



GLOBAL MARINE & OFFSHORE

UL/CSA PRODUCTS



GLAMOX



GLOBAL MARINE & OFFSHORE
LIGHTING SOLUTIONS

Global Marine and Offshore (GMO)

Lighting Solutions

Global Lighting Solutions Generations of experience

The Glamox Group is the leading supplier of lighting solutions to the marine and offshore markets. We are a local partner – with global network. Through our five brands; aqua signal, Glamox, Høvik Lys, Luxo and Norselight we fulfill all your requirements, from floodlights and searchlights, through explosion proof luminaires and interior systems to navigation lighting. Our team of engineers have been carefully chosen to give the right blend of experience and creativity. The company develops high quality products and energy efficient systems for extreme applications, all based on innovative technology. Our solutions demand more than today's expertise – it demands generations of experience.

Photo: Helge Skodvin

This catalogue pooling the products of the brands Glamox, aqua signal and Høvik Lys.
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aqua signal specializes in the field of navigation lanterns, floodlights and technical luminaires deployed in widely varying environments. aqua signal supplies products for use in segments such as commercial shipping, cruise ships and ferries, navy vessels and recreational vessels, in other words, anything that operates on water.



GLAMOX Glamox has over decades been concentrating on the challenges of lighting technology for use in industrial environments. Glamox develops a wide range of products and complete lighting technology systems for use on seagoing ships and on the increasingly important offshore installations of the oil and gas industry. They specialize in explosion-proof luminaires made for hazardous areas.



Høvik Lys is a specialist in design and decor for marine hotels. The range of products from Høvik Lys consists primarily of decorative products. Høvik Lys supplies luminaires to the world's largest and most exclusive cruise ships.

The right light



Luxo is committed to supply innovative ergonomic lighting solutions to meet requirements for the right light. Focusing on the individual and the importance of how lighting influences our well being, they aim to be a partner in creating comfortable, flexible and stimulating environments.



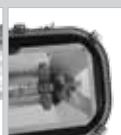
Norselight is regarded as the specialist in searchlights and floodlights that work reliably even under the most extreme conditions from the Artic Sea and winter to the Tropics.



TL
Technical light



TX
Ex Technical light



FL
Floodlight



FX
Ex Floodlight



SL
Searchlight



NL
Navigation light



NX
Ex Navigation light



DL
Downlight



AL
Architectural light



HL
Helideck light



TH
Technical heating



EL
Emergency light



Global Marine & Offshore

Total lighting solutions

Your partner in marine lighting

Glamox Canada was established in 1991 as the North American production and distribution center for the Glamox Group of products. Glamox Canada is owned by the Glamox Group, a leader among the worlds suppliers for light fixtures and lighting solutions to the global marine and offshore markets.

Glamox Canada is responsible for manufacturing, sales and distribution of well known brands of marine and offshore lighting: Glamox, Aqua Signal, Norselight and Hovik Lys. Glamox Canada manufactures all UL listed and CSA certified products for the group worldwide.

As a member of the Glamox Group, Glamox Canada is networked with affiliated companies and subsidiaries throughout the world, resulting in technical knowledge, sales and distribution on every continent. Glamox Canada has extensive knowledge of all regulatory standards to meet customer requirements anywhere in the world.

The Glamox Group values are:

- **Customers**
We value the importance of understanding customer needs and expectations
- **Cooperation**
We team up with customers and colleagues to find the best solutions
- **Commitment**
We are dedicated to deliver as promised
- **Quality**
We understand the importance of quality in products and performance
- **Ethics**
We treat people with respect and dignity

Marine and Offshore Lighting for the future

Long experience

Our experienced staff can give you advice on technical and explosion proof lighting required for all types of marine and offshore installations – worldwide.

Unique laboratories

Our laboratories are some of the best equipped environmental test centres for lighting equipment in Europe. They are recognized by Federal Maritime and Hydrographic Agency (constant light measuring and control).

CSA and UL approved luminaires

We manufacture the CSA and UL approved lighting product lines of Glamox, aqua signal, Norselight and Høvik lys in North America.

Technical light

We supply a complete range of lighting equipment for marine and offshore vessels. When the industry explores deep waters off the coast of South America or when the industry put the first FPSO in the Gulf of Mexico into operation, Glamox was its choice.

Emergency light

Our aim is to be a solution oriented partner for our customers. We make emergency light fixtures according to the rules of maritime classification societies and standards with modern design.

Ex Technical light

With experience as a world wide supplier to the commercial marine and oil & gas segments our main focus is quality, safety, on time delivery and service. The Ex luminaires have been developed through years of experience. We offer a complete range of lighting equipment designed for marine use.

Electrical heating

We offer electric heaters for marine and offshore installations. The heaters are protected against vibration and have a design that makes it easy to keep clean.









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GLOBE and
GUARD
Page 17

Machinery space and exterior

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- Easy maintenance
- High quality marine long life luminaire
- Emergency versions

Application

Decks, machinery spaces, stores, holds, etc.

Approvals

UL 1598 & 1598A and ULC C22.2
No.250.0-00

Protection

IP54 or IP67

Housing

Aluzinc sheet steel or stainless steel, deep drawn, seamless.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

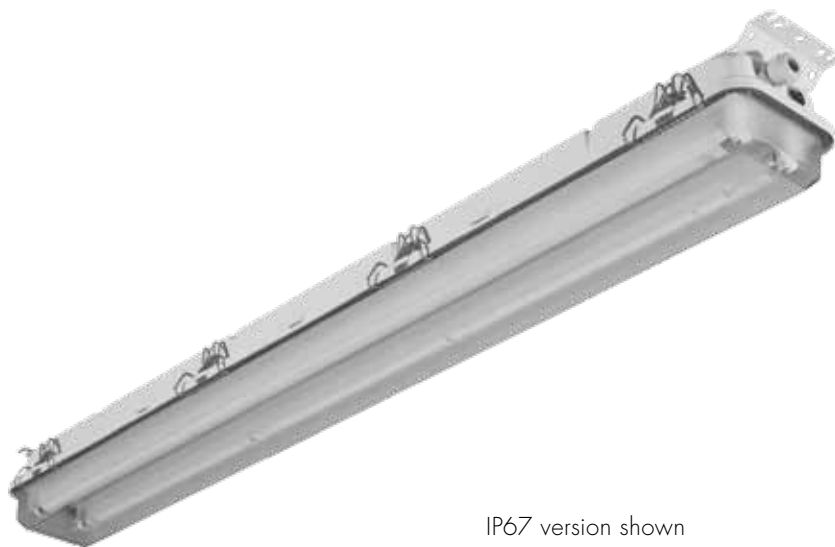
Clear polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One M20 cable gland and one M20 blind plug in each end. Other configurations available upon request.



IP67 version shown

Lamp base

G13 / 2G11 / G5

Light source (not included)

Fluorescent lamp; 17/32W T8, 54W/ T5HO or 40W compact fluorescent with electronic ballast.

Battery backup

Optional 90 minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

2 fixed brackets for direct mounting to bulkhead or deckhead. Custom mounting brackets are also available.

Options

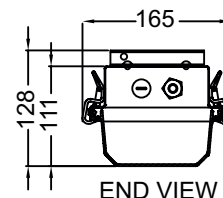
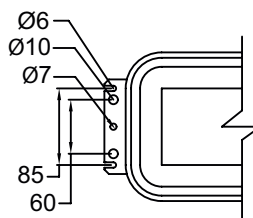
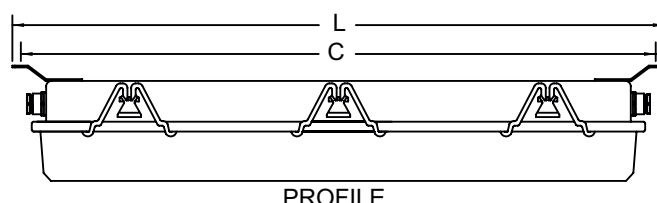
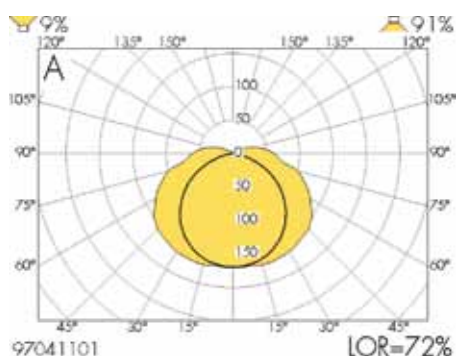
Low temperature ballast, switchable red center lamp, reflectors.

Product	IP Class	Part No. Aluzinc 120-277V/50-60Hz	Part No. Stainless Steel 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GKI 2X17W	54	GKI 1008	GKI 1046	724	704	3,2	F17/T8	G13
GKI 2X17W	67	GKI 1042	GKI 1050	724	704	3,2	F17/T8	G13
GKI 2X17W with Battery Backup	54	GKI 1040	GKI 1048	724	704	4,1	F17/T8	G13
GKI 2X17W with Battery Backup	67	GKI 1044	GKI 1052	724	704	4,1	F17/T8	G13
GKI 3X17W	54	GKI 1101	GKI 1109	724	704	3,2	F17/T8	G13
GKI 3X17W	67	GKI 1102	GKI 1110	724	704	3,2	F17/T8	G13
GKI 3X17W with Battery Backup	54	GKI 1105	GKI 1113	724	704	4,1	F17/T8	G13
GKI 3X17W with Battery Backup	67	GKI 1106	GKI 1114	724	704	4,1	F17/T8	G13
GKI 2X32W	54	GKI 1039	GKI 1047	1334	1314	6,0	F32/T8	G13
GKI 2X32W	67	GKI 1043	GKI 1051	1334	1314	6,0	F32/T8	G13
GKI 2X32W with Battery Backup	54	GKI 1041	GKI 1049	1334	1314	7,0	F32/T8	G13
GKI 2X32W with Battery Backup	67	GKI 1045	GKI 1053	1334	1314	7,0	F32/T8	G13
GKI 3X32W	54	GKI 1085	GKI 1093	1334	1314	6,0	F32/T8	G13
GKI 3X32W	67	GKI 1086	GKI 1094	1334	1314	6,0	F32/T8	G13
GKI 3X32W with Battery Backup	54	GKI 1089	GKI 1097	1334	1314	7,0	F32/T8	G13
GKI 3X32W with Battery Backup	67	GKI 1090	GKI 1098	1334	1314	7,0	F32/T8	G13
GKI 2X40W/30BX	54	GKI 1116	GKI 1124	724	704	3,2	F40/30BX	2G11
GKI 2X40W/30BX	67	GKI 1117	GKI 1125	724	704	3,2	F40/30BX	2G11
GKI 2X40W/30BX with Battery Backup	54	GKI 1120	GKI 1128	724	704	4,1	F40/30BX	2G11
GKI 2X40W/30BX with Battery Backup	67	GKI 1121	GKI 1129	724	704	4,1	F40/30BX	2G11

Product	IP Class	Part No. Aluzinc 120-277V/50-60Hz	Part No. Stainless Steel 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GKI 2X54W	54	GKI 1154	GKI 1156	1334	1314	6,0	F54/T5HO	G5
GKI 2X54W	67	GKI 1155	GKI 1157	1334	1314	6,0	F54/T5HO	G5
GKI 2X54W with Battery Backup	54	GKI 1158	GKI 1160	1334	1314	7,0	F54/T5HO	G5
GKI 2X54W with Battery Backup	67	GKI 1159	GKI 1161	1334	1314	7,0	F54/T5HO	G5
GKI 3X54W	54	GKI 1150	GKI 1152	1334	1314	6,0	F54/T5HO	G5
GKI 3X54W	67	GKI 1151	GKI 1153	1334	1314	6,0	F54/T5HO	G5
GKI 3X54W with Battery Backup	54	GKI 1162	GKI 1164	1334	1314	7,0	F54/T5HO	G5
GKI 3X54W with Battery Backup	67	GKI 1163	GKI 1165	1334	1314	7,0	F54/T5HO	G5

Spare Parts	Part No.
Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Ballast, 3X17/32W, 120-277V/50-60Hz	991006
Ballast, 2X40W/30BX, 120-277V/50-60Hz	991048
Ballast, 2X54W, 120-277V/50-60Hz	991053
Ballast, 3X54W, 120-277V/50-60Hz	991055
Diffuser, 17/40W, Clear Polycarbonate	993000
Diffuser, 32/54W, Clear Polycarbonate	993001
Lens Clip, Stainless Steel (4 pcs)	995047
Battery Backup Unit, 17/32/40W, 90 Minute, 120-277V	991036
Battery Backup Unit, 54W, 90 Minute, 120-277V	991054
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Lamp, 40W/30BX, CF, Cool White	994006
Lamp, 54W/T5HO, Min. Bi-Pin, Cool White	994040
Lampholder, 17/32W, G13, White, (4 pcs)	992000
Lampholder, 40W/30BX, 2G11, White, (4 pcs)	992008
Lampholder, 54W, G5, White (4 pcs)	992028
Cable Gland, M20 Polyamide (4 pcs)	995067
Blind Plug, M20 Nickel Plated Brass (4 pcs)	995079

Accessories	Part No.
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035



All Dimensions in mm

1444

Multipurpose Luminaire, Surface



- Easy maintenance
- High quality marine long life luminaire
- Emergency versions

Application

Decks, machinery spaces, stores, holds, etc.

Approvals

UL 1598 & 1598A.

Protection

IP55 or IP67

Housing

Aluzinc sheet steel or stainless steel, deep drawn, seamless.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate or optional opal polycarbonate.

Electrics

Fully removable gear tray for easy installation. Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One M20 cable gland and one M20 blind plug in each end.
Other configurations available upon request.



IP67 version shown

Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90 minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

2 brackets for direct mounting to bulkhead or deckhead.

Remarks

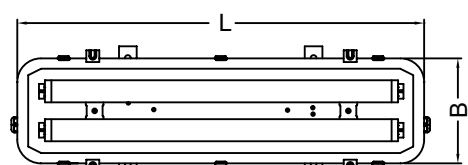
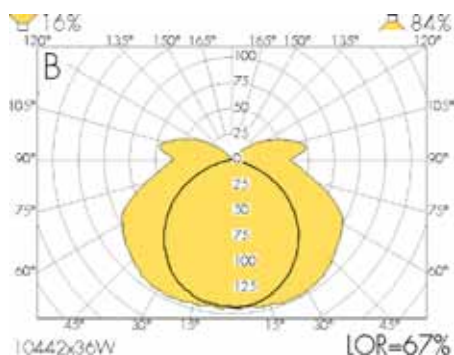
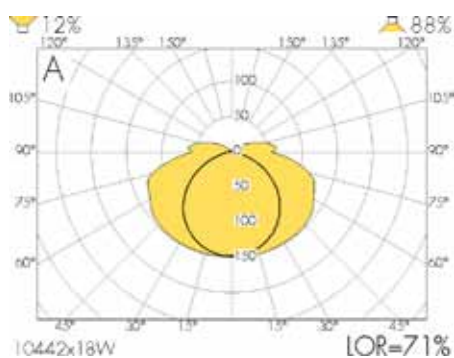
Low temperature ballast is available upon request.

Product	IP Class	Part No. Aluzinc 120-277V/50-60Hz	Part No. Stainless Steel 120-277V/50-60Hz	L mm	B mm	C mm	Weight kg	Lamp Code	Lamp Base
1444 2X17W	55	0801003017	0801003021	692	175	315	4,0	F17/T8	G13
1444 2X17W	67	0801003019	0801003023	692	175	315	4,0	F17/T8	G13
1444 2X17W with Battery Backup	55	0801003018	0801003022	692	175	315	4,8	F17/T8	G13
1444 2X17W with Battery Backup	67	0801003020	0801003024	692	175	315	4,8	F17/T8	G13
1444 3X17W	55	0801003030	0801003031	692	175	315	4,2	F17/T8	G13
1444 3X17W	67	0801003029	0801003032	692	175	315	4,2	F17/T8	G13
1444 3X17W with Battery Backup	55	0801003033	0801003034	692	175	315	4,8	F17/T8	G13
1444 3X17W with Battery Backup	67	0801003035	0801003036	692	175	315	4,8	F17/T8	G13
1444 2X32W	55	0801004017	0801004021	1340	132	930	5,7	F32/T8	G13
1444 2X32W	67	0801004019	0801004023	1340	132	930	5,7	F32/T8	G13
1444 2X32W with Battery Backup	55	0801004018	0801004022	1340	132	930	6,5	F32/T8	G13
1444 2X32W with Battery Backup	67	0801004020	0801004024	1340	132	930	6,5	F32/T8	G13

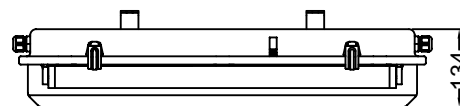
Spare Parts

	Part No.
Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Ballast, 3X17W, 120-277V/50-60Hz	991006
Diffuser, 17W, Clear Polycarbonate	993002
Diffuser, 32W, Clear Polycarbonate	993003

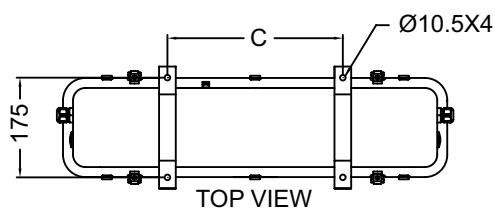
Spare Parts	Part No.
Battery Backup Unit, 90 Minute, 120-277V	991036
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Lampholder, 17/32W, G13, White, (4 pcs)	992001
Cable Gland, M20 Polyamide (4 pcs)	995067
Blind Plug, M20 Nickel Plated Brass (4 pcs)	995079
Accessories	Part No.
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035
Opal Diffuser, 17W	993120
Opal Diffuser, 32W	993121



BOTTOM VIEW



SIDE VIEW



TOP VIEW

All Dimensions in mm

1995

Globe Light, Deck or Bulkhead Mounted



- Impact resistant globe
- Nonmetallic impact resistant housing
- Fully removable gear tray

Application

Designed as an alternative to the brass globe & guard fixture. It is also available in many different color globes for use as a signalling light. Ideal for salt water environments.

Approvals

UL 1598 & 1598A.

Protection

Watertight, superior corrosion resistance.

Housing

Special black rigid plastic.

Globe

Impact resistant clear rigid plastic, available in clear, green, red, blue, & yellow.

Electrics

Fully removable gear tray for easy installation. Flexible wiring, heat resistant.

Cable entry

Four M20 threaded openings with knock-outs. One M20 cable gland supplied. Please order additional cable glands separately.



1995 Bulkhead Mount



1995 Deck Mount

Lamp base

Medium base screw socket or G23.

Light source (not included)

Incandescent 100W max. or compact fluorescent lamp 9W, G23.

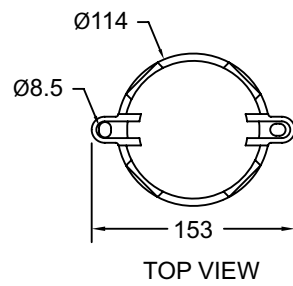
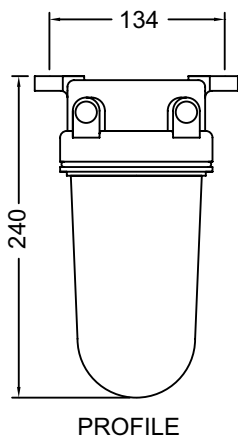
Mounting

2 integral brackets for direct mounting to deckhead. Optional wall mounting bracket also available. Please order separately.

Product	Clear	Green	Red	Yellow	Blue	Weight kg	Lamp Base
1995 9W Compact Fluorescent; 120V/60HZ	0802001001	0802002001	0802003001	0802004001	0802005001	0,9	G23
1995 100W Incandescent; Max. 277V	0802006001					0,9	Med
1995 75W Incandescent; Max. 277V		0802007001	0802008001	0802009001	0802010001	0,9	Med

Spare Parts	Part No.
Ballast, 9W, 120V/60Hz	991008
Lampholder, G23 Fluorescent (4 pcs)	992005
Lampholder, Medium Screw Base (4 pcs)	992006
Cable Gland, M20 Polyamide (4 pcs)	995067
Globe, Clear	993006
Globe, Green	993007
Globe, Red	993008
Globe, Yellow	993009
Globe, Blue	993010

Accessories	Part No.
Wall Mount Bracket	995080



All Dimensions in mm

GIOC

Industrial/ Mining Wet Location Luminaire



- Unique design for mining environment, prevents collection of dust
- Safety glass lens
- Spring loaded lampholders

Application

Severe industrial applications including wet and abrasive environments. Designed to prevent dust from collecting on lens.

Approvals

CSA C22.2 No. 250.0-00.

Protection

NEMA 13

Housing

Sheet aluminum.

Finish

Epoxy powder coated, white RAL 9016.

Lens

Safety glass.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15A.

Cable entry

One 3/4" hole in one end & one 3/4" blind plug in other end.

Lamp base

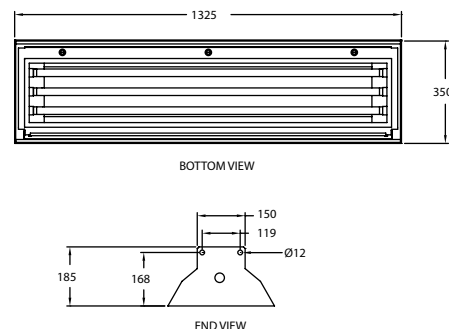
Push on spring loaded lampholders G13/G5.

Light source (not included)

Fluorescent lamp; 32W/T8 or 54W/T5HO with electronic ballast.

Mounting

Integral mounting brackets for double chain hanging.



All Dimensions in mm

Product	Part No. 120-277V/50-60Hz	Weight kg	Lamp Code	Lamp Base
GIOC 3X32W	GIOC 1008	13,0	F32/T8	G13
GIOC 4X54W	GIOC 1009	13,0	F54/T5HO	G5
Spare Parts	Part No.			
Ballast, 3X32W, 120-277V/50-60Hz, Electronic	991006			
Ballast, 4X54W, 120-277V/50-60Hz, Electronic	991055			
Lampholder, 32W, Spring Loaded (4 pcs)	992003			
Lampholder, 32W, Stationary (4 pcs)	992004			
Lampholder, 54W, G5, White (4 pcs)	992028			
Lamp, F32/T8, Bi-Pin, Cool White	994002			
Lamp, F54/T5HO, Min. Bi-Pin, Cool White	994040			
Diffuser, Lens and Frame Assembly	993005			

GLOBE and GUARD Luminaire, Incandescent



- Long life brass housing
- Robust fixture

Application

Decks, machinery spaces, stores, holds, etc.

Approvals

UL Marine Type, UL 1598 & 1598A

Protection

Watertight

Housing

Cast bronze or cast aluminum

Finish

Natural

Globe

Clear glass

Junction Box

Four-way drilling and tapping as required. Junction box furnished blank unless specified otherwise. Add suffix letter "C" to the catalogue number for optional 4-wire connection block.

Lamp base

Medium screw base



Light source (not included)

Incandescent

Mounting

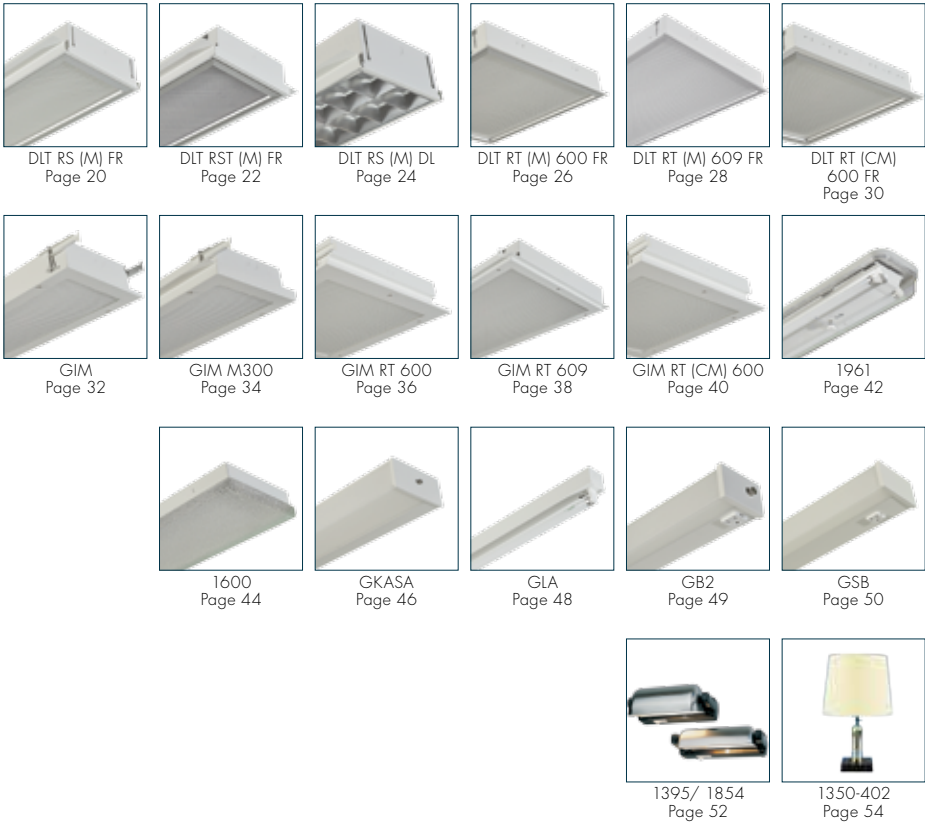
Direct mounting to bulkhead or deckhead



Product	Bulkhead Mounting	Throu Bulkhead Mounting	Deckhead Mounting	Base
Cast Bronze - 60W Incandescent	OC-5950-B	OC5960-B	OC805-B	Med Screw
Cast Bronze - 100W Incandescent	OC-5951-B	OC5961-B	OC806-B	Med Screw
Cast Bronze - 150W Incandescent	OC5952-B		OC1806-B	Med Screw
Cast Bronze - 200W Incandescent			OC2806-B	Med Screw
Cast Aluminum - 60W Incandescent	OC5950-A	OC5960-A	OC805-A	Med Screw
Cast Aluminum - 100W Incandescent	OC5951-A	OC5961-A	OC806-A	Med Screw
Cast Aluminum - 150W Incandescent	OC5952-A		OC1806-A	Med Screw
Cast Aluminum - 200W Incandescent			OC2806-A	Med Screw
Spare Parts	Part No.			
Globe, 60W	OC500			
Globe, 100W	OC600			
Globe, 150W	OC700			
Globe, 200W	OC1620			
Lampholder, 60-200W	OC684A1			
Guard, 60W, Cast Bronze	OC517			
Guard, 100W, Cast Bronze	OC517			
Guard, 150W, Cast Bronze	OC518			
Guard, 200W, Cast Bronze	OC1265			

Note: For cast aluminum guards, add suffix letter "A" to the part number.





Accommodation Space

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DLT RS (M) FR

Interior Luminaire, Recessed



- Single or continuous installation in panel ceilings
- Wide range of optical systems
- Side profiles or frame to fit to a wide range of ceiling types

Application

Interior, recessed mounted.

Approvals

UL 1598 & 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Aluminum extrusion frame with a selection of different acrylic diffuser materials.

FR1: Double prismatic acrylic panel,
FR2: Acrylic opal panel,
FR3: White acrylic grid,
FR4: Metallised acrylic grid in silver,
FR5: Double prismatic polycarbonate.

electronic ballast. 25W available upon request.

Battery backup

Optional 90-minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.



FR3



FR4

Electrics

Flexible wiring, heat resistant to 105°C;
through wiring up to 15 A.

Charge time after full discharge

24 hours.

Cable entry

One ½" knockout in each end and back,
others upon request.

Mounting

Designed for recessed parallel mounting
in a linear interlocking ceiling system.
(Dampa, Dana Acoustic, BIP, etc.).
Mounting kit provided.



Lamp base

G13

Light source(not included)

Fluorescent lamp; 17/32W T8 with

Dimming

Optional dimming ballast available upon request.

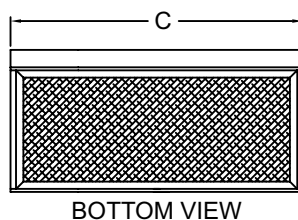
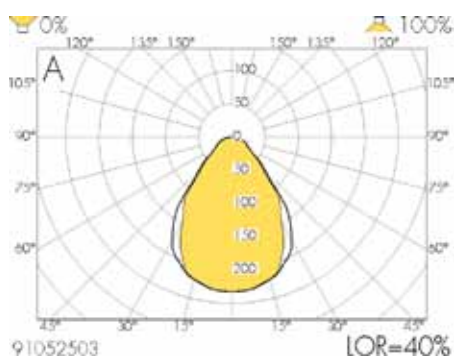
Product	Part No. FR1 DIFFUSER 120-277V/50-60Hz	Part No. FR2 DIFFUSER 120-277V/50-60Hz	Part No. FR3 DIFFUSER 120-277V/50-60Hz	Part No. FR4 DIFFUSER 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
DLT RS (M) FR 2X17W	DLT 1021	DLT 1030	DLT 1042	DLT 1054	848	640	6,2	F17/T8	G13
DLT RS (M) FR 2X17W with Battery Backup	DLT 1023	DLT 1032	DLT 1044	DLT 1056	848	640	7,0	F17/T8	G13
DLT RS (M) FR 2X32W	DLT 1022	DLT 1031	DLT 1043	DLT 1055	1460	1252	9,4	F32/T8	G13
DLT RS (M) FR 2X32W with Battery Backup	DLT 1024	DLT 1033	DLT 1045	DLT 1057	1460	1252	10,9	F32/T8	G13
Spare Parts					Part No.				
Ballast, 2X17/32W, 120-277V/50-60Hz					991003				
Lampholder, 17/32W, G13, White, (4 pcs)					992001				
Battery Backup Unit, 90 Minute, 120-277V					991036				
Lamp, 17W/T8, Bi-Pin, Cool White					994000				
Lamp, 32W/T8, Bi-Pin, Cool White					994002				
Diffuser (including frame), FR1, 17W Double Prismatic					993011				
Diffuser (including frame), FR2, 17W Opal					993012				

Spare Parts

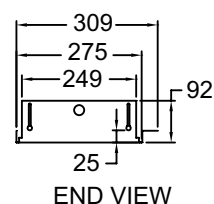
	Part No.
Diffuser (including frame), FR3, 17W White Plastic Grid	993013
Diffuser (including frame), FR4, 17W Metallised Silver Grid	993014
Diffuser (including frame), FR1, 32W Double Prismatic	993015
Diffuser (including frame), FR2, 32W Opal	993016
Diffuser (including frame), FR3, 32W White Plastic Grid	993017
Diffuser (including frame), FR4, 32W Metallised Silver Grid	993018

Accessories

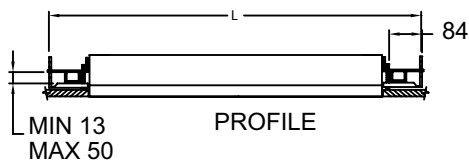
	Part No.
Mounting Bracket RS 284 (1 set)	995081
DLT Frame, 17W, 300mmX660mmX10mm	995083
DLT Frame, 32W, 300mmX1280mmX10mm	995084
DLT Frame, 17W, 330mmX660mmX10mm	995085
DLT Frame, 32W, 330mmX1280mmX10mm	995086
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035



BOTTOM VIEW



END VIEW



PROFILE

All Dimensions in mm

DLT RST (M) FR

Interior Luminaire, Recessed



- Single or continuous installation in panel ceilings
- Wide range of optical systems
- Side profiles or frame to fit to a wide range of ceiling types

Application

Interior, recessed mounted.

Approvals

UL 1598 & 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Aluminum extrusion frame with a selection of different acrylic diffuser materials.

FR1: Double prismatic acrylic panel,
FR2: Acrylic opal panel,
FR3: White acrylic grid,
FR4: Metallised acrylic grid in silver,
FR5: Double prismatic polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One ½" knockout in each end, others upon request.

Lamp base

G13



Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

Designed for recessed transverse mounting in a Dampa, Dana Acoustic ceiling. Mounting Kit provided.

Dimming

Optional dimming ballast available upon request.

Product	Part No. FR1 DIFFUSER 120-277V/50-60Hz	Part No. FR2 DIFFUSER 120-277V/50-60Hz	Part No. FR3 DIFFUSER 120-277V/50-60Hz	Part No. FR4 DIFFUSER 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
DLT RST (M) FR 2X17W	DLT 6216	DLT 6217	DLT 6218	DLT 6219	633	575	4,9	F17/T8	G13
DLT RST (M) FR 2X17W with Battery Backup	DLT 6240	DLT 6241	DLT 6242	DLT 6243	633	575	5,7	F17/T8	G13
DLT RST (M) FR 2X32W	DLT 6220	DLT 6221	DLT 6222	DLT 6223	1255	1175	8,9	F32/T8	G13
DLT RST (M) FR 2X32W with Battery Backup	DLT 6244	DLT 6245	DLT 6246	DLT 6247	1255	1175	9,7	F32/T8	G13

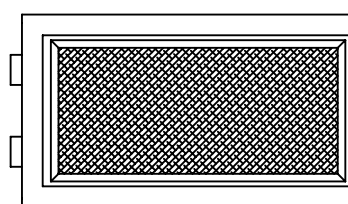
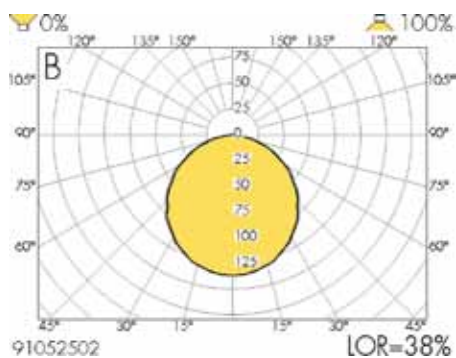
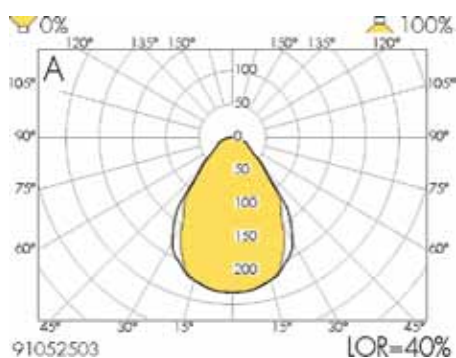
Spare Parts	Part No.
Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Lampholder, 17/32W, G13, White, (4 pcs)	992001
Battery Backup Unit, 90 Minute, 120-277V	991036
Lamp, 17W/T8, Bi-Pin, Cool White	994000

Spare Parts

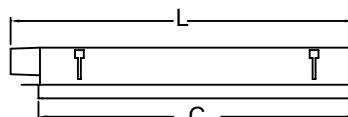
	Part No.
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Diffuser (including frame), FR1, 17W Double Prismatic	993027
Diffuser (including frame), FR2, 17W Opal	993028
Diffuser (including frame), FR3, 17W White Plastic Grid	993029
Diffuser (including frame), FR4, 17W Metallised Silver Grid	993030
Diffuser (including frame), FR1, 32W Double Prismatic	993031
Diffuser (including frame), FR2, 32W Opal	993032
Diffuser (including frame), FR3, 32W White Plastic Grid	993033
Diffuser (including frame), FR4, 32W Metallised Silver Grid	993034

Accessories

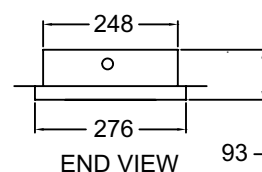
	Part No.
Mounting Bracket RT (1 set)	995082
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035



BOTTOM VIEW



PROFILE



END VIEW

All Dimensions in mm

DLT RS (M) DL

Interior Luminaire, Recessed



- Single or continuous installation in panel ceilings
- High quality light distribution
- Side profiles or frame to fit to a wide range of ceiling types

Application

Interior, recessed mounted.

Approvals

UL 1598 & 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

DarkLight (DL) aluminum louver with a clear acrylic finish.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One 1/2" knockout in each end and back, others upon request.

Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast. 25W available upon request.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

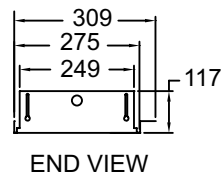
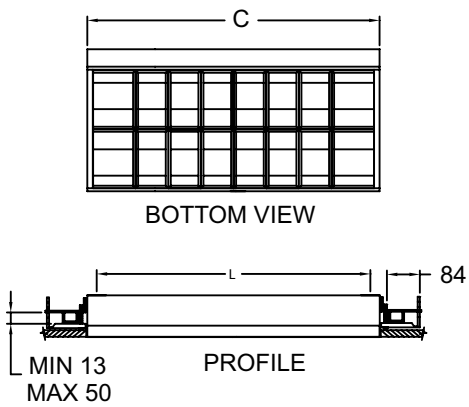
Designed for recessed parallel mounting in a linear interlocking ceiling system. (Dampa, Dana Acoustic, BIP, etc.). Mounting kit provided.

Dimming

Optional dimming ballast available upon request.



Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
DLT RS (M) DL 2X17W	DLT 1072	848	640	5,4	F17/T8	G13
DLT RS (M) DL 2X17W with Battery Backup	DLT 1078	848	640	6,2	F17/T8	G13
DLT RS (M) DL 2X32W	DLT 1073	1460	1252	8,8	F32/T8	G13
DLT RS (M) DL 2X32W with Battery Backup	DLT 1079	1460	1252	9,6	F32/T8	G13
Spare Parts	Part No.					
Ballast, 2X17/32W, 120-277V/50-60Hz	991003					
Lampholder, 17/32W, G13, White, (4 pcs)	992001					
Battery Backup Unit, 90 Minute, 120-277V	991036					
Lamp, 17W/T8, Bi-Pin, Cool White	994000					
Lamp, 32W/T8, Bi-Pin, Cool White	994002					
Louver, DL, 17W DarkLight	993069					
Louver, DL, 32W DarkLight	993071					
Accessories	Part No.					
Mounting Bracket RS 284 (1 set)	995081					
DLT Frame, 17W, 300mmX660mmX10mm	995083					
DLT Frame, 32W, 300mmX1280mmX10mm	995084					
DLT Frame, 17W, 330mmX660mmX10mm	995085					
DLT Frame, 32W, 330mmX1280mmX10mm	995086					
Red Lamp Sleeve, 17W/T8	995034					
Red Lamp Sleeve, 32W/T8	995035					



All Dimensions in mm



DLT RT (M) 600 FR

Interior Luminaire, Recessed



- Easy installation
- Wide range of optical systems
- For use in 600mm inverted T-Bar

Application

Interior, recessed mounted.

Approvals

UL 1598 & 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Aluminum extrusion frame with a selection of different acrylic diffuser materials.

FR1: Double prismatic acrylic panel,
FR2: Acrylic opal panel,
FR3: White acrylic grid,
FR4: Metallised acrylic grid in silver,
FR5: Double prismatic polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two ½" knockouts in each end, others upon request.



Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

Designed for 600mm inverted T-bar ceiling. Standard side mounting kit provided. A 300mm version is also available.

Dimming

Optional dimming ballast available upon request.

Product	Part No. FR1 DIFFUSER 120-277V/50-60Hz	Part No. FR2 DIFFUSER 120-277V/50-60Hz	Part No. FR3 DIFFUSER 120-277V/50-60Hz	Part No. FR4 DIFFUSER 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
DLT RT (M) 600 FR 2X17W	DLT 5028	DLT 5029	DLT 5030	DLT 5031	613	597	6,5	F17/T8	G13
DLT RT (M) 600 FR 2X17W with Battery Backup	DLT 5061	DLT 5062	DLT 5063	DLT 5064	613	597	7,8	F17/T8	G13
DLT RT (M) 600 FR 3X17W	DLT 5032	DLT 5033	DLT 5034	DLT 5035	613	597	7,5	F17/T8	G13
DLT RT (M) 600 FR 3X17W with Battery Backup	DLT 5065	DLT 5066	DLT 5067	DLT 5068	613	597	8,8	F17/T8	G13
DLT RT (M) 600 FR 4X17W	DLT 5036	DLT 5037	DLT 5038	DLT 5039	613	597	7,5	F17/T8	G13
DLT RT (M) 600 FR 4X17W with Battery Backup	DLT 5069	DLT 5070	DLT 5071	DLT 5072	613	597	8,8	F17/T8	G13
DLT RT (M) 600 FR 2X32W	DLT 5097	DLT 5098	DLT 5099	DLT 5100	1222	1197	9,1	F32/T8	G13
DLT RT (M) 600 FR 2X32W with Battery Backup	DLT 5133	DLT 5134	DLT 5135	DLT 5136	1222	1197	10,5	F32/T8	G13
DLT RT (M) 600 FR 3X32W	DLT 5101	DLT 5102	DLT 5103	DLT 5104	1222	1197	10,0	F32/T8	G13
DLT RT (M) 600 FR 3X32W with Battery Backup	DLT 5137	DLT 5138	DLT 5139	DLT 5140	1222	1197	11,4	F32/T8	G13
DLT RT (M) 600 FR 4X32W	DLT 5105	DLT 5106	DLT 5107	DLT 5108	1222	1197	10,0	F32/T8	G13
DLT RT (M) 600 FR 4X32W with Battery Backup	DLT 5141	DLT 5142	DLT 5143	DLT 5144	1222	1197	11,4	F32/T8	G13

Spare Parts

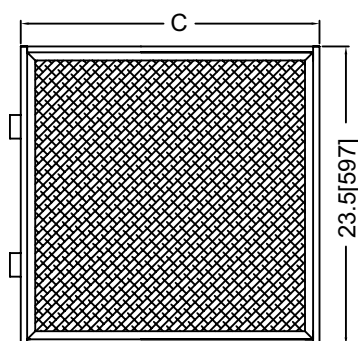
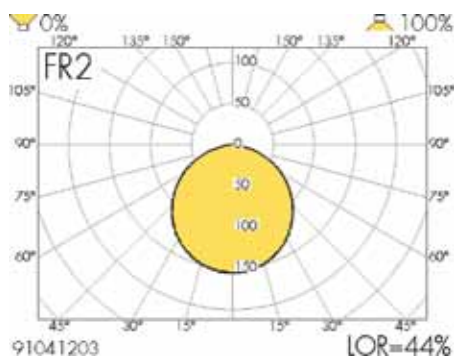
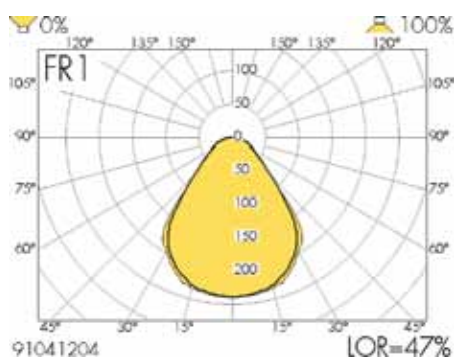
Part No.

Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Ballast, 3X17/32W, 120-277V/50-60Hz	991006
Ballast, 4X17/32W, 120-277V/50-60Hz	991054
Lampholder, 17/32W, G13, White, (4 pcs)	992001
Battery Backup Unit, 90 Minute, 120-277V	991036
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Diffuser (including frame), FR1, 17W Double Prismatic	993098
Diffuser (including frame), FR2, 17W Opal	993099
Diffuser (including frame), FR3, 17W White Plastic Grid	993100
Diffuser (including frame), FR4, 17W Metallised Silver Grid	993101
Diffuser (including frame), FR1, 32W Double Prismatic	993102
Diffuser (including frame), FR2, 32W Opal	993103
Diffuser (including frame), FR3, 32W White Plastic Grid	993104
Diffuser (including frame), FR4, 32W Metallised Silver Grid	993105

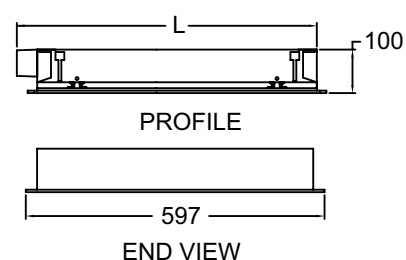
Accessories

Part No.

Mounting Bracket RT (1 set)	995082
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035



BOTTOM VIEW



All Dimensions in mm

DLT RT (M) 609 FR

Interior Luminaire, Recessed



- Easy installation
- Wide range of optical systems
- For use in 609mm (24in) inverted T-Bar

Application

Interior, recessed mounted.

Approvals

UL 1598 & 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Aluminum extrusion frame with a selection of different acrylic diffuser materials.

FR1: Double prismatic acrylic panel,
FR2: Acrylic opal panel,
FR3: White acrylic grid,
FR4: Metallised acrylic grid in silver,
FR5: Double prismatic polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C;
through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others
upon request.



Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with
electronic ballast.

Battery backup

Optional 90-minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon
request.

Charge time after full discharge

24 hours.

Mounting

Designed for 24" / 609mm inverted T-bar
ceiling. Standard side mounting kit pro-
vided. A 12" version is also available.

Dimming

Optional dimming ballast available upon
request.

Product	Part No. FR1 DIFFUSER 120-277V/50-60Hz	Part No. FR2 DIFFUSER 120-277V/50-60Hz	Part No. FR3 DIFFUSER 120-277V/50-60Hz	Part No. FR4 DIFFUSER 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
DLT RT (M) 609 FR 2X17W	DLT 2028	DLT 2064	DLT 2100	DLT 2136	613	606	6,5	F17/T8	G13
DLT RT (M) 609 FR 2X17W with Battery Backup	DLT 2034	DLT 2070	DLT 2106	DLT 2142	613	606	7,8	F17/T8	G13
DLT RT (M) 609 FR 3X17W	DLT 2029	DLT 2065	DLT 2101	DLT 2137	613	606	7,5	F17/T8	G13
DLT RT (M) 609 FR 3X17W with Battery Backup	DLT 2035	DLT 2071	DLT 2107	DLT 2143	613	606	8,8	F17/T8	G13
DLT RT (M) 609 FR 4X17W	DLT 2030	DLT 2066	DLT 2102	DLT 2138	613	606	7,5	F17/T8	G13
DLT RT (M) 609 FR 4X17W with Battery Backup	DLT 2036	DLT 2072	DLT 2108	DLT 2144	613	606	8,8	F17/T8	G13
DLT RT (M) 609 FR 2X32W	DLT 2031	DLT 2067	DLT 2103	DLT 2139	1222	1216	9,1	F32/T8	G13
DLT RT (M) 609 FR 2X32W with Battery Backup	DLT 2037	DLT 2073	DLT 2109	DLT 2145	1222	1216	10,5	F32/T8	G13
DLT RT (M) 609 FR 3X32W	DLT 2032	DLT 2068	DLT 2104	DLT 2140	1222	1216	10,0	F32/T8	G13
DLT RT (M) 609 FR 3X32W with Battery Backup	DLT 2038	DLT 2074	DLT 2110	DLT 2146	1222	1216	11,4	F32/T8	G13
DLT RT (M) 609 FR 4X32W	DLT 2033	DLT 2069	DLT 2105	DLT 2141	1222	1216	10,0	F32/T8	G13
DLT RT (M) 609 FR 4X32W with Battery Backup	DLT 2039	DLT 2075	DLT 2111	DLT 2147	1222	1216	11,4	F32/T8	G13

Spare Parts

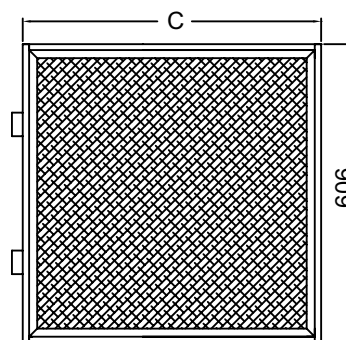
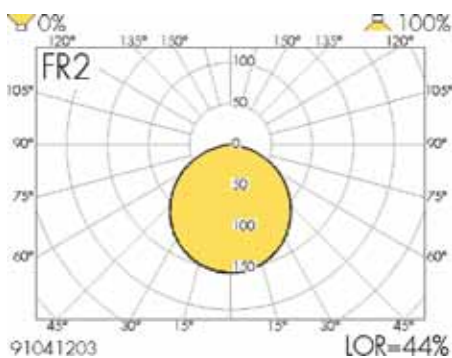
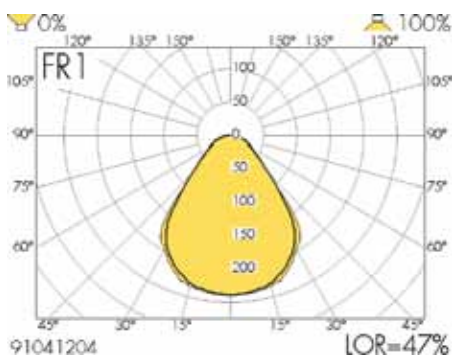
Part No.

Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Ballast, 3X17/32W, 120-277V/50-60Hz	991006
Ballast, 4X17/32W, 120-277V/50-60Hz	991054
Lampholder, 17/32W, G13, White, (4 pcs)	992001
Battery Backup Unit, 90 Minute, 120-277V	991036
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Diffuser (including frame), FR1, 17W Double Prismatic	993035
Diffuser (including frame), FR2, 17W Opal	993036
Diffuser (including frame), FR3, 17W White Plastic Grid	993037
Diffuser (including frame), FR4, 17W Metallised Silver Grid	993038
Diffuser (including frame), FR1, 32W Double Prismatic	993039
Diffuser (including frame), FR2, 32W Opal	993040
Diffuser (including frame), FR3, 32W White Plastic Grid	993041
Diffuser (including frame), FR4, 32W Metallised Silver Grid	993042

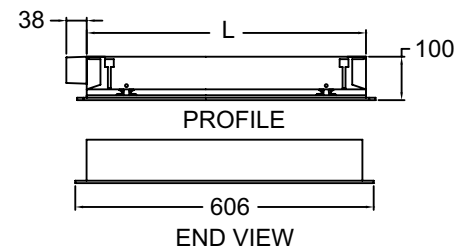
Accessories

Part No.

Mounting Bracket RT (1 set)	995082
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035



BOTTOM VIEW



All Dimensions in mm

DLT RT (CM) 600 FR

Interior Luminaire, Recessed



- Easy installation
- Wide range of optical systems
- For use in 600mm clip-in tile ceiling systems

Application

Interior, recessed mounted.

Approvals

UL 1598 & 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Aluminum extrusion frame with a selection of different acrylic diffuser materials.

FR1: Double prismatic acrylic panel,
FR2: Acrylic opal panel,
FR3: White acrylic grid,
FR4: Metallised acrylic grid in silver,
FR5: Double prismatic polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One ½" knockout in each end and back, others upon request.



Lamp base

G13

Light source (not included)

Fluorescent lamp; 17W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

Designed for use in a 600mm "clip-in" tile ceiling system.

Dimming

Optional dimming ballast available upon request.

Product	Part No. FR1 DIFFUSER 120-277V/50-60Hz	Part No. FR2 DIFFUSER 120-277V/50-60Hz	Part No. FR3 DIFFUSER 120-277V/50-60Hz	Part No. FR4 DIFFUSER 120-277V/50-60Hz	Weight kg	Lamp Code	Lamp Base
DLT RT (CM) 600 FR 2X17W	DLT 5300	DLT 5306	DLT 5312	DLT 5318	6,5	F17/T8	G13
DLT RT (CM) 600 FR 2X17W with Battery Backup	DLT 5303	DLT 5309	DLT 5315	DLT 5321	6,5	F17/T8	G13
DLT RT (CM) 600 FR 3X17W	DLT 5301	DLT 5307	DLT 5313	DLT 5319	6,5	F17/T8	G13
DLT RT (CM) 600 FR 3X17W with Battery Backup	DLT 5304	DLT 5310	DLT 5316	DLT 5322	6,5	F17/T8	G13
DLT RT (CM) 600 FR 4X17W	DLT 5302	DLT 5308	DLT 5314	DLT 5320	6,5	F17/T8	G13
DLT RT (CM) 600 FR 4X17W with Battery Backup	DLT 5305	DLT 5311	DLT 5317	DLT 5323	6,5	F17/T8	G13
Spare Parts	Part No.						
Ballast, 2X17W, 120-277V/50-60Hz	991003						
Ballast, 3X17W, 120-277V/50-60Hz	991006						
Ballast, 4X17W, 120-277V/50-60Hz	991054						

Spare Parts

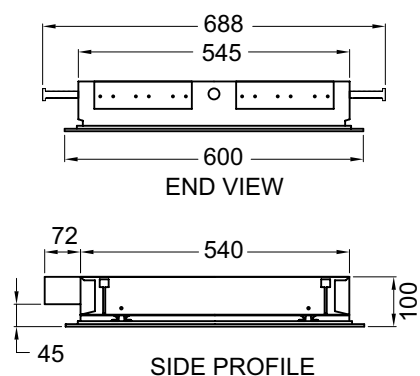
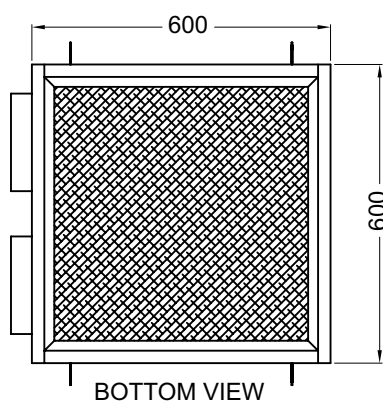
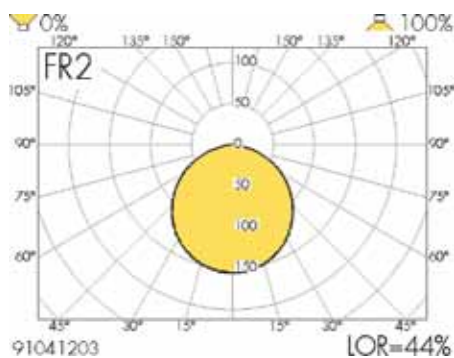
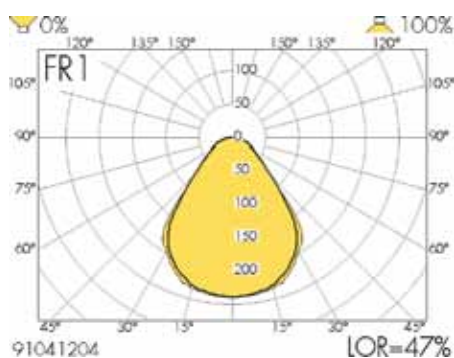
Part No.

Lampholder, 17W, G13, White, (4 pcs)	992001
Battery Backup Unit, 90 Minute, 120-277V	991036
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Diffuser (including frame), FR1, 17W Double Prismatic	993117
Diffuser (including frame), FR2, 17W Opal	993119
Diffuser (including frame), FR3, 17W White Plastic Grid	993120
Diffuser (including frame), FR4, 17W Metallised Silver Grid	993121

Accessories

Part No.

Mounting Bracket RT (1 set)	995082
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035



All Dimensions in mm

- Easy installation
- Ingress protection IP44
- For recess in solid ceilings

Application

Cabins, corridors, galleys, pantries, etc.

Approvals

UL 1598 & 1598A

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear prismatic acrylic diffuser, others upon request.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others upon request.

Lamp base

G13

Light source(not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

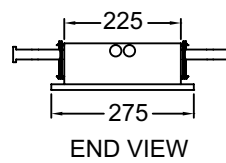
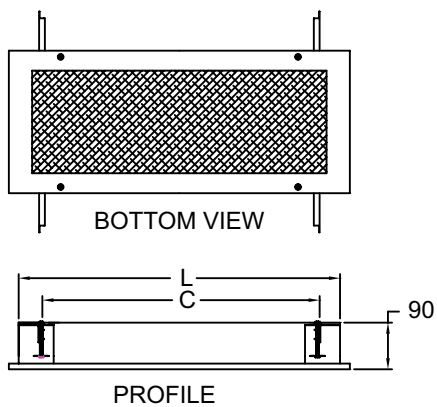
Recessed in solid ceiling, swing out brackets for easy adjustment.

Dimming

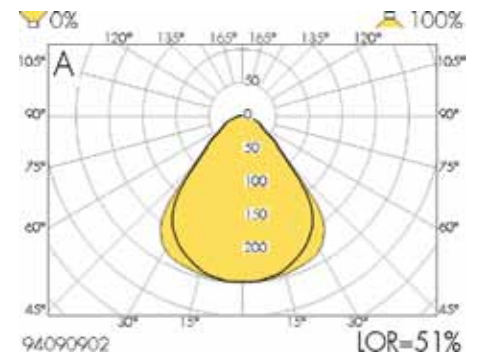
Optional dimming ballast available upon request.



Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GIM 2X17W	GIM 1037	620	533	4,8	F17/T8	G13
GIM 2X17W with Battery Backup	GIM 1039	620	533	6,2	F17/T8	G13
GIM 2X32W	GIM 1038	1233	1143	9,7	F32/T8	G13
GIM 2X32W with Battery Backup	GIM 1040	1233	1143	11,0	F32/T8	G13
Spare Parts	Part No.					
Ballast, 2X17/32W, 120-277V/50-60Hz	991003					
Lampholder, 17/32W, G13, White, (4 pcs)	992001					
Battery Backup Unit, 90 Minute, 120-277V	991036					
Lamp, 17W/T8, Bi-Pin, Cool White	994000					
Lamp, 32W/T8, Bi-Pin, Cool White	994002					
Diffuser, 2X17W, Acrylic, Including Frame	993075					
Diffuser, 2X32W, Acrylic, Including Frame	993076					
Accessories	Part No.					
Diffuser, 2X17W, Acrylic, Including Stainless Steel Frame	993089					
Diffuser, 2X32W, Acrylic, Including Stainless Steel Frame	993090					
Red Lamp Sleeve, 17W/T8	995034					
Red Lamp Sleeve, 32W/T8	995035					



All Dimensions in mm



- Easy installation
- Ingress protection IP44
- For recess in 300mm linear tile ceilings

Application

Cabins, corridors, galleys, pantries etc.

Approvals

UL 1598 & 1598A

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear prismatic acrylic diffuser, others upon request.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others upon request.

Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

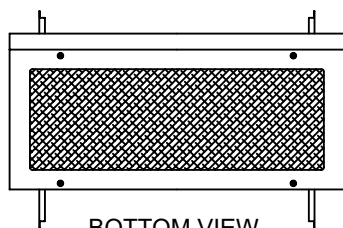
Recessed in 300mm linear tiled ceiling, swing out brackets for easy adjustment.

Dimming

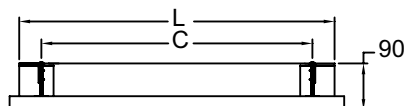
Optional dimming ballast available upon request.



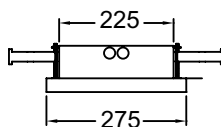
Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GIM M300 2X17W	GIM 1041	620	533	4,8	F17/T8	G13
GIM M300 2X17W with Battery Backup	GIM 1043	620	533	6,2	F17/T8	G13
GIM M300 2X32W	GIM 1042	1233	1143	9,7	F32/T8	G13
GIM M300 2X32W with Battery Backup	GIM 1044	1233	1143	11,0	F32/T8	G13
Spare Parts		Part No.				
Ballast, 2X17/32W, 120-277V/50-60Hz		991003				
Lampholder, 17/32W, G13, White, (4 pcs)		992001				
Battery Backup Unit, 90 Minute, 120-277V		991036				
Lamp, 17W/T8, Bi-Pin, Cool White		994000				
Lamp, 32W/T8, Bi-Pin, Cool White		994002				
Diffuser, 2X17W, Acrylic, Including Frame		993077				
Diffuser, 2X32W, Acrylic, Including Frame		993078				
Accessories		Part No.				
Diffuser, 2X17W, Acrylic, Including Stainless Steel Frame		993091				
Diffuser, 2X32W, Acrylic, Including Stainless Steel Frame		993092				
Red Lamp Sleeve, 17W/T8		995034				
Red Lamp Sleeve, 32W/T8		995035				



BOTTOM VIEW

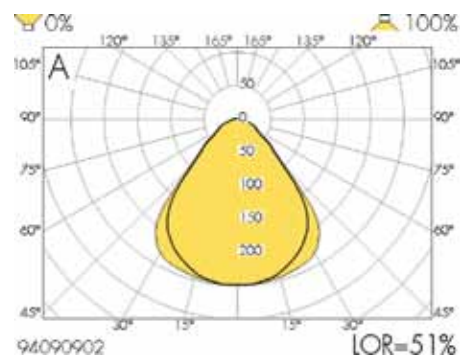


PROFILE



END VIEW

All Dimensions in mm



GIM RT 600

Interior Luminaire, Recessed



- Easy installation
- Ingress protection IP44
- For use in 600mm inverted T-Bar

Application

Cabins, corridors, galleys, pantries etc.

Approvals

UL 1598 & 1598A

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear prismatic acrylic diffuser, others upon request.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others upon request.

Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

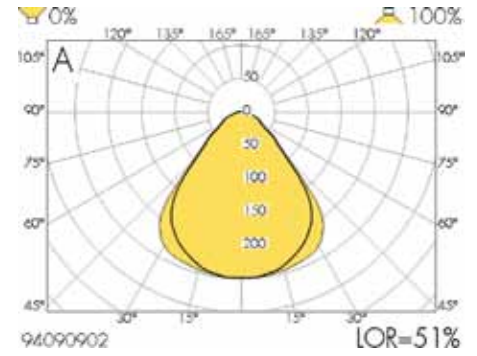
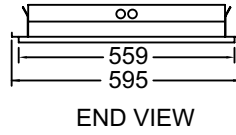
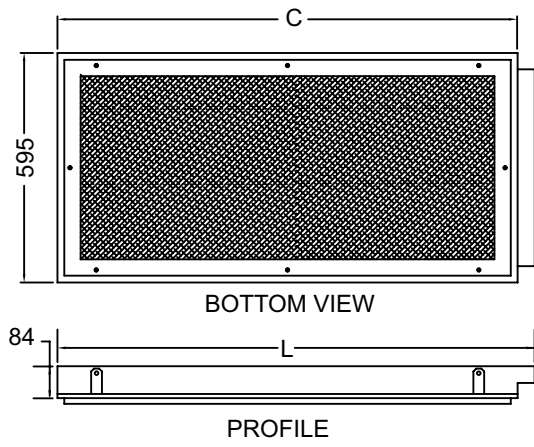
Designed for 600mm inverted T-bar ceiling.

Dimming

Optional dimming ballast available upon request.



Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GIM RT 600 2X17W	GIM 3012	640	595	8,0	F17/T8	G13
GIM RT 600 2X17W with Battery Backup	GIM 3030	640	595	9,3	F17/T8	G13
GIM RT 600 3X17W	GIM 3013	640	595	9,0	F17/T8	G13
GIM RT 600 3X17W with Battery Backup	GIM 3031	640	595	10,3	F17/T8	G13
GIM RT 600 4X17W	GIM 3014	640	595	9,0	F17/T8	G13
GIM RT 600 4X17W with Battery Backup	GIM 3032	640	595	10,3	F17/T8	G13
GIM RT 600 2X32W	GIM 3015	1240	1195	11,6	F32/T8	G13
GIM RT 600 2X32W with Battery Backup	GIM 3033	1240	1195	12,9	F32/T8	G13
GIM RT 600 3X32W	GIM 3016	1240	1195	12,5	F32/T8	G13
GIM RT 600 3X32W with Battery Backup	GIM 3034	1240	1195	13,8	F32/T8	G13
GIM RT 600 4X32W	GIM 3017	1240	1195	12,5	F32/T8	G13
GIM RT 600 4X32W with Battery Backup	GIM 3035	1240	1195	13,8	F32/T8	G13
Spare Parts		Part No.				
Ballast, 2X17/32W, 120-277V/50-60Hz		991003				
Ballast, 3X17/32W, 120-277V/50-60Hz		991006				
Lampholder, 17/32W, G13, White, (4 pcs)		992001				
Battery Backup Unit, 90 Minute, 120-277V		991036				
Lamp, 17W/T8, Bi-Pin, Cool White		994000				
Lamp, 32W/T8, Bi-Pin, Cool White		994002				
Diffuser, 17W, Acrylic, Including Frame		993096				
Diffuser, 32W, Acrylic, Including Frame		993097				
Accessories		Part No.				
Red Lamp Sleeve, 17W/T8		995034				
Red Lamp Sleeve, 32W/T8		995035				



All Dimensions in mm

GIM RT 609

Interior Luminaire, Recessed



- Easy installation
- Ingress protection IP44
- For use in 609mm (24in) inverted T-Bar

Application

Cabins, corridors, galleys, pantries etc.

Approvals

UL 1598 & 1598A

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear prismatic acrylic diffuser, others upon request.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others upon request.



Lamp base

G13

Light source(not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

Designed for 24" / 609mm inverted T-bar ceiling.

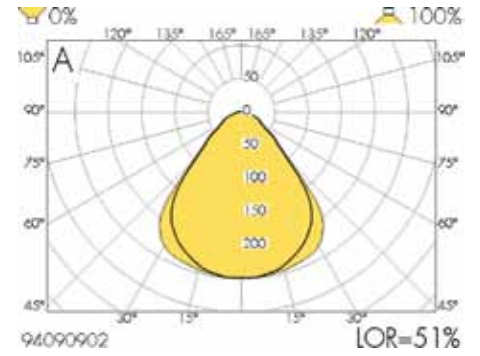
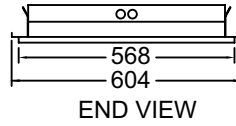
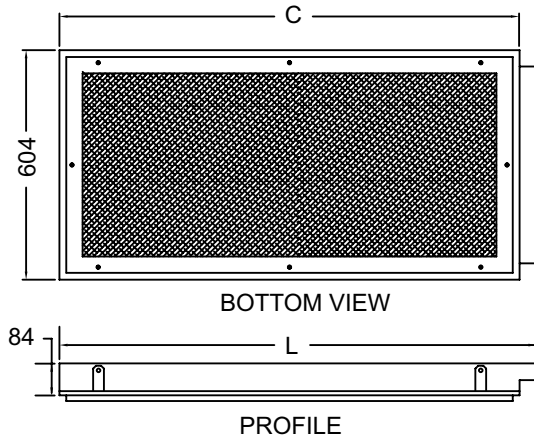
Dimming

Optional dimming ballast available upon request.

Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GIM RT 609 2X17W	GIM 2017	649	604	8,0	F17/T8	G13
GIM RT 609 2X17W with Battery Backup	GIM 2038	649	604	9,3	F17/T8	G13
GIM RT 609 3X17W	GIM 2018	649	604	9,0	F17/T8	G13
GIM RT 609 3X17W with Battery Backup	GIM 2039	649	604	10,3	F17/T8	G13
GIM RT 609 4X17W	GIM 2019	649	604	9,0	F17/T8	G13
GIM RT 609 4X17W with Battery Backup	GIM 2040	649	604	10,3	F17/T8	G13
GIM RT 609 2X32W	GIM 2023	1258	1213	11,6	F32/T8	G13
GIM RT 609 2X32W with Battery Backup	GIM 2044	1258	1213	12,9	F32/T8	G13
GIM RT 609 3X32W	GIM 2024	1258	1213	12,5	F32/T8	G13
GIM RT 609 3X32W with Battery Backup	GIM 2045	1258	1213	13,8	F32/T8	G13
GIM RT 609 4X32W	GIM 2025	1258	1213	12,5	F32/T8	G13
GIM RT 609 4X32W with Battery Backup	GIM 2046	1258	1213	13,8	F32/T8	G13

Accessories	Part No.
Red Lamp Sleeve, 17W/T8	995034
Red Lamp Sleeve, 32W/T8	995035

Spare Parts	Part No.
Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Ballast, 3X17/32W, 120-277V/50-60Hz	991006
Lampholder, 17/32W, G13, White, (4 pcs)	992001
Battery Backup Unit, 90 Minute, 120-277V	991036
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Diffuser, 17W, Acrylic, Including Frame	993095
Diffuser, 32W, Acrylic, Including Frame	993083



All Dimensions in mm

GIM RT (CM) 600

Interior Luminaire, Recessed



- Easy installation
- Ingress protection IP44
- For use in 600mm clip-in tile ceiling systems

Application

Cabins, corridors, galleys, pantries etc.

Approvals

UL 1598 & 1598A

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear prismatic acrylic diffuser, others upon request.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others upon request.

Lamp base

G13

Light source (not included)

Fluorescent lamp; 17W T8 with electronic ballast.

Battery backup

Optional 90-minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge

24 hours.

Mounting

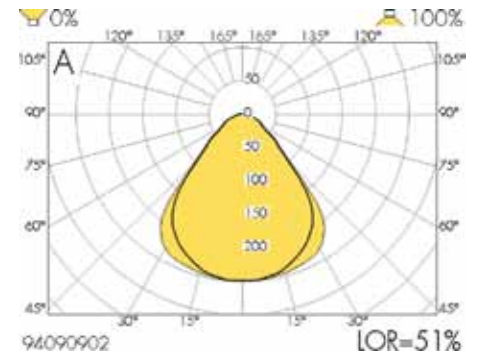
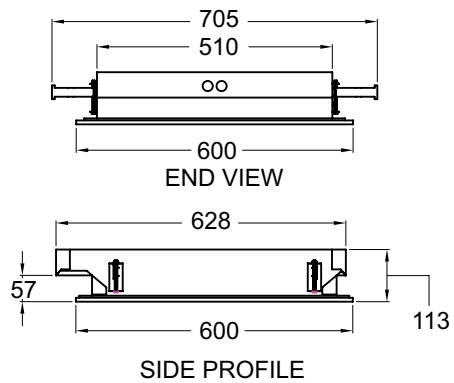
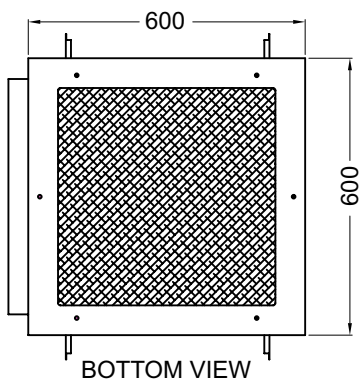
Designed for use in a 600mm "clip-in" tile ceiling system.

Dimming

Optional dimming ballast available upon request.



Product	Part No. 120-277V/50-60Hz	Weight kg	Lamp Code	Lamp Base
GIM RT (CM) 600 2X17W	GIM 3300	8,0	F17/T8	G13
GIM RT (CM) 600 2X17W with Battery Backup	GIM 3303	9,5	F17/T8	G13
GIM RT (CM) 600 3X17W	GIM 3301	8,0	F17/T8	G13
GIM RT (CM) 600 3X17W with Battery Backup	GIM 3304	9,5	F17/T8	G13
GIM RT (CM) 600 4X17W	GIM 3302	8,0	F17/T8	G13
GIM RT (CM) 600 4X17W with Battery Backup	GIM 3305	9,5	F17/T8	G13
Spare Parts	Part No.			
Ballast, 2X17W, 120-277V/50-60Hz	991003			
Ballast, 3X17W, 120-277V/50-60Hz	991006			
Ballast, 4X17W, 120-277V/50-60Hz	991054			
Diffuser, Acrylic, Including Frame	993118			
Battery Backup Unit, 90 Minute, 120-277V	991036			
Lamp, 17W/T8, Bi-Pin, Cool White	994000			
Lampholder, 17W, G13, White, (4 pcs)	992001			
Accessories	Part No.			
Red Lamp Sleeve, 17W/T8	995034			
Red Lamp Sleeve, 32W/T8	995035			



All Dimensions in mm

1961

Galley Luminaire



- Easy to clean
- Low profile design
- For galleys where there is strict hygiene rules

Application

Galleys, pantries, provision stores etc.

Approvals

UL 1598 & 1598A and US Dept. of Public Health.

Protection

IP66

Materials

Stainless steel backplate and aluzinc sheet steel geartray.

Finish

Geartray: epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C.

Cable entry

Two inlets for max. cable diameter of 11mm.

Lamp base

G13



Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

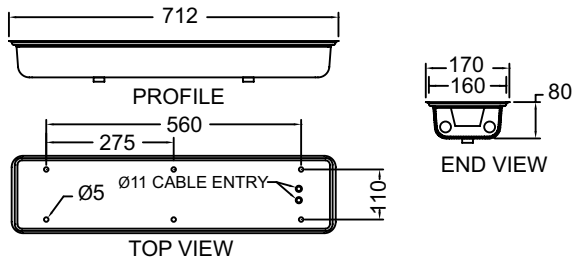
Mounting

Direct to continuously flat ceiling. 6/10 mounting holes, 5mm in diameter.

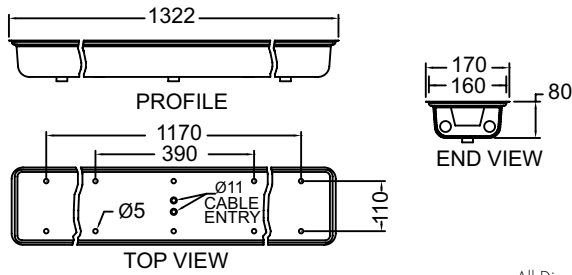
Product	Part No. 120-277V/50-60Hz	Weight kg	Lamp Code	Lamp Base
1961 2X17W	0801009004	3,0	F17/T8	G13
1961 2X32W	0801010002	5,0	F32/T8	G13

Spare Parts	Part No.
Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Lampholder, 17/32W, G13, White, (4 pcs)	992000
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Diffuser, 2X17W, Clear Polycarbonate	993043
Diffuser, 2X32W, Clear Polycarbonate	993044
Lens Screw Kit (6 pcs)	995033
Housing Gasket, 17W	995087
Housing Gasket, 32W	995088

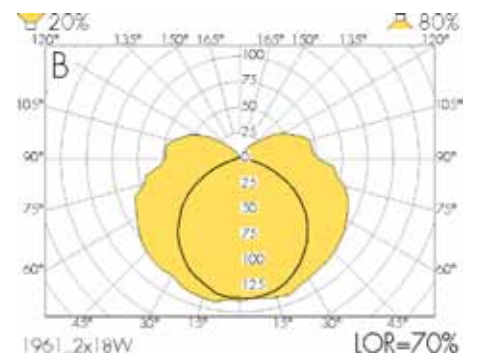
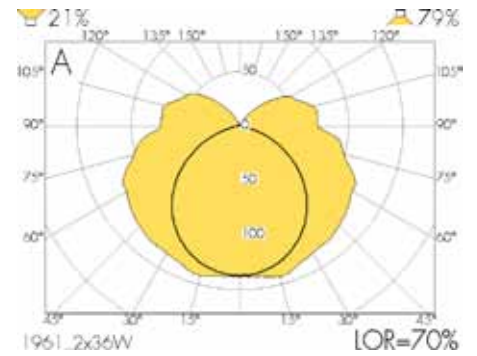
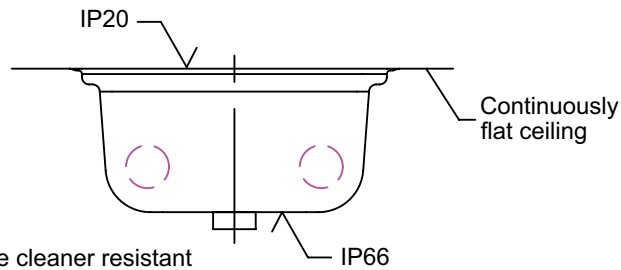
2 x 17W



2 x 32W



All Dimensions in mm



1600

Interior Luminaire, Surface/Semi Recessed



- Surface or semi-recessed
- Smooth design

Application

Accommodation areas, public areas, etc.

Approvals

UL 1598 and 1598A

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear acrylic diffuser with "Ice Crystal" pattern or Opal Polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

Two 1/2" knockouts in each end, others upon request.



Lamp base

G13

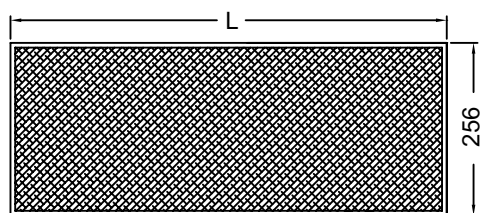
Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

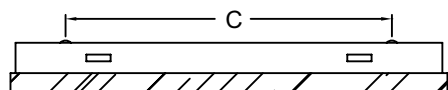
Mounting

Direct to ceiling or semi recessed.

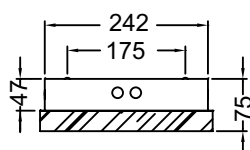
Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
1600 2X17W Ice Crystal Diffuser	1600 1004	648	484	3,7	F17/T8	G13
1600 2X17W Ice Crystal Diffuser with Battery Backup	1600 1012	648	484	4,5	F17/T8	G13
1600 2x17W Opal Polycarbonate Diffuser	1600 1010	648	484	3,7	F17/T8	G13
1600 2x17W Opal Polycarbonate Diffuser with Battery Backup	1600 1014	648	484	4,5	F17/T8	G13
1600 2x32W Ice Crystal Diffuser	1600 1005	1260	1085	6,5	F32/T8	G13
1600 2x32W Ice Crystal Diffuser with Battery Backup	1600 1013	1260	1085	7,3	F32/T8	G13
1600 2x32W Opal Polycarbonate Diffuser	1600 1011	1260	1085	6,5	F32/T8	G13
1600 2x32W Opal Polycarbonate Diffuser with Battery Backup	1600 1015	1260	1085	7,3	F32/T8	G13
Spare Parts	Part No.					
Ballast, 2X17/32W, 120-277V/50-60Hz	991003					
Lampholder, 17/32W, G13, White, (4 pcs)	992001					
Lamp, 17W/T8, Bi-Pin, Cool White	994000					
Lamp, 32W/T8, Bi-Pin, Cool White	994002					
Diffuser, 2X17W, Opal Polycarbonate	993047					
Diffuser, 2X17W, Ice Crystal	993045					
Diffuser, 2X32W, Opal Polycarbonate	993048					
Diffuser, 2X32W, Ice Crystal	993046					
Diffuser Spring Clip (10 pcs)	995003					
Battery Backup Unit, 90 Minute, 120-277V	991036					



BOTTOM VIEW

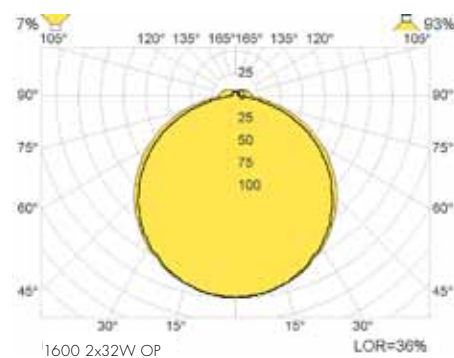
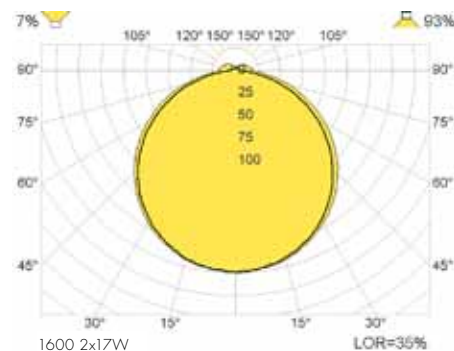


PROFILE



END VIEW

All Dimensions in mm



GKASA

Interior Cornice Luminaire



- Easy installation
- Designed for corridor lighting
- Soft light distribution

Application

Cabins, corridors, restrooms, etc.

Approvals

UL 1598 & 1598A.

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

3mm opal acrylic diffuser attached by endcaps.

Electrics

Flexible wiring, heat resistant to 105°C.

Cable entry

One ½" knockout in back and top, others upon request.

Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.



Battery backup

Optional 90-minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

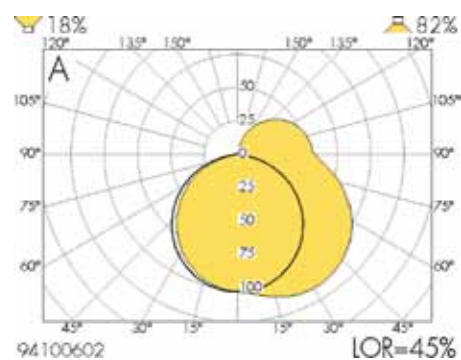
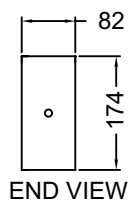
Charge time after full discharge

24 hours.

Mounting

Cornice mounting, direct to ceiling or bulkhead.

Product	Part No. 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GKASA 1X17W	GKASA 1020	640	510	3,3	F17/T8	G13
GKASA 1X17W with Battery Backup	GKASA 1023	640	510	4,7	F17/T8	G13
GKASA 2X17W	GKASA 1013	640	510	3,5	F17/T8	G13
GKASA 2X17W with Battery Backup	GKASA 1025	640	510	4,9	F17/T8	G13
GKASA 1X32W	GKASA 1021	1250	1120	5,4	F32/T8	G13
GKASA 1X32W with Battery Backup	GKASA 1024	1250	1120	6,7	F32/T8	G13
GKASA 2X32W	GKASA 1022	1250	1120	6,1	F32/T8	G13
GKASA 2X32W with Battery Backup	GKASA 1026	1250	1120	7,5	F32/T8	G13
Spare Parts		Part No.				
Ballast, 1X17/32W, 120-277V/50-60Hz		991050				
Ballast, 2X17/32W, 120-277V/50-60Hz		991003				
Battery Backup Unit, 90 Minute, 120-277V		991036				
Lampholder, 17/32W, G13, White, (4 pcs)		992001				
Lamp, 17W/T8, Bi-Pin, Cool White		994000				
Lamp, 32W/T8, Bi-Pin, Cool White		994002				
Diffuser, 17W, Opal		993052				
Diffuser, 32W, Opal		993053				



All Dimensions in mm

GLA

Batten Luminaire



- Slim design
- Continuous mounting

Application

Accommodation areas.

Approvals

CSA C22.2 No.250.0-00

Protection

IP20

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Electrics

Flexible wiring, heat resistant to 105°C.
Through wiring up to 15A.

Cable entry

One 1/2" knockout in each end and back,
others upon request.

Lamp base

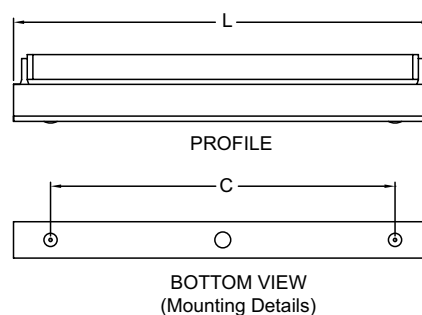
G13

Light source (not included)

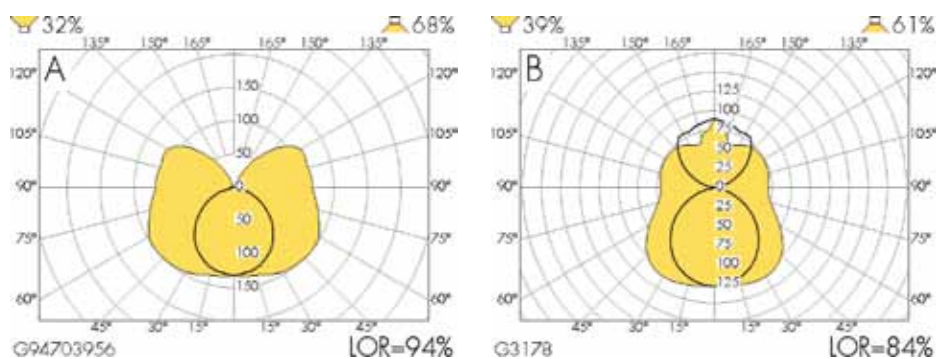
Fluorescent lamp: 17/25/32W T8
with electronic ballast.

Mounting

Direct to ceiling or bulkhead.



All Dimensions in mm



Product	Part No.	L	C	Weight	Lamp Code	Lamp Base
	120-277V/50-60Hz	mm	mm	kg		
GLA 1X17W	GLA 1001	633	521	1,9	F17/T8	G13
GLA 1X25W	GLA 1004	932	820	2,6	F25/T8	G13
GLA 1X32W	GLA 1003	1232	1120	3,1	F17/T8	G13

Spare Parts	Part No.
Ballast, 1X17/25/32W, 120-277V/50-60Hz	991050
Lampholder, 17/25/32W, G13, White, (4 pcs)	992000
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 25W/T8, Bi-Pin, Cool White	994033
Lamp, 32W/T8, Bi-Pin, Cool White	994002

GB2

Berth Light



- Bunk light
- Soft light distribution
- Available with switch and/or receptacle

Application

Mirror and berths.

Approvals

UL 1598 & 1598A and CSA C22.2
No.250.0-00

Protection

IP22

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

3mm opal acrylic diffuser attached by endcaps.

Electrics

Flexible wiring, heat resistant to 105°C.

Cable entry

One 1/2" knockout in back and side, others upon request.

Lamp base

G5

Light source (not included)

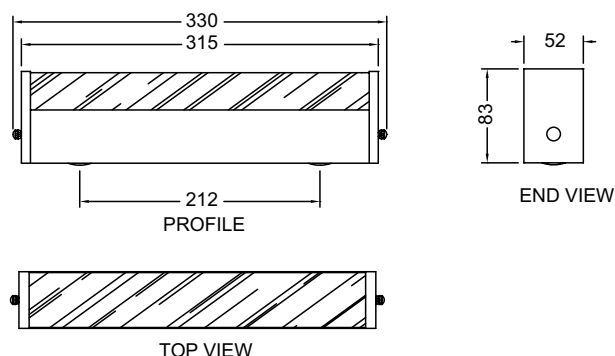
Fluorescent lamp 8W, T5.

Mounting

Direct to ceiling or bulkhead.

Remarks

Optional On/Off switch and convenience receptacle.



All Dimensions in mm

Product	Part No. 120-277V/50-60Hz	Weight kg	Lamp Code	Lamp Base
GB2 1X8W	GB2 1000	1,0	F8/T5	G5
GB2 1X8W S	GB2 1001	1,1	F8/T5	G5
GB2 1X8W U	GB2 1002	1,1	F8/T5	G5
GB2 1X8W SU	GB2 1003	1,2	F8/T5	G5
S=Switch; U=120V Receptacle				
Spare Parts	Part No.			
Ballast, 1X8W, 120V/60Hz	991005			
Starter, 1X8W, F5-5, (2 pcs)	995002			
Lampholder, 8W, G5, White, (4 pcs)	992002			
Lamp, 8W/T5, Min. Bi-Pin, Cool White	994004			
Diffuser, Opal	993049			

GSB

Interior Task Light



- Bunk light/ Mirror light
- Soft light distribution
- Available with switch and/or receptacle

Application

Bathrooms, mirrors, desk, berths, etc.

Approvals

UL 1598 & 1598A and CSA C22.2
No.250.0-00

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

3mm opal acrylic diffuser attached by endcaps.

Electrics

Flexible wiring, heat resistant to 105°C.

Cable entry

One 1/2" knockout in back and side,
others upon request.

Lamp base

G13

Light source (not included)

Fluorescent lamp 15/17W T8 and
140/30BX compact fluorescent lamp.



Mounting

Direct to ceiling or bulkhead.

Remarks

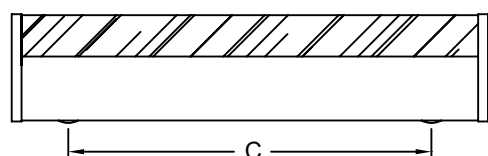
Optional On-Off switch, convenience
receptacle or razor only receptacle with
isolation transformer.



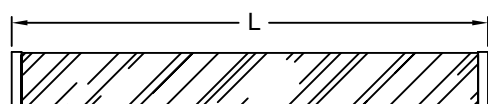
Product	Part No. 120V/60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GSB 1X15W	GSB 1000	484	369	1,7	F15/T8	G13
GSB 1X15W S	GSB 1001	484	369	1,8	F15/T8	G13
GSB 1X15W SU	GSB 1002	484	369	1,9	F15/T8	G13
GSB 1X15W SUI	GSB 1003	484	369	2,2	F15/T8	G13
GSB 1X17W	GSB 1016	634	518	1,9	F17/T8	G13
GSB 1X17W S	GSB 1017	634	518	2,0	F17/T8	G13
GSB 1X17W SU	GSB 1018	634	518	2,1	F17/T8	G13
GSB 1X17W SUI	GSB 1019	634	518	2,4	F17/T8	G13
GSB 1X40W/30BX	GSB 1009	634	518	1,9	F40/30BX	2G11
GSB 1X40W/30BX S	GSB 1010	634	518	2,0	F40/30BX	2G11
GSB 1X40W/30BX SU	GSB 1011	634	518	2,1	F40/30BX	2G11
GSB 1X40W/30BX SUI	GSB 1012	634	518	2,4	F40/30BX	2G11

S=Switch; U=120V Receptacle; I=Razor Only Isolation Transformer

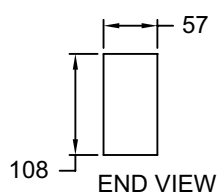
Spare Parts	Part No.
Ballast, 1X15W, 120V/60Hz	991051
Ballast, 1X17W, 120V/60Hz	991051
Ballast, 1X40/30BX, 120V/60Hz	991015
Isolation Transformer, 20VA	995004
Lampholder, 15/17W, G13, White, (4 pcs)	992007
Lampholder, 40/30BX, 2G11, White, (4 pcs)	992008
Lamp, 15W/T8, Bi-Pin, Cool White	994005
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, F40/30BX, 2G11, Cool White	994006
Diffuser, 15W, Opal	993050
Diffuser, 17W & F40/30BX, Opal	993051



PROFILE



TOP VIEW



END VIEW

All Dimensions in mm

1395/ 1854

Decorative Berth Lights



- Adjustable beam by swivelling the reflector
- Compact decorative bunk light

Application

Incandescent or compact fluorescent light for bunks or as a reading light, etc.

Approvals

UL 1598 & 1598A.

Protection

IP20

Housing

Polycarbonate. Available in brown or white.

Reflector

Adjustable, mat stainless steel, interior epoxy powder coated, white RAL 9016.

Electrics

Flexible wiring, heat resistant.

Cable entry

Opening on rear side, dia. 12x30mm.

Lamp base

1395: Medium screw base ;
1854: G23.



Light source (not included)

1395: 40W incandescent, medium screw base;
1854: 7W compact fluorescent lamp, G23 base.

Mounting

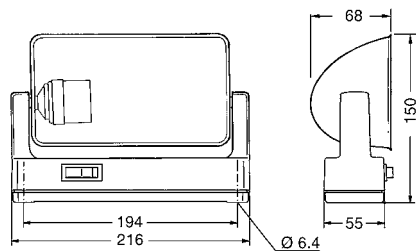
Direct to bulkhead.

Remarks

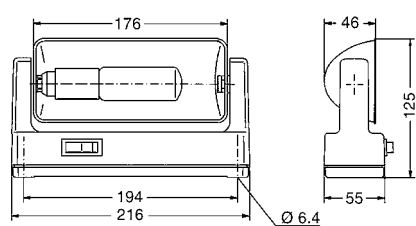
Supplied with integral On-Off switch.

Product	Part No. White	Part No. Brown	Weight kg	Lamp Code	Lamp Base
1395 1X40W Incandescent - Max. 277V	1395102	1395002	1,2	A19	Med Screw Base
1854 1X7W Compact Fluorescent - 120V/60HZ	1854102	1854100	1,1	CFT7W/G23	G23
Spare Parts	Part No.				
Ballast, 1854, 7W, 120V/60Hz	991008				
Lampholder Base, 1854 (4 pcs)	992009				
Lampholder, 1854, G23 Fluorescent (4 pcs)	992010				
Lampholder, 1395, Medium Screw Base (4 pcs)	992011				
Lamp, 1854, 7W Compact Fluorescent	994007				
Lamp, 1395, 40W Incandescent	994008				
Switch, 1395 & 1854, Double Pole	995005				

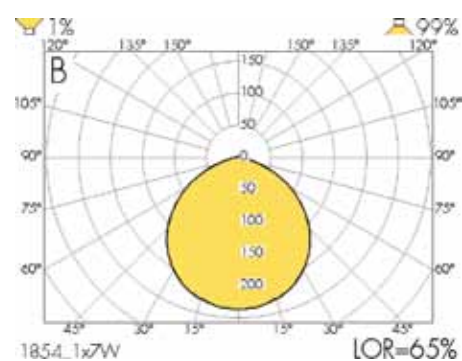
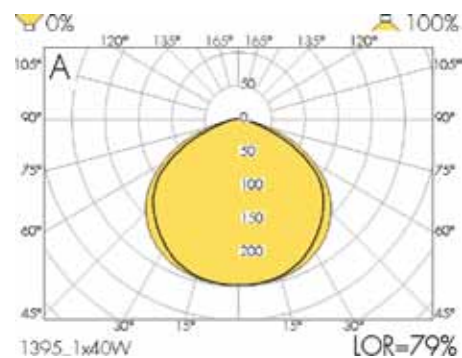
1395



1854



All Dimensions in mm



1350-402

Wall and Table Light

- Can be fixed mounted to desk or wall
- Fabric shade

Application

Accommodation areas

Design

According to rules of maritime classification societies, additional VDE and IEC/EN.

Protection

IP20

Housing

Polycarbonate, dark brown.

Shaft of luminaire

Brass polished and clear lacquered.

Shade

(must be ordered separately)

Made of fabric, champagne color.

Electric

Flexible wiring, silicone insulated, heat resistant up to 180°C, 1-way d.p. switch, 2 m connection cable with plug.

Lamp base

E 26



Light source (not included)

Incandescent lamp 60W

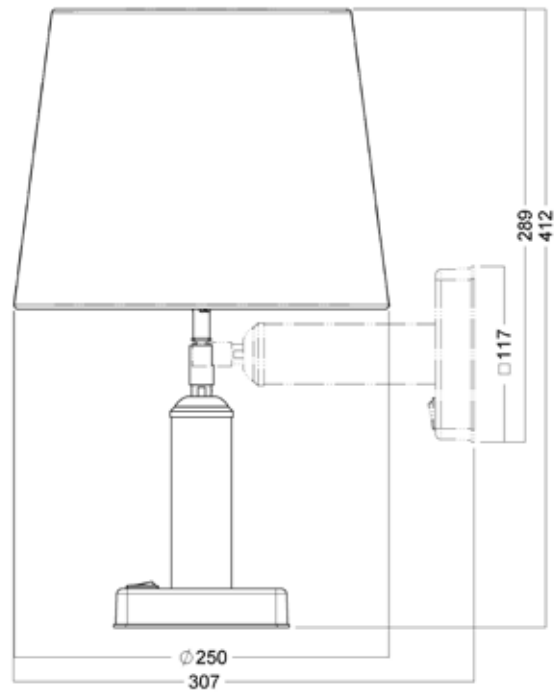
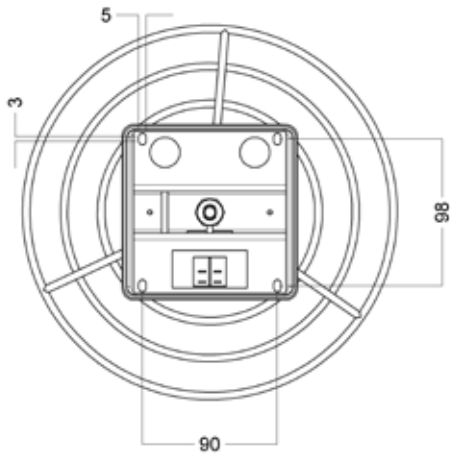
Mounting

4 mounting holes, dia. 5 mm

Remarks

Other shade and base colours on request.

Product	Part No.	Weight kg	Lamp Code	Lamp Base
1350-402 without shade	1350402	0,9	A19	E26
Champagne Shade	CI0207			







CASA MARINE
Page 58



DL100 BO
Page 60

Downlights

CASA MARINE	58
DL100 BO.....	60

Recessed Downlight, Fluorescent



- Wide range of decorative trims
- Low profile
- IP45 with lensed trim ring

Applications

Interior recessed downlight for use in insulated ceilings or uninsulated ceilings.

Approvals

UL1598 and 1598A for insulated ceiling applications

Housing

Aluzinc sheet steel, deep drawn.

Finish

Epoxy powder coated, white.

Electrics

Flexible wiring, heat resistant to 105°C.

Reflector

Silver or gold.

Cable entry

Two 1/2" entries, one blind plug.

Lamp base

18W GX24-q2

Light source (not included)

Compact fluorescent lamp; 18W.

Mounting

Secured to ceiling with screws in flange. Weight distribution panel available on request.

Trim ring

See table for ordering information. Please order trim rings separately.



Acrylic Diffuser



Baffle



IP45 Diffuser



Trim Ring

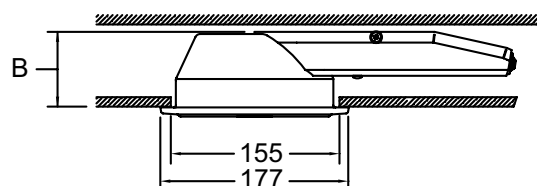
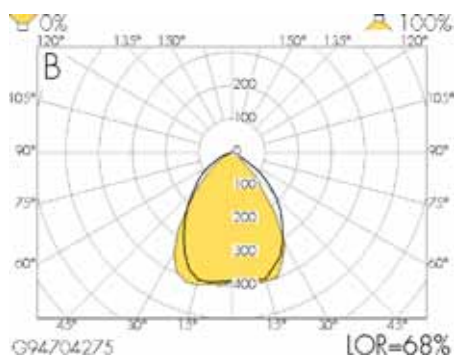
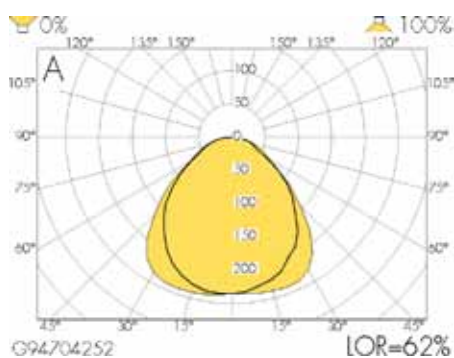
Product	Part No. 120-277V/50-60Hz	B mm	Weight kg	Lamp Code	Lamp Base
CASA MARINE 1X18W (H70) with Silver Cone	0702002007	70	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H70) with Silver Cone, Dimmable	0702002010	70	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H70) with Silver Reflector	0702002008	70	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H70) with Silver Reflector, Dimmable	0702002011	70	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H70) with Gold Reflector	0702002009	70	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H70) with Gold Reflector, Dimmable	0702002012	70	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H95) with Silver Cone	0702004006	95	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H95) with Silver Cone, Dimmable	0702004009	95	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H95) with Silver Reflector	0702004007	95	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H95) with Silver Reflector, Dimmable	0702004010	95	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H95) with Gold Reflector	0702004008	95	1,3	CFQ18W	G24q-2
CASA MARINE 1X18W (H95) with Gold Reflector, Dimmable	0702004011	95	1,3	CFQ18W	G24q-2

Spare Parts

	Part No.
Ballast, 1X18W, 120-277V/50-60Hz	991056
Ballast, 1X18W, 120-277V/50-60Hz, Dimmable	991023
Lampholder, 18W, G24q-2, White, (4 pcs)	992013
Lamp, 18W Double Biax, 4 pin, G24q-2 Base	994010

Accessories

	Part No.
Trim Ring - White	0702990001
Trim Ring - Brass	0702990002
Trim Ring - Chrome	0702990003
Trim Ring - White Galvanized	0702990004
Trim Ring - Brushed Aluminum	0702990005
Acrylic Diffuser - Clear	0702990009
IP45 Diffuser - Clear, White Ring	0702990010
IP45 Diffuser - Clear, Brass Ring	0702990011
IP45 Diffuser - Clear, Chrome Ring	0702990012
IP45 Diffuser - Clear, Brushed Aluminum Ring	0702990013
IP45 Diffuser - Opal, White Ring	0702990014
IP45 Diffuser - Opal, Brass Ring	0702990015
IP45 Diffuser - Opal, Chrome Ring	0702990016
IP45 Diffuser - Opal, Brushed Aluminum Ring	0702990017
IP45 Diffuser - Red, White Ring	0702990036
Installation Plaster Ring	0702990034



All Dimensions in mm

DL100 BO

Recessed Downlight, Halogen



- Wide range in decorative trims
- IP45 with lensed trim rings



Application

Interior recessed downlight.

Approvals

UL 1598 & 1598A for insulated ceiling applications.

Housing

Steel, deep drawn, seamless c/w aluzinc sheet steel connection box.

Electrics

Flexible wiring, heat resistant to 250°C.

Cable entry

Two 1/2" entries, one blind plug.

Lamp base

GU 5.3 for 50W/12V version, GZ 10 for 50W/120V version.

Light source (not included)

50W/12V or 50W/120V halogen lamp.

Mounting

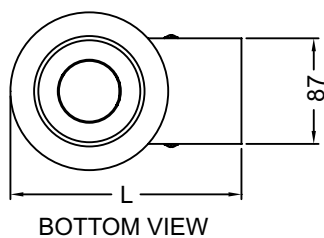
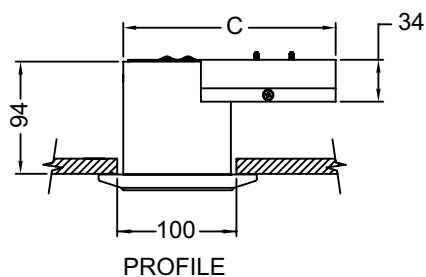
Secured to ceiling with screws in flange.

Trim ring

See table for ordering information. Please order trim rings separately.

Product	Part No. 120V/60Hz-HPF	L mm	C mm	Weight kg	Lamp Base
DL100 BO 50W Straight	0701001000	190	175	1,0	GZ10
DL100 BO 50W Fixed 30 Degree	0701001001	190	175	1,0	GZ10
DL100 BO 50W Straight with Integral Transformer	0701002000	219	204	1,2	GU5.3
DL100 BO 50W Fixed 30 Degree with Integral Transformer	0701002001	219	204	1,2	GU5.3
Spare Parts	Part No.				
Transformer, 120/12V, ET-60, Electronic	995006				
Lampholder, Halogen, GU 5.3 (4 pcs)	992014				
Lampholder, Halogen, GZ 10 (4 pcs)	992015				
Lamp, 50W Halogen, GU 5.3, 12V, Cool Beam	994013				
Lamp, 50W Halogen, GU 5.3, 12V, Alu Reflector	994014				
Lamp, 50W Halogen, GZ 10, 120V, Cool Beam	994015				
Lamp, 50W Halogen, GZ 10, 120V, Alu Reflector	994016				

Accessories	Part No. Straight	Part No. Fixed 30°
Trim ring white IP20	0701990001	
Trim ring brass IP20	0701990002	
Trim ring chrome IP20	0701990003	
Trim ring brushed steel IP20	0701990004	
Trim ring white with frosted glass	0701990020	
Trim ring brass with frosted glass	0701990021	
Trim ring chrome with frosted glass	0701990022	
Trim ring brushed steel with frosted glass	0701990023	
Trim ring white with silver grey cone	0701990005	
Trim ring brass with gold cone	0701990006	
Trim ring chrome with silver grey cone	0701990007	
Trim ring brushed steel with silver grey cone	0701990025	
Trim ring white with angled silver grey cone		0701990010
Trim ring brass with angled gold cone		0701990011
Trim ring chrome with angled silver grey cone		0701990012
Trim ring brushed steel with angled silver grey cone		0701990024
Trim ring with glass, white IP44	0701990016	
Trim ring with glass, brass IP44	0701990017	
Trim ring with glass, chrome IP44	0701990018	
Trim ring with glass, brushed steel IP44	0701990019	
Glass décor with white trim ring	0701990026	
Glass décor with brass trim ring	0701990027	
Glass décor blue	0701990028	
Décor rings white	0701990029	
Décor rings brass	0701990030	
Décor rings brushed steel	0701990031	
Load bearing frame	0701990032	



All Dimensions in mm





GFI
Page 64



0633
Page 66

Illuminated Signs

GFI	64
0633	66

- Low profile 2" high lettering
- Custom signs available
- Also provides down light

Application

Interior surface mounted illuminated sign.

Approvals

UL 1598 & 1598A and UL 924. Sign as per USCG requirements.

Protection

IP44

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Sign

Polycarbonate plate, 2 in. high red letters with a white background.
All relevant signs are available, please order separately.

Electrics

Flexible wiring, heat resistant to 105°C.

Cable entry

One M20 cable gland included.

Lamp base

G5 (8W) or G13 (17W)



Light source (not included)

Fluorescent lamp: 8W/T5 or 17W/T8.

Mounting

Directly to ceiling or bulkhead.

Product	Part No. 120V/60Hz-HPF	L mm	B mm	Weight kg	Lamp Code	Lamp Base
GFI 9X34 108 EN KW	GFI 1002	358	111	1,4	F8/T5	G5
GFI 9X62 117 EN KW	GFI 1008	630	111	2,0	F17/T8	G8
GFI 9X34 108 TO KW	GFI 1003	358	111	1,4	F8/T5	G5
GFI 9X62 117 TO KW	GFI 1009	630	111	2,0	F17/T8	G8
GFI 9X34 108 EN PL	GFI 1004	358	111	1,4	F8/T5	G5
GFI 9X62 117 EN PL	GFI 1010	630	111	2,0	F17/T8	G8

EN=One Sided; TO=Two Sided; KW=Ceiling Mounted; PL=Wall Mounted

Spare Parts	Part No.
Ballast, 1X8W, 120V/60Hz	991046
Ballast, 1X17W, 120V/60Hz	991024
Starter, 1X8W, FS-5, (2 pcs)	995002
Lampholder, 8W, G5, White, (4 pcs)	992016
Lampholder, 17W, G13, White, (4 pcs)	992001

Spare Parts

Part No.

Lamp, 8W/T5, Min. Bi-Pin, Cool White

994004

Lamp, 17W/T8, Bi-Pin, Cool White

994000

Accessories

Part No.

Sign, 9X34, Red Letters, White Background; EXIT

GFI 2000

Sign, 9X34, Red Letters, White Background; EXIT>

GFI 2001

Sign, 9X34, Red Letters, White Background; <EXIT

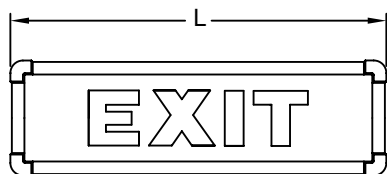
GFI 2002

Sign, 9X34, Red Letters, White Background; <EXIT>

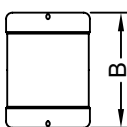
GFI 2003

Sign, 9X62, Red Letters, White Background; EMERGENCY EXIT

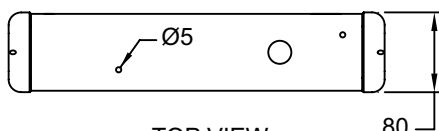
GFI 2008



PROFILE



END VIEW



TOP VIEW

All Dimensions in mm

0633

Illuminated Sign, Recessed



- Low profile 2" high lettering
- Custom signs available
- Semi-recessed

Application

Interior recessed mounted illuminated sign.

Approvals

UL 1598 & 1598A and UL 924 approved.
Sign as per USCG requirements.

Housing

Aluzinc sheet steel or stainless steel.

Finish

Epoxy powder coated, white RAL 9016.

Sign

Polycarbonate, 2 in. high red letters with a white background, single sided or double sided. All relevant signs are available, please order separately.

Light source (not included)

Fluorescent lamp: 8W/T5.

Mounting

Recessed in ceiling.

Electrics

Flexible wiring, heat resistant to 105°C.

Cable entry

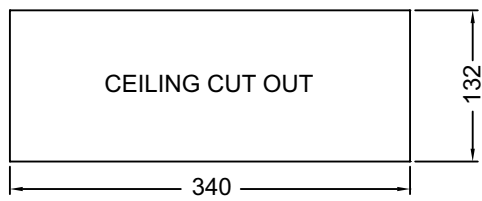
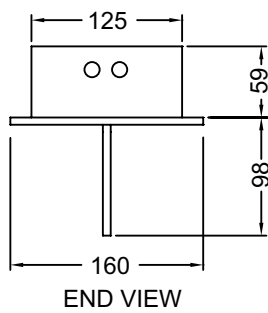
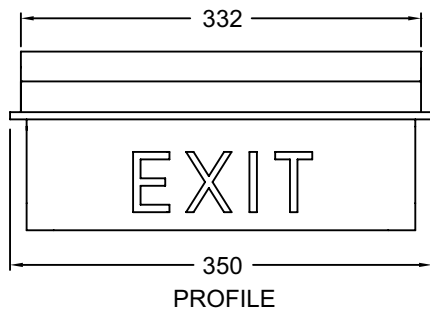
Two 1/2" knockouts in each end.

Lamp base

G5



Product	Part No. 120V/60Hz-HPF	Weight kg	Lamp Code	Lamp Base
0633 White Aluzinc	0803001001	0,9	F8/T5	G5
0633 Stainless Steel (Cover Only, Housing - Aluzinc)	0803001002	0,9	F8/T5	G5
Spare Parts	Part No.			
Ballast, 1X8W, 120V/60Hz	991005			
Starter, 1X8W, F5-5, (2 pcs)	995002			
Lampholder, 8W, G5, White, (4 pcs)	992002			
Lamp, 8W/T5, Min. Bi-Pin, Cool White	994004			
Accessories	Part No.			
Sign, Single Sided, Red Letters, White Background; EXIT	0803001101			
Sign, Double Sided, Red Letters, White Background; EXIT	0803001105			
Sign, Single Sided, Red Letters, White Background; EXIT>	0803001102			
Sign, Double Sided, Red Letters, White Background; EXIT>	0803001106			
Sign, Single Sided, Red Letters, White Background; <EXIT	0803001103			
Sign, Double Sided, Red Letters, White Background; <EXIT	0803001106			
Sign, Single Sided, Red Letters, White Background; <EXIT>	0803001104			
Sign, Double Sided, Red Letters, White Background; <EXIT>	0803001107			



All Dimensions in mm





GXPN
Page 70



1079
Page 72



1833
Page 74



MAX
Page 76



GXPR
Page 78



1069 028-031
Page 80

Hazardous Areas

GXPN 70
1079 72
1833 74
MAX 76
GXPR 78
1069 028-031 80

- Easy maintenance
- High quality marine long life luminaire
- Emergency versions

Application

Hazardous areas: decks, process areas, machinery spaces, etc. Class 1 Division 2 and Class 1 Zone 2.

Approvals

Class I, Division 2, Groups A, B, C, D. UL 844 and UL 924. Temperature code T3B (T3C – 54W version only)

Protection

IP67

Housing

Aluzinc sheet steel or stainless steel, deep drawn, seamless.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One ½" NPT conduit hub and one blind plug at each end. ¾" NPT available upon request.

**Lamp base**

G13

Light source (not included)

17/32W T8, 54W/T5HO

Battery backup

Optional 90 minute battery backup. 500-600 lumens for 90 minutes at 20°C. Other configurations available upon request.

Charge time after full discharge:

24 hours.

Mounting

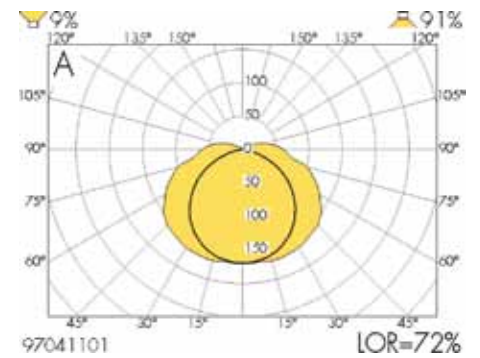
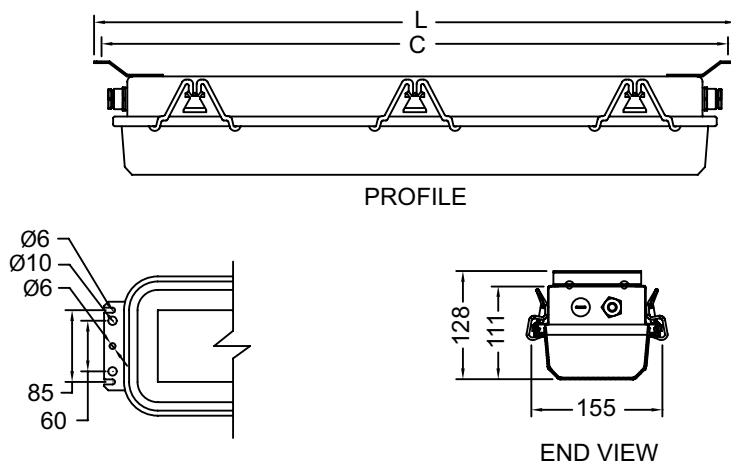
2 fixed brackets for direct mounting to bulkhead or deckhead. Custom mounting brackets are also available.

Remarks

Low temperature ballast is available upon request.

Product	Part No. Aluzinc 120-277V/50-60Hz	Part No. Stainless Steel 120-277V/50-60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
GXPN 2X17W	GXPN 2026	GXPN 2030	724	704	4,1	F17/T8	G13
GXPN 2X17W with Battery Backup	GXPN 2028	GXPN 2032	724	704	5,5	F17/T8	G13
GXPN 2X32W	GXPN 2027	GXPN 2031	1334	1314	8,1	F32/T8	G13
GXPN 2X32W with Battery Backup	GXPN 2029	GXPN 2033	1334	1314	9,5	F32/T8	G13
GXPN 2X54W HO	GXPN 2034	GXPN 2037	1334	1314	8,1	F54/T5HO	G5

Spare Parts	Part No.
Ballast, 2X17/32W, 120-277V/50-60Hz	991003
Ballast, 2X54W, 120-277V/50-60Hz	991053
Diffuser, 2X17W, Clear Polycarbonate	993000
Diffuser, 2X32W, Clear Polycarbonate	993001
Lens Clip, Stainless Steel (4 pcs)	995047
Battery Backup Unit, 90 Minute, 120-277V	991037
Lamp, 17W/T8, Bi-Pin, Cool White	994000
Lamp, 32W/T8, Bi-Pin, Cool White	994002
Lamp, 54W/T5HO, Min. Bi-Pin, Cool White	994040
Lampholder, 17/32W, G13, White, (4 pcs)	992000
Lampholder, 54W, G5, White (4 pcs)	992028
Conduit Hub, 1/2" Zinc (2 pcs)	995007
Blind Plug, M20, Nickel Plated Brass (2 pcs)	995079



All Dimensions in mm

Hazardous Area Luminaire, Surface



- Reinforced polycarbonate diffuser
- Robust design
- 60W High Output fitting

Application

Hazardous areas; Decks, process areas, machinery spaces, etc. Class 1 Division 2 and Class 1 Zone 2.

Approvals

Class I, Division 2, Groups A, B, C, D. UL 844 and UL 924. Temperature code T3C

Protection

IP67

Housing

Aluzinc or stainless steel, deep drawn, seamless.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One 3/4" NPT conduit hub at each end.

Lamp base

Recessed double contact



Light source (not included)

Fluorescent lamp; 60W T12 high output electronic ballast.

Battery backup

Optional 90 minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

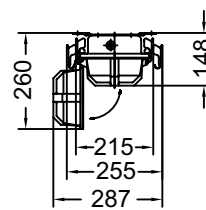
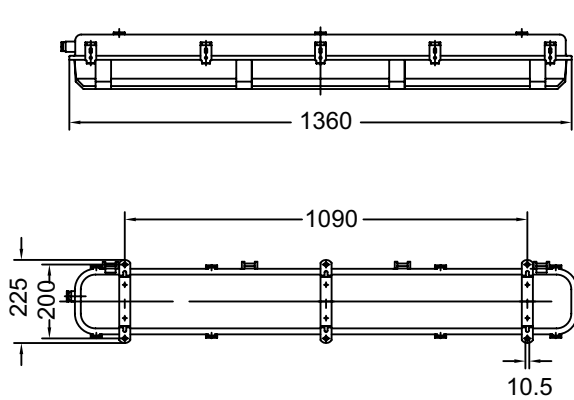
Charge time after full discharge

24 hours.

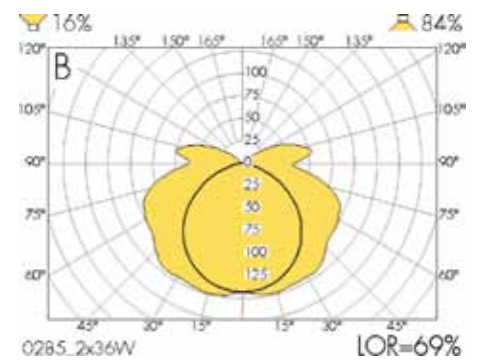
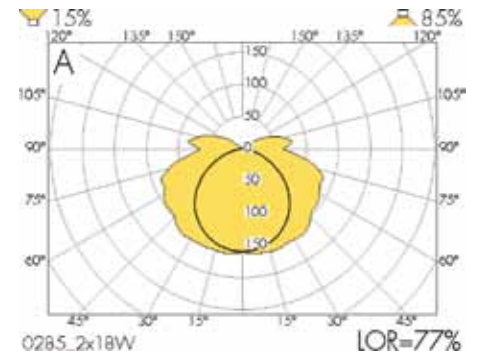
Mounting

2 brackets for direct mounting to bulkhead or deckhead.

Product	Part No. Aluzinc 120-277V/50-60Hz	Part No. Stainless Steel 120-277V/50-60Hz	Weight kg	Lamp Code	Lamp Base
1079 2X60W	1079 1000	1079 1001	10,6	F60/T12	RDC
1079 2X60W with Battery Backup	1079 1002	1079 1003	11,9	F60/T12	RDC
Spare Parts	Part No.				
Ballast, 2X60W HO, 120-277V/50-60Hz	991049				
Diffuser, 2X60W, Clear Polycarbonate	993116				
Battery Backup Unit, 90 Minute, 120-277V	991037				
Lamp, 60W/T12, Recessed DC, Cool White	994036				
Lampholder, 60W HO, Recessed DC, Plunger (2 pcs)	992025				
Lampholder, 60W HO, Recessed DC, Stationary (2 pcs)	992026				
Conduit Hub, 3/4" Zinc Plated Steel (2 pcs)	995072				
Conduit Hub, 3/4" Aluminum (2 pcs)	995073				



All Dimensions in mm



1833

Explosion Proof Luminaire



- Robust design
- Fully removable geartray for easy maintenance
- Tough polycarbonate diffuser

Application

Hazardous areas, Class I, Division 1 and Class 1 Zone 1. Flame proof housing for supreme safety.

Approvals

CSA approved.
Class 1 Division 1 Groups CD T6
Class 1 Zone 1 Exd 11B T6

Protection

IP67

Housing

Corrosion resistant light weight aluminum alloy.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C.
All electrics installed on a fully removable gear tray.

Cable entry

Integral junction box with two 3/4" NPT entries.

Lamp base

G13, spring loaded.



Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90 minute battery backup. 500-600 lumens for 90 minutes at 20°C.



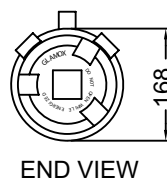
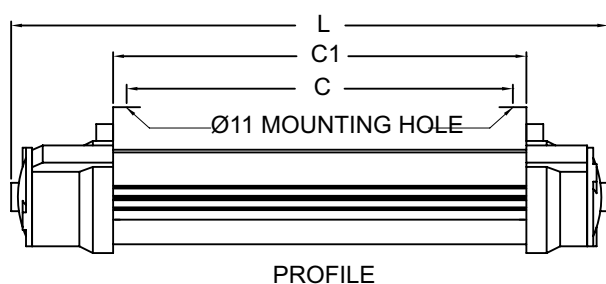
Mounting

Stainless steel mounting brackets.

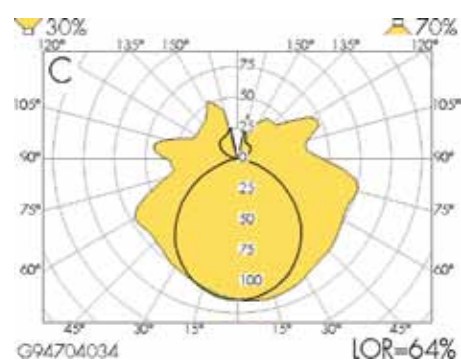
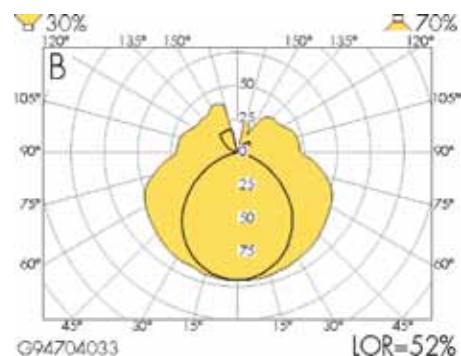
Features

Removable gear tray allows for quick and easy maintenance.

Product	Part No. 120-277V/50-60Hz	L mm	C1 mm	C mm	Weight kg	Lamp Code	Lamp Base
1833 2X17W	1833006002	860	612	560	10,2	F17/T8	G13
1833 2X17W with Battery Backup	1833006004	860	612	560	11,0	F17/T8	G13
1833 2X32W	1833007002	1470	1222	1170	14,0	F32/T8	G13
1833 2X32W with Battery Backup	1833007004	1470	1222	1170	14,8	F32/T8	G13
Spare Parts		Part No.					
Ballast, 2X17/32W, 120-277V/50-60Hz		991003					
Lampholder, 17/32W, G13, White, Spring Loaded (4 pcs)		992003					
Lampholder, 17/32W, G13, White, Stationary (4 pcs)		992004					
Battery Backup Unit, 90 Minute, 120-277V		991036					
Lamp, 17W/T8, Bi-Pin, Cool White		994000					
Lamp, 32W/T8, Bi-Pin, Cool White		994007					



All Dimensions in mm



MAX

High quality Zone 1 Luminaire



- High quality hazardous area luminaire
- Removable geartray for easy maintenance
- External battery box

Application

Hazardous areas: decks, process areas, machinery spaces, etc. Class 1 Zone 1 & 2 areas.

Approvals

CSA approved Class 1, Zone 1
Ex edm IIC - T5 (T4 with battery backup).

Protection

IP67

Housing

Aluzinc sheet steel or stainless steel, deep drawn, seamless.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15A.

Cable entry

Four M20 cable entries, three M20 blind plugs.



Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.



Battery backup

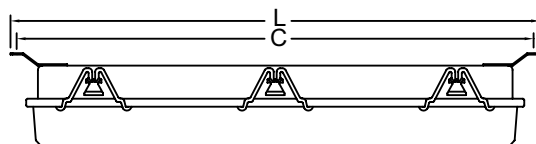
Optional 1.5 hour or 3.0 hour battery backup. Suitable for use in an ambient temperature up to 45°C.

Mounting

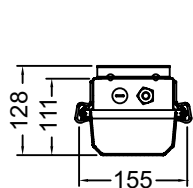
2 brackets for direct mounting to ceiling or bulkhead. Custom mounting brackets are also available.

Product	Part No. Aluzinc 120V/60Hz	Part No. Stainless Steel 120V/60Hz	L mm	C mm	Weight kg	Lamp Code	Lamp Base
MAX 2X17W	MAX 1000	MAX 2000	724	704	4,3	F17/T8	G13
MAX 2X17W with 1.5 Hour Battery Backup	MAX 1002	MAX 2002	859	839	7,9	F17/T8	G13
MAX 2X17W with 3.0 Hour Battery Backup	MAX 1003	MAX 2003	859	839	8,8	F17/T8	G13
MAX 2X32W	MAX 1001	MAX 2001	1334	1314	8,3	F32/T8	G13
MAX 2X32W with 1.5 Hour Battery Backup	MAX 1004	MAX 2004	1470	1450	12,9	F32/T8	G13
MAX 2X32W with 3.0 Hour Battery Backup	MAX 1005	MAX 2005	1470	1450	13,8	F32/T8	G13
Spare Parts							
Ballast, 2X17W, 1X32W, 120V/60Hz	991041						
Ballast, 2X32W, 120V/60Hz	991044						
Emergency Ballast, 1.5 Hour, 120V/60Hz	991042						
Emergency Ballast, 3.0 Hour, 120V/60Hz	991043						
Battery, 1.5 Hour	995045						
Battery, 3.0 Hour	995046						
Lampholder, 17/32W, Exe, Brown (2 pcs)	992022						
Lampholder, 17/32W, Exe, Blue (2 pcs)	992023						
Lamp, 17W/T8, Bi-Pin, Cool White	994000						
Lamp, 32W/T8, Bi-Pin, Cool White	994002						
Lens Clip, Stainless Steel (2 pcs)	995043						
Diffuser, 2X17W, Clear Polycarbonate	993084						
Diffuser, 2X32W, Clear Polycarbonate	993085						

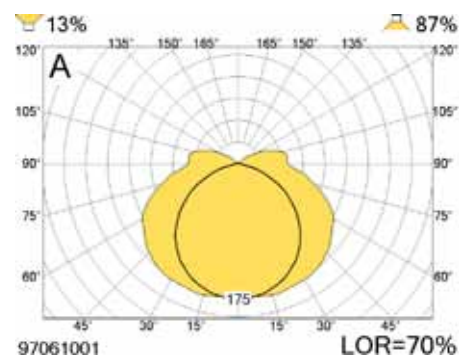
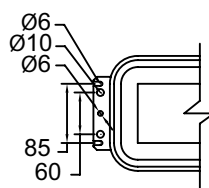
WITHOUT
BATTERY BACKUP



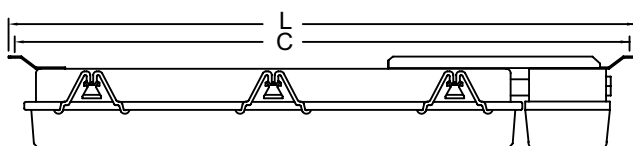
PROFILE



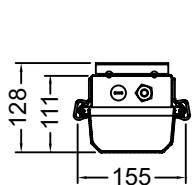
END VIEW



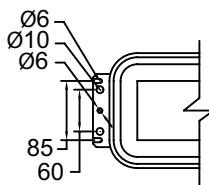
WITH
BATTERY BACKUP



PROFILE



END VIEW



All Dimensions in mm

GXPR

Hazardous Area Luminaire, Recessed



- Recessed type for various ceiling types
- Fully adjustable mounting brackets
- Special version available in Class 1 Zone 1

Application

Hazardous areas; Class 1 Division 2 and Class 1 Zone 2.

Special version for Class 1 Zone 1 also available.

Approvals

Class I, Division 2, Groups A, B, C, D.
UL 844, UL 924, and CSA C22.2 No. 137-M1981.

Protection

IP54

Housing

Aluzinc sheet steel.

Finish

Epoxy powder coated, white RAL 9016.

Diffuser

Clear polycarbonate and clear prismatic diffuser.

Electrics

Flexible wiring, heat resistant to 105°C; through wiring up to 15 A.

Cable entry

One 1/2" NPT conduit hub and one blind plug at each end.



Lamp base

G13

Light source (not included)

Fluorescent lamp; 17/32W T8 with electronic ballast.

Battery backup

Optional 90 minute battery backup.
500-600 lumens for 90 minutes at 20°C.
Other configurations available upon request.

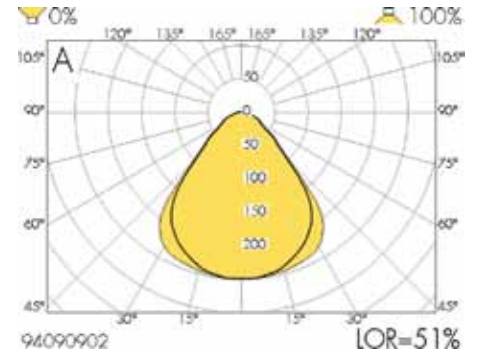
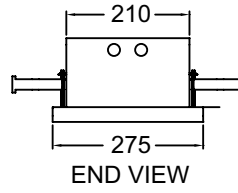
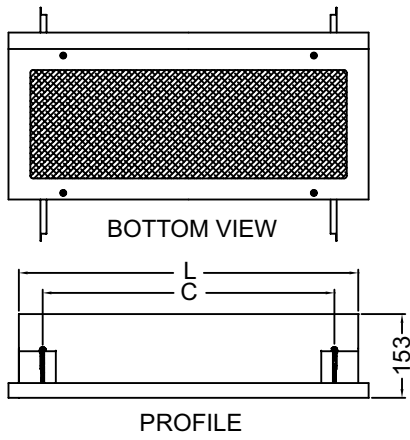
Charge time after full discharge

24 hours.

Mounting

Designed for recessed parallel mounting in a linear interlocking ceiling system (Dampa, Dana Acoustic, BIP, etc.).

Product	Part No. 120-277V/50-60Hz	L mm	B mm	Weight kg	Lamp Code	Lamp Base
GXPR 2X17W	GXPR 1018	697	603	4,8	F17/T8	G13
GXPR 2X17W WITH BATTERY BACKUP	GXPR 1020	697	603	6,2	F17/T8	G13
GXPR 2X32W	GXPR 1019	1305	1213	9,7	F32/T8	G13
GXPR 2X32W with Battery Backup	GXPR 1021	1305	1213	11,0	F32/T8	G13
Spare Parts	Part No.					
Ballast, 2X17/32W, 120-277V/50-60Hz	991003					
Diffuser Including Frame, 2X17W	993079					
Diffuser Including Frame, 2X32W	993080					
Battery Backup Unit, 90 Minute, 120-277V	991037					
Lamp, 17W/T8, Bi-Pin, Cool White	994000					
Lamp, 32W/T8, Bi-Pin, Cool White	994002					
Lampholder, 17/32W, G13, White, (4 pcs)	992000					
Conduit Hub, 1/2" Zinc (2 pcs)	995007					
Blind Plug, Nickel Plated Brass (2 pcs)	995079					



All Dimensions in mm

1069 028-031

Floodlight, 250/400W HPS/MH, Integral Ballast



- Deep drawn seamless steel housing
- High light output
- No tools required to open the housing

Application

Decks and holds, industrial and sport areas

Approvals

Class 1, Division 2, Groups A, B, C, D, T1
UL844 and Class 1 Zone 2

Design

According to rules of maritime classification societies, additional VDE and IEC / EN.

Housing

Stainless steel deep drawn, seamless.

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness.

Pane

Safety glass.

Reflector

Highly polished aluminum, anodized.

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; exterior connection box with ignition unit, ballast is incorporated; terminal 3 - pole / 6mm².

Lamp base

E39



Light sources (Not included)

High pressure sodium lamps (HPS) / metal halide lamps (MH).

Mounting

Two adjustable brackets with 2 mounting holes each, dia. 14 mm.

Cable entry

Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5mm.

Remark

Use lamps from well-known manufacturers only.

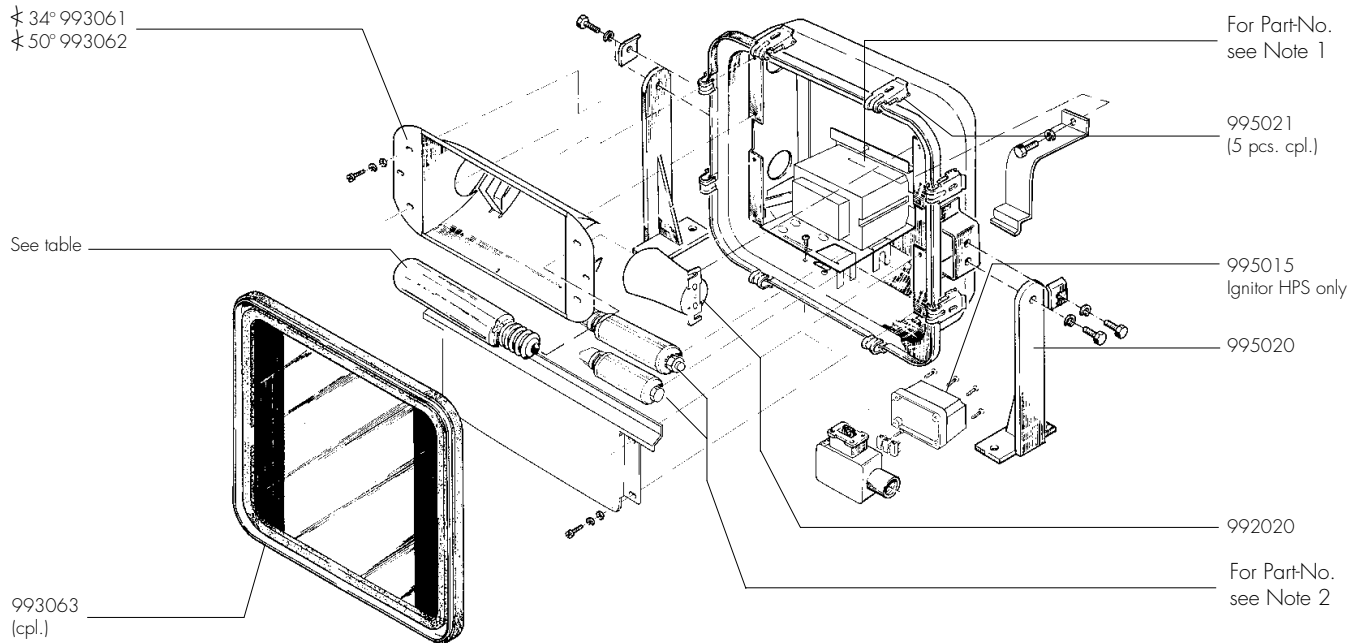
UL844, Cl.1, Div.2, Group A, B, C, D, Cl.1, Zone 2, Temp T1

Product	Part No. 120/208/240/277V 60Hz	Part No. 120/277V 60Hz	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1069 1x250W HPS NB	1069028		20,00	HPS	E39	A
1069 1x250W HPS WB	1069029		20,00	HPS	E39	B
1069 1x400W HPS NB	1069030		21,00	HPS	E39	A
1069 1x400W HPS WB	1069031		21,00	HPS	E39	B
1069 1x250W MH NB		1069028MH	20,00	MH	E39	A
1069 1x250W MH WB		1069029MH	20,00	MH	E39	B
1069 1x400W MH NB	1069030MH		21,00	MH	E39	A
1069 1x400W MH WB	1069031MH		21,00	MH	E39	B

NB = Narrow beam reflector 34° WB = Wide beam reflector 50°

Accessories	Part No.
High Pressure Sodium lamp HPS 250W E39	994025
High Pressure Sodium lamp HPS 400W E39	994026
Metal Halide lamp MH 250W E39	994032
Metal Halide lamp MH 400W E39	994034

Spare Parts/ Accessories

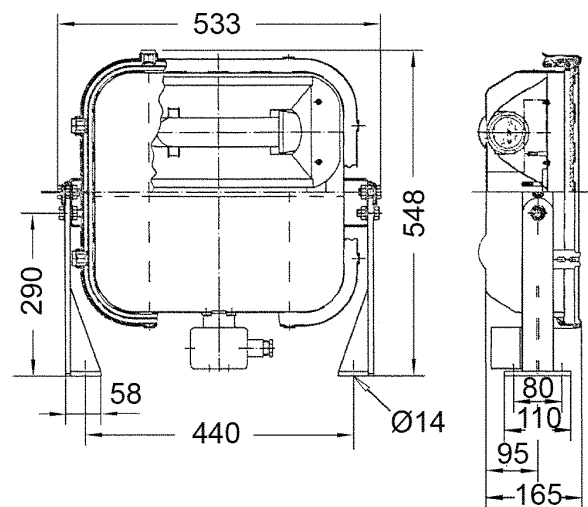
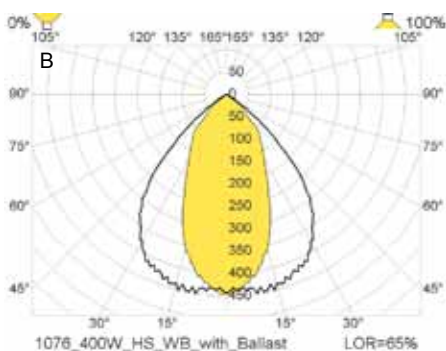
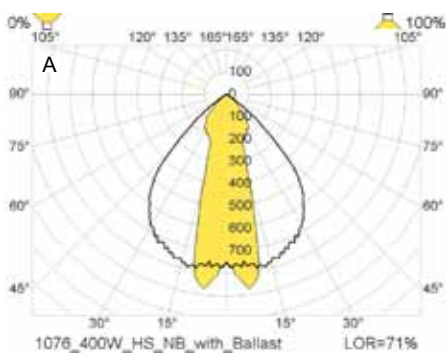


Note 1

991026, 250W HPS
991027, 400W HPS
991038, 250W MH
991039, 400W MH

Note 2

995018, 35 μ f (250W HPS)
995019, 55 μ f (400W HPS)
995039, 15 μ f (250W MH)
995038, 24 μ f (400W MH)



All Dimensions in mm





1076 060
Page 84



1069 040
Page 86



1069
012/015/016/017
Page 88



1069 008/009
Page 90



1069 018-021
Page 92



1069 013/023
Page 94



1513 Series
Page 96

Floodlights

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1069 040	86
1069 012/015/016/017	88
1069 008/009.....	90
1069 018-021.....	92
1069 013/014.....	94
1513 Series.....	96

1076 060

Floodlight, 200W Halogen



- Deep drawn seamless steel housing
- Instant light provided by halogen lamps
- No tools required to open the housing

Application

Yachts, fishing vessels, commercial shipping and industrial areas.

Design

According to rules of maritime classification societies, additional VDE and IEC / EN.

Housing

Stainless steel deep drawn, seamless.

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80µm thickness.

Pane

Safety glass.

Reflector

Highly polished aluminium, anodized.

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; 1.5 m connection cable wired (H07RN-F3G, 3 x 1.5 mm²); terminal 3 - pole / 6mm² internal

Lamp base

R7s Adjustable socket distance 64.2 / 78.3 / 114.2 mm L = 114.2 = standard.

Light sources (not included)

Halogen lamp L 64.2 - 114.2 mm, 100 - 200W.



Mounting

Adjustable bracket with central mounting hole, dia. 14 mm.

Cable entry

Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm.

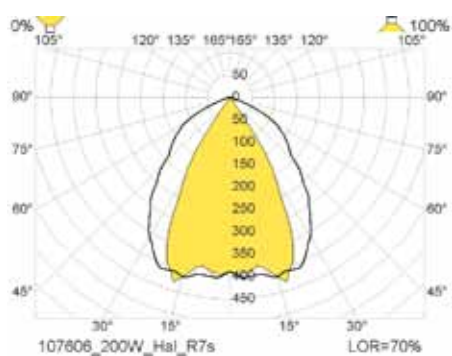
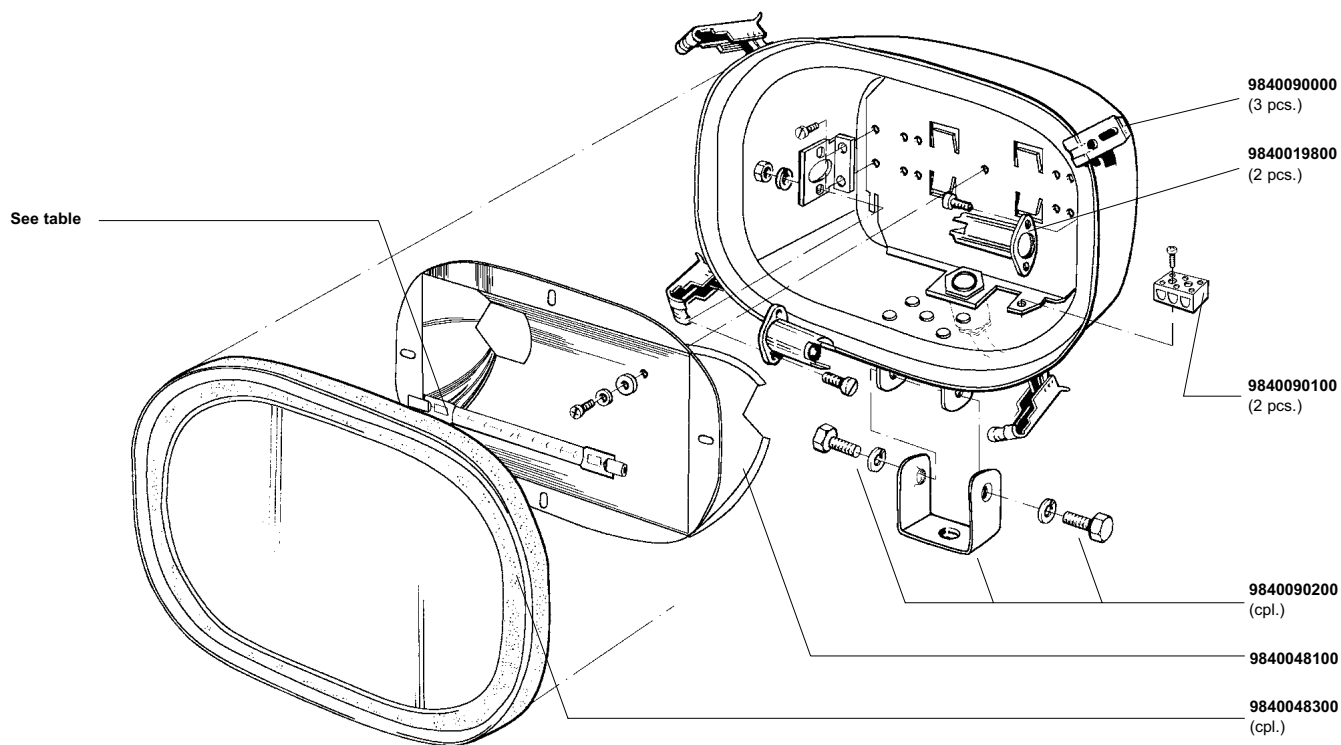
Remark

Use lamps from well-known manufacturers only.

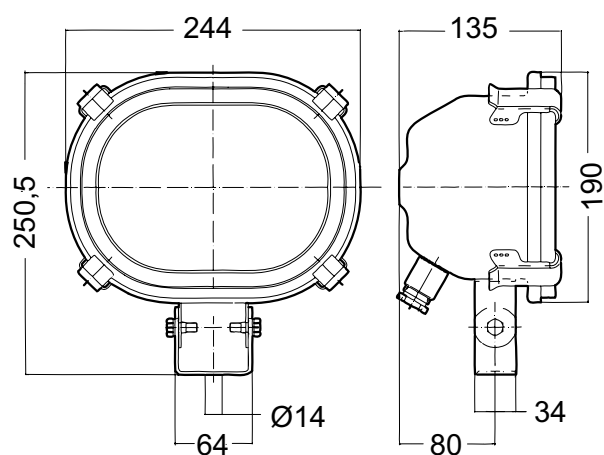
Fitting with premounted lightsources are available on request.

Product	Part No. max 240V	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1076 max. 1x200W Halogen B24	1076060	3.0	QT-DE12	R7s	A
Reflector 36° B24 = Brass cable gland M24x1.5					
Accessories	Part No.				
Halogen lamp 100W R7s (12V)	994017				
Halogen lamp 200W R7s (24V)	994018				
Halogen lamp 200W R7s (120V)	994019				
Halogen lamp 200W R7s (230V)	994020				
Gland gasket insert 12,0-16,5 mm	995075				
Gland gasket insert 16,0-18,0 mm	995076				

Spare Parts/ Accessories



A



All Dimensions in mm

1069 040

Floodlight, 500W Halogen



Application

Decks and holds, ramps, industrial and sport areas

Design

According to rules of maritime classification societies

Approvals

UL 1598 & 1598A, USCG Accepted

Housing

Stainless steel deep drawn, seamless

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness

Pane

Safety glass

Reflector

Highly polished aluminium, anodized

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; exterior connection box; terminal 3 - pole / 6 mm²

Lamp base

RSC



Light source (not included)

Halogen lamp L 119 mm, 200W / 300W / 500W

Mounting

Adjustable bracket with 4 mounting holes, dia. 11 / 14 mm

Cable entry

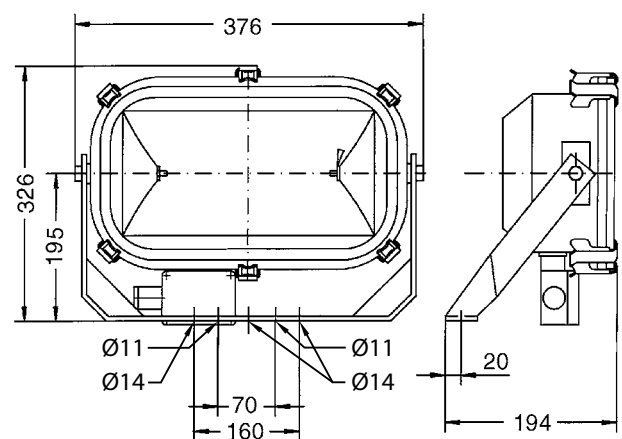
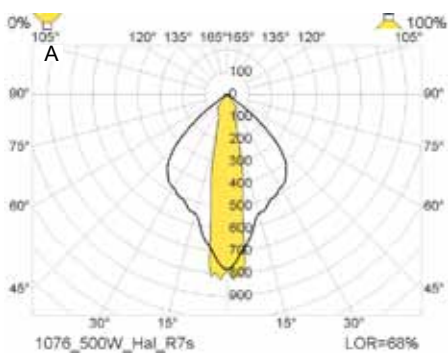
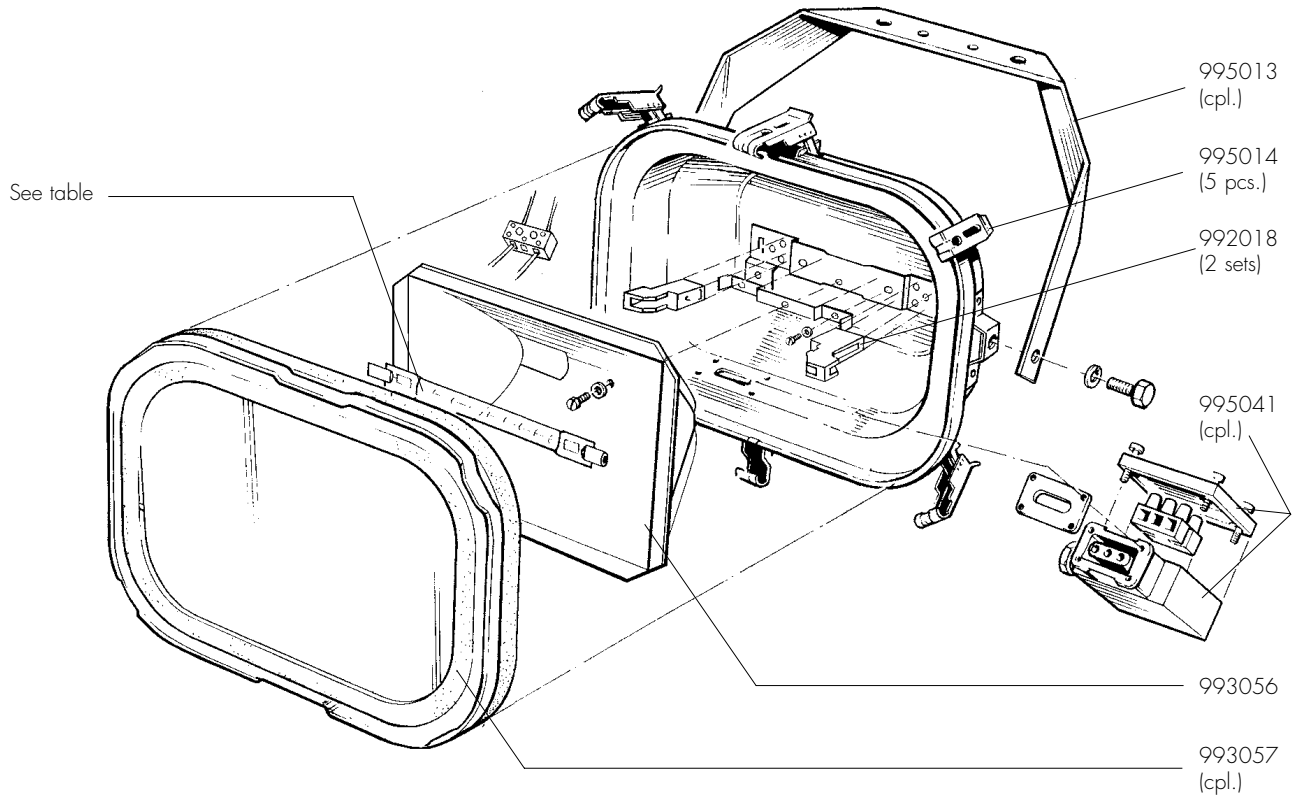
Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm

Remark

Use lamps from well-known manufacturers only

Product	Part No. max 220V	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1069 max. 1x500W Halogen B24	1069040	5,50	QT-T3	RSC	A
Reflector 34° B24 = Brass cable gland M24x1.5					
Accessories	Part No.				
Halogen Lamp 200W RSC (120V, 119 mm)	994019				
Halogen Lamp 200W RSC (220V, 119 mm)	994020				
Halogen Lamp 300W RSC (120V, 119 mm)	994037				
Halogen Lamp 300W RSC (220V, 119 mm)	994038				
Halogen Lamp 500W RSC (120V, 119 mm)	994021				
Halogen Lamp 500W RSC (220V, 119 mm)	994022				
Gland gasket insert 12.0-16.5mm	995075				
Gland gasket insert 16.0-18.0mm	995076				

Spare Parts/ Accessories



All Dimensions in mm

1069 012/015/016/017

Floodlight, 1000W Halogen



- Deep drawn seamless steel housing
- Instant light provided by halogen lamps
- No tools required to open the housing

Application

Decks and holds, industrial and sport areas

Design

According to rules of maritime classification societies

Approvals

UL 1598 & 1598A, USCG Accepted

Housing

Stainless steel deep drawn, seamless

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness

Pane

Safety glass

Reflector

Highly polished aluminium, anodized

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; exterior connection box; terminal 3 - pole / 6 mm²

Lamp base

RSC



Light source (not included)

Halogen lamp

120V: L = 190 mm, 220V: L = 256 mm

Mounting

Adjustable bracket with 4 mounting holes, dia. 11 / 14 mm

Cable entry

Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm

Remark

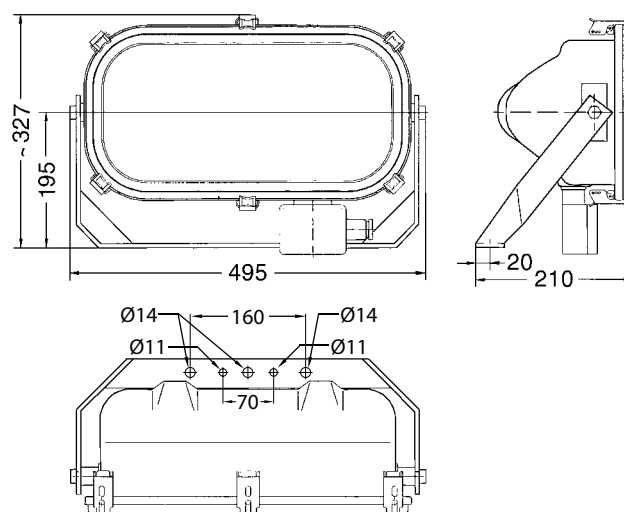
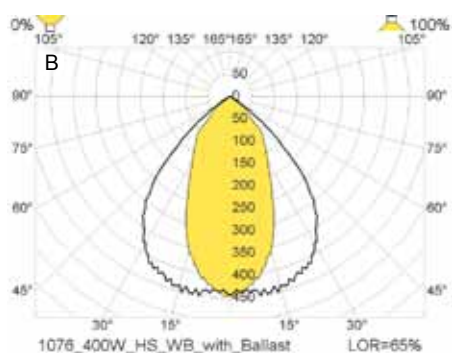
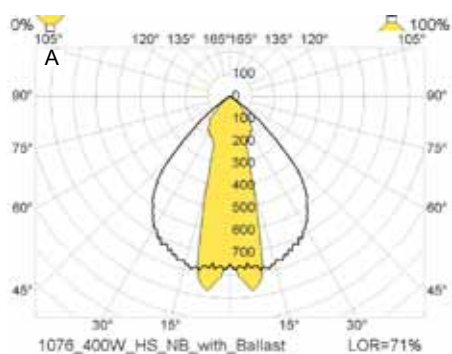
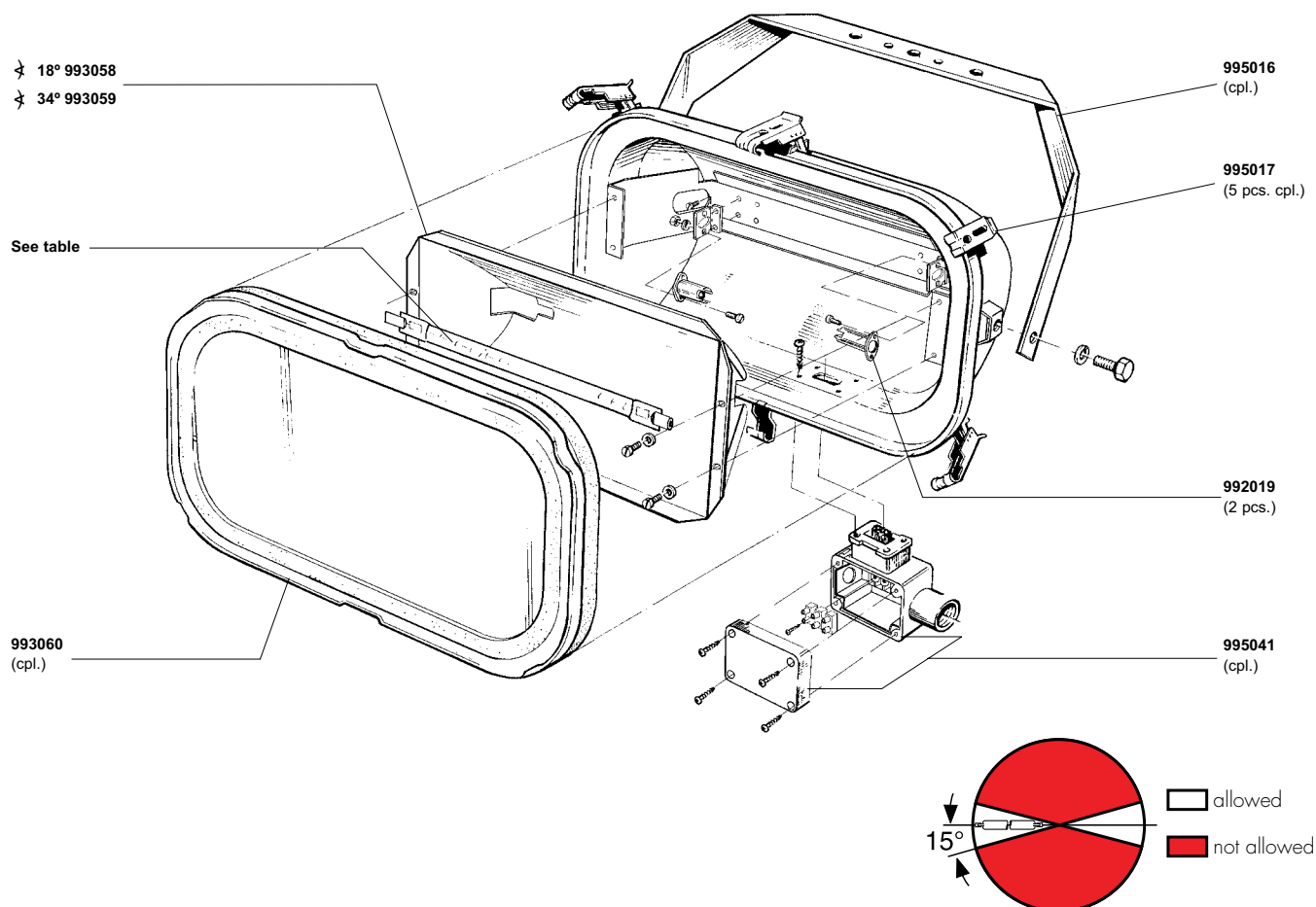
Use lamps from well-known manufacturers only

Product	Part No. 120V	Part No. 220V	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1069 max. 1x1000W Halogen NB B24	1069012	1069015	7,00	QT-T3	RSC	A
1069 max. 1x1000W Halogen WB B24	1069016	1069017	7,00	QT-T3	RSC	B

NB = Narrow beam reflector 18° WB = Wide beam reflector 34° B24 = Brass cable gland M24x1.5

Accessories	Part No.
Halogen Lamp 1000W RSC (120V, 190 mm)	994023
Halogen Lamp 1000W RSC (220V, 256 mm)	994024
Gland gasket insert 12.0-16.5mm	995075
Gland gasket insert 16.0-18.0mm	995076

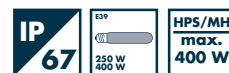
Spare Parts/ Accessories



All Dimensions in mm

1069 008/009

Floodlight 250/400W HPS/MH, Separate Ballast



- Deep drawn seamless steel housing
- High light output
- No tools required to open the housing

Application

Decks and holds, industrial and sport areas

Design

According to rules of maritime classification societies.

Approvals

UL 1598 & 1598A, USCG Accepted

Housing

Stainless steel deep drawn, seamless

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness

Pane

Safety glass

Reflector

Highly polished aluminium, anodized

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; exterior connection box with ignition unit; terminal 3 - pole / 6 mm²

Lamp base

E39



Light source (not included)

High pressure sodium lamps (HPS) / metal halide lamps (MH)

Mounting

Adjustable bracket with 4 mounting holes, dia. 11 / 14 mm

Cable entry

Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm

Remark

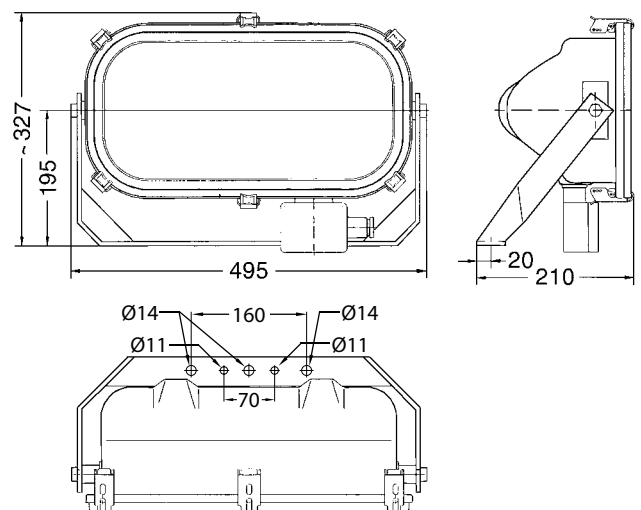
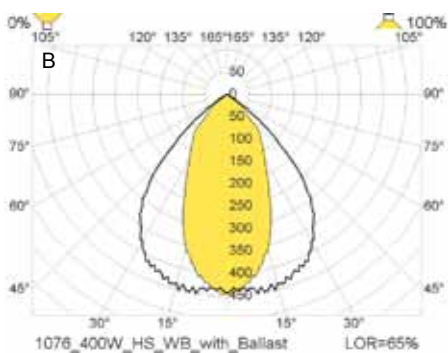
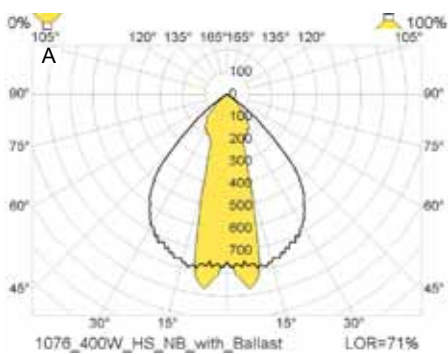
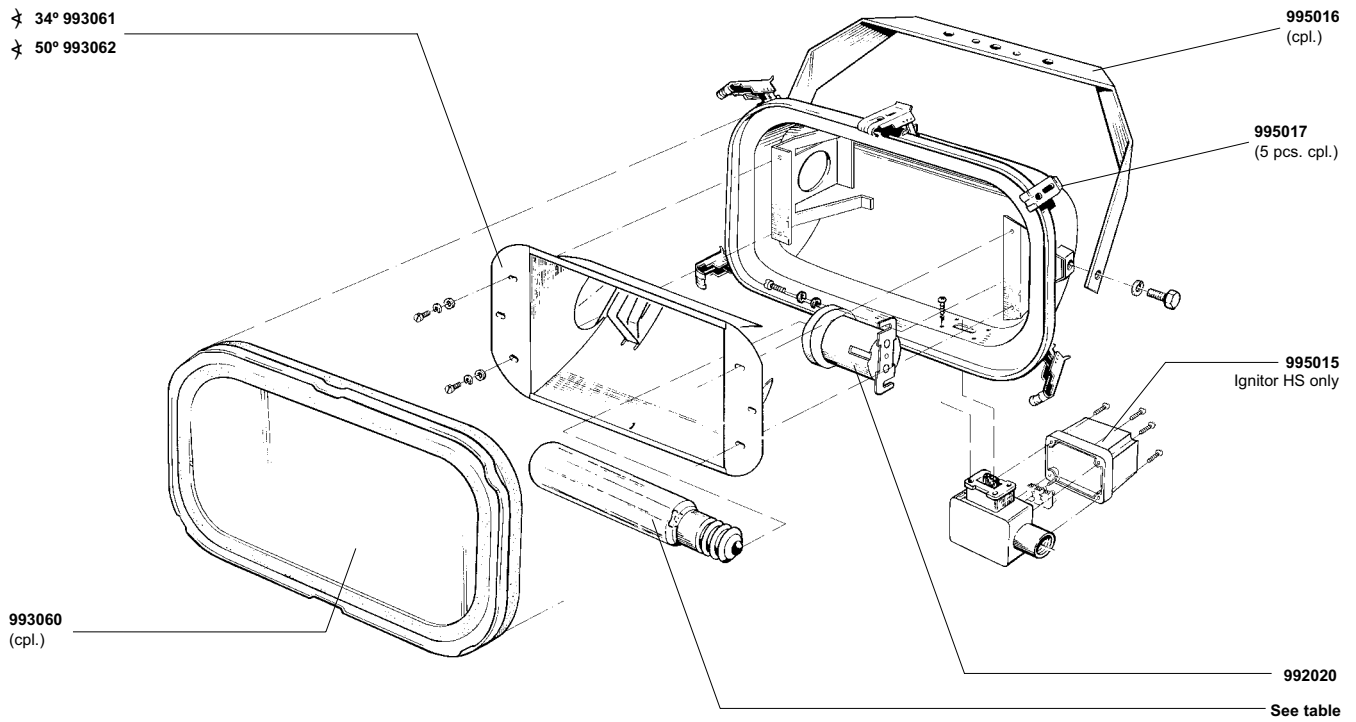
Ballast unit to be ordered separately (see type no 1513). Use lamps from well-known manufacturers only

Product	Part No. 220V	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1069 1x250/400W HPS NB B24	1069008	7,40	HPS	E39	A
1069 1x250/400W HPS WB B24	1069009	7,40	HPS	E39	B
1069 1x250/400W MH NB B24	1069008MH	7,40	MH	E39	A
1069 1x250/400W MH WB B24	1069009MH	7,40	MH	E39	B

NB = Narrow beam reflector 34° WB = Wide beam reflector 50° B24 = Brass cable gland M24x1.5

Accessories	Part No.
High Pressure Sodium lamp HPS 250W E39	994025
High Pressure Sodium lamp HPS 400W E39	994026
Metal Halide lamp MH 250W E39	994032
Metal Halide lamp MH 400W E39	994034
Gland gasket insert 12.0-16.5mm	995075
Gland gasket insert 16.0-18.0mm	995076

Spare Parts/ Accessories



All Dimensions in mm

1069 018-021

Floodlight with incorporated ballast for high pressure sodium lamps or metal halide lamps



- Deep drawn seamless steel housing
- High light output
- No tools required to open the housing

Application

Decks and holds, industrial and sport areas

Design

According to rules of maritime classification societies.

Approvals

UL 1598 & 1598A, USCG Accepted

Housing

Stainless steel deep drawn, seamless

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness

Pane

Safety glass

Reflector

Highly polished aluminium, anodized

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; exterior connection box with ignition unit, ballast is incorporated; terminal 3 - pole / 6 mm²



Lamp base

E39

Light sources

(Not included) High pressure sodium lamps (HPS) / metal halide lamps (MH)

Mounting

Two adjustable brackets with 2 mounting holes each, dia. 14 mm

Cable entry

Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm

Remark

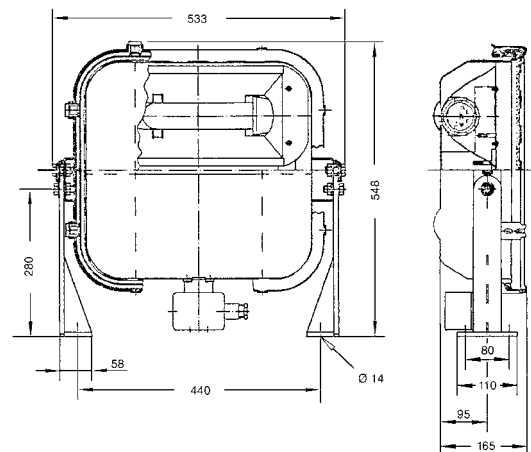
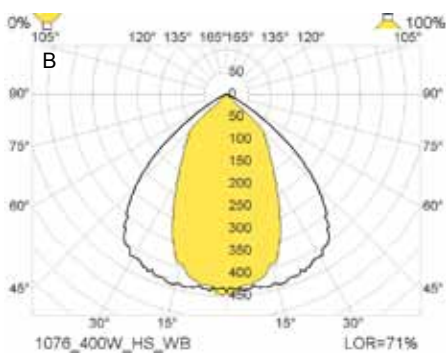
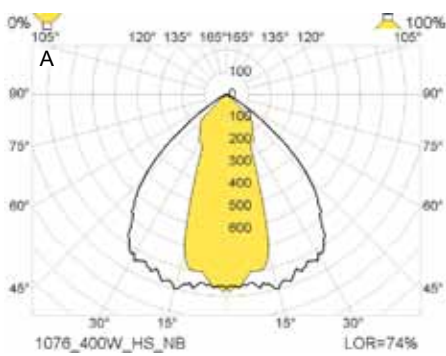
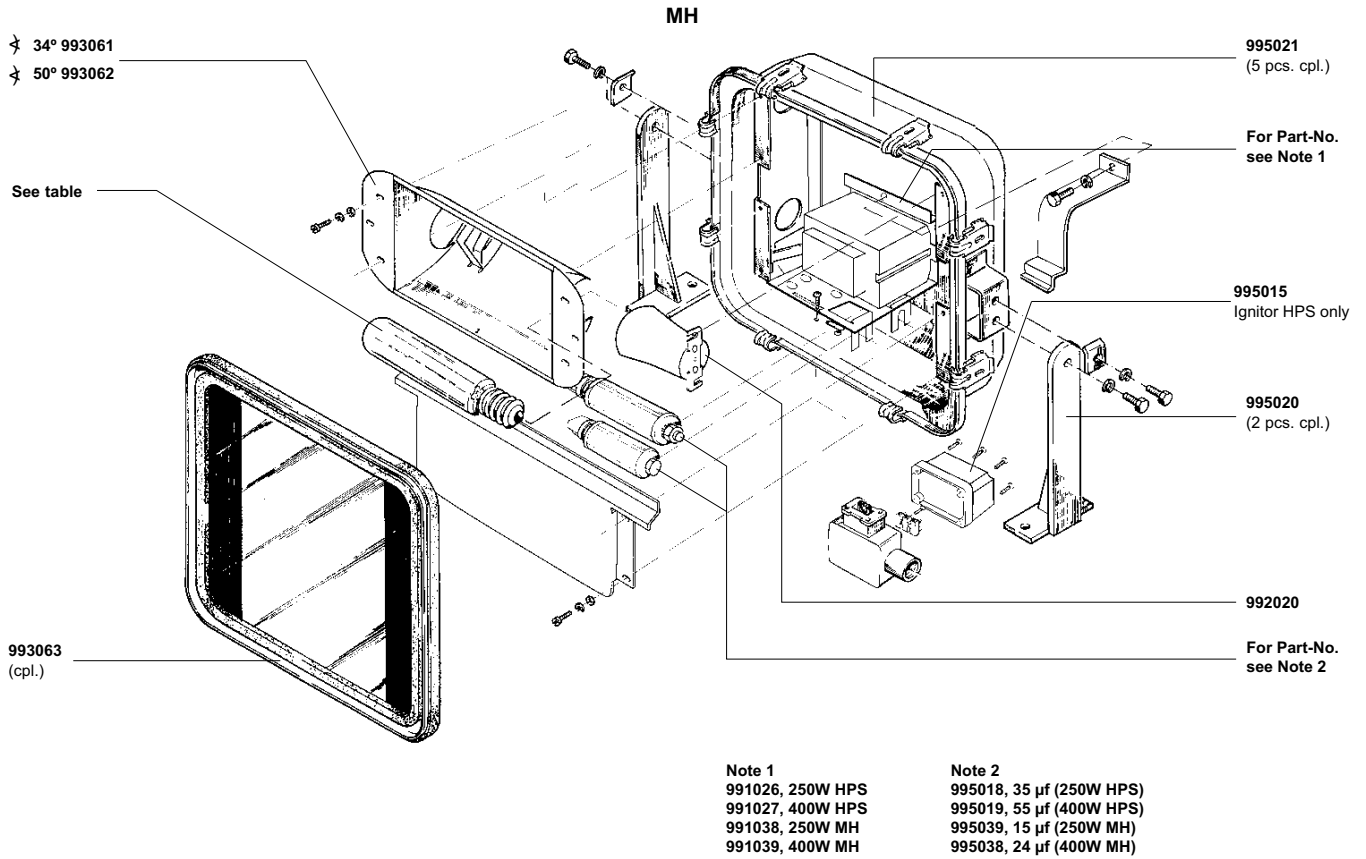
Use lamps from well-known manufacturers only

Product	Part No. 120/208/240/277V/60Hz	Part No. 120/277V/60Hz	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1069 1x250W HPS NB B24	1069018		20,00	HPS	E39	A
1069 1x250W HPS WB B24	1069019		20,00	HPS	E39	B
1069 1x400W HPS NB B24	1069020		21,00	HPS	E39	A
1069 1x400W HPS WB B24	1069021		21,00	HPS	E39	B
1069 1x250W MH NB B24		1069018MH	20,00	MH	E39	A
1069 1x250W MH WB B24		1069019MH	20,00	MH	E39	B
1069 1x400W MH NB B24	1069020MH		21,00	MH	E39	A
1069 1x400W MH WB B24	1069021MH		21,00	MH	E39	B

NB = Narrow beam reflector 34° WB = Wide beam reflector 50° B24 = Brass cable gland M24x1.5

Accessories	Part No.
High Pressure Sodium lamp HPS 250W E39	994025
High Pressure Sodium lamp HPS 400W E39	994026
Metal Halide lamp MH 250W E39	994032
Metal Halide lamp MH 400W E39	994034
Gland gasket insert 12.0-16.5mm	995075
Gland gasket insert 16.0-18.0mm	995076

Spare Parts/ Accessories



All Dimensions in mm

1069 013/014

Floodlight, 1000W HPS, separate ballast



- Deep drawn seamless steel housing
- High light output
- No tools required to open the housing

Application

Decks and holds, industrial and sport areas, illumination of water surfaces, fishing-nets etc.

Design

According to rules of maritime classification societies.

Approvals

UL 1598 & 1598A, USCG Accepted

Housing

Stainless steel deep drawn, seamless

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness

Pane

Safety glass

Reflector

Highly polished aluminium, anodized

Electric

Flexible wiring, silicone insulated, heat resistant up to 180° C; exterior connection box with ignition unit; terminal 3 - pole / 6 mm²

Lamp base

E39



Light source (not included)

High pressure sodium lamps (HPS)

Mounting

2 adjustable brackets with 2 mounting holes each, dia. 14 mm

Cable entry

Brass cable gland M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm

Remark

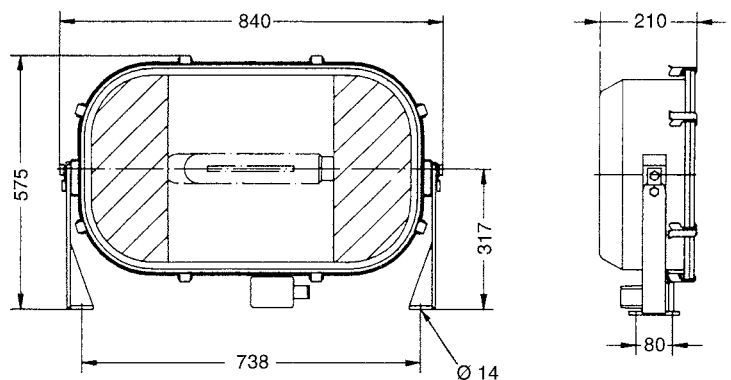
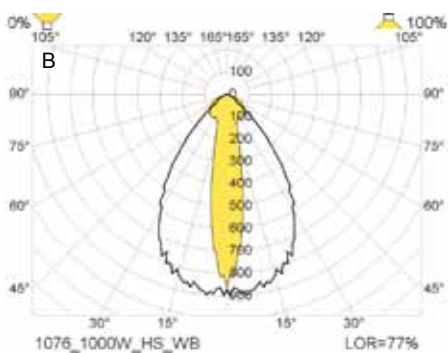
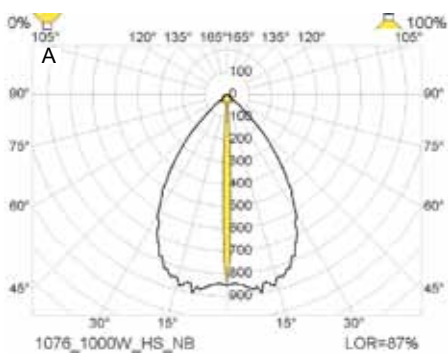
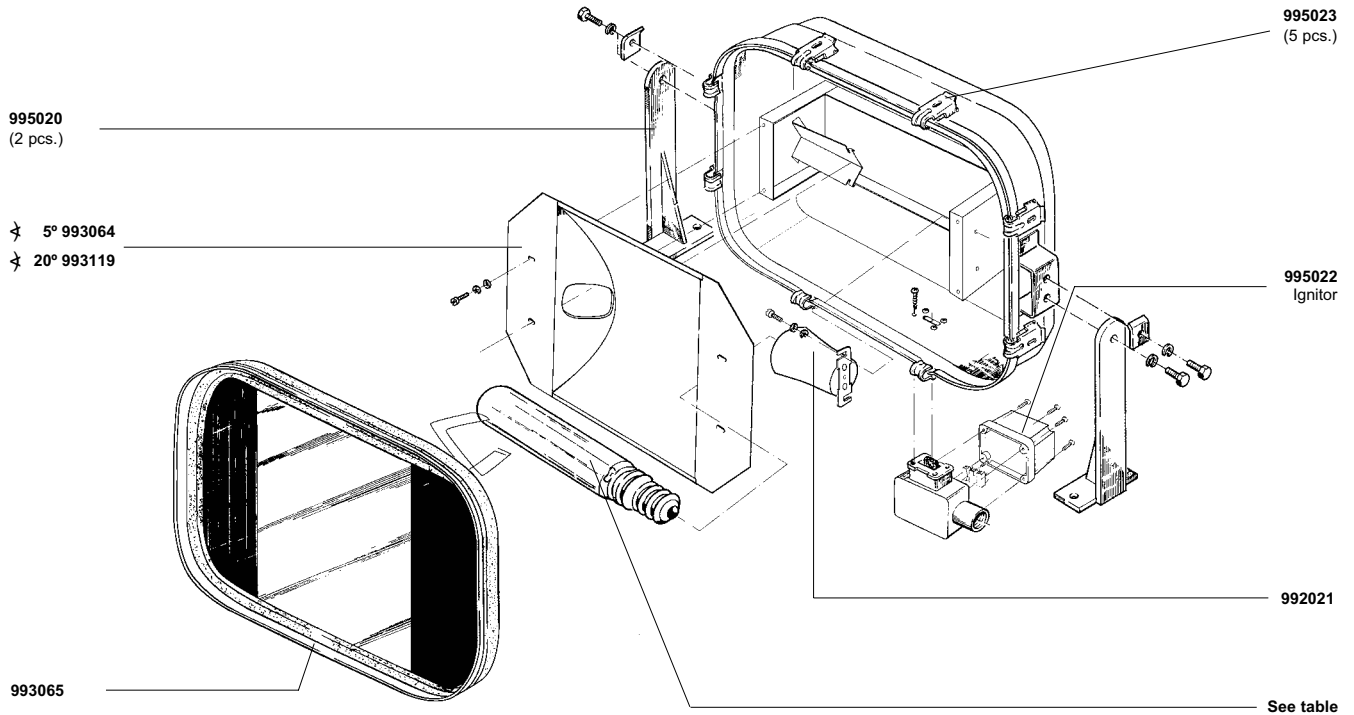
Ballast unit has to be ordered separately (see type no 1513). Use lamps from well-known manufacturers only

Product	Part No.	Weight (kg)	Lamp Code	Lamp Base	Light Distr.
1069 1x1000W HPS NB B24	1069013	19,75	HPS	E39	A
1069 1x1000W HPS WB B24	1069014	19,75	HPS	E39	B

NB = Narrow beam reflector 5° WB = Wide beam reflector 20° B24 = Brass cable gland M24x1.5

Accessories	Part No.
High Pressure Sodium lamp HPS 1000W E39	994027
Gland gasket insert 12.0-16.5mm	995075
Gland gasket insert 16.0-18.0mm	995076

Spare Parts/ Accessories



All Dimensions in mm

1513 Series Floodlight Ballast Unit



GLOBAL MARINE & OFFSHORE
LIGHTING SOLUTIONS

- Deep drawn seamless steel housing
- No tools required to open the housing
- Cover fixed with safety wire

Application

Decks and holds, industrial and sport areas

Design

According to rules of maritime classification societies.

Approvals

UL 1598 & 1598A, USCG Accepted

Housing

Stainless steel deep drawn, seamless

Finish

Powder coated white RAL 9016 and enamelled up to 70 - 80 µm thickness

Electric

Flexible wiring, heat resistant up to 105° C; terminal 5 - pole / 10 mm²

Mounting

2 welded brackets with 2 mounting holes each, dia. 10.5 mm

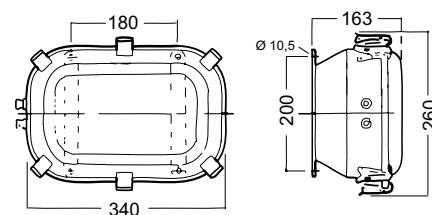


Cable entry

2 brass cable glands M 24 x 1.5 MGCG; standard for cable dia. 10 to 12.5 mm

Remark

Floodlights to be ordered separately



All Dimensions in mm

Please specify cpl. part. no of the ballast when ordering spare parts

Product	Part No. 120/208/240/277V/60Hz	Part No. 120/277V/60Hz	Weight (kg)	Lamp Code
1513 1x250W HPS B24	1513002		15,60	HPS
1513 1x400W HPS B24	1513004		15,60	HPS
1513 1x1000W HPS B24	1513007		15,60	HS
1513 1x250W MH B24		1513010	15,60	HI
1513 1x400W MH B24	1513011		15,60	HI

B24 = Brass cable gland M24x1.5

Accessories	Part No.
Spare Part Ballast 250W HPS, 120/208/240/277V	991026
Spare Part Ballast 400W HPS, 120/208/240/277V	991027
Spare Part Ballast 1000W HPS, 120/208/240/277V	991032
Spare Part Ballast 250W MH, 120/277V	991038
Spare Part Ballast 400W MH, 120/208/240/277V	991039
Spare Part Cable Gland M24x 1.5 MGCG (2pc)	995010
Spare Part Cover Clamp Stainless Steel (5pc)	995030
Spare Part Capacitor 35µf; 250W HPS	995018
Spare Part Capacitor 55µf; 400W HPS	995019
Spare Part Capacitor 26µf; 1000W HPS	995029
Spare Part Capacitor 15µf; 250W MH	995039
Spare Part Capacitor 24µf; 400W MH	995038
Gland gasket insert 12.0-16.5mm	995075
Gland gasket insert 16.0-18.0mm	995076





Navigation Lights

LED and incandescent navigation - and signalling lights fulfilling all requirements of IMO Anti Collision Regulations and local rules



Series 65 PC/BR
Page 100



Serie 65 Arctic
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Serie 55
Page 104



Series 70
Page 106



Series 70M
Page 108



Steering light blue
Page 110

Navigation Lights

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Series 70M	108
Series 55 Steering light blue	110

Series 65

aqua signal LED navigation lights



- Long lifetime up to 110,000 operating hours (depending on ambient temperature)
- Main and back-up system in one housing
- High level of reliability

Application

For all vessels ≥ 20 m in length. Lights marked  may also be used on inland waterways without limitation of ship's length

Housing

Glass-fibre reinforced polycarbonate or brass. Other components of non-corroding materials. Seawater resistant. Lid anodized aluminium or brass

Housing colour

Black, white or brass

Optic

Polycarbonate

Electric

Main lighting (upper unit) and spare lighting (lower unit) with connection box and 2 x M25 x 1.5 cable entry

Light source

High power LED,
mounted on aluminium rod:
4 LED for side and stern lights
6 LED for masthead



7 LED for all-round lights

Upper section: main system, lower section: back-up system

Mounting

4 hole mounting with connection box,
2 x M25 x 1.5 cable entry

Approvals

EC Type Examination (Module B)
Certificate BSH/4612/6011563/10.
Certified by a Coast Guard accepted independent laboratory to USCG / IMO COLREGS and UL 1104 standards.

Min. visibilities

3 nm for port/starboard/stern/all-round signalling.

6 nm for masthead

5 nm for manoeuvring light

BLACK

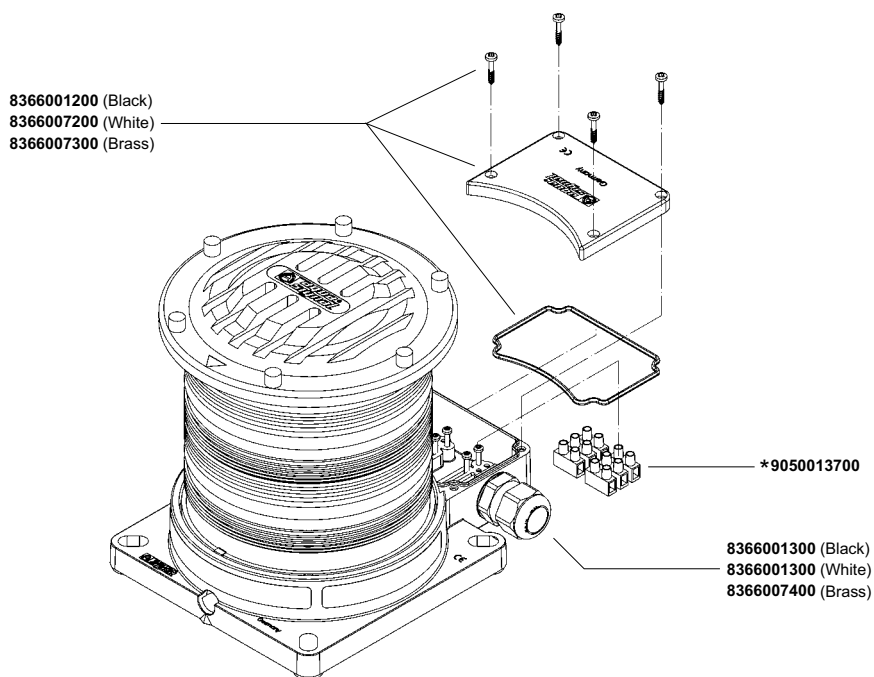
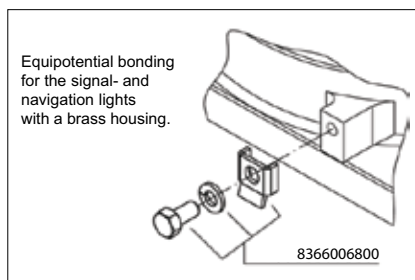
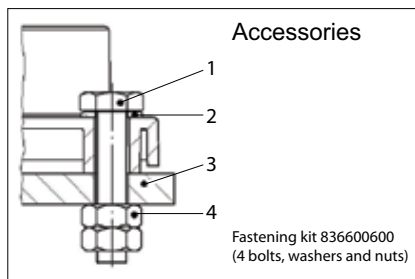
65 LED navigation light Visibility	Part-No. Port 3 nm 112.5°	Part-No. Starboard 3 nm 112.5°	Part-No. Stern 3 nm 135°	Part-No. Stern yellow 3 nm 135°	Part-No. Masthead 6 nm 225°	Weight (kg)
115/230V AC Main/Reserve	3664205000	3663105000	3662705000	3662405000	3661005000	3.3
24V DC Main/Reserve	3664203000	3663103000	3662703000	3662403000	3661003000	3.3
115/230V AC Main/Reserve 24V DC	3664206000	3663106000	3662706000	3662406000	3661006000	3.3
Visibility All-round	White + Morse 3 nm	Yellow 3 nm	Red 3 nm	Green 3 nm	White Manoeuvre 5 nm	
115/230V AC Main/Reserve	3660705000	3660405000	3660205000	3660105000	3660005000	3.3
24V DC Main/Reserve	3660703000	3660403000	3660203000	3660103000	3660003000	3.3
115/230V AC Main/Reserve 24V DC	3660706000	3660406000	3660206000	3660106000	3660006000	3.3

Part numbers for lights in white finish on request.

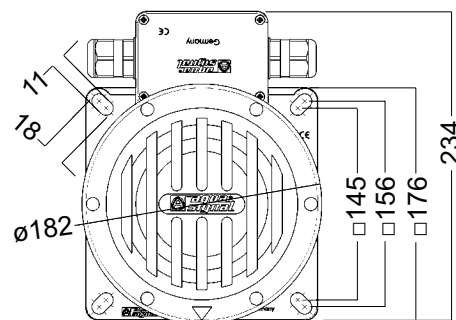
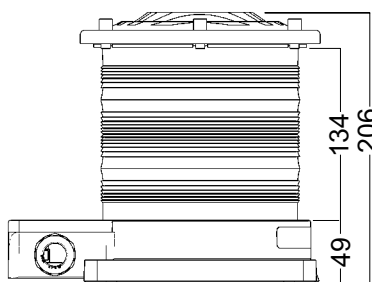
BRASS

Visibility	Port 3 nm 112.5°	Starboard 3 nm 112.5°	Stern 3 nm 135°	Stern yellow 3 nm 135°	Masthead 6 nm 225°	Weight (kg)
115/230V AC Main/Reserve	3664225000	3663125000	3662725000	3662425000	3661025000	6.5
24V DC Main/Reserve	3664223000	3663123000	3662723000	3662423000	3661023000	6.5
115/230V AC Main/Reserve 24V DC	3664226000	3663126000	3662726000	3662426000	3661026000	6.5
Visibility All-round	White + Morse 3 nm	Yellow 3 nm	Red 3 nm	Green 3 nm	White Manoeuvre 5 nm	
115/230V AC Main/Reserve	3660725000	3660425000	3660225000	3660125000	3660025000	3.3
24V DC Main/Reserve	3660723000	3660423000	3660223000	3660123000	3660023000	3.3
115/230V AC Main/Reserve 24V DC	3660726000	3660426000	3660226000	3660126000	3660026000	3.3

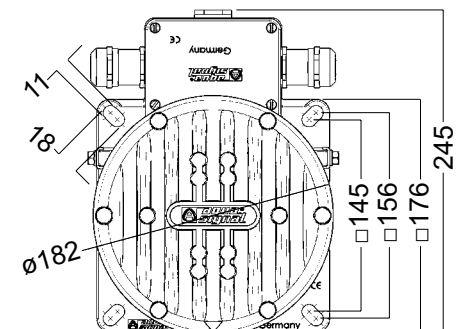
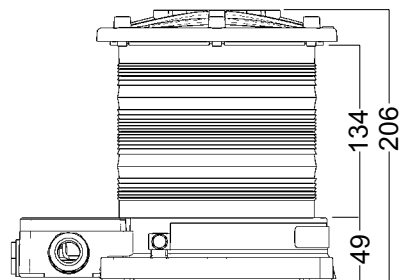
Spare Parts/ Accessories



Black/White



Brass



Series 65 Arctic

aqua signal LED navigation lights



- Long lifetime up to 110,000 operating hours (depending on ambient temperature)
- Main and back-up system in one housing
- High level of reliability
- Designed for low temperatures

Application

For all vessels ≥ 20 m in length. Lights marked  may also be used on inland waterways without limitation of ship's length; specially designed for vessels in arctic area

Housing

Glass-Fibre reinforced polycarbonate or brass. Other components of non-corroding materials. Seawater resistant. Lid anodized aluminium or brass

Housing colour

Black, white or brass

Optic

Polycarbonate

Electric

Main lighting (upper unit) and spare lighting (lower unit) with connection box and 2 x M25 x 1.5 cable entry; include heating foil for de-icing inside the lens

Light source

High power LED,
mounted on aluminium rod:
4 LED for side and stern lights
6 LED for masthead
7 LED for all-round lights
Upper section: main system, lower section:
back-up system



Mounting

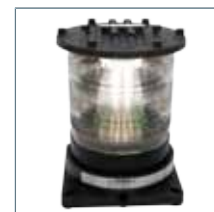
4 hole mounting with connection box,
2 x M25 x 1.5 cable entry

Approvals

EC Type Examination (Module B)
Certificate BSH/4612/6012092/11
Certified by a Coast Guard accepted independent laboratory to USCG / IMO COLREGS and UL 1104 standards.

Min. visibilities

3 nm for port/starboard/stern/all-round signalling.
6 nm for masthead
5 nm for manoeuvring light



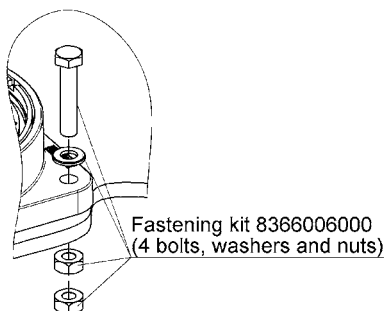
Serie 65 Arctic black

More variants are available on request. Complete assortment on www.glamox.com/gmo

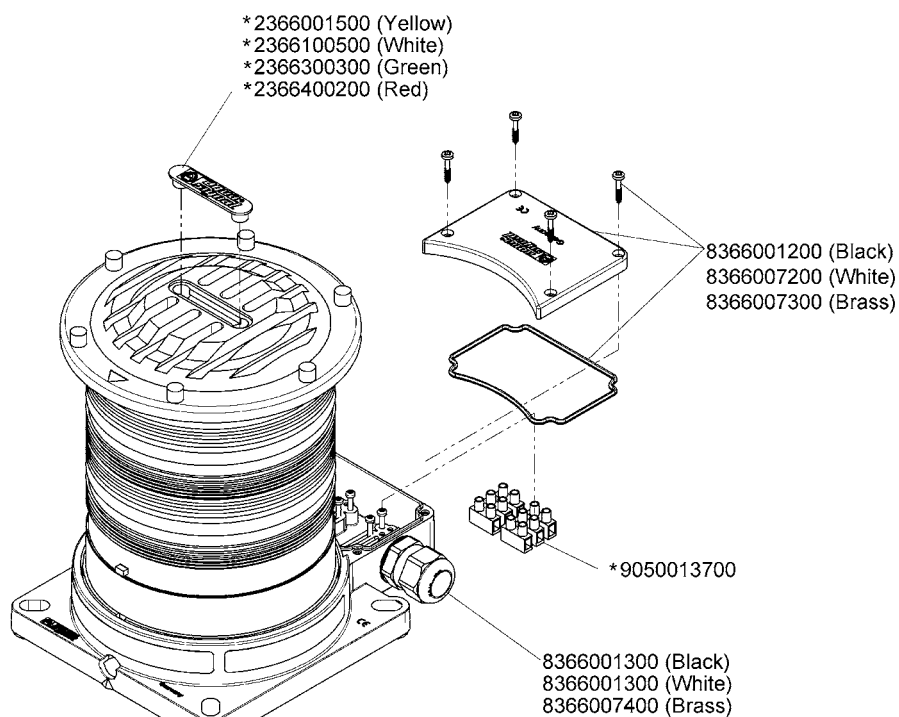
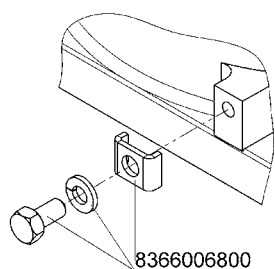
Product	Part-No. Black housing 115V	Part-No. Black 230V	Part-No. Brass 115V	Part-No. Brass 230V	Part-No. White 115V	Part-No. White 230V
Series 65 Arctic Starboard	3663147000	3663148000	3663137000	3663138000	3663157000	3663158000
Series 65 Arctic Port	3664247000	3664248000	3664237000	3664238000	3664257000	3664258000
Series 65 Arctic Masthead	3661047000	3661048000	3661037000	3661038000	3661057000	3661058000
Series 65 Arctic Stern white	3662747000	3662748000	3662737000	3662738000	3662757000	3662758000
Series 65 Arctic Stern yellow	3662447000	3662448000	3662437000	3662438000	3662457000	3662458000
Series 65 Arctic Signalling white	3660747000	3660748000	3660737000	3660738000	3660757000	3660758000
Series 65 Arctic Signalling red	3660247000	3660248000	3660237000	3660238000	3660257000	3660258000
Series 65 Arctic Signalling green	3660147000	3660148000	3660137000	3660138000	3660157000	3660158000
Series 65 Arctic Signalling yellow	3660447000	3660448000	3660437000	3660438000	3660457000	3660458000

Spare Parts/ Accessories

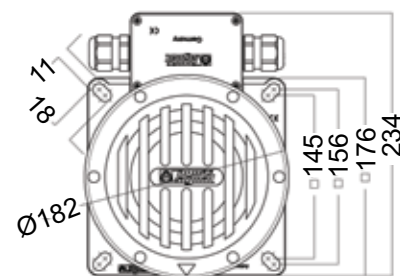
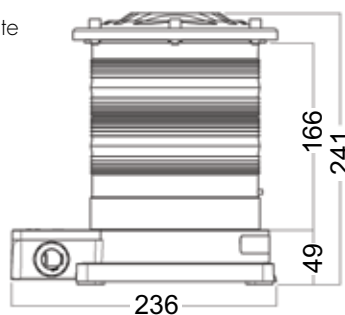
Accessories



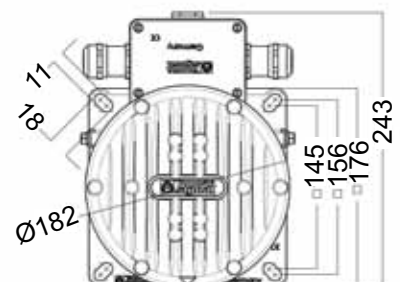
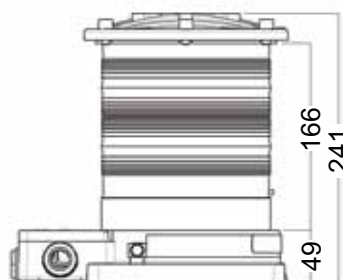
Equipotential bonding for the signal- and navigation lights with brass housing.



Black/White



Brass



Series 55

Navigation lights



- Unbreakable and extremely reliable

Application

For vessels > 20 - < 50 m in length. Lights marked may also be used on inland waterways without limitation of ship's length

Housing

Polycarbonate, glass fibre reinforced, other components of non-corrosive materials. Nonmagnetic, seawater resistant

Housing colour

Mat black

Electric

Conus inclusive 1.5 m special connection cable 2 x 1.5 mm², self-protective insulation, class II

Lamp

Easy to change tungsten bulb with socket BAY 15d. Light sources installed

Cable insert

PG 13.5 with buckling protection

Mounting

Base flange attachment, 4 screws Ø8 mm (not included). Allround lights may also be hoisted when 2 halyard hooks are attached (not included). Additional mounting aids see drawing



Approvals

International according to IMO Colreg 1972, in Germany through BSH, other countries in particular see list of approvals

Min. visibilities

2 n.m., masthead light 5 n.m

Optics

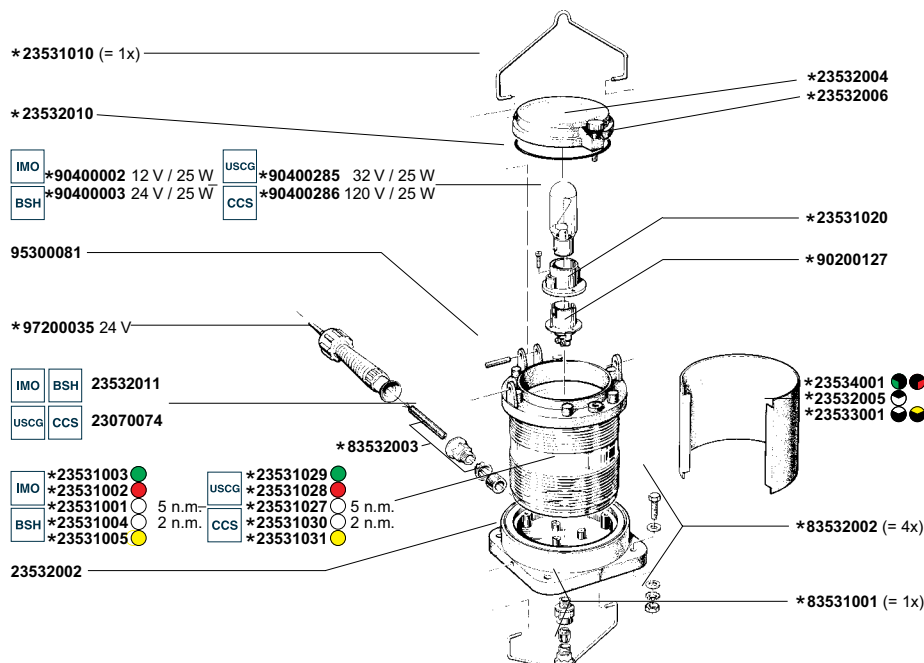
Seawater resistant special plastic Fresnel lens

Product	Part-No.		Part-No.		Part-No.		Visible angle	Weight (kg)	Base Code
	IMO/BSH	12V/25W	IMO/BSH	24V/25W	USCG/CCS	12V/120V*			
55 STARBOARD GREEN		3535102000		3535103000		3535150000	112.5°	1.3	BAY15d
55 PORT RED		3534202000		3534203000		3534250000	112.5°	1.3	BAY15d
55 MASTHEAD WHITE		3532002000		3532003000		3532050000	225°	1.3	BAY15d
55 STERN WHITE		3533702000		3533703000		3533750000	135°	1.3	BAY15d
55 STERN YELLOW		3533402000		3533403000		3533450000	135°	1.3	BAY15d
55 SIGNALLING WHITE		3531702000		3531703000		3531750000	360°	1.2	BAY15d
55 SIGNALLING RED		3531202000		3531203000		3531250000	360°	1.2	BAY15d
55 SIGNALLING GREEN		3531102000		3531103000		3531150000	360°	1.2	BAY15d

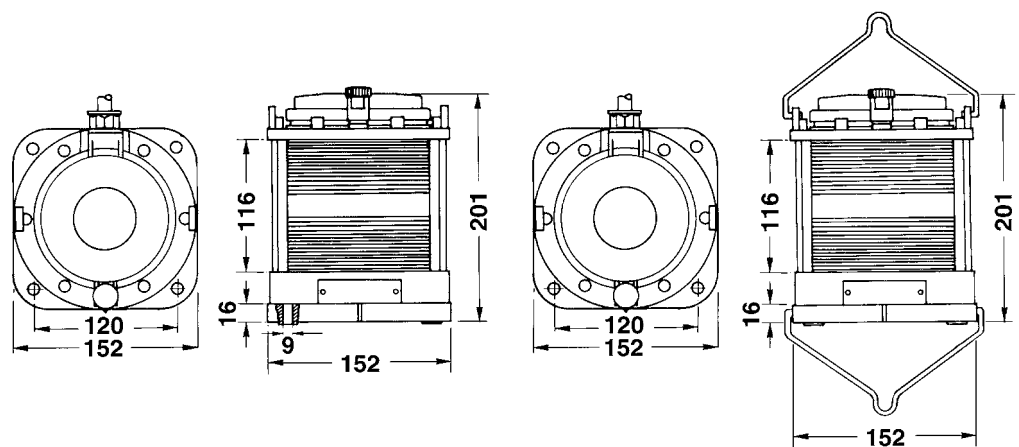
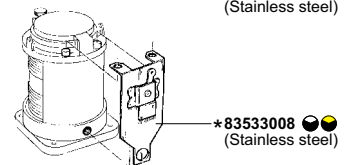
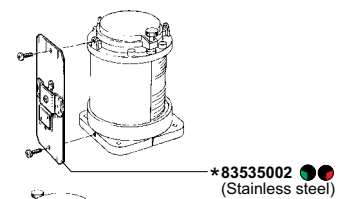
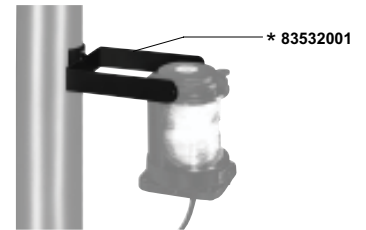
*Lamp not included, for USCG/CCS

Accessories	Part-No.
HALYARD HOOKS	2353101000

Spare Parts/ Accessories



● Starboard ● Port ● Masthead ● Stern ● Signalling
 ● Starboard ● Port ● Masthead ● Stern ● Signalling



HALYARD HOOKS

Series 70

Navigation lights



- Unbreakable and extremely reliable

Application

All vessels ≥ 20 m in length. Lights marked  may also be used on inland waterways without limitation of ship's length

Housing

Polycarbonate, glass fibre reinforced, other components of non-corrosive materials. Housing self-ventilated. Nonmagnetic, seawater resistant

Housing colour

Mat black

Electric

Conus inclusive 1.5 m special connection cable 2 x 1.5 mm², self-protective insulation, class II

Lamp

Easy to change special tungsten bulb

Cable insert

Special cable gland metric pressure screw M24 x 1.5 with protection against buckling

Mounting

Base flange attachment, 4 screws (not included). Allround lights may also be hoisted. Additional mounting aids see drawing



Approvals

a) International according to IMO Colreg 1972, in Scandinavian countries too, in Germany through BSH, other countries in particular see list of approvals

b) US-Coastguard, China Classification Society. These lights may only be used on ships flying the flags of the USA or P.R. China

Min. visibilities

3 n.m., masthead light 6 n.m., manoeuvre 5 n.m

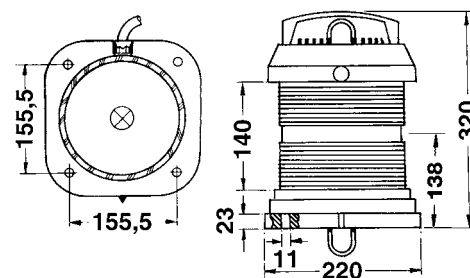
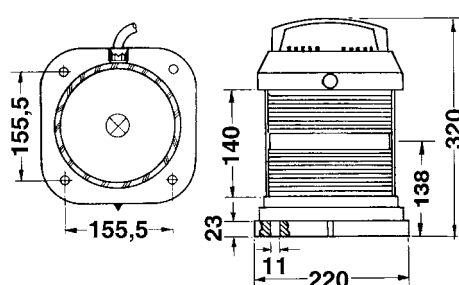
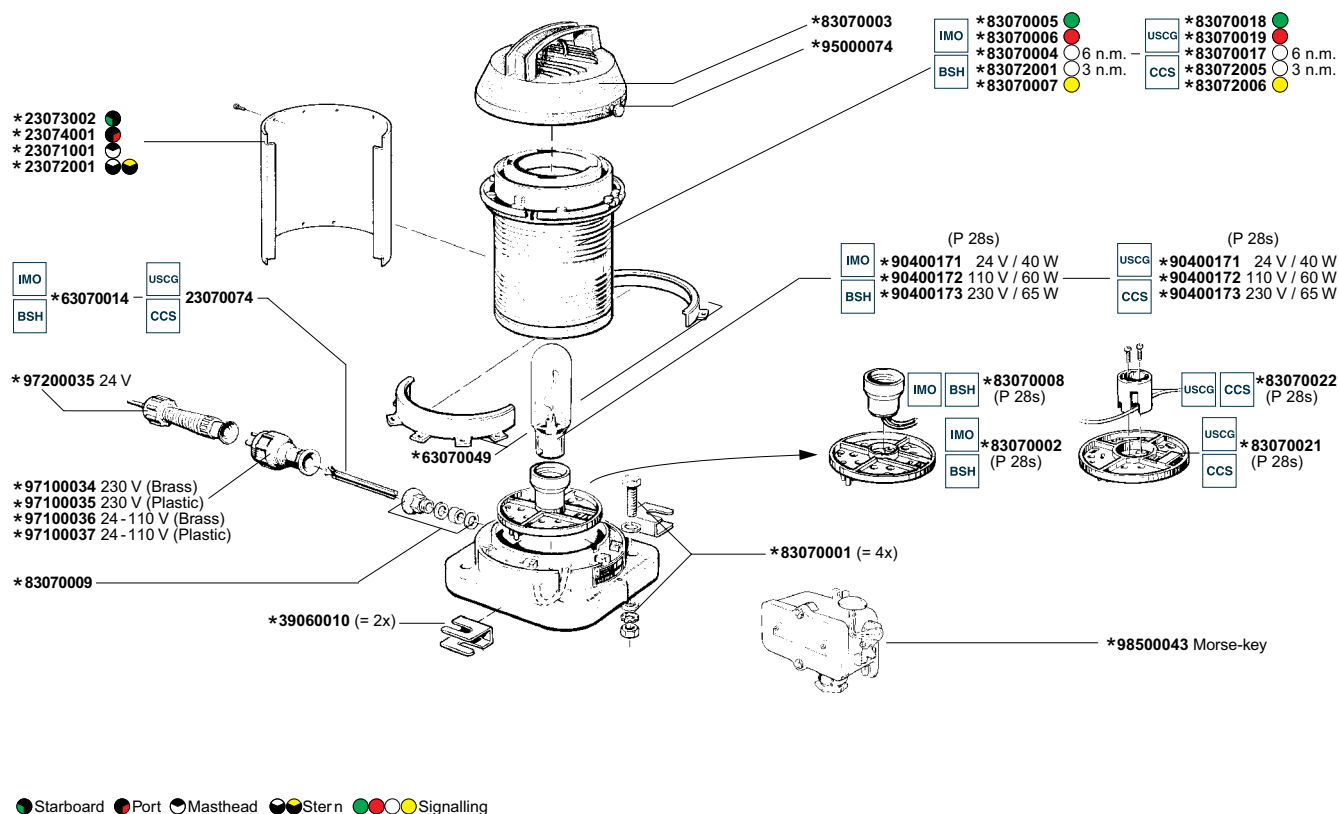
Optics

Seawater resistant, special plastic Fresnel lens

Product	Part-No.	Part-No.	Part-No.	Part-No.	Visible angle	Weight (kg)	Base Code
	IMO/BSH 24V/40W	IMO/BSH 110V/60W	IMO/BSH 230V/65W	USCG/CCS 24/110/230V*			
70 STARBOARD GREEN	3073103000	3073104000	3073105000	3073109000	112.5°	2.9	P28s
70 PORT RED	3074203000	3074204000	3074205000	3074209000	112.5°	2.9	P28s
70 MASTHEAD WHITE	3071003000	3071004000	3071005000	3071009000	225°	2.9	P28s
70 STERN WHITE	3072703000	3072704000	3072705000	3072709000	135°	2.9	P28s
70 STERN YELLOW	3072403000	3072404000	3072405000	3072499000	135°	2.9	P28s
70 SIGNALLING WHITE	3070703000	3070704000	3070705000	3070009000	360°	2.7	P28s
70 SIGNALLING RED	3070203000	3070204000	3070205000	3070209000	360°	2.7	P28s
70 SIGNALLING GREEN	3070103000	3070104000	3070105000	3070109000	360°	2.7	P28s
70 SIGNALLING YELLOW	3070403000	3070404000	3070405000	3070499000	360°	2.7	P28s
70 MANOEUVRE WHITE	3070073000	3070074000	3070075000		360°	2.7	P28s

*Lamp not included, for USCG/CCS.

Spare Parts/ Accessories



Series 70M

Double lens navigation lights



- Unbreakable and extremely reliable
- Main and stand-by light in one housing

Application

All vessels ≥ 20 m in length. Lights marked  may also be used on inland waterways without limitation of ship's length

Housing

Polycarbonate, glass fibre reinforced, other components of non-corrosive materials. Housing self-ventilated. Nonmagnetic, seawater resistant

Housing colour

Mat black

Electric

Main lighting (upper unit) and spare lighting (lower unit) each come with 1.5 m special connection cable 2 x 1.5 mm², self-protective insulation, class II

Lamp

Easy to change. 2 tungsten bulbs

Cable insert

2 special cable glands metric pressure screw M24 x 1.5 with protection against buckling



Easy change of bulb with only one hand.

Mounting

Base flange attachment, 4 screws (not included). Allround lights may also be hoisted. Additional mounting aids see drawing

Approvals

a) International according to IMO 1972, in Scandinavian countries too, in Germany through BSH, other countries in particular see list of approvals

b) US-Coastguard, China Classification Society. These lights may only be used on ships flying the flags of the USA or P.R. China

Min. visibilities

3 n.m., masthead light 6 n.m

Optics

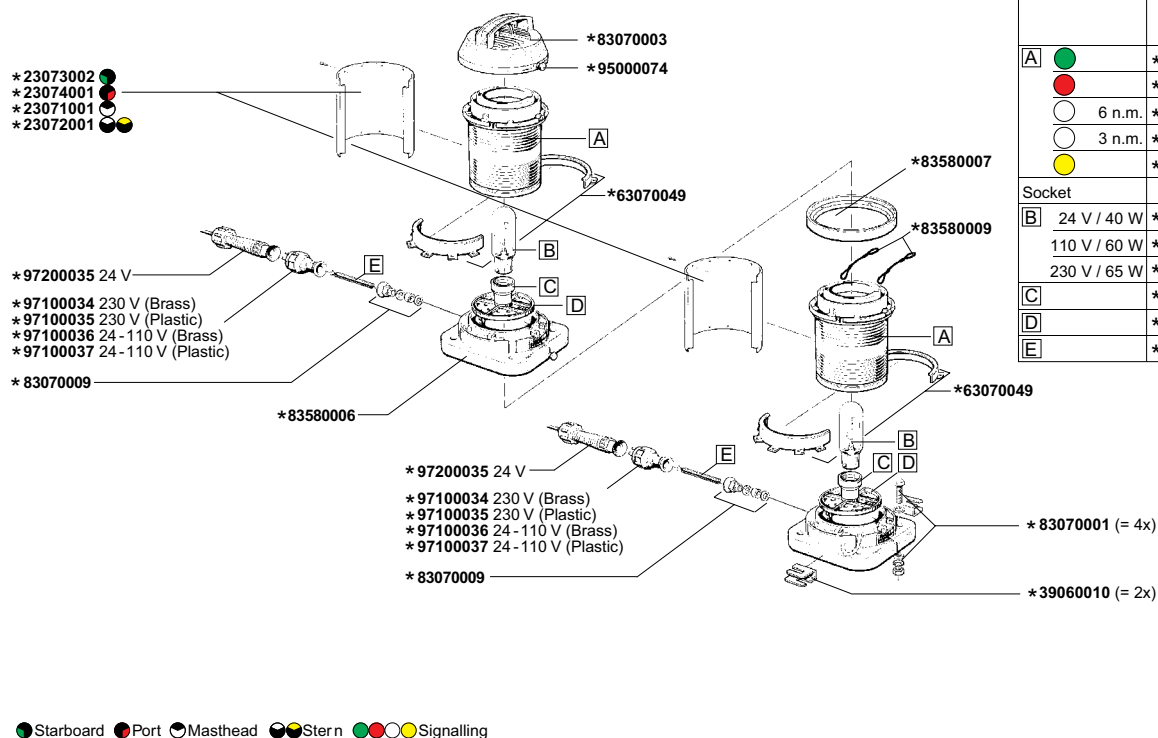
Seawater resistant, special plastic Fresnel lenses

Product	Part-No. 24V/24V 40W/40W	Part-No. 110V/110V 60W/60W	Part-No. 230V/230V 65W/65W	Part-No. 24V/230V 40W/65W	Part-No. 24V/110V 40W/60W	Part-No. 110V/230V 60W/65W	Part-No. USCG/CCS 24/110/230V*	Weight (kg)	Base Code
70M STARBOARD GREEN	3583103000	3583104000	3583105000	3583106000	3583107000	3583108000	3583109000	5.9	P28s
70M PORT RED	3584203000	3584204000	3584205000	3584206000	3584207000	3584208000	3584209000	5.9	P28s
70M MASTHEAD WHITE	3581003000	3581004000	3581005000	3581006000	3581007000	3581008000	3581009000	5.9	P28s
70M STERN WHITE	3582703000	3582704000	3582705000	3582706000	3582707000	3582708000	3582709000	5.9	P28s
70M STERN YELLOW	3582403000	3582404000	3582405000	3582406000	3582407000	3582408000	3582499000	5.9	P28s
70M SIGNAL WHITE	3580703000	3580704000	3580705000	3580706000	3580707000	3580708000	3580009000	5.6	P28s
70M SIGNAL RED	3580203000	3580204000	3580205000	3580206000	3580207000	3580208000	3580209000	5.6	P28s
70M SIGNAL GREEN	3580103000	3580104000	3580105000	3580106000	3580107000	3580108000	3580109000	5.6	P28s
70M SIGNAL YELLOW	3580403000	3580404000	3580405000	3580406000	3580407000	3580408000	3580499000	5.6	P28s

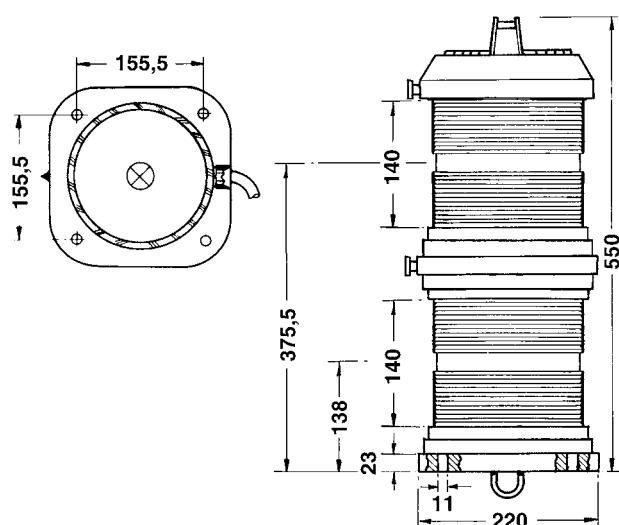
*Lamp not included., for USCG/CCS

Product	Visible angle
70M STARBOARD GREEN	112.5°
70M PORT RED	112.5°
70M MASTHEAD WHITE	225°
70M STERN WHITE	135°
70M STERN YELLOW	135°
70M SIGNAL WHITE	360°
70M SIGNAL RED	360°
70M SIGNAL GREEN	360°

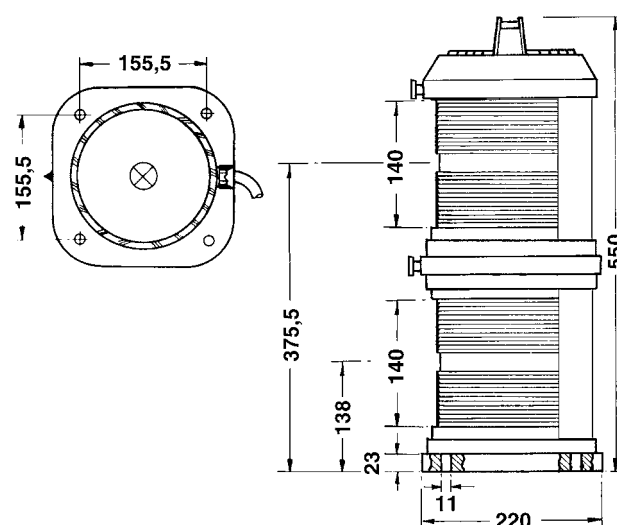
Spare Parts/ Accessories



	IMO	BSH	USCG	CCS
A	●	*83070005	*83070018	
	●	*83070006	*83070019	
	○ 6 n.m.	*83070004	*83070017	
	○ 3 n.m.	*83072001	*83072005	
	●	*83070007	*83072006	
Socket	(P 28s)	(P 28s)		
B	24 V / 40 W	*90400171	*90400171	
	110 V / 60 W	*90400172	*90400172	
	230 V / 65 W	*90400173	*90400173	
C		*83070008	*83070022	
D		*83070002	*83070021	
E		*63070014	*23070074	



Signalling



HOISTABLE VERSION
(allround lights)

Series 55

Steering light blue



- Indication of ships movement

Application

Early indication of ship’s movement when operating in narrow waterways or passing canals etc

Housing

Glass fibre reinforced polycarbonate and stainless steel. Other components of non-corrosive materials. Nonmagnetic, seawater resistant

Housing colour

Mat black and steel coloured

Optics

Wheel cross in two sizes suiting the ship’s length included

Electric

Wiring with 1.5 m special cable
3 x 1.5 mm²

Lamp

(included) Easy to change bulb with lamp base B 22



Mounting

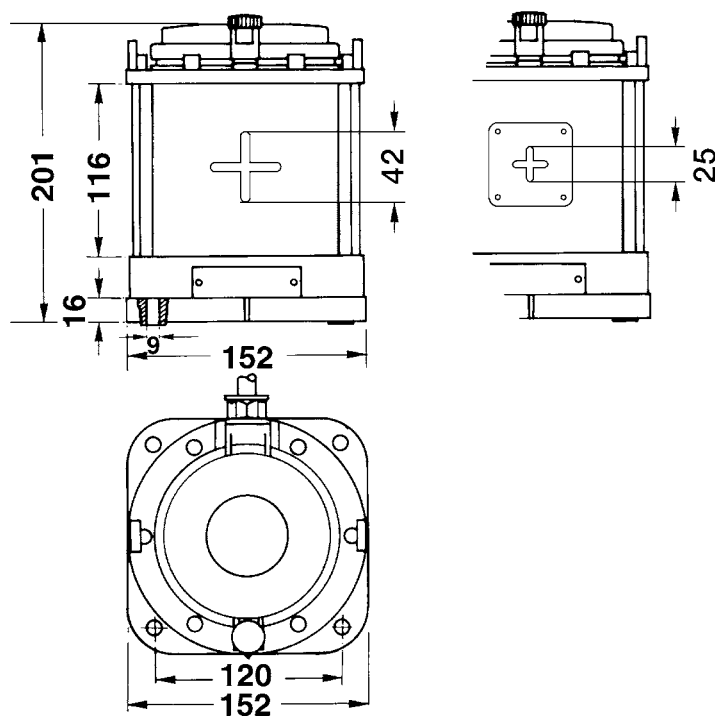
Base flange attachment, 4 screws
Ø8 mm (not included)

Cable insert

PG 13.5 with buckling protection

Product	Part-No. 24V	Part-No. 115V	Part-No. 230V	Weight (kg)	Base Code
STEERING LIGHT BLUE	3533553000	3533554000	3533555000	1.35	B22

Spare Parts/ Accessories

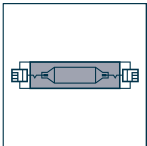


Part. No. Spare parts + Extras		
Lamp	24 V / 25 W	90400061
B 22	115 V / 25 W	90400132
	230 V / 25 W	90400133
Lamp base B22		83533013
Screening (cross)		83533012
Screening (stern)		23533001
Optic blue		63533053
Cable		90300087
Fastening bolts + nuts (4 off)		83532002





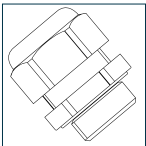
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Technical Lighting Terms

Technical Lighting Quantities and Units (according to DIN 5031)

Quantity		Unit			
Name	Symbol	Name	Symbol	Correlation	Explanation
Luminous Flux	Φ	Lumen	lm		Given luminous efficiency from light source
Quantity of light	Q	Lumen hour	lmh	$Q = \Phi \times t$	The product of the luminous flux Φ and its duration t
Luminous intensity	I	Candela	cd	$I = \Phi / \omega$	The quotient of the luminous flux Φ transmitted by a light source in a defined solid angle ω and the illuminated solid angle ω
Luminance	L	Candela per square meter	cd/m ²	$L(\epsilon) = \frac{I(\epsilon)}{A \times \cos \epsilon}$	For luminous planes: Quotient of the luminous intensity I of one light source in the direction ϵ and the area of the luminous plane seen from this angle.
		Stilb	sb	$Sb = 10^4 \times cd/m^2$	
		Candela per square meter	cd/m ²	$L(\epsilon) = \frac{p \times E}{\pi}$	For illuminated planes: Product of illuminance E and reflection degree p; valid only for totally diffused reflection surfaces.
		Apostilb	asb	$L = p \times E$	1 sb = $\pi \times 10^4$ asb
Illuminance	E	Lux	lx	$E = \Phi / A$	Quotient of the luminous flux Φ to a surface and the area of that surface A.

Technical Lighting Efficiency (according to DIN 5031)

Quantity			
Name	Symbol	Correlation	Explanation
Luminous Efficiency from a light source	η	$\eta = \Phi / P$	The luminous efficiency η of a light source is the quotient of the luminous flux emitted Φ and the electrical power required to produce it. Unit: lm/W.
Optical Efficiency of a luminaire	η_L	$\eta_L = \Phi_L / \Phi_o$	Quotient of the luminaire's luminous flux Φ_L and the sum of the lamps luminous fluxes Φ_o . For temperature dependent lamps such as fluorescent lamps, the optical efficiency is the highest level of efficiency and no factors affecting the luminous flux such as ambient temperature has been taken into consideration. It indicates only the optical properties of a luminaire and is not to be used for technical lighting calculations.
Light output Ratio	η_{LB}	$\eta_{LB} = \Phi_{LB}(t_u) / \Phi_o$	Quotient of a luminaires luminous flux Φ_L emitted of a luminaires ambient temperature to 25°C, and the sum of the lamps luminous fluxes Φ_o at a lamps ambient temperature of 25°C. The light output ratio is affected by the luminous flux/temperature behavior of the lamps and is, in general, less than the optical efficiency of the luminaire. It takes into account optical and thermal properties under working conditions. Only the light output ratio should be used for technical lighting calculations.
Utilization	η_R	$\eta_R = \Phi_N / \Phi_L$	Quotient of the luminous flux Φ_N , emitted to the affected area, and the total luminous flux Φ_L radiated to the room from the luminaires.
Utilization Factor	η_B	$\eta_B = \Phi_N / \Phi_o$ $\eta_B = \eta_R \times \eta_{LB}$	Quotient of the luminous flux Φ_N emitted to the affected area and the sum of the luminous flux Φ_o of all the lamps installed in the luminaires. It is the product of the area effectivity factor η_R and the light output ratio η_{LB} .

Incandescent lamps

Incandescent lamps in general there are no major problems. They are economical to install, requiring only a lampholder with two terminals. Burning position is not critical, temperature effects are minimal and the bulbs can be dimmed without difficulty. Luminaires using incandescent bulbs can be used with different voltage supplies simply by changing the bulb. Average life is approximately 1000 hours. Bulbs for navigation lights are developed especially in a view of their intended use in optical systems, they vary greatly from normal incandescent bulbs:

- 1) Special socket in order to prevent the use of normal bulbs in navigation lights and signaling lights. The special socket also ensures correct filament alignment to lens and horizontal shade systems.
- 2) Light output and wattage are pushed to a high lumen per watt ratio.
- 3) Special filament holders ensure equal light emission over an unbroken sector of 360.
- 4) Schemed manufacturing processes guarantee tight tolerance of filament itself and mounting filament.
- 5) Approved in conjunction with the appropriate navigation lights worldwide.

Halogen lamps

Halogen lamps have a higher luminous efficiency than the ordinary incandescent bulb. Lifetime is estimated at 2000 hours average. Halogen lamps can be dimmed down to 60% and burn at full strength immediately after a temporary break in supply. This is useful when considering the question of accident prevention and can not be achieved with high power discharge lamps.

Bulb life may be reduced by three factors:

- 1) Vibration particularly relevant to high voltage lamps. In areas of severe vibration resilient mounts should be used.

- 2) Excess voltage as for incandescent lamps.

- 3) Burning position linear. Linear halogen bulbs should usually be installed with the longitudinal axis horizontal or within +4 degrees, however considerable differences exist between individual makes and some bulbs are available which will function independently of the burning position.

Halogen low voltage lamps

High luminous flux, long lamp life (2000h), constant luminous flux during the total life of the lamp combined with excellent colour rendering are the advantages of these lamps. Their small dimensions make the design of small, unobtrusive fittings for new versatile fields of application possible.

Halogen low voltage lamps with reflector (coolbeam)

The lamps radiation of heat is reduced to 34% in order to illuminate objects sensitive to heat. These lamps can be dimmed without problems.

Fluorescent lamps

The main advantage of fluorescent lamps is their economy. In addition, the elongated shape provides a good lumen/watt ratio and relatively low luminance on the surface. The tubes therefore produce less glare. They have a very long working life, with an average luminous efficiency of about 80% after 5000-7500 hours. Operation beyond 40,000 hours is possible although the luminous efficiency will decline. Lamps up to 1200 mm in length have a good vibration/shock resistance, corresponding to the installation. With electronic ballast for dimming, standard fluorescent lamps can be dimmed without problems. The lamps are not sensitive to voltage fluctuation compared with other lamps, but sensitive to ambient temperatures. Deviation from average ambient temperature causes a decline in luminous flux.

High pressure Mercury Lamps

This type of lamps needs no ignition unit and operates with a mercury arc. The light from the arc is supplemented by light from UV sensitive phosphors. Different light colours, also for rendering good colour and for special purposes are offered. Burning position is not critical. These lamps offer problem free operation, but one disadvantage is that they are sensitive to voltage interruptions and fluctuations, both of which are likely to occur onboard ships. Warm lamps may take several minutes to achieve full output after an interruption of power. Lamp life is around 24,000 hours.

Low pressure sodium lamps

Offer the highest luminous efficiency of all. They are useful in all areas where the colour rendered is unimportant as they produce a monochromatic yellow light rendering poor colours. Contrast definition is good, particularly in foggy conditions. Burning position is important, but no ignitor is necessary and lifetime is similar to that of mercury vapour lamps.

High pressure sodium lamps

These combine very high luminous efficiency with small lamp dimensions. The lamps render good colour and are insensitive to vibrations. Ignition is required and small increases to operating voltage over the normal voltage can overload the lamp and reduce lifetime. Average lifetime is 24,000 hours and this type of lamp is especially suitable for flood and spotlighting ships exteriors.

Metal halide lamps

These lamps have a high luminous efficiency and are excellent for rendering good colour. Ignition unit is not required. The burning position of the 250W lamp is limited to +150 degrees out of the vertical and horizontal axis. The average lifetime is approx. 15,000 hours. They are used in spots and floodlights. Manufacturers specification for burning position of the lamp must be considered.

Technical

Different Process

Glamox Canada Process - Reflectors

Our secret chemical process imparts a pure aluminum-oxide surface on reflectors. This silken smooth finish reflects light semi-diffused and free of interference, without glare and high maximum luminances. Removal of the iron particles means that the optics retain their illumination qualities – even in the toughest of environments.

Powder Coating

Our luminaires are powder coated with MX-powder (binder combination of epoxy and polyester)

The powder gets static charged and automatically sprayed on to the product, which is suspended to an “earthed” conveyor. The static charge makes the

powder stick to the product until the powder is melted and hardened in the tempering furnace.

After the product is sprayed with powder, it goes into a tempering furnace with an air temperature of approx. 200 degrees Celsius for 15 minutes causing the powder to melt and harden.

IP Protection Classes

The following protection degrees define the protection of electrical appliances against accidental contact, foreign matters and water as started in IEC Publication 529 and DIN 40050.

Example:

IP

6

7

20

Ident. mark

1. Ident. number (see table 1)

2. Ident. number (see table 2)

Immersion depth in metres

Table 1

1. ident. No.	Protection level (contact and foreign matters)
0	No special protection
1	Protection against penetration of solid foreign matters, diameter > 50 mm, no protection against intentional contact e.g. by hand, body contact, however, is prevented.
2	Protection against penetration of solid foreign matters with outside diameter of more than 12 mm; finger contact or similar is prevented.
3	Protection against penetration of solid foreign matters with outside diameter of more than 2.5 mm. Prevents insertion of tools, wires or similar matters larger than 2.5 mm.
4	Protection against penetration of solid foreign matters with outside diameter of more than 1 mm. Prevents insertion of tools, wires or similar matters larger than 1 mm.
5	Protection against damaging dust accumulation. The penetration of dust is not totally prevented but is not permitted to penetrate to such a degree that the effectiveness of the equipment is affected. Complete contact protection.
6	Protection against penetration of dust. Complete contact protection.

Table 2

2. ident. No.	Protection level (water)
0	No special protection
1	Protection against vertical falling drip water, shall have no harmful effect.
2	Protection against vertical falling drip water; when fixture is shifted up to 15 degrees from its normal operating condition there shall be no harmful effect (flanking drip water).
3	Protection against spray water falling at any angle up to 60 degrees against perpendicular. It shall have no harmful effect (spray water).
4	Protection against water splashed against the fixture from any direction, shall have no harmful effect (splash water).
5	Protection against water projected by a nozzle against the fixture from any direction, shall have no harmful effect (hosed water).
6	Protection against heavy seas or strong jet stream, water must not enter the fixture in harmful quantities (overflowing).
7	Protection against water when fixture is submerged under defined conditions of depth. Water shall not enter fixture in harmful quantities (submerging).
8	The equipment is suitable for continuous submersion in water under conditions specified by the manufacturer.

All Glamox Canada products are manufactured in materials which are best suited to withstand whatever atmospheric and mechanical conditions they are exposed to. For this reason our products have an excellent reputation for reliability and long-life, particularly in rough usage areas.

Aluzinc

Aluzinc is cold rolled steel with a metal coating. The steel guarantees mechanical strength. The coating, made up mainly of an alloy of Aluminum (55%), zinc (43.4%) and Si (1.6%) guarantees excellent resistance to corrosion. Zinc also gives cathodic protection of cut edges or surface scratches.

For applications requiring flat corrosion resistant steel, the answer is Aluzinc, which also demonstrates properties of unchanging surface characteristics at high temperatures up to 310 degrees Celsius. Thanks to these characteristics, Aluzinc fills the gap between zinc-coated steel and much more expensive materials such as aluminum or stainless steel.

Stainless Steel

Stainless Steel is used in luminaires which are being exposed to the harsh environments at sea, in special industry, especially chemical industries etc.

In the Glamox Canada product range you will find luminaires of stainless steel quality SIS 2343, which is identical to American Standards AISI 316, except for containing slightly more molybdenum and nickel, thus making the steel easier to form (deepdrawn).

Plastic

Depending upon the application, a variety of high quality plastic materials are used in production. Some physical characteristics are shown in the table below and the material used is specified in the individual data sheet.

	Polymethylmetacrylate 1 - PMMA	Polycarbonate 2 - PC	Polyethersulfon 3 - PES
Trade name	Acrylic Plexiglass	Makrolon Lexan	Ultrason Victex
Temperature range	-50°C - +85°C	-150°C - +130°C	-100°C - +200°C
Mechanical properties	Good under normal conditions of use	Especially tough (shock resistant)	Good under normal conditions of use
Transmissivity - colourless	92%	82%	80%
Transmissivity - white/opal	46% - 65%	46% - 65%	-
Combustibility according to UL	94-HB	94V-2 / 94V-0	94V-0
Chemical resistance - general - solvents	good not to be used	good not to be used	good not to be used

Technical

Hazardous Areas

General

In any industry where flammable materials are produced, processed or stored there is a potential risk of explosion. Although the objective is to prevent the release of gases or flammable mixtures into the atmosphere a release may take place. Therefore actions are taken to assess the probability of occurrence of hazardous areas and explosion-proof equipment must be installed in order to prevent an explosion.

Class I Flammable Gases, Vapors or Liquids

Class I Area Classification		Class I Groups	
Division 1	Zone 0	Division 1 and 2	Zone 0, 1 and 2
Where ignitable concentrations of flammable gases, vapors or liquids can exist all of the time or some of the time under normal operating conditions.	Where ignitable concentrations of flammable gases, vapors or liquids are present continuously or for long periods of time under normal operating conditions.	A (acetylene)	IIC (acetylene & hydrogen)
	Zone 1	B (hydrogen)	IIB (ethylene)
		C (ethylene)	
Division 2	Where ignitable concentrations of flammable gases, vapors or liquids are likely to exist under normal operating conditions.	D (propane)	IIA (propane)
	Zone 2	Class I Temperature Codes	
Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.	Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.	Division 1 and 2	Zone 0, 1 and 2
		T1 (≤450°C)	T1 (≤450°C)
		T2 (≤300°C)	T2 (≤300°C)
		T2A, T2B, T2C, T2D (≤280°C, ≤260°C, ≤230°C, ≤215°C)	-
		T3 (≤200°C)	T3 (≤200°C)
		T3A, T3B, T3C (≤180°C, ≤165°C, ≤160°C)	-
		T4 (≤135°C)	T4 (≤135°C)
		T4A (≤120°C)	-
		T5 (≤100°C)	T5 (≤100°C)
		T6 (≤85°C)	T6 (≤85°C)

Class I, Division 1 and 2 Protection Methods

Area	Protection Methods	Applicable Certification Documents	
		U.S.	Canada
Div. 1	- Explosionproof - Intrinsically safe (2 fault) - Purged/pressurized (Type X or Y)	UL1203 UL913 NFPA 496	CSA-30 CSA-157 NFPA 496
Div. 2	- Nonincendive - Non-sparking device - Purged/pressurized (Type Z) - Hermetically sealed - Any Class I, Div. 1 method - Any Class I, Zone 0, 1 or 2 method	UL 1604 UL 1604 NFPA 496 UL 1604 ---- UL 2279	CSA-213 CSA-213 FPA 496 CSA-213 ---- CSA-E79 Series

Class I, Zone 0, 1 and 2 Protection Methods

Area	Protection Methods	Applicable Certification Documents			
		U.S.	Canada	IEC	Europe
Zone 0	- Intrinsically safe, 'ia' (2 fault) - Class I, Div. 1 intrinsically safe (2 fault) method	UL 2279, Pt. 11 UL 913	CSA-E79-11 CSA-157	IEC 60079-11 ----	EN 50020 ----
Zone 1	- Encapsulation, 'm' - Flameproof, 'd' - Increased safety, 'e' - Intrinsically safe, 'ib' (1 fault) - Oil immersion, 'o' - Powder filling, 'q' - Purged/pressurized, 'p' - Any Class I, Zone 0 method - Any Class I, Div. 1 method	UL 2279, Pt. 18 UL 2279, Pt. 1 UL 2279, Pt. 7 UL 2279, Pt. 11 UL 2279, Pt. 6 UL 2279, Pt. 5 ---- ---- ----	CSA-E79-18 CSA-E79-1 CSA-E79-7 CSA-E79-11 CSA-E79-6 CSA-E79-5 CSA-E79-2 ---- ---- ----	IEC 60079-18 IEC 600-79-1 IEC 60079-7 IEC 60079-11 IEC 60079-6 IEC 60079-5 IEC 60079-2 ---- ---- ----	EN 50028 EN 50018 EN 50019 EN 50020 EN 50015 EN 50017 EN 50016 ---- ---- ----
Zone 2	- Nonincendive, 'nC' - Non-sparking, 'nA' - Restricted breathing, 'nR' - Hermetically sealed, 'nC' - Energy limited, 'nC' ('nL' for Europe) - Simplified pressurization, 'nP' - Any Class I, Zone 0 or 1 method - Any Class I, Div. 1 or 2 method	UL 2279, Pt. 15 UL 2279, Pt. 15 UL 2279, Pt. 15 UL 2279, Pt. 15 UL 2279, Pt. 15 ---- ---- ----	CSA-E79-15 CSA-E79-15 CSA-E79-15 CSA-E79-15 CSA-E79-15 ---- ---- ----	IEC 60079-15 IEC 60079-15 IEC 60079-15 IEC 60079-15 IEC 60079-15 ---- ---- ----	EN 50021 EN 50021 EN 50021 EN 50021 EN 50021 EN 50021 ---- ---- ----

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