



LED

VLUX

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LUX



technical data type ELX

Housing: Grey PC base / frosted Diffuser (co-extrusion)
Glued endcaps also in PC (Polycarbonate).

Always with stainless steel suspension brackets.

- **Optional:** - complete PC frosted housing.
- triangles for suspension.
- venting cable gland (membrane) for applications < 0°C.

Quick Connectors: IP65 Stucchi
IP66 Adels and Wieland

**The luminaire is “sealed for life”
and can not be opened.**



Specifications:

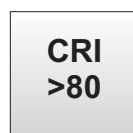
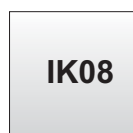
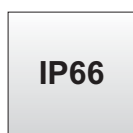
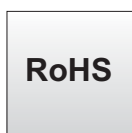
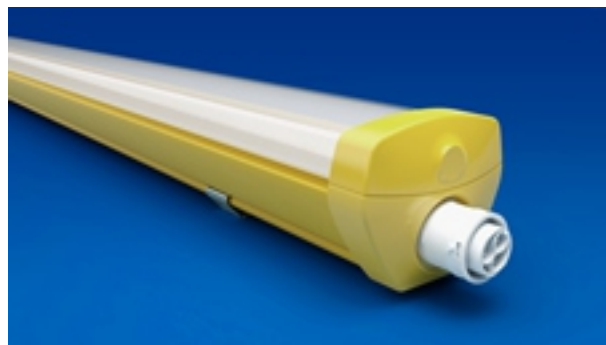
- Product life min. 50.000h L80 B10 at Ta.max
or 70.000h L70 B10 at Ta.max.
- Available in 3000K, 4000K, 5000 and 6500K
with CRI of min.80
- MacAdam 3 SDCM
- Luminous efficiency: LER frosted diff.
up to ** 160 lm/W.
- 220-240V 0/50/60 Hz. (also DC for CBS)
- Ta: -20°C/Ta.max.
- **Optional :** - 1-10V and DALI.
- Trough-wiring 1 phase or 3 phase.
(This will influence the Ta.max.)
- CRI min.90 (930, 940) correction factor 0,85.
(on demand)

Model	Art.	Length	Power*	Flux**	Ta.max.
600	Z	620 mm	9 W	1200 lm	40°C
	R		14 W	2130 lm	35°C
1200	U	1190 mm	16 W	2400 lm	35°C
	S		27 W	4340 lm	43°C
	H		40 W	5830 lm	36°C
1500	V	1490 mm	20 W	3000 lm	45°C
	T		34 W	5440 lm	43°C
	I		49 W	7290 lm	36°C
	X		55 W	8120 lm	28°C

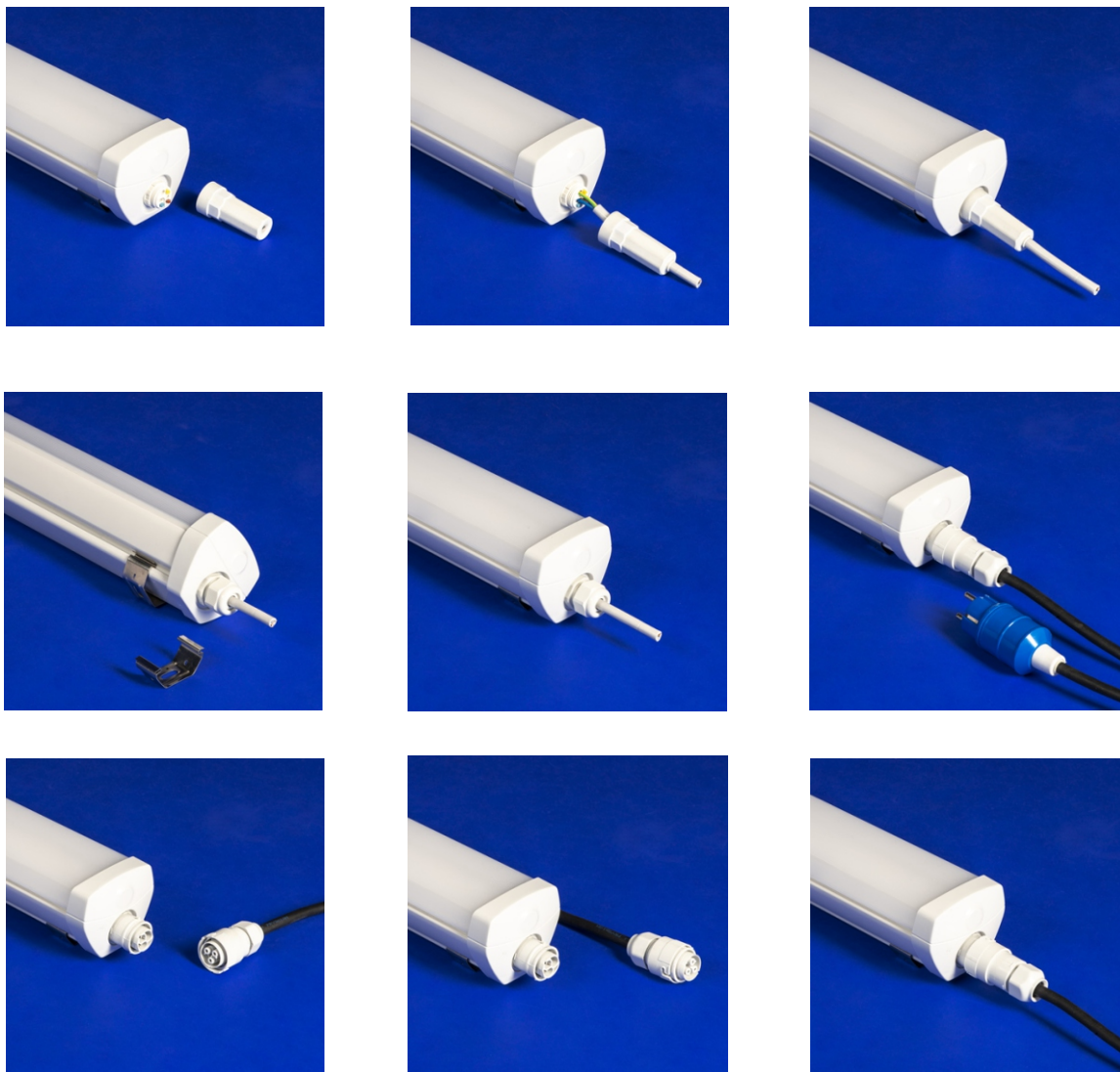
* Total power consumption of LED's and driver.

** Luminous flux of fitting @ 25°C for 840. (correction factor 0.95 for 830)

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

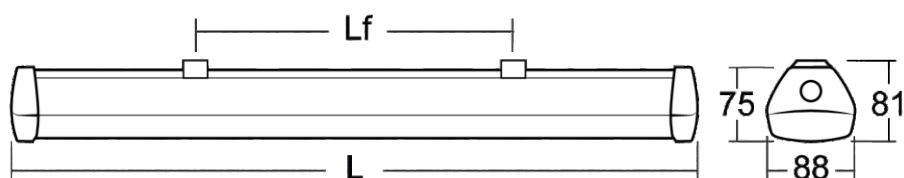


technical data type **ELX**



Impact strenght data of diffuser : diffuser in PC > 6 NM (IK08)

PHILIPS (SIGNIFY) inside : Fortimo LED line 3R/ Strip 1R - Xitanium driver



Lf : adjustable distance of mounting brackets.



technical data type **ELX** **Ecoline**

Housing: Frosted PC material.

Always with stainless steel suspension brackets.

Quick connectors: IP65 Stucchi
IP66 Adels and Wieland

Specifications:

- Product life min. 50.000h L80 B10 at 25°C
or 35.000h L70 B10 (Ta.max.)

- Available in 3000K, 4000K, 6500K
with CRI of min.80

- MacAdam 3 SDCM

- Luminous efficiency: LER frosted diff.
up to ** 131 lm/W.

- 220-240V 50/60 Hz.

- Ta: -15°C/+45°C

- **Optional :** - 1-10V and DALI.
- Trough-wiring 1 phase or 3 phase.
(This will influence the Ta.max.)
- Version for CBS (DC).

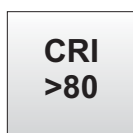
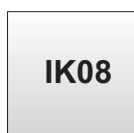
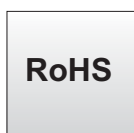
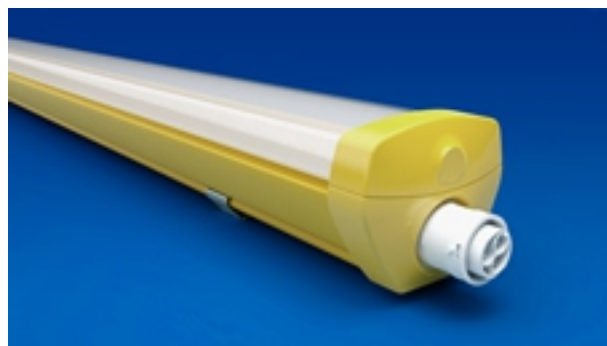


Model	Art.	Length	Power*	Flux**	Ta.max.
600	Z	620 mm	12 W	1500 lm	45°C
	Z		21 W	2560 lm	35°C
1200	Q	1190 mm	28 W	3780 lm	45°C
	O		39 W	5130 lm	35°C
1500	W	1490 mm	35 W	4575 lm	45°C
	P		49 W	6420 lm	35°C

* Total power consumption of LED's and driver.

** Luminous flux of fitting @ 25°C for 840. (correction factor 0.95 for 830)

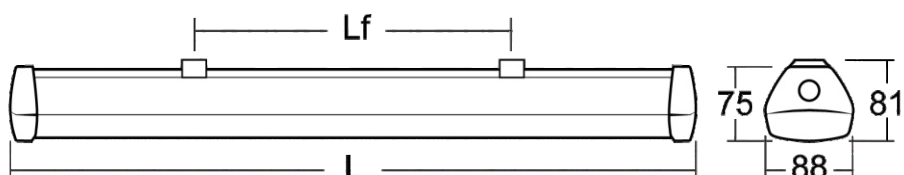
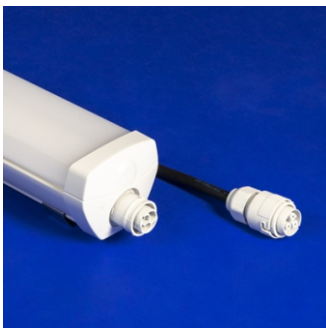
Luminous output and electrical load have an initial tolerance of +/- 10 %
from nominal.



10/11/2020



technical data type **ELX** **Ecoline**



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ISO 9001 certified company.





technical data type **ELX Access**

Housing: Frosted PC material with UV-protection.

With 1 or 2 open endcaps.

Always with stainless steel suspension brackets.

- **Optional :** - triangles for suspension.
- venting cable gland (membrane)

Quick connectors:

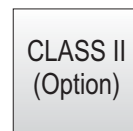
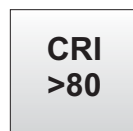
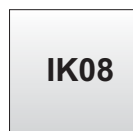
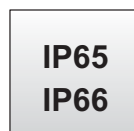
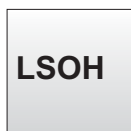
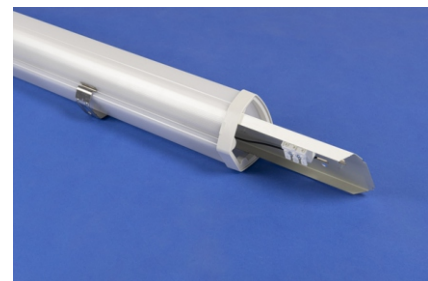
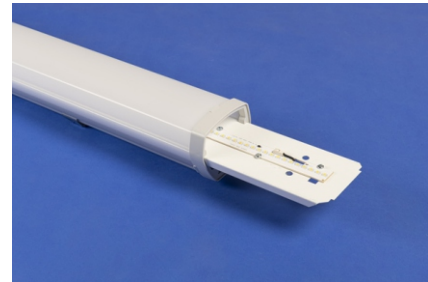
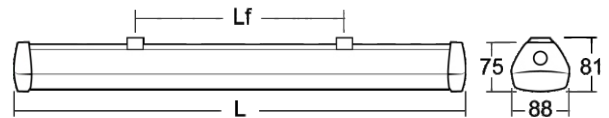
IP65 Stucchi

IP66 Adels and Wieland

IP66 MPM but not with through wiring.

Specifications:

- Product life min. 50.000h L80 B10 at T_{LB}
or 100.000h L80 B10 at 25°C.
- Available in 3000K, 4000K, 5000 and 6500K
with CRI of min.80
- MacAdam 3 SDCM
- Luminous efficiency: LER frosted diff.
up to ** 166 lm/W.
- 220-240V 50/60 Hz.
- Ta: -20°C till +50°C.
- **Optional :**
 - DC driver for CBS
 - 1-10V and DALI.
 - EMergency (Manual test, Self-test, DALI).
 - HF-Motion Sensor.
 - Through-wiring 1 phase or 3 phase.
(This will influence the Ta.max.)
 - CRI min. 90 (930, 940, 965 on demand)
lumen correction factor 0,85.
 - 110 V 50/60 Hz
 - Casambi + other wireless communication systems.



technical data type **ELX Access**

Model	Art.	Power(1)	Flux(2)	T _{LB} (3)	EM(4)	EM ST/DALI (4)	EEC-LED(5)
600	Z	9 W	1450 lm	40°C	0	0	C
	R	13 W	2000 lm	35°C	0	0	C
1200	U	17 W	2750 lm	50°C	√	√	C
	S	25 W	4120 lm	50°C	√	√	C
	H	35 W	5600 lm	45°C	√	0	C
1500	V	20 W	3100 lm	50°C	√	√	C
	T	31 W	5150 lm	50°C	√	√	C
	I	44 W	7000 lm	45°C	√	0	C
	X	53 W	8100 lm	25°C	0	0	C

(1) Total power consumption of LED's and driver. (+/- 10%)

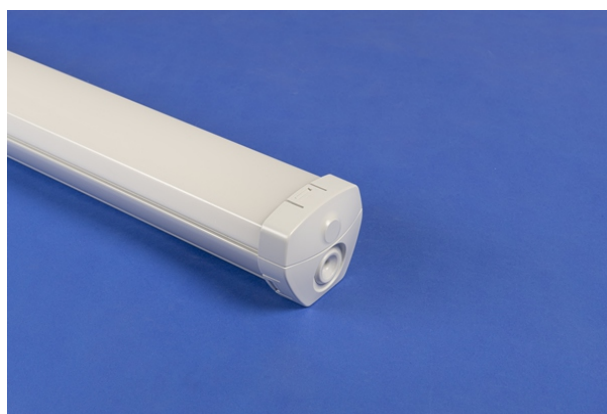
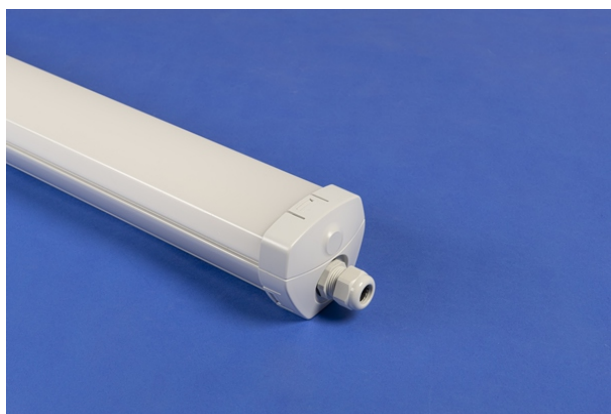
(2) Luminous flux of fitting @ 25°C for 840. (correction factor 0.95 for 830)

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (L_B) of the LED components.

(4) Ta. = +2°C ... +25 °C max for emergency.

(5) The energy efficiency class <C> is not valid for color 930.

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.





technical data type **ELX Access** **Ecoline**

Housing: Frosted PC material with UV-protection.

With 1 or 2 open endcaps.

Always with stainless steel suspension brackets.

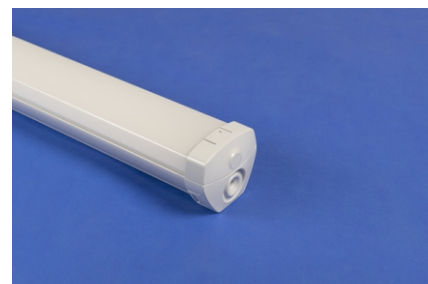
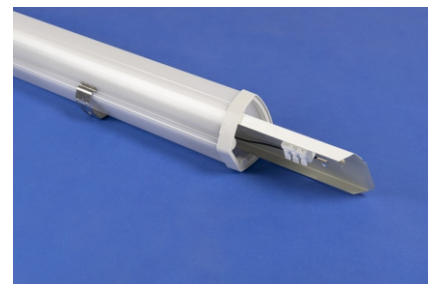
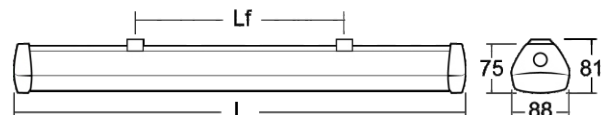
Optional: - Triangles for suspension.
- 2 glands M20 for IP66.
- Venting cable gland (membrane)

Quick connectors: IP65 Stucchi (1)
IP66 Adels and Wieland (1)
Also MPM (IP66) but not with through wiring.



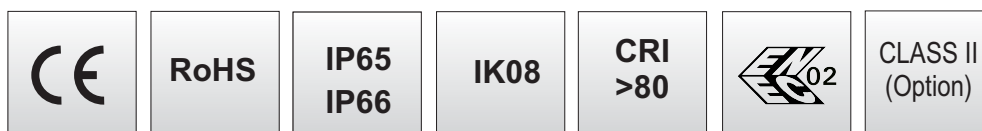
Specifications:

- Product life min. 50.000h L80 B10 at 25°C
or 35.000h L70 B10 at T_{LB}.
- Available in 3000K, 4000K, 6500K
with CRI of min.80
- MacAdam 3 SDCM
- Luminous efficiency: LER frosted diff.
up to ** 142 lm/W.
- 220-240V 50/60 Hz.
- Ta: -15°C/ till +45°C.



- **Optional :** - 1-10V and DALI.
- Trough-wiring 1 phase (3x1,5mm²) or
3 phase (5x1,5mm²). (1)
(This will influence the T_{LB}.)
- DC driver for CBS.
- EMergency (Manual test, Self-test, DALI).
- HF-Motion Sensor.
- 110 V 50/60 Hz
- Casambi + other wireless communication systems.

(1) 3/5 x 2,5 mm² is only possible in fittings equipped with quick connectors.



16/02/2024



technical data type **ELX Access** **Ecoline**

Housing	Art.	Power(1)	Flux(2)	Current (6)	T _{LB} (3)	EM(4)	EM ST/DALI (4)	EEC-LED(5)
600	Z	12 W	1570 lm	200mA	45°C	0	0	D
	-	15 W	1980 lm	250mA	45°C	0	0	D
	-	18 W	2300 lm	300mA	35°C	0	0	D
	Z	21 W	2640 lm	350mA	25°C	0	0	D
1200	-	22 W	3150 lm	200mA	45°C	√	√	D
	Q	28 W	3950 lm	250mA	45°C	√	√	D
	-	33 W	4600 lm	300mA	35°C	√	0	D
	O	39 W	5280 lm	350mA	25°C	0	0	D
1500	-	27 W	3950 lm	200mA	45°C	√	√	D
	W	35 W	4950 lm	250mA	45°C	√	√	D
	-	42 W	5770 lm	300mA	35°C	√	0	D
	P	49 W	6600 lm	350mA	25°C	0	0	D
3000	Z	70 W	9900 lm	250mA	45°C	√	√	D

(1) Total power consumption of LED's and driver. (+/- 10%)

(2) Luminous flux of fitting @ 25°C for 840. (correction factor 0.95 for 830)

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (L/B) of the LED components.

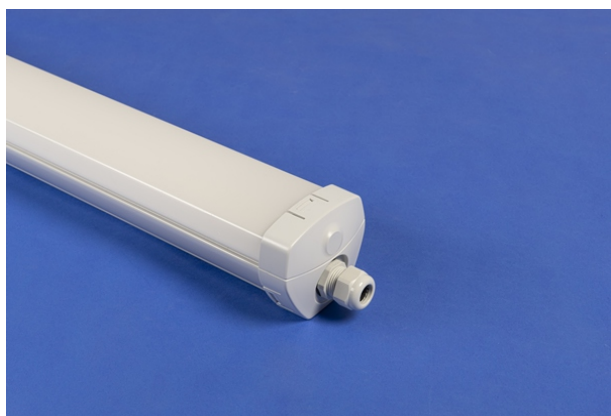
(4) Ta. = +2°C ... +25 °C max for emergency.

(5) The energy efficiency class <C> is not valid for color 930.

(6) Driver Dip-Switch setting 200/250/300/350mA.

Modification of the current is only possible on fittings without Quick connectors.

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.





technical data type **ELX LINO**

(In Line System)

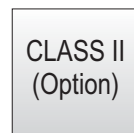
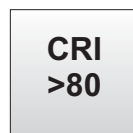
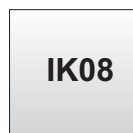
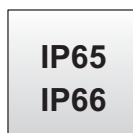
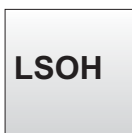
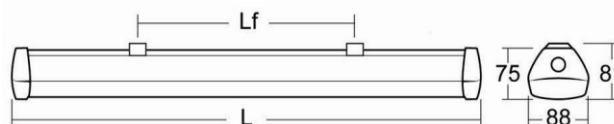
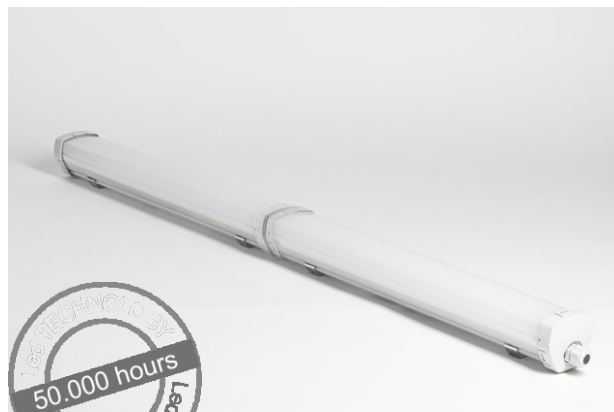
Housing: Frosted PC material, 1500 or 3000,
Connected Inline up to 33m by use of a
midcap coupling part.

Always with stainless steel suspension brackets.

- **Optional :** - triangles for suspension.
- venting cable gland (membrane)
- snap-in connector in midcap (3pol / 5pol).

Specifications:

- Product life min. 50.000h L80 B10 at T_{LB} .
or 100.000h L80 B10 at 25°C.
- Available in 3000K, 4000K, 5000 and 6500K
with CRI of min.80
- MacAdam 3 SDCM
- Luminous efficiency: LER frosted diff.
up to ** 165 lm/W.
- 220-240V 50/60 Hz. (also DC for CBS)
- T_a : -20°C/ T_a .max.
- **Optional :**
 - 1-10V and DALI.
 - Emergency (Manual test, Self-test, DALI).
 - HF-Motion Sensor.
 - Through-wiring 3x1,5mm² or 5x1,5mm²
(This will influence the T_{LB} .)
 - CRI min. 90 (930, 940, 965 on demand)
lumen correction factor 0,94.
 - 110 V 50/60Hz
 - Casambi + other wireless communication systems.
 - Special driver for industry applications.
(higher temperature and surge).



technical data type **ELX LINO**

(In Line System)

Model	Art.	Power(1)	Flux(2)	T _{LB} (3)	EM(4)	EM ST/DALI (4)	EEC-LED(5)	
1500	V	20 W	3100 lm	50°C	√	√	C	L=1450
	T	31 W	5150 lm	43°C	√	√	C	
	I	44 W	7000 lm	35°C	√	0	C	
	X	53 W	8100 lm	25°C	0	0	C	
3000	V	40 W	6200 lm	50°C	√	√	C	L=2880
	T	62 W	10300 lm	43°C	√	√	C	
	I	88 W	14000 lm	35°C	√	0	C	
	X	106 W	16200 lm	25°C	0	0	C	

(1) Total power consumption of LED's and driver.

(2) Luminous flux of fitting @ 25°C for 840. (correction factor 0.95 for 830)

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (L/B) of the LED components.

(4) Ta = +2°C ... +25°C max for emergency.

(5) The energy efficiency class <C> is not valid for color 930.

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.



technical data type FUTURIX LED

Base: Glass reinforced polyester,
Compression moulded (GRP).

- **Optional :** - Stainless steel suspension bracket.

- Double cable entry (same side), only GRP!
- Grey PC base (instead of GRP) always with stainless steel suspension brackets.
- Free fix mounting bracket, only for wide housings. (602, 1202, 1502)
- Installer can choose for any position and they give 100% safety. (IK10 – for PC/PC version)
- Wieland (IP66), Adels (IP66), Stucchi (IP65) connector, or MPM (IP66) but not for through wiring.
- Triangles for suspension.
- EPDM sealing (instead of PU)

Diffuser: special frosted polycarbonate for a smooth uniform lighting.

- **Optional :** - Clear PC diffuser: 105% lumen output.

Gear tray: white painted steel.

Clips: 1-part stainless steel clips

- **Optional :** 1-part polycarbonate clips

UL version available for delivery in components.



Specifications:

- Product life min. 50.000h L80 B10 at T_{LB} .
or 100.000h L80 B10 at $T_a.25^{\circ}C$ for all LED 1R till 60W.
- **Optional :** for >60W 100.000h L80 B50 / 50.000h L90 B10
- Available in 3000K, 4000K, 5000K and 6500K
with CRI of > 80
- MacAdam 3 SDCM
- Luminous efficiency:
LER frosted diff. up to 166 lm/W.
- 220-240V 50/60 Hz.
- $T_a: -20^{\circ}C +50^{\circ}C$.
- HACCP (certificated for food industry)
- **Optional :**
 - 1-10V and DALI.
 - DC driver for CBS.
 - Emergency (Manual test, Self-test, DALI).
 - HF-Motion Sensor.
 - Through-wiring 1 phase or 3 phase.
(This will influence the T_{LB} .)
 - CRI min. 90 (930, 940, 965 on demand)
lumen correction factor 0,94.
 - 110 V 50/60 Hz
 - Casambi + other wireless communication systems.
 - Special driver for industry applications.
(higher temperature and surge).



Stainless steel clip

Polycarbonate clip
(optional)

EN
62471
RGO



LSOH

IP65
IP66



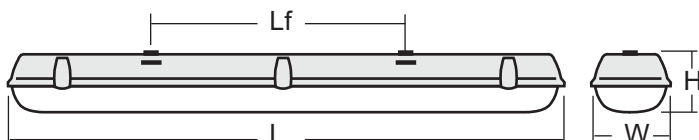
BIM
DWG(3D)



CLASS II
Option



technical data type FUTURIX LED



Housing	L	W*	H	Lf	Clips	Kg
601	665	84	98,5	400	6	1,5
1201	1275	84	98,5	800	8	1,8
1501	1575	84	98,5	1100	10	2,2
602	665	134	98,5	400	6	2,0
1202	1275	134	98,5	800	8	2,9
1502	1575	134	98,5	1100	10	3,8

*Dimensions without clips

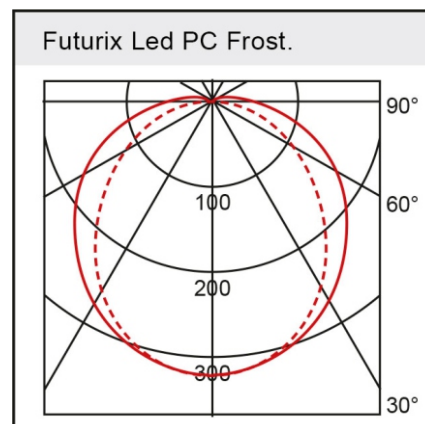
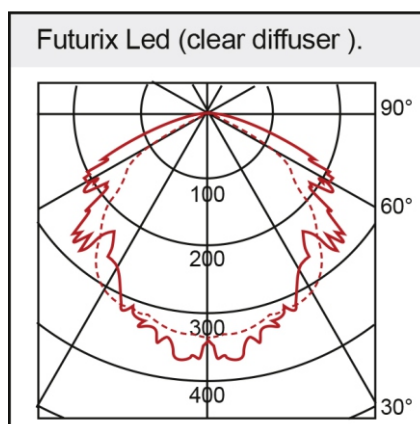
Impact strength data: body in PC and diffuser in PC + free fix bracket (IK10)
body in GRP and diffuser in PC > 6 Nm (IK08)
body in GRP and diffuser in PMMA > 0,22 Nm (IK02)

PHILIPS (SIGNIFY) Inside: Fortimo LED line 3R / Strip 1R - Xitanium driver.

Tolerance on Lf: GRP +/- 2 cm with optional bracket.
PC +/- 4 cm always with bracket.



Options: "Free fix bracket" and
"Double entry hole".



technical data type FUTURIX LED

Housing	Art.	Power ⁽¹⁾	LED	Flux ⁽²⁾	T _{LB} ⁽³⁾	EM ⁽⁴⁾	EM ST/DALI ⁽⁴⁾	EEC-LED ⁽⁵⁾
601	Z	9 W	1R	1450 lm	40°C	0	0	C
	R	13 W	1R	2000 lm	35°C	0	0	C
1201	U	17 W	1R	2750 lm	50°C	√	√	C
	S	25 W	1R	4120 lm	50°C	√	√	C
	H	35 W	1R	5600 lm	45°C	√	0	C
1501	V	20 W	1R	3110 lm	50°C	√	√	C
	T	31 W	1R	5150 lm	50°C	√	√	C
	I	44 W	1R	7000 lm	45°C	√	0	C
602	R²	13 W	1R	2000 lm	40°C	√	√	C
	A	17 W	3R	2210 lm	51°C	√	√	D
	Z	18 W	1R	2700 lm	40°C	√	√	C
	D	23 W	3R	3100 lm	40°C	√	√	D
1202	S²	25 W	1R	4120 lm	45°C	√	√	C
	B	30 W	3R	4420 lm	51°C	√	√	D
	H²	35 W	1R	5600 lm	43°C	√	√	C
	E	45 W	3R	6210 lm	40°C	√	√	D
1502	T²	31 W	1R	5150 lm	45°C	√	√	C
	C	37 W	3R	5530 lm	51°C	√	√	D
	I²	44 W	1R	7000 lm	43°C	√	√	C
	X	53 W	1R	8100 lm	40°C	√	√	C
	Y	60 W	1R	8900 lm	35°C	√	√	C
	L	76 W	3R	10500 lm	35°C	√	0	D
	K	78 W	1R	11400 lm	30°C	√	0	D

(1) Total power consumption of LED's and driver. (+/- 10%)

(2) Luminous flux of fitting @ 25°C for 840, 850 and 865. (correction factor 0,95 for 830)

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (LB) of the LED components.

(4) Ta = +2°C...+25°C max for emergency.

(5) This product contains a light source of energy efficiency class <C> or <D>.

The energy efficiency class <C> is not valid for color 930.



“3R”

“1R”

High quality PHILIPS chipboard LED (optional)

IP65/IP66 connectors
(optional)

Stainless steel suspension
bracket (optional for GRP)



technical data type FUTURIX Ecoline

Base: Grey polycarbonate (with UV-protection) and stainless steel suspension brackets. Housings 118 and 218 are always GRP.

- **Optional :** - Glass reinforced polyester, compression moulded (GRP)
 - Triangles for suspension
 - 2 Glands M20 for IP66.
 - Quick connectors: IP65 Stucchi IP66 Adels en Wieland
 - Free fix mounting bracket, only for wide housings. (602, 1202, 1502)
- Installer can choose for any position and they give 100% safety. (IK10 – for PC/PC version)

Diffuser: is made of a special frosted polycarbonate (with UV-protection) for a smooth uniform lighting.

- **Optional:** - Clear PC diffuser: 105% lumen output.

Impact strength data of the diffuser:
diffuser in PC > 6 Nm (IK10)

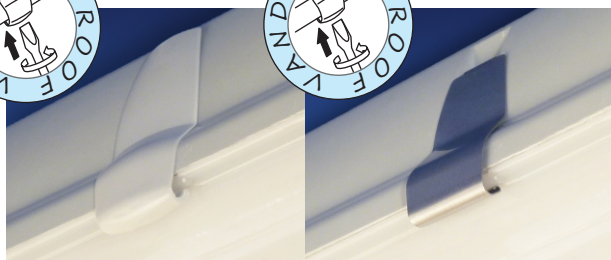
Clips: 1-part polycarbonate clips.

- **Optional:** 1-part stainless steel clips.



Specifications:

- Dip-Switch driver with 4 output currents.
- Product life min. 50.000h L80 B10 at 25°C.
35.000h L70 B10 at 45°C (Ta max)
- Available in 4000K with CRI of min. 80.
Optional : 3000K, 6500K.
- MacAdam : 3 SDCM
- Luminous efficiency: up to ** 142 lm/W.
- 220-240V 50/60 Hz.
- Ta: -15°C/+45°C.
- **Optional :**
 - 1-10V and DALI
 - Trough-wiring. (This will influence slightly the T_{LB}.)
 - DC driver for CBS
 - EMergency (Manual test, Self-test, DALI).
 - HF-Motion Sensor.
 - 110 V 50/60 Hz
 - Casambi + other wirelessCommunication systems.



Polycarbonate clip

Stainless steel clip (optional)



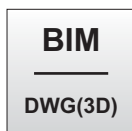
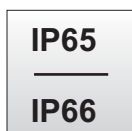
IP65/IP66 connectors (optional)

Stainless steel suspension bracket



Options: "Free fix bracket" and "Double entry hole".

High quality linear LED strip.



technical data type FUTURIX

Ecoline

Housing	Art.	Power(1)	Flux(2)	Current(5)	EM(3)	EM ST/DALI (3)	EEC-LED (4)
601	Z	12 W	1570 lm	200 mA	0	0	D
	-	15 W	1980 lm	250 mA	0	0	D
1201	-	22 W	3150 lm	200 mA	√	√	D
	Q	28 W	3950 lm	250 mA	√	√	D
1501	-	27 W	3950 lm	200 mA	√	√	D
	W	35 W	4950 lm	250 mA	√	√	D
602	Z	12 W	1570 lm	200 mA	√	√	D
	-	15 W	1980 lm	250 mA	√	√	D
	-	18 W	2300 lm	300 mA	√	√	D
	Z	21 W	2640 lm	350 mA	√	√	D
1202	-	22 W	3150 lm	200 mA	√	√	D
	Q	28 W	3950 lm	250 mA	√	√	D
	-	33 W	4600 lm	300 mA	√	√	D
	O	39 W	5280 lm	350 mA	√	√	D
1502	-	27 W	3950 lm	200 mA	√	√	D
	W	35 W	4950 lm	250 mA	√	√	D
	-	42 W	5770 lm	300 mA	√	√	D
	P	49 W	6600 lm	350 mA	√	√	D

(1) Total power consumption of LED's and driver.

(2) Luminous flux of fitting @ 25°C for 840. (correction factor 0,95 for 830)

(3) Ta. = +2°C...+25 °C max for emergency.

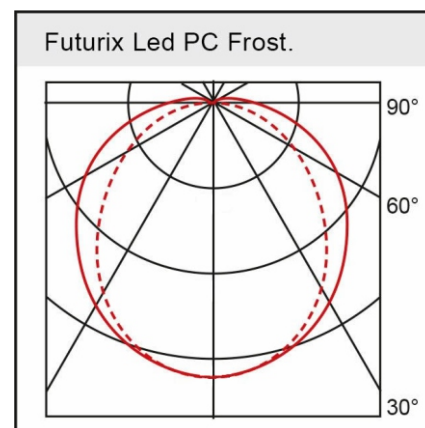
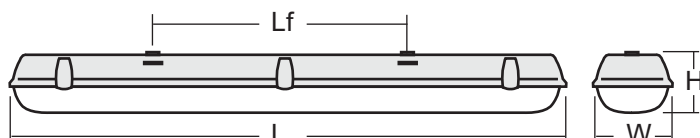
(4) This product contains a light source of energy efficiency class <D>.

(5) Driver Dip-Switch setting 200/250/300/350 mA

Luminous output and electrical load have an initial tolerance of +/-10% from nominal.

Housing	L	W*	H	Lf	Clips	Kg
601	665	84	98,5	400	6	1,5
1201	1275	84	98,5	800	8	1,8
1501	1575	84	98,5	1100	10	2,2
602	665	134	98,5	400	6	2,0
1202	1275	134	98,5	800	8	2,9
1502	1575	134	98,5	1100	10	3,8

*Dimensions without clips





technical data type FUTURIX LED HT

Special version for high ambient temperature.

Base: Glass reinforced polyester, compression moulded (GRP).

- **Optional :** - Stainless steel suspension bracket.

- Double cable entry (same side), only GRP!
- Grey PC base (instead of GRP) always with stainless steel suspension brackets.
- Free fix mounting bracket, only for wide housings. (602, 1202, 1502)

Installer can choose for any position and they give 100% safety. (IK10 – for PC/PC version)

- Wieland (IP66), Adels (IP66), Stucchi (IP65) connector.
- Triangles for suspension.
- EPDM sealing (instead of PU)

Diffuser: special frosted polycarbonate for a smooth uniform lighting.

- **Optional :** - Clear PC diffuser: 105% lumen output.
- Acrylic frosted diffuser (PMMA).

Gear tray: white painted steel.

Clips: 1-part stainless steel clips.



High quality PHILIPS SIGNIFY chipboard LED



Specifications:

- Special industrial driver for higher temperatures.
- Product life min. 50.000h L80 B10 at Ta.max or 70.000h L70 B10 at Ta.max.
- Available in 3000K, 4000K, 5000K and 6500K with CRI of >80
- MacAdam 3 SDCM
- Luminous efficiency: LER frosted diff. up to ** 166 lm/W.
- 220-240V 0/50/60 Hz. (also DC for CBS)
- Ta: -20°C/Ta.max.
- HACCP (certificated for food industry)
- **Optional :** - Trough-wiring 1 phase or 3 phase.
(This will influence the Ta.max.)
- CRI min. 90 (930, 940) correction factor 0,85.
- DALI

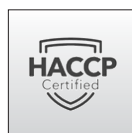
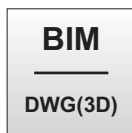
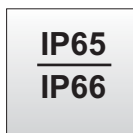
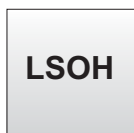
Housing Art.	Power(1)	LED	Flux(2)	Ta.max.	EEC-LED(3)
1202	U 17 W	1R	2750 lm	55°C	C
	S 25 W	1R	4120 lm	60°C	C
	B 30 W	3R	4420 lm	60°C	D
1502	V 20 W	1R	3110 lm	55°C	C
	T 31 W	1R	5150 lm	60°C	C
	C 37 W	3R	5530 lm	60°C	D

(1) Total power consumption of LED's and driver. (+/- 10%)

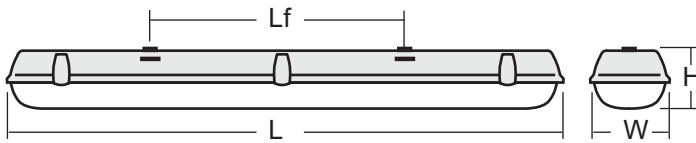
(2) Luminous flux of fitting @ 25°C for 840, 850 and 865.
(correction factor 0,95 for 830)

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

(3) This product contains a light source of energy efficiency class <C> or <D>. The energy efficiency class <C> is not valid for color 930.



technical data type FUTURIX LED HT

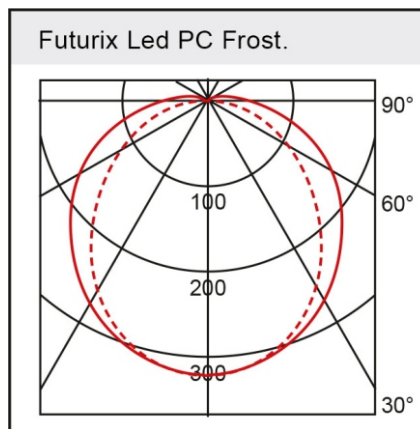
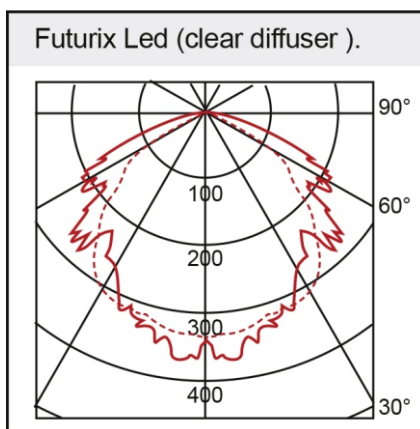


Housing	L	W*	H	Lf	Clips	Kg
1202	1275	134	98,5	800	8	2,9
1502	1575	134	98,5	1100	10	3,8

*Dimensions without clips

Impact strength data of the diffuser: diffuser in PC > 6 Nm (IK08)
diffuser in PMMA > 0,22 Nm (IK02)

PHILIPS (SIGNIFY) Inside: Fortimo LED line 3R / Strip 1R - Xitanium driver



IP65/IP66 connector
(optional)

Stainless steel suspension
bracket (optional)



Options: „Free fix bracket“ and
„Double entry hole“

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website www.vlux.com
ISO 9001 certified company.





technical data type **PAS LED**

Base : Glass reinforced polyester, compression moulded (GRP)

- **Optional:** - Stainless steel suspension bracket. (free fixed)
- Double cable entry (same side).
- Wieland (IP67), Adels (IP66) or Stucchi (IP65) and MPM(IP66) connector but not for through wiring.
- Triangles for suspension

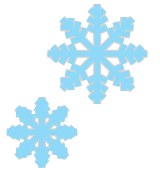
Diffuser : Special frosted polycarbonate (PC) for smooth uniform lighting.

- **Optional:** - Clear PC diffuser. (see also PAC type)
- Acrylic frosted diffuser (PMMA) only wide body 218, 236 and 258

Gear Tray : White painted steel

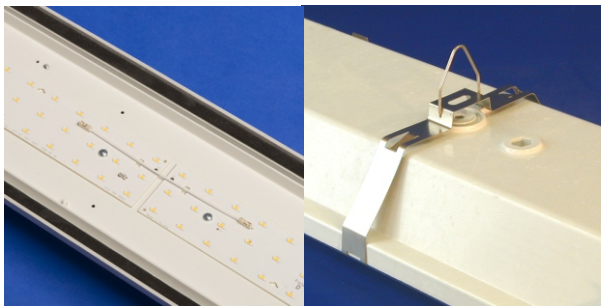
Clips : 2-part stainless steel clips.
2 cable glands M20 (PA) included.

- **Optional :** - 3-part polycarbonate clips.



Special PAS "FRIDGE" :

- See separate datasheet.
- Version for industrial cold storage (up to **-30°C**)

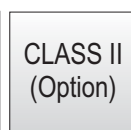
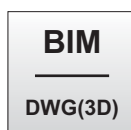
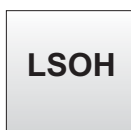
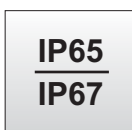


High quality
PHILIPS chipboard LED

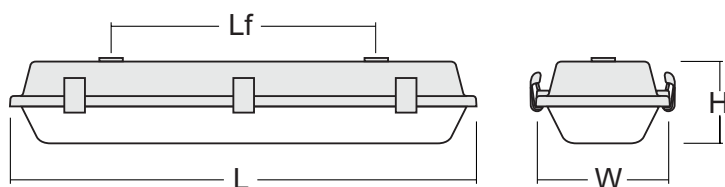
Stainless steel susp.
bracket (optional) IP67

LED Specifications :

- Product life min. 50.000h L80 B10 at T_{LB} .
or 100.000h L80 B10 at 25°C for all LED 1R till 60W.
- Available in 3000K, 4000K, 5000K and 6500K
with CRI of > 80.
- MacAdam 3 SDCM.
- Luminous efficiency: LER frosted diff. up to ** 163 lm/W.
- 220-240V 50/60Hz.
- T_a : -20°C till +55°C.



technical data type **PAS LED**



Lf : adjustable distance of mounting brackets.

Housing	L	W*	H	Lf	Clips	Kg
601	702	102	105	500	6	2.0
1201	1312	102	105	800	8	2.9
1501	1612	102	105	1100	10	3.6
602	702	172	105	500	6	2.2
1202	1312	172	105	800	8	3.8
1502	1612	172	105	1100	10	4.8

Impact strength data of the diffuser:

diffuser in PC > 6 Nm (IK08)
diffuser in PMMA > 0,22 Nm (IK02)

PHILIPS (SIGNIFY) inside :

Fortimo LED line 3R/Strip 1R- Xitanium driver



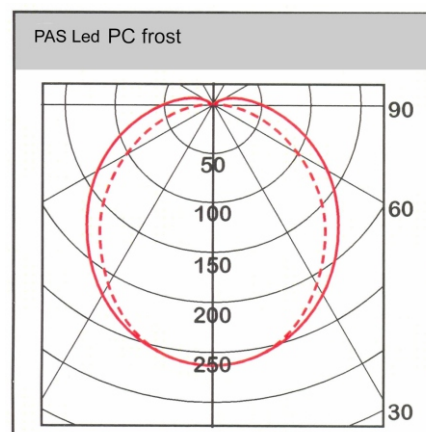
Secured with screws

Double cable-entry (optional)



3-part polycarbonate clips (optional)

Retainer for stainless steel clips



technical data type PAS LED

Electrical specifications :

- **Optional:** - 1-10V and DALI. (not for housing 601)
- EMErgency (Manuel-Test, Self-Test, DALI).
- DC driver for CBS.
- HF-Motion sensor.
- Trough-wiring 1 phase or 3 phase (this will influence the Ta.max.).
- CRI min.90 (930, 940 , 965 on demand) lumen correction factor 0,94
- 110V 50/60 Hz
- Casambi + other wireless communication systems.
- Special driver for Industry applications (higher temperature and surge).

Housing	Art.	Power(1)	LED	Flux(2)	T _{LB} (3)	EM(4)	EM ST/DALI(4)	EEC-LED(5)
601	R	13 W	1R	1960 lm	35 °C	0	0	C
1201	U	17 W	1R	2700 lm	50 °C	√	√	C
	S	25 W	1R	4040 lm	50 °C	√	√	C
	H	35 W	1R	5490 lm	45 °C	√	0	C
1501	V	20 W	1R	3050 lm	50 °C	√	√	C
	T	31 W	1R	5050 lm	50 °C	√	√	C
	I	44 W	1R	6860 lm	45 °C	√	0	C
602	R²	13 W	1R	1960 lm	40 °C	√	√	C
	A	17 W	3R	2165 lm	53 °C	√	√	D
	D	23 W	3R	3040 lm	42 °C	√	√	D
1202	S²	25 W	1R	4040 lm	47 °C	√	√	C
	B	30 W	3R	4330 lm	53 °C	√	√	D
	H²	35 W	1R	5490 lm	42 °C	√	√	C
	E	45 W	3R	6080 lm	45 °C	√	√	D
1502	T²	31 W	1R	5050 lm	47 °C	√	√	C
	C	37 W	3R	5420 lm	53 °C	√	√	D
	I²	44 W	1R	6860 lm	42 °C	√	√	C
	X	53 W	1R	7940 lm	40 °C	√	√	C
	Y	60 W	1R	8730 lm	35 °C	√	√	C
	G	66 W	3R	8850 lm	42 °C	√	0	D
	L	76 W	3R	10300 lm	40 °C	√	0	D
	K	78 W	1R	11170 lm	33 °C	√	√	D
	N	82 W	3R	12000 lm	40 °C	0	0	D
	Z	92 W	1R	13700 lm	40 °C	0	0	D
	Z	104 W	3R	14000 lm	25 °C	0	0	D

(1) Total power consumption of LED's and driver. (+/- 10%)

(2) Luminous flux of fitting @ 25°C for 840, 850 and 865 (correction factor 0.95 for 830)

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (LB) of the LED components.

(4) Ta.= +2°C +25 °C max for emergency.

(5) This product contains a light source of energy efficiency class <C> or <D>.

The energy efficiency class <C> is not valid for color 930.

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

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ISO 9001 certified company





technical data type PAS FARM LED

Base : Glass reinforced polyester, compression moulded (GRP)
- Optional : Double cable entry (same side).

Diffuser : Clear PS
- Optional : PMMA Frosted diffuser (only 236)

Impact strength data of the diffuser:
 diffuser in PS > 0,22 Nm (IK02)
 diffuser in PMMA > 0,22 Nm (IK02)

Clips : 2-part stainless steel clips.
 2 cable glands M20 (PA) included.

Special for the farming industry providing high protection against aggressive ammonia gas in farmhouses.

Following local animal health regulations.

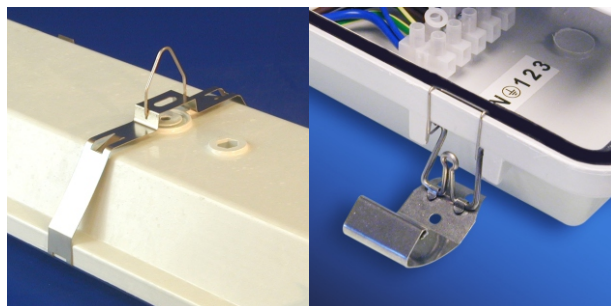
Note :

- The temperature and concentration of a chemical substance may significantly affect its compatibility with materials.



Electrical specifications :

- Product life min. 50.000h L80 B10 at Ta.max
- Available in 3500K, 4000K and 5000K with CRI of min.83
- MacAdam 3 SDCM.
- Luminous efficiency : up to ** 133 lm/W.
- 220-240V 0/50/60Hz.
- Ta: -20°C / Ta.max +40°C
- **Optional:** - Through-wiring in polyester housing (this will influence the Ta.max.).
- CRI min.92.



Stainless steel susp. bracket IP67

Keeper for inox clips



Toyoda Gosei LED tube

Housing	Power*	Flux**	Ta.max
- Toyoda Gosei LED tube			
136	20 W	2500 lm	40 °C
	30 W	3800 lm	40 °C
158	25 W	3090 lm	40 °C
	35 W	4480 lm	40 °C
236	39 W	5070 lm	40 °C
	58 W	7650 lm	35 °C

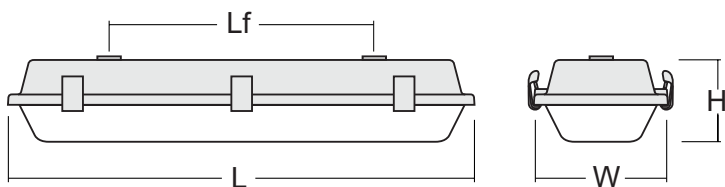
* Total power consumption of Led tube's and driver. (+/- 10%)

** Luminous flux of fitting @ 25°C for 840 and 850 (correction factor 0.95 for 830)

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.



technical data type **PAS FARM LED**



Housing	L	W*	H	Lf	Clips	Kg
136	1312	102	105	800	8	2.5
158	1612	102	105	1100	10	3.5
236	1312	172	105	800	8	3.7



Double cable-entry
(optional)



technical data type **PAS Fridge**

Special wiring and gear for industrial cold storage (up to -30°C).



Base : Glass reinforced polyester, compression moulded (GRP)

- **Optional :** - Stainless steel suspension bracket.
- Double cable entry (same side).
- Wieland, Adels or Stucchi connector.
- Triangles for suspension.

Diffuser : is made of special frosted polycarbonate (PC) for smooth uniform lighting.

- **Optional :** Clear diffuser (see PAC).

Impact strength data of the diffuser:
diffuser in PC > 6 Nm (IK08)

Clips : 2-part stainless steel clips with retainers.
2 cable glands M20 (PA) included.

Specifications :

- Product life min. 50.000h L80 B10 at Ta.max or 70.000h L70 B10 at Ta.max.
- Available in 3000K, 4000K and 5000K, also 6500K on demand.
- CRI of min.80
- MacAdam 3 SDCM.
- Luminous efficiency : up to ** 163 lm/W.
- 220-240V 0/50/60Hz (also DC for CBS).
- Ta: -30°C / Ta.max.
- Special driver for industry applications (Higher and lower temperature).

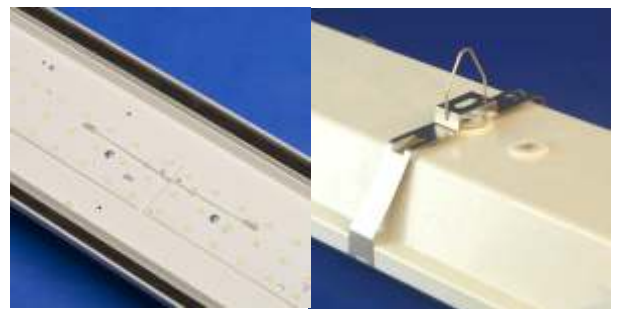
- **Optional:**

- DALI.
- High frequency motion detector.
- Trough-wiring in polyester housing
- CRI min.90. (930, 940) correction factor 0,94. (on demand)



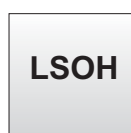
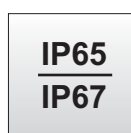
Optional: Clear diffuser

Retainer for stainless steel clips



High quality PHILIPS chipboard LED

Stainless steel susp. bracket (optional) IP67



16.02.2024



technical data type PAS FRIDGE

Housing	Art.	Power(1)	LED	Flux(2)	EEC-LED(3)
1201	S	25 W	1R	4040 lm	C
	H	35 W	1R	5490 lm	C
1501	T	31 W	1R	5050 lm	C
	I	44 W	1R	6860 lm	C
1202	S²	25 W	1R	4040 lm	C
	H²	35 W	1R	5490 lm	C
1502	T²	31 W	1R	5050 lm	C
	I²	44 W	1R	6860 lm	C
	X	53 W	1R	7940 lm	C
	Y	60 W	1R	8730 lm	C
	L	76 W	3R	10290 lm	D
	K	78 W	1R	11170 lm	D
	N	82 W	3R	12000 lm	D
	Z	92 W	1R	13700 lm	D
	Z	104 W	3R	14000 lm	D

(1) Total power consumption of LED's and driver. (+/- 10%)

(2) Luminous flux of fitting @ 25°C for 840, 850 and 865 (correction factor 0.95 for 830)

(3) This product contains a light source of energy efficiency class <C> or <D>.
The energy efficiency class <C> is not valid for color 930.

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

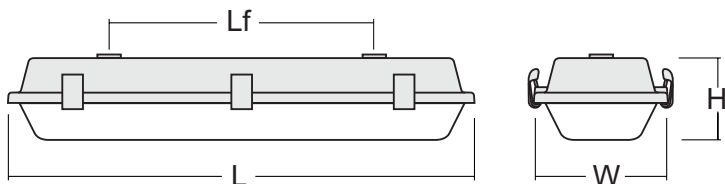
VLUX

Industrieweg Roosveld
3400 LANDEN BELGIUM

Tel + 32 11 88 09 00

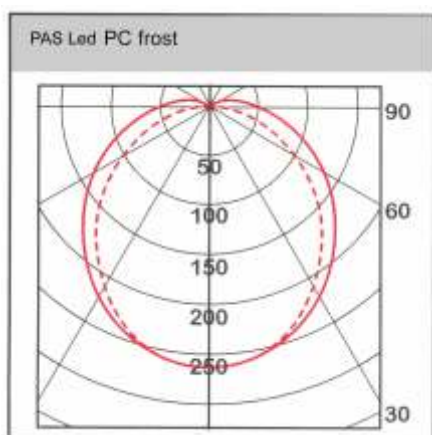
website www.vlux.com
ISO 9001 certified company

technical data type **PAS FRIDGE**



Housing	L	W*	H	Lf	Clips	Kg
158	1612	102	105	1100	10	3.6
236	1312	172	105	800	8	3.8
258	1612	172	105	1100	10	4.8

*Dimensions without clips



Secured with screws

Double cable-entry
(optional)



technical data type **PAC LED**

Base : Glass reinforced polyester, compression moulded (GRP)

- **Optional :** - Stainless steel suspension bracket
 - Double cable entry (same side)
 - IP66 Stucchi, Adels or Wieland connector

Diffuser : Clear blow molded diffuser, available in PC or PMMA :

- Diffuser in PC : ≥ 6 NM (IK10)

Optic Narrow Beam lenses

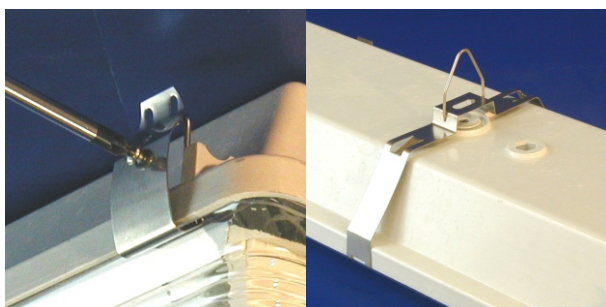
- **Optional :** Wide Beam lenses

Clips : Stainless steel clips
2 cable glands M20 (PA) included



"FRIDGE" option : See also PAS Fridge.

- Special wiring and gear for industrial cold storage (up to -30°C)
- Stainless steel clips with retainers.



Stainless steel clip,
or vandal proof clip

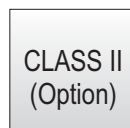
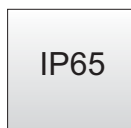
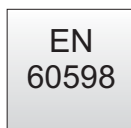
Stainless steel
suspension bracket
(optional)



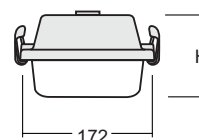
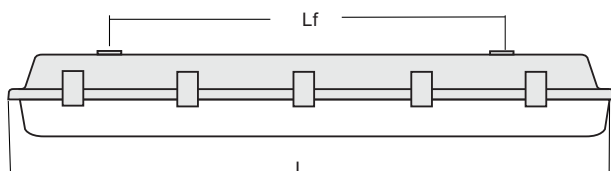
Chipboard LED with
lenses

Specifications :

- Product life min. 50.000h L80 B10 at T_{LB} .
or 70.000h L70 B10 at T_{LB} .
- Available in 3000K, 4000K and 5000K with CRI of min.80
- Luminous efficiency : up to ** 138 lm/W
- 220-240V 50/60Hz
- T_a : -20°C till $+55^{\circ}\text{C}$.
- DC driver for CBS
- **Optional:** - 1-10V and DALI
 - Emergency
 - High frequency motion detector
 - Trough-wiring in polyester housing
(This will influence slightly the T_{LB} .)
 - CRI min.90 correction factor 0,94.
(on demand)



technical data type PAC LED



Housing	Clips	H	L	Lf
1202	8	104	1312	800
1502	10	108	1612	1100

*Dimensions without clips

Housing	Art.	Power(1)	LED	Flux(2)	T _{LB} (3)	EM(4)	EM ST/DALI(4)	EEC-LED(5)
1202	B	30 W	3R	4400 lm	45 °C	√	√	D
	E	45 W	3R	6200 lm	38 °C	√	√	D
1502	G	66 W	3R	9010 lm	35 °C	√	0	D
	L	76 W	3R	10200 lm	35 °C	√	0	D
	N	82 W	3R	11800 lm	25 °C	0	0	D

(1) Total power consumption of LED's and driver. (+/- 10%)

(2) Luminous flux of fitting @ 25°C for 840, 850 and 865 (correction factor 0.95 for 830)

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (LB) of the LED components.

(4) Ta.= +2°C +25 °C max.

(5) This product contains a light source of energy efficiency class <D>.

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.



technical data type **PLedX**

Base : Glass reinforced polyester, compression moulded (GRP)

Standard inclusive 2 glands M20 (IP68)

- **Optional** : - Stainless steel suspension bracket
- Double cable entry (same side)
- Wieland, Adels or Stucchi connector

Diffuser : is made of special frosted PC for smooth uniform lighting

- **Optional** : Clear diffuser in PC or PMMA

Clips : 2-part stainless steel clips

- **Optional** : 3-part polycarbonate clips



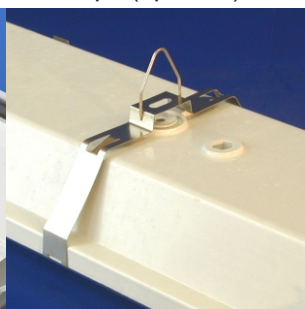
Secured with screws



3-part polycarbonate clips (optional)



High quality PHILIPS chipboard LED



Stainless steel susp. bracket (optional)



Retainer for stainless steel clips



Double cable-entry (optional)

Impact strength data of the diffuser :

diffuser in PC : > 6 Nm (IK08)

Specifications :

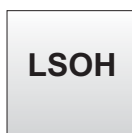
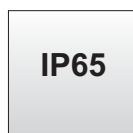
- Product life min. 50.000h L80 B10 at Ta.max or 70.000h L70 B10 at Ta.max
- Available in 3000K, 4000K, 5000K and 6500K with CRI of min.80
- MacAdam : 3 SDCM
- Luminous efficiency : up to ** 145 lm/W.
- 220-240V 0/50/60Hz. (also for CBS)
- Ta: -20°C / Ta.max.
- **Optional**: - 1-10V and Dali.
- Emergency (not for housing 218).
- High frequency motion detector. (not for housing 218)
- Trough-wiring in polyester housing. (This will influence slightly the Ta.max.)
- CRI min. 90 correction factor 0,85. (on demand)

Housing	Power*	Flux**	Ta.max
218 (frosted)	17 W	2150 lm	45 °C
	23 W	3000 lm	35 °C
236 (frosted)	30 W	4300 lm	45 °C
	45 W	6000 lm	35 °C
270 (clear)	78 W	10360 lm	35 °C

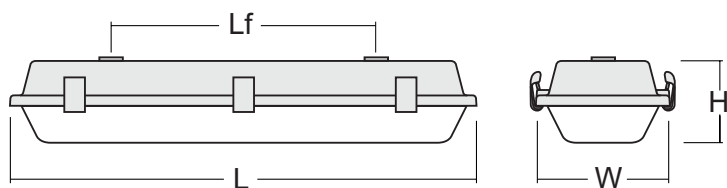
* Total power consumption of Led's and driver. (+/- 10%)

** Luminous flux of fitting @ 25°C for 840 and 850 (correction factor 0.95 for 830)

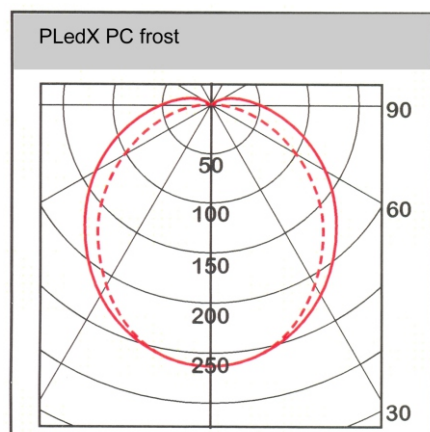
Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

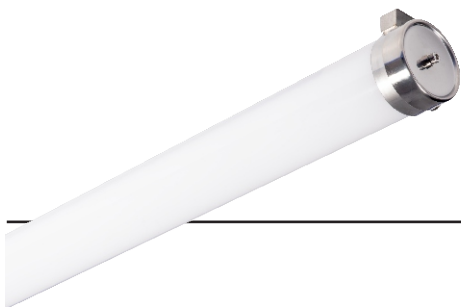


technical data type **PLedX**



Housing	L	W*	H	Lf	Clips	Kg
218	702	172	105	500	6	2.4
236	1312	172	105	800	8	3.7
270	1874	172	105	1100	14	6.0





technical data type **TUBE 80**

„Industrial high-end weatherproof luminaire with robust construction“

Base: Impact proof PC housing with UV-protection. IK10

- End caps in AISI 304 and free fix mounting brackets.
- *Optional* : AISI 316 steel.
- Connection: Wieland (IP67) or Stucchi (IP65) connector.
- Silicone Gasket.

Diffuser: Special frosted polycarbonate for a smooth uniform lighting. UV-protected.

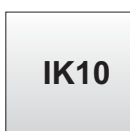
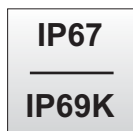
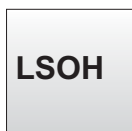
- *Optional* : - Clear PC diffuser: 105% lumen output.
- Frosted PMMA diffuser (IK06)

Gear tray: Aluminium



Specifications:

- Product life min. 50.000h L80 B10 at T_{LB} or 100.000h L80 B10 at 25°C.
- *Optional* : 100.000h L80 B50 / 50.000h L90 B10
- Available in 3000K, 4000K, 5000K and 6500K with CRI of > 80
- MacAdam 3 SDCM
- Luminous efficiency:
LER frosted diff. up to 139 lm/W.
- 220-240V 50/60 Hz.
- Ta: -20°C till +50°C.
- *Optional* :- 1-10V and DALI.
- DC driver for CBS.
- EMERGENCY (Manual-test, Self-test, DALI).
- Sensor
- Trough-wiring 1 phase or 3 phase.
(This will influence the $T_{a,max}$.)
- CRI min. 90 (930, 940)
correction factor 0,85.
- 110 V 50/60 Hz.
- Casambi + other wireless communication systems.
- With external cable.
- Special driver for industry applications
(higher temperature and surge)

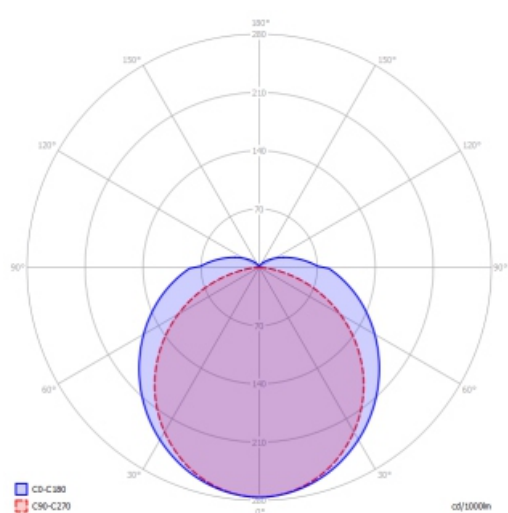


technical data type **TUBE 80**

Housing	L	W	H	Lf	Kg
600	600	80	102	300 - 500	1,7
1200	1200	80	102	500 - 1100	2,0
1500	1500	80	102	500 - 1400	2,4

Impact strength data: Tube in PC + free fix bracket (IK10)

PHILIPS (SIGNIFY) Inside: Fortimo LED / Strip 1R - Xitanium driver.



technical data type **TUBE 80**

Housing	Art.	Power(1)	LED	Flux(2)	T _{LB} (3)	EM(4)	EMST/DALI(4)	EEC-LED(5)
600	Z	9 W	1R	1260 lm	40°C	0	0	C
	R	13 W	1R	1740 lm	35°C	0	0	C
1200	U	17 W	1R	2390 lm	45°C	√	√	C
	S	25 W	1R	3590 lm	40°C	√	√	C
	H	35 W	1R	4870 lm	35°C	√	0	C
1500	V	20 W	1R	2700 lm	45°C	√	√	C
	T	31 W	1R	4480 lm	40°C	√	√	C
	I	44 W	1R	6090 lm	35°C	√	0	C
	X	53 W	1R	7050 lm	30°C	0	0	C

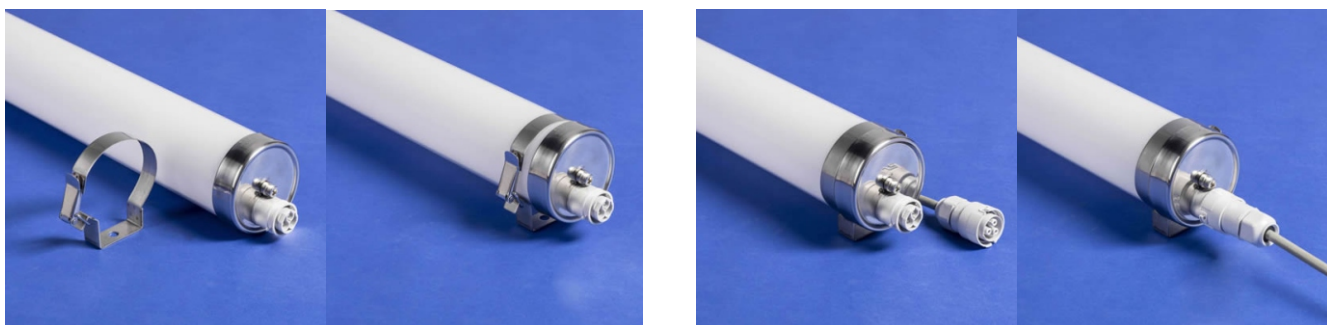
(1) Total power consumption of LED's and driver. (+/- 10%)

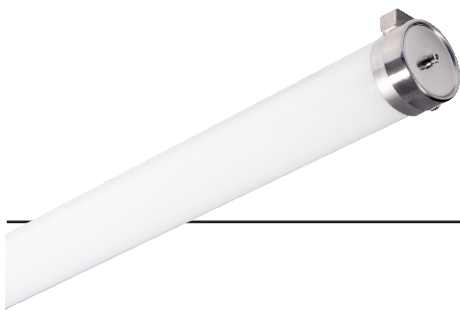
(2) Luminous flux of fitting @ 25°C for 840, 850 and 865. (Correction factor 0,95 for 830)
Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (LB) of the LED components.

(4) Ta = +2°C...+25°C max.

(5) This product contains a light source of energy efficiency class <C> or <D>.
The energy efficiency class <C> is not valid for color 930.





technical data type **TUBE 80** **Ecoline**

„Industrial high-end weatherproof luminaire with robust construction“

Base: Impact proof PC housing with UV-protection. IK10

- End caps AISI304.
- Free fix mounting bracket AISI304.
- Connection: Wieland or Stucchi (IP65) connector.
- Silicone Gasket.

Diffuser: Special frosted polycarbonate for a smooth uniform lighting. UV-protected.

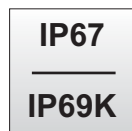
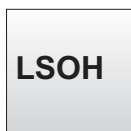
- *Optional* : - Clear PC diffuser: 105% lumen output.
- Frosted PMMA diffuser

Gear tray: Aluminium



Specifications:

- Dip-Switch driver with 4 output currents.
- Product life min. 50.000h L80 B10 at 25°C.
35.000h L70 B10 at 45°C (T_{LB})
- Available in 4000K with CRI of min. 80.
Optional : 3000K, 6500K.
- MacAdam : 3 SDCM
- Luminous efficiency: up to ** 123 lm/W.
- 220-240V 50/60 Hz.
- Ta: -15°C/+45°C.
- *Optional* :
 - 1-10V and DALI
 - Trough-wiring. (This will influence slightly the T_{LB}.)
 - DC driver for CBS
 - EMERGENCY (Manual test, Self-test, DALI).
 - HF-Motion Sensor.
 - 110 V 50/60 Hz
 - Casambi + other wireless Communication systems.



16/02/2024



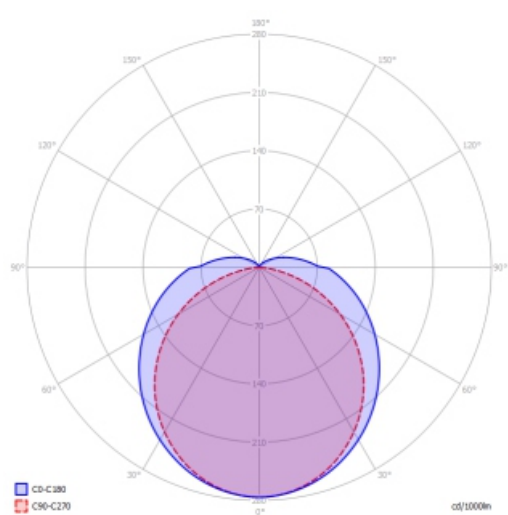
technical data type **TUBE 80** **Ecoline**

Housing	L	W	H	Lf	Kg
600	600	80	102	300 - 500	1,7
1200	1200	80	102	500 - 1100	2,0
1500	1500	80	102	500 - 1400	2,4

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Impact strength data: Tube in PC + free fix bracket (IK10)



technical data type **TUBE 80** **Ecoline**

Housing	Art.	Power(1)	Flux(2)	T _{LB} (3)	EM(4)	EMST/DALI(4)	EEC-LED(5)
600	Z	12 W	1370 lm	45°C	0	0	D
	Z	21 W	2300 lm	25°C	0	0	D
1200	Q	28 W	3440 lm	45°C	√	√	D
	O	39 W	4600 lm	25°C	0	0	D
1500	W	35 W	4300 lm	45°C	√	√	D
	P	49 W	5740 lm	25°C	0	0	D

(1) Total power consumption of LED's and driver. (+/- 10%)

(2) Luminous flux of fitting @ 25°C for 840, 850 and 865. (Correction factor 0,95 for 830)

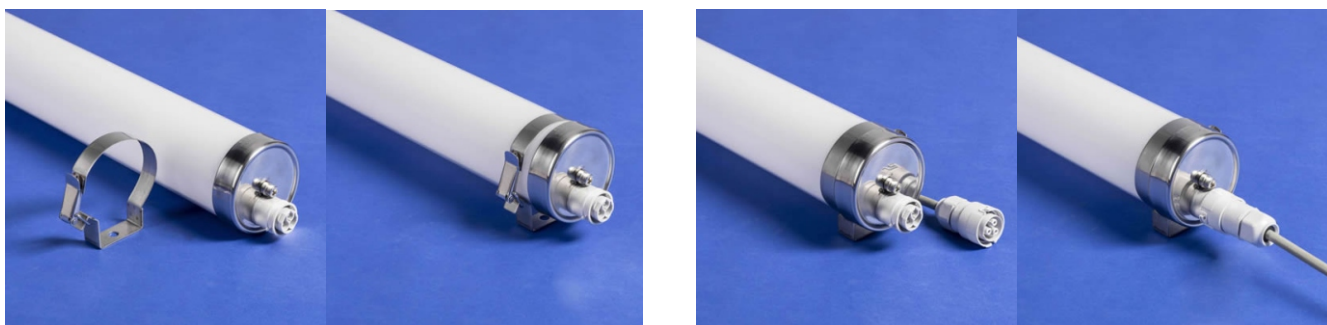
Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.

(3) T_{LB} is the maximum ambient temperature Ta(°C) for continuous use to achieve the total lifetime (LB) of the LED components.

(4) Ta = +2°C...+25°C max.

(5) This product contains a light source of energy efficiency class <C> or <D>.

The energy efficiency class <C> is not valid for color 930.





technical data type LILI LED

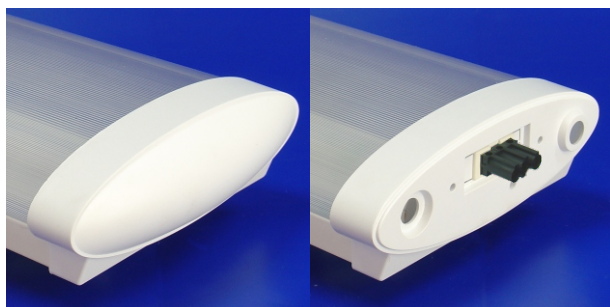
LILI, the LI near LIghting:

- The fitting consists of a white metal back plate, a white metal gear tray, a plastic extruded frosted diffuser and standard white plastic injected endcaps.
- The cover guarantees an efficient direct/indirect light.
- The plastic diffuser is snap-in mounted on the metal backplate and is easy removable without any tool.
Material : PMMA (frosted)
- **Optional** :- Convex endcap
 - In-line version Midcap (not for small !)
 - Version for LED tubes is also possible.



Electrical specifications:

- Individual or "in-line" luminaires (max 16A).
- 3000, 4000 K with CRI of min. 80
- 80.000h L80 B50 at Ta.max
- MacAdam 3 SDCM
- **Optional** :- DALI driver
 - MOTION DETECTOR
 - EMERGENCY Module



Option: Convex Endcap
(PS high impact)
(IP 40)

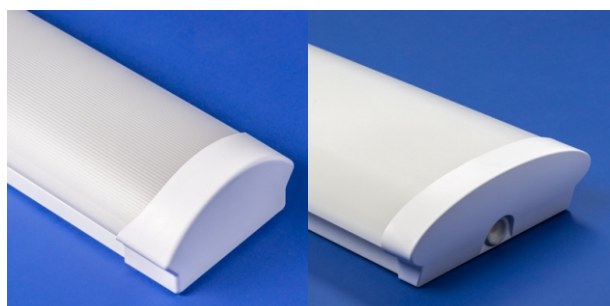
"Midcap" for in-line
assembly (only for WIDE)
(IP 40)

SMALL:

Length	Power*	Flux**	Ta.max
630	12 W	1300 lm	35°C
630	20 W	2500 lm	27°C
1200	18 W	2600 lm	35°C
1200	36 W	5400 lm	27°C
1500	47 W	6900 lm	35°C
1500	58 W	8200 lm	27°C

WIDE:

Length	Power*	Flux**	Ta.max
1200	25 W	3640 lm	35°C
1200	31 W	4300 lm	30°C
1200	36 W	5010 lm	27°C
1500	30 W	4380 lm	35°C
1500	41 W	5700 lm	30°C
1500	47 W	6570 lm	27°C



SMALL

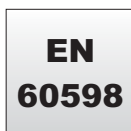
WIDE



Easy access
(no tools necessary)



16.02.2024



* Total power consumption of LED's and driver.

** Luminous flux of fitting @ 25°C for 840
(correction factor 0.95 for 830)

Luminous output and electrical load
have an initial tolerance of
+/- 10 % from nominal.

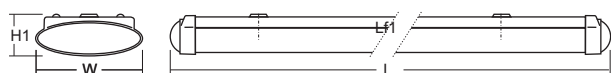


technical data type LILI LED

LiLi LED SMALL	L	W	H1	Lf1	Lf3	Kg
630	630	110	60	498	-	1,5
1200	1210	110	60	800	710	2,1
1500	1500	110	60	1000	910	3,0

LiLi LED WIDE

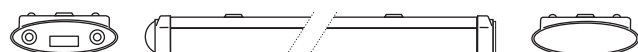
1200	1293	208	77	800	710	4,0
1500	1550	208	77	1000	910	4,4



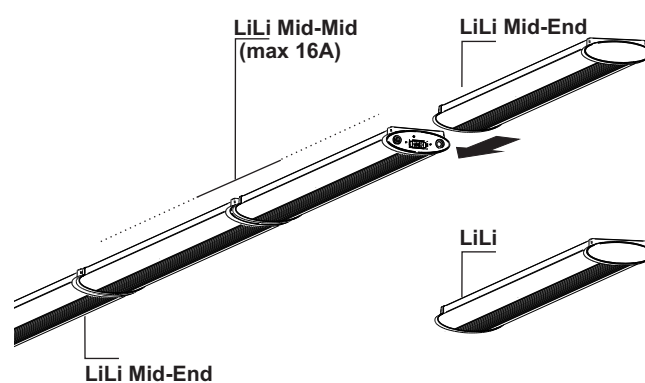
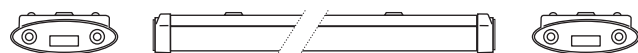
LiLi

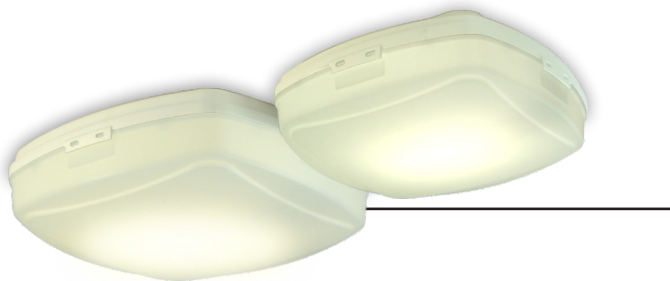


LiLi Mid-End



LiLi Mid-Mid





technical data type **BHX**

Body: Injected white polycarbonate.

- Without bracket, see BHX+ for optional bracket.

Diffuser : Injected frosted polycarbonate.

Impact strenght data of the diffusor :

- Diffuser in PC : > 6Nm (IK08).

Electrical specifications :

- Lamp type : LED

- **Optional** : - Emergency module. (not for type HO)

- Motion detector. (ultrasonic)



Type Multi: 8,5W till 13,5W with DIP-switch
(4 output levels).

Type MID: 15W with 1860 lm.

Type HO: 19W with 2270 lm

Cri > 80 for colors 3000 K and 4000 K
Cri > 90 for colors 2700 K (on request)

Lifetime : 50.000 h L80 B50.

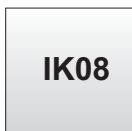
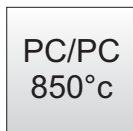


Diffuser is clicked on the
base

Easy opening of the
diffuser



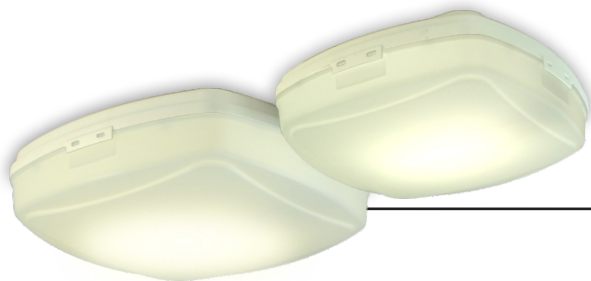
High frequency
motion detector.
(Optional)



16.02.2024

The liabilities are bound to the published
informations, which might be modified
without notice.



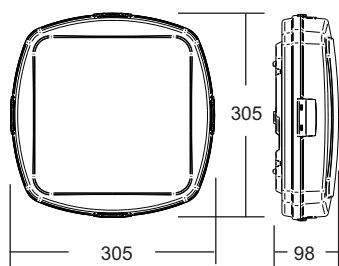


technical data type **BHX**

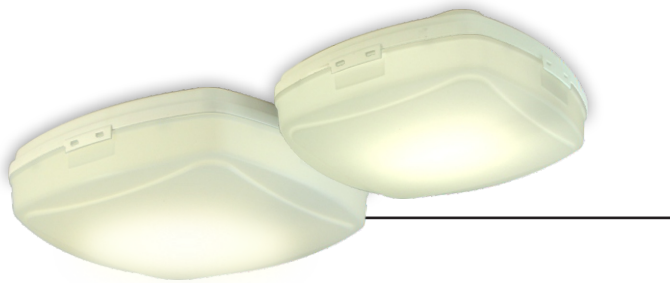
Type Multi		
8,5W	1120 lm	45°C
9,5W	1220 lm	45°C
13,0W	1550 lm	40°C
13,5W	1660 lm	40°C
Emergency	4 levels	25°C

Type MID		
15,0W	1860 lm	35°C
Emergency	1860 lm	25°C

Type HO		
19,0W	2270 lm	35°C
No Emergency		



All dimensions are in mm.



technical data type **BHX+** + bracket

Body : standard; injected white polycarbonate.

Diffuser : standard; injected opal PMMA or opal polycarbonate.

Impact strenght data of the diffusor :

- Diffuser in PC : > 6Nm (IK08).
- Diffuser in PMMA : > 0.7Nm (IK05).

Reflector : glossy galvanised metal plate.

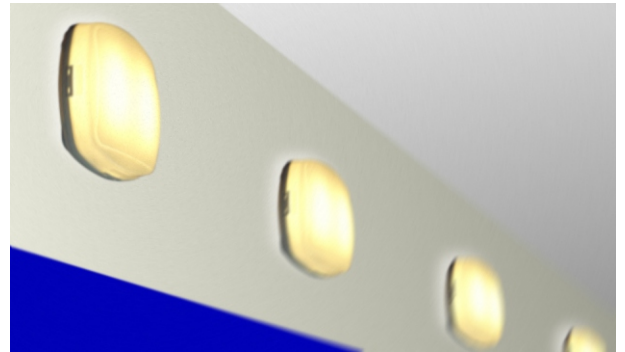
Bracket : injected polycarbonate.

Buba+ has a pre-mounting installation bracket for quick & easy electrical connection.

This bracket fits both large & small Buba+.

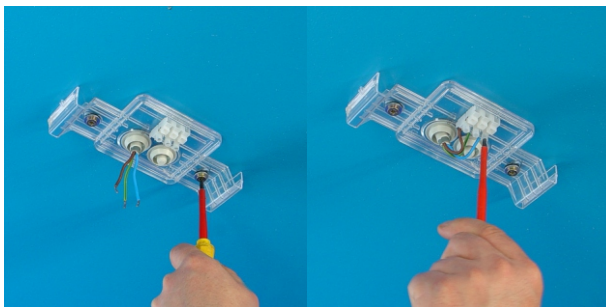
Electrical specifications :

- HF-ballasts
- **Optional** : - Emergency module.
(1x28W TC-DD, 1x18W TC-L).
- Motion detector.(Buba large only).
(1x22W T5R, 1x18W TC-L).



Lamps:

- 1x TC-DD 16W / 28W / 38W
- 1 or 2x TCSeI 7W / 9W
- 2x TCSeI 11W.
- 1 or 2 xTC-L 18W.
- 1x T5R 22W.



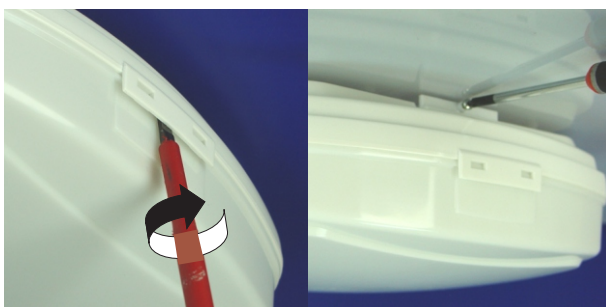
1. Bracket is fixed

2. wires attached to connector.



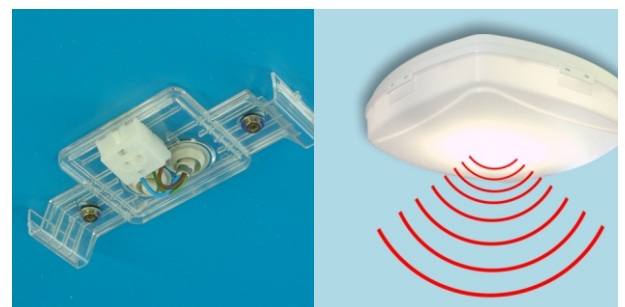
3. Buba+ is clicked on the bracket.

Two "clicks" for bracket mounting.



Easy opening of the diffuser

vandal-proof screw (Optional)

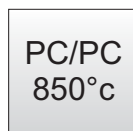


3 poles connector protection cap (Optional)

High frequency motion detector. (Optional)

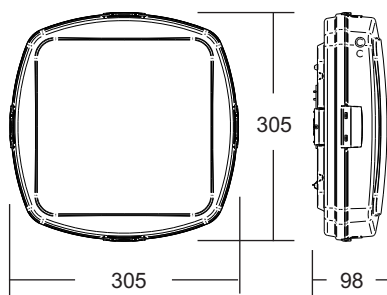
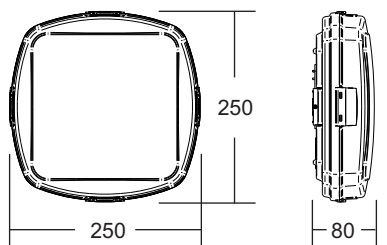
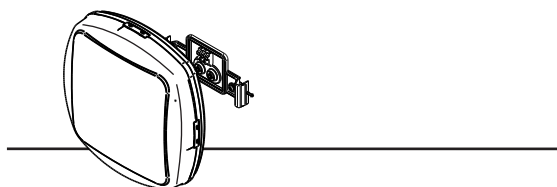


V16.02.2024



The liabilities are bound to the published informations, which might be modified without notice.





technical data type **BHX+**

+ bracket

Buba+ Small (with bracket)		L	Ballast EL	
1x 7/9 W	TC-Sel	250	2G7	
1x16 W	TC-DD	250	GR10q	
1x18 W	TC-Del	250	G24q-2	
2x 7/9 W**	TC-Sel	250	2G7	

Buba+ Large (with bracket)		L	Ballast EL	
1x18 W	TC-L	305	2G11	
1x22 W	TR5	305	2GX13	
1x28 W	TC-DD	305	GR10q	
1x38 W**	TC-DD	305	GR10q	
2x11 W	TC-Sel	305	2G7	
2x18 W	TC-L	305	2G11	

Buba+ Large Emergency		L	Ballast EL.	Batt.
1x28 W**	TC-DD	305	GR10q	3h.
1x18 W**	TC-L	305	2G11	3h.

Buba+ Large Motion detector		L	Ballast EL.	
1x22 W	TR5	305	GR10q	
1x18 W	TC-L	305	2G11	

All dimensions are in mm.

** : Ta max. is 25°C.



technical data type **Echo LED**

Housing: White powder coated steel.

Optic:

- Frosted cover of LED modules.
- Double Parabolic: Mat reflectors with "V" shaped crossblades.

Optional: Single parabolic louver (Ecoline)

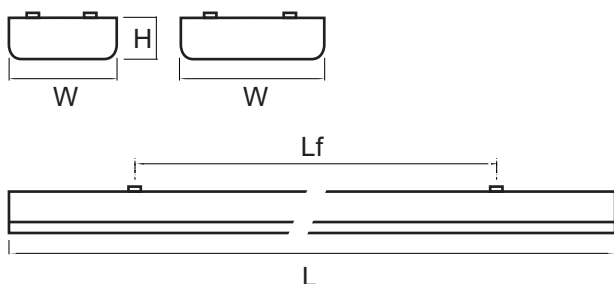
Electrical specifications:

- LED current driver

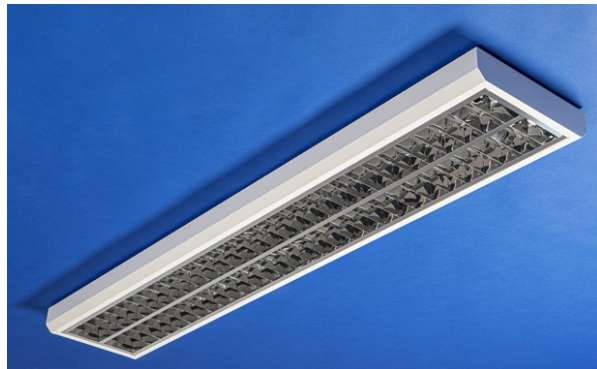


Quick connector

Housing	L	W	H	Lf	Kg
418	611	410	52	400	2.2
136	1210	153	52	900	2.2
236	1210	238	52	900	2.5
158	1510	153	52	1200	3.2
258	1510	238	52	1200	4.0
236Eco	1258	264	60	950	2.5
258Eco	1558	264	60	1250	3.2



V16.05.2019



LED:

- Mid Power LED CRI 80 (option CRI 90)
- 3000 K, 4000 K
- UGR <19 (office lighting)
- Lifetime 80.000 h L80 B50
- DALI or DIM 1 - 10 V



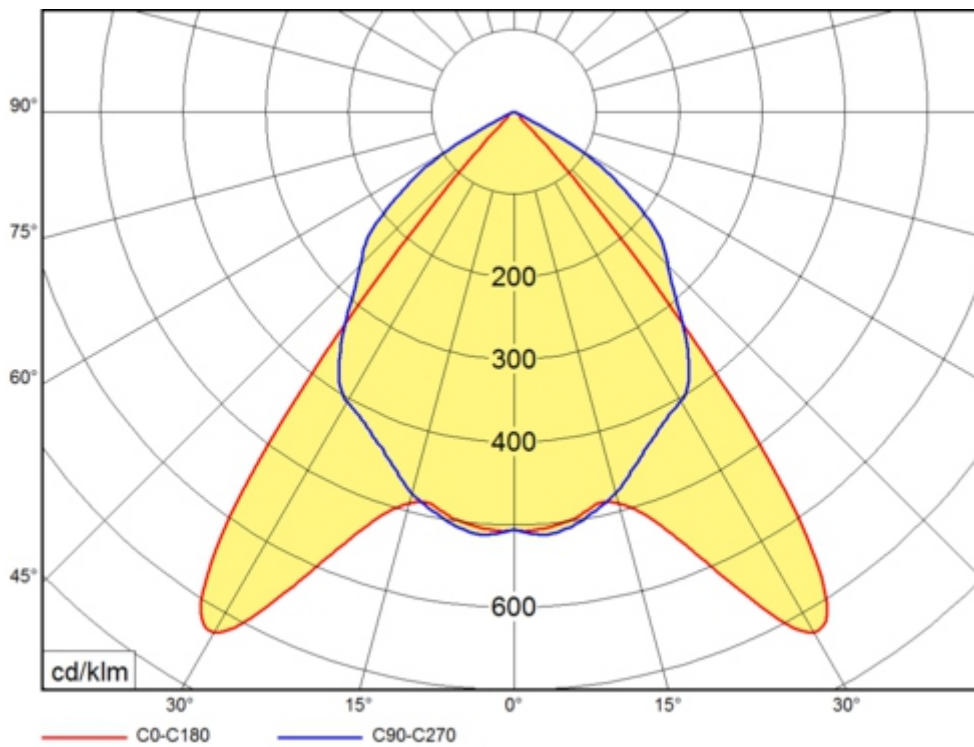
Housing

418	27 W	3200 lm
	37 W	4350 lm
136	19 W	2250 lm
236	26 W	3300 lm
	37 W	4450 lm
158	30 W	3500 lm
258	41 W	5350 lm
	58 W	7200 lm
236Eco	37 W	4000 lm
258Eco	57 W	6200 lm

*The dimensions shown on this document can be modified without notice.



technical data type **Echo LED**





technical data type HBX

Body: - Made of die cast aluminium in black corrosion resistant paint finish.

Optic: - Lens optics 90° beam angle

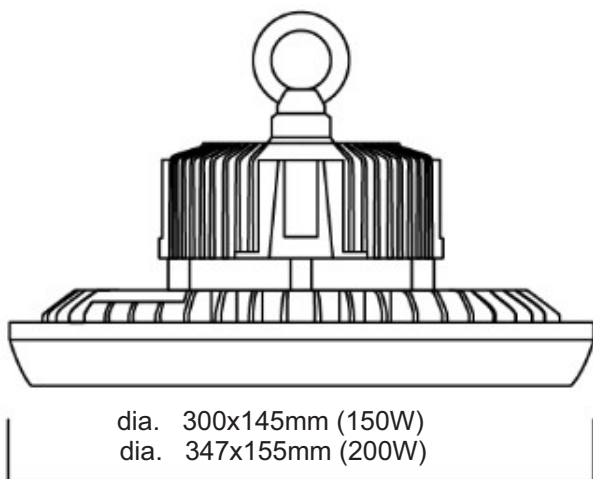
Options: - 120° wide beam angle.
- 1-10V dimming
- CCT : 4000K

Electrical specifications:

- Class I
- Input Voltage 100-240V AC
- Frequency 50 / 60 Hz.



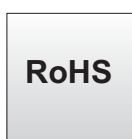
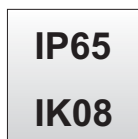
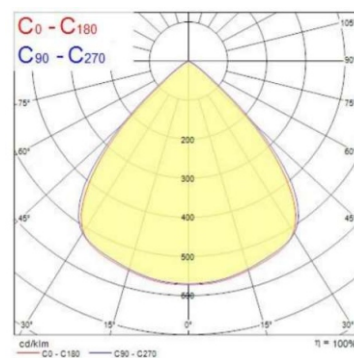
Power	Lm+/-10%	LED Nos	Ta.max	Size mm	Weight kg
150W	22500	420	40°C	300*145	2.2
200W	30000	532	40°C	347*155	2.9



LED specifications:

- Product life min.50.000h L70 B10 at Ta.max
- SMD 5050
- MacAdam 3 SDCM
- CRI > 80
- efficacy 150 lm/W
- Luminous output and electrical load have an initial tolerance of +/- 10% from nominal.
- Total power consumption of LED's and driver
- Driver: SOSEN

* The dimensions shown on this document can be modified without notice

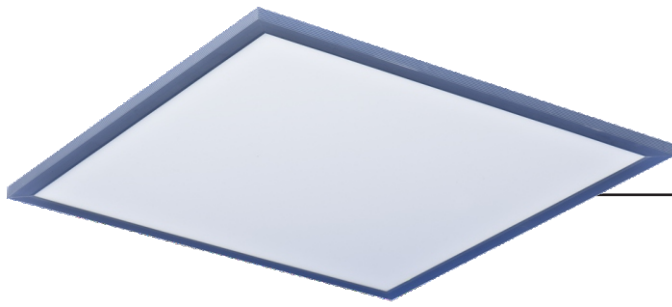


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technical data type **SUR**

LED panel

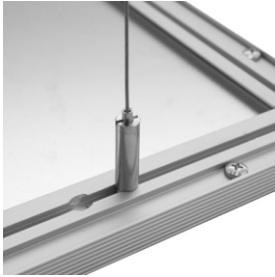
Housing:

made of anodized aluminium,
developed for pending, surface.
(or recessed module 600 ceilings)

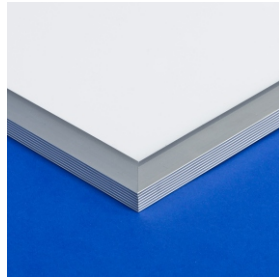
Diffuser:

available in frosted acrylic sheet,
mounted into the frame

-Optional: Direct/indirect

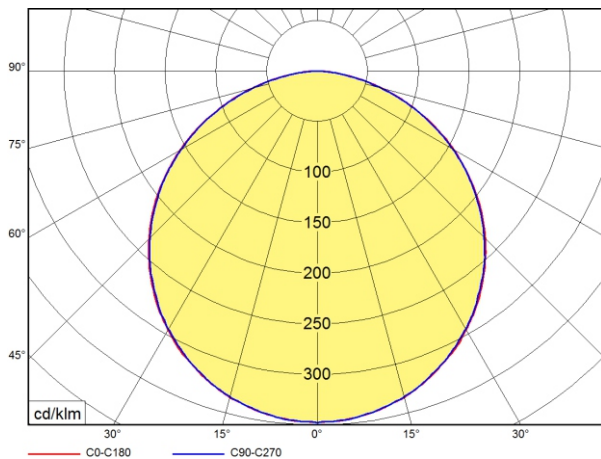


Pendant mounting set

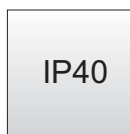
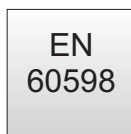


Alu Frame

Alternative: see also type **RES**



23.06.2016



Electrical specifications:

- LED current driver
- optional Dali Dim or 1-10v Dim
- product life time 50.000h L80B50
- available in 2900K,3800K and 5300K with CRI of min. 80
- Luminous efficiency: LER up to 105lm/W



Housing	Power(w)	Flux(Lumen)
600x600	36	3900
	55	5600
300x1200	36	3900
	55	5600
600x1200	75	7700
	110	10800

* Total power consumption of LED's and driver.

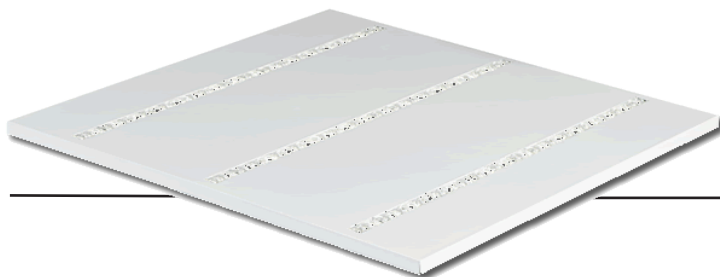
** Luminous flux of fitting

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technical data type IDL

With tunable white technology and HCL

Body:

White painted metal.

Recessed: for opening 600 or 625 mm.

3 versions: 1, 2 or 3 LEDlines.

60 or 90° optical lenses.

Optic:

Symetric linear PMMA lenses.

Z60 - narrow beam 60°

Z90 - wide beam 90°

Application:

Recessed installation into modular ceiling (square).

mod 600: 596 x 596 x 30 mm.

mod 625: 622 x 622 x 30 mm.

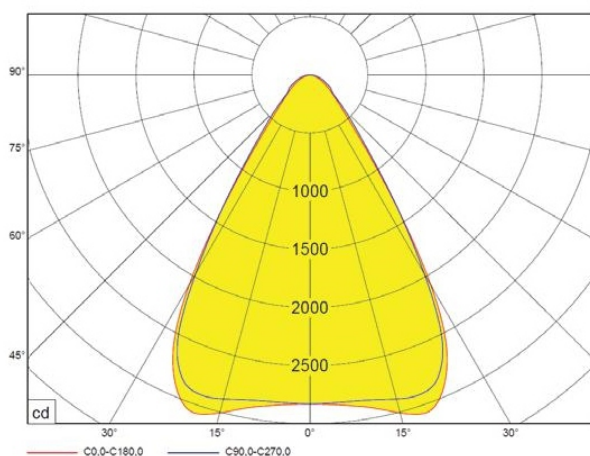
Options: White painted frames for recessed gypsum plasterboard or surface installation.



Electrical specifications:

- Product life min 80.000 h L80 B50
- Available in 3000K, 4000K and 5700K and tunable white.
- CRI of min. 80.
- Macadam: < 3 SDCM
- Main part is PMMA plastic optical system, which takes care of perfect lighting distribution and high effectivity. (up to 163 lm/W from luminaire).
- UGR 19 for types1 and 2; UGR 17 for type 3.

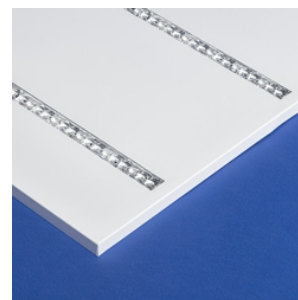
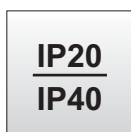
Optional: DALI or wireless bluetooth control.



		Power(W)	Flux(lm)	lm/W	Kg
<u>Type1</u>	1500/1	7	1000	143	1,7
	2000/1	14	2000	143	1,7
	3000/1	19	2700	142	1,9
<u>Type 2</u>	3000/2	19	2700	142	1,9
	4000/2	26	3800	146	1,9
<u>Type 3</u>	3000/3	18	2900	161	2,0
	4000/3	25	4000	160	2,0
	6000/3	38	5800	153	2,0



16.02.2024



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technical data type RES

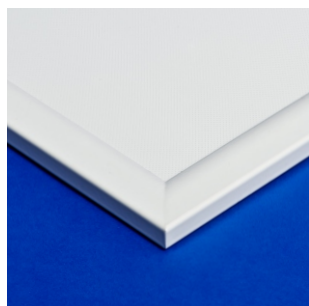
LED panel

Housing:

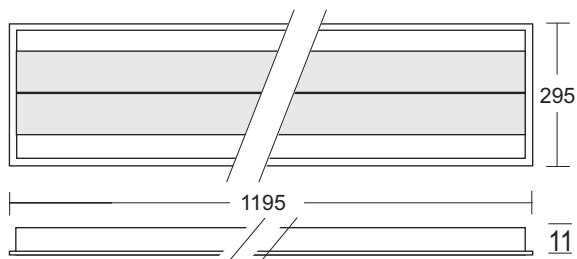
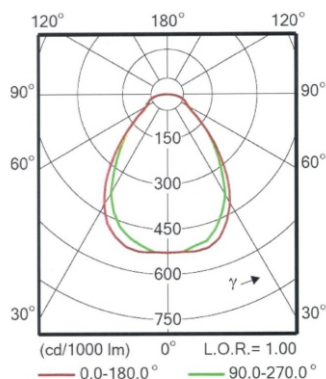
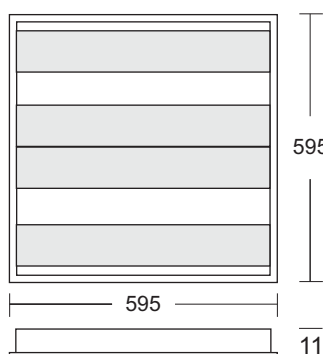
Made of white powder coated aluminium, developed for recessed module 600 ceilings.

Diffuser:

Prismatic sheet, mounted into the frame.
UGR < 19



White frame



Electrical specifications:

- LED current driver
- Optional DALI Dim
- Product life time 50.000h L80B10
- Available in 3000K, 4000K and 6500K with CRI of min. 80
- Luminous efficiency: LER up to 121lm/W
- SDCM4

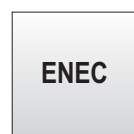
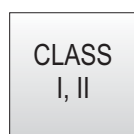
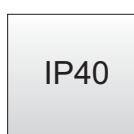
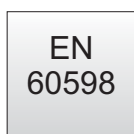
Housing (mm)	Power	Flux
600x600	28 W	3000 lm
	32 W	3400 lm
	36 W	3780 lm
	41 W	4300 lm
300x1200	28 W	3000 lm
	32 W	3400 lm
	36 W	3780 lm
	41 W	4300 lm

Correction factor 0,95 for 830

Luminous output and electrical load have an initial tolerance of +/- 10 % from nominal.



16.02.2024



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technical data type RLG

Housing:

Made of white coated steel and ABS Body.

Developed for recessed module 600 ceilings.

Diffuser:

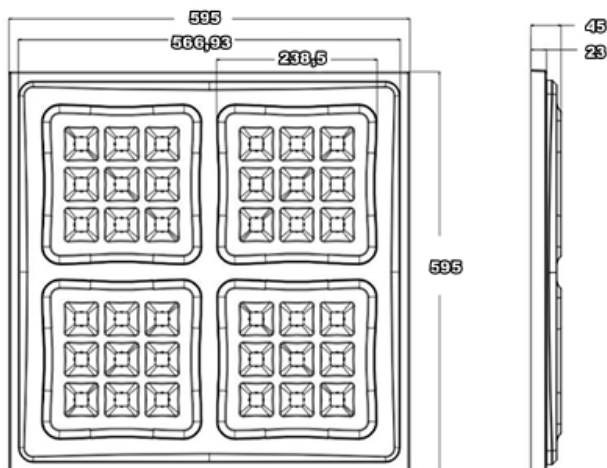
Frosted PC lens mounted into body.

UGR < 17

- **Optional** : surface mounted frame.
recessed frame for gypsum plasterboard.

Electrical specifications:

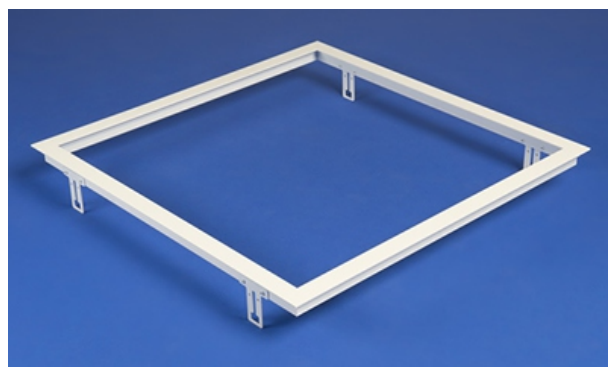
- LED current driver with ENEC certificate.
- Optional DALI Dim
- Product life time 50.000h L80B50
- Available in color 4000K (2700K/5000K/6500K on demand)
- Operating temp. -10°C to 40°C
with CRI of min. 80 and 95 optional.
- Luminous efficiency: LER up to 118lm/W
- SDCM < 3
- Multi Watt: multi current DIP switch



Housing (mm) Power Flux (Lumen)

600x600	34 W	4000 lm
	37 W	4200 lm
	39 W	4400 lm
	41 W	4650 lm

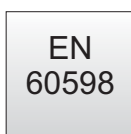
- Net weight 3 kg



option : frame for plasterboard



16.02.2024



Correction factor 0,95 for 830

Luminous output and electrical load have an initial tolerance of
+/- 10 % from nominal.

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technical data type **ECLIPS LED**

Housing: 52 mm height, powder coated white steel, RAL 9003, developed for module 600 ceilings.

Louvre:

- Frosted LED-cover.
- double parabolic louvre in highly polished AB or mat aluminum AM (category 2).

Electrical specifications:

- LED current driver (standard).
- Optional : Dim 1-10 V, DALI.

Power:	AB	AM
- 27W =	3300 Lm	3400 Lm.
- 37W =	4300 Lm	4450 Lm.



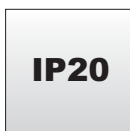
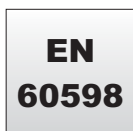
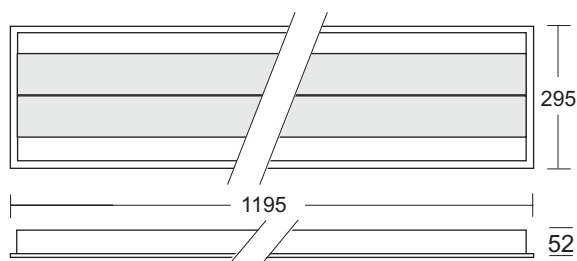
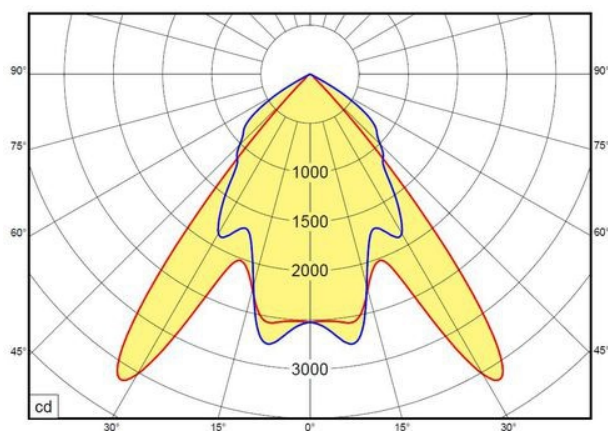
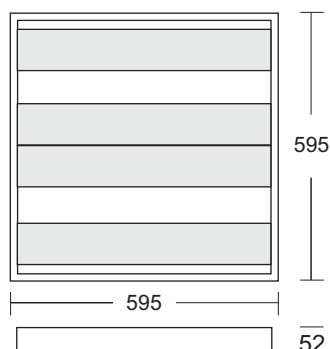
LED:

- Product lifetime 80.000 h L80B50
- Available in 3000K, 4000K and tunable white 3000-6000K
- CRI ≥ 80 ; UGR <19
- Option CRI 90; SDCM 3



Connector

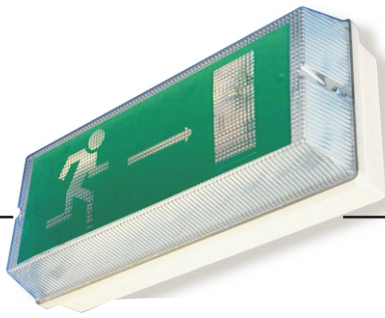
Double parabolic
(cat 2) louvre



V 11.04.2019

*The dimensions shown on this document can be modified without notice.





technical data type EMX

Housing:

- injection moulded housing made out of polycarbonate (PC) or polystyrene (PS), with EPDM gasket.
- standard white coloured.
- optional: grey coloured.

Diffuser:

- injection moulded diffuser, fixed to the housing with screws, made out of polycarbonate (PC) or acrylic (PMMA).
- opal or clear prismatic or PC-frosted
- pictograms optional.

Reflector:

- made of white stove enamelled steel.
- reflector attached to the housing by quickly detachable "reflector clips".



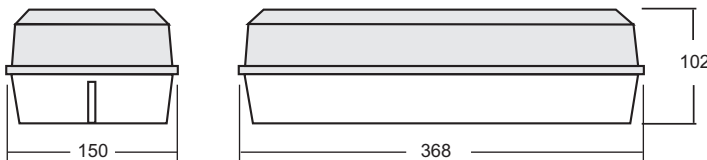
Electrical specifications:

- ferromagnetic ballast and switch starters.
- optional: - emergency applications in 1 and 3H autonomy.
(non maintained or sustained version).
- test-buttons for emergency function test.
- digital self test.

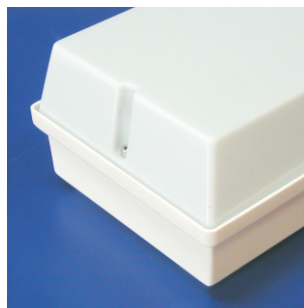
Lamps:

- fluorescent lamps in 8w
- fluorescent compact lamps in 9 - 11 - 18w
- Low pressure sodium lamps in 18w

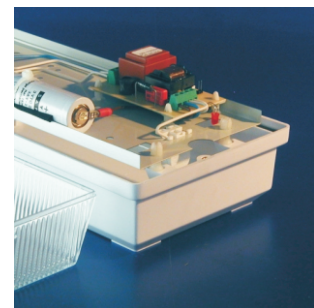
Also LED version available with PC-frosted diffuser and efficiency of 88 lm/w.
(1143 lumen out of fitting for 13w)



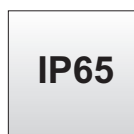
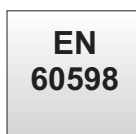
Easy "clip-on" gear tray



Opal diffuser



High quality electronic components



technical data type EMX

EMX		Tot. light output (Lumen)
1x9 W	TCS	600
2x9 W	TCS	950
1x11 W	TCS	900
1x18 W	TCL	1200
2x11W	TCS	1800
1x8 W	T5	330 / 450*
2x8 W	T5	660 / 900*
1x18 W	LPS/SOX	1800

(* = High efficiency lamp.)

EMX Emergency		Tot. light output (Lumen)	Batteries	Auton.
1x8	T5 (non maint.)	125	3x 1.5Ah	1h
1x8	T5 "	90	2x 4Ah	3h
2x8	T5 (sustained)	330 + 125	3x 1.5Ah	1h
2x8	T5 "	330 + 90	2x 4Ah	3h

(Other types of lamps and batteries on request.)

EMX 1x8

Correction factors : 1.00

Polair Diagram

Utilisation Factors

Ceilings	.8	.7	.7	.5	.5	.5
Walls	.5	.5	.3	.5	.3	.3
Floor	.3	.1	.3	.3	.3	.1

Room ind. K

0.60	.35	.32	.26	.31	.25	.24
0.80	.42	.39	.33	.38	.31	.30
1.00	.49	.44	.39	.43	.36	.35
1.25	.55	.49	.45	.49	.42	.40
1.50	.60	.53	.50	.53	.46	.44
2.00	.68	.59	.57	.59	.53	.50
2.50	.74	.63	.63	.64	.58	.54
3.00	.78	.66	.68	.67	.62	.58
4.00	.84	.70	.74	.72	.67	.62
5.00	.87	.73	.78	.75	.71	.65

Glare Evaluation

(1x330 lm)

Quality class	G	Service Illuminance (Lux)				
B	1.5	1000	500	300		
C	1.15		1000	300		
D	1.85			1000	500	300
E	2.55				1000	500

e/h : 1.58

Lum.Eff.: 89 %

C.I.E.: 35 59 80 85 89

BZ6

UTE : .76H+.13T

EMX 2x11

Correction factors : 2x11: 1.00 - 2x9: 1.09

Polair Diagram

Utilisation Factors

Ceilings	.8	.7	.7	.5	.5	.5
Walls	.5	.5	.3	.5	.3	.3
Floor	.3	.1	.3	.3	.3	.1

Room ind. K

0.60	.29	.27	.22	.26	.21	.21
0.80	.35	.32	.28	.32	.26	.26
1.00	.40	.36	.33	.36	.31	.30
1.25	.46	.41	.38	.41	.36	.34
1.50	.50	.44	.42	.44	.39	.37
2.00	.56	.49	.48	.49	.45	.42
2.50	.60	.52	.53	.53	.49	.46
3.00	.63	.54	.56	.55	.52	.48
4.00	.68	.57	.60	.59	.56	.51
5.00	.70	.59	.64	.61	.58	.54

Glare Evaluation

(2x 900 lm)

Quality class	G	Service Illuminance (Lux)					
B	1.5	1000	500	300			
C	1.15		1000	500	300		
D	1.85			1000	500	300	
E	2.55				1000	500	300

e/h : 1.58

Lum.Eff.:65.8 %

C.I.E.: 40 68 87 87 66

BZ5 2.00 BZ6

UTE : .57G+.09T



technical data type **LMX**

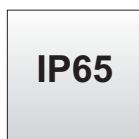
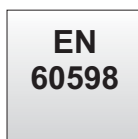
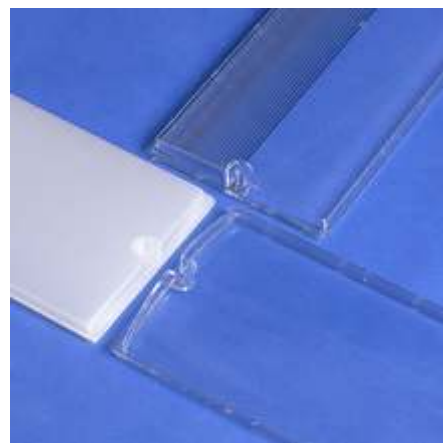
- Housing:**
- injection moulded housing made out of polycarbonate (PC) or polystyrene (PS), with EPDM gasket.
 - standard white coloured.
- Diffuser:**
- injection moulded diffuser, fixed to the housing with screws, made out of polycarbonate (PC).
 - clear, clear lined or PC-frosted
 - pictograms optional.
- Reflector:**
- made of white stove enamelled steel.
 - reflector attached to the housing by quickly detachable "reflector clips".



Electrical specifications:

Frosted Clear

Multi-watt version: 8W / 950lm ... 1045lm
 9.5W / 1100lm ... 1200lm
 11W / 1300lm ... 1430lm
 13W / 1550lm ... 1700lm



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— technical data type **VEL**

Housing: - Injection moulded housing made out of ABS
 - Standard white coloured.
- Optional: Semi recessing bezel.

Diffuser: - Injection moulded diffuser, fixed to the housing with screws, made out of polycarbonate (PC).
 - Pictograms optional. (self adhesive legend kits)
- Optional: Trapezium shape diffuser (h=150 mm) inclusive self-adhesive safety signs to provide double sided signage.

Reflector: - Hinged white plastic.

2 Types: Both 150lm output

- VEL/EM3: Maintained or Non-Maintained with 3H autonomy and battery 1x3.6V (1.5 Ah NiCd).

- Optional: LiFe PO₄ batteries

- VEL/230: LED mains only (bulkhead).



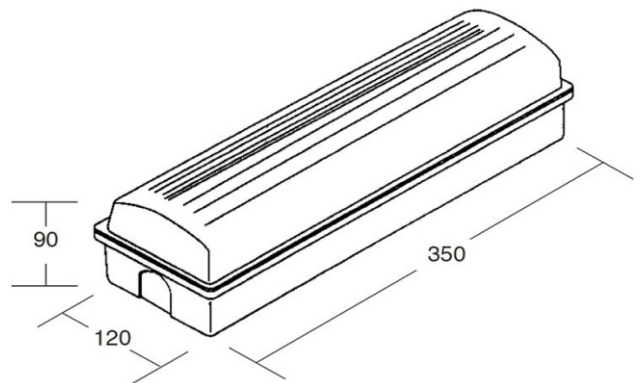
Specifications:

- Complies with glow wiretest at 850°C.
- 150 lumen out of fitting for 3,0W with 16 high output white LEDs.
- Supply voltage 230V/50Hz.
- Color 4000 to 5000 K.
- CRI > 80.
- Lifetime > 50.000 h

- Optional: DALI digital self test in accordance with BSEN62034.



Optional: trapezium shape diffuser



Weight: - VEL/EM3 = 1,1 kg
 - VEL/230 = 0,9 kg



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technical data type **TUBE EM**

Base: Impact proof PC housing. IK10

- Free fix mounting bracket.
- Connection: Wieland, Stucchi connector.
- Silicone gasket.

Diffuser: Special frosted polycarbonate for a smooth uniform lighting.

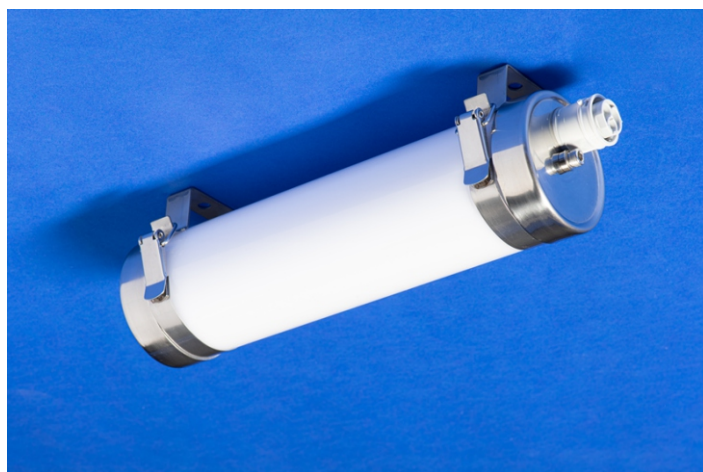
- *Optional* : - Frosted PMMA diffuser

Gear tray: Aluminium



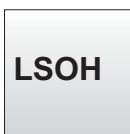
Specifications:

- Non-maintained (only EMergency).
- Multi-watt version : 8W / 825 lm - 13W / 1350 lm
- Available in 3000K, 4000K, 5000K
- Ta: +5° till 30°C.



Housing	L	W	H	Lf(mm)	Kg
301	310	80	102	280 - 290	1,0
601	600	80	102	300 - 500	1,7

Impact strength data: Tube in PC (IK10)



16/02/2024

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LED

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