



NAVY SHIPS
LED LIGHT FIXTURES

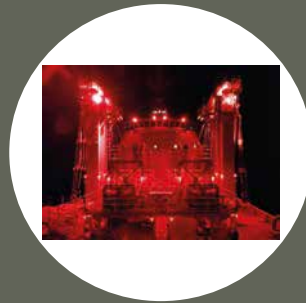
INNOVATIVE
AND FUTURE PROOF

HIGH-END NAVAL LED LIGHTING SOLUTIONS

Taylor made fixtures for every vessel



Technical indoor & outdoor



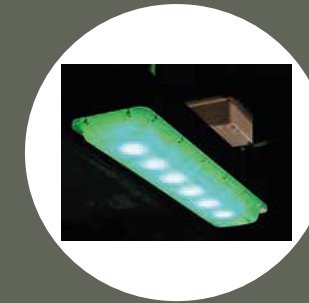
RAS Replenishment At Sea



RCS Reduced Cross Section - low radarability



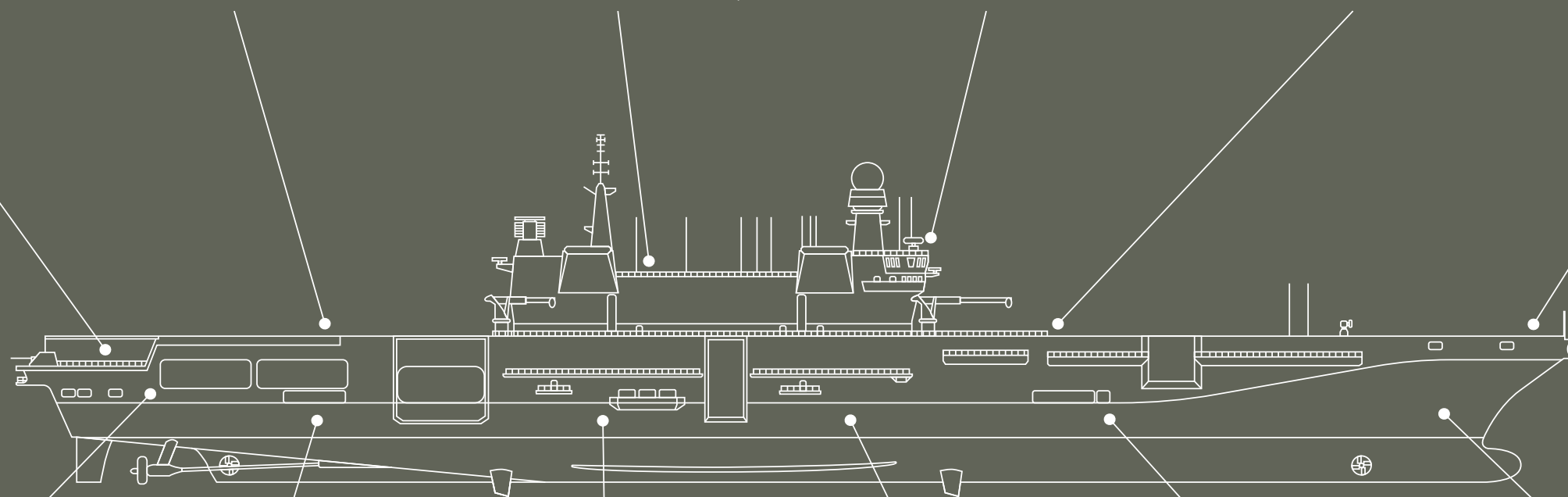
Floodlight



NVG compatible



De - Icing outdoor



Portable or fixed emergency battery



EX Explosion Proof



Living quarters



Hospital



Galley - Cold room - NBCR

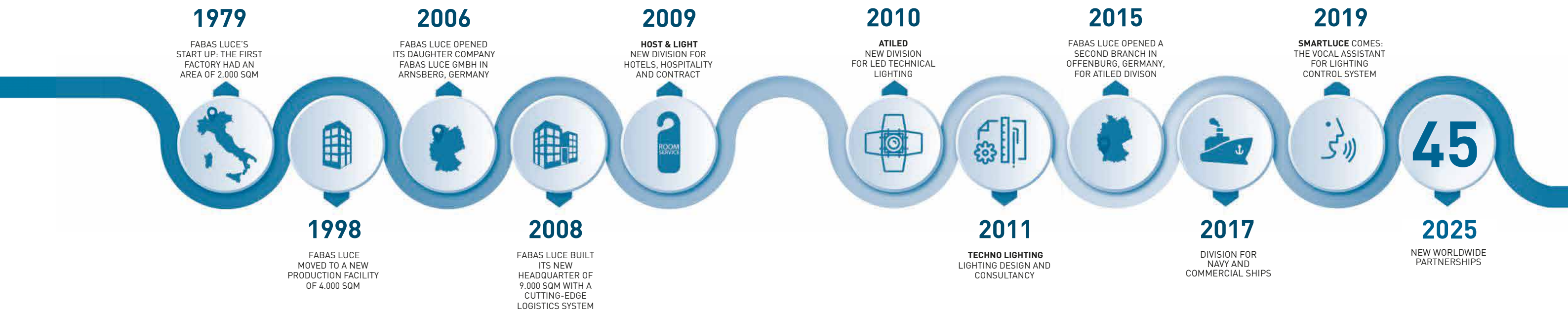


LCS Lighting Control System

MORE THAN FORTY FIVE YEARS OF LIGHT

A STORY THAT BEGAN OVER 45 YEARS AGO.
A STORY THAT SPANS GENERATIONS. A STORY OF TRADITION AND PASSION FOR WORK THAT STARTS EARLY IN THE MORNING AND ENDS LATE AT NIGHT.
A STORY OF CREATIVE GENIUS AND INNOVATION.
A STORY THAT ALSO INVOLVES OUR CUSTOMERS, SUPPLIERS AND ALL THE PEOPLE WHO HAVE CONTRIBUTED TO MAKING FABAS LUCE GROW.

9.500 PALLETS OF ITEMS IN THE WAREHOUSE
9.000 SQ.M OF COVERED SURFACE AREA
620.000 ITEMS DELIVERED IN 2019
OLTRE 2.500 ITEMS MANAGED
50 COUNTRIES WHERE WE ARE PRESENT IN THE WORLD



NAVY SHIPS LED LIGHT FIXTURES

Fabas Luce design and carefully manufacture in Italy LED light fixtures for combatant NAVY ships:
Very complete range MIL S 901 D shock proof, well proven, powerful and reliable.

- EX LED light fixture built in Explosion proof housing.
- NVG compatible, LED color available: red, white, green, blue.
- USPHS compliant LED fixtures for galley, cold and freezer rooms, laundries, decontamination station.
- Reduced Radar Cross-Section (RCS) LED fixtures for stealth ship
- EBLAN - portable - emergency LED Battle lantern with rechargeable battery.

New LED fixtures shall be soon available, these items shall be compliant to: EMC MIL 461 G,
German BV - VG standards (forecasted for the new italian NFS submarine).

For all of our LED luminaires we ensure at least 10 years availability of compliant replaceable parts
respecting the 3F criteria = Fit - Form - Function.

The most common LED light fixtures are usually available in stock for quick delivery





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www.naval.fabasluce.it

Refer to our website <https://naval.fabasluce.it/en/navy-coast-guard> for updated LED lighting fixtures data sheets.
All the product images in this brochure are for illustration purposes only, actual product may vary.

TVE INDOOR

Multipurpose LED light fixture for Interior ship spaces, compact and powerful.
Many variants already available for different tasks.



Optic diffused beam
180°

Diffuser anti glare opal polycarbonate
Flame rating V-0 (UL 94 test), UV resistant

Color Rendering Index
CRI >85

Photobiological risk group
RG0

Driver
Inside the fixture.

Wiring
Through wiring with junction boxes on the fixture.

Power factor
>0,9

Insulation Class
Class 1

IP Rate
IP 66/67

Housing
Made of marine grade copper free aluminum, inox bolts

Fixing
Stainless steel brackets AISI 316L

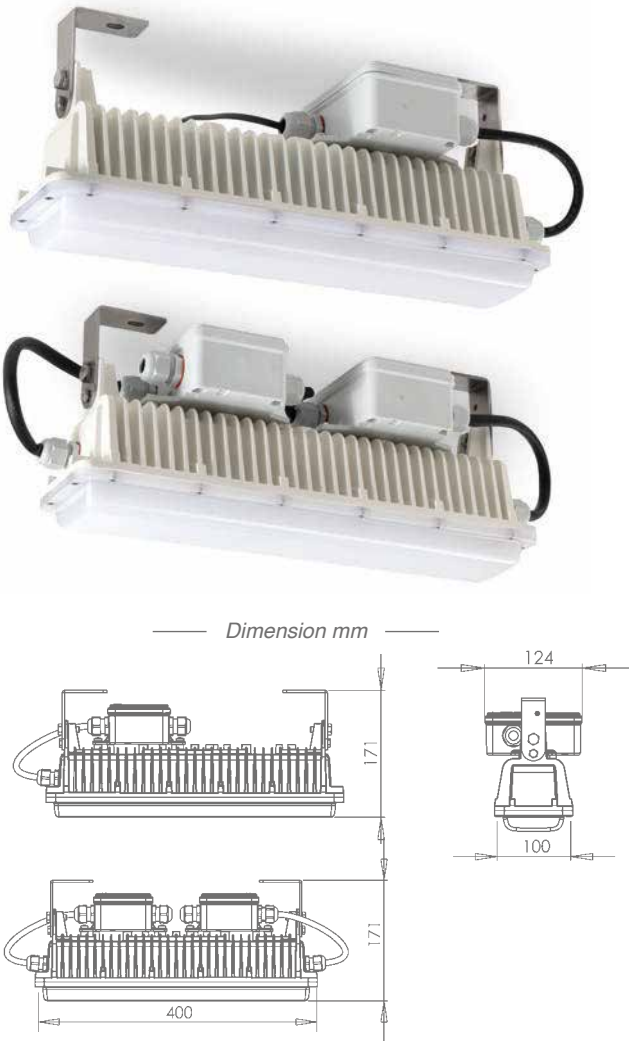
Net Weight
2,5 Kg

Lifetime
100.000 hours

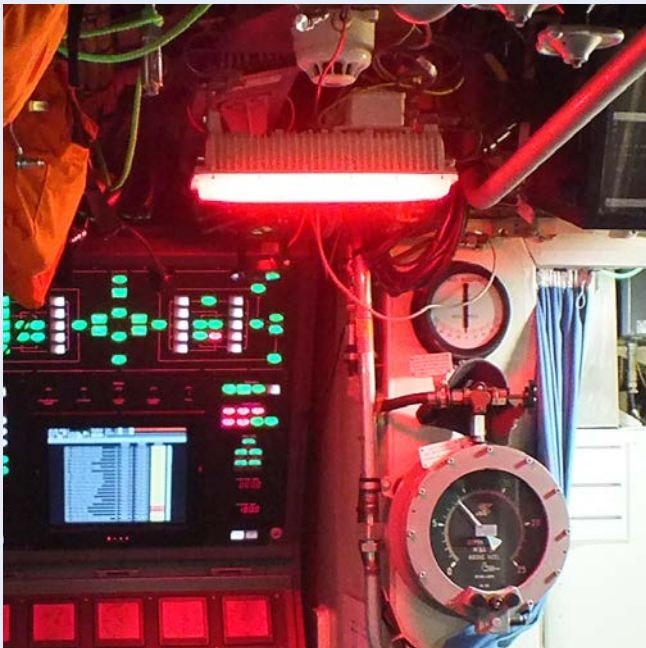
International Standards, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1; Lloyd's Register type approval

Peculiar features
Many independent lights combinations in the same housing

Optional: Emergency battery back up
1-3 HR



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010	On/Off	6.500K	From 300 to 3.250
24V DC		Grey RAL 7040	On/Off light color selection rotatory switch on fixture	4000K	
		Blue RAL 5011		3000K	
		DALI Dim. 0-100 remote control	Dim. 10-100 with potentiometer on fixture	Red	
				Blue	
		Secondary light			
			LED light color	Lumen	
			4000K	From 40 to 600	
			Red		
			Blue		

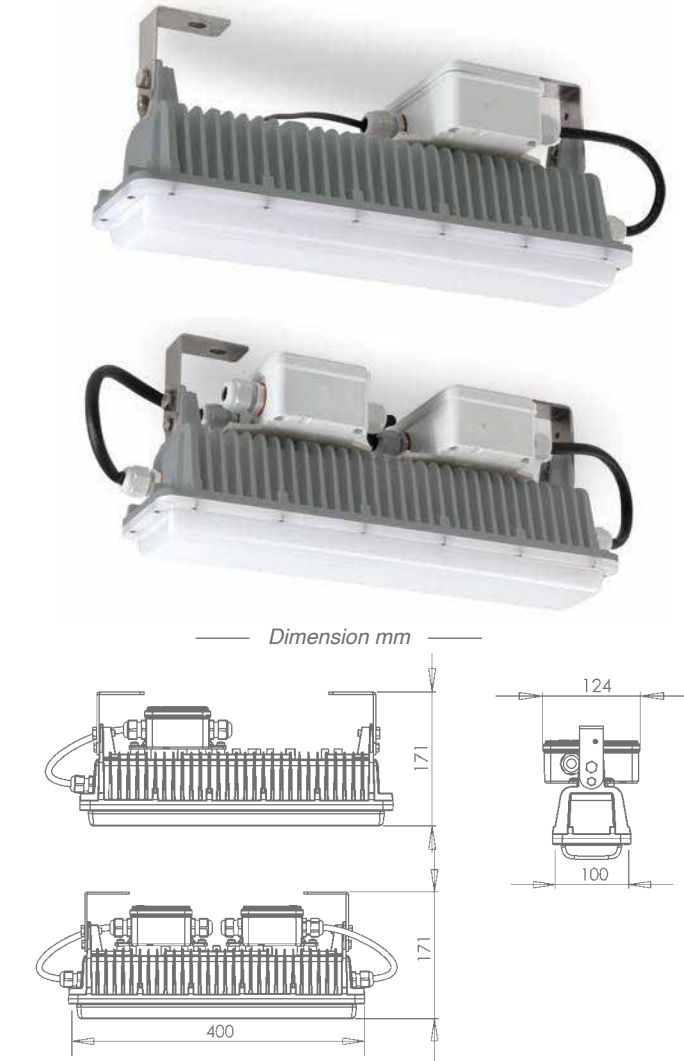


TVE OUTDOOR

Multipurpose LED light fixture for Exterior ship spaces, compact and powerful
Many variants already available for different tasks.



- Optic diffused beam**
180°
- Diffuser anti glare opal polycarbonate**
Flame rating V-0 (UL 94 test), UV resistant
- Color Rendering Index**
CRI >85
- Photobiological risk group**
RG0
- Driver**
Inside the fixture.
- Wiring**
Through wiring with junction boxes on the fixture.
- Power factor**
>0,9
- Insulation Class**
Class 1
- IP Rate**
IP 66/67
- Housing**
Made of marine grade copper free aluminum, inox bolts
- Fixing**
Stainless steel brackets AISI 316L
- Net Weight**
2,5 Kg
- Lifetime**
100.000 hours
- International Standards, compliance where applicable**
IEC 60092-306; IEC 60533; EN 60598-1; Lloyd's Register type approval
- Peculiar features**
TVE for outside deck is equipped with anti-condensation valve for air recirculation
- Optional: Emergency battery back up**
1-3 HR



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010	On/Off	6.500K	From 300 to 3.250
24V DC		Grey RAL 7040	On/Off light color selection rotatory switch on fixture	4000K	
		Blue RAL 5011		3000K	
			Dim. 10-100 with potentiometer on fixture	Red	
			Blue		
		DALI Dim. 0-100 remote control	Secondary light		
			LED light color	Lumen	
			4000K	From 40 to 600	
			Red		
			Blue		

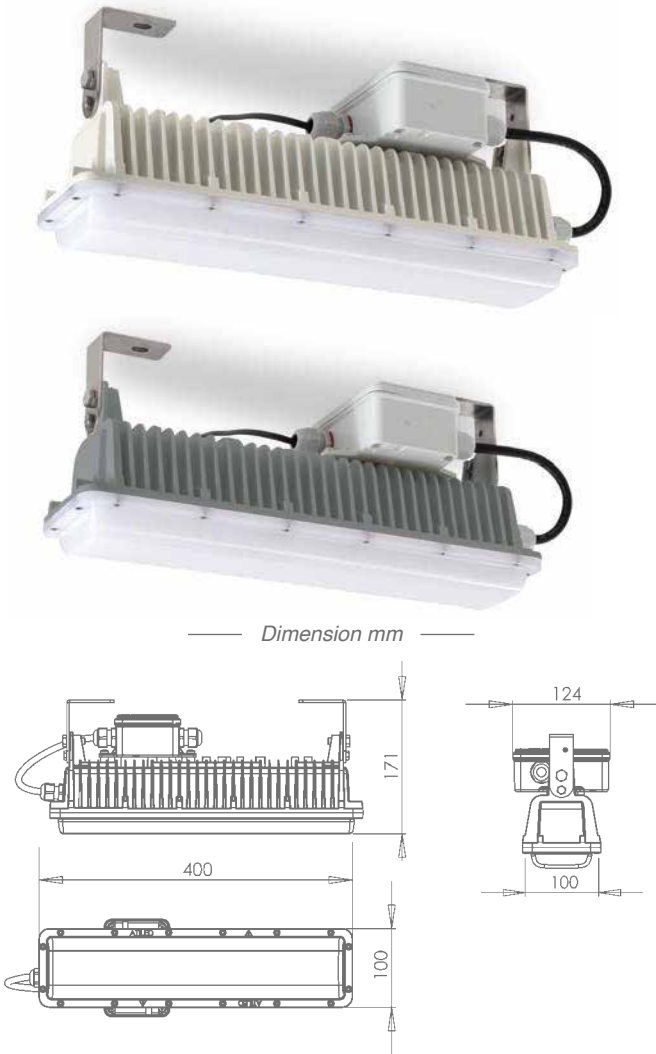


TVE NVG

NVG COMPATIBLE LED light fixture for indoor and open decks
Compliant to “Stage 3 NVD compatible” of “NATO standard
MPP-02 for NVG Night Vision Goggles
NVD Night Vision Device
NVIS Night Vision Imaging System
Luminous flux direct from LED (no use of any filter)



- Optic diffused beam**
180°
- Diffuser anti glare opal polycarbonate**
Opal polycarbonate
- Color Rendering Index**
CRI >85
- Photobiological risk group**
RG0
- Driver**
Inside the fixture.
- Wiring**
Through wiring with junction boxes on the fixture.
- Power factor**
>0,9
- Insulation Class**
Class 1
- IP Rate**
IP 66/67
- Housing**
Orientable made of marine grade copper free aluminum, inox bolts
- Fixing**
Stainless steel brackets AISI 316
- Net Weight**
2,5 Kg
- Lifetime**
100.000 hours
- International Standards, compliance where applicable**
IEC 60092-306; IEC 60533; EN 60598-1 - Lloyd's Register type approval
- Peculiar features**
TVE for outside deck is equipped with anti-condensation valve for air recirculation
- Optional: Emergency battery back up**
1-3 HR



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010	On/Off	Blue NVG	Min 220 Max 1.084
		Grey RAL 7040	Dim. with potentiometer on fixture	Red NVG	
		Blue RAL 5011	DALI Dim. 0-100 remote controle	White NVG	
				Green NVG	



TGL

POWERFUL AND COMPACT GENERAL
PURPOSE LED LIGHT FIXTURE
Suitable for high ceiling spaces, engine rooms
and outside areas.

Optic diffused beam
180°

Diffuser anti glare opal polycarbonate
Opal polycarbonate

Color Rendering Index
CRI >85

Photobiological risk group
RG0

Driver
Inside the fixture

Wiring
Through wiring with junction boxes on the fixture.

Power factor
>0,9

Insulation Class
Class 1

IP Rate
IP 66/67

Housing
Orientable made of marine grade copper free aluminum, inox bolts

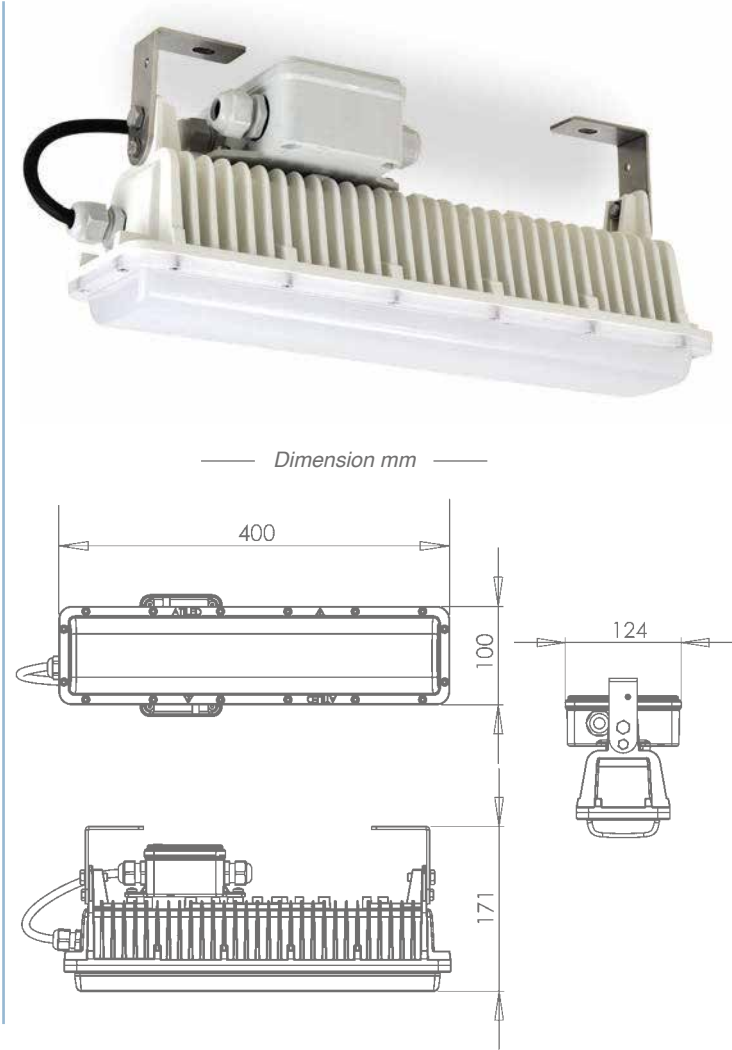
Fixing
Stainless steel brackets AISI 316

Net Weight
2,5 Kg

Lifetime
100.000 hours

International Standards, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1

Peculiar features
TGL for outside deck is equipped with anti-condensation valve for air
recirculation



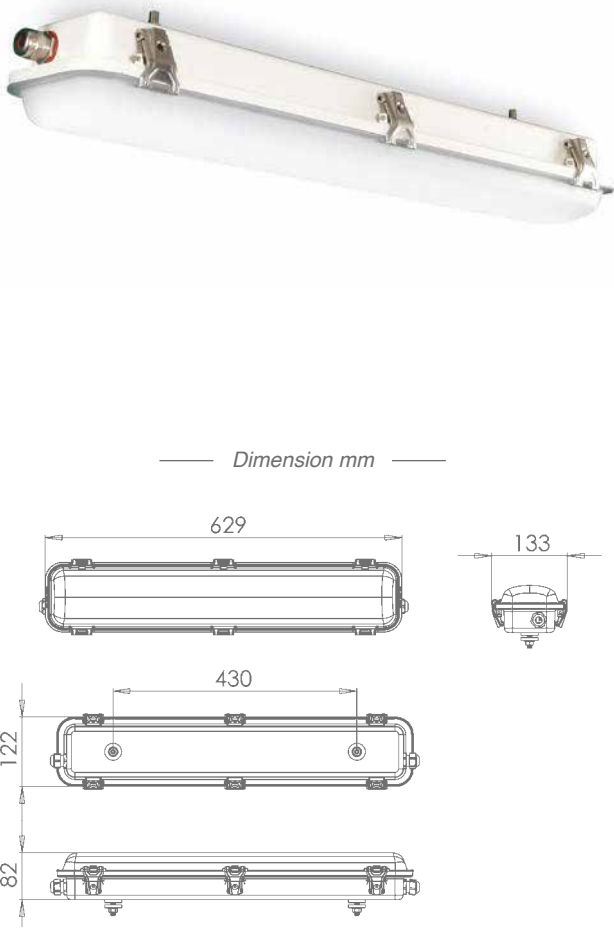
Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010	On/Off	4000K	5.400
		Grey RAL 7040		6500K	



STARFIX 600

COMPACT POWERFUL LED LIGHT FIXTURE
INDOOR OUTDOOR AND OPEN DECKS

- Housing material**
Pre-hot dip galvanized steel or stainless steel AISI 316L
- Optic diffused beam**
180°
- Diffuser anti glare opal polycarbonate**
Flame rating V-0 (UL 94 test), UV resistant
- Color Rendering Index**
CRI 90 (min.) 92 (typ.)
- Photobiological risk group**
RG0
- Driver**
Inside the fixture.
- Wiring**
Through wiring.
- Power factor**
>0,95
- Insulation Class**
Class 1
- IP Rate**
IP 66/67
- Mounting**
M8 treaded pin whit nut on preinstalled bushing all stainless steel AISI 316L
- Net Weight**
2,5 Kg
- Lifetime**
100.000 hours
- International Standars, compliance where applicable**
EN 60598-1; EN 60598-2-1; Lloyd's Register type approval; EN 62471 + TR62778; EN IEC 63000 2018
- Optional: Emergency battery back up**
1-3 HR



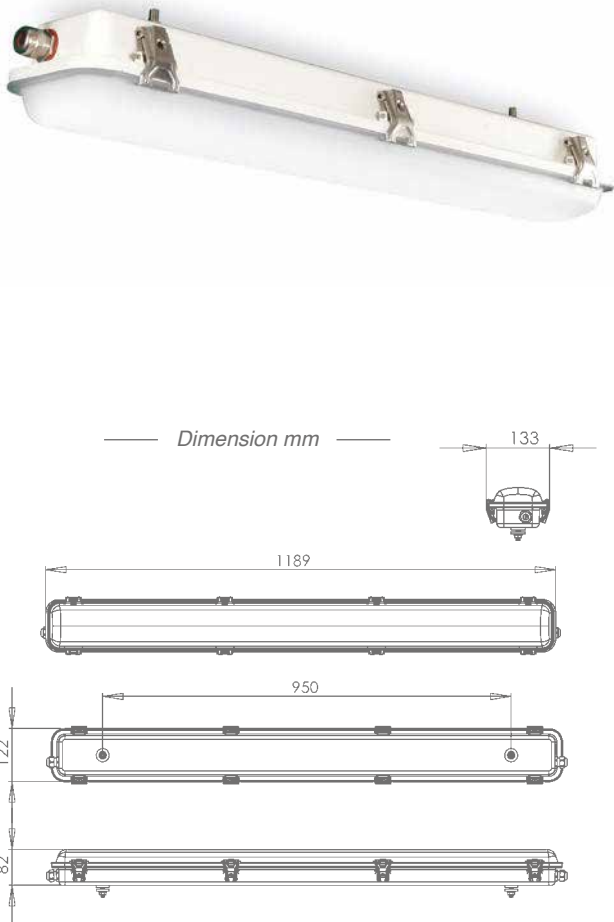
Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
120/277 V AC 50/60Hz	-40° / + 55°C	White RAL 9016	On/Off	4000K	Min 3.065 Max 5.622



STARFIX 1200

POWERFUL LED LIGHT FIXTURE
INDOOR OUTDOOR AND OPEN DECKS

- Housing material**
Pre-hot dip galvanized steel or stainless steel AISI 316L
- Optic diffused beam**
180°
- Diffuser anti glare opal polycarbonate**
Flame rating V-0 (UL 94 test), UV resistant
- Color Rendering Index**
CRI 90 (min.) 92 (typ.)
- Photobiological risk group**
RG0
- Driver**
Inside the fixture.
- Wiring**
Through wiring.
- Power factor**
>0,95
- Insulation Class**
Class 1
- IP Rate**
IP 66/67
- Mounting**
M8 treaded pin whit nut on preinstalled bushing all stainless steel AISI 316L
- Net Weight**
2,5 Kg
- Lifetime**
100.000 hours
- International Standars, compliance where applicable**
EN 60598-1; EN 60598-2-1; Lloyd's Register type approval; EN 62471 + TR62778; EN IEC 63000 2018
- Optional: Emergency battery back up**
1-3 HR



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
120/277 V AC 50/60Hz	-40° / + 55°C	White RAL 9016	On/Off	4000K	Min 6.130 Max 12.730



GALCOR

LED LIGHT FIXTURE INOX USPHS COMPLIANT

Suitable for Galley, Cold Room, CBRN chemical, biological, radiological and nuclear decontamination stations



Optic diffused beam
180°

Diffuser anti glare opal polycarbonate
Flame rating V-0 (UL 94 test), UV resistant

Photobiological risk group
RG0

Color Rendering Index
CRI 85

Driver
Inside on the fixture

Wiring
Through wiring inside fixture

Power factor
>0,9

Insulation Class
Class 1

IP rate
IP 66/67

Housing
Stainless steel AISI 316L with anti-condensation valve for air recirculation

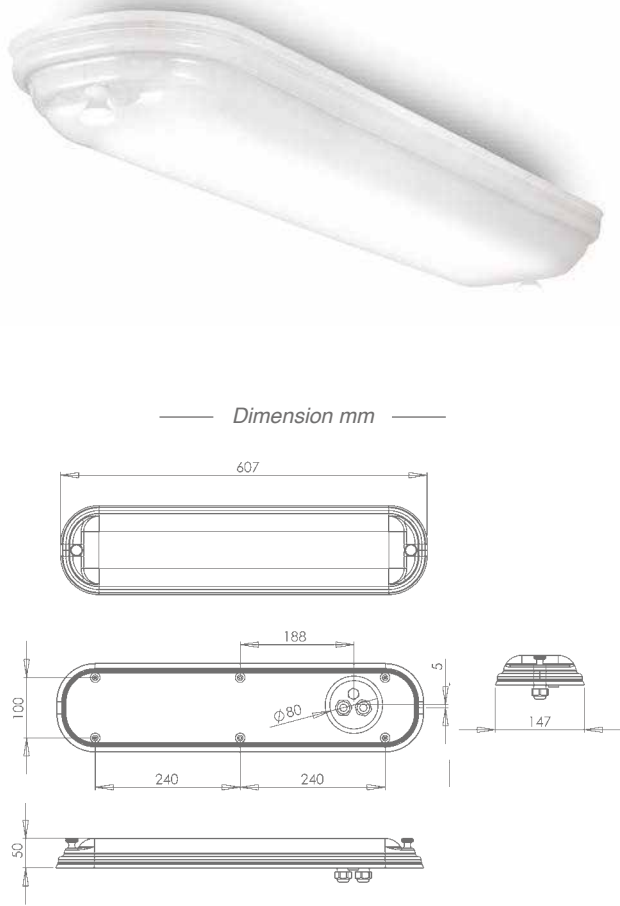
Fixing
Counter ceiling with holes for 6 screws, perimeter sealed with silicone gasket

Net Weight
2 Kg

Lifetime
100.000 hours

International Standards
USPHS compliant

Optional: Emergency battery back up
1-3 HR



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240 V AC 50/60Hz	-43° / + 45°	White Opal PC	On/Off	4000K	Min 3.992 Max 6.375
				3000K	
24V DC				Red	



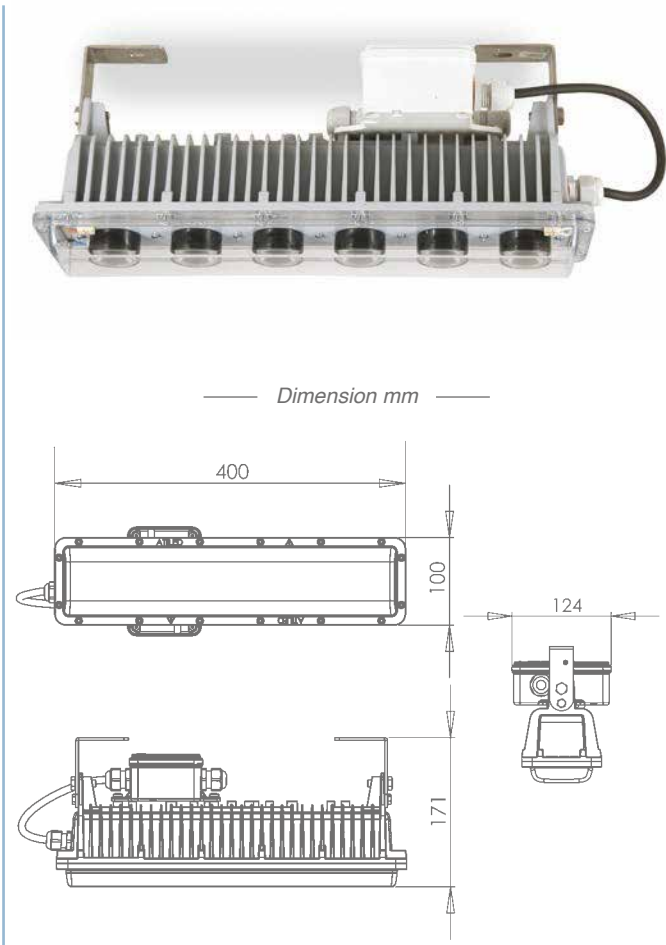
TOR 50

HIGH EFFICIENCY LED FLOOD LIGHT

Very compact and robust LED flood light
One lens for each LED assure intense and precise light beam
On request different housing color and light temperature color



- Optic**
21° 45° 65°
- Diffuser**
Clear polycarbonate
- Color Rendering Index**
CRI >70
- Driver**
Inside on the fixture
- Wiring**
Through wiring junction box in the fixture back side
- Power factor**
>0,9
- Insulation Class**
Class 1
- IP rate**
IP 66/67
- Housing**
Orientable made of marine grade copper free aluminum, inox bolts, with anti-condensation valve for air recirculation
- Fixing**
Stainless steel brackets AISI 316
- Net Weight**
2,6 Kg
- Lifetime**
100.000 hours
- International Standards, compliance where applicable**
IEC 60092-306; IEC 60533; EN 60598-1



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9016	On/Off	4000K	Min 52 Max 6.500
		Grey RAL 7040		Red	



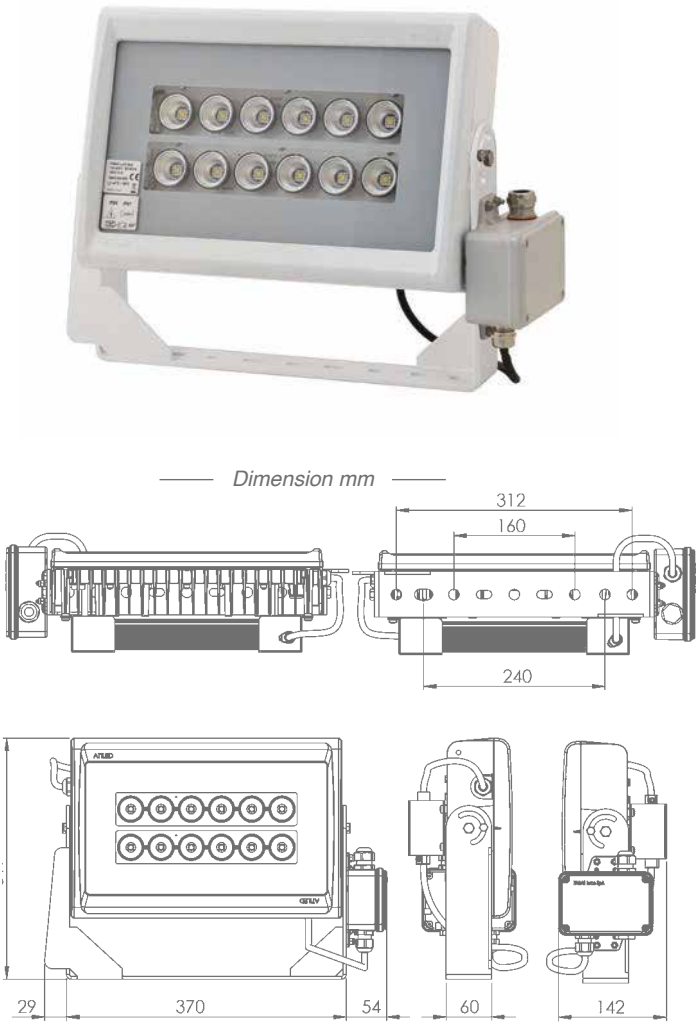
TON 100-160

HIGH EFFICIENCY LED FLOODLIGHT

Powerful, precise and robust LED flood light
Compact and low weight housing
One lens for each LED assure intense and precise light beam
On request different housing color and light temperature color



- Optic**
26° 54° 90°
- Diffuser**
Clear tempered glass
- Color Rendering Index**
CRI >70
- Driver**
With electronic power supply on the fixture
- Wiring**
Power line connection with junction box or IP68 connector
- Power factor**
>0,9
- Insulation Class**
Class 1
- IP rate**
IP 66/67
- Working ambient temperatures**
Equipped with active control of external ambient temperature
- Housing**
Orientable made of marine grade copper free aluminum grey, inox bolts, with anti-condensation valve for air recirculation
- Fixing**
Orientable stainless steel brackets AISI 316
- Net Weight**
8,5 Kg
- Lifetime**
100.000 hours
- International Standards, compliance where applicable**
IEC 60092-306; IEC 60533; EN 60598-1: Lloyd's Register type approval



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9016 Grey RAL 7040	On/Off	5700K	Min 6.250 Max 18.216
				4000K	
				3000K	
				Red	
				Green	
				Blue	



PEX

Compact EX explosion proof LED light fixture
for Gases and Dusts hazardous areas - indoor
and open decks



Optic diffused beam
120°

Diffuser
High thickness borosilicate glass

Color Rendering Index
CRI >85

Photobiological risk group
RG0

Driver
Inside the fixture.

Wiring
Two cable glands for Through wiring connections

Power factor
>0,9

Insulation Class
Class 1

IP Rate
IP 66

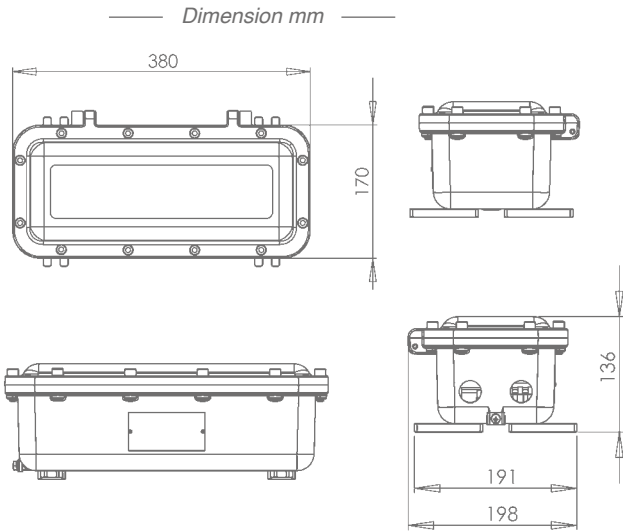
Housing
Made of marine grade copper free aluminum, inox bolts

Fixing
Aluminum brackets

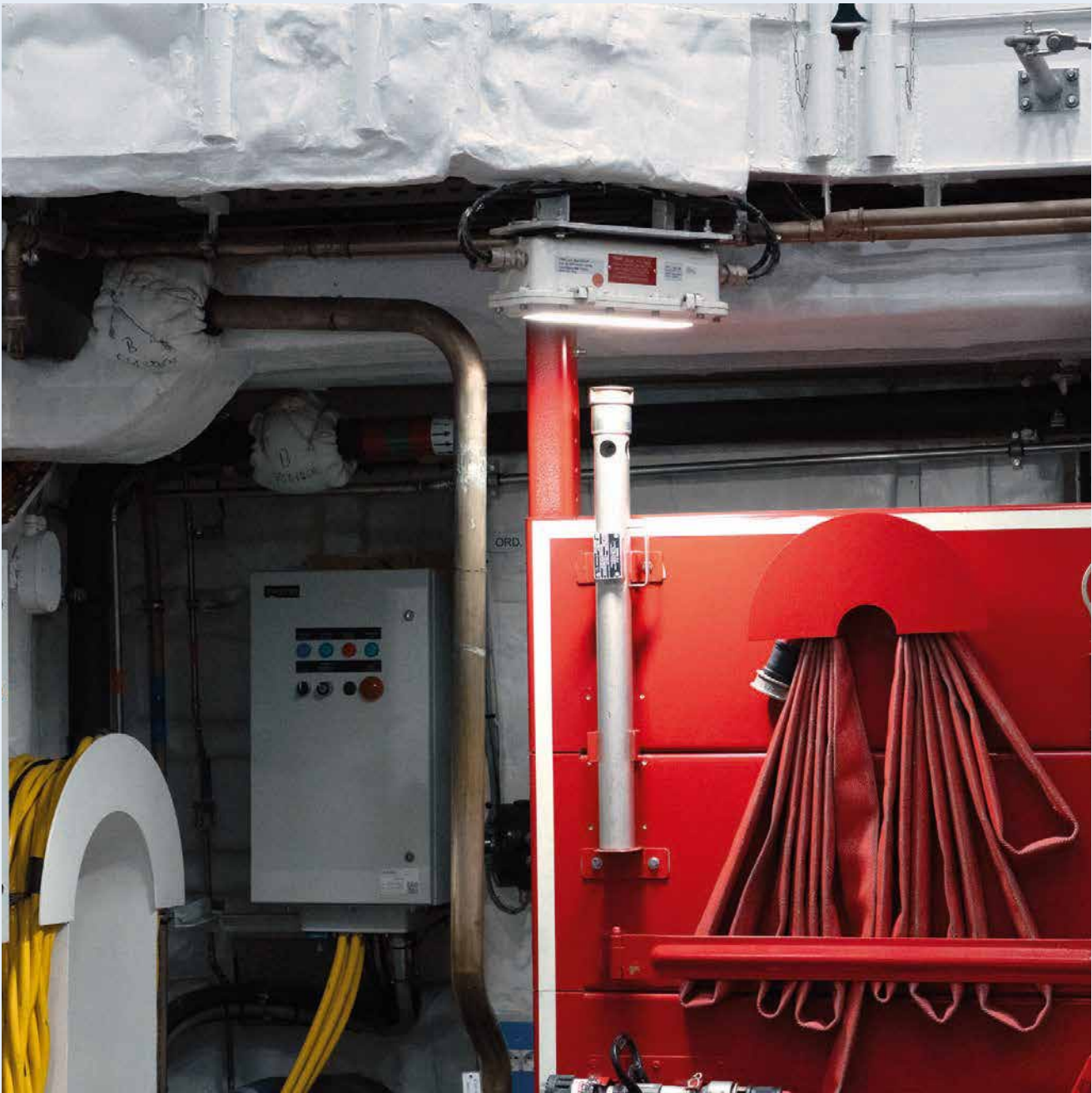
Net Weight
8 Kg

Lifetime
100.000 hours

International Standards, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1
CE INERIS 15 ATEX 0024X



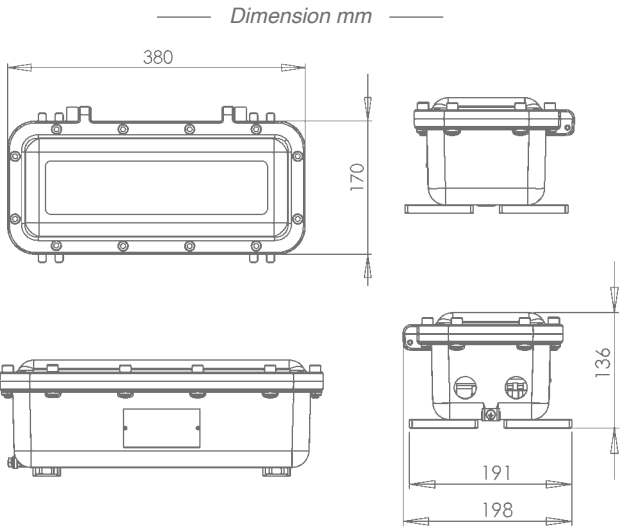
Operation Voltage	Operating ambient temp.	Housing Color	Control System	LED light color	Primary Light Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010	On/Off	4000K	Min 52 - Max 3000
24 VDC		Grey RAL 7040	DALI Dim. 0-100 remote controle	Red	
			Dim. 10-100 with potenziom. on external box	Blu	



PEX DOUBLE LIGHTS

Two independent LED lights in the same compact EX explosion proof LED light fixture for Gases and Dusts hazardous areas - indoor and open decks

- Optic diffused beam
120°
- Diffuser anti glare opal polycarbonate
High thickness borosilicate glass
- Color Rendering Index
CRI >85
- Photobiological risk group
RG0
- Driver
Inside the fixture.
- Wiring
Four cable glands for Through wiring connections
- Power factor
>0,9
- Insulation Class
Class 1
- IP Rate
IP 66
- Housing
Made of marine grade copper free aluminum, inox bolts
- Fixing
Aluminum brackets
- Net Weight
8 Kg
- Lifetime
100.000 hours
- International Standards, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1
CE INERIS 15 ATEX 0024X



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010	On/Off	4000K	Min 52 - Max 3000
		Grey RAL 7040		4000K Red	Min 52 - Max 3000



PEX NVG

EX explosion proof NVG COMPATIBLE LED light fixture for Gases and Dusts hazardous areas - indoor and open decks
Compliant to “Stage 3 NVD compatible” of “NATO standard MPP-02 for NVG Night Vision Goggles NVD Night Vision Device NVIS Night Vision Imaging System Luminous flux direct from LED (no use of any filter)



Optic diffused beam
120°

Diffuser
High thickness borosilicate glass

Color Rendering Index
CRI >85

Photobiological risk group
RG0

Driver
Inside the fixture.

Wiring
Two cable glands for Through wiring connections

Power factor
>0,9

Insulation Class
Class 1

IP Rate
IP 66

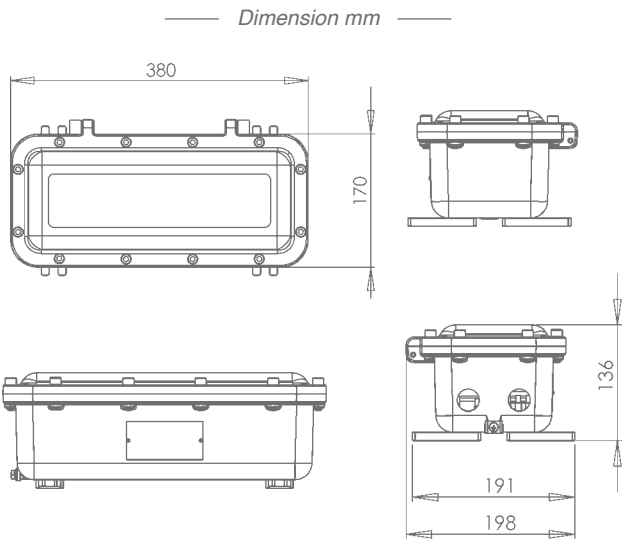
Housing
Made of marine grade copper free aluminum, inox bolts

Fixing
Aluminum brackets

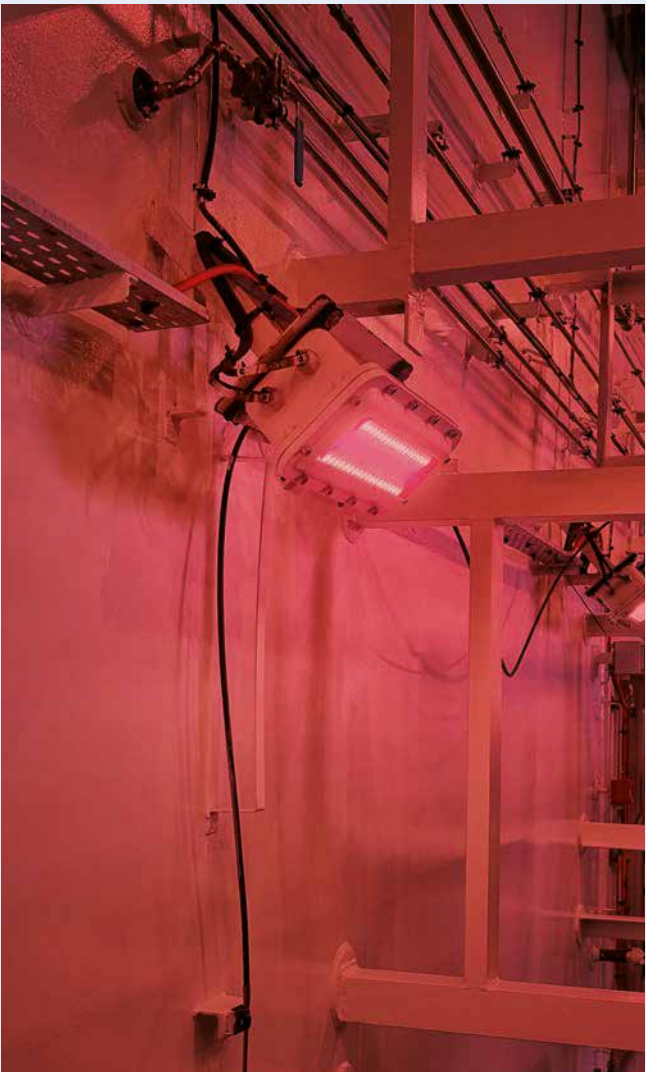
Net Weight
8 Kg

Lifetime
100.000 hours

International Standards, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1
CE INERIS 15 ATEX 0024X



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-40° / + 55°C	White RAL 9010 Gray RAL 7040	DALI Dim. 0-100 remote controle On/Off	Red NVG	Min 52 - Max 1454
				White NVG	
				Green NVG	
				Blue NVG	



GEX

Powerful EX explosion proof LED light fixture
for Gases and Dusts hazardous areas
indoor and open decks



Optic diffused beam
180°

Diffuser
High thickness borosilicate glass

Color Rendering Index
CRI >85

Photobiological risk group
RG0

Driver
Inside the fixture.

Wiring
Two cable glands for Through wiring connections

Power factor
>0,9

Insulation Class
Class 1

IP Rate
IP 66

Housing
Made of marine grade copper free aluminum, inox bolts

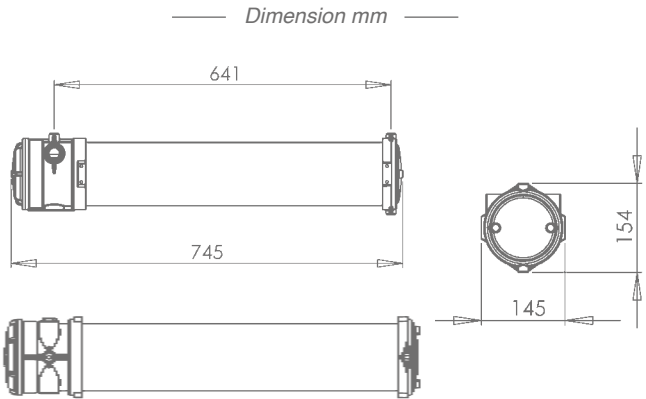
Fixing
Stainless steel brackets AISI 316L

Net Weight
8 Kg

Lifetime
100.000 hours

International Standards, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1

EX certificate
CE INERIS 12 ATEX 0023X



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-25° / + 55°C	White RAL 9010	On/Off	4000K	5.000



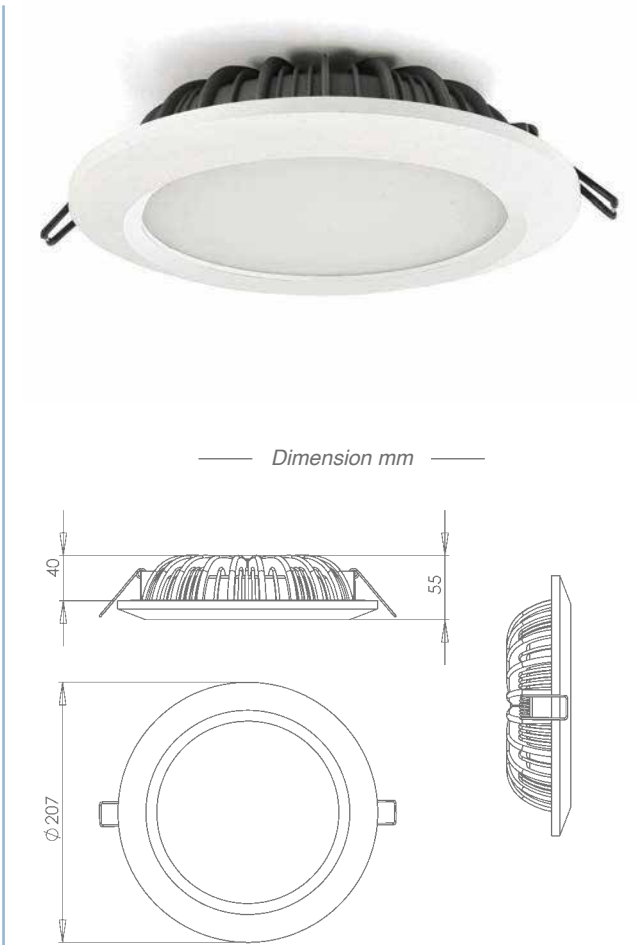
PSAR

RECESSED ROUND LED LIGHT FIXTURE

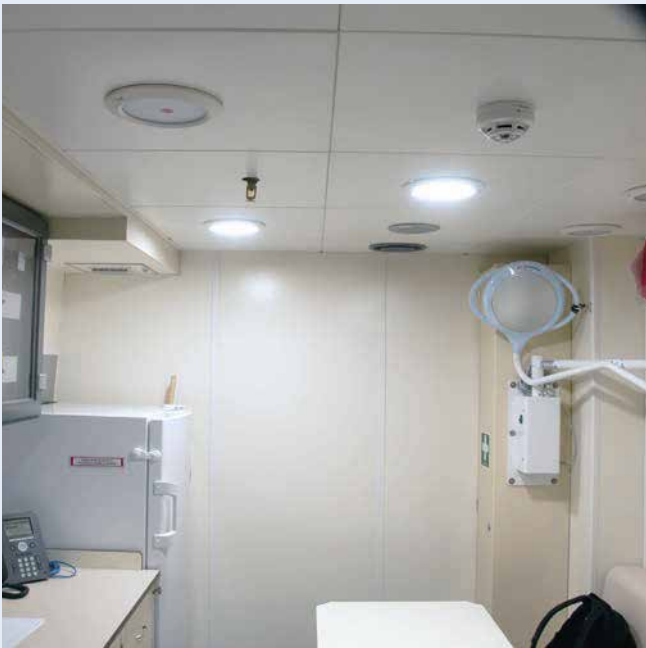
Suitable for offices, wardroom, messroom, bathrooms
Light colors available in white warm or natural, Red, Blue, Green



- Optic diffused beam
180°
- Diffuser
Opal polycarbonate
- Color Rendering Index
CRI >80
- Photobiological risk group
RG0
- Power factor
>0,5
- Electric power input
Power supply to be installed outside fixture
- Insulation Class
Class II
- IP Rate
IP 44
- Housing
Aluminum.
- Fixing
With 3 screws and / or springs
- Net Weight
0,7 Kg
- Lifetime
100.000 hours
- International Standard
EN 60598-1
- Optional: Emergency battery back up
1-3 HR



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz 24V DC	-40° / + 55°C	White	On/Off	5000K	Min 52 Max 2.780
		Blue RAL 5011	DALI e Dim. 0-100 remote controle	4000K	
				3000K	
				Red	
				Blue	
				Green	

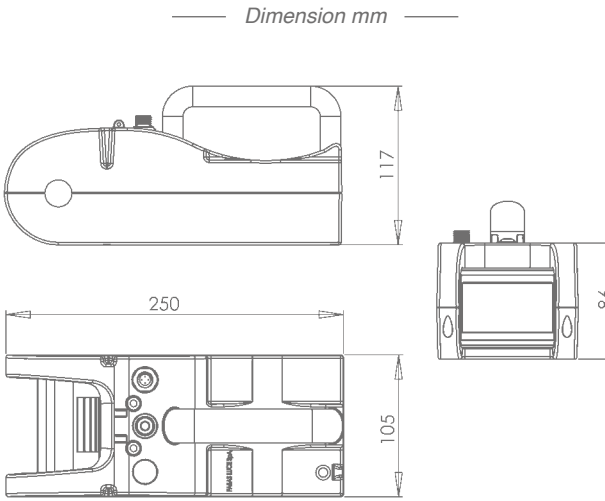


EBLAN

EMERGENCY LED BATTLE LANTERN FULLY MICROPROCESSOR
DRIVEN PORTABLE AND FLOATING IP67 WITH RECHARGEABLE
BATTERY

Two LEDs wide or narrow beam, high or low intensity white light that in case of
blackout last for 10 hours

- Color Rendering Index CRI
85
- Lifetime Light at reduced luminous flux
4,5 Hours
- Lifetime Light at luminous flux 250 lumen
10 Hours
- Battery sealed pack whit active temperature monitoring and
control
Nickel Metal Hydride
- Battery charging time from low to max level hours
8
- Battery stand by duration without power connection hours
4 / 8 weeks
- Low safe recharging power voltage V
< 20
- Insulation Class
Class III
- IP Rate
IP 67
- Working ambient temperatures
-20 / +55 °C
- Net Weight
1 Kg
- Lantern wall mounting bracket with power unit box
- Driver
100 / 240 V AC 50 / 60 Hz
- Insulation Class
Class 1
- Working ambient temperatures
-20 / +55 °C
- IP rate
67
- Net Weight
1 Kg



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240 V AC 50/60Hz	-20° / + 55°C	Red	On/Off	5700K	Max 396
24V DC				Red	
				Green	



GLO

LED globe white or colored light indoor and open decks
Models: normal or EX explosion proof for Gases
and Dusts hazardous areas



- Optic diffused beam**
360°
- Diffuser**
High thickness borosilicate glass
- Color Rendering Index**
CRI >85
- Photobiological risk group**
RG0
- Driver**
Inside the fixture
- Wiring**
Two cable glands for Through wiring connections
- Power factor**
>0,9
- Insulation Class**
Class 1
- IP rate**
IP 66
- Fixing**
Wall or ceiling bracket inox AISI 316 L
- Housing**
Die-cast marine grade copper free aluminum
- Net Weight**
3 Kg
- Lifetime**
100.000 hours
- International Standards**
IEC 60092-306; IEC 60533; EN 60598-1
- EX certificate where applicable**
CE INERIS 01 ATEX 0054X



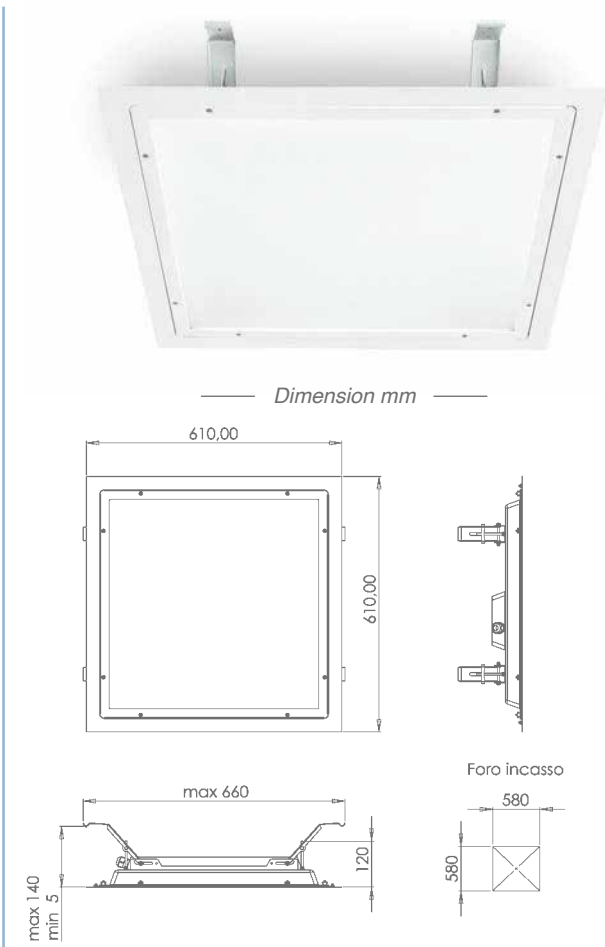
Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
100/240V AC 50/60Hz	-25° / + 55°C	Grey RAL 7040	On/Off	4000K	Min 52 Max 820
				Red	
				Green	
				Blue	
				Orange	



SKOS

HOSPITAL AREAS, SURGERY ROOMS

- Optic diffused beam
Prismatic diffuser 180° - UGR <19
- Diffuser anti glare opal polycarbonate
Flame rating V-0 (UL 94 test), UV resistant
- Color Rendering Index
CRI 90
- Photobiological risk group
RG0
- Driver
Inside the fixture.
- Power factor
>0,9
- Insulation Class
Class 1
- IP Rate
IP 65 - Front and rear
- Housing
Metal frame - White RAL 9003
- Net Weight
7 Kg
- Lifetime
100.000 hours
- International Standars, compliance where applicable
IEC 60092-306; IEC 60533; EN 60598-1



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
220/240 V AC 50/60Hz	-20° / + 55°C	White RAL 9003	On/Off DALI	4000K	Min 4.222 Max 5.861



GEST

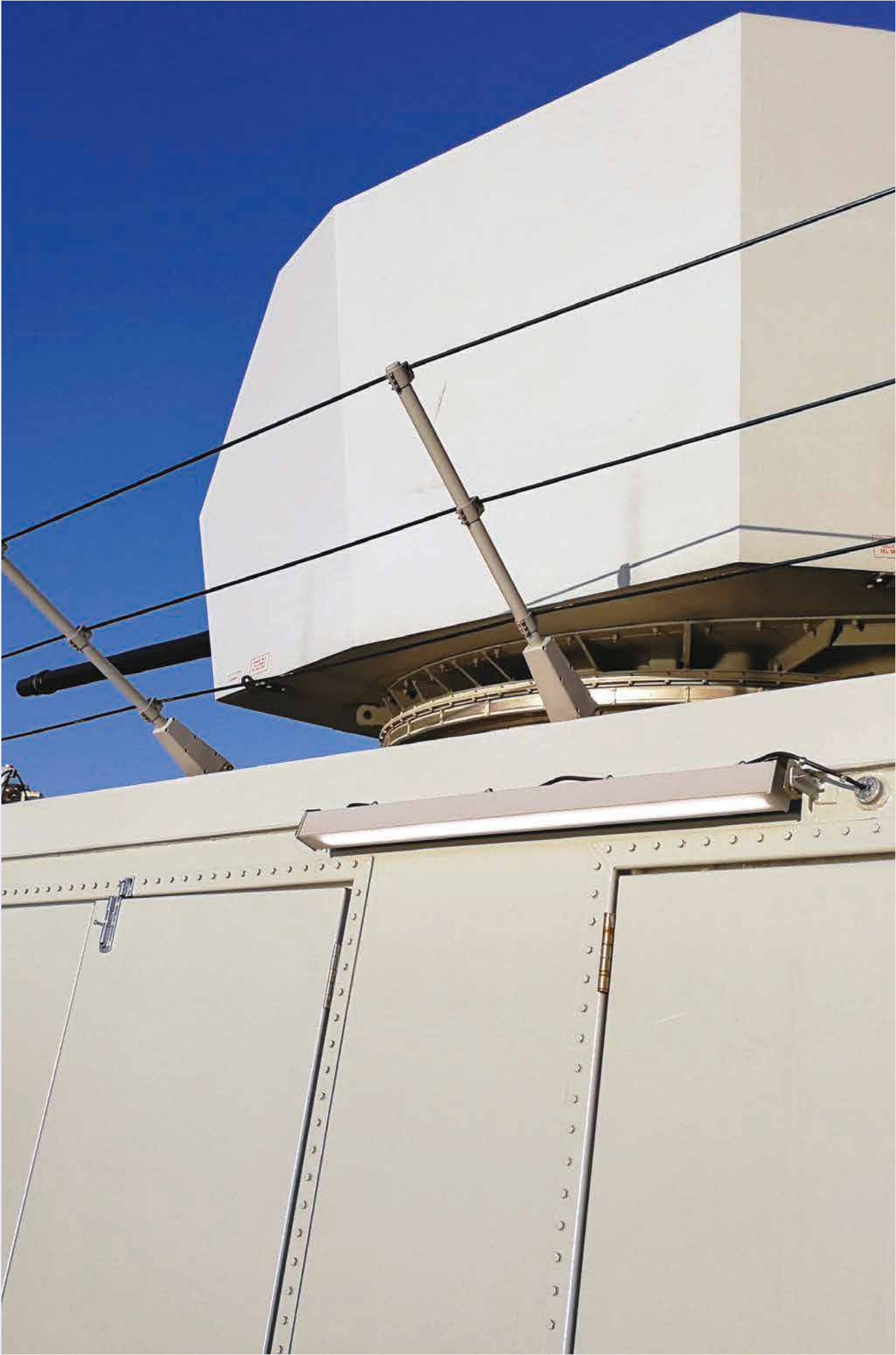
REDUCED RADAR CROSS SECTION
FOR STEALTH NAVY SHIP.



- Optic diffused beam**
120°
- Diffuser**
Opal polycarbonate
- Color Rendering Index**
CRI >85
- Photobiological risk group**
RG0
- Electric power input**
Not included external electronic power supply
- Wiring**
3 m cable line included
- Power factor**
>0,9
- Insulation Class**
Class III
- IP rate**
IP 67/67
- Housing**
Anodized aluminum
- Fixing**
Stainless steel brackets AISI 316L
- Weight, electric cable included**
2,5 Kg
- Lifetime**
100.000 hours
- International Standars**
IEC 60092-306; IEC 60533; EN 60598-1



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
24V DC	-25° / + 55°C	Grey RAL 7040	On/Off	4000K	2970 lm

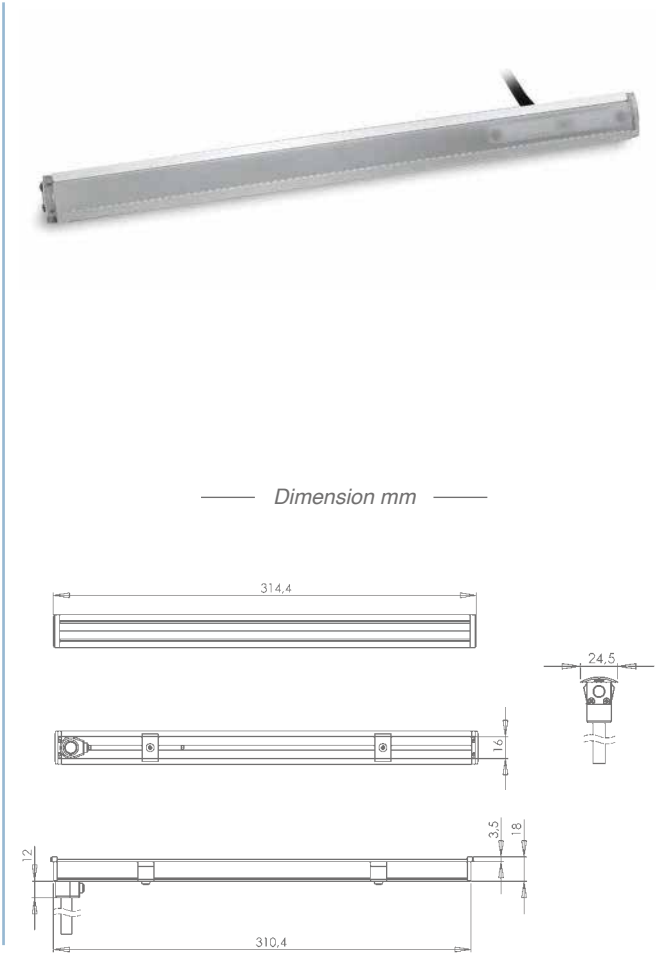


CTL

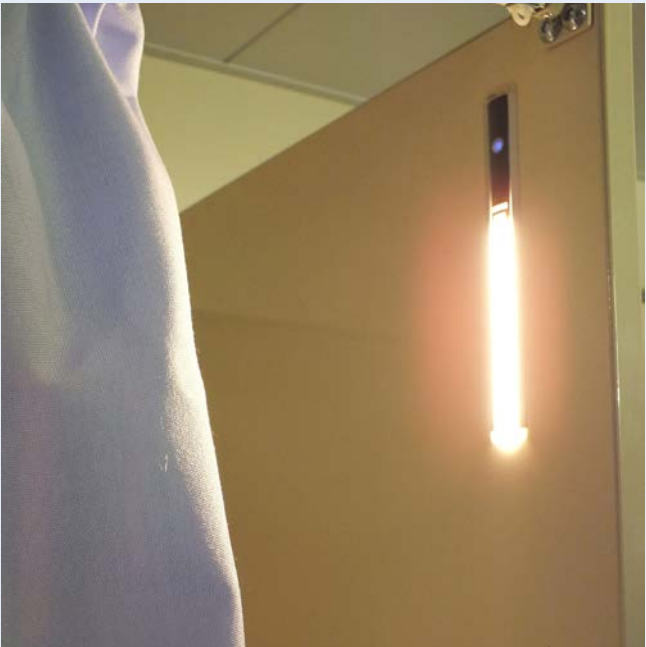
BERTH LIGHTS

Recessed led fixture with integrated on/off touch dimmable control

- Optic diffused beam
180°
- Diffuser
Opal polycarbonate
- Color Rendering Index
CRI >85
- Photobiological risk group
RG0
- Electric power input
Not included external electronic power supply
- Wiring
0,7m cable line included
- Power factor
>0,9
- Insulation Class
Class III
- IP rate
IP 20
- Housing
Anodized aluminum, grey natural color
- Fixing
two inox springs
- Weight, electric cable included
0,4 Kg
- Lifetime
> 50.000
- International Standards
EN 60598-1



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
24V DC	-25° / + 45°C	Anodized aluminium	Touch Dimmer On/Off	3000K	Max 630 lm



CLS

WRITING / READING CABINET TABLE LIGHTS

Recessed led fixture to be installed in “technical bar” over the cabinet table

Fixture lenght can be customized

Optic diffused beam
180°

Diffuser
Opal polycarbonate

Color Rendering Index
CRI >85

Photobiological risk group
RG0

Electric power input
Not included external electronic power supply

Wiring
0,7m cable line included

Power factor
>0,9

Insulation Class
Class III

IP rate
IP 20

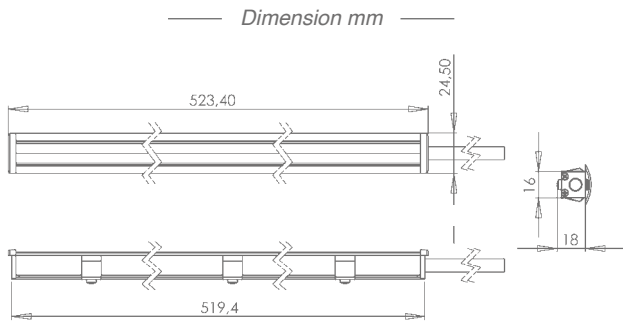
Housing
Anodized aluminum, grey natural color

Fixing
two inox springs

Weight, electric cable included
0,4 Kg

Lifetime
> 50.000

International Standars
EN 60598-1



Operation Voltage	Operating ambient temp.	Housing Color	Control System	Primary Light	
				LED light color	Lumen
24V DC	-25° / + 45°	Anodized aluminium	On/Off	4000K	Max 1580 lm
				3000	





REFERENCE LIST OF NAVY SHIPS SUPPLIED WITH OUR LED LIGHT NAVAL FIXTURES

updated Sept. 2026

YEARS BEGINNING-END	OWNER	SHIPS N°	TYPE	NOTE
2029 - 2030	Portuguese Navy	3	FREMM EVO frigates	New build
2027 - 2030	Portuguese Navy	6	Offshore Patrol Vessels (OPVs)	New build
2026	Spanish Navy	1	Diving Support Vessel Proserpina	New build
2025 - 2026	French Institute IFREMER	1	Hydro-oceanographic vessel	New build
2026	France Navy	1	BSAM Support vessel Loire	LED Refit
2026	France Navy	4	EDA-R Fast-Amphibious Landing Craft	LED Refit
2026 - TBD	France Navy	1	Hydro-oceanographic vessel	LED Refit
2026 - TBD	Italian Coast Guard	40	SAR patrol vessel	New build
2025 - 2026	Indonesian Navy	2	Multipurpose Combat Ship - MCS (former PPA)	New build
2026 - TBD	Royal Saudi Navy	40	SRPB - Short Range Patrol Boat	New build
2027 - TBD	Italian Navy	2	DDX destroyer	New build
2025 - TBD	Italian Navy	2	FREMM EVO frigates	New build
2025 - TBD	Italian Navy	2	Multipurpose Combat Ship - MCS (former PPA - EVO)	New build
2025 - TBD	Italian Navy	4	Hight seas tug boat	New build
2024 - TBD	Italian Navy	4	Harbour tug boat	New build
2025 - 2027	Italian Navy	2	Auxiliary units (MTC/MTF)	New build
2025 - 2027	Italian Navy	4	Training ship	New build
2024 - TBD	Spanish Navy	5/7	F110 frigate - Bonifaz class	New build
2024 - TBD	ISPRA Italian Institute for	1	Oceanographic research vessel	New build
2026 - TBD	Italian Navy	2	HORIZON class DESTROIER	LED Refit
2025 - TBD	Italian Navy	4	U212 - NFS submarine	New build
2027 - TBD	Italian Navy	2	Submarine Sauro class - fourth batch	New build
2025 - TBD	Italian Navy	3	OPV Offshore Patrol Vessels	New build
2027 - TBD	Navies forecasted ships:	24	EPC European Patrol Corvette	New build
2024 - 2026	Italian Navy	1	NIOM Hydro Oeanograpich Ship	New build
2024 - 2027	Italian Navy	1	SDO SuRS - Special and Diving Operations	New build
2025 - TBD	Italian Navy	12	Mine hunter	New build
2024	Italian Navy	1	VEGA OPV	LED Refit
2024	Italian Navy	1	ETNA ship - fleet tanker	LED Refit
2024 - TBD	Italian Coast Guard	1	UAM 90m patrol boat (2 in options)	New build
2023	France Navy	1	Commandant Blaison - Aviso	LED Refit
2023	Slovenian Navy	1	Patrol vessel - Triglav	LED Refit
2022	Italian Navy	2	FREMM frigates	New build
2022 - TBD	6 Belgium, 6 Holland, 6 France	18	MCMV Mine Counter Measures Vessel	New build
2022	Qatari Navy	1	LPD Landing Platform Dock	New build
2022	Italian Navy	1	Sail training school nave Palinuro	New build
2022 - 2029	Marine Nationale (France)	4	Ravitailleurs de Forces (BRF) - Chantier de L'Atlantique	New build
2022	Italian Coast Guard	1	CORSI ship	LED Refit
2021 - TBD	Guardia di Finanza (sea police)	7	CPV Coastal Patrol Vessel 44m	New build
2021	Italian Navy	1	LHD Landing Helicopter Dock "Trieste" ship	New build
2021	Fincantieri	1	Experimental ship hydrogen propelled ZEUS	New build
2020 - 2027	Italian Navy	1	Air carrier "Cavour" ship	LED Refit
2019 - 2024	Italian Navy	4	Submarine U212	LED Refit
2019 - 2021	Qatari Navy	2	OPV Offshore Patrol Vessel	New build
2019 - 2022	Qatari Navy	4	Multimission corvette	New build
2018 - 2025	Italian Navy	5	Multiporpose Combat Ship - MCS (former PPA)	New build
2017	Italian Navy	1	Sail training school ship "Palinuro"	LED Refit
2018 - 2020	Italian Navy	2	UNPAV high speed navy special forces patrol vessels 44m	New build
2017 - 2024	Italian Navy	3	LSS Logistic Support Ship "Vulcano"	New build
2016	Venezuelan Navy	1	U 209 submarine	LED Refit
2016	Italian Navy	1	Sail training school ship "Amerigo Vespucci"	LED Refit
2015 - 2021	Algerian Naval Force	3	Mine hunter	New build
2014	Algerian Naval Force	1	LPD Landing Platform Dock	New build

CAF2026-08



Headquarter

FABAS LUCE S.p.A.

Via Luigi Talamoni, 75
20861 BRUGHERIO (MB) Italy
Tel. 0039 039 214 22 06
0039 039 89 06 91
Fax 0039 039 214 22 08
www.fabasluce.it
info@fabasluce.it

FABAS LUCE GmbH

Westring, 5
D-59759 ARNSBERG Germany
Tel. +49 29 32 / 8 90 16 60
Fax. +49 29 32 / 8 90 16 62
www.fabasluce.com
vertrieb@fabasluce.com

