

LIGHTING FIXTURES FOR HIGH IMPACT RISK



PITBUL-EX-LED

(Impact Resistance IK10/20J)
Linear_Metal/304SS/Glass



RAMBO-EX-LED

(Impact Resistance
IK10+/60J)
Linear_Metal/304SS/PC



EXTRA-EX-LED

(Impact Resistance IK10/20J)
Linear_PC



EXTRA-N-LED

(Impact Resistance IK10/20J)
Linear_PC



EXTRA-LED

(Impact Resistance IK10/20J)
Linear_PC



NORD-N-LED-OPG

(Impact Resistance IK10/20J)
Recessed_Metal/304SS/Glass



NORD-N-LED-CG

(Impact Resistance IK10/20J)
Recessed_Metal/304SS/Glass



PITBUL-N-LED

(Impact Resistance IK10/20J)
Linear_Metal/304SS/Glass



GALGO-LED(-FF)

(Impact Resistance IK10++/120J)

Linear_Metal/304SS/PC

FF: Anti-Ligature compliant



RAMBO-LED

(Impact Resistance IK10+/60J)

Linear_Metal/304SS/PC



BOXER-LED(-FC)

(Impact Resistance IK10+/40J/50J(FC))

Linear_Metal/304SS/PC

FC: Anti-Ligature compliant



CLUMBER-LED

(Impact Resistance IK10/20J)

Bulkhead_Metal/304SS/PC



STAFORD-LED

(Impact Resistance IK10/20J)

Recessed_Metal/304SS/PC



PITBUL-Ex-LED

IP 65 / Ex zone 1, 21

5 year warranty

SILICONE FREE



IK10 (5kg@40cm)



FTZÚ 16 ATEX 0089X



Application: The dustproof lighting fixture PITBUL-Ex-LED with splash water resistance is designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0089X).

Ballast: EP – electronic 110 – 254 V, 50/60 Hz, 220 – 250 V, 0 Hz DC

Light source: LED, 4000K, CRI +80

Housing: White painted steel sheet RAL 9003

Diffuser: Opal hardened safety glass with HST test

Fastening: Direct surface wall or ceiling mounting via M8 screws through the base, with ceiling brackets or adjustable brackets, suspension via suspension brackets, into false ceiling by means of recessed frame, on the pole with set of pole brackets.

Connection: Screwless three-pole terminal block, maximum diameter of wires 4 mm²

Standard equipment: 1pc EX plastic cable gland M20x1,5 for diameter of cable 7-12mm, 1pc EX plastic sealing plug

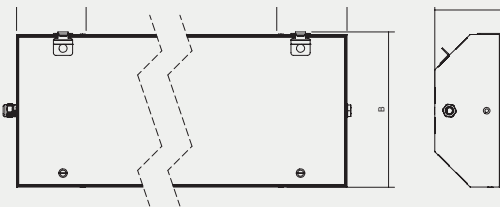
Calculated lifetime – LED modules:
 L80B50 ta55°C - 50 000h - 418/436
 L80B50 ta 60°C - 50 000h - 218/236

PITBUL-Ex-LED

- Ⓜ II 2G Ex db eb mb op is IIC T4 Gb
- Ⓜ II 2D Ex tb op is IIC T67°C Db

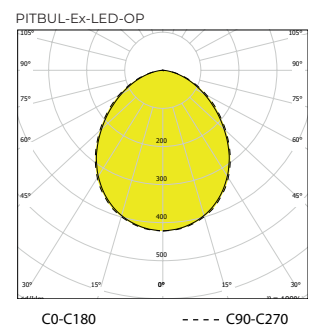
PITBUL-Ex-LED-WOD

- Ⓜ II 2G Ex eb mb op is IIC T4 Gb
- Ⓜ II 2D Ex tb op is IIC T67°C Db



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Equivalent*	Weight (kg)
version with disconnecter - lighting fixtures suitable for ambient temperatures -20°C									
053684	PITBUL-Ex-LED-OP-D-2750-218-4K	2377	16	149	60	703x310x142	450	3x18W	7,7
053700	PITBUL-Ex-LED-OP-D-4000-218-4K	3373	30	112	60	703x310x142	450	4x18W	7,7
053685	PITBUL-Ex-LED-OP-D-5500-418-4K	4695	30	157	55	703x369x142	450	2x36W	10,3
053701	PITBUL-Ex-LED-OP-D-8000-418-4K	6663	51	131	55	703x369x142	450	X	10,3
053686	PITBUL-Ex-LED-OP-D-5500-236-4K	4784	30	159	60	1313x310x142	800	X	15,1
053702	PITBUL-Ex-LED-OP-D-8000-236-4K	6742	53	127	60	1313x310x142	800	2x58W/3x36W	15,1
053687	PITBUL-Ex-LED-OP-D-11000-436-4K	9546	60	159	55	1313x369x142	800	3x58W	19,4
053703	PITBUL-Ex-LED-OP-D-16000-436-4K	13447	102	132	55	1313x369x142	800	4x58W	19,4
version without disconnecter - lighting fixtures suitable for ambient temperatures -20°C									
053680	PITBUL-Ex-LED-OP-WOD-2750-218-4K	2377	16	149	60	703x310x142	450	3x18W	7,7
053696	PITBUL-Ex-LED-OP-WOD-4000-218-4K	3373	30	112	60	703x310x142	450	4x18W	7,7
053681	PITBUL-Ex-LED-OP-WOD-5500-418-4K	4695	30	157	55	703x369x142	450	2x36W	10,3
053697	PITBUL-Ex-LED-OP-WOD-8000-418-4K	6663	51	131	55	703x369x142	450	X	10,3
053682	PITBUL-Ex-LED-OP-WOD-5500-236-4K	4784	30	159	60	1313x310x142	800	X	15,1
053698	PITBUL-Ex-LED-OP-WOD-8000-236-4K	6742	53	127	60	1313x310x142	800	2x58W/3x36W	15,1
053683	PITBUL-Ex-LED-OP-WOD-11000-436-4K	9546	60	159	55	1313x369x142	800	3x58W	19,4
053699	PITBUL-Ex-LED-OP-WOD-16000-436-4K	13447	102	132	55	1313x369x142	800	4x58W	19,4

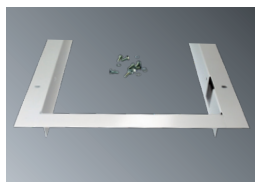
Tolerance of luminous flux and power input of the lighting fixture +/- 10%
 * Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.



SAFE answers to HAZARDOUS questions

Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta min (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Weight (kg)
version FROST - lighting fixtures suitable for ambient temperatures -40°C								
053690	PITBUL-Ex-LED-OP-FROST-WOD-4000-218-4K	3373	30	112	-40	703x310x142	450	10,3
053691	PITBUL-Ex-LED-OP-FROST-WOD-8000-418-4K	6663	51	131	-40	703x369x142	450	10,3
053692	PITBUL-Ex-LED-OP-FROST-WOD-8000-236-4K	6742	53	127	-40	1313x310x142	800	15,1
053693	PITBUL-Ex-LED-OP-FROST-WOD-16000-436-4K	13447	102	132	-40	1313x369x142	800	19,4

Accessories on request



- 053941 Set of recessed frame PITBUL 1x-3x18W
- 053942 Set of recessed frame PITBUL 4x18W
- 053943 Set of recessed frame PITBUL 1x-3x36W
- 053944 Set of recessed frame PITBUL 4x36W
- 053945 Set of recessed frame PITBUL 1x-3x58W
- 053946 Set of recessed frame PITBUL 4x58W



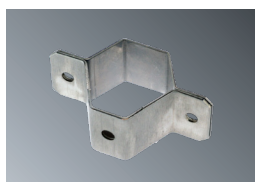
- 054935 Set of stainless steel ceiling brackets PITBUL (2 pcs)



- 053940 Set of adjustable brackets PITBUL



- 004642 Suspension bracket DIN 580 M8 - 1 pc



- 051146 Pole bracket PITBUL (for Ø 50 mm)

Accessories for armoured cable M20

- 008052 Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)
- 008091 Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
- 008093 Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
- 007047N Flat sealing ring EPDM 27x18.5x1.5 mm

On request

EM-1.5/3 - non-maintained emergency lighting

1/3 F - single-phase or three phase through wiring connection, maximum diameter of wires 4 mm²

MULTI-1.5/3 - maintained emergency lighting

RAL - another colour scale

NEREZ - body from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

3000/4000/6000K - colour temperature

Standard order number	MULTI-1,5H	MULTI-3H	DALI	1F	3F	EM	
053684	X	X	X	053684 1F	053684 3F	053712	PITBUL-Ex-Em-LED-OP-600-218-4K
053700	053708	053704	X	053700 1F	053700 3F	053713	PITBUL-Ex-Em-LED-OP-900-236-4K
053685	X	X	X	053685 1F	053685 3F	053714	PITBUL-Ex-Em-LED-OP-400-218-4K
053701	053709	053705	X	053701 1F	053701 3F	053715	PITBUL-Ex-Em-LED-OP-500-236-4K
053686	X	X	X	053686 1F	053686 3F		
053702	053710	053706	X	053702 1F	053702 3F		
053687	X	X	X	053687 1F	053687 3F		
053703	053711	053707	X	053703 1F	053703 3F		
053680	X	X	X	053680 1F	053680 3F		
053696	X	X	X	053696 1F	053696 3F		
053681	X	X	X	053681 1F	053681 3F		
053697	X	X	X	053697 1F	053697 3F		
053682	X	X	X	053682 1F	053682 3F		
053698	X	X	X	053698 1F	053698 3F		
053683	X	X	X	053683 1F	053683 3F		
053699	X	X	X	053699 1F	053699 3F		

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 21.22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 1.2	ČSN EN 60079-14, ČSN EN 60079-10-1



RAMBO-Ex-LED

IP 66 / IP 67 / zone 1, 21

5 year warranty



FTZÚ 17 ATEX 0053X



Application: Antivandal lighting fixture RAMBO-Ex-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0053X).

Ballast: EP – electronic 110-254 V, 50-60 Hz AC, 220-250 V, 0 Hz DC

Light source: LED, 4000K, CRI +80

Housing: White painted steel sheet (RAL 9003) with plastic sides with end caps from polycarbonate.

Diffuser: Tube with outer diameter of 70 mm and wall thickness of 4 mm made from clear PC - IK10 (polycarbonate)

Fastening: Direct surface wall or ceiling mounting by means of screws

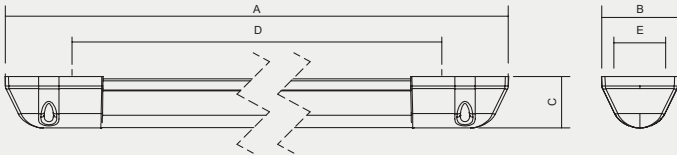
Connection: Screwless three-pole terminal block, maximum diameter of wires 4 mm²

Standard equipment: 1pc EX plastic cable gland M20x1,5 for diameter of cable 7-13mm, 1pc EX plastic sealing plug

Calculated lifetime – LED modules:

L80B50 ta50 – 40 000h

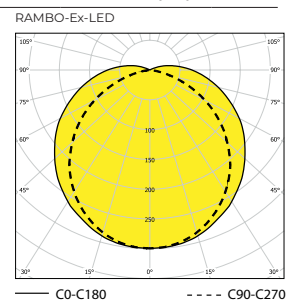
RAMBO-Ex-LED-D	RAMBO-Ex-LED-WOD
II 2G Ex db eb mb op is IIC T4 Gb	II 2G Ex eb mb op is IIC T4 Gb
II 2D Ex tb op is IIIC T59°C Db	II 2D Ex tb op is IIIC T59°C Db



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Equivalent*	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing Dx E (mm)	Weight (kg)
084250	RAMBO-Ex-LED-D-2750-118-4K	1953	16	122	50	1x36W	1318x113x76	1148x60 (Ø8)	7,6
084210	RAMBO-Ex-LED-D-4000-118-4K	2835	28	101	50	X	1318x113x76	1148x60 (Ø8)	7,6
084251	RAMBO-Ex-LED-D-5500-136-4K	3794	30	126	45	X	1878x113x76	1708x60 (Ø8)	11
084211	RAMBO-Ex-LED-D-8000-136-4K	5441	51	107	45	X	1878x113x76	1708x60 (Ø8)	11
084252	RAMBO-Ex-LED-WOD-2750-118-4K	1953	16	122	50	1x36W	1318x113x76	1148x60 (Ø8)	7,6
084212	RAMBO-Ex-LED-WOD-4000-118-4K	2835	28	101	50	X	1318x113x76	1148x60 (Ø8)	7,6
084253	RAMBO-Ex-LED-WOD-5500-136-4K	3794	30	126	45	X	1878x113x76	1708x60 (Ø8)	11
084213	RAMBO-Ex-LED-WOD-8000-136-4K	5441	51	107	45	X	1878x113x76	1708x60 (Ø8)	11

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

* Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.



Accessories on request



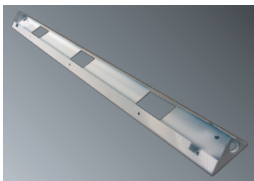
008096	Plastic cable gland Ex M20x1.5
008097	Plastic nut WISKA EMUG 20 M20x1.5
008090	Sealing plug Ex M20x1.5
007047N	Flat sealing ring EPDM 26x20x1.5 mm



002020	Rambo special key
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004569	RAMBO safety screw 6x10
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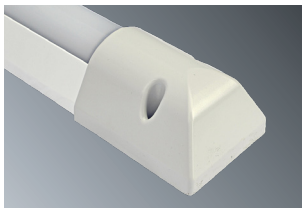


order number on request	Corner bracket 30°
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Marking system and overview of approved variants of lighting fixtures

RAMBO-Ex-LED-D-XXXX-YYY	lighting fixture type for standard operation with disconnecter
RAMBO-Ex-LED-WOD-XXXX-YYY	lighting fixture type for standard operation without disconnecter
XXXX*	indicates value of luminous flux (lumen) 4000/8000
YYY*	indicates type of lighting fixture housing 118/136

Lighting fixture detail



On request

3000/4000/6000K- colour temperature

1/3 F - single-phase or three phase through wiring connection, max. diameter of wires 4 mm2

RAL – other colour scale

NEREZ – body from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

Stadard order number	EM-1,5H	EM-3H	MULTI-1,5H	MULTI-3H	DALI	1F	3F
084210	X	X	X	X	X	084210 1F	X
084211	X	X	X	X	X	084211 1F	X
084212	X	X	X	X	X	084212 1F	X
084213	X	X	X	X	X	084213 1F	X

Use of lighting fixtures in areas with danger of explosion

Marking of external influences

Area classification

		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 21.22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 1.2	ČSN EN 60079-14, ČSN EN 60079-10-1

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EXTRA-Ex-LED

IP 66 / Ex zone 1, 2I

5 year warranty



IK10 (5kg@40cm)



FTZÚ 16 ATEX 0167X



Application: The dustproof lighting fixture EXTRA-Ex-LED with splash water resistance is designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0167X).

Ballast: EP – electronic 110 – 254 V, 50/60 Hz AC, EP – electronic, 220 – 250 V, 0 Hz DC

Light source: LED, 4000K, CRI +80

Housing: Plastic material PC (polycarbonate), grey colour RAL 7035

Diffuser: Opal cover PC (polycarbonate)

Fastening: Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) or set of wall brackets - angle 45°, pole mounting via set of pole brackets, suspension by means of wire or cable suspenders.

Connection: Screwless three-pole terminal block, maximum diameter of wires 4 mm²

Standard equipment: 1pc EX plastic cable gland M20x1.5 (as a standard for diameter of cable 7-12mm), 1 pc EX plastic plug M20x1.5, 2 pcs stainless steel fastening bracket-AISI 304, stainless clips, double cable clip.

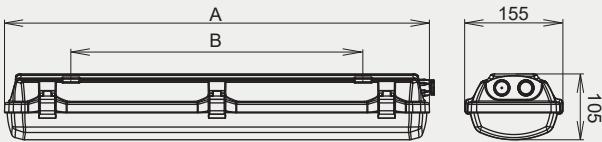
Calculated lifetime – LED modules:

L80B50 ta50 – 60 000h

EXTRA-Ex-LED, MULTIEXTRA-Ex-LED, EXTRA-Ex-LED-Em

Ⓜ II 2G Ex eb mb op is IIC T4 Gb

Ⓜ II 2D Ex tb op is IIIC T67°C Db

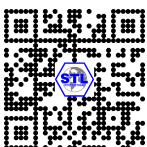


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A (mm)	Mounting spacing B (mm)	Equivalent**	Weight (kg)
050630	EXTRA-Ex-LED-OP-2750-218-4K	2345	16	147	50	670	460	2x18W	3,4
050610	EXTRA-Ex-LED-OP-4000-218-4K	3139	28	112	50	670	460	X	3,4
050631	EXTRA-Ex-LED-OP-5500-236-4K	4654	30	155	50	1280	880	2x36W	5,6
050611	EXTRA-Ex-LED-OP-8000-236-4K	6561	53	124	50*	1280	880	2x58W	5,6

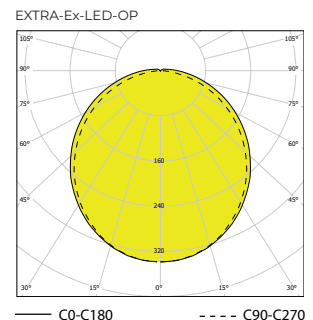
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

* in version for 110V 50/60 Hz declared for ta 40°C

** Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.



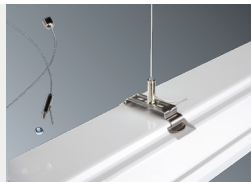
For areas with with the appearance of oily emulsions, aggressive chemicals, vibration, mechanical stress we recommend to use the fixtures series PITBUL-EX-LED, AQUA-EX-LED, EXTEND-EX-LED



Accessories on request



001696 Wire suspension EXTRA



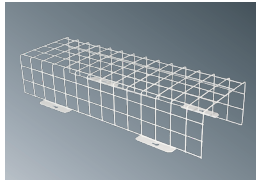
051131 Cable suspension EXTRA-2x (3m)



064643 Set of brackets to a wall - angle 45° EXTRA (2 pcs)



051157 Pole bracket EXTRA (for Ø 50 mm)



001748 LAK Protective cage EXTRA 18W
001749 LAK Protective cage EXTRA 36W
001750 LAK Protective cage EXTRA 58W

Standard accessories M20

008060	Plastic cable gland Ex M20x1.5
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm
008090	Plastic sealing plug Ex M20x1.5
008097	Plastic nut WISKA EMUG 20 M20x1.5

Accessories for armoured cable M20

008052	Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
008093	Nut WISKA EMMU20 M20x1.5 -nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Nickel-plated accessories M20

008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass (8 Nm)
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Lighting fixture detail



Marking system and overview of approved variants of lighting fixtures

EXTRA-Ex-LED-XXXX-YYY	lighting fixture type for standard operation
MULTIEXTRA-Ex-LED-XXXX-YYY	lighting fixture type for maintained emergency lighting
EXTRA-Ex-LED-Em-XXXX-YYY	lighting fixture type for non-maintained emergency lighting
XXXX*	indicates value of luminous flux (lumen) 4000/8000
YYY*	indicates the type of lighting fixture housing 218/236

On request

EM-1.5/3 - non-maintained emergency lighting

MULTI-1.5/3 - maintained emergency lighting

1/3 F - single-phase or three phase through wiring connection, max. diameter of wires 4 mm²

3000 / 4000 / 6000 K - colour temperature

Standard order number	EM-1,5H	EM-3H	MULTI-1,5H	MULTI-3H	DALI	1F	3F
050610	X	X	X	X	X	050610 1F	050610 3F
050611	050612	050613	050614	050615	X	050611 1F	050611 3F

Use of lighting fixtures in areas with danger of explosion

Danger of explosion of flammable dust

Danger of explosion of flammable gases and vapours

Marking of external influences

BE3N1

BE3N1

Marking

ZONE 21.22

ZONE 1.2

Area classification

Directive

ČSN EN 60079-14, ČSN EN 60079-10-2

ČSN EN 60079-14, ČSN EN 60079-10-1

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EXTRA-N-LED

IP 66 / zone 2, 22

5 year warranty

SILICONE FREE



IK10 (5kg@40cm)



FTZÚ 16 ATEX 0102X



Application: Dustproof lighting fixture EXTRA-N-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0102X).

Ballast: EP – electronic 220 – 240 V, 50/60 Hz, 220 – 240 V, 0 Hz DC

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: Plastic material PC (polycarbonate), grey colour RAL 7035

Diffuser: PC (polycarbonate) opal

Fastening: Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) or (optional) set of wall brackets - angle 45°, pole mounting via set of pole brackets, suspension by means of wire or cable suspension.

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

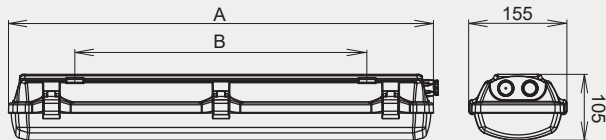
Standard equipment: 1pc EX plastic cable gland M20x1.5 (as a standard for diameter of cable 7-12mm), 1 pc EX plastic plug M20x1.5, 2 pcs stainless steel fastening bracket-AISI 304, stainless clips, double cable clip.

Calculated lifetime – LED modules: L80B10 ta30 – 70 000h, L70B10 ta30 – 100 000h

EXTRA-N-LED, MULTIEXTRA-N-LED, EXTRA-N-LED-Em

Ⓜ II 3G Ex nR IIC T6 Gc

Ⓜ II 3D Ex tc IIIC T80°C Dc

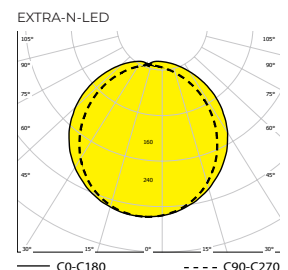


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A (mm)	Mounting spacing B (mm)	Weight (kg)
4000K								
055660	EXTRA-N-LED-1250-218-G2-4K, IP66	1125	8	150	60	670	460	1,8
055661	EXTRA-N-LED-2500-218-G2-4K, IP66	2251	15	150	60	670	460	1,8
055662	EXTRA-N-LED-5000-218-G2-4K, IP66	4357	29	150	55	670	460	1,7
055663	EXTRA-N-LED-2500-236-G2-4K, IP66	2251	15	155	60	1280	880	3,1
055664	EXTRA-N-LED-5000-236-G2-4K, IP66	4503	29	155	60	1280	880	3,1
055665	EXTRA-N-LED-10000-236-G2-4K, IP66	8715	58	150	40	1280	880	3,2
055666	EXTRA-N-LED-3750-258-G2-4K, IP66	3664	24	154	55	1580	1000	3,6
055667	EXTRA-N-LED-7500-258-G2-4K, IP66	7238	47	154	55	1580	1000	3,6
055668	EXTRA-N-LED-12550-258-G2-4K, IP66	11172	74	151	45	1580	1000	3,8
055669	EXTRA-N-LED-16700-258-G2-4K, IP66	13730	94	146	40	1580	1000	3,8
055670	EXTRA-N-LED-20000-258-G2-4K, IP66	16311	115	142	40	1580	1000	3,8

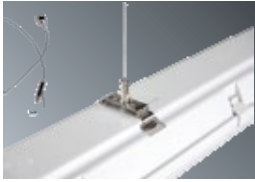

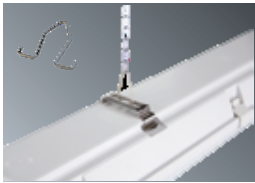

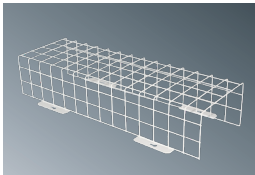
Tolerance of luminous flux and power input of the lighting fixture +/- 10%



SAFE answers to HAZARDOUS questions



Accessories on request

	<p>Suspended mounting</p> <p>051131 Cable suspension-EXTRA-2x (3m)</p>		<p>064643 Set of wall brackets - angle 45° EXTRA (2 pcs)</p>
	<p>Suspended mounting</p> <p>001696 Wire suspension EXTRA (Chain not included)</p>		<p>051157 Pole bracket EXTRA (for Ø 50 mm)</p>
	<p>001748 LAK Protective cage EXTRA 18W</p> <p>001749 LAK Protective cage EXTRA 36W</p> <p>001750 LAK Protective cage EXTRA 58W</p>		<p>Colour coated diffuser</p> <p>e.g. GREEN = Safety showers</p>

Standard accessories M20		Accessories for armoured cable M20		Nickel-plated accessories M20	
008060	Plastic cable gland Ex M20x1.5	008052	Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)	008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass (8 Nm)
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm	008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass	008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008090	Plastic sealing plug Ex M20x1.5	008093	Nut WISKA EMMU20 M20x1.5 -nickel-plated brass	008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
008097	Plastic nut WISKA EMUG 20 M20x1.5	007047N	Flat sealing ring EPDM 27x18.5x1.5 mm	007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Lighting fixture detail



On request

DIM – dimmable electronic ballast (DALI,DSI, 1-10V)

GESIS – possibility to equip lighting fixtures with connectors

NANO – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

EM-1/3 - non-maintained emergency lighting

MULTI-1/3 - maintained emergency lighting

2.7K-6.5K - colour temperature

1/3 F - single-phase or three phase through wiring connection 2.5 mm²

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
055660	055688	055695	055671	055660 1F	055660 3F
055661	055689	055696	055672	055661 1F	055661 3F
055662			055673	055662 1F	055662 3F
055663	055690	055697	055674	055663 1F	055663 3F
055664	055691	055698	055675	055664 1F	055664 3F
055665		055701LO*	055676	055665 1F	055665 3F
055666	055692	055699	055677	055666 1F	055666 3F
055667	055693	055700	055678	055667 1F	055667 3F
055668	055694	055701	055679	055668 1F	055668 3F
055669			055680	055669 1F	055669 3F
055670			055681	055670 1F	055670 3F

055701LO* - Due to the amount of internal heat generated, the emergency version of 055665 is only available in a 5ft body

EM

055682	EXTRA-N-LED-Em-500-218-G2-4K, IP66, 1h	055685	EXTRA-N-LED-Em-500-218-G2-4K, IP66, 3h
055683	EXTRA-N-LED-Em-500-236-G2-4K, IP66, 1h	055686	EXTRA-N-LED-Em-500-236-G2-4K, IP66, 3h
055684	EXTRA-N-LED-Em-500-258-G2-4K, IP66, 1h	055687	EXTRA-N-LED-Em-500-258-G2-4K, IP66, 3h

Use of lighting fixtures in areas with danger of explosion

Danger of explosion of flammable dust
 Danger of explosion of flammable gases and vapours

Marking of external influences

BE3N1
 BE3N2

Marking

ZONE 22
 ZONE 2

Area classification

Directive

ČSN EN 60079-14, ČSN EN 60079-10-2
 ČSN EN 60079-14, ČSN EN 60079-10-1

STL International Ltd

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EXTRA-LED

IP 66

5 year warranty

IK10 (5kg@40cm)



Application: Dustproof lighting fixture of new generation EXTRA-LED with splash water resistance is designed for workshops, warehouses, manufacturing areas, and garages.

Ballast: EP – electronic 220-240 V/50-60 Hz AC, 220-240 V DC

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: Plastic material PC (polycarbonate), ABS (acrylonitrile-butadiene-styrene), grey colour RAL 7035

Diffuser: PC (polycarbonate) opal, SAN (styrene-acrylonitrile) opal

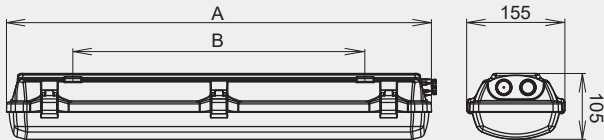
Fastening: Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) or set of wall brackets - angle 45°, pole mounting via set of pole brackets, suspension by means of wire or cable suspenders.

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm².

Standard equipment: Cable gland Pg13.5 for diameter of cable 7-12 mm and fastening brackets for direct fastening of lighting fixture to a mounting surface

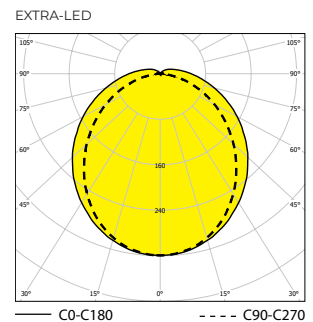
Calculated lifetime – LED modules:

L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A (mm)	Mounting spacing B (mm)	Weight (kg)
4000K								
055186	EXTRA-LED-1250-218-4K	1088	8	136	40	670	460	1,4
055187	EXTRA-LED-2500-218-4K	2175	16	136	40	670	460	1,4
055188	EXTRA-LED-5000-218-4K	4305	33	130	40	670	460	1,5
055183	EXTRA-LED-2500-236-4K	2224	17	131	45*	1280	880	2,3
055182	EXTRA-LED-5000-236-4K	4449	33	135	40*	1280	880	2,5
055184	EXTRA-LED-10000-236-4K	8611	66	130	40	1280	880	2,7
055181	EXTRA-LED-3750-258-4K	3337	25	133	45*	1580	1000	2,9
055180	EXTRA-LED-7500-258-4K	6674	50	133	45*	1580	1000	2,8
055185	EXTRA-LED-12550-258-4K	10777	80	135	40	1580	1000	3,2
055228 NSP	EXTRA-LED-16700-258-4K	13730	94	146	40	1580	1000	3,2
055240 NSP	EXTRA-LED-20000-258-4K	16311	115	142	40	1580	1000	3,2

Tolerance of luminous flux and power input of the lighting fixture +/- 10%
* NSP - in version with stainless steel clips its declared for ambient temperature ta 50°C



Accessories on request

	Suspended mounting 051131 Cable suspension-EXTRA-2x (3m)		064643 Set of wall brackets - angle 45° EXTRA (2 pcs)
	Suspended mounting 001696 Wire suspension EXTRA		051157 Pole bracket EXTRA (for Ø 50 mm)
	001748 LAK Protective cage EXTRA 18W 001749 LAK Protective cage EXTRA 36W 001750 LAK Protective cage EXTRA 58W		008029 Cable gland PG 13.5 with nut HEAVY DUTY RAL 7004
			008501 Sealing plug M20

Lighting fixture detail



On request

DIM – dimmable electronic ballast (DALI,DSI, 1-10V)
GESIS – possibility to equip lighting fixtures with connectors
NANO – lighting fixtures can be protected by a special nano-layer (hydrophobic, oleophobic or antibacterial protection)
1/3 F - single-phase or three phase through wiring connection, maximum diameter of wires 2.5 mm²
2.7K-6.5K - colour temperature
II - Insulation class II

EM-1/3 - non-maintained emergency lighting
MULTI-1/3 - maintained emergency lighting
NSP - stainless steel clip
ADELS - possibility to equip lighting fixtures with a connector terminal block
NUP - stainless steel fastening bracket
NSPP - stainless steel clip and fastening bracket
RN - outdoor application for uncovered areas

Stadard order number PC	MULTI-1H	MULTI-3H	DALI	1F	3F	RN	NSP	MULTI-1H-NSP	MULTI-3H-NSP	DALI-NSP
055186	055223	055224	055217	055186 1F	055186 3F	055206	055186 NSP	055223 NSP	055224 NSP	055217 NSP
055187	055190	055193	055218	055187 1F	055187 3F	055205	055187 NSP	055190 NSP	055193 NSP	055218 NSP
055188	X	X	055219	055188 1F	055188 3F	055204	055188 NSP	X	X	055219 NSP
055183	055220	055225	055201	055183 1F	055183 3F	055211	055183 NSP	055220 NSP	055225 NSP	055201 NSP
055182	055191	055194	055199	055182 1F	055182 3F	055209	055182 NSP	055191 NSP	055194 NSP	055199 NSP
055184	055221	055203	055216	055184 1F	055184 3F	055210	055184 NSP	055221 NSP	055203 NSP	055216 NSP
055181	055197	055196	055215	055181 1F	055181 3F	055212	055181 NSP	055197 NSP	055196 NSP	055215 NSP
055180	055192	055195	055189	055180 1F	055180 3F	055207	055180 NSP	055192 NSP	055195 NSP	055189 NSP
055185	055222*	055202*	055200	055185 1F	055185 3F	055208	055185 NSP	055222 NSP*	055202 NSP*	055200 NSP
055228	X	X	X	X	X	X	055228 NSP	X	X	055244 NSP
055240	X	X	X	X	X	X	055240 NSP	X	X	055243 NSP

* declared for reduced ambient temperature ta 30°C

Stadard order number SAN	MULTI-1H	MULTI-3H	DALI	1F	3F	EM
055086	055096	054956	055149	055086 1F	055086 3F	055230
055087	055097	054957	055147	055087 1F	055087 3F	055231
055088	055098	054958	055148	055088 1F	055088 3F	055232
055083	055093	054953	055143	055083 1F	055083 3F	055233
055082	055092	054952	055142	055082 1F	055082 3F	055234
055084	055094	054954	055144	055084 1F	055084 3F	055235
055081	055091	054951	055141	055081 1F	055081 3F	
055080	055090	054950	055140	055080 1F	055080 3F	
055085	055095*	054955*	055145	055085 1F	055085 3F	

* declared for reduced ambient temperature ta 30°C

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NORD-N-LED-OPG

IP 66 / Ex zone 2, 22

5 year warranty

SILICONE FREE

IK10 (5kg@40cm)



CE	EMC	EAC	ta -20°C min	EVG	EVG DIMM	LED	5 years Warranty	RoHS	nanotechnology	Ex	220-240 V 50-60 Hz	220-240V 0 Hz	IK 10	FTZÚ 17 ATEX 0026X
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Application: The dustproof recessed lighting fixture NORD-N-LED with splash water resistance is designed for areas with danger of explosions. They can be used in paint boxes and paint shops. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0026X).

Ballast: EP – electronic 220-240V/50-60Hz AC, 220-240V, 0 Hz DC

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: OPG – opal hardened safety glass in a frame

Reflector: White painted steel sheet RAL 9003

Fastening: Recessed ceiling mounting (it is necessary to ensure sufficiently strong supporting base)

Connection: Screwless three-pole terminal block, max. diameter of wires 2.5 mm²

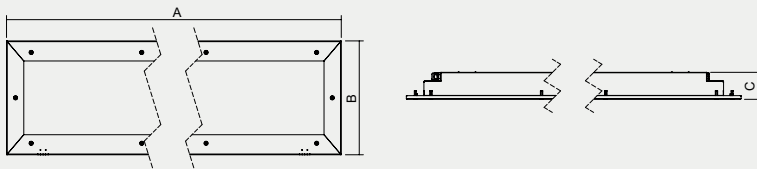
Standard equipment: 2 pcs EX M20 cable glands for diameter of cable 7-12mm and 3 pcs EX M20 sealing plug

Calculated lifetime – LED modules: L80B10 ta35 – 70 000h
L70B10 ta35 – 100 000h

NORD-N-LED, MULTINORD-N-LED, NORD-N-LED-Em

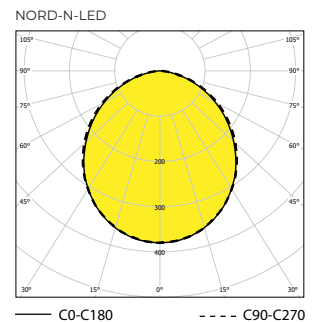
Ⓜ II 3G Ex nR IIC T6 Gc

Ⓜ II 3D Ex tc IIIC T80 °C Dc



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting hole (mm)	Weight (kg)
080100	NORD-N-LED-OPG-5000-218-G2-4K	4524	29	156	60	767x386x92	720x330	9,5
080101	NORD-N-LED-OPG-10000-236-G2-4K	9048	58	156	50	1367x386x92	1320x330	16,3
080102	NORD-N-LED-OPG-15000-258-G2-4K	13572	88	154	45	1667x386x92	1620x330	20,9
080103	NORD-N-LED-OPG-10000-418-G2-4K	9172	58	158	55	767x536x92	720x480	13,4
080104	NORD-N-LED-OPG-18300-436-G2-4K	16489	103	160	50	1367x536x92	1320x480	22,4
080105	NORD-N-LED-OPG-29000-458-G2-4K	26322	166	159	45	1667x536x92	1620x480	27,7

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Accessories on request

Standard accessories M20

008060	Plastic cable gland Ex M20x1.5
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm
008097	Plastic nut WISKA EMUG 20 M20x1.5
008090	Sealing plug Ex M20x1.5

Accessories for armoured cable M20

008052	Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Accessories for armoured cable M25

008056	BIMED KBA 2M(25) Brass M25x1.5
008089	Plastic sealing plug Ex M25x1.5
008035	Nut WISKA EMMU25 M25x1.5 - nickel-plated brass
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

Standard accessories M25

008061	Cable gland OBO V-TEC EX M25x1.5 - 2050331 (5.0 Nm)
008089	Plastic sealing plug Ex M25x1.5
008102	Plastic nut WISKA EMUG 25 M25x1.5 black
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

Nickel-plated accessories M20

008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass (8 Nm)
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Lighting fixture detail



On request

DIM – dimmable electronic ballast (DALI)

2.7K-6.5K - colour temperature

EM-1h/3h - non-maintained emergency lighting

MULTI-1h/3h - maintained emergency lighting

1/3 F - single-phase or three phase through wiring connection, max. diameter of wires 2.5mm²

NEREZ – housing produced from stainless steel AISI 304 or AISI 316

(in case of the design STAINLESS, the ambient temperature lower by approximately 5-10°C)

RAL - other colour scale

NANO lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

Standard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
080100	080106	080112	080100 DALI	080100 1F	080100 3F
080101	080107	080113	080101 DALI	080101 1F	080101 3F
080102	080108	080114	080102 DALI	080102 1F	080102 3F
080103	080109	080115	080103 DALI	080103 1F	080103 3F
080104	080110	080116	080104 DALI	080104 1F	080104 3F
080105	080111	080117	080105 DALI	080105 1F	080105 3F

Use of lighting fixtures in areas with danger of explosion

Danger of explosion of flammable dust

Danger of explosion of flammable gases and vapours

Marking of external influences

BE3N1

BE3N2

Area classification

Marking

Directive

ZONE 22

ZONE 2

ČSN EN 60079-14, ČSN EN 60079-10-2

ČSN EN 60079-14, ČSN EN 60079-10-1



NORD-N-LED-CG

IP 66 / Ex zone 2, 22

5 year warranty

SILICONE FREE



IK10 (5kg@40cm)



CE	EMC	EAC	ta -20°C min	EVG	EVG DIMM	LED	5 years Warranty	RoHS	nanotechnology	Ex	220-240 V 50-60 Hz	220-240V 0 Hz	IK 10	FTZÚ 17 ATEX 0026X
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Application: The dustproof recessed lighting fixture NORD-N-LED with splash water resistance is designed for areas with danger of explosions. They can be used in paint boxes and paint shops. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0026X).

Ballast: EP – electronic 220-240V/50-60Hz AC, 220-240V, 0 Hz DC

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: CG – clear hardened safety glass in a frame

Optics: ACL LINEAR LENS 24mm BATWING

Reflector: White painted steel sheet RAL 9003

Fastening: Recessed ceiling mounting (it is necessary to ensure sufficiently strong supporting base)

Connection: Screwless three-pole terminal block, max. diameter of wires 2.5 mm²

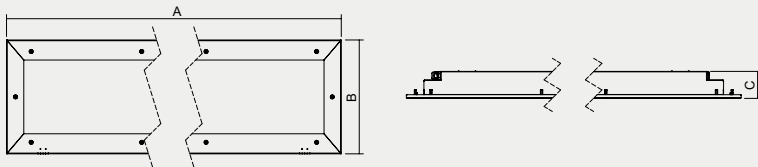
Standard equipment: 2 pcs EX M20 cable glands for diameter of cable 7-12mm and 3 pcs EX M20 sealing plug

Calculated lifetime – LED modules: L80B10 ta35 – 70 000h, L70B10 ta35 – 100 000h

NORD-N-LED, MULTINORD-N-LED, NORD-N-LED-Em

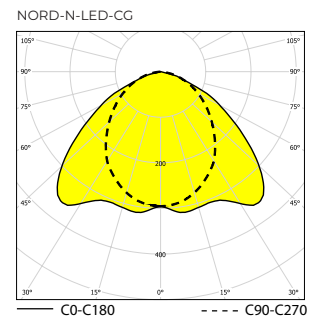
Ⓜ II 3G Ex nR IIC T6 Gc

Ⓜ II 3D Ex tc IIIC T80 °C Dc



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting hole (mm)	Weight (kg)	Replacement of T8 (W)
080120	NORD-N-LED-CG-2100-218-G2-4K	1830	11	166	60	767x386x92	720x330	9,5	2x18
080123	NORD-N-LED-CG-3400-418-G2-4K	2899	18	161	55	767x536x92	720x480	13,4	3x18
080126	NORD-N-LED-CG-4000-418-G2-4K	3593	22	163	55	767x536x92	720x480	13,4	4x18
080121	NORD-N-LED-CG-5100-236-G2-4K	4669	30	155	50	1367x386x92	1320x330	16,3	2x36
080124	NORD-N-LED-CG-8200-436-G2-4K	7186	45	159	50	1367x536x92	1320x480	22,4	3x36
080127	NORD-N-LED-CG-9500-436-G2-4K	8538	54	158	50	1367x536x92	1320x480	22,4	4x36
080122	NORD-N-LED-CG-8000-258-G2-4K	7396	47	157	45	1667x386x92	1620x330	20,9	2x58
080125	NORD-N-LED-CG-12500-458-G2-4K	10779	67	160	45	1667x536x92	1620x480	27,7	3x58
080128	NORD-N-LED-CG-15000-458-G2-4K	12807	81	158	45	1667x536x92	1620x480	27,7	4x58

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Accessories on request

Standard accessories M20

008060	Plastic cable gland Ex M20x1.5
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm
008097	Plastic nut WISKA EMUG 20 M20x1.5
008090	Sealing plug Ex M20x1.5

Accessories for armoured cable M20

008052	Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Accessories for armoured cable M25

008056	BIMED KBA 2M(25) Brass M25x1.5
008089	Plastic sealing plug Ex M25x1.5
008035	Nut WISKA EMMU25 M25x1.5 - nickel-plated brass
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

Standard accessories M25

008061	Cable gland OBO V-TEC EX M25x1.5 - 2050331 (5.0 Nm)
008089	Plastic sealing plug Ex M25x1.5
008102	Plastic nut WISKA EMUG 25 M25x1.5 black
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

Nickel-plated accessories M20

008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass (8 Nm)
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Lighting fixture detail



On request

DIM – dimmable electronic ballast (DALI)

2.7K-6.5K - colour temperature

EM-1h/3h - non-maintained emergency lighting

MULTI-1h/3h - maintained emergency lighting

1/3 F - single-phase or three phase through wiring connection, max. diameter of wires 2.5mm²

NEREZ – housing produced from stainless steel AISI 304 or AISI 316

(in case of the design STAINLESS, the ambient temperature lower by approximately 5-10°C)

RAL - other colour scale

NANO lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

Standard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
080120	080129	080138	080120 DALI	080120 1F	080120 3F
080121	080130	080139	080121 DALI	080121 1F	080121 3F
080122	080131	080140	080122 DALI	080122 1F	080122 3F
080123	080132	080141	080123 DALI	080123 1F	080123 3F
080124	080133	080142	080124 DALI	080124 1F	080124 3F
080125	080134	080143	080125 DALI	080125 1F	080125 3F
080126	080135	080144	080126 DALI	080126 1F	080126 3F
080127	080136	080145	080127 DALI	080127 1F	080127 3F
080128	080137	080146	080128 DALI	080128 1F	080128 3F

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 2	ČSN EN 60079-14, ČSN EN 60079-10-1



PITBUL-N-LED

IP 65 / zone 2, 22

5 year warranty

SILICONE FREE

IK10 (5kg@40cm)



FTZÚ 17 ATEX 0129X



Application: Dustproof lighting fixture PITBUL-N-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0129X).

Ballast: EP – electronic 220-240 V, 50/60 Hz, 220 – 240 V, 0 Hz DC

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: Opal hardened safety glass

Fastening: Direct surface mounting by means of M8 screws, suspension via suspending brackets, recessed mounting via the frame, ceiling mounting via set of ceiling brackets, pole mounting via set of pole brackets, wall mounting via set of adjustable brackets.

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

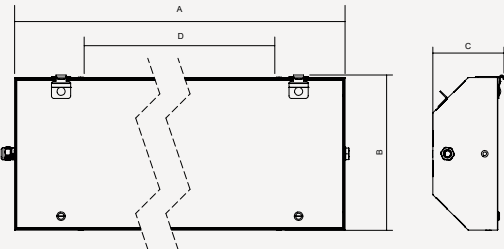
Standard equipment: 1pc EX plastic cable gland M20x1,5 for diameter of cable 7-12mm, 1pc EX plastic sealing plug

Calculated lifetime – LED modules: L80B10 ta35 – 70 000h, L70B10 ta35 – 100 000h

PITBUL-N-LED, MULTIPITBUL-N-LED, PITBUL-N-LED-Em

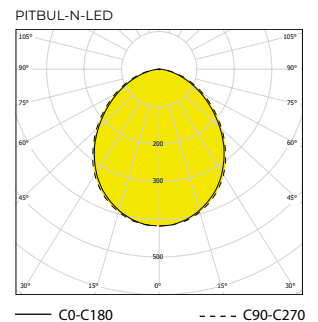
Ⓜ II 3G Ex nR IIC T6 Gc

Ⓜ II 3D Ex tc IIIC T63°C Dc

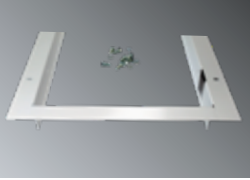

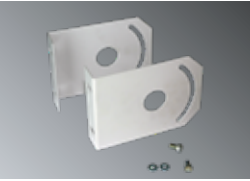




Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Weight (kg)
053790	PITBUL-N-LED-OP-5000-218-4K	4470	35	128	65	703x310x142	450	9,1
053791	PITBUL-N-LED-OP-10000-236-4K	8940	70	128	55	1313x310x142	800	13,8
053792	PITBUL-N-LED-OP-15000-258-4K	13410	104	129	55	1613x310x142	1100	16,6
053793	PITBUL-N-LED-OP-10000-418-4K	8899	70	127	55	703x369x142	450	8,9
053794	PITBUL-N-LED-OP-18300-436-4K	15895	121	131	50	1313x369x142	800	16,1
053795	PITBUL-N-LED-OP-29000-458-4K	24845	195	127	45	1613x369x142	1100	19,6

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Accessories on request

	053941 Set of recessed frame PITBUL 1x-3x18W 053942 Set of recessed frame PITBUL 4x18W 053943 Set of recessed frame PITBUL 1x-3x36W 053944 Set of recessed frame PITBUL 4x36W 053945 Set of recessed frame PITBUL 1x-3x58W 053946 Set of recessed frame PITBUL 4x58W		054935 Set of stainless steel ceiling brackets PITBUL (2 pcs)
	053940 Set of adjustable brackets PITBUL		004642 Suspension bracket DIN 580 M8 - 1 pc
	051146 Pole bracket PITBUL (for Ø 50 mm)	Accessories for armoured cable M20 008052 Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm) 008091 Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass 008093 Nut WISKA EMMU20 M20x1.5 - nickel-plated brass 007047N Flat sealing ring EPDM 27x18.5x1.5 mm	

Accessories for armoured cable M25

008056	BIMED KBA 2M(25) Brass M25x1.5
008089	Plastic Ex sealing plug M25x1.5
008035	Nut WISKA EMMU25 M25x1.5 - nickel-plated brass
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

Accessories M25

008061	Cable gland OBO V-TEC EX M25x1.5 - 2050331 (5.0 Nm)
008089	plastic Ex sealing plug M25x1.5
008102	Plastic nut WISKA EMUG 25 M25x1.5 black
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

Nickel-plated accessories M20

008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass (8 Nm)
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

Lighting fixture detail



On request

- DIM** – dimmable electronic ballast (DALI, DSI, 1-10V)
- GESIS** – possibility to equip lighting fixtures with connectors
- MULTI-1/3** - maintained emergency lighting
- EM-1/3** - non-maintained emergency lighting
- NANO** – lighting fixtures can be protected by special nano-layer oleophobic or antibacterial protection)
- 2.7K-6.5K** - colour temperature
- RAL** - other colour scale
- 1/3 F** - single-phase or three phase through wiring connection, maximum diameter of wires 1.5 mm²
- NEREZ** - housing produced from stainless steel AISI 304 or AISI 316 (in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
053790	053530	053536	053542	053790 1F	053790 3F
053791	053531	053537	053543	053791 1F	053791 3F
053792	053532	053538	053544	053792 1F	053792 3F
053793	053533	053539	053545	053793 1F	053793 3F
053794	053534	053540	053546	053794 1F	053794 3F
053795	053535	053541	053547	053795 1F	053795 3F

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 2	ČSN EN 60079-14, ČSN EN 60079-10-1

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GALGO-LED

IP 65

5 year warranty

ANTI-LIGATURE



IK10++ 120J



Application: Antivandal lighting fixture GALGO-LED with dust and water jets resistance is designed for areas with high risk of damage, i.e. prison cells, psychiatric hospitals, gyms and pedestrian subways.

Ballast: EP – electronic 220-240V /50-60Hz AC, 220-240V DC 0Hz

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: Extremely resistant material PC (polycarbonate)

Fastening: Surface wall or ceiling mounting

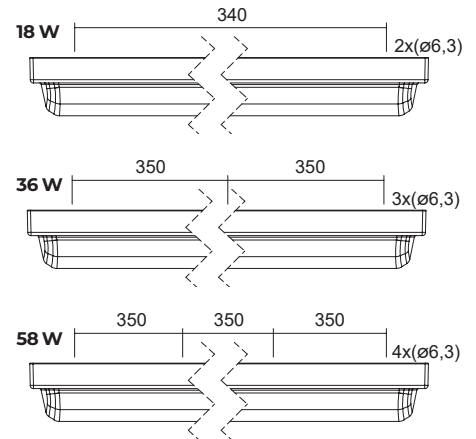
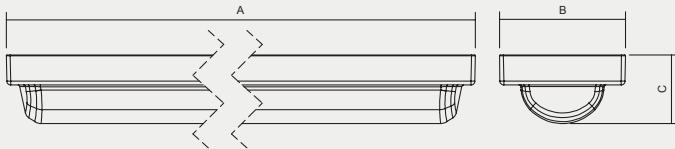
Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

Calculated lifetime – LED modules:

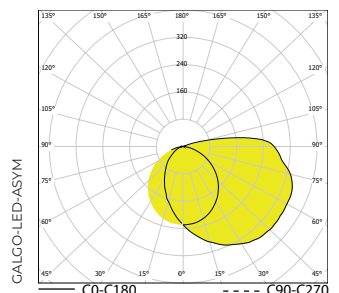
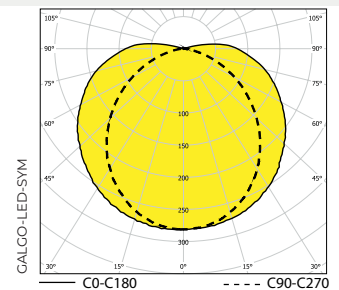
L80B10 ta30 – 70 000h

L70B10 ta30 – 100 000h



Order number	Name	Lighting fixture luminous flux(lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Weight (kg)
SYM							
051770	GALGO-LED-1250-118-4K	1110	8	139	40	690x198x108	6,3
051771	GALGO-LED-2500-218-4K	2220	16	139	40	690x198x108	5,5
051772	GALGO-LED-5000-218-4K	4650	33	141	40	690x198x108	6,3
051773	GALGO-LED-2500-136-4K	2271	17	134	60	1300x198x108	11
051774	GALGO-LED-5000-236-4K	4542	33	138	60	1300x198x108	11
051775	GALGO-LED-10000-236-4K	9300	66	141	40	1300x198x108	11
051776	GALGO-LED-3750-158-4K	3406	25	136	50	1600x198x108	13
051777	GALGO-LED-7500-258-4K	6813	50	136	50	1600x198x108	13
051778	GALGO-LED-12550-258-4K	11639	80	145	40	1600x198x108	13
ASYM							
051795	GALGO-LED-ASYM-3800-218-4K	3273	25	131	30	696x198x108	5,5
051796	GALGO-LED-ASYM-7600-236-4K	6546	49	134	30	1306x198x108	11
051797	GALGO-LED-ASYM-10500-258-4K	7637	56	137	30	1606x198x108	13

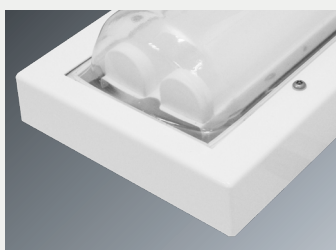
Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Order number	Name	Lighting fixture luminous flux(lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Weight (kg)
SYM							
051770 FF	GALGO-LED-FF-1250-118-4K	1110	8	139	40	696x198x108	6,5
051771 FF	GALGO-LED-FF-2500-218-4K	2220	16	139	40	696x198x108	5,2
051772 FF	GALGO-LED-FF-5000-218-4K	4650	33	141	40	696x198x108	6,5
051773 FF	GALGO-LED-FF-2500-136-4K	2271	17	134	60	1306x198x108	11,2
051774 FF	GALGO-LED-FF-5000-236-4K	4542	33	138	60	1306x198x108	11,2
051775 FF	GALGO-LED-FF-10000-236-4K	9300	66	141	40	1306x198x108	11,2
051776 FF	GALGO-LED-FF-3750-158-4K	3406	25	136	50	1606x198x108	13,2
051777 FF	GALGO-LED-FF-7500-258-4K	6813	50	136	50	1606x198x108	13,2
051778 FF	GALGO-LED-FF-12550-258-4K	11639	80	145	40	1606x198x108	13,2
ASYM							
051795 FF	GALGO-LED-FF-ASYM-3800-218-4K	3273	25	131	30	690x198x108	6,5
051796 FF	GALGO-LED-FF-ASYM-7600-236-4K	6546	49	134	30	1300x198x108	11,2
051797 FF	GALGO-LED-FF-ASYM-10500-258-4K	7637	56	137	30	1600x198x108	13,2

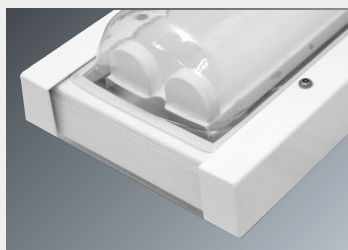
FF (full frame)

VYRTYCH antivandal luminaires with FF marking comply with ANTI LIGATURE or SUICIDE RESISTANT requirements for areas with high risk of damage like prison or a secure healthcare facility. There are generally no moving or protruding parts or rounded, bevelled corners also prevent points, where something can be attached. This means there are no ligature points or attachment areas that could enable a luminaire to be used for self-harming.



GALGO-LED-FF

This type of luminaire is equipped with a diffuser with a complete sheet metal frame.



GALGO-LED

This type of luminaire is equipped with a diffuser, which is complemented on the long sides by a reinforcing sheet metal rim.

On request

Em – non-maintained emergency lighting (1h, 3h)

DIM – dimmable electronic ballast (DSI, DALI)

2.7K-6.5K – colour temperature

MULTI – maintained emergency lighting (1h, 3h)

NANO – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

RAL – other colour scale

MW SENSOR - microwave sensor (if a sensor is required, contact technical support)

NEREZ - housing produced from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient

temperature decreased about 5-10°C)

NIGHT LIGHT - equipped with 4-8W LED source for night-time lighting

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
051770	051790	X	051770 DALI	X	X
051771	051780	X	051771 DALI	X	X
051772	X	X	051772 DALI	X	X
051773	051791	051793	051773 DALI	X	X
051774	051781	051784	051774 DALI	X	X
051775	X	X	051775 DALI	X	X
051776	051792	051794	051776 DALI	X	X
051777	051782	051785	051777 DALI	X	X
051778	X	X	051778 DALI	X	X

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
051770 FF	X	X	051770 FF DALI	X	X
051771 FF	051780 FF	051783 FF	051771 FF DALI	X	X
051772 FF	X	X	051772 FF DALI	X	X
051773 FF	X	X	051773 FF DALI	X	X
051774 FF	051781 FF	051784 FF	051774 FF DALI	X	X
051775 FF	X	X	051775 FF DALI	X	X
051776 FF	X	X	051776 FF DALI	X	X
051777 FF	051782 FF	051785 FF	051777 FF DALI	X	X
051778 FF	X	X	051778 FF DALI	X	X



RAMBO-LED-FL

IP 66 / IP 67, IP 42

5 year warranty



IK10+ 60J



Application: Dustproof antivandal lighting fixture RAMBO-LED with splash water resistance is designed for areas with high risk of damage, such as prison cells, psychiatric hospitals, underpasses, tunnels, underground stations and railway station platforms.

Ballast: EP – electronic 220-240 V / 50-60 Hz AC, 220-240V DC 0Hz

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet (RAL 9003) equipped with plastic end caps (polycarbonate)

Diffuser: Tube of 70 mm external diameter and 4 mm wall thickness made of opal polycarbonate, equipped with sealing plugs in case of IP66/IP67 version

Fastening: Surface wall or ceiling mounting

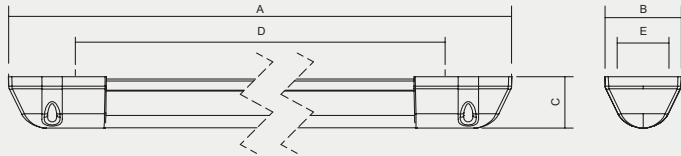
Connection: Screw connector terminal block, maximum diameter of wires 2.5 mm²

Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 002020 RAMBO special key for safety screws)

Calculated lifetime – LED modules:

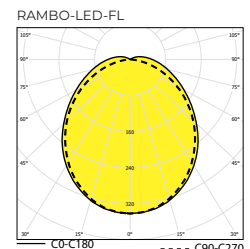
L80B10 ta30 – 70 000h

L70B10 ta30 – 100 000h



Order number	Name	Lighting fixture luminous flux (lm)	Lighting fixture luminous flux NL (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing Dx E (mm)	Weight (kg)
IP66/IP67									
084084	RAMBO-LED-FL-2500-4K, IP66/IP67, l=955 mm	1929	-	17	113	30	955x112x76	779x60 (Ø8)	5,3
084086	RAMBO-LED-FL-5000-4K, IP66/IP67, l=1445 mm	3858	-	33	117	30	1445x112x76	1276x60 (Ø8)	7,5
084087	RAMBO-LED-FL-7500-4K, IP66/IP67, l=1910 mm	5787	-	50	116	30	1910x112x76	1742x60 (Ø8)	8,8
IP66/IP67 - NL (version with night light)									
084262	RAMBO-LED-FL-NL-2500-4K, IP66/IP67, l=1020 mm	1929	455	17	113	50	1020x112x76	844x60 (Ø8)	6,3
084263	RAMBO-LED-FL-NL-5000-4K, IP66/IP67, l=1510 mm	3858	455	33	117	40	1510x112x76	1342x60 (Ø8)	8,3
IP42									
084220	RAMBO-LED-FL-2500-4K, IP42, l=955 mm	1929	-	17	113	30	955x112x76	779x60 (Ø8)	5,3
084221	RAMBO-LED-FL-5000-4K, IP42, l=1445 mm	3858	-	33	117	30	1445x112x76	1276x60 (Ø8)	7,5
084222	RAMBO-LED-FL-7500-4K, IP42, l=1910 mm	5787	-	50	116	30	1910x112x76	1742x60 (Ø8)	8,8
IP42 - NL (version with night light)									
084260	RAMBO-LED-FL-NL-2500-4K, IP42, l=1020 mm	1929	455	17	113	50	1020x112x76	844x60 (Ø8)	6,3
084261	RAMBO-LED-FL-NL-5000-4K, IP42, l=1510 mm	3858	455	33	117	40	1510x112x76	1342x60 (Ø8)	8,3

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



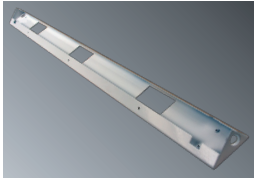
Accessories on request



004569 Screw with special head

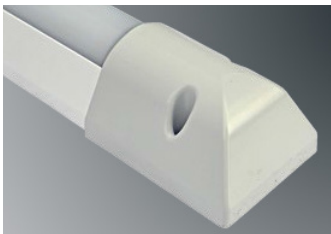


002020 Spanner for mounting and dismantling special screw



order number on request
Corner bracket 30°

Lighting fixture detail



On request

Em – non-maintained emergency lighting (1h, 3h)

DIM – dimmable electronic ballast (DSI, DALI)

2.7K-6.5K – colour temperature

NEREZ - housing produced from stainless steel AISI 304 or AISI 316 (in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

MW SENSOR - microwave sensor (in case of requirement for sensor contact the technical support)

NL - night light

MULTI – maintained emergency lighting (1h, 3h)

RAL – other colour scale

1/3 F – single-phase or three phase through wiring connection, maximum diameter of wires 2.5 mm²

Standard order number	EM-1,5H	EM-3H	MULTI-1,5H	MULTI-3H	DALI	1F	3F
IP66/IP67							
084085	X	X	084060	084063	084066	084085 1F	084085 3F
084262	X	X	X	X	X	084262 1F	084262 3F
084086	X	X	084061	084064	084067	084086 1F	084086 3F
084263	X	X	X	X	X	084263 1F	084263 3F
084087	X	X	084062	084065	084068	084087 1F	084087 3F
IP42							
084220	X	X	084223	084226	084229	084220 1F	084220 3F
084260	X	X	X	X	X	084260 1F	084260 3F
084221	X	X	084224	084227	084230	084221 1F	084221 3F
084261	X	X	X	X	X	084261 1F	084261 3F
084222	X	X	084225	084228	084231	084222 1F	084222 3F



BOXER-LED

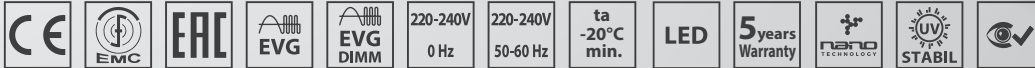
IP 65

5 year warranty

ANTI-LIGATURE



IK10+ 40J
IK10+ 50J(FC)



Application: Antivandal lighting fixture BOXER-LED with dust and splash water resistance is designed for areas with high risk of damage, i.e. prison cells, psychiatric hospitals, gyms and pedestrian subways.

Ballast: EP – electronic 220-240 V/50-60 Hz AC, 220-240 V

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: Polycarbonate in combination with painted steel frame RAL9003

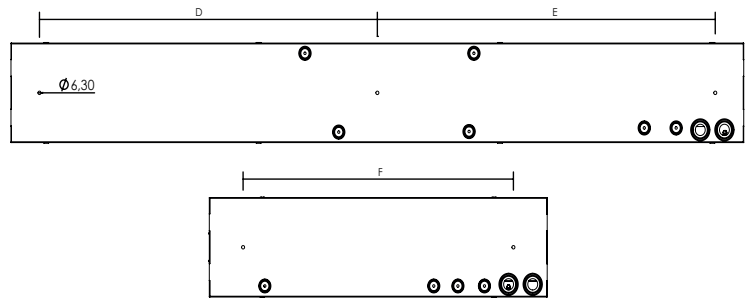
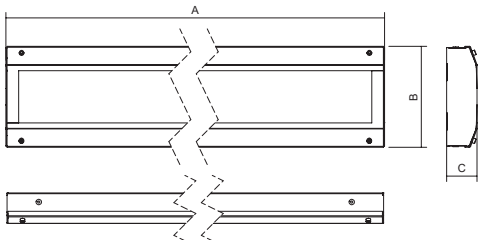
Reflector: Highly polished aluminium sheet

Fastening: Surface wall or ceiling mounting, recessed via frame for recessed installation or corner mounted via set for corner installation

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

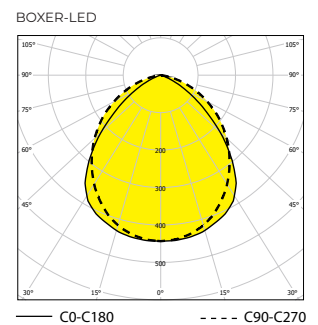
Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

Calculated lifetime – LED modules: L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing Dx E/F (mm)	Weight (kg)
053495	BOXER-LED-1450-4K	1123	8	140	55	421x184x56	320	2,8
053489	BOXER-LED-1650-4K	1413	11	128	55	421x184x56	320	2,8
053494	BOXER-LED-2900-4K	2393	18	133	60	701x184x56	540	4,7
053491	BOXER-LED-3300-4K	2826	22	128	60	701x184x56	540	4,7
053497	BOXER-LED-5800-4K	4786	36	133	55	1257x184x56	550x550	7
053487	BOXER-LED-6600-4K	5368	41	131	55	1257x184x56	550x550	7
053499	BOXER-LED-7200-4K	6350	48	132	45	1519x184x56	680x680	9
053485	BOXER-LED-8200-4K	6710	51	132	45	1519x184x56	680x680	9

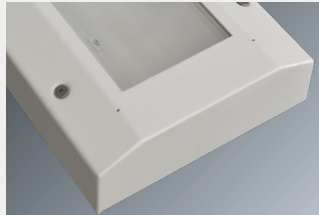
Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing Dx E/F (mm)	Weight (kg)
053495 FC	BOXER-LED-FC-1450-4K	1123	8	140	55	426x186x56	320	3
053489 FC	BOXER-LED-FC-1650-4K	1413	11	128	55	426x186x56	320	3
053494 FC	BOXER-LED-FC-2900-4K	2393	18	133	60	706x186x56	540	5
053491 FC	BOXER-LED-FC-3300-4K	2826	22	128	60	706x186x56	540	5
053497 FC	BOXER-LED-FC-5800-4K	4786	36	133	55	1262x186x56	550x550	7,3
053487 FC	BOXER-LED-FC-6600-4K	5368	41	131	55	1262x186x56	550x550	7,3
053499 FC	BOXER-LED-FC-7200-4K	6350	48	132	45	1524x186x56	680x680	9,5
053485 FC	BOXER-LED-FC-8200-4K	6710	51	132	45	1524x186x56	680x680	9,5

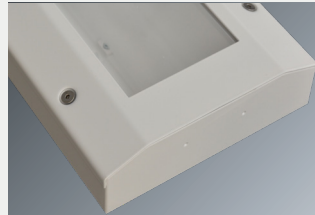
FC (full cover)

VYRTYCH antivandal luminaires with FC marking comply with ANTI LIGATURE or SUICIDE RESISTANT requirements for areas with high risk of damage like prison or a secure healthcare facility. There are generally no moving or protruding parts or rounded, bevelled corners also prevent points, where something can be attached. This means there are no ligature points or attachment areas that could enable a luminaire to be used for self-harming.



BOXER-LED-FC

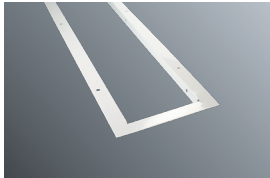
The luminaire of this type is equipped with a frame that completely covers the luminaire body. The impact resistance of this solution is 50J.



BOXER-LED

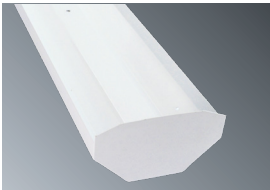
The luminaire of this type is equipped with a frame that covers the luminaire body by 10 mm. The impact resistance of this solution is 40J.

Accessories on request



053412	Recessed frame BOXER-LED 421
053413	Recessed frame BOXER-LED 701
053414	Recessed frame BOXER-LED 1257
053415	Recessed frame BOXER-LED 1519

The requirement to equip the luminaire with a soffit frame must be specified when ordering, or contact technical support. BOXER-LED-FC version cannot be equipped with a recessed frame.



053416	Set for corner installation BOXER-LED 421
053417	Set for corner installation BOXER-LED 701
053418	Set for corner installation BOXER-LED 1257
053419	Set for corner installation BOXER-LED 1519

BOXER-LED-FC version cannot be equipped with a corner mounting kit.

On request

Em – non-maintained emergency lighting (1h, 3h)

DIM – dimmable electronic ballast (DSI, DALI)

2.7K-6.5K – colour temperature

NEREZ - housing produced from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

MW SENSOR - microwave sensor (in case of requirement for sensor, contact the technical support)

MULTI – maintained emergency lighting (1h, 3h)

RAL – other colour scale

NANO – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

NIGHT LIGHT - equipped with 4-8W LED source for night-time lighting

SKLO – hardened safety glass

Standard order number	MULTI-1,5H	MULTI-3H	DALI	1F	3F
053495	053495 1H	053495 3H	053495 DALI	X	X
053489	053489 1H	053489 3H	053489 DALI	X	X
053494	053494 1H	053494 3H	053494 DALI	X	X
053491	053491 1H	053491 3H	053491 DALI	X	X
053497	053497 1H	053497 3H	053497 DALI	X	X
053487	053487 1H	053487 3H	053487 DALI	X	X
053499	053499 1H	053499 3H	053499 DALI	X	X
053485	053485 1H	053485 3H	053485 DALI	X	X

Standard order number	MULTI-1,5H	MULTI-3H	DALI	1F	3F
053495 FC	053495 FC 1H	053495 FC 3H	053495 FC DALI	X	X
053489 FC	053489 FC 1H	053489 FC 3H	053489 FC DALI	X	X
053494 FC	053494 FC 1H	053494 FC 3H	053494 FC DALI	X	X
053491 FC	053491 FC 1H	053491 FC 3H	053491 FC DALI	X	X
053497 FC	053497 FC 1H	053497 FC 3H	053497 FC DALI	X	X
053487 FC	053487 FC 1H	053487 FC 3H	053487 FC DALI	X	X
053499 FC	053499 FC 1H	053499 FC 3H	053499 FC DALI	X	X
053485 FC	053485 FC 1H	053485 FC 3H	053485 FC DALI	X	X

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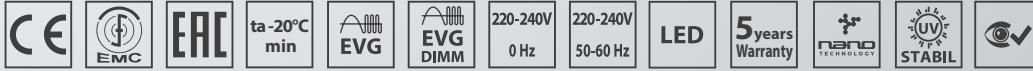


CLUMBER-LED

IP 64

5 year warranty

IK10 (5kg@40cm)



Application: Antivandal lighting fixture CLUMBER-LED with dust and splash water resistance is designed for areas with high risk of damage, i.e. prison cells, psychiatric hospitals, gyms and pedestrian subways.

Ballast: EP – electronic 220-240 V / 50-60 Hz AC, 220-240 V DC 0Hz

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: Combination of painted sheet RAL 9003 and opal polycarbonate diffuser

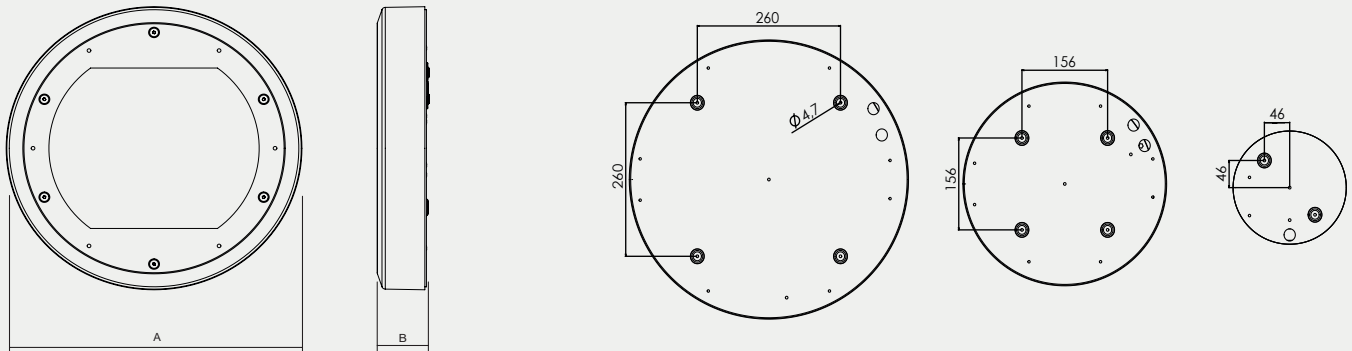
Reflector: Highly polished aluminium sheet

Fastening: Surface wall or ceiling mounting

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

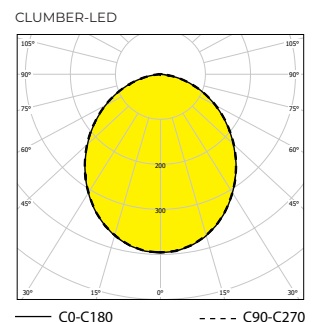
Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

Calculated lifetime – LED modules: L80B10 ta30 – 70 000h
L70B10 ta30 – 100 000h

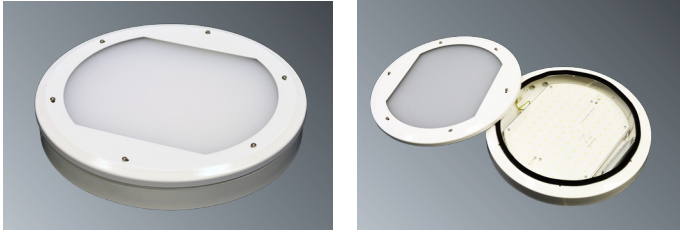


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B (mm)	Weight (kg)
053550	CLUMBER1-LED-OP-4500-4K	3276	29	113	30	505x63	7,5
053551	CLUMBER1-LED-OP-3900-4K	2842	25	114	30	505x63	7,5
053552	CLUMBER1-LED-OP-5100-4K	3693	34	109	30	505x63	7,5
053553	CLUMBER1-LED-OP-6200-4K	4472	43	104	30	505x63	7,5
053554	CLUMBER2-LED-OP-1950-4K	1404	13	108	30	370x63	4,2
053555	CLUMBER2-LED-OP-1700-4K	1218	11	111	30	370x63	4,2
053556	CLUMBER2-LED-OP-2200-4K	1582	14	113	30	370x63	4,2
053557	CLUMBER2-LED-OP-2650-4K	1916	18	106	30	370x63	4,2
053558	CLUMBER3-LED-OP-1150-4K	959	8	120	30	208x66	1,8
053559	CLUMBER3-LED-OP-1500-4K	1225	12	102	30	208x66	1,8

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Lighting fixture detail



On request

Em – non-maintained emergency lighting (1h, 3h)

DIM – dimmable electronic ballast (DSI, DALI)

NANO – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

MULTI – maintained emergency lighting (1h, 3h)

RAL – other colour scale

2.7K-6.5K – colour temperature

Standard order number	MULTI-1,5H	MULTI-3H	DALI	1F	3F
053550	053550 1H	053550 3H	053550 DALI	X	X
053551	053551 1H	053551 3H	053551 DALI	X	X
053552	053552 1H	053552 3H	053552 DALI	X	X
053553	053553 1H	053553 3H	053553 DALI	X	X
053554	053554 1H	X	053554 DALI	X	X
053555	053555 1H	X	053555 DALI	X	X
053556	053556 1H	X	053556 DALI	X	X
053557	053557 1H	X	053557 DALI	X	X
053558	X	X	053558 DALI	X	X
053559	X	X	053559 DALI	X	X



STAFORD-LED

IP 65

5 year warranty



Application: Recessed antivandal lighting fixture STAFORD-LED with resistance against dust and with splash water resistance is designed for areas with high risk of damage, such as prison cells, psychiatric hospitals, underpasses, tunnels, underground stations and railway station platforms.

Ballast: EP – electronic 220-240 V / 50-60 Hz AC , 220-240V DC 0Hz

Light source: LED, 4000K, CRI +80, MacAdam3

Housing: White painted steel sheet RAL 9003

Diffuser: Combination of painted sheet RAL 9003 and opal polycarbonate diffuser

Reflector: White painted steel sheet RAL 9003

Fastening: Recessed ceiling mounting

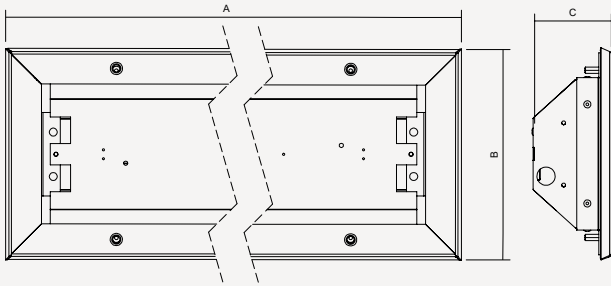
Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

Calculated lifetime – LED modules:

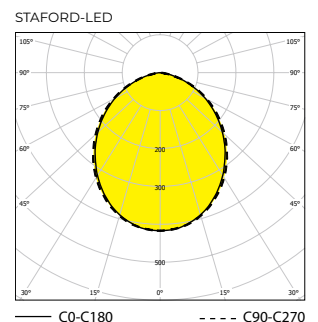
L80B10 ta30 – 70 000h

L70B10 ta30 – 100 000h



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting hole (mm)	Weight (kg)
057690	STAFORD-LED-OP-3500-4K	2562	21	122	30	653x255x95	605x200	6
057691	STAFORD-LED-OP-4650-4K	3368	29	116	30	653x255x95	605x200	6
057692	STAFORD-LED-OP-5350-4K	3890	34	114	30	653x255x95	605x200	6
057693	STAFORD-LED-OP-7000-4K	5052	43	117	30	953x255x95	905x200	10
057694	STAFORD-LED-OP-8000-4K	5838	51	114	30	953x255x95	905x200	10
057695	STAFORD-LED-OP-9300-4K	6736	58	116	30	1253x255x95	1205x200	14
057696	STAFORD-LED-OP-10650-4K	7781	68	114	30	1253x255x95	1205x200	14

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



Accessories on request



002022	STAFORD installation box L=1 253 mm
002025	STAFORD installation box L= 953 mm
002026	STAFORD installation box L= 653 mm

note: only in case of concrete base / concrete niche

Lighting fixture detail



On request

Em – non-maintained emergency lighting (1h, 3h)

DIM – dimmable electronic ballast (DSI, DALI)

2.7K-6.5K – colour temperature

NANO – lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

GLASS – hardened safety glass

MW SENSOR - microwave sensor (in case of requirement for a sensor, contact the technical support)

MULTI – maintained emergency lighting (1h, 3h)

RAL – other colour scale

1/3 F – single-phase or three phase through wiring connection, maximum diameter of wires 2.5 mm²

NEREZ - housing produced from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

NIGHT LIGHT - equipped with 4-8W LED source for night-time lighting 3K or 4K

II - insulation class II

Standard order number	EM-1H	EM-3H	MULTI-1H	MULTI-3H	DALI	1F	3F
057690	X	X	X	X	057690 DALI	X	X
057691	X	X	X	X	057691 DALI	X	X
057692	X	X	X	X	057692 DALI	X	X
057693	X	X	057693 1H	057693 3H	057693 DALI	X	X
057694	X	X	057694 1H	057694 3H	057694 DALI	X	X
057695	X	X	057695 1H	057695 3H	057695 DALI	X	X
057696	X	X	057696 1H	057696 3H	057696 DALI	X	X

IK RATING according to EN 62262



IK ratings help to classify products by its resistance to impacts by Kinetic energy, while EN 62262 specifies the way enclosures should be mounted when tests are carried out, the atmospheric conditions that should prevail, the number of impacts (5) and their (even) distribution, and the size, style, material, dimensions etc. of the various types of hammer designed to produce the energy levels required.

IK code and impact energy (values changed in Amd 1:1998)

IK code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact energy (joule)	*	0.14	0.2	0.35	0.5	0.7	1	2	5	10	20

Impact test characteristics

IK code	IK00	IK01 to IK05	IK06	IK07	IK08	IK09	IK10
Impact energy (joules)	*	<1	1	2	5	10	20
R mm (radius of striking element)	*	10	10	25	25	50	50
Material	*	polyamide ¹	polyamide ¹	steel ²	steel ²	steel ²	steel ²
Mass kg	*	0.2	0.5	0.5	1.7	5	5
Free fall height m	*	*	*	0.40	0.30	0.20	0.40
Pendulum hammer	*	Yes	Yes	Yes	Yes	Yes	Yes
Spring hammer	*	Yes	Yes	Yes	No	No	No
Free fall hammer	*	No	No	Yes	Yes	Yes	Yes

* not protected according to the standard

1. HR 100 Rockwell hardness according to ISO 2039/2
2. Fe 490-2 according to ISO 1052, Rockwell hardness HR 50 to HR 58 according to ISO 6508



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