica DF
19382	brackets 1.000 mm Indica DF
19383	Indica DF 2 m wire suspension
19384	20 m false ceiling recessed bracket
19386	30 m false ceiling recessed bracket

Recessed single-sided version



DV	• Dimensions (mm) •			Lamp
	L	B	H	
20	235	135	15	LED
30	335	185	15	LED

Wall single-sided version



DV	• Dimensions (mm) •			Lamp
	L	B	H	
20	235	135	38	LED
30	335	185	38	LED

[LOGICA]

Double-sided version

W	Code	Type	Version	Autonomy	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
2.1	19305	Indica LED DF20M LG SA/PS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 0.6 Ah	32 pcs	192/96/64 lm	115 lm	3.5 W	0.52	6
3.2	19304	Indica LED DF30M LG SA/PS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	48 pcs	288/288/160 lm	205 lm	4.2 W	0.8	6

* Minimum flow guaranteed according to EN 60598-2-22

[LOGICA]*fm*

Double-sided version

W	Code	Type	Version	Autonomy	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
2.1	19307	Indica LED DF20M LGFM SA/PS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 0.6 Ah	32 pcs	192/96/64 lm	115 lm	3.5 W	0.52	6
3.2	19306	Indica LED DF30M LGFM SA/PS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	48 pcs	288/288/160 lm	205 lm	4.2 W	0.8	6

* Minimum flow guaranteed according to EN 60598-2-22

[LOGICA]

Single-sided version

W	Code	Type	Version	Autonomy	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
1	19315	Indica LED SF20M LG SAPS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	16 pcs	96/96/55 lm	68 lm	2.6 W	0.65	6
1.6	19314	Indica LED SF30M LG SAPS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	24 pcs	288/288/160 lm	205 lm	3 W	1.1	6

* Minimum flow guaranteed according to EN 60598-2-22

[LOGICA]*fm*

Single-sided version

W	Code	Type	Version	Autonomy	Battery	LED	Luminous flux SE*	Luminous flux SA*	Absorption	Kg	Pcs
1	19317	Indica LED SF20M LGFM SAPS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	16 pcs	96/96/55 lm	68 lm	2.6 W	0.65	6
1.6	19316	Indica LED SF30M LGFM SAPS 1/2/3H	SA/PS	1/2/3 h	NiMH 7.2 V 1.2 Ah	24 pcs	288/288/160 lm	205 lm	3 W	1.1	6

* Minimum flow guaranteed according to EN 60598-2-22

EcoLED Bandiera



Emergency LED fixture with diffuser and double sided exit sign designed for recessed mounting into ceiling module or surface mounting on ceiling. Fixture delivering high luminous efficiency. Easy installation classifies these fixtures among the most-economical products on the market. Its aesthetic shape provides an ideal solution to indicate escape routes. The fixture is ideal for use in modern applications that require emergency lighting. A characteristic feature of this series is very quick installation and reliable operation. Maximal visibility distance is 30 m.

Material:

- body: steel sheet finished by powder technology varnishing in white color

Degree of protection: IP20

Rated voltage: 230 V / 50 Hz

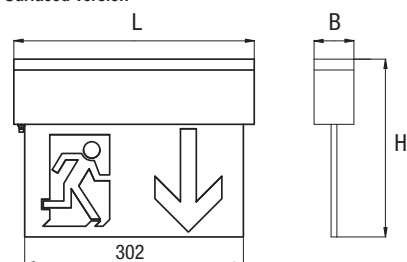
Specification: available in LED SA (Maintained), duration 3hrs

Mounting: surfaced on ceiling or recessed into ceiling

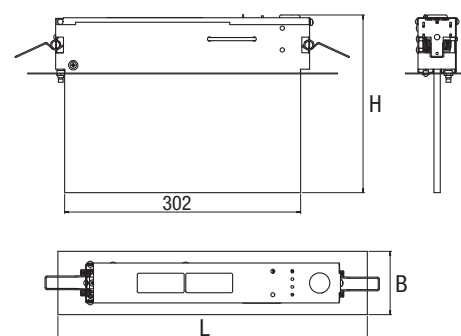
EcoLED Bandiera



Surfaced version



Recessed version



Accessories: Provided with

Code	Description	Pcs
-	clear opal pane	1

Accessories: Must be ordered separately

Code	Description	Pcs
99-0051	adhesive legend LEFT	1
99-0052	adhesive legend RIGHT	1
99-0052	adhesive legend DOWN	2
99-0081	bracket for wall mounting (for surfaced version only)	1

W**	• Dimensions (mm) •			Lamp	Version
	L	B	H		
8	325	56	248	LED	surfaced
8	396	81	228	LED	recessed

** Indicative power for comparison with fluorescent tube lighting

W	Code	Type	Version	Autonomy	Battery	LED	Absorption W	Hole cut out (mm)	Kg	Pckg/ pcs
8	58-009/801/N	Eco LED Bandiera	surfaced	3 h	NiCd 4.8 V 0.75 Ah	8 Pcs	4.2 W	-	2.9	1
8	58-019/801/N*	Eco LED Bandiera	surfaced	3 h	NiCd 4.8 V 0.75 Ah	8 Pcs	4.2 W	-	2.9	1
8	58-029/801/N	Eco LED Bandiera	recessed	3 h	NiCd 4.8 V 0.75 Ah	8 Pcs	4.2 W	350x55	2.8	1
8	58-039/801/N*	Eco LED Bandiera	recessed	3 h	NiCd 4.8 V 0.75 Ah	8 Pcs	4.2 W	350x55	2.8	1

* Standard type supplied with emergency test switch

Business terms & conditions

I. General Provisions

These General Terms and Conditions of Sale (hereinafter “Terms”) govern relations between BEGHELLI-ELPLAST, a.s. (hereinafter “Beghelli-Elplast”), as the seller, and its customers (hereinafter “Buyer”), in selling / purchasing of products, goods, and services provided by Beghelli-Elplast (hereinafter “Products”).

II. Sequence of Documents

In case of a divergence between provisions of various documents regulating relations between Beghelli-Elplast and the Buyer, in the sense and in the extent in which they are in contradiction, the sequence of their obligatory force is as follows:

1. Single-purpose conditions agreed upon individually for a specific business transaction and confirmed in writing by both parties in a relevant commercial document (inquiry, offer, order, order acknowledgement, invoice).
2. Contract of purchase or a general contract of purchase, if such is entered into between Beghelli-Elplast and the Buyer.
3. Special commercial terms and conditions, which are part of the contract of purchase or the general contracts of purchase between Beghelli-Elplast and the Buyer.
4. These Terms.

III. Ordering Procedure

The Buyer submits its purchase orders in writing via electronic mail or by fax. The order shall include, among others, unambiguous specification and quantity of Products and the required delivery term. By its receipt by Beghelli-Elplast the purchase order becomes binding.

Unless expressly agreed between Beghelli-Elplast and the Buyer in writing in documents specified in the Article II. Par. 1 of these Terms, any part of the Buyer's purchase order which is in contradiction or anyway inconsistent with these Terms, will be ignored and not applied to the concerned business transaction.

Beghelli-Elplast shall acknowledge the purchase order in writing via electronic mail or by fax, specifying the delivery time or the currently available quantity. In case Beghelli-Elplast cannot confirm the delivery time of some or all items of the order within 48 (forty eight) hours, it shall confirm to the Buyer at least the fact of the order receipt including information on the supposed term of sending the final order acknowledgment.

In no event shall Beghelli-Elplast be liable for consequences of an eventually denied order or of any part of it.

If within 7 (seven) calendar days after receipt of the order acknowledgement by the Buyer, or within a shorter term in respect of the supposed delivery term, the Buyer does not raise in writing via electronic mail or by fax any objection against the supposed delivery time or against other terms of the order acknowledgement, the order acknowledgement becomes the only binding and final document superior to the Buyer's order. Any changes of the order so acknowledged are possible only in very exceptional cases and only after a prior written agreement of Beghelli-Elplast by cancellation of the concerned item in the original order and issuance of a new one.

In case meeting of a delivery time confirmed in the order acknowledgement appears unfeasible, Beghelli-Elplast shall inform the Buyer not later than 1 (one) day prior the supposed delivery term and indicate a substitutive delivery time.

In no event shall Beghelli-Elplast be liable for loss of profit, operational loss, specific, subsequent, incidental or criminal damages or damages of any other kind due to its failure to meet the delivery times confirmed in an order acknowledgement.

IV. Delivery / Takeover of Products

Unless stipulated otherwise in the documents specified in the Article II. Par. 1 of these Terms, the delivery terms are EXW Brno (place of the distribution warehouse or production plant of Beghelli-Elplast). Transfer of the costs and risks from Beghelli-Elplast to the Buyer is governed by the corresponding provisions of Incoterms 2000.

Upon takeover of the Products, at the moment and at the location pursuant to the applied delivery terms, the Buyer is obliged to examine conformity of the Products or cause them to be examined in respect of their specification, quantity, completeness, and external damage.

If within 7 (seven) calendar days from the date of the takeover the Buyer does not raise any claim of nonconformity, using the appropriate procedure on the Beghelli-Elplast's website, via electronic mail, or by fax, the risk of a lack of quantity, incompleteness or external damage of the Products passes to the Buyer – except when the proper examination cannot be done without unpacking of the single Product. In such case the period for raising a claim for Products nonconformity is extended until the proper examination can be first done, however not longer than for 14 (fourteen) calendar days from the Products takeover.

V. Payment

The Buyer shall pay for the supplied Products within the period, in the currency and on the bank account indicated in the Beghelli-Elplast's invoice. The due day is the day when the Beghelli-Elplast's account is credited.

Should the Buyer is in delay with the payment, Beghelli-Elplast may require a delay interest of 0,1 % on the unpaid amount for each day of the delay. Paying off such delay interests by the Buyer does not affect Beghelli-Elplast's right to indemnity for eventual other damages related to the delayed payment.

In case the Buyer's delay with payment becomes substantial, Beghelli-Elplast has the right to suspend or cancel all remaining orders of the Buyer and require an immediate payment for all its issued invoices regardless of their maturity. Such measure does not affect Beghelli-Elplast's right to indemnity for eventual other damages related to the delayed payment.

VI. Reserve of Property Right

The property right to the Products passes over to the Buyer not until it pays to Beghelli-Elplast the purchase price in the full amount. In case of a payment delay, Beghelli-Elplast may prohibit the Buyer from using the delivered Products or may apply its right to the Products return. For the whole such time, the Buyer is responsible for all risks relating to the delivered Products. Until the property right passes over from Beghelli-Elplast to the Buyer, the Buyer cannot transfer it to any third person. In case of breach of this property reserve by the Buyer in consequence of which a third party would attain in good faith the property right to the Products, Beghelli-Elplast would become entitled to a contractual penalty amounting up to the price of the so concerned Products, which the Buyer is obliged to pay within by Beghelli-Elplast requested time. Paying off such a penalty by the Buyer does not affect Beghelli-Elplast's right to indemnity for eventual other related damages.

Further sale of the Products, to which the Beghelli-Elplast's reserve of property applies, to a third party is possible only on the condition that the Buyer reserves its right of property for at least the period until it fully pays to Beghelli-Elplast for the concerned Products.

On the reserved Products no lien may be imposed nor may the Products be used by anybody as a security for any kind of liability.

Eventual return of the Products as a consequence of its failure to pay does not deprive the Buyer of its obligation to pay for the Products which were not returned, to compensate the derogated value of the Products that were not returned in the quality in which they had been supplied, or to pay off the whole delay interest to which Beghelli-Elplast is entitled.

VII. Price and Terms Modification

Prices or other terms and conditions stated in Beghelli-Elplast's general pricelists, promotional or other commercial materials have an informative character only and in no way constitute the Buyer's right to obtain them.

The prices in Beghelli-Elplast's pricelists exclude VAT, recycling fee and other charges, taxes or duties of any kind, which, in case they are applicable to the Products according to the local law and Beghelli-Elplast is obliged to pay them, will be re-invoiced to the Buyer separately from the selling price.

In the event of unforeseen sudden changes of material, energy or other subsupply prices, other costs and circumstances which Beghelli-Elplast cannot influence nor put off, Beghelli-Elplast reserves the right to modify prices, payment, delivery and other terms and conditions with an immediate effect. Such modified prices or terms and conditions shall be applicable to all Products previously ordered by the Buyer and acknowledged by Beghelli-Elplast upon receipt of a written Beghelli-Elplast's notice by the Buyer via electronic mail or by fax. In such case the Buyer has the right to withdraw from all so affected and so far not delivered orders or from their parts.

VIII. Changes of Products

Beghelli-Elplast reserves the right at its own discretion to change or modify technical specification of the Products or to alter the range of the Products by withdrawing or changing of the existing Products or adding new ones, provided such change does not substantially affect functional properties in a negative way, dimensions or service life of the concerned Products.

IX. Warranty

With exceptions pursuant to Article VII. of these Terms, Beghelli-Elplast guarantees that the Products shall be of identical type and properties referred to in its technical documentation and free of defects in material and workmanship for a period of – if not stated otherwise in the accompanying documents of the particular Products or in other Beghelli-Elplast documentation – 24 (twenty four) months from the day of the Beghelli-Elplast's invoice to the Buyer (hereinafter "Warranty Period"). After expiry of such Warranty Period, the Buyer may not enforce its right to indemnity for any damage due to such nonconformities.

In case a nonconformity of the supplied Products occurs during the Warranty Period, the Buyer is obliged to inform Beghelli-Elplast using the appropriate procedure on Beghelli-Elplast's website or via electronic mail or by fax, not later than within 3 (three) working days from discovery of this fact and to provide Beghelli-Elplast with information and collaboration it may require, including obtaining samples of the Products under the claim and dispatching them to Beghelli-Elplast headquarters.

In case Beghelli-Elplast acknowledges justification of the claim, it provides the Buyer with a remedy in the form and in the sequence as stated below:

- defective Product repair or replacement of its defective parts;
- replacement of the defective Product with a defect-free one;
- compensation of the purchase price.

The decision on form of the remedy is in Beghelli-Elplast's sole discretion dependent on the technical, logistic, and other circumstances. Beghelli-Elplast may also grant to the Buyer a reasonable discount on the price, if the Buyer agrees. Without a prior written consent of Beghelli-Elplast, the Buyer may neither dispatch the Products under the claim to Beghelli-Elplast, nor delay, nor fully or partially suspend payment for the concerned Products.

Shipment with defective goods must be clearly marked by assigned claim number. The address for sending complaints is: Rybářská 3, 603 16 Brno – Czech Republic. Defective goods can not be sent cash on delivery or at the expense of the company Beghelli-Elplast.

This warranty does not cover any faults caused by normal deterioration; accelerated deterioration caused by specific physical, chemical or electrochemical conditions; insufficient maintenance or incorrect repair; failure to observe storage, user and operating instructions; use of unsuitable

materials, parts and tools; as well as any fault due to circumstances beyond Beghelli-Elplast reasonable control.

There are no other warranties, expressed or implied, direct or indirect, beyond those expressly set forth herein. In no event shall Beghelli-Elplast be liable for loss of profit, operational loss, specific, subsequent, incidental or criminal damages or damages of any other kind based on a nonconformity claim or otherwise related to the Products supplied by Beghelli-Elplast pursuant to these Terms or to particular business transactions complying with these Terms. No claim of any kind, where as to Products delivered or for failure to deliver, and whether or not based on negligence, shall be greater in amount that the selling price of the Products with respect to which such claim is made. The Buyer shall not provide any guarantee, expressed or implied, direct or indirect, relating to any Product, which would differ from the warranties provided by Beghelli-Elplast for such Product.

X. Force Majeure

Beghelli-Elplast shall not be liable for a partial or entire failure to meet its obligations pursuant to these Terms, especially for suspension, delay or cancellation of the Buyer's orders, even if previously acknowledged, in cases beyond its reasonable control, including but without limitation:

- intervention of force majeure, war, revolt, civil riots, embargo, interference of civil or military authorities;
- changes relating to administrative, hygienic, and medical laws or regulations;
- strikes, operational or other production disruptions;
- interruption of or hindrance in transport;
- fire, floods, other climate extremes and natural hazard events.

In such events the Buyer has no right to indemnity for any damages, penalties, nor any other indemnification, direct or indirect.

Similar events entitle the Buyer not to take the ordered Products, even already manufactured; however none of these entitles the Buyer not to fulfill its liabilities related to the Products delivered previously, especially to pay the purchase price at the full amount and in the agreed term.

In case of impossibility to meet their obligations for such reasons, Beghelli-Elplast or the Buyer are obliged to advise without unnecessary delay the other party of this fact and its reasons, as well as of ceasing of their effects once it comes on.

XI. Governing Law – Jurisdiction

Relations not expressly regulated by these Terms, nor by other documents as specified in the Article II. Par. 1 of these Terms, are governed by United Nations Convention on contracts for the international sale of goods, Vienna, 1980/04/11.

All disputes arisen between Beghelli-Elplast and the Buyer in connection to these Terms which could not be settled by their mutual conciliation shall be submitted to a sole arbitrator. The arbitrator shall be appointed by the Chairman of Committee of International Arbitration of the National Committee of International Chamber of Commerce of the Czech Republic.

Note:

These General Terms and Conditions of Sale are regularly updated and in this catalogue they are for information only. Binding and up to date General Terms and Conditions of Sale will be sent to you together with Sales Documentation or Contract or if need be on request.

BEGHELLI-ELPLAST,a.s.

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tel.: +420 531 014 111, fax: +420 531 014 210

e-mail: beghelli@beghelli.cz, www.beghelli.cz



Symbols and type approval

Appliances conform to CE Directives.



Fixtures suitable for installation on normally flammable surfaces.



Protection against electric shock rate I



Limited glare $\gamma = 60^\circ$, brightness $\leq 200 \text{ cd.m}^{-2}$



Fixture equipped with a magnetic sensor for emergency test function



Fixtures with insulation Class II. Fixture without this symbol must be considered Class I.



Certificate ENEC 21 (EZÚ Prague)
Certificate ENEC 05 (KEMA Holand)
Certificate ENEC 03 (IMQ Italy)



Level of protection against external factors.
(According to IEC EN 60529)



Indicates the temperature of the glow wire test
(EN 60598-1).



Fixtures characterised by special resistance to UV rays



Code for protection level provided with covers of electric appliances against the exterior mechanical impact.



Luminaire with symbol "Easy Set" will be supplied by request with lamps, protective foil, and connector.



Certificate EMC (EZÚ Prague)



Fluorescent lamp T8 Ø 26 mm



Fluorescent lamp T5 Ø 16 mm



Compact fluorescent lamp 2G11



Compact fluorescent lamp G24q-1



Compact fluorescent lamp 2G7



Compact fluorescent lamp G24d



Compact fluorescent lamp GX24q



Germicidal lamp



LED lamp



Emergency luminaires equipped with batteries assuring a duration of 1 hour after 12 hours of charging



Logica FM



Maximum visibility distance of safety signs according to UNI EN 1838



Emergency lighting systems



Logica



Fixtures suitable for application in harsh environments of cleanrooms

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