



LIGHTING FIXTURES FOR HIGH IMPACT RISK

JULY 2021



NOTES

[illegible]



EXTRA-EX-LED

(Impact Resistance 10J)

Linear_PC



EXTRA-N-LED

(Impact Resistance 10J)

Linear_PC



EXTRA-LED

(Impact Resistance 10J)

Linear_PC



RAMBO-EX-LED

(Impact Resistance 60J)

Linear_Metal/304SS/PC



RAMBO-LED

(Impact Resistance 60J)

Linear_PC



GALGO-LED

(Impact Resistance 120J)

Linear_Linear_Metal/304SS/PC



BOXER-LED

(Impact Resistance 10J)

Linear_Metal/304SS/PC



CLUMBER-LED

(Impact Resistance 10J)

Bulkhead_Metal/304SS/PC



STAFORD-LED

(Impact Resistance 10J)

Recessed_Metal/304SS/PC



EXTRA-Ex-LED

IP 66 / Ex zone 1, 2I

5 year warranty



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.

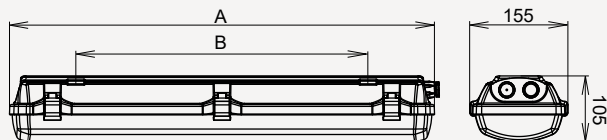
Calculated lifetime – LED modules:

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)	Weight (kg)
050610	EXTRA-Ex-LED-OP-4000-218-4K	3139	28	112	50	670	460	3,4
050611	EXTRA-Ex-LED-OP-8000-236-4K	6561	53	124	50*	1280	880	5,6

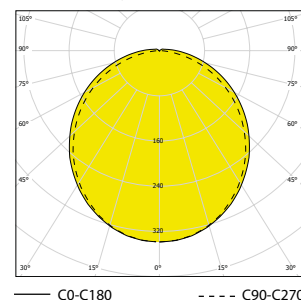
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

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



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

EXTRA-Ex-LED-OP



Accessories on request



001696 Wire suspension EXTRA



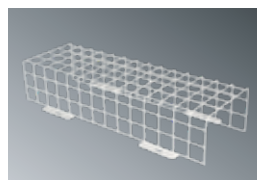
051131 Cable suspension EXTRA-2x (3m)



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		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



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	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	BE3N1	ZONE 1.2	ČSN EN 60079-14, ČSN EN 60079-10-1

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EXTRA-N-LED

IP 66 / zone 2, 22

5 year warranty



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 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

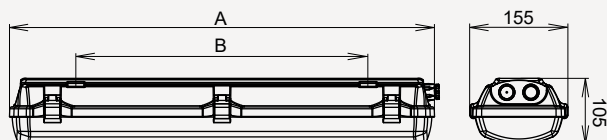
Standard equipment: 1pc EX plastic cable gland M20x1.5 (as a standard for diameter of cable 7-12mm), 1 pc EX plastic plug M20x1.5, 2 pcs stainless steel fastening bracket-AISI 304, stainless clips, double cable clip.

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

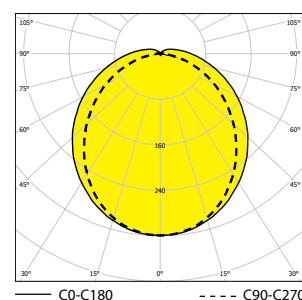
Ⓜ II 3D Ex tc IIIC T62°C Dc



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								
055260	EXTRA-N-LED-1250-218-4K	1089	8	136	40	670	460	1,4
055261	EXTRA-N-LED-2500-218-4K	2177	16	136	45	670	460	1,4
055262	EXTRA-N-LED-5000-218-4K	4310	33	131	40	670	460	1,5
055263	EXTRA-N-LED-2500-236-4K	2227	17	131	45	1280	880	2,3
055264	EXTRA-N-LED-5000-236-4K	4454	33	135	50	1280	880	2,5
055265	EXTRA-N-LED-10000-236-4K	8621	66	131	40	1280	880	2,7
055266	EXTRA-N-LED-3750-258-4K	3341	25	134	45	1580	1000	2,9
055267	EXTRA-N-LED-7500-258-4K	6682	50	134	45	1580	1000	2,8
055268	EXTRA-N-LED-12550-258-4K	10790	80	135	35	1580	1000	3,2

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

EXTRA-N-LED



— C0-C180

---- C90-C270

Accessories on request

	Suspended mounting			064643 Set of wall brackets - angle 45° EXTRA (2 pcs)
	051131	Cable suspension-EXTRA-2x (3m)		
	Suspended mounting			051157 Pole bracket EXTRA (for Ø 50 mm)
	001696	Wire suspension EXTRA (Chain not included)		
	zpswc10	Zinc plated steel welded chain Inside link dim.: 13 x 4mm dia.1.6mm, 10m bag Max. load: 15kg		001748 LAK Protective cage EXTRA 18W 001749 LAK Protective cage EXTRA 36W 001750 LAK Protective cage EXTRA 58W
	zpsml10	Zinc plated steel mending link Inside link dim.: 22 x 7mm dia.3.5mm, 10 per bag Max. load: 85kg		
	zpsch10	Zinc plated steel ess hook Length: 34mm Inside eye dim.: 11mm dia.3.0mm, 10 per bag		

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) connection,

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

maximum diameter of wires 2.5 mm²

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F	EM	
055260	055270	055276	055460	055260 1F	055260 3F	055282	EXTRA-N-LED-Em-500-218-4K
055261	055271	055277	055461	055261 1F	055261 3F	055283	EXTRA-N-LED-Em-500-236-4K
055262	X	X	055462	055262 1F	055262 3F	055284	EXTRA-N-LED-Em-500-258-4K
055263	055272	055278	055463	055263 1F	055263 3F	055285	EXTRA-N-LED-Em-500-218-4K
055264	055273	055279	055296	055264 1F	055264 3F	055286	EXTRA-N-LED-Em-500-236-4K
055265	X	X	055464	055265 1F	055265 3F	055287	EXTRA-N-LED-Em-500-258-4K
055266	055274	055280	055465	055266 1F	055266 3F		
055267	055275	055281	055249	055267 1F	055267 3F		
055268	055288*	055289*	055269	055268 1F	055268 3F		

MULTIEXTRA-N-LED-10600-258-4K - max. ta 30°C

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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EXTRA-LED

IP 66

5 year warranty



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.

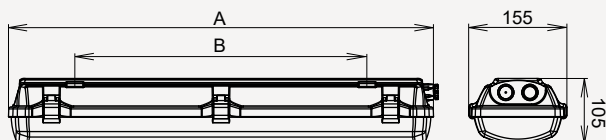
Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm².

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

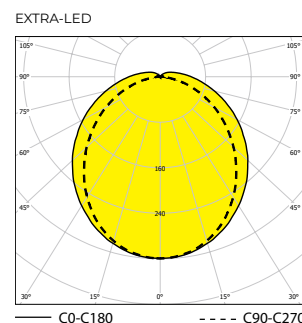
L70B10 ta30 – 100 000h



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)

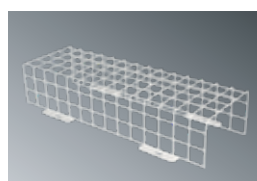


Suspended mounting

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	055228 1F	055228 3F	055239	055228 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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RAMBO-Ex-LED

IP 66 / IP 67 / zone 1, 21

5 year warranty



FTZÚ 17 ATEX 0053X



Application: Dustproof and waterproof LED luminaire series RAMBO-Ex-LED with resistance against of damage and splashing water is designed for lighting areas with danger of explosion. Light fixture is certified by FTZÚ Ostrava-Radvanice (certificate FTZÚ 17 ATEX 0053X).

Ballast: Electronic 110-254 V, 50-60 Hz AC, 220-250 V, 0 Hz DC

Light source: LED, 4000K, CRI +80

Body: White painted metal sheet RAL9003; plastic end caps made from PC (polycarbonate)

Cover: Plastic tube with outer diameter of 70 mm and wall thickness of 4 mm made from **PC-IK10** (polycarbonate), transparent colour

Fastening: Direct fastening on ceiling or wall

Connection: Screwless three-pole terminal block, max. cross section of wires 4,0 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

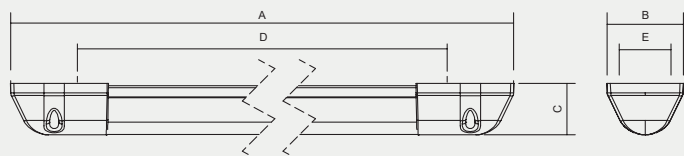
⊕ II 2G Ex db eb mb op is IIC T4 Gb

⊕ II 2D Ex tb op is IIIC T59°C Db

RAMBO-Ex-LED-WOD

⊕ II 2G Ex eb mb op is IIC T4 Gb

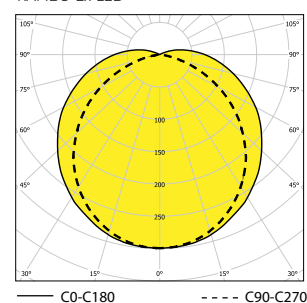
⊕ II 2D Ex tb op is IIIC T59°C Db



Standard order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	System efficiency (lm/W)	Ta max (°C)	Lighting fixture dimensions A x B x C (mm)	Mounting dimension D x E (mm)	Weight (kg)
084210	RAMBO-Ex-LED-D-4000-118-4K	2835	28	101	50	1318x113x76	1148x60 (Ø8)	7,6
084211	RAMBO-Ex-LED-D-8000-136-4K	5441	51	106	45	1878x113x76	1708x60 (Ø8)	11
084212	RAMBO-Ex-LED-WOD-4000-118-4K	2835	28	101	50	1318x113x76	1148x60 (Ø8)	7,6
084213	RAMBO-Ex-LED-WOD-8000-136-4K	5441	51	106	45	1878x113x76	1708x60 (Ø8)	11

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

RAMBO-Ex-LED

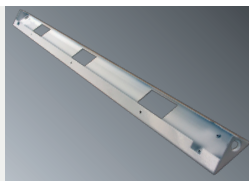


SAFE answers to HAZARDOUS questions

Accessories on request



008096	Cable gland plastic Ex M20x1,5
008097	Plastic nut WISKA EMUG 20 M20x1,5
008090	Ex plastic sealing plug M20x1,5
007047N	Flat sealing ring EPDM 27x18,5x1,5mm



Order number on request Set for corner installation 30°

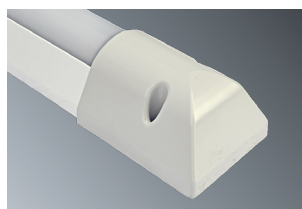


002020 RAMBO special key



004569 RAMBO safety screw 6x10

Lighting fixture detail



System of marking

RAMBO-Ex-LED-D-XXXX-YYY	with disconnecter
RAMBO-Ex-LED-WOD-XXXX-YYY	without disconnecter
XXXX*	luminous flux value (lm) 4000/8000
YYY*	type of housing 118/136

On request

3000/4000/6000K - colour temperature

1F - one phase through wiring connection, max. cross section of wires 4,0 mm²

RAL – another paint colour design

NEREZ – body from stainless steel sheet AISI 304 nebo AISI 316
(at stainless steel design is ambient temperature lower about 5-10°C)

Standard order number	EM-1H	EM-3H	MULTI-1H	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

Danger of explosion of flammable dusts
Danger of explosion of flammable gases and vapours

Marking of external influences

BE3N1
BE3N2

Area classification

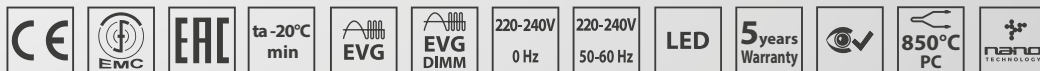
Marking	Directive
ZONE 21,22	ČSN EN 60079-14, ČSN EN 60079-10-2
ZONE 1,2	ČSN EN 60079-14, ČSN EN 60079-10-1



RAMBO-LED-FL

IP66/IP67/IP69K, IP42

5 year warranty



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

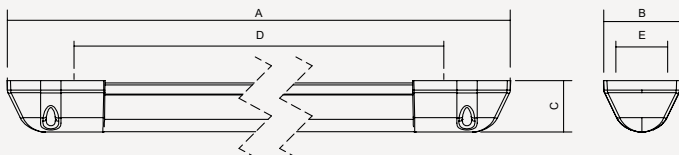
Connection: Screw connector terminal block, maximum diameter of wires 2.5 mm²

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:

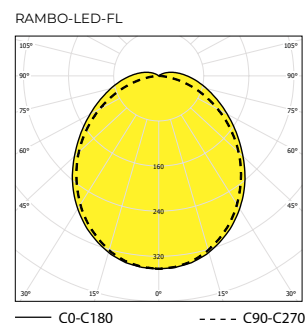
L80B10 ta30 – 70 000h

L70B10 ta30 – 100 000h



Order number	Name	Lighting fixture luminous flux (lm)	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/IP69K								
084085	RAMBO-LED-FL-2500-4K, l=955 mm	1929	17	113	30	955x112x76	779x60 (Ø8)	5,3
084086	RAMBO-LED-FL-5000-4K, l= 1445 mm	3858	33	117	30	1445x112x76	1276x60 (Ø8)	7,5
084087	RAMBO-LED-FL-7500-4K, l= 1910 mm	5787	50	116	30	1910x112x76	1742x60 (Ø8)	8,8
IP42								
084220	RAMBO-LED-FL-2500-4K, l=955 mm	1929	17	113	30	955x112x76	779x60 (Ø8)	5,3
084221	RAMBO-LED-FL-5000-4K, l= 1445 mm	3858	33	117	30	1445x112x76	1276x60 (Ø8)	7,5
084222	RAMBO-LED-FL-7500-4K, l= 1910 mm	5787	50	116	30	1910x112x76	1742x60 (Ø8)	8,8

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



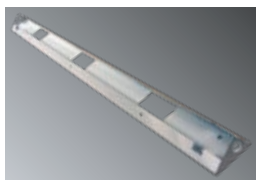
Accessories on request



004569 Screw with special head



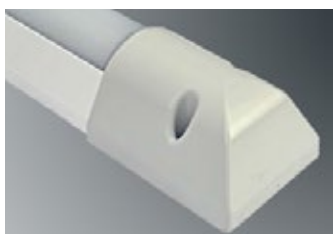
002020 Spanner for mounting and dismantling special screw



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

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

MW SENSOR - microwave sensor (in case of requirement for 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)

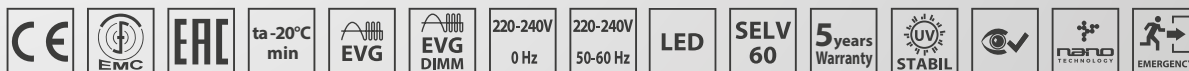
Stadard order number	EM-1,5H	EM-3H	MULTI-1,5H	MULTI-3H	DALI	1F	3F
IP66/IP67							
084085	X	X	084060	084063	084066	084085 1F	084085 3F
084086	X	X	084061	084064	084067	084086 1F	084086 3F
084087	X	X	084062	084065	084068	084087 1F	084087 3F
IP42							
084220	X	X	084223	084226	084229	084220 1F	084220 3F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



GALGO-LED

IP 65

5 year warranty



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

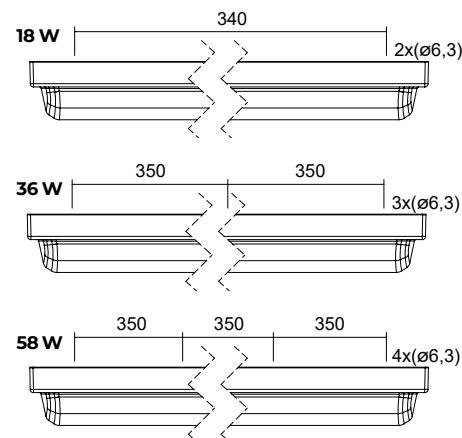
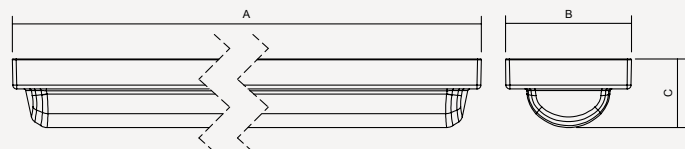
Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm². The lighting fixture is prepared for loop-in (possibility of connection of two cables)

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:

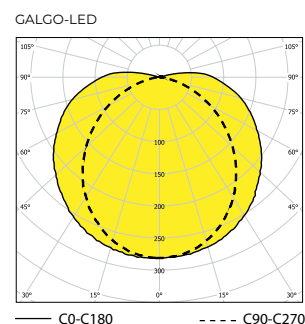
L80B10 ta30 – 70 000h

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)
051770	GALGO-LED-1250-118-4K	1110	8	139	40	690x194x108	6,3
051771	GALGO-LED-2500-218-4K	2220	16	139	40	690x194x108	5,5
051772	GALGO-LED-5000-218-4K	4650	33	141	40	690x194x108	6,3
051773	GALGO-LED-2500-136-4K	2271	17	134	60	1300x194x108	11
051774	GALGO-LED-5000-236-4K	4542	33	138	60	1300x194x108	11
051775	GALGO-LED-10000-236-4K	9300	66	141	40	1300x194x108	11
051776	GALGO-LED-3750-158-4K	3406	25	136	50	1600x194x108	13
051777	GALGO-LED-7500-258-4K	6813	50	136	50	1600x194x108	13
051778	GALGO-LED-12550-258-4K	11639	80	145	40	1600x194x108	13

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



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

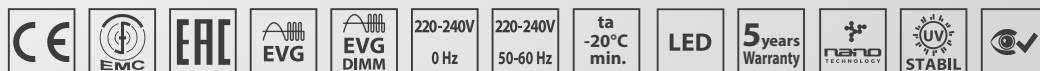
Stadard order number	EM-1H	EM-3H	MULTI-1H	MULTI-3H	DALI	1F	3F
051770	X	X	051790	X	051770 DALI	X	X
051771	X	X	051780	X	051771 DALI	X	X
051772	X	X	X	X	051772 DALI	X	X
051773	X	X	051791	051793	051773 DALI	X	X
051774	X	X	051781	051784	051774 DALI	X	X
051775	X	X	X	X	051775 DALI	X	X
051776	X	X	051792	051794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



BOXER-LED

IP 65

5 year warranty



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

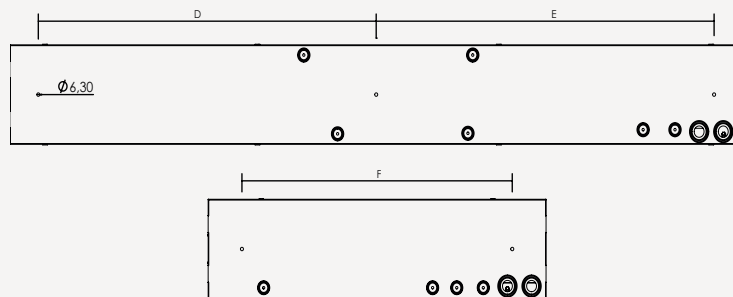
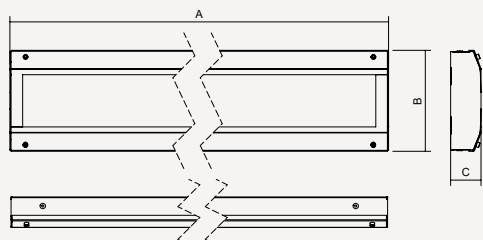
Reflector: Highly polished aluminium sheet

Fastening: Surface wall or ceiling mounting, recessed via frame for recessed installation or cornerr 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)

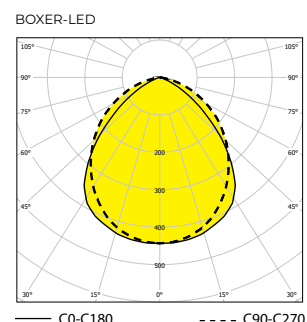
Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

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

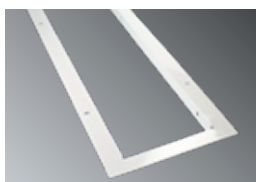


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing Dx E/F (mm)	Weight (kg)
053495	BOXER-LED-1450-4K	1064	8	133	30	420x184x56	320	2,8
053489	BOXER-LED-1650-4K	1339	11	122	30	420x184x56	320	2,8
053494	BOXER-LED-2900-4K	2268	18	126	30	700x184x56	560	4,7
053491	BOXER-LED-3300-4K	2679	22	122	30	700x184x56	560	4,7
053497	BOXER-LED-5800-4K	4537	36	126	30	1257x184x56	550x550	7
053487	BOXER-LED-6600-4K	5089	41	124	30	1257x184x56	550x550	7
053499	BOXER-LED-7200-4K	6020	48	125	30	1537x184x56	700x700	9
053485	BOXER-LED-8200-4K	6361	51	125	30	1537x184x56	700x700	9

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



Accessories on request



053412	Recessed frame BOXER-LED 10W, 13W (420 mm)
053413	Recessed frame BOXER-LED 21W, 25W (700 mm)
053414	Recessed frame BOXER-LED 42W, 50W (1257 mm)
053415	Recessed frame BOXER-LED 43W, 63W (1537 mm)



053416	Set for corner installation BOXER-LED 10W, 13W (420 mm)
053417	Set for corner installation BOXER-LED 21W, 25W (700 mm)
053418	Set for corner installation BOXER-LED 42W, 50W (1257 mm)
053419	Set for corner installation BOXER-LED 43W, 63W (1537 mm)

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

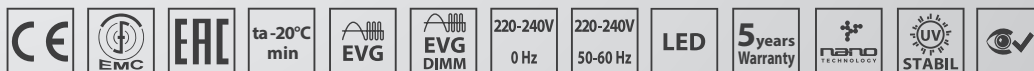


CLUMBER-LED

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

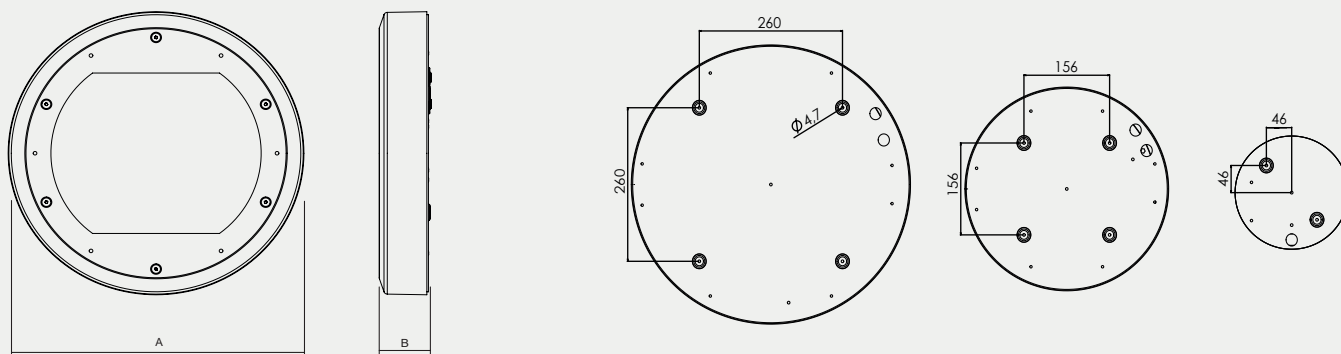
Reflector: Highly polished aluminium sheet

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)

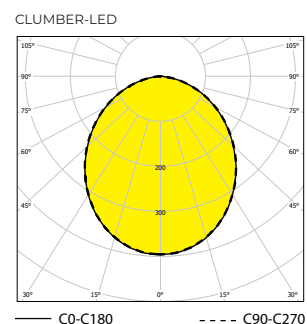
Standard equipment: 2 pcs cable gland, washers with rubber to seal mounting holes, safety screws (it is necessary to order additionally 004778 - Bit for safety screw with socket head and pin s=3)

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

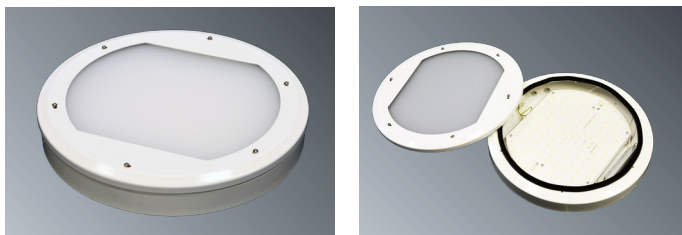


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B (mm)	Weight (kg)
053550	CLUMBER1-LED-OP-4500-4K	3276	29	113	30	505x63	7,5
053551	CLUMBER1-LED-OP-3900-4K	2842	25	114	30	505x63	7,5
053552	CLUMBER1-LED-OP-5100-4K	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

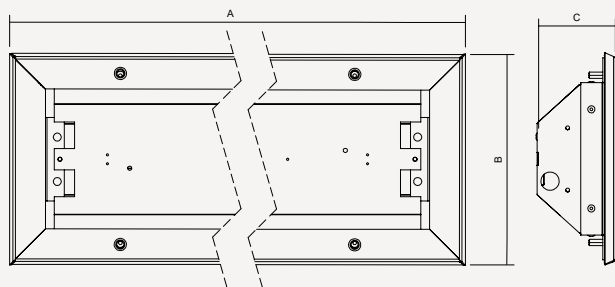
Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

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

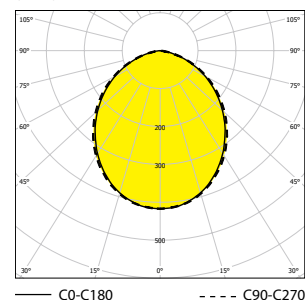
L70B10 ta30 – 100 000h



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%

STAFORD-LED



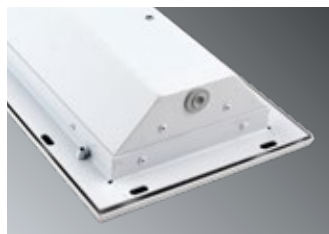
Accessories on request



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)

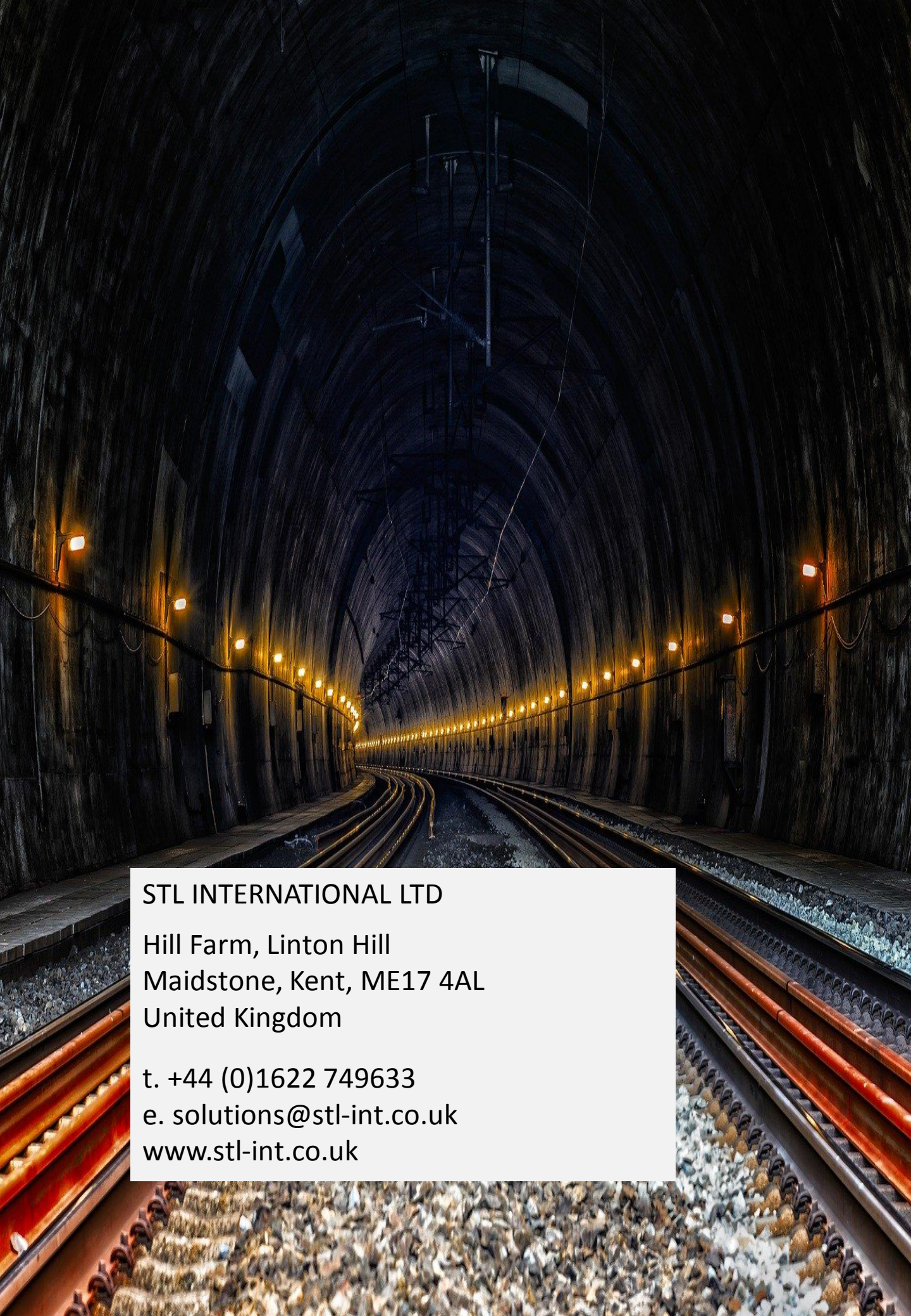
NIGHT LIGHT - equipped with 4-8W LED source for night-time lighting 3K or 4K

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







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