

Atomic LED

Ceiling and suspended LED luminaire – separate / coupling in lines (dimensional options 1.2 m/1.5 m/2.3 m/2.9 m)

Atomic LED is characterized by a very good lighting efficiency, which ensures the high comfort of illumination. The luminaire is suitable for lighting in restaurants, shops, hotels, finance houses, corridors and stairways. Housing is made of anodized aluminium profile with steel endings. Equipped with frosted acrylic diffuser or micro-prism optic system. Available with an emergency LED inverter for emergency usage.

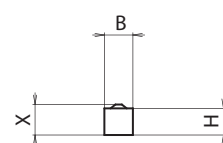
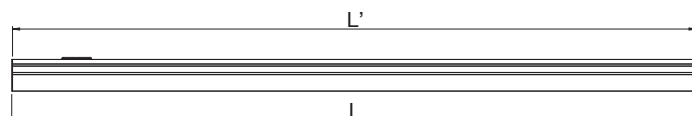


GENERAL CHARACTERISTICS

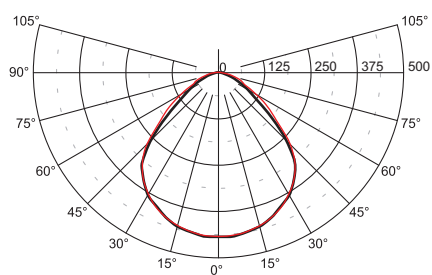
- Equivalent Power*** 2x 36, 2x 58, 2x 80 W
- Power supply** **SD Version:** 93–265 V_{AC} 50/60 Hz
176–250 V_{DC}
ED Version: 230 V_{AC} ±10 % 50 Hz
- Standard** EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (photobiological hazard)
- Protection grade** IP40
- Working temp.** -20 °C ÷ +40 °C
- Mounting** surfaced or suspended mounting
SEPARATE (endings are components of the luminaire), surfaced or suspended mounting COUPLING IN LINES (endings to be ordered separately)
- Body** anodized aluminium profile and steel endings in grey
- Screen** frosted acrylic or microprismatic optics
- Driver** **SD Version:** SmartDriver (cos φ ≥ 0.96)
ED Version: Eco Driver (cos φ ≥ 0.95)
- MTFB control gear**** 65 000 h
- Luminous flux maintenance**** >60 000 h (L80B20)
- Colour deviation** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

** At environmental reference temperature of 25 °C



Length "L" including endings
Length "L'" profile without endings



[1] cd/1 000 lm — C0–C180 — C90–C270

Polar Diagram

SmartDriver

W	• Dimensions (mm) •					Weight kg
	L' (profile without end.)	L (incl. endings)	B	H	X	
2x 36 SD	1 177	1 180	60	56	61	2.5
2x 58 SD	1 177	1 180	60	56	61	2.5
2x 80 SD	1 467	1 470	60	56	61	3.3
(2x) 2x 36 SD	2 348	2 351	60	56	61	5.0
(2x) 2x 80 SD	2 970	2 973	60	56	61	6.6

Version (2x) 2x 36 SD and (2x) 2x 80 SD include 2x SD and 2x OPTICOM.

Eco Driver

W	• Dimensions (mm) •					Weight kg
	L' (profile without end.)	L (incl. endings)	B	H	X	
2x 36	1 156	1 159	60	56	61	2.5
2x 58	1 156	1 159	60	56	61	2.5
2x 80	1 446	1 449	60	56	61	3.3
(2x) 2x 36	2 306	2 309	60	56	61	5.0
(2x) 2x 80	2 928	2 931	60	56	61	6.6

Accessories

to be ordered separately

Order code	Description
90-0096N	WIRE SUSPENSION, 1 pc, 200 cm (for luminaire 1.2, 1.5 and 2.3 m 2 pcs needed, for luminaire 2.9 m 3 pcs needed)
99-0094	TRANSPARENT POWER CABLE 200 cm (3x 1.5 mm ²)
99-0095	TRANSPARENT POWER CABLE 200 cm (5x 1.5 mm ²)
99-0123	ENDING FOR CEILING VERSION COUPLING IN LINES (1 pc)
99-0125	COUPLER FOR LUMINAIRES COUPLING IN LINES

Building automation to be ordered separately

Order code	Description
20102	BUILDING AUTOMATION CENTRAL UNIT
20124	BUILDING AUTOMATION CENTRAL UNIT WIFI
20104	2 INPUT INTERFACE – RADIO TRANSMITTER
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE

Accessories supplied (SD version)

Order code	Description
15039	OPTICOM PHOTODIODE

SPECIAL VARIANTS: COLOUR RENDERING ≥90, COLOUR TEMPERATURE ON REQUEST
Contact the Beghelli sales network

DOMOTIC
RADIO
MODULE1÷10V
MODULEDALI
MODULEPLUG&LIGHT
MODULE

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY



INTELLIGENT PHOTOSENSOR

1. Autodimmer
Natural Light2. Autodimmer
Dynamic Light3. **opticom**
TECHNOLOGYSmartphone Interface
to control and set up system

INVERTER	EMERGENCY WITH LED INVERTER		TR	AT	LG	LGFM
		19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately		
		19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V	to be ordered separately		
		19355	INV LED AT/LG 6W 55V 123H	to be ordered separately		
	19356	INV LED LGFM 6W 55V 123H	to be ordered separately			

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Atomic LED:

Dimming SD 50 %
Device duration +40 %
Luminous efficiency +15 %

Atomic LED

SmartDriver **SD**

Separate mounting

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max. W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2× 36	A11-10001CMSD	Atomic LED 2x36 SD 4000K 1.2m	36	4 000	>80	40	96	4 180	3 483	87	A+	1
2× 36	A11-10001CWS	Atomic LED 2x36 SD 4000K 1.2m	36	4 000	>80	40	96	4 180	3 430	86	A+	1
2× 58	A11-10002CMSD	Atomic LED 2x58 SD 4000K 1.2m	54	4 000	>80	59	144	6 280	5 235	89	A+	1
2× 58	A11-10002CWS	Atomic LED 2x58 SD 4000K 1.2m	54	4 000	>80	59	144	6 280	5 170	88	A+	1
2× 80	A11-10031CMSD	Atomic LED 2x80 SD 4000K 1.5m	55	4 000	>80	63	180	7 970	6 640	105	A+	1
2× 80	A11-10031CWS	Atomic LED 2x80 SD 4000K 1.5m	55	4 000	>80	63	180	7 970	6 730	107	A+	1
(2×) 2× 36	A11-10027CMSD	Atomic LED (2x)2x36 SD 4000K 2.3m	72	4 000	>80	80	192	8 360	7 000	88	A+	1
(2×) 2× 36	A11-10027CWS	Atomic LED (2x)2x36 SD 4000K 2.3m	72	4 000	>80	80	192	8 360	6 860	86	A+	1
(2×) 2× 80	A11-10028CMSD	Atomic LED (2x)2x80 SD 4000K 2.9m	115	4 000	>80	128	360	15 950	13 280	104	A+	1
(2×) 2× 80	A11-10028CWS	Atomic LED (2x)2x80 SD 4000K 2.9m	115	4 000	>80	128	360	15 950	13 460	105	A+	1

Coupling in lines

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max. W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2× 36	A11-10008CMSD	Atomic LED 2x36 SD 4000K 1.2m	36	4 000	>80	40	96	4 180	3 483	87	A+	1
2× 36	A11-10008CWS	Atomic LED 2x36 SD 4000K 1.2m	36	4 000	>80	40	96	4 180	3 430	86	A+	1
2× 58	A11-10009CMSD	Atomic LED 2x58 SD 4000K 1.2m	54	4 000	>80	59	144	6 280	5 235	89	A+	1
2× 58	A11-10009CWS	Atomic LED 2x58 SD 4000K 1.2m	54	4 000	>80	59	144	6 280	5 170	88	A+	1

Atomic LED

Eco Driver **ED**

Separate mounting

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max. W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2× 36	A11-10001CM	Atomic LED 2x36 4000K 1.2m	36	4 000	>80	40	96	4 180	3 483	87	A+	1
2× 36	A11-10001CW	Atomic LED 2x36 4000K 1.2m	36	4 000	>80	40	96	4 180	3 430	86	A+	1
2× 58	A11-10002CM	Atomic LED 2x58 4000K 1.2m	54	4 000	>80	59	144	6 280	5 235	89	A+	1
2× 58	A11-10002CW	Atomic LED 2x58 4000K 1.2m	54	4 000	>80	59	144	6 280	5 170	88	A+	1
2× 80	A11-10031CM	Atomic LED 2x80 4000K 1.5m	69	4 000	>80	77	180	9 420	7 850	102	A+	1
2× 80	A11-10031CW	Atomic LED 2x80 4000K 1.5m	69	4 000	>80	77	180	9 420	7 740	100	A+	1
(2×) 2× 36	A11-10027CM	Atomic LED (2x)2x36 4000K 2.3m	72	4 000	>80	80	192	8 360	7 000	88	A+	1
(2×) 2× 36	A11-10027CW	Atomic LED (2x)2x36 4000K 2.3m	72	4 000	>80	80	192	8 360	6 860	86	A+	1
(2×) 2× 80	A11-10028CM	Atomic LED (2x)2x80 4000K 2.9m	138	4 000	>80	154	360	18 840	15 700	102	A+	1
(2×) 2× 80	A11-10028CW	Atomic LED (2x)2x80 4000K 2.9m	138	4 000	>80	154	360	18 840	15 480	100	A+	1

Coupling in lines

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max. W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2× 36	A11-10008CM	Atomic LED 2x36 4000K 1.2m	36	4 000	>80	40	96	4 180	3 483	87	A+	1
2× 36	A11-10008CW	Atomic LED 2x36 4000K 1.2m	36	4 000	>80	40	96	4 180	3 430	86	A+	1
2× 58	A11-10009CM	Atomic LED 2x58 4000K 1.2m	54	4 000	>80	59	144	6 280	5 235	89	A+	1
2× 58	A11-10009CW	Atomic LED 2x58 4000K 1.2m	54	4 000	>80	59	144	6 280	5 170	88	A+	1

* Equivalent power for comparison with fluorescent tube fixtures; M – frosted acrylic diffuser, W – micro-prism optic system