

# Acciaio Eco LED

## Industrial LED luminaire

Acciaio Eco LED is the reply to the request for products with a high technological content for particularly demanding applications in high risk areas. The steel housing and glass diffuser present both excellent mechanical resistance (IK09) and resistance to aggressive chemical agents. In the industrial field, it is ideally used in installations in environments with an explosive atmosphere, caused either by alterations of a gaseous type or by the presence of combustible powders suspended in the air (according to Standard ATEX 2014/34/EU for zones 02 and 22).

The optic system is composed of a diffuser subdivided into 12 cells for optimal light distribution, and a special microprismatic glass with very high light transmittance for greater visual comfort.

Acciaio Eco LED is suitable for heavy-duty use even in outdoor environments directly exposed to inclement weather: it is designed to resist mechanical vibrations and electromagnetic disturbances typical of industrial environments.



### GENERAL CHARACTERISTICS

**Equivalent Power\*** 1x 36, 2x 36, 1x 58, 2x 58, 2x 80 W (TOP, ATEX)

**Power supply SD Version:**  
93–265 V<sub>AC</sub> 50/60 Hz 176–250 V<sub>DC</sub>  
**ED Version:** 230 V<sub>AC</sub> ±10 % 50 Hz

**Standard** EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), UNI9554:1989, DIN 18032-3:1997-04, EN 62471 (Photobiological hazard), ATEX 2014/34/UE

**Protection grade** IP66, IK09

**Working temp. SD Version:** -30 °C ÷ +50 °C (\*\*\*\*)  
**E and ED Version:** -20 °C ÷ +40 °C

**Mounting** ceiling, suspension, busbar trunking

**Housing** Polyester powder coated sheet steel RAL 7035 grey

**Head Caps** Technopolymer PC+PBT

**Louvre** Wide anti-glare aluminium

**Driver SD Version:**  
SELV electronic SD (cos  $\varphi$  ≥ 0.96) with intelligent dimming  
**ED Version:**  
electronic ED (cos  $\varphi$  ≥ 0.95)

**MTFB Control gear\*\*** 80 000 h

**Luminous flux** >60 000 h (version 2x) (L80B20)

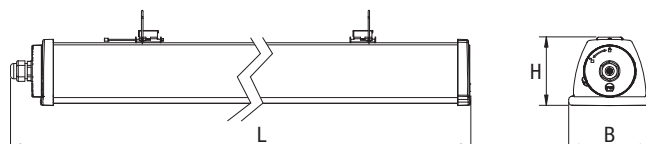
**maintenance\*\*** >70 000 h (version 1x) (L80B20)

**Colour deviation** 3 SDCM

\* Equivalent power for comparison with fluorescent tube fixtures

\*\* At environmental reference temperature of 25 °C

\*\*\*\* At highest working temperature thermal protection may reduce the output power.



Power* W	• Dimensions (mm) •			Weight max kg
	L	B	H	
1x 36	1 225	108	90	3.2
2x 36	1 225	108	90	3.2
1x 58	1 225	108	90	3.2
2x 58	1 225	108	90	3.2
2x 80	1 565	108	90	3.9

## Accessories

supplied

Order code	Description
15040	OPTICOM PHOTOSENSOR ACCIAIO

## Accessories

to be ordered separately

Order code	Description
20107	ACC DIFFUSER 1200
15019	INPUT DOUBLE COUPLING M20
15018	KIT ATEX ACCIAIO ECO (SUPPLIED WITH 2x80 VERSION)
20122	ORIENTABLE BRACKET
20082	MOD EM ACC LED/T5 TR SE1NRM
20085	MOD EM ACC LED/T5 AT/LG SE1/3H
20086	MOD EM ACC LED/T5 LGFM SE1/3H
418319000	CABLE GLAND M20 WITH VENTILATION VALVE

## 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

SPECIAL VARIANTS: COLOUR RENDERING ≥90 – COLOUR TEMPERATURE ON REQUEST – WITH THREE-PHASE THROUGH WIRING – WITH POLYCARBONATE DIFFUSER (HACCP) – SICURO 24 (SLGS) Contact the Beghelli sales network

**DOMOTIC RADIO MODULE**

**1÷10V MODULE**

**DALI MODULE**

**PLUG&LIGHT MODULE**

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



**INTELLIGENT PHOTOSENSOR**

**1. Autodimmer Natural Light**

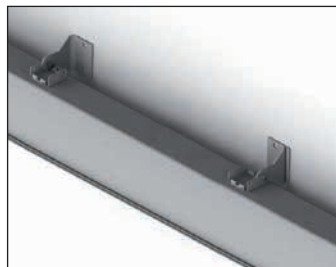
**2. Autodimmer Dynamic Light**

**3. Smartphone Interface to control and set up system**



**MODULE FOR EMERGENCY LIGHTING**

**WALL BRACKET**



**20082** to be ordered separately  
**20085** to be ordered separately  
**20086** to be ordered separately

**20122** 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 Acciaio Eco LED:

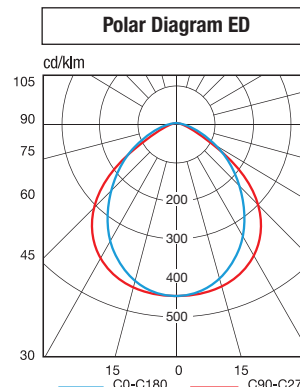
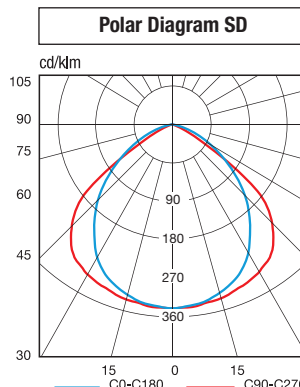
**Dimming SD** 50 %  
**Device duration** +40 %  
**Luminous efficiency** +10 %

**EMERGENCY WITH LED INVERTER**

TR AT LG LGFM

	<b>19358</b> INV PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separ. (version SD only)
	<b>19359</b> INV PLUG&LIGHT LED SE/SA 3H 20-60V	to be ordered separ. (version SD only)
	<b>19367</b> INV PLUG&LIGHT LED SE/SA 1H 60-180V	to be ordered separ. (version ED only)
	<b>19371</b> INV PLUG&LIGHT LED SE/SA 3H 60-180V	to be ordered separ. (version ED only)
	<b>19355</b> INV LED AT/LG 6W 55V 123h	to be ordered separ. (version SD only)
	<b>19372</b> INV LED AT/LG 8W 55V 123H	to be ordered separ. (version SD only)
	<b>19390</b> INV EXT AT/LG AR 10W 55V 0,75-1-2-3-8H LTO	to be ordered separately (version SD only)
	<b>19391</b> INV EXT AT/LG AR 10W 55V 0,75-1-2-3-8H LiFe	to be ordered separately (version SD only)

LG Inverters can be transformed in LGFM with the accessory code 19375



**Acciaio Eco LED**

SmartDriver

	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*	Energy Class	lm/W	Packaging
	2x 18	<b>A218ESD</b>	ACCIAIO E LED 2x18 SD 4000K	11	4 000	>80	12	32	1 850	1 600	A++	135	1
	1x 36	<b>A136ESD</b>	ACCIAIO E LED 1X36 SD 4000K	15	4 000	>80	20	48	3 150	2 700	A++	135	1
	2x 36	<b>A236ESD</b>	ACCIAIO E LED 2X36 SD 4000K	30	4 000	>80	35	96	5 570	4 700	A++	135	1
	1x 58	<b>A158ESD</b>	ACCIAIO E LED 1X58 SD 4000K	23	4 000	>80	29	72	4 400	3 800	A++	131	1
	2x 58	<b>A258ESD</b>	ACCIAIO E LED 2X58 SD 4000K	46	4 000	>80	52	144	8 350	7 000	A++	135	1
	2x 80	<b>A280ESD</b>	ACCIAIO TOP LED 2X80 SD 4K	68	4 000	>80	74 (56***)	180	11 800	9 900	A++	135	1
**	1x 36	<b>A136E</b>	ACCIAIO E LED 1X36 D 4000K	17	4 000	>80	22	48	3 150	2 700	A++	120	1
**	2x 36	<b>A236E</b>	ACCIAIO E LED 2X36 D 4000K	35	4 000	>80	40	96	5 570	4 700	A++	120	1
**	1x 58	<b>A158E</b>	ACCIAIO E LED 1X58 D 4000K	26	4 000	>80	32	72	4 400	3 800	A++	120	1
**	2x 58	<b>A258E</b>	ACCIAIO E LED 2X58 D 4000K	52	4 000	>80	58	144	8 350	7 000	A++	120	1

**Acciaio Eco LED**

Eco Driver

	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*	Energy Class	lm/W	Packaging
	2x 36	<b>A236ED</b>	ACCIAIO ED LED 2X36 4000K	34	4 000	>80	36	96	5 400	4 400	A++	124	1
	2x 58	<b>A258ED</b>	ACCIAIO ED LED 2X58 4000K	50	4 000	>80	52	144	8 050	6 400	A++	122	1

\*\* Version with electronic Driver with traditional technology

\*\*\* The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 150 V<sub>AC</sub>.

LED power, LED Flux and output Flux from the device will be reduced in proportion to the power derating.