

BEGA**24 414**

Ceiling mounted downlight

IP 65

Project · Reference number

Date

Product data sheet

Application

LED hall downlights with symmetrical wide beam light distribution for the illumination of large and tall rooms such as departure halls, factories, sports halls and auditoriums.

Product description

Luminaire made of aluminium alloy,
aluminium and stainless steel
BEGA Unidure® coating technology
Clear safety glass
Silicone gasket
Reflector surface made of pure aluminium
2 stainless steel mounting rails for installation
on existing on-site structures
or
Mounting with mounting frame **13575** under
ceilings and cantilever plates or from high
ceilings with steel cable set **13582**
(see accessories)
Connection box with 2 cable entries for
through-wiring of the mains supply cable from
 \varnothing 5-13 mm, max. $5 \times 2,5^2$
LED power supply unit
220-240 V \sim 0/50-60 Hz
DC 164-276 V
DALI controllable
A basic isolation exists between power cable
and control line
BEGA Thermal Control®
Temporary thermal regulation to protect
temperature-sensitive components without
switching off the luminaire
Safety class I

Ballproof according to DIN VDE 0710
part 13

Protection class IP 65

Dust-tight and protection against water jets

Impact strength IK08

Protection against mechanical
impacts < 5 joule

CE – Conformity mark

Weight: 14.9 kg

Lamp

Module connected wattage 152.8 W

Luminaire connected wattage 170 W

Rated temperature $t_a = 25 \text{ }^\circ\text{C}$

Ambient temperature $t_{a \text{ max}} = 50 \text{ }^\circ\text{C}$

24 414 K3

Module designation 4x LED-1000/830

Colour temperature 3000 K

Colour rendering index CRI > 80

Module luminous flux 27560 lm

Luminaire luminous flux 20662 lm

Luminaire luminous efficiency 121,5 lm/W

24 414 K4

Module designation 4x LED-1000/840

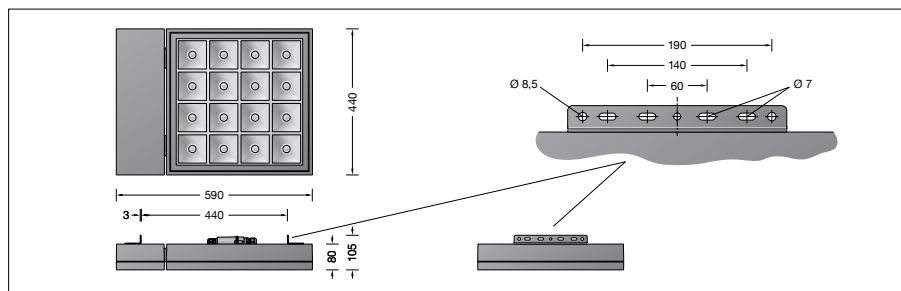
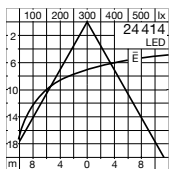
Colour temperature 4000 K

Colour rendering index CRI > 80

Module luminous flux 28380 lm

Luminaire luminous flux 21276 lm

Luminaire luminous efficiency 125,2 lm/W

Light distribution**Service life · Ambient temperature**

Rated temperature $t_a = 25 \text{ }^\circ\text{C}$

LED psu: > 50,000h

LED module: > 200,000h (L80 B50)
100,000h (L90 B50)

Ambient temperature $t_{a \text{ max}} = 50 \text{ }^\circ\text{C}$ (100 %)

LED psu: 50,000h

LED module: 145,000h (L80 B50)

Inrush current

Inrush current: 122 A / 170 μs

Maximum number of luminaires of this
type per miniature circuit breaker:

B 10A: 3 luminaires

B 16A: 5 luminaires

C 10A: 3 luminaires

C 16A: 5 luminaires

Article No. 24 414

LED colour temperature optionally 3000K
or 4000K

3000 K – Article number + **K3**

4000 K – Article number + **K4**

Accessories

13575 Mounting frame

13582 Steel cable set

A separate instructions for use can be provided
upon request.

Light technique

Symmetrical wide beam light distribution

Half beam angle 52°

Luminaire data for the light planning program

DIALux for outdoor lighting, street lighting and

indoor lighting, as well as luminaire data in

EULUMDAT and IES format are available on the

BEGA website at www.bega.com.