

**FEATURES**

- ENEC approved 2 channel Dali DT8 driver
- Certified LED module for BCL
- Dimmable to 0,1%

**SPRINGS**

Standard with CS spring (concrete/gyproc). Also available as above with WS spring (gyproc/metal).



**COLOURS**

Available colours:



Nr	Housing	Inside ring
	RAL 9016	
XX=61	Matt white	Gold
XX=63	Matt white	Silver
XX=62	Matt white	Black
XX=65	Matt white	White



Nr	Housing	Inside ring
	RAL 9005	
XX=71	Matt black	Gold
XX=74	Matt black	Silver
XX=72	Matt black	Black
XX=76	Matt black	White

# Strada 90 BCL

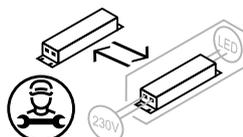
Adjustable

Preliminary

## SPECIFICATIONS

<b>Beam angle</b>	60° / 80°
<b>Fixture material</b>	Housing: Die cast aluminium / Reflector glass: Polycarbonate
<b>LED</b>	Bridgelux COB
<b>CRI</b>	93
<b>Driver type (included)</b>	Eldoled Dualdrive 562/A Dali DT8
<b>IK rate</b>	IK03
<b>IP rate</b>	IP20
<b>Operating temperature</b>	-20°C / +45°C
<b>Safety marks</b>	EN60598 / EN62031 / EN62471
<b>Colour consistency</b>	MacAdam step 3
<b>LV Plug</b>	AMP
<b>Safety class</b>	I
<b>Warranty</b>	7 years (within the European Union and the countries of the Free Trade Association for products delivered after 1 May 2015)
<b>Energy class</b>	These products contains a light source of energy efficiency class F (2700-6500K)

This luminaire contains built-in LED lamps. There are no exchangeable parts inside the luminaire. EU 874/2012



IP20

## STRADA 90 BCL

**2700-6500K**

Downlight incl. PSU



### ITEM SPECIFICATIONS

Description	Item code CS	Item code WS	Input	Vf	W	Lm	Lm/W	CRI (typ.)	UGR	Pf	Ripple	Inrush current	B-16A Fuse
Strada 90 BCL 2700-6500K 1250Lm 60° <sup>1</sup>	856B03XX4W02	856B03XX9W02	120-250V	36	11,4	1250	110	93	24.0	0.90	<5%	200mA²s	106 pcs
Strada 90 BCL 2700-6500K 1250Lm 80° <sup>1</sup>	856B03XX4Y02	856B03XX9Y02	120-250V	36	11,4	1250	110	93	28.4	0.90	<5%	200mA²s	106 pcs

Description	mDER ratings	Energy class	Expected Lifetime			Reported Lifetime*		
			L70B10	L80B10	L90B10	L70B10	L80B10	L90B10
Strada 90 BCL 2700-6500K 1250Lm <sup>1</sup>	40-95%	F	195.000 hrs	120.000 hrs	53.000 hrs	>102.000 hrs	>102.000 hrs	53.000 hrs

Description	Weight	Dimensions single carton	Quantity per carton
Strada 90 BCL 2700-6500K 1250Lm <sup>1</sup>	460 gr	160x107x100 mm	18 pcs

All values are measured at 230V (+/- 7%). \* Based on 17.000hrs of LM80 testing at 120mA and a Tc55°C.

<sup>1</sup> This is the maximum light output, but depending on fluctuations in the lighting plan, the actual output will be lower.

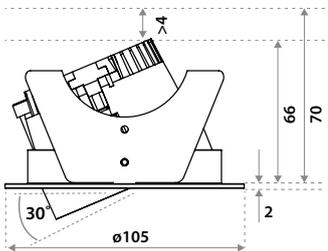
### FIRE RATING TUBE

Description	Item code	Hole size	time
Fire rating tube 90	009D03MW0000	ø94x70mm	90 min.



**⚠** Only in combination with WS (wire) springs versions.

### DIMENSIONS



### HOLE SIZE



**Using CS springs:** Ø 90 mm.  
Thickness ceiling 5-70 mm  
& recess depth 70 mm.



**Using WS springs:** Ø 92 mm.  
Thickness ceiling 1-50 mm  
& recess depth 70 mm.

**AWARENESS OF HEALTHY LIGHT FOR DIFFERENT ACTIVITIES**



The lighting plan consists of two lighting groups. The panels provide a high mDER value for the eyes, while the downlights create comfort for the employee. Both groups operate independently to create a dynamic atmosphere.

**MEASURABLE GENERAL HEALTH EFFECTS  
BASED ON 20+ YEARS STUDIES**

A survey from 248 scientists who have delivered more than 2,600 peer-reviewed publications on light and circadian clocks since 2008 leads to common agreement on the importance of light for health:

- Better sleep
- Better performance
- Greater focus
- Improved immune system
- Reduced risk of burnout
- Minimize health risk: Obesity, Cancer, Dementia, etc.

Brainlit can provide proof of the health advantages of their long implemented BCL lighting plans.

**ADVANTAGES IN SPORTS**

- Better overall health which leads to better performances.
- Dedicated team support for games and tournaments (avoid jet lag and shift best performance time).
- Feedback loop for continuously improvements.

**ADVANTAGES IN ELDERLY  
CARE ENVIRONMENTS**

- Increased sleep length up to 87 minutes.
- Increased sleep efficiency.
- 56% less naps during the day.
- 55% less night-time bed wandering.
- Reduced risk of major depressive disorder.
- 43% less fall accidents in long term care environments.
- Better cognitive function

**EXTRA ADVANTAGES IN HOSPITALS  
AND HEALTH CARE ENVIRONMENTS**

- Reduction of "Length of stay" (LOS) within health care.
- Improved health and wellbeing for shift workers.
- A special recipe is used for ICU (patient/ doctor/ nurse)

**ADVANTAGES IN OFFICES**

- Productivity increase by 18%.
- Improved cognitive functions and alertness.
- Better concentration and work accuracy improvement by 12%.
- Better sleep.
- More than 70% feel happier and with a feeling of more energy.
- Reduced sick leave of 2%.

09-01-2026

## DIFFERENCES BETWEEN A BCL AND HCL LIGHTING PLAN

HCL is mainly used as a visual system where the colour of a group of lights is changing over the day. BCL takes the circadian rhythm in consideration and tries to focus on maximum health effects. It uses a seamless integration of Spectrum, Intensity, Volume and Modulation.

## INSTALLATION OF A BCL SYSTEM

All system components have a Wago plug and once connected, the components find each other automatically (even in case of a replacement of one of the components). An HCL system typically requires an electrician and a DT8 integrator to verify proper operation. The same procedure should be followed if any of the components need to be replaced.

## SYSTEM HARDWARE

- A plug and play system built around standard protocols - DALI, IP/Ethernet, WiFi and Bluetooth.
- Available interfaces to BMS, alarm systems and other controllers.
- Wago plugs and battery-free switches & sensors ensure easy installation.

## RELEVANT NORMS

- ISO 8995-1 (Global norm released 31st 2025)
- LEED (North American norm for sustainable buildings)
- Well Building Standard (North American Standard to improve human health and well-being)
- Breeam circadian demands (European norm with different levels for future proof buildings)
- DIN/TS 67600 (Germany)



The most important norm for HCL is the Well Building Standard which requires a value of 250 mEDI. BCL exceed all of the norms to deliver the greatest healthy impact by using a 2nd warmer group of lighting. This makes it possible to reach higher circadian values (up to 1300 mEDI) and still have a comfortable lighting environment. The norms for HCL are behind the technological possibilities; it is the expectation that the norms will be stricter in the future.

## GENERAL BCL BENEFITS

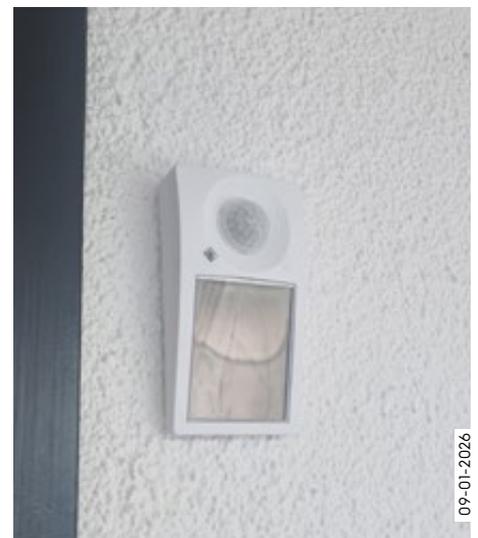
- BrainLit stands behind the circadian impact and health benefits of Biocentric Lighting
- Cost savings and exceeding all norms of HCL systems
- The Light Control Box contains the dedicated recipe and does not need special commissioning
- All components have Wago plugs for easy installation



BCL Wireless Light and Recipe Switch



BCL Light Control Box



BCL Wireless Motion Sensor

**BCL ACCESSOIRES**



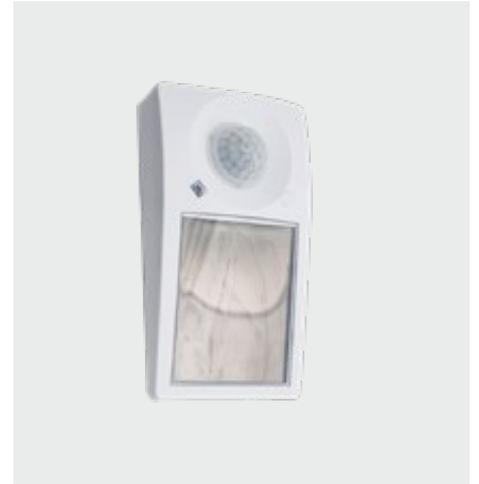
**BCL Wireless Light and Recipe Switch**

Colour	Glossy white
Type	Kinetic (battery less)
Supplier code	300032 Office
	300036 Elderly Care
	300072 Education
	300046 Sport



**BCL Light Control Box**

Colour	Black
Type	Dali DT8 (automatic commissioning)
Supplier code	200100 Office
	200101 Elderly Care
	200103 Education
	200104 Sport



**BCL Wireless Motion Sensor**

Colour	White
Type	Powered by solar cell
Supplier code	300024



**Wago T-splitter 5P**

Colour	Black
Description	WAGO 770-621
Item code	Not supplied



**WAGO 5P extension cable 3,0 m**

Colour	Black
Description	WAGO 771-9985/006-301
Type	16A 1,5 mm² H05VV-F 70°C
Item code	Not supplied