

ballea

Luminaire for sports

Always
on the ball



REGIOLUX

ballea

Sports hall luminaire

— — —
Made in Germany

Ball sports thrive on the dynamics and speed of the game – in training as well as in competition or at an event. In any case, *ballea* ensures homogeneous and absolutely glare-free lighting. The innovative multilayer lighting technology reduces glare excellently while maintaining a high luminance. It thus meets the challenges in the most diverse areas of sports halls. With excellent impact resistance, non-yellowing

PC and extensive features, *ballea* is a big plus when it comes to perfect lighting performance.

The *netlife* Bluetooth control technology and the versatile mounting accessories underline its many areas of application. Our example planning shows how convincing an ideal solution can be. With lighting technology in top form, nothing stands in the way of a great performance in every situation.



- Experience all kinds of sport with glare-free light
- All-rounder from recessed installation to suspension from a gable roof
- Simple refurbishment or new installation – including light control
- Efficient power – CO₂ savings with up to 157 lm/W
- Long service life and guarantee

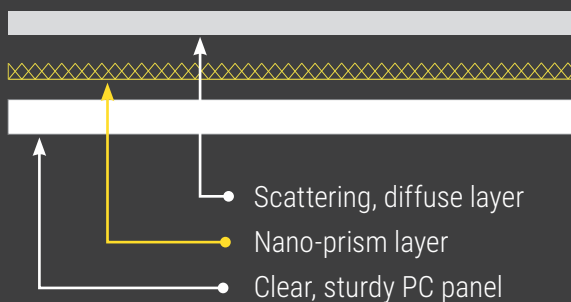
* flicker-free up to 400 Hz



IK10

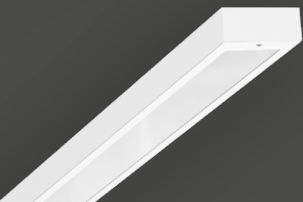
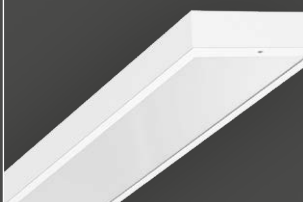












Lighting technology: multilayer technology



Fields of application

- Multi-purpose halls
- Three-zone sports halls
- Indoor tennis centres
- Futsal facilities
- Badminton courts
- Gymnastics and fitness rooms
- Side and functional rooms

Type	ballea-BAM/2	ballea-BAM/3	ballea-BAM/3
			
Lighting technology	Multilayer nano-prism	Multilayer nano-prism	Multilayer nano-prism
Luminous intensity distribution curve			
Light distribution	Direct narrow/ wide beam distribution	Direct narrow/ wide beam distribution	Direct narrow/ wide beam distribution
Certification mark	 UGR ≤ 19/21	 UGR ≤ 21/22	 UGR ≤ 20
Maximum ambient temperature	+35 °C	+35 °C	+35 °C
Impact resistance	IK10	IK10	IK10
Protection Type	IP 40	IP 40	IP 40
Type of installation	Surface-mounted Recessed Pendant Light run Support rail	Surface-mounted Recessed Pendant Light run Support rail	Surface-mounted Recessed Pendant Light run Support rail
Installation depth*	 Id 120	 Id 120	 Id 120
Cut-out dimensions*	1573 x 210*	1573 x 350*	1573 x 350*
LxWxH	1563 x 200 x 70	1563 x 340 x 70	1563 x 340 x 70
Luminaire luminous flux [lm]	5300–10600	21800–28900	16900
Luminaire efficiency [lm/W]	140–157	137–143	112
Light colour	840	840	940
LED service life	100000h L80/B50 50000h L80/B10	100000h L80/B50 50000h L80/B10	100000h L70/B10 50000h L80/B10
Control gears	ET, DALI, DALI flex10L	ET, DALI, DALI flex10L	ET, DALI, DALI flex10L
Housing	Sheet steel	Sheet steel	Sheet steel
Housing colour	traffic white RAL 9016	traffic white RAL 9016	traffic white RAL 9016
Features	netlife inside, control, sensor technology	netlife inside, control, sensor technology	netlife inside, control, sensor technology

* when using accessory mounting frames
Detailed and current data can be found @ www.regiolux.de/en

ballea with installation frame

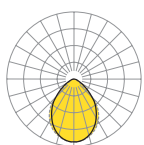
LED service life transparently

Type	Configuration	Ta 25 °C				Ta 35 °C
		L80B50	L80B10	L70B10	L90B50	L80B10
BAM/2	5.300 lm	100.000h	100.000h	100.000h	50.000h	100.000h
	10.600 lm	100.000h	90.000h	100.000h	50.000h	50.000h
BAM/3	21.800 lm	100.000h	90.000h	100.000h		50.000h
	16.900 lm	100.000h	90.000h	100.000h		50.000h
	28.900 lm	75.000h	65.000h	100.000h		50.000h

Ceiling surface mounting



Microprismatic diffuser direct narrow/wide beam distribution



UGR \leq 19 \leq 22



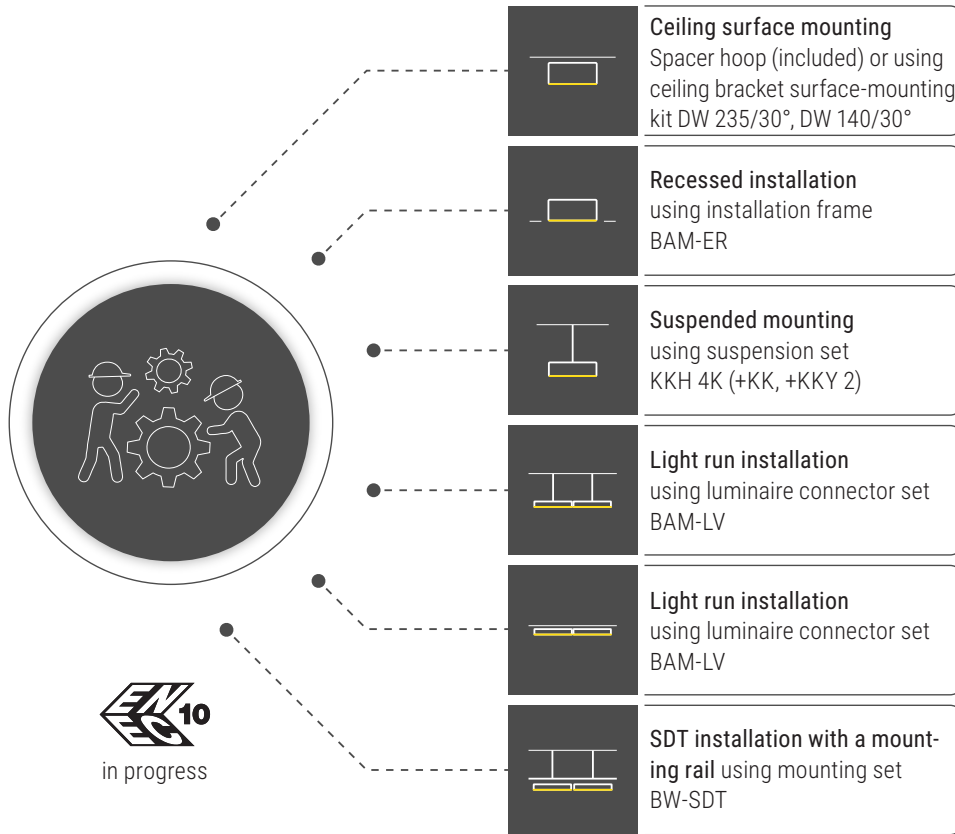
Type	Configuration	Colour	Control gear	LxWxH/DxH	Part no.	lm/W	P _{sys} [W]
ballea-BAM/2 IP40	LED 5300 840	vw RAL 9016	ET	1563 x 200 x 70	6742 8014 190	157	33,6
			DALI ¹⁾	1563 x 200 x 70	6742 8016 690	157	33,6
			DALI flex10L	1563 x 200 x 70	6742 8016 590	157	33,6
	LED 10600 840	vw RAL 9016	ET	1563 x 200 x 70	6742 8024 190	140	75,9
			DALI ¹⁾	1563 x 200 x 70	6742 8026 690	140	75,9
			DALI flex10L	1563 x 200 x 70	6742 8026 590	140	75,9
ballea-BAM/3 IP40	LED 21800 840	vw RAL 9016	ET	1563 x 340 x 70	6743 8034 190	143	151,8
			DALI ¹⁾	1563 x 340 x 70	6743 8036 690	143	151,8
			DALI flex10L	1563 x 340 x 70	6743 8036 590	143	151,8
	LED 28900 840	vw RAL 9016	ET	1563 x 340 x 70	6743 8044 190	137	210,3
			DALI ¹⁾	1563 x 340 x 70	6743 8046 690	137	210,3
			DALI flex10L	1563 x 340 x 70	6743 8046 590	137	210,3
ballea-BAM/3 IP40	LED 16900 940	vw RAL 9016	ET	1563 x 340 x 70	6743 9034 190	112	151,8
			DALI ¹⁾	1563 x 340 x 70	6743 9036 690	112	151,8
			DALI flex10L	1563 x 340 x 70	6743 9036 590	112	151,8



¹⁾ Luminaires suitable for IoT (Internet of Things)

Varied installation options

Full range of mounting accessories
 – optimum installation for all lighting concepts



Ceiling bracket



DW (BAM/2, BAM/3)

Installation frame



BAM-ER

Suspension set



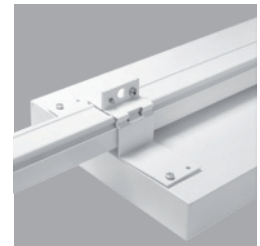
KKH 4K +KKY +KK

Luminaire connector set



BAM-LV

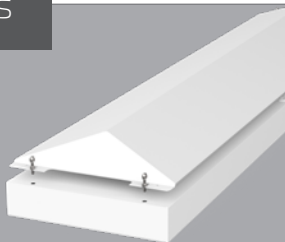
Installation with a mounting rail



BW-SDT (BAM/2, BAM/3)

Our notes on accessories

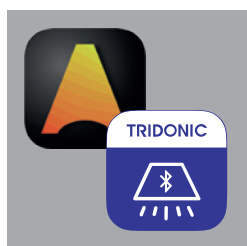
Ball and dust deflector baffle



Accessories

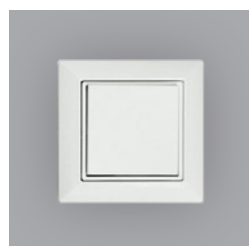
Accessories	Type	Colour	Material	Details	Part no.	
Protection						
Roof hood	BAM-DH/2	vw RAL 9016	St	Dust protection and ball deflector for ballea	6742 9002 100	1
	BAM-DH/3	vw RAL 9016	St	Dust protection and ball deflector for ballea	6743 9002 100	1
Mounting accessories						
Chain suspension	KKH 4K	me	St	Suspension set chain carabiner with cable gland for ballea	3729 0014 100	4
	KKY 2	me	St	Suspension set Y-chain	3729 0005 100	1
	KK	me	St	Node chain / link chain l=30m	9282 9300 100	1
Installation frame	BAM-ER/2	vw RAL 9016	St	Mounting frame for ballea/2	6742 9001 100	1
	BAM-ER/3	vw RAL 9016	St	Mounting frame for ballea/3	6743 9001 100	1
Ceiling bracket	DW 140/30°	vw RAL 9016	St	Ceiling bracket adjustable for ballea BAM/2	3729 0016 100	2
	DW 235/30°	vw RAL 9016	St	Ceiling bracket adjustable for ballea BAM/3	3729 0006 100	2
Installation with a mounting rail	BW-SDT 140K	vw RAL 9016	St	SDT mounting set for ballea BAM/2	3729 0019 100	2
	BW-SDT 235K	vw RAL 9016	St	SDT mounting set for ballea BAM/3	3729 0029 100	2
Luminaire connector set	BAM-LV	vw RAL 9016	St	Light run connector with cable duct and through-wiring for ballea	6740 9001 100	1
Vacuum lifting pad	SH115	sw RAL 9005		Suction pad, d=115mm for for thick plain diffuser panes, wide design	9203 0115 100	1

App store



Configuration apps
Tridonic/Casambi

Wall switch



LC-RX flex BT PB 2W



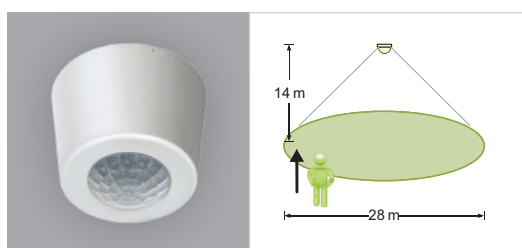
LC-RX flex BT PB 4W

Button coupler



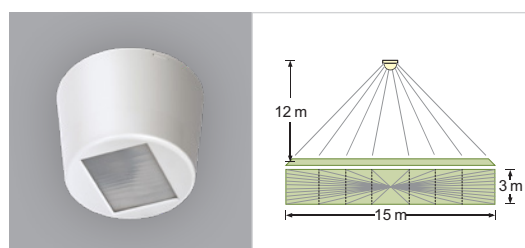
LC-RX flex BT PBU 4

Sensor



LC-RX flex BT Sensor W20

Sensor



LC-RX flex BT Sensor
HB20

Wire protective cage



LC-BSK

netlife accessories for flex10L	Details	Part no.	
LC-RX flex BT Highbay Sensor W20	Bluetooth sensor for ceiling surface mounting IP20 circular	8450 8103 100	1
LC-RX flex BT Highbay Sensor HB20	Bluetooth sensor for ceiling surface mounting IP20 rectangular	8450 8104 100	1
LC-RX flex BT PB 2W	Bluetooth wall switch 2-channel	8450 8107 100	1
LC-RX flex BT PB 4W	Bluetooth wall switch 4-channel	8450 8108 100	1
LC-RX flex BT PBU 4	Bluetooth push button coupler	8450 8109 100	1
LC-BEG BSK	Wire protective cage for sensors	8450 6015 100	1



netlife light control

ballea flex10L ... what light control can do.

ballea flex10L versions are more than just lighting. With integrated Casambi-compatible modules, the *ballea flex10L* reliably controls what is happening in its environment and brings additional efficiency gains as well as convenience. At the same time, all Regiolux luminaires in flex10 version in the building can be controlled.



- Motion detection
- Orientation light function
- Daylight control
- Timer
- Dimming
- Scenes
- Switching



Flexible in the "coaching zone"

- Refurbishment
- Expansion
- Conversion

- Simple light control without additional installation effort, without gateway or construction work
- Configure individual luminaires or mesh easily and conveniently via Bluetooth and app, and build up a network
- Refurbishment, expansion and upgrading or conversion can be carried out with a great deal of flexibility and tailored to needs

Light control – what I need:

Configuration apps



ballea flex10L luminaires



Options

Sensors



Pushbutton



Button coupler



Planning a sports hall with *ballea*

For sloping roofs, we recommend an individual light calculation.

Installation height MH = 7 m

Basis for calculation/legend

E = nominal illuminance

Em = Average illuminance (hall)

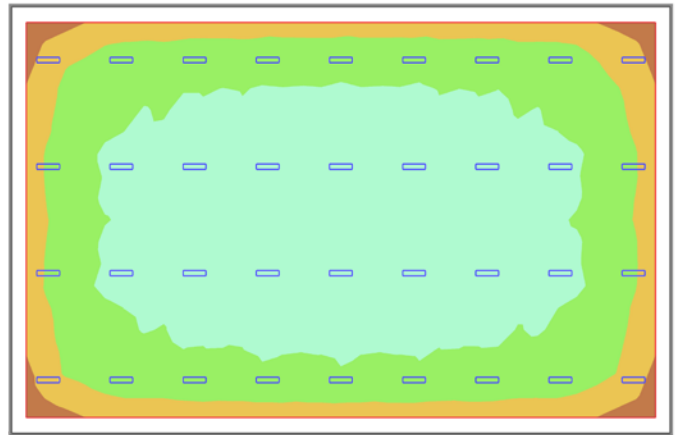
Em 1/3 = Average illuminance (1/3 hall)

Use level = 0.0 m

Degrees of reflection $\rho = 0.7$ (ceiling)/ 0.5 (wall)/ 0.3 (floor)

Average illuminance Em: 544 lx

Homogeneity Uo Emin/Em: 0.72



PDF

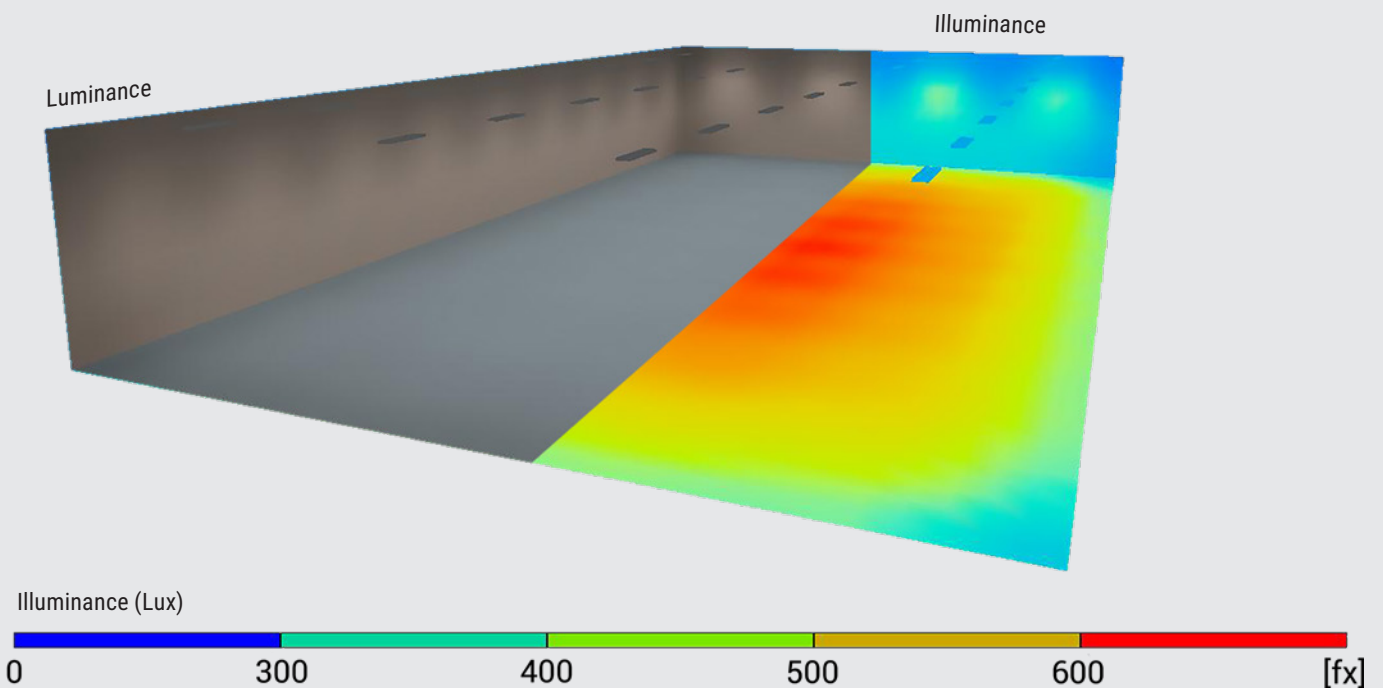


Application manual:
Further wire-bound
solutions for sports halls

Type	Configuration	E	Number of luminaires	Total power	Em	Em 1/3
BAM/2	LED 10600	500 lx	4 x 18 = 72	5.465 kW	530 lx	460 lx
BAM/2	LED 10600	300 lx	4 x 12 = 48	3.643 kW	350 lx	310 lx
BAM/3	LED 21800	500 lx	4 x 9 = 36	5.465 kW	540 lx	480 lx
BAM/3	LED 21800	300 lx	4 x 6 = 24	3.643 kW	370 lx	320 lx
BAM/3	LED 28900	500 lx	4 x 6 = 24	5.047 kW	490 lx	430 lx
BAM/3	LED 28900	300 lx	3 x 6 = 18	3.785 kW	370 lx	330 lx

3D distribution

Luminance and illuminance





CO₂ savings are equivalent to:



CO₂ savings

Basis for calculation 500 lx illuminance	Number of luminaires	Power consumption	CO ₂ emission
T8: THLA 3/58 ECG	72	11,880 W	25.04 t/year
LED: ballea BAM/3 LED 21800 840 ET	36	5,465 W	11.52 t/year
Savings		6,415 W	13.52 t/year

56%

Further team members

Regiolux luminaires for sports facilities

SDT-Match



Powerful linear lighting

Sportler



A winner full of power for a wide range of mounting scenarios

THL



The high-performance athlete among luminaires – even installed in the ceiling



Image index

- 1..... Michal Sanca, stock.adobe.com
- 2-3 master1305, stock.adobe.com
- 3..... Markus Hartwig, Rostock DE
- 6..... Salman Hossain Saif, unsplash.com
- 8..... Rupert Mühlbacher, Salzburg AT
- 9..... Edvard Nalbantjan, shutterstock.com
- 9..... Ruslan Grumble, shutterstock.com
- 11..... Jana Wenderoth, Kassel DE
- 12..... Orla, shutterstock.com

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