



luminell®  
Light Matters

## Maritime Products and Solutions

**Premium Visibility Solutions**  
for work area illumination, SAR, Navigation and Security

# Premium Visibility Solutions

for work area illumination, SAR, Navigation and Security

Luminell Group, formed as a result of Luminell AS acquisition of Color Light AB in 2016, has the purpose to solve visibility challenges and create value for all its stakeholders. The group today consists of two companies:

## **Luminell AS, established 2010 in Ålesund, Norway**

– developing, selling and supplying critical light solutions for demanding customers – simply because Light Matters. Typical products are high quality light solutions based on LED technology – floodlights, bowlights and basic searchlights.  
[www.luminell.com](http://www.luminell.com)

## **Luminell Sweden AB, established 1998 in Halmstad, Sweden**

– developing, selling and supplying premium searchlights for demanding professional customers – Improving Light at Sea. Typical products are premium motorized searchlights for SAR, Navigation and Security using HID and LED light technology as well as Integrated Thermal (IR) camera vision solutions. [www.luminell.com](http://www.luminell.com)

The groups total product range is described in this product catalogue as presented in the table of contents and aims to give you an overall idea of the offer to the market. Both companies work continuously with product development and more products will come on a regular basis – so never hesitate to ask us about new solutions and requests.



Photo: Redningsselskapet



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**RLX™**  
**FLOODLIGHT**  
Proven endurance

**luminell®**  
Light Matters

# Powerful LED floodlights for extreme environments

- Flicker Free
- Made to handle shocks and vibrations over time
- Seawater resistant and "easy clean" design
- No maintenance
- Designed and produced in Scandinavia
- Dimmable
- Compact, robust and sealed
- Excellent EMC characteristics
- Encapsulated internal electronics
- No ballast required
- Submersible version < 40m
- Available for hazardous areas
- Corrosion class C5m



**RLX™ B**  
FLOODLIGHT



**RLX™ C**  
FLOODLIGHT

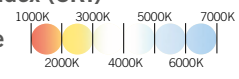


**RLX™ D**  
FLOODLIGHT




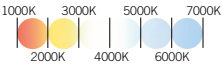



**RLX™ E**  
FLOODLIGHT

## 100-277 VAC

			
<b>Input Specifications</b>			
Input voltage range	100 - 277 VAC	100 - 277 VAC	100 - 277 VAC
Frequency range	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Rated power	80W	160W	230W
Alternative rated power	40W <sup>1</sup>	N/A	N/A
Current at 230VAC	0,35 A (80W)	0,75 A	1,1 A
Leakage current	<0,75 mA /227 VAC	<0,75 mA /227 VAC	<0,75 mA /227 VAC
Inrush current (230VAC cold start)	~65A (445 μs)	~65A (445 N/A)	~70A (1010 μs)
Light Control / DIM	Optional: 0-100KΩ or 0-10V (0-100%)	N/A	0-100KΩ or 0-10V (0-100%)
<b>Light Specifications</b>			
Initial luminous flux @ Ta 25°C	10.776	21.552	30.014
Color rendering index (CRI)	min. 70	min. 70	min. 70
Color temperature 	5.000 K (+ - 500 K) <sup>2</sup>	5.000 K (+ - 500 K) <sup>2</sup>	5.000 K (+ - 500 K) <sup>2</sup>
Beam angles	10° spot beam - 110° wide beam (see last page)		
<b>General Specifications</b>			
Startup time	1 sec.	1 sec.	1 sec.
Operating ambient temperature (Ta)	- 40°C to + 55°C	- 40°C to + 55°C	- 40°C to + 55°C
Storage temperature	- 40°C to + 80°C	- 40°C to + 80°C	- 40°C to + 80°C
Weight (apx.)	6.5 kg	10.5 kg	16 kg
Cable gland	1xM20 (6-13mm)	1xM20 (6-13mm)	1xM20 (6-13mm)
Blind caps	1xM20	1xM20	2xM20, 2xM25
IP class	IP 66/67	IP 66/67	IP 66/67
Lifetime prediction (L70) @ Ta 45°C	110.000 hrs	110.000 hrs	110.000 hrs
Corrosion class	C5m ISO 9223/12944 (for offshore and maritime environments) For more information see document "Lifetime Prediction RLX™.." at our webpage. 		
<b>Materials</b>			
Body / casing / chassis	Seawater resistant; casted, anodized, and powder coated aluminium		
Glass	Tempered glass (Polycarbonate on request)		
Bracket, bolts, nuts, etc.	Stainless steel AISI 316L (1.4404), A4		
<b>Other Compliances</b>			
Description	<b>Standard</b>		
LED modules for general lightning	IEC 62031		
Photobiological safety	IEC 62471: 2009 (Low risk - RG1)		
EMC radiated emmissions	DNVGL EMC Class A and B - IEC/EN 60945		
Radiated and conducted	MIL-STD461F/G (Only on RLX D with protection guard)		
EMC immunity	EN 61000-4-2,3,4,5,6,8,11 (Surge 4 kV)		
ETL / cETL certified	EANSI/UL1598, ANSI/UL1598A, ANSI/UL 8750 and CSA C22.2 No.250.0		

<sup>1</sup> On request<sup>2</sup> Also available in 3.000 K (Warm White)

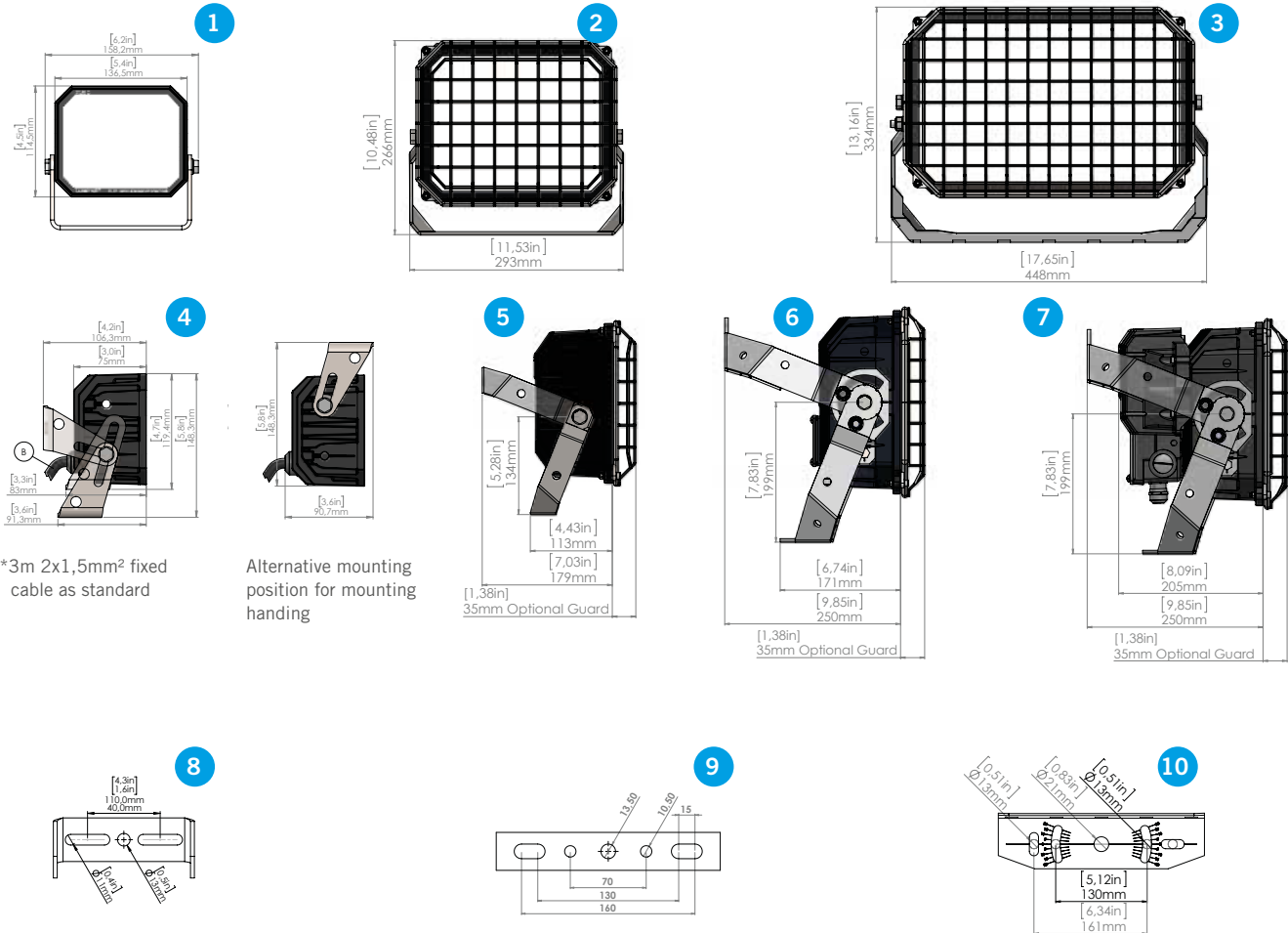
24 VDC			
			
<b>Input Specifications</b>			
Input voltage range	9 - 36 VDC	19 - 30 VDC	19 - 30 VDC
Rated power	40W	80W / 120W	160W / 240W
Current at 24V	1,6A	3,33A / 5A	6,67A / 10A
Light Control / DIM	On request	0-100KΩ or 0-10V (0-100%)	0-100KΩ or 0-10V (0-100%)
<b>Light Specifications</b>			
Initial luminous flux @ Ta 25°C	5.000	10.600 / 14.000	21.200 / 28.000
Color rendering index (CRI)	min. 70	min. 70	min. 70
Color temperature 	5.000 K (+ - 500 K)	5.000 K (+ - 500 K)	5.000 K (+ - 500 K)
Beam angles	40° and 60° beam	10° spot beam - 110° wide beam (see last page)	
<b>General Specifications</b>			
Startup time	1 sec.	1 sec.	1 sec.
Operating ambient temperature (Ta)	- 40°C to + 55°C	- 40°C to + 55°C	- 40°C to + 55°C
Storage temperature	- 40°C to + 80°C	- 40°C to + 80°C	- 40°C to + 80°C
Weight (apx.)	1,5 kg	6.5 kg	10.5 kg
Cable gland	3m 2x1,5mm <sup>2</sup> cable	1xM20 (6-13mm)	1xM20 (6-13mm)
Blind caps	N/A	1xM20	1xM20
IP class	IP 66/67/68	IP 66/67	IP 66/67
Lifetime prediction (L70) @ Ta 45°C	110.000 hrs	110.000 hrs	110.000 hrs
Corrosion class	C5m ISO 9223/12944 (for offshore and maritime environments) For more information see document "Lifetime Prediction RLX.." at our webpage. 		
<b>Materials</b>			
Body / casing / chassis	Seawater resistant; casted, anodized, and powder coated aluminium		
Glass	Tempered glass (Polycarbonate on request)		
Bracket, bolts, nuts, etc.	Stainless steel AISI 316L (1.4404), A4		
<b>Other Compliances</b>			
Description	<b>Standard</b>		
LED modules for general lighting	IEC 62031		
Photobiological safety	IEC 62471: 2009 (Moderate risk - RG2) Do not stare at light source		
EMC radiated emissions	DNVGL EMC Class A and B - IEC/EN 60945		
Radiated and conducted	MIL-STD461F/G		
EMC immunity	EN 61000-2,3,4,6,8 (Surge 2 kV)		
ETL / cETL certified	ANSI/UL1598, ANSI/UL1598A, ANSI/UL 8750 and CSA C22.2 No.250.0		





**Dimensions and Mounting**

Front view	Fig.1	Fig.2	Fig.3	Fig.3
Side view	Fig.4	Fig.5	Fig.6	Fig.7
Bracket	Fig.8	Fig.9	Fig.10	Fig.10



**Options and Accessories**

- Anti-Ice kit
- Light color available in: red, green, blue, amber, cool white (12.000 K), warm white (3.000 K) and combinations of these
- Specialized products on request
- Casing available in other color as option/upon request
- Available with fixed cable



Protection grid



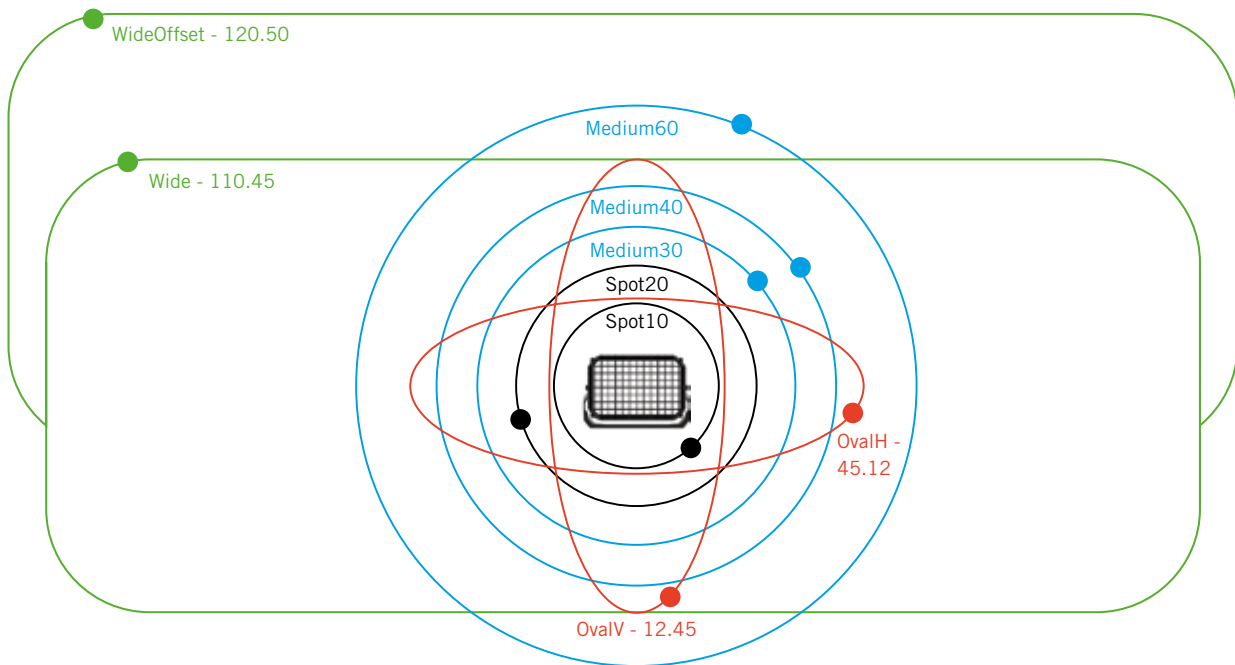
Submersible RLX™ D  
IP68 < 40m



Damper (Pendulum mounting)

**RLX™ Series, standard beam alternatives**

Beam group	Beam code	Light projection – diameter, 10m distance	Color code
Spot beams	Spot10	2m	●
	Spot20	3m	
Medium beams	Medium30	5,4m	●
	Medium40	7m	
	Medium60	10m	
Wide beams	Wide	28m	●
	WideOffset	34m	
Oval beams	OvalH	8,2 x 2m	●
	OvalV	2 x 8,2m	



Specifications are subject to change at any point without prior notice.



# Zone 1 & 2 LED floodlights for extreme environments



- ATEX and IECEx approved. Zone 1, 2, 21 and 22
- Powerful light performance
- Compact and low weight
- Designed to be appreciated by the installer and the end user
- Wide operating temperatures

- Temperature classes T6/T5/T4/T3
- Extreme lifetime
- Light efficiency up to 80% savings from conventional
- No flame path, no maintenance
- MIL-STD-461, remarkable EMC/EMI characteristics
- Crafted for demanding marine and offshore conditions



Design protected

RLX™ Cx  
Series



Design protected

RLX™ Dx  
Series



Design protected

RLX™ DEx  
Series

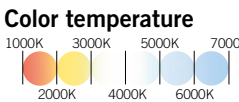
Zone 1 and 21

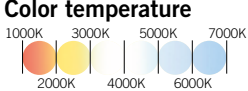


Zone 2



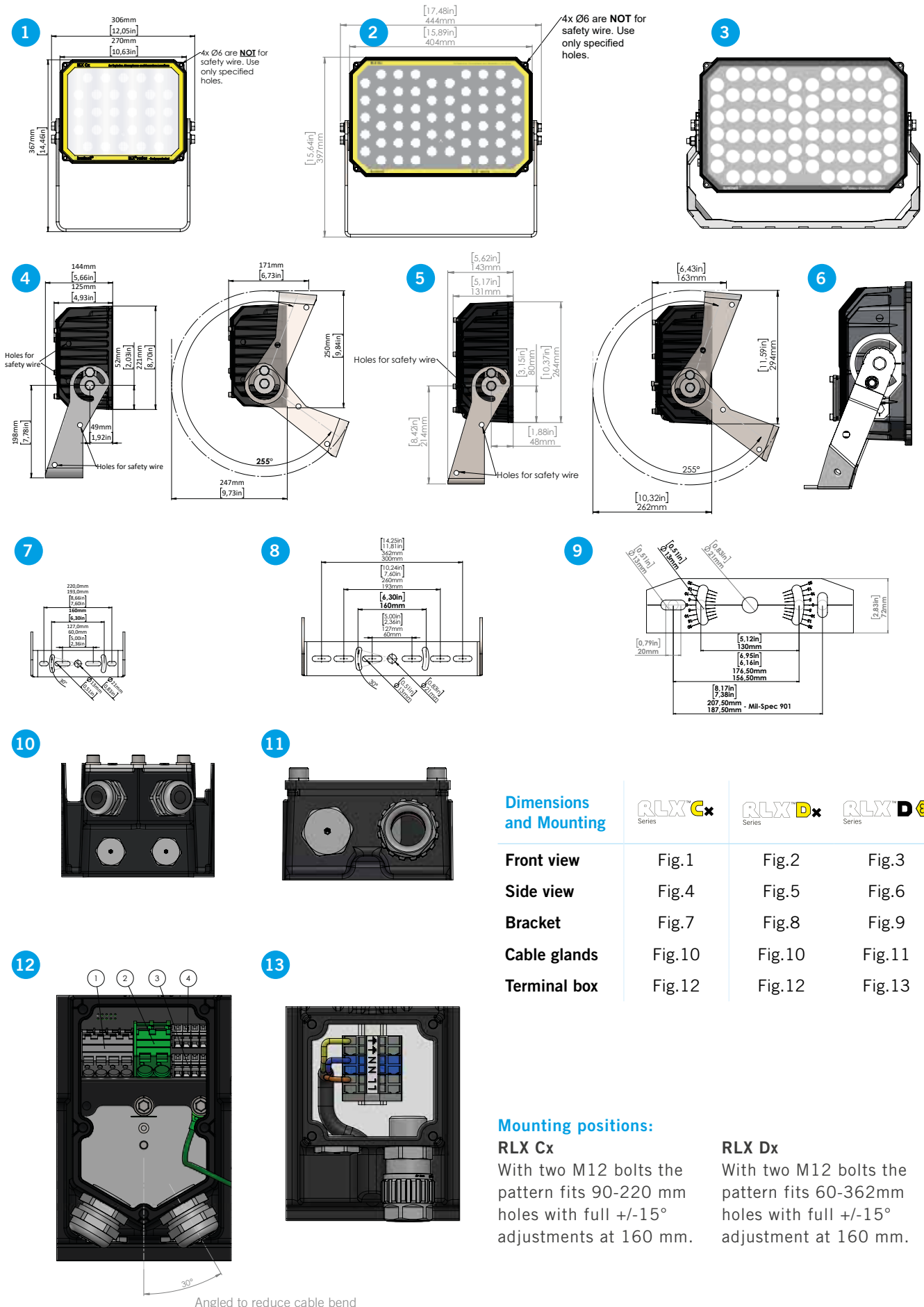
## RLX Cx

Electrical Specifications	40 W	80 W	120 W	160 W
Input voltage range	100 - 277 VAC, 100 - 300 VDC			
Frequency range	50 - 60 Hz			
Power factor @ 230 VAC	$\cos \phi < 0.9$			
Current @ 230 VAC	0,17 A	0,35 A	0,52 A	0,7 A
Leakage current	0,5 mA RMS @ 230 VAC 50 Hz			
Recommended fuse	MCB16 type C for up to 10 floodlights connected in parallel			
Dim control interface	(10-100%) 0 - 100 k $\Omega$ , 4 - 20 mA or 0 - 10 VDC			
Battery backup	Prepared for Luminell battery backup accessory			
Terminal dimensions	Mains: 0,2 - 6 mm <sup>2</sup> , Grounds: 0,2 - 16 mm <sup>2</sup> , Dim and batteries: 0,08 - 2,5 mm <sup>2</sup> – spring terminals with looping (sketch available under “Dimensions”)			
<b>Light Specifications</b>				
Initial luminous flux	6.589	11.290	15.342	19.021
Lumen per watt	165	141	128	119
100% light output	Ta < 55°C		Ta < 45°C	
Color rendering index (CRI)	> 70			
Color temperature	 5.000 K ( 3.000 K on request)			
Beam angles (degrees)	Spot 15°, Medium 40°, Medium 60°, Medium 60° x 40°, Wide 80° x 60°, Oval 45° x 15°, See illustration on page 6 for more information. Photometric files available on request.			
<b>Ex and Environmental</b>				
Ambient temperature (Ta)	- 55°C to + 55°C			
Storage temperature	- 55°C to + 80°C			
Markings	Zone 1, 2, 21, 22			
ATEX classification	CE 2585 Ex II 2G II 2D			
IEC classification gas	Ex eb mb op is IIC T6 Gb	Ex eb mb op is IIC T4, T5** Gb	Ex eb mb op is IIC T4 Gb	Ex eb mb op is IIC T3, T4* Gb
IEC classification dust	Ex tb op is IIIC T85 Db	Ex tb op is IIIC T135, T100** Db	Ex tb op is IIIC T135 Db	Ex tb op is IIIC T200, T135* Db
Classification with alternative ambient temperature	*T4, T135 @Ta <40°C **T5, T100 @TA <50°C			
<b>General Specifications</b>				
Startup time	1 second			
Weight	9,7 kg (approx.)			
Cable glands	2xM25 10-18mm Through Gland 2xM20 Blind Cap Other glands and blind caps on request.			
IP class	IP 66/67			
L70 (70% light output)	L70 @ Ta 45°C 180k hours	L70 @ Ta 45°C 120k hours	L70 @ Ta 45°C 100k hours	L70 @ Ta 45°C 80k hours
	Will increase with lower ambient temperatures (Ta)			
Corrosion class	C5 m ISO 9223/12944 (for offshore and maritime environments)			

RLX Dx				RLX D Ex
Electrical Specifications	80 W	160 W	240 W	160 W
Input voltage range	100 - 277 VAC, 100 - 300 VDC			100 - 277 VAC
Frequency range	50 - 60 Hz			
Power factor @ 230VAC	$\cos \phi < 0.98$			$\cos \phi < 0.95$
Current @ 230VAC	0,35 A	0,7 A	1,04 A	0,75 A
Leakage current	0,5 mA RMS @ 230 VAC 50 Hz			<0,75 mA @ 227 VAC
Recommended fuse	MCB16 type C for up to 10 floodlights connected in parallel			
Dim control interface	(0-100%) 0 - 100 k $\Omega$ , 4 - 20 mA or 0 - 10 VDC			N/A
Battery backup	Prepared for Luminell battery backup accessory			N/A
Terminal dimensions	Mains: 0,2 - 6 mm <sup>2</sup> , Grounds: 0,2 - 16 mm <sup>2</sup> , Dim and batteries: 0,08 - 2,5 mm <sup>2</sup> – spring terminals with looping (sketch available under “Dimensions”)			Mains and grounds: 0,08 - 2,5 mm <sup>2</sup>
<b>Light Specifications</b>				
Initial luminous flux	13.178	22.580	30.684	21.552
Lumen per watt	165	141	128	134
100% light output	Ta < 55°C			
Color rendering index (CRI)	> 70			
Color temperature	 5.000 K ( 3.000 K on request)			5.000 K
Beam angles (degrees)	Spot 15°, Medium 40°, Medium 60°, Medium 60° x 40°, Wide 80° x 60°, Oval 45° x 15°, See illustration on page 6 for more information. Photometric files available on request.			10° spot beam - 110° wide beam
<b>Ex and Environmental</b>				
Ambient temperature (Ta)	- 55°C to + 55°C			- 25°C to + 55°C
Storage temperature	- 55°C to + 80°C			- 25°C to + 80°C
Markings	Zone 1, 2, 21, 22			Zone 2
ATEX classification	CE 2585 Ex II 2G II 2D			CE 0044 Ex II 3G Ex nA IIC T5 Gc
IEC classification gas	Ex eb mb op is IIC T6 Gb	Ex eb mb op is IIC T5 Gb	Ex eb mb op is IIC T4 Gb	N/A
IEC classification dust	Ex tb op is IIIC T85 Db	Ex tb op is IIIC T100 Db	Ex tb op is IIIC T135 Db	N/A
Classification with alternative ambient temperature	N/A	N/A	N/A	N/A
<b>General Specifications</b>				
Startup time	1 second			
Weight	15,2 kg			10,5 kg
Cable glands	2xM25 10-18mm Through Gland 2xM20 Blind Cap Other glands and blind caps on request.			1xM20 9-16mm Through Gland 1xM20 Blind Cap
IP class	IP 66/67			
L70 (70% light output)	L70 @ Ta 45°C 180k hours	L70 @ Ta 45°C 120k hours	L70 @ Ta 45°C 100k hours	L70 @ Ta 45°C 110k hours
	Will increase with lower ambient temperatures (Ta)			
Corrosion class	C5 m ISO 9223/12944 (for offshore and maritime environments)			



## Dimensions and Installation



### Dimensions and Mounting

	RLX <sup>™</sup> Cx Series	RLX <sup>™</sup> Dx Series	RLX <sup>™</sup> Dx <sup>Ex</sup> Series
Front view	Fig.1	Fig.2	Fig.3
Side view	Fig.4	Fig.5	Fig.6
Bracket	Fig.7	Fig.8	Fig.9
Cable glands	Fig.10	Fig.10	Fig.11
Terminal box	Fig.12	Fig.12	Fig.13

### Mounting positions:

#### RLX Cx

With two M12 bolts the pattern fits 90-220 mm holes with full +/-15° adjustments at 160 mm.

#### RLX Dx

With two M12 bolts the pattern fits 60-362mm holes with full +/-15° adjustment at 160 mm.

## Materials

<b>Body / casing / chassis</b>	Seawater resistant; casted, anodized and powder coated aluminium
<b>Glass</b>	Tempered glass
<b>Bracket, bolts, nuts etc.</b>	Stainless steel AISI 316L (1.4404), A4

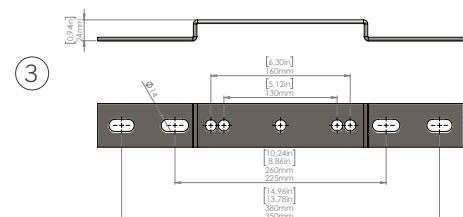
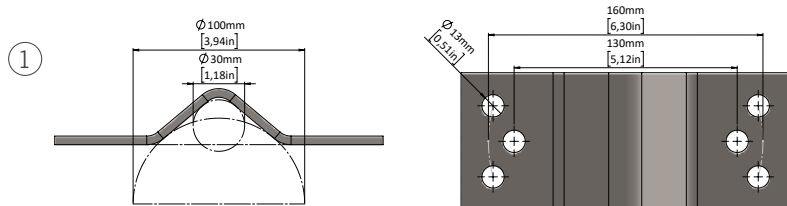
## Approvals and Declarations

<b>Low Voltage Directive (LVD) 014/35/EU</b>	EN 62031:2008/A1:2013/A2:2015 – LED Modules for general lighting
<b>Photobiological safety</b>	EN 62471:2008 – Photobiological safety of lamps and lamp systems
<b>EMC and immunity</b>	EN 55015:2013 – Radiated and conducted emissions EN 60945:2002 – Marine Equipment. EMC Immunity, Radiated and Conducted Emissions (not on RLX D Ex) MIL-STD461F CE102 RE102 - Navy Top Deck (not on RLX D Ex) MIL-STD461F CE102 RE102 - Navy Mobile & Army (not on RLX D Ex)
<b>Explosion proof standards RLX Cx and RLX Dx</b>	IEC/EN 60079-0:2012 – Equipment General Requirements IEC/EN 60079-7:2015 – Equipment protection by increased safety “e” IEC/EN 60079-18:2015 – Equipment protection by type of protection “m” IEC/EN 60079-28:2015 – Protection of equipment and transmission systems using optical radiation “op is” IEC/EN 60079-31:2014 – Equipment dust ignition protection by enclosure “t”
<b>Explosion proof standards RLX D Ex</b>	EN 60079-0:2012 – Equipment General Requirements EN 60079-15:2010 – Equipment protection by type of protection “n”



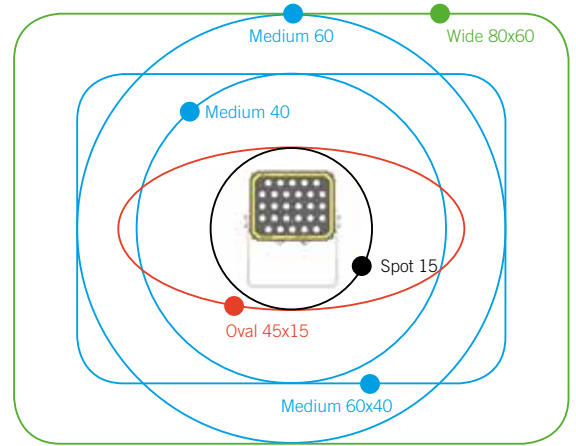
## Options and Accessories

- ① Pole mount bracket Ø30-Ø100
- ② Protection Guard Set
- ③ Retrofit bracket 130, 160 to 225-260, 350-380
- ④ Fixed and moulded terminal cable.  
Only on RLX D Ex.



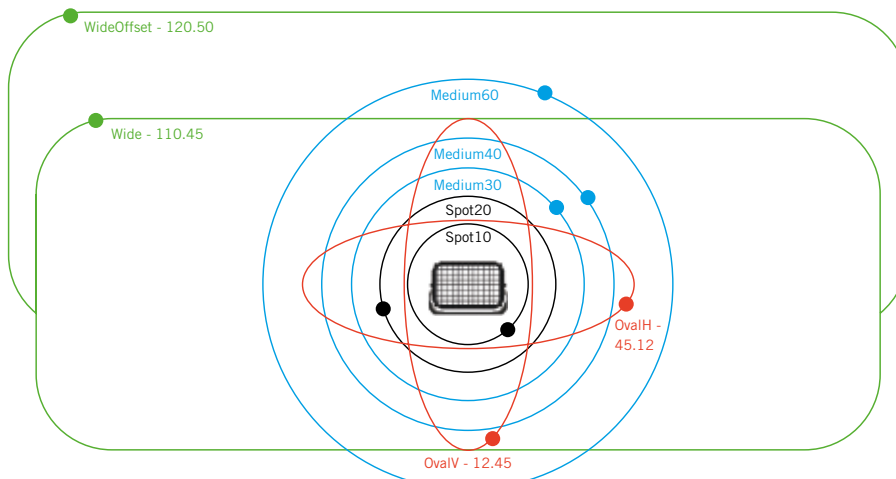
### RLX Cx and RLX Dx Standard Beam Alternatives

Beam group	Beam code	Light projection – diameter @ 10m distance	Color code
Spot beams	Spot 15	2,6 m	●
Medium beams	Medium 40	7 m	●
	Medium 60	10 m	
	Medium 60 x 40	10 x 7 m	
Wide beams	Wide 80 x 60	14 x 10,5 m	●
Oval beams	Oval 45 x 15	8 x 2,6 m	●



### RLX D Ex Standard Beam Alternatives

Beam group	Beam code	Light projection – diameter @ 10m distance	Color code
Spot beams	Spot 10	2 m	●
	Spot 20	3 m	
Medium beams	Medium 30	5,4 m	●
	Medium 40	7 m	
	Medium 60	10 m	
Wide beams	Wide	28 m	●
	Wide Offset	34 m	
Oval beams	Oval H	8,2 x 2 m	●
	Oval V	2 x 8,2	







Design protected

**"This is the best bowlight I've ever seen. I see waves and objects in the water on very long distance – it is simply amazing!"**


Capt. Eldar Giske, M/S Ekspressen – Norled AS

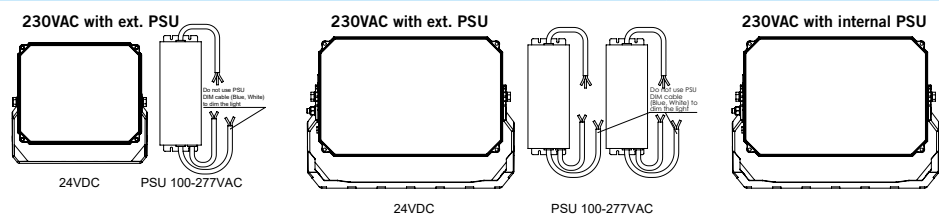
The new BLX™ Bowlight is designed to improve the ability to see during navigation and maneuvering at night. By combining the proven technology of the RLX Series with practical testing of the optical features, the end result is a powerful bowlight that will increase safety and endure in very harsh environments.

#### Key Features

- Detects bouy reflex on 1 NM
- Dimmable
- BLX™ design – compact, sealed and highly resistant to shock and vibrations
- Proven endurance
- Available in 24VDC and 100-277VAC
- Maintenance free
- Instant light
- Easy clean design

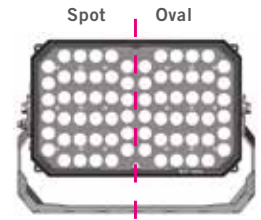


Input Specifications	BLX™ C	BLX™ D	BLX™ E
<b>Input voltage range</b>	22 – 30 VDC	22 – 30 VDC	100 - 277 VAC (internal PSU)
<b>Alternative voltage range</b>	100 – 277 VAC (external PSU)	100 – 277 VAC (external PSU)	N/A
<b>Frequency range 230VAC</b>	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
<b>Rated power</b>	250W @ 24VDC	500W @ 24VDC	360W @ 230VAC
<b>Current @ 24VDC</b>	10,5 A	2x 10,5 A	N/A
<b>Current @ 230VAC</b>	1,1 A (external PSU)	2,2 A (2x 1,1A for each external PSU)	1,55 A (internal PSU)
<b>DIM</b>	0-100% using 0-100 kΩ or 0-10VDC.	0-100% using 0-100 kΩ or 0-10VDC. Spot/Oval can be controlled separately.	0-100% using 0-100 kΩ or 0-10VDC. Spot OR Oval must be selected remotely from control gear.
<b>Light Specifications</b>			
<b>Initial luminous flux @ Ta 25°C</b>	23.800	48.800 (23.800 + 25.000)	35.000
<b>Beam angles</b>	Spot 8 Oval H Combination of Spot 8 and Oval H	Spot 8 Oval H Spot 8 / Oval H	Spot 8 / Oval H
<b>Candela</b>	278.000 Cd	740.000 Cd (645.000 + 95.000)	532.000 Cd
<b>Range (1 lx)</b>	527 m	860 m	730 m
<b>Tested range</b>	Detects bouy reflex on 0,5 NM (926 m)	Detects bouy reflex on 1 NM (1.852 m)	Detects bouy reflex on 0,7 NM (1.297 m)
<b>Color rendering index (CRI)</b>	70 (min.)	70 (min.)	70 (min.)
<b>Color temperature</b>	5.000 - 8.000 K	5.000 - 8.000 K	5.000 - 8.000 K
<b>Alternative color temperature</b>	2.700 K - 3.000 K	2.700 K - 3.000 K	2.700 K - 3.000 K
<b>General Specifications</b>			
<b>Startup time</b>	1 sec.	1 sec.	1 sec.
<b>Operating ambient temperature (Ta)</b>	- 40°C to + 55°C	- 40°C to + 55°C	- 40°C to + 55°C
<b>Storage temperature</b>	- 40°C to + 80°C	- 40°C to + 80°C	- 40°C to + 80°C
<b>Weight (apx.)</b>	5,6 kg	9,5 kg	16 kg
<b>Weight external PSU (apx.)</b>	1 x 2 kg	2 x 2 kg	N/A
<b>Cable gland</b>	1xM20 (6-13mm)	2xM20 (6-13mm)	2xM20 (6-13mm)
<b>IP class</b>	IP66/67	IP66/67	IP66/67
<b>Lifetime housing and materials</b>	Made to endure more than 10 years. Corrosion class C5m ISO 9223/12944 (for offshore and maritime environments) verified by 		
<b>Lifetime LED and electronics</b>	L70 @ >25°C ~57.900h	L70 @ >25°C ~57.900h	L70 @ >25°C ~57.900h
<b>Cable lengths</b>	At high ambient temperatures and no wind the BLX™ Temperature Protection Control will limit the light output to ensure lifetime.		
<b>Cable lengths</b>	Recommended cable length between 24VDC PSU and bowlight is 15m on BLX™ C/D (250W per section). Specified lengths is applicable with use of 2,5mm2 cross section supply cable. This is a general recommendation. It is the installer's responsibility to assess this on each installation.		



**Materials**

<b>Body / casing / chassis</b>	Seawater resistant; casted, anodized and powder coated aluminium
<b>Glass</b>	Tempered glass
<b>Bracket, bolts, nuts, etc.</b>	Stainless steel AISI 316L (1.4404), A4

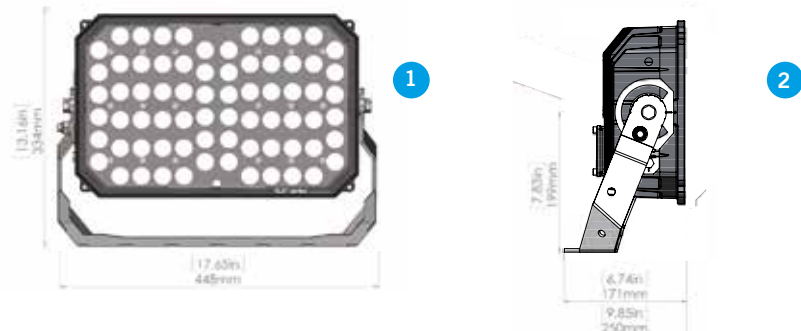


**Safety Standards**

Description	Standard
LED modules for general lightning	EN 62031:2008/A1:2013/A2:2015
Photo biological safety of lamps and lamp systems	EN 62471:2008
EMC radiated and conducted	EN 55015:2013 and MIL-STD461F/G Navy Top Deck
EMC marine radiated and conducted (using screened cable)	EN/IES 60945:2002
ETL / cETL certified	ANSI/UL1598, ANSI/UL1598A, ANSI/UL 8750 and CSA C22.2 No.250.0

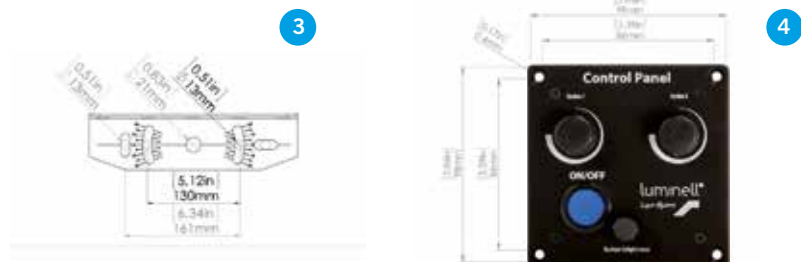
**Dimensions and Mounting**

- Front view** Fig. 1
- Side view** Fig. 2
- Bracket** Fig. 3
- Control panel** Fig. 4



**Options and Accessories**

- Protection grid
- Anti-Ice kit
- Control panel

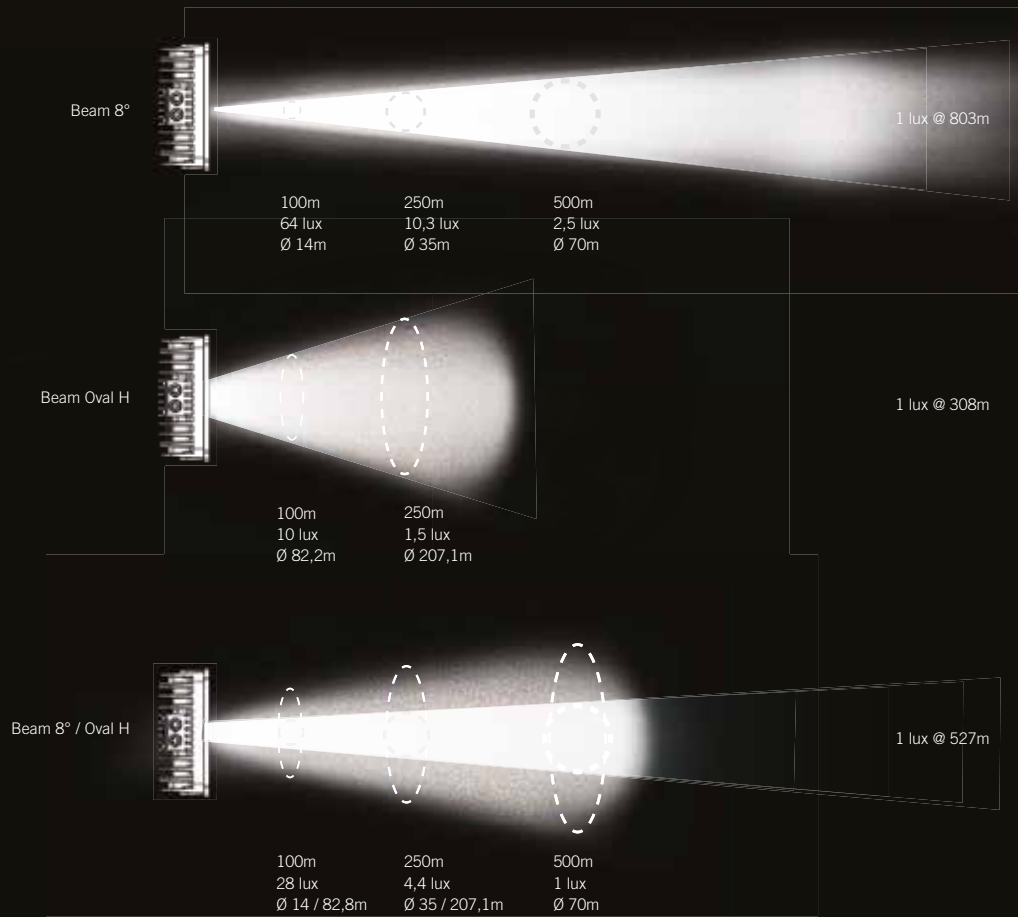


**Control Panel**

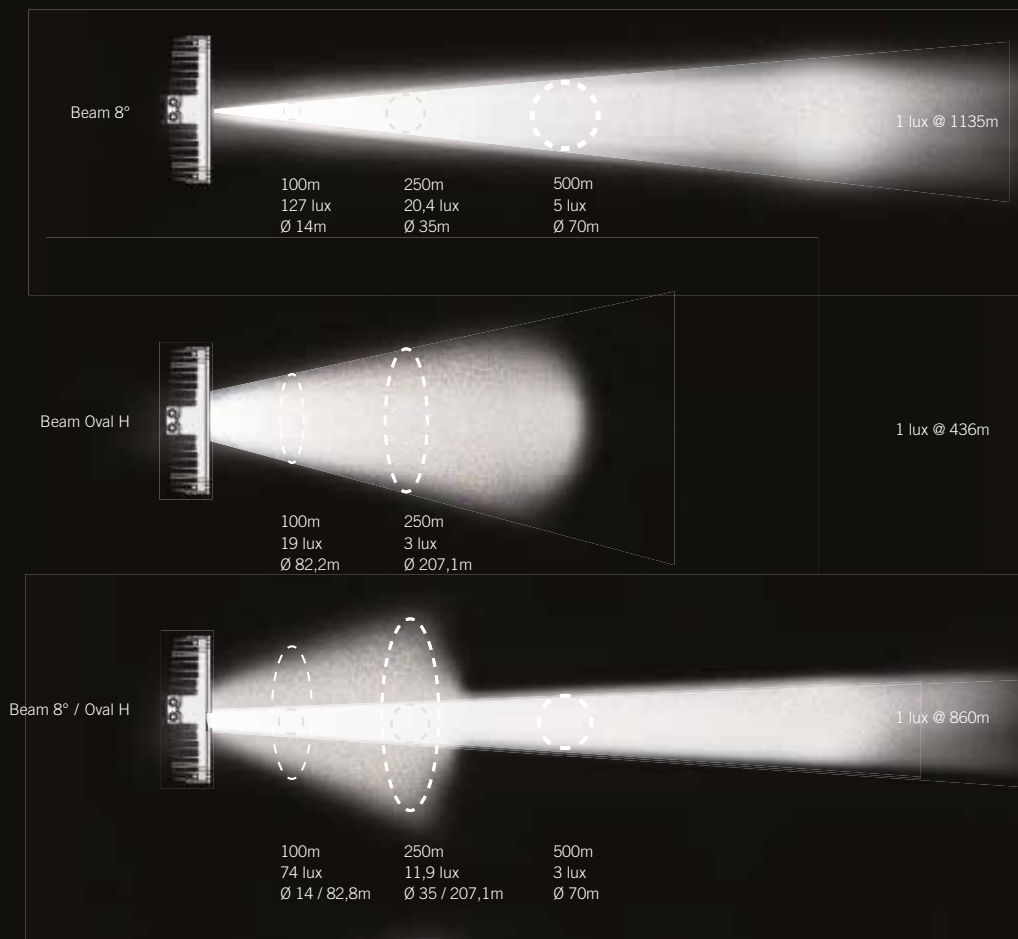
- Multiple bowlights can be controlled from the same panel
- Individual dimming of each section
- Master ON/OFF
- Dimmable panel light (require 24VDC/VAC)
- Select individual dimming range on spot and oval (0-100% or 10-100%)
- Rele-port



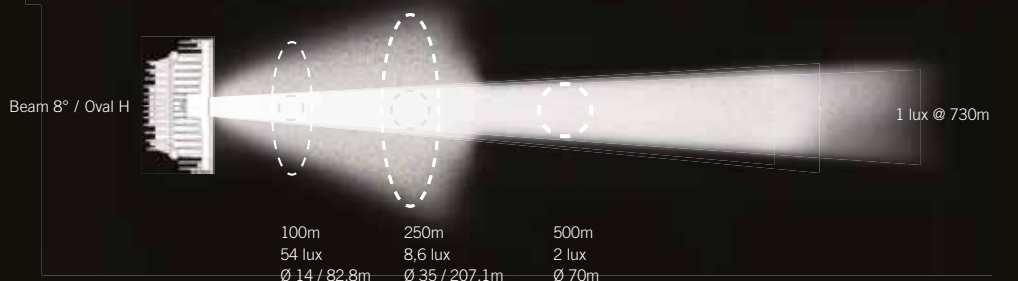
### Beam illustration BLX™ C



### Beam illustration BLX™ D



### Beam illustration BLX™ E





Specifications are subject to change at any point without prior notice.



The SLX™ Searchlight module are created to push limits and maximize the potential in LED technology and optical performance.

Luminell SLX™ 220W LED Searchlight.  
Distance: 257 meters.



«This is a perfect light for us! Regarding light beam, power and range there is nothing to complain about! The light always works and it get alot of beating in rough Northern-Sea at our small vessel traveling at 30 knots.»

Asbjørn Thomassen, RS-138 (Search and rescue Vessel)



### Key Features

- Instant light
- No maintenance
- Upgrade your searchlight w./ different bracket kits available
- One or two different beam types per SLX™ module
- Very even light distribution
- Dimmable – perfect in snow, fog or similar conditions
- Compact, sealed and resistant to vibrations and shocks
- Available in 24VDC and 100-277VAC
- Proven endurance

The SLX™ Series LED searchlight modules, is made to replace conventional searchlight modules to increase light performance of your searchlight and get rid of costly and annoying maintenance. It is crafted to give superior value for the user with a powerful, compact and durable design that makes the investment to pay back to the fullest.

One SLX™ searchlight unit will enable you detect an object on a distance up to 2 600 meters depending on chosen beam type for your need.

It is made to be mounted fixed or on any suitable existing movable platform. Adapter bracket kit for several movable searchlight platforms can be delivered with the SLX™ searchlight module.

Maybe it's time to upgrade your searchlight so it really can start making a difference for you?

Light Matters!

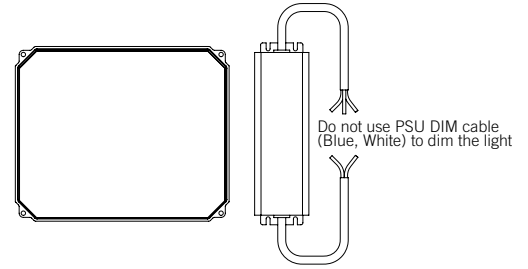


### Input Specifications

- Input voltage range**
- Alternative voltage range**
- Frequency range**
- Current @ 24 VDC**
- Current @ 230 VAC**
- DIM**

### SLX™ Module

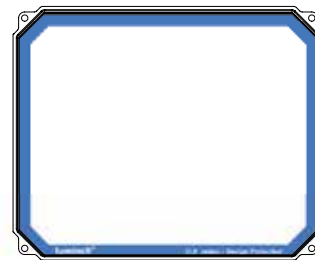
- 22 – 30 VDC
- 100 – 277 VAC (external PSU)
- 50 – 60 Hz
- < 6,25 A
- < 0,7 A
- 0-100 kΩ or 0-10VDC



### General Specifications

- Startup time**
- Operating ambient temperature (Ta)**
- Storage temperature**
- Weight (apx.)**
- Weight external PSU (apx.)**
- Cable gland**
- Blind caps**
- IP class**
- Lifetime prediction (L70) @ Ta 25° C**
- Corrosion class**
- Cable lengths**

- 1 sec.
- 40°C to + 55°C
- 40°C to + 80°C
- 5 kg
- 1 x 1 kg
- 2xM20 (6-13mm)
- None
- IP66/67
- 75.000 hrs
- C5m ISO 9223/12944 (for offshore and maritime environments)



4° beam or 6+° beam

Recommended cable length between 24VDC PSU and SLX™ C is 20m (150W per section). Specified lengths is applicable with use of 2,5mm<sup>2</sup> cross section supply cable. This is a general recommendation. It is the installer's responsibility to assess this on each installation.

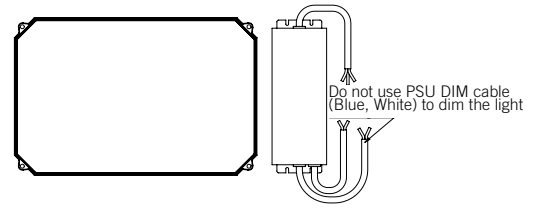
Product	SLX™ C 24V 4	SLX™ C 24V 6
<b>Model no.</b>	L0210-1	L0210-2
<b>Light beam angle</b>	4°	6+°
<b>Total intensity Cd</b>	875 000 Cd	875 000 Cd
<b>Range (1 lux/0,25 lux)</b>	935m / 1870m	935m / 1870m
<b>Color rendering (CRI)</b>	70 (min.)	70 (min.)
<b>Color temperature (CCT)</b>	5000-8000 Kelvin	5000-8000 Kelvin
<b>Power</b>	105 W	150 W
<b>Optional AC PSU Acc.</b>	1x S0093	1x S093
<b>Comments:</b>	<ul style="list-style-type: none"> <li>- 1x power input</li> <li>- 1x PSU is needed for AC installations</li> <li>- If the SLX™ is powered using an external VAC power supply the used power will increase by approx. 10%.</li> </ul>	

## Input Specifications

**Input voltage range**  
**Alternative voltage range**  
**Frequency range**  
**Current @ 24 VDC**  
**Current @ 230 VAC**  
**DIM**

## SLX™ Module

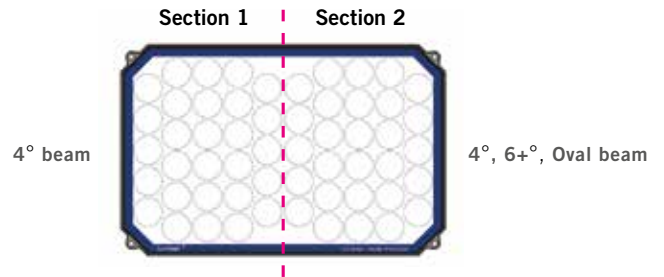
22 – 30 VDC  
 100 – 277 VAC (external PSU)  
 50 – 60 Hz  
 < 10,7 A  
 < 1,1 A  
 0-100 kΩ or 0-10VDC



## General Specifications

**Startup time**  
**Operating ambient temperature (Ta)**  
**Storage temperature**  
**Weight (apx.)**  
**Weight external PSU (apx.)**  
**Cable gland**  
**Blind caps**  
**IP class**  
**Lifetime prediction (L70) @ Ta 25° C**  
**Corrosion class**  
**Cable lengths**

1 sec.  
 - 40°C to + 55°C  
 - 40°C to + 80°C  
 8 kg  
 1 x 2 kg  
 2xM20 (6-13mm)  
 None  
 IP66/67  
 75.000 hrs  
 C5m ISO 9223/12944 (for offshore and maritime environments)



Recommended cable length between 24VDC PSU and SLX™ D is 15m (255W per section). Specified lengths is applicable with use of 2,5mm<sup>2</sup> cross section supply cable. This is a general recommendation. It is the installer's responsibility to assess this on each installation.

Product	SLX™ D 24V 4/4	SLX™ D 24V 4/6	SLX™ D 24V 4/Oval
<b>Model no.</b>	L0084-1	L0084-2	L0084-3
<b>Light beam angle (Section 1/2)</b>	4°/4°	4°/6+°	4°/Oval H
<b>Total intensity Cd</b>	1,75 mCd	1,75 mCd	0,950 mCd
<b>Range (1 lux/0,25 lux)</b>	1322m / 2645m	1322m / 2645m	975m / 1950m
<b>Color rendering (CRI)</b>	70 (min.)	70 (min.)	70 (min.)
<b>Color temperature (CCT)</b>	5000-8000 Kelvin	5000-8000 Kelvin	5000-8000 Kelvin
<b>Power</b>	210 W	255 W	255 W
<b>Optional AC PSU Acc.</b>	1x S0117	1x S0117	1x S0117
<b>Comments:</b>	- 2x sections linked together - 1x power input - 1x PSU is needed for AC installations	- 2x sections, each controlled separately. - 1x power input - 1x PSUs is need for AC installations - Control panel is highly recommended!	
	- If the SLX™ is powered using an external VAC power supply the used power will increase by approx. 10%.		

**Materials**

<b>Body / casing / chassis</b>	Seawater resistant; casted, anodized and powder coated aluminium
<b>Glass</b>	Tempered glass
<b>Bracket, bolts, nuts, etc.</b>	Stainless steel AISI 316L (1.4404), A4

**Standards for SLX™ Searchlight**

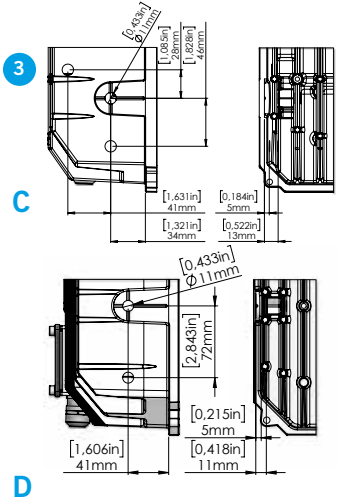
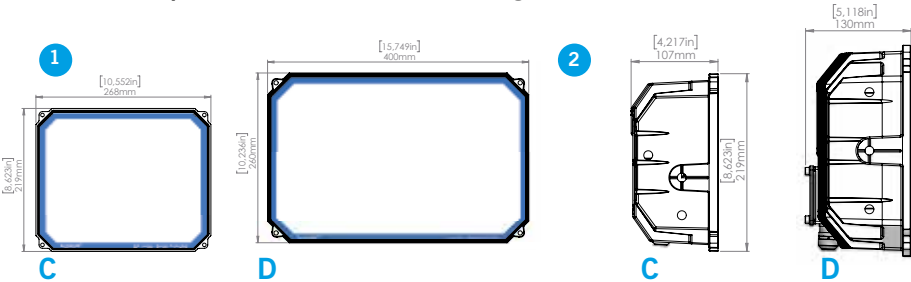
Description	Standard
LED modules for general lightning	EN 62031:2008/A1:2013/A2:2015
Photo biological safety of lamps and lamp systems	EN 62471:2008
EMC radiated and conducted	EN 55015:2013 and MIL-STD461F/G Navy Top Deck
EMC marine radiated and conducted (using screened cable)	EN/IEC 60945:2002
ETL / cETL certified	ANSI/UL1598, ANSI/UL1598A, ANSI/UL 8750 and CSA C22.2 No.250.0

**Dimensions and Mounting**

- Front view
- Side view
- Side view up-close

**SLX™ Searchlight (fixed)**

- Fig. 1
- Fig. 2
- Fig. 3



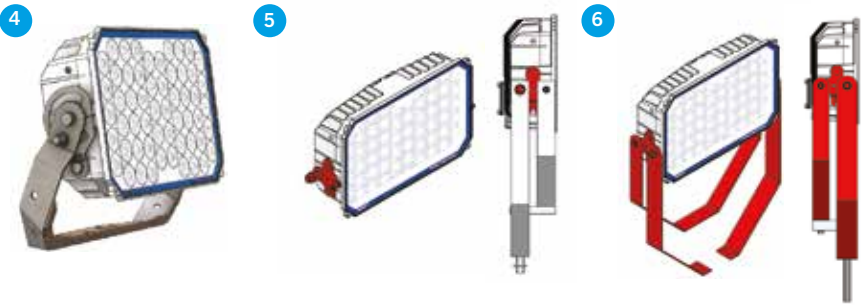
**Bracket Options SLX™ D**

- L0413 Marine Bracket
- L0378 Adapter Bracket D Type 1.
- L0379 Adapter Bracket D Type 2.

**Compatible with**

- «Seematz» 351
- «Norselight» SH 260-470, B-BH

- Fig. 4
- Fig. 5
- Fig. 6



Control panel

**Options and Accessories**

- Control panel
- Protection grid
- Anti-ice kit

**Control Panel**

- Multiple searchlights can be controlled from the same panel
- Individual dimming of beams
- Master ON/OFF
- Dimmable panel light (require 24VDC/VAC)
- Select individual dimming range on beams (0-100% or 10-100%)
- Rele-port

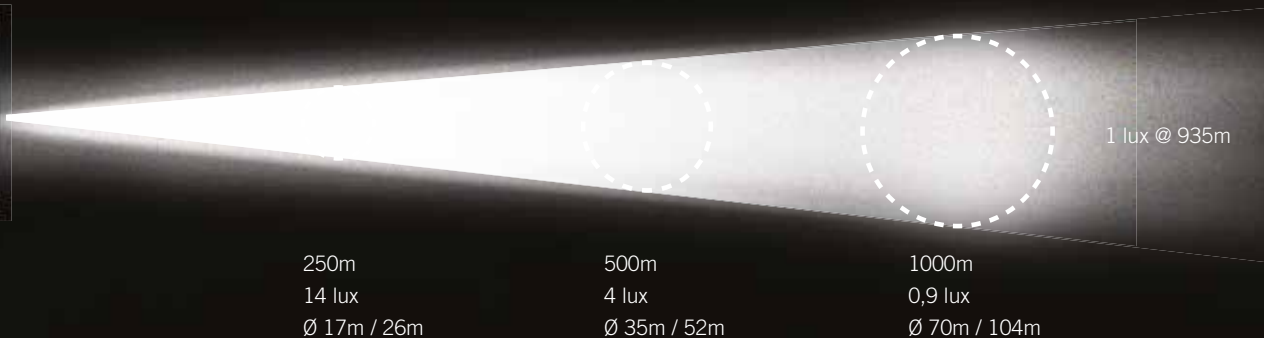
Beam illustration **SLX™ C**  
SEARCHLIGHT

Top view

Beam 4°



Beam 6+°



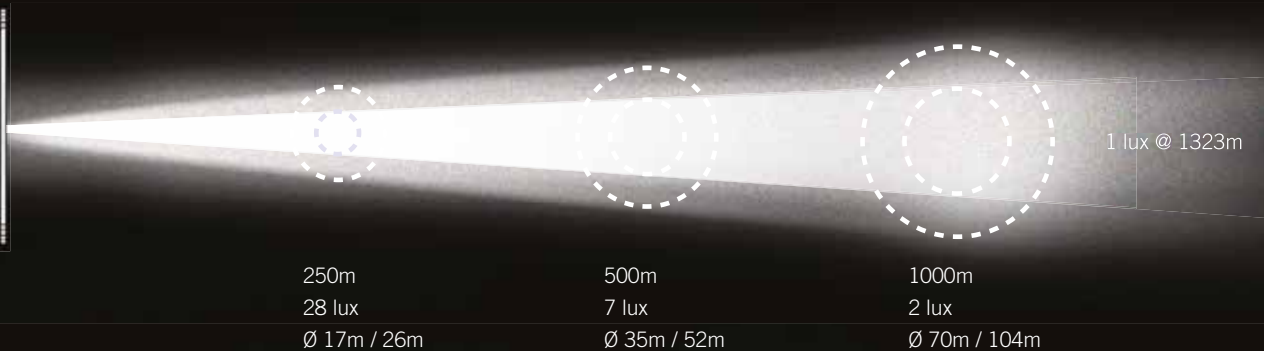
Beam illustration **SLX™ D**  
SEARCHLIGHT

Top view

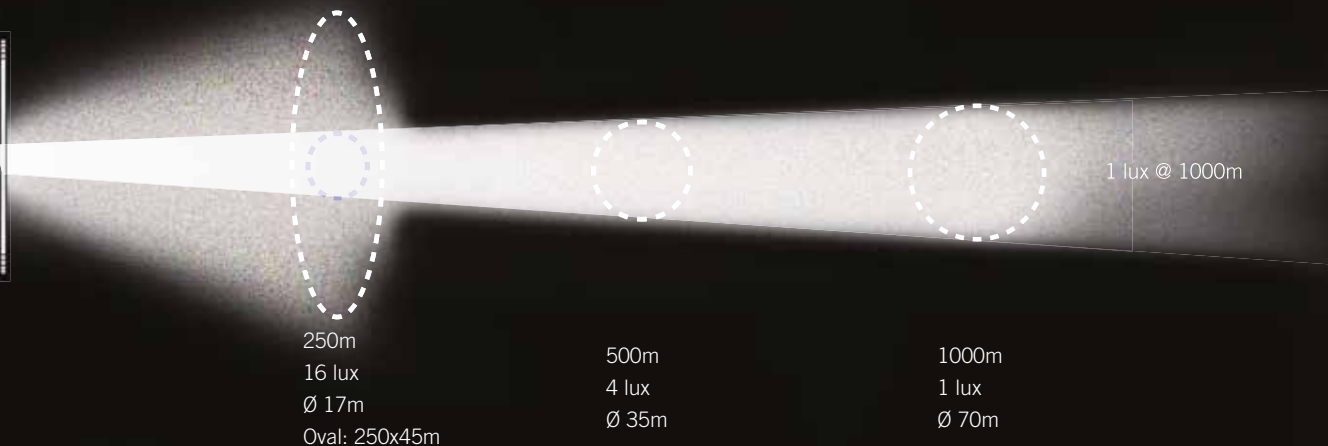
Beam 4°/4°



Beam 4°/6+°



Beam 4°/Oval







..... COMPARISON .....

Luminell SLX™ 220W LED searchlight

Traditional 500W halogen searchlight



# CL/CLITE Series system overview

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Our searchlight system can be set up with different levels of complexity - from a Basic solution to a more advanced control integration. The one thing combining them all is that you as a customer should get the solution you need for Improving Light at Sea. Important to know is also that our systems are expandable - easy to upgrade to add solutions and functionality later on.

## The Basic Solution

Contains a searchlight, electronic control box and an operator panel. Very straight forward set up. Place the searchlight in a good location to reach as much area as possible around your vessel, place the electronic control box in a proper environment and finally place the operator epanel where it suits the purpose best - for Search and Rescue, for navigation support, for surveillance or as worklight.

Good optional software upgrade is our Package 2 (Sweep, fixed positions, surveillance) increasing automatic operations simplifying your work. search and rescue, for navigation support, for surveillance or as worklight.



## Customized control solutions

We have developed less advanced one button control functions driven by specific customer demands.

Helideck control button – press the button, the searchlight lights up and goes to a pre-set position.

Press the button again – the searchlight lights off and goes back to a park position.

Time efficient and simplify the operation.

Another example is the solution RHOTHETA Radio Detection Finder control integration.

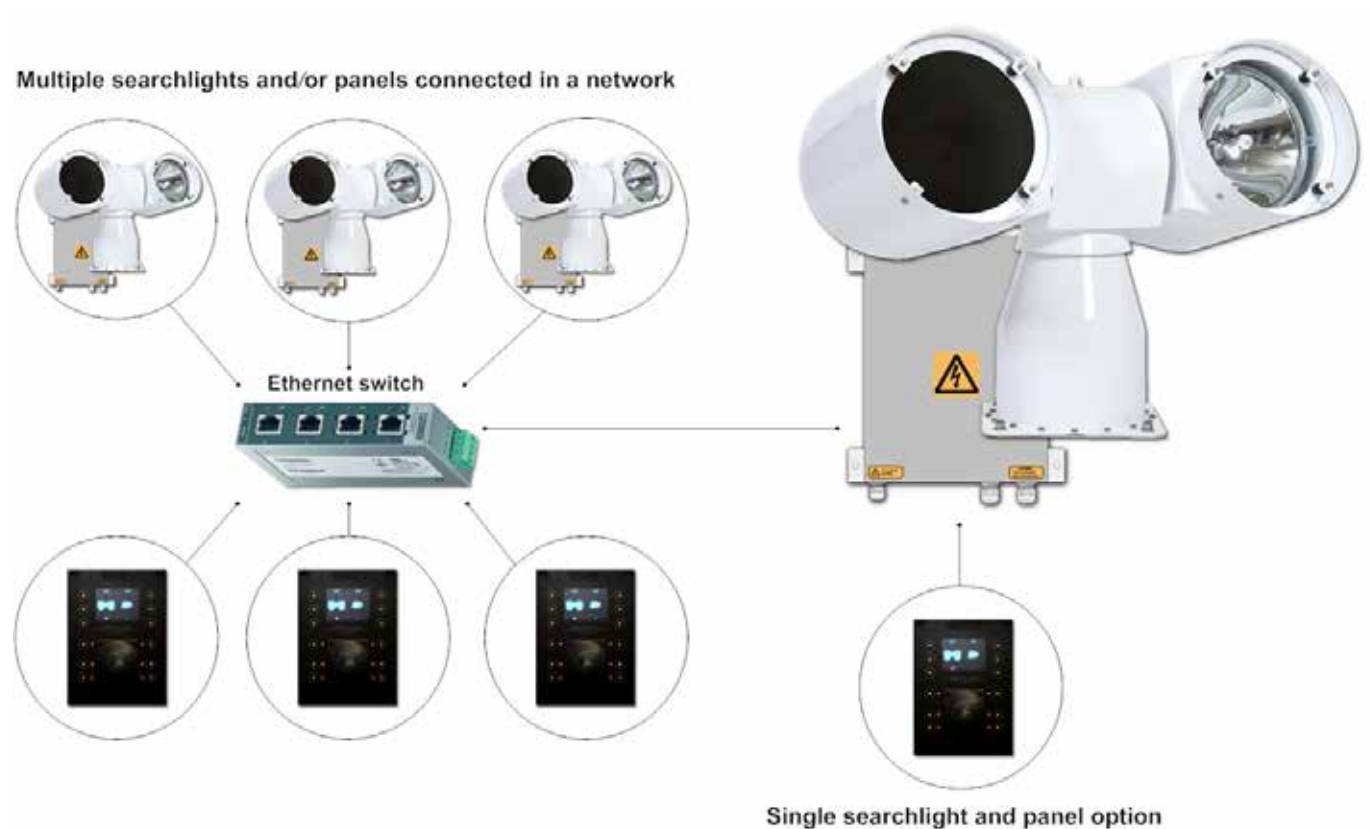
Press the button, the searchlight lights up and follows the NMEA-output of the RHOTHETA Radio Detection Finder, most likely picking up the radio signal from the MOB beacon and defines the bearing from the vessel to a man or a vessel in distress.

Focus on the SAR operation and the searchlight will automatically follow and illuminate the target.

# CL/CLITE Series system overview

## The Network solution

Contains multiple searchlights in combination with one or many operator panels. Connect all units with an Ethernet Switch and get access to any system in the network from any control panel. A good software upgrade is our Package 3 - synchronised control of multiple searchlights. One or more searchlights will follow a master searchlight increasing light power and makes the operation more efficient for you operating only one operator panel. Just ask us if you need our support in making a block schematic solution diagram for the total system you need.



## Customized control solutions

We have developed a less advanced one button control functions driven by specific customer demands.

Helideck control button – press the button, the searchlight lights up and goes to a pre-set position.

Press the button again – the searchlight lights off and goes back to a park position.

Time efficient and simplify the operation.

Another example is the solution is the RHOTHETA Radio Detection Finder control integration.

Press the button, the searchlight lights up and follows the NMEA-output of the RHOTHETA Radio Detection Finder, most likely picking up the radio signal from the MOB beacon and defines the bearing from the vessel to a man or a vessel in distress.

Focus on the SAR operation and the searchlight will automatically follow and illuminate the target.

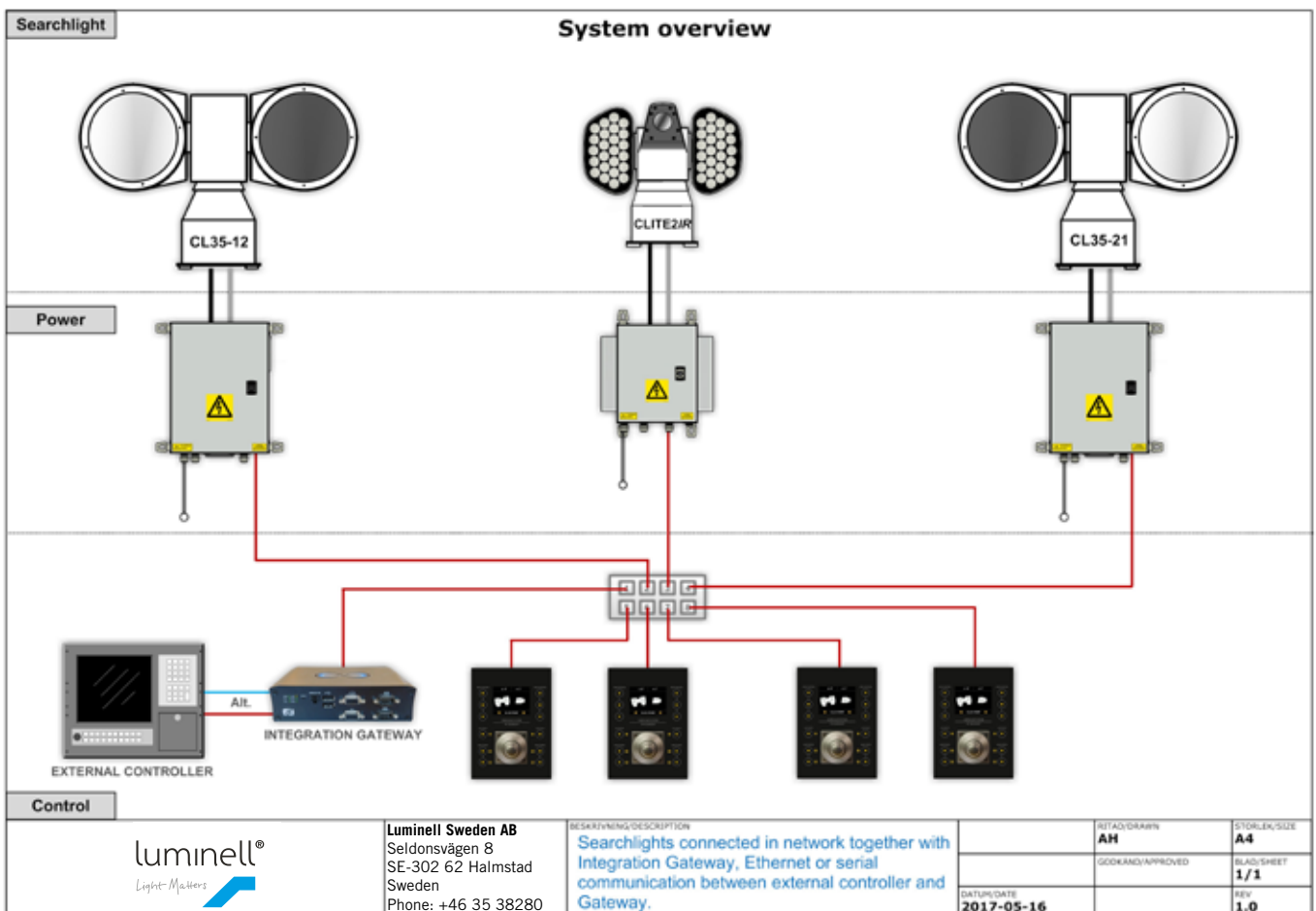
# CL/CLITE Series system overview

## Control Integration Solutions

Our systems were originally developed to be ready for basic and advanced control integration. The electronics and the control software are well prepared for one-man bridge solutions as well as defined single button control functionality.

Examples of more advanced integrations is when a full integration of functionality and control into the vessel's bridge and security systems is made. Using input from Radar, GPS, AIS and other targets to define the manoeuvring of the searchlight. Here it is more up to your need and the creativity of the system integrator to use the full potential of our systems. Many bridge system integrators have already integrated our products, ask us for references.

To simplify integration to a multiple number of searchlights or to add the CL internal LAN network to the vessel's LAN system we have developed an Integration Gateway. Primarily it is a gateway and a single access point to a network of multiple searchlights – simplifying external control integration, from a single controller or from a LAN network. Secondly it is also a programmable computer making it possible for Luminell to offer development of customised control functions as an optional feature. Bring us your ideas and your daily operational challenges, hopefully we can offer the solution you need.





# CL/CLITE Series system overview

## Thermal camera solutions integrated in our searchlights – CLIR/CLITE2/IR

The thermal night vision camera unit from FLIR® is placed in a robust, modern designed housing mounted on top of the searchlight middle part; this means that the camera always follows the searchlights horizontal movement from the joystick. The thermal camera is mounted in a special tilt unit which makes it easy to adjust the camera vertically from the operator panel.

The front is with a germanium window with an integrated temperature-controlled and self-regulating heating element. The element will prevent condensation and ice build-up on the front window that would otherwise disrupt the camera's line of sight. The infrared thermal camera provides a clear picture based on temperature differences, even in total darkness. This is possible since the camera is sensitive to thermal infrared radiation.

All objects with a temperature over the absolute zero point -273 C (0 degree K) generates infrared radiation. The hotter the temperature, the more infrared radiation. The IR sensor also senses differences of the material's emissivity, reflection and transmission. Emissivity – the material's capability to emit infrared radiation. Reflection – the material's capability to reflect infrared radiation. Transmission – the material's capability of transmitting infrared radiation. Materials with a temperature over -273 C will be detected by the thermal sensor and different materials with same temperature will appear different on the monitor due to the different properties in the materials. A weak point with an uncooled thermal sensor is that rain, fog or snow reduces the optical sight and it also effects the range of IR detection. Depending on distance, size of the object and level of temperature (IR radiation) there is no simple answer how much the detection range is affected – (but it is affected).

We work primarily with two alternative sensor resolutions; our standard version is a 336 core with a 25 mm focal lens. Optional is to upgrade to a 640 core with 25 mm lens improving the resolution with an extended detection range and field of view.

A combined solution with thermal sensor and visible light will support your improved visibility depending on the actual conditions during your operations.

### Thermal unit

Camera core type	FLIR (uncooled longwave thermal imager)	
Lens	25mm*1	
Field of view	13x10 degrees (25x20 degrees for 640 core)	
Video output	Analog Channel Composite Video (Male RCA connector) PAL (Standard), NTSC. To change the video standard, see section 3.SET CAM VIDEO STANDARD	
Camera type	FLIR Tau 2, 336 (standard)	FLIR Tau 2, 640 (optional)
Detector resolution	336x256, 17µm	640 x 512, 17µm
Video resolution	640 x 480 (NTSC);	640 x 512 (PAL)*2
Refresh rate	25 Hz (PAL), 30 Hz (NTSC)	
Detection man/vessel	800m / 2000m	
Recognition man/vessel	200m / 550m	
Identification man/vessel	100m / 300m	

\*1 Other lens types available upon request

\*2 Tau 336 & 324 analog video is upsampled & interpolated to 640 x 480 for NTSC, and to 640 x 512 for PAL

# CL25

Powerful and compact HID searchlight



*'My own experience has been very good with the searchlight. It works great in the dark. But even in rain and fog, the results are excellent. The blacklight works great, too. We use the searchlight every night. It's dark here from 22:30 until 04:00 in the morning. We have to cope with a great many icebergs, 'bergy bits' and 'growlers.' The searchlight is definitely a necessary part of the equipment that we need here in order to operate under these conditions.'*

Captain of the S/Y 'Rembrandt van Rijn.



**A Searchlight** – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Ice navigation support, Worklight, Security surveillance, Oil spill illumination (UV)
<b>TYPE:</b>	HID light source with adjustable beam width
<b>INPUT POWER:</b>	100-240 VAC, 50/60 Hz optional
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility, long range illumination

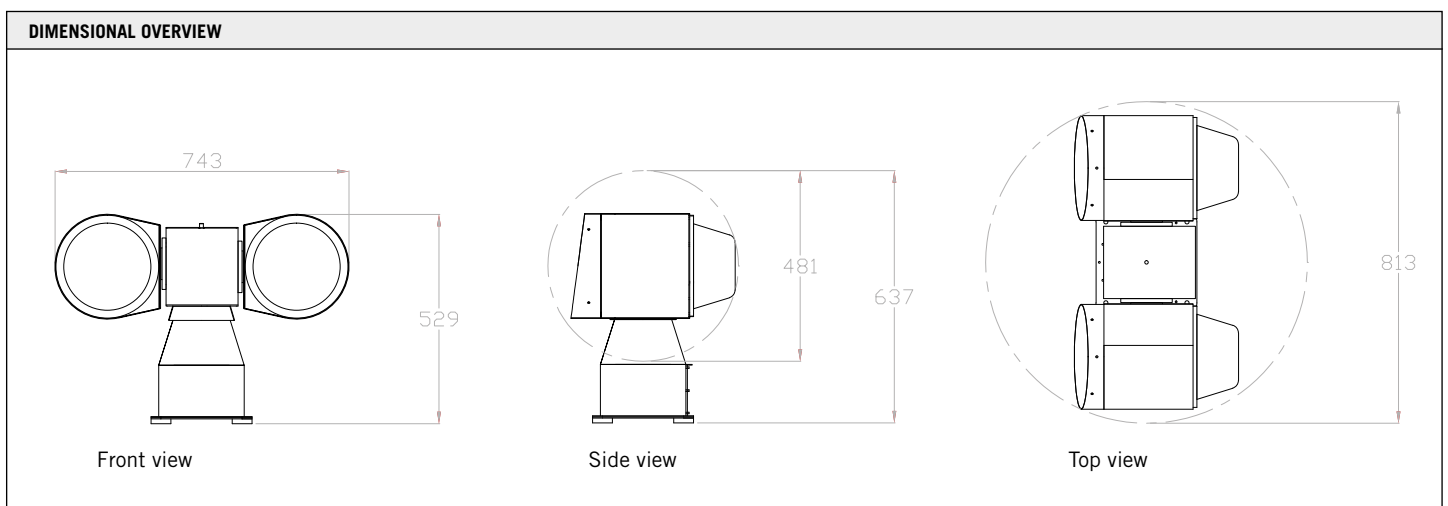
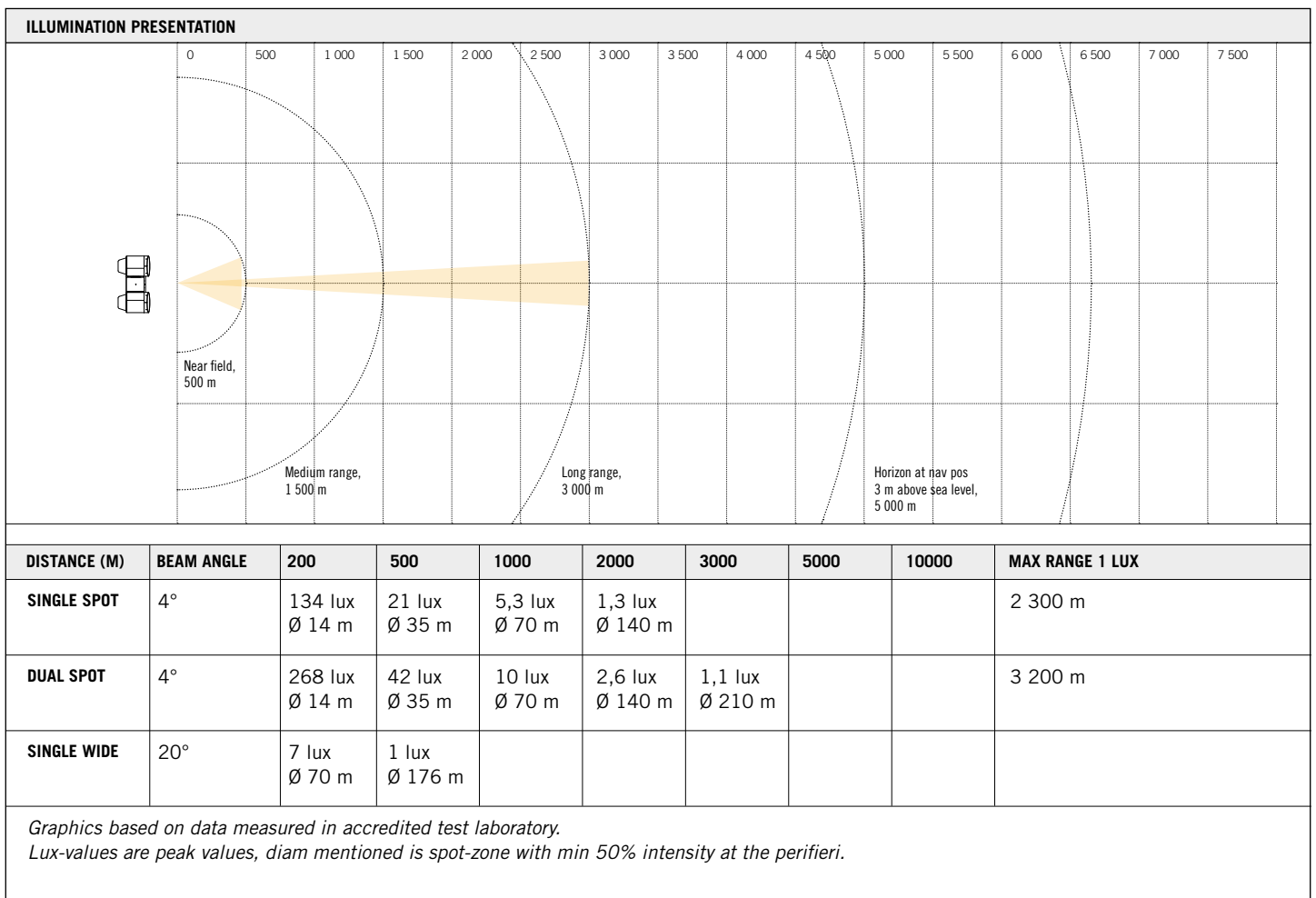
PART DESCRIPTION	PART NO	NOTE
Searchlight model CL25-11 400W/400W	CLS-25011	Also available in hanging version
Searchlight model CL25-12 400W/UV	CLS-25012	Also available in hanging version

There is a variety of other combinations on the CL25 platform, ask us for more information

OUTPUT / PERFORMANCE	
Range with 1 lux at target	3 200 m
Light beam angle	Adjustable 4-20°
Color Rendering (CRI)	90 Ra minimum
Color Temperature (CCT)	6000 K
Lumen (lm)	66 000 lm
Candela (Cd)	10,7 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
Bulb lifetime up to 1 000 hours

INPUT INFORMATION
Mains power 100-240 VAC, 50/60 Hz, 1070W, 4,7 A @ 230 VAC (max load)
CAN bus / signal cable 3x2x1 shielded, twisted pair (between searchlight and electrical cabinet)
5G1,5 shielded power cable (between searchlight and electrical cabinet)
<i>For electrical control box and operator panel data, see separate information</i>



# CL35

Powerful HID searchlight



**A Searchlight** – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Ice navigation support, Worklight, Security surveillance, Oil spill illumination (UV)
<b>TYPE:</b>	HID light source with adjustable beam width
<b>INPUT POWER:</b>	100-240 VAC, 50/60 Hz optional
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility, long range illumination

PART DESCRIPTION	PART NO	NOTE
Searchlight model CL35-11 575W/575W	CLS-35011	Also available in hanging version
Searchlight model CL35-12 575W/UV	CLS-35012	Also available in hanging version

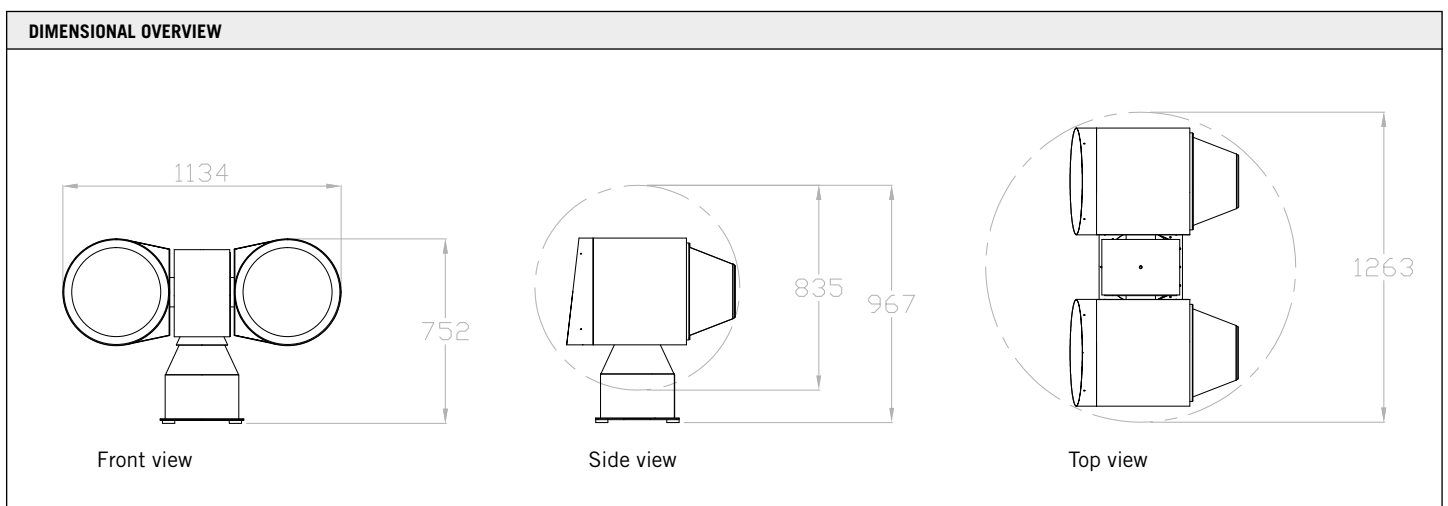
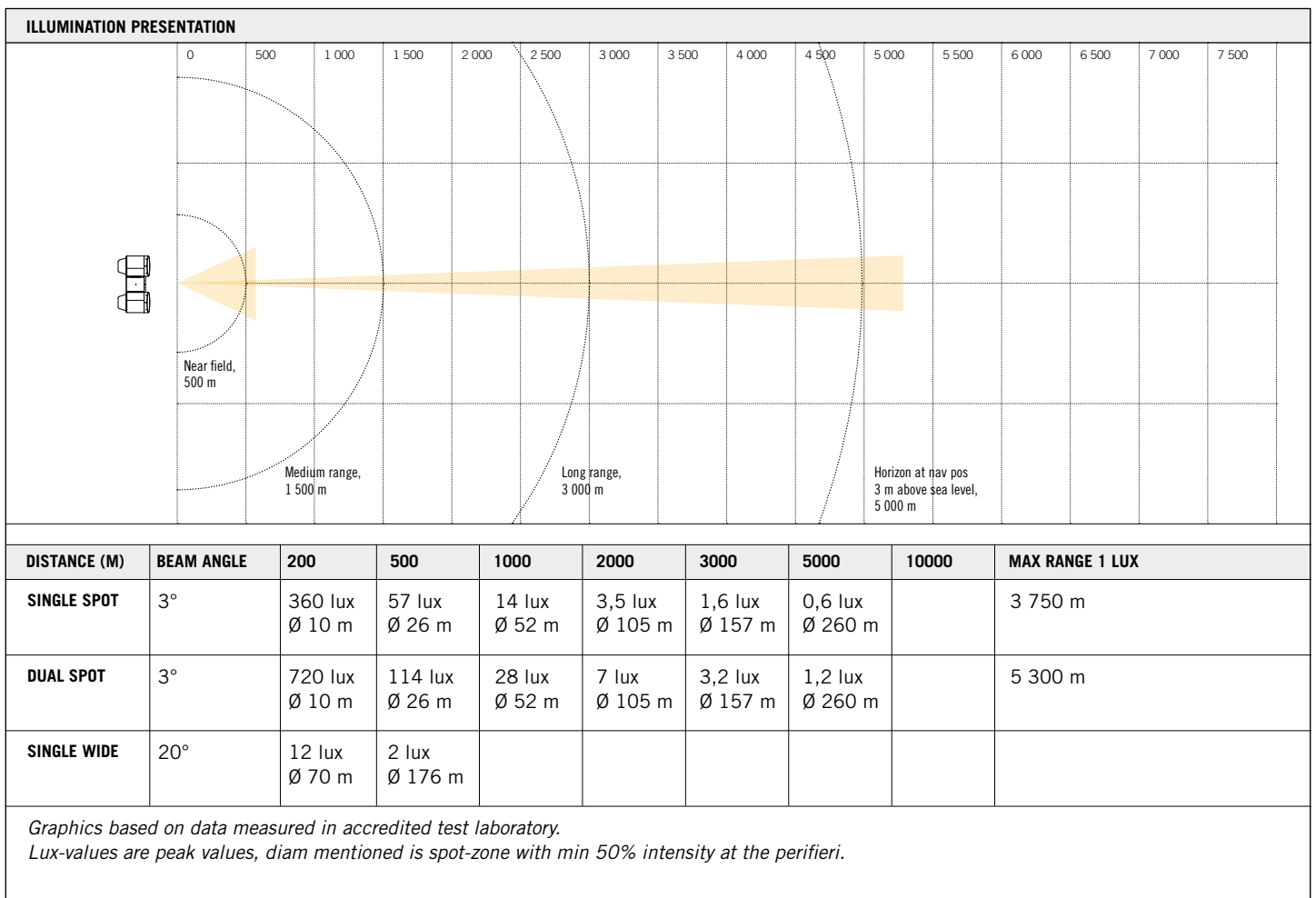
*There is a variety of other combinations on the CL35 platform, ask us for more information*



OUTPUT / PERFORMANCE	
Range with 1 lux at target	5 300 m
Light beam angle	Adjustable 3-20°
Color Rendering (CRI)	90 Ra minimum
Color Temperature (CCT)	6000 K
Lumen (lm)	98 000 lm
Candela (Cd)	28,7 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
Bulb lifetime up to 1 000 hours

INPUT INFORMATION
Mains power 100-240 VAC, 50/60 Hz
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)
5G2.5 shielded power cable (between searchlight and electrical cabinet)
<i>For electrical control box and operator panel data, see separate information</i>



# CL38

Our most powerful HID searchlight



**A Searchlight** – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Ice navigation support, Worklight, Security surveillance, Oil spill illumination (UV)
<b>TYPE:</b>	HID light source with adjustable beam width
<b>INPUT POWER:</b>	100-240 VAC, 50/60 Hz optional
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility, long range illumination

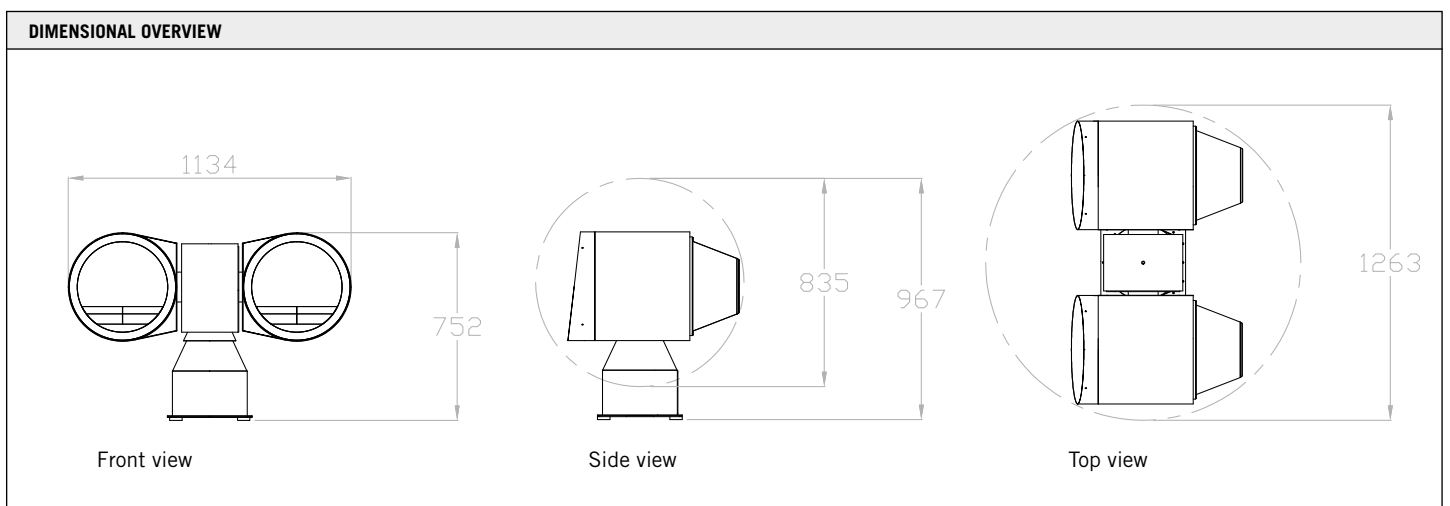
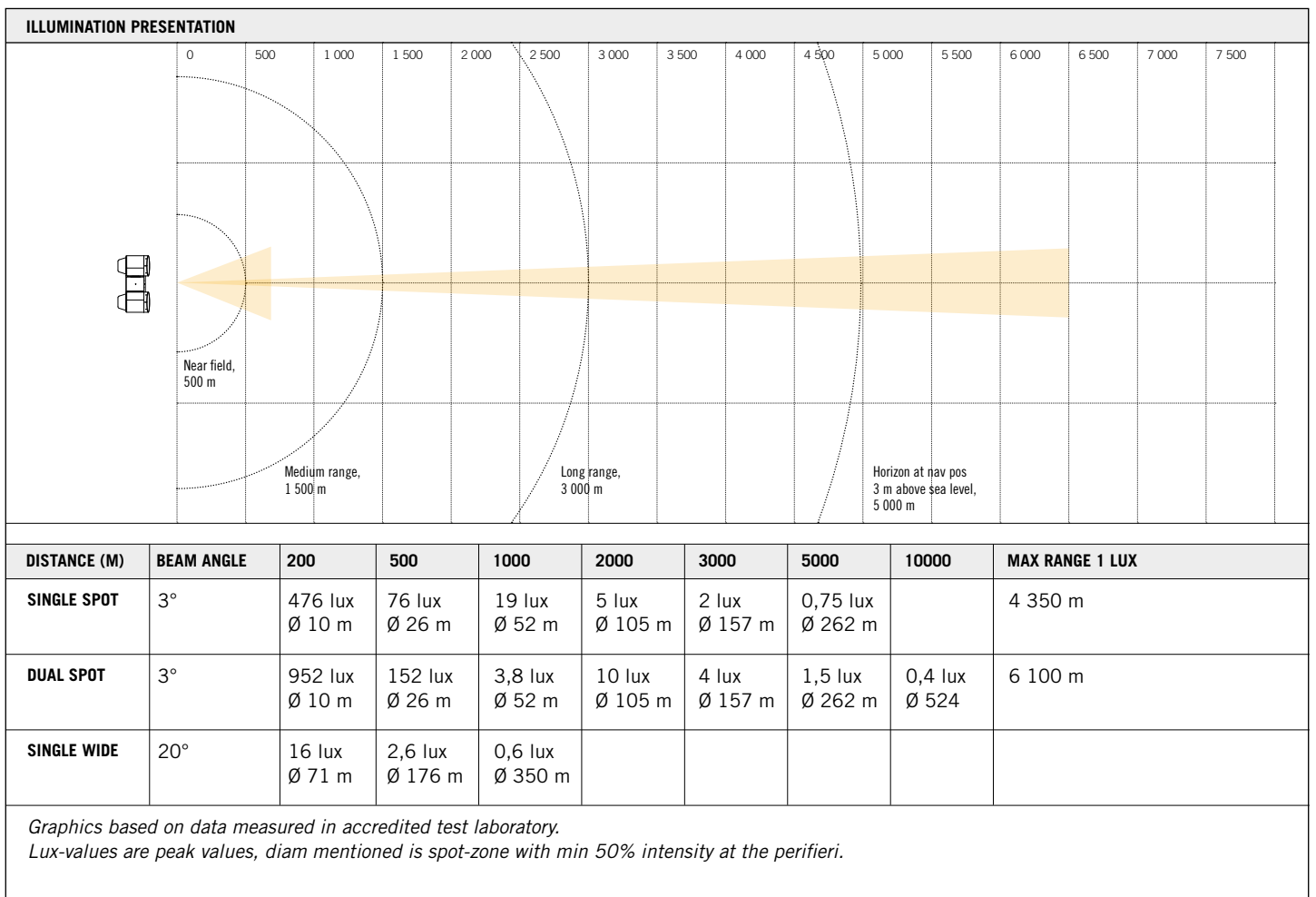
PART DESCRIPTION	PART NO	NOTE
Searchlight model CL38-11 800W/800W	CLS-38011	Also available in hanging version
Searchlight model CL38-12 800W/UV	CLS-38012	Also available in hanging version

*There is a variety of other combinations on the CL38 platform, ask us for more information*

OUTPUT / PERFORMANCE	
Range with 1 lux at target	6 100 m
Light beam angle	Adjustable 3-20°
Color Rendering (CRI)	90 Ra minimum
Color Temperature (CCT)	6000 K
Lumen (lm)	130 000 lm
Candela (Cd)	38,1 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
Bulb lifetime up to 1 000 hours

INPUT INFORMATION
Mains power 100-240 VAC, 50/60 Hz
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)
5G2.5 shielded power cable (between searchlight and electrical cabinet)
<i>For electrical control box and operator panel data, see separate information</i>





# CLIR25

Powerful and compact HID searchlight with integrated thermal camera



**A Searchlight** – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Ice navigation support, Worklight, Security surveillance, Oil spill illumination (UV)
<b>TYPE:</b>	HID light source with adjustable beam width as well as integrated thermal imaging system.
<b>INPUT POWER:</b>	100-240 VAC, 50/60 Hz
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility.

PART DESCRIPTION	PART NO	NOTE
Searchlight model CLIR25-11 HID 400W/400W with IR cam, 336 res, 25 mm lens	CLS-25026	Also available in hanging version
Camera core upgrade to 640 res, 25 mm lens	CLN0530	

*There is a variety of other combinations on the CLIR25 platform, ask us for more information*



OUTPUT / PERFORMANCE	
Range with 1 lux at target	3 200 m
Light beam angle	Adjustable beam 4-20°
Color Rendering (CRI)	90 minimum
Color Temperature (CCT)	6000 K
Lumen (lm)	66 000 lm
Candela (Cd)	10,7 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
Bulb lifetime up to 1 000 hours
For IR cam details, see separate pages in this catalogue.

INPUT INFORMATION
Mains power 100-240 VAC, 50/60
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)
5G1.5 shielded power cable (between searchlight and electrical cabinet)
<i>For electrical control box and operator panel data, see separate information</i>

ILLUMINATION PRESENTATION									
DISTANCE (M)	BEAM ANGLE	200	500	1000	2000	3000	5000	10000	MAX RANGE 1 LUX
DUAL SPOT	4°	134 lux Ø 14 m	21 lux Ø 35 m	5,3 lux Ø 70 m	1,3 lux Ø 140 m				3 200 m
IR STD 336 RES	FOW 13x10°	800 m Detection man 2 000 m Detection small vessel							
IR STD 640 RES	FOW 25x20°	900 m Detection man 2 800 m Detection small vessel							
<i>Graphics based on data measured in accredited test laboratory. Lux-values are peak values, diam mentioned is spot-zone with min 50% intensity at the periferi.</i>									

DIMENSIONAL OVERVIEW		
<p>Front view</p>	<p>Side view</p>	<p>Top view</p>

# CLIR35

Powerful HID searchlight with integrated thermal camera



**A Searchlight** – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Ice navigation support, Worklight, Security surveillance, Oil spill illumination (UV)
<b>TYPE:</b>	HID light source with adjustable beam width as well as integrated thermal imaging system.
<b>INPUT POWER:</b>	100-240 VAC, 50/60 Hz
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility.

PART DESCRIPTION	PART NO	NOTE
Searchlight model CLIR35-11 HID 575W/ 575W with IR cam, 336 res, 25 mm lens	CLS-35026	Also available in hanging version
Camera core upgrade to 640 res, 25 mm lens	CLN0530	

*There is a variety of other combinations on the CLIR35 platform, ask us for more information*

OUTPUT / PERFORMANCE	
Range with 1 lux at target	5 300 m
Light beam angle	Adjustable beam 3-20°
Color Rendering (CRI)	90 minimum
Color Temperature (CCT)	6000 K
Lumen (lm)	98000 lm
Candela (Cd)	28,7 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
Bulb lifetime up to 1 000 hours
For IR cam details, see separate pages in this catalogue.

INPUT INFORMATION
Mains power 100-240 VAC, 50/60
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)
5G1.5 shielded power cable (between searchlight and electrical cabinet)
<i>For electrical control box and operator panel data, see separate information</i>

ILLUMINATION PRESENTATION									
DISTANCE (M)	BEAM ANGLE	200	500	1000	2000	3000	5000	10000	MAX RANGE 1 LUX
DUAL SPOT	3°	720 lux Ø 10 m	114 lux Ø 26 m	28 lux Ø 52 m	7 lux Ø 105 m	3,2 lux Ø 157 m	1,2 lux Ø 260 m		5 300 m
IR STD 336 RES	FOW 13x10°	800 m Detection man 2 000 m Detection small vessel							
IR STD 640 RES	FOW 25x20°	900 m Detection man 2 800 m Detection small vessel							
<i>Graphics based on data measured in accredited test laboratory. Lux-values are peak values, diam mentioned is spot-zone with min 50% intensity at the periferi.</i>									

DIMENSIONAL OVERVIEW		
<p>Front view</p>	<p>Side view</p>	<p>Top view</p>



# CLIR38

Our most powerful HID searchlight with integrated thermal camera



**A Searchlight** – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Ice navigation support, Worklight, Security surveillance, Oil spill illumination (UV)
<b>TYPE:</b>	HID light source with adjustable beam width as well as integrated thermal imaging system.
<b>INPUT POWER:</b>	100-240 VAC, 50/60 Hz
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility.

PART DESCRIPTION	PART NO	NOTE
Searchlight model CLIR38-11 HID 800W/ 800W with IR cam, 336 res, 25 mm lens	CLS-38026	Also available in hanging version
Camera core upgrade to 640 res, 25 mm lens	CLN0530	

*There is a variety of other combinations on the CLIR38 platform, ask us for more information*



OUTPUT / PERFORMANCE	
Range with 1 lux at target	6 100 m
Light beam angle	Adjustable beam 3-20°
Color Rendering (CRI)	90 minimum
Color Temperature (CCT)	6000 K
Lumen (lm)	130 000 lm
Candela (Cd)	38,1 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
Bulb lifetime up to 1 000 hours
For IR cam details, see separate pages in this catalogue.

INPUT INFORMATION	
Mains power 100-240 VAC, 50/60	
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)	
5G2.5 shielded power cable (between searchlight and electrical cabinet)	
<i>For electrical control box and operator panel data, see separate information</i>	

ILLUMINATION PRESENTATION									
DISTANCE (M)	BEAM ANGLE	200	500	1000	2000	3000	5000	10000	MAX RANGE 1 LUX
DUAL SPOT	3,0	952 lux Ø 10 m	152 lux Ø 26 m	3,8 lux Ø 52 m	10 lux Ø 105 m	4 lux Ø 157 m	1,5 lux Ø 262 m	0,4 lux Ø 524	6 100 m
IR STD 336 RES	FOW 13x10°	800 m Detection man 2 000 m Detection small vessel							
IR STD 640 RES	FOW 25x20°	900 m Detection man 2 800 m Detection small vessel							
<i>Graphics based on data measured in accredited test laboratory. Lux-values are peak values, diam mentioned is spot-zone with min 50% intensity at the periferi.</i>									

DIMENSIONAL OVERVIEW		
<p>Front view</p>	<p>Side view</p>	<p>Top view</p>

# CLITE1

Powerful and small LED searchlight



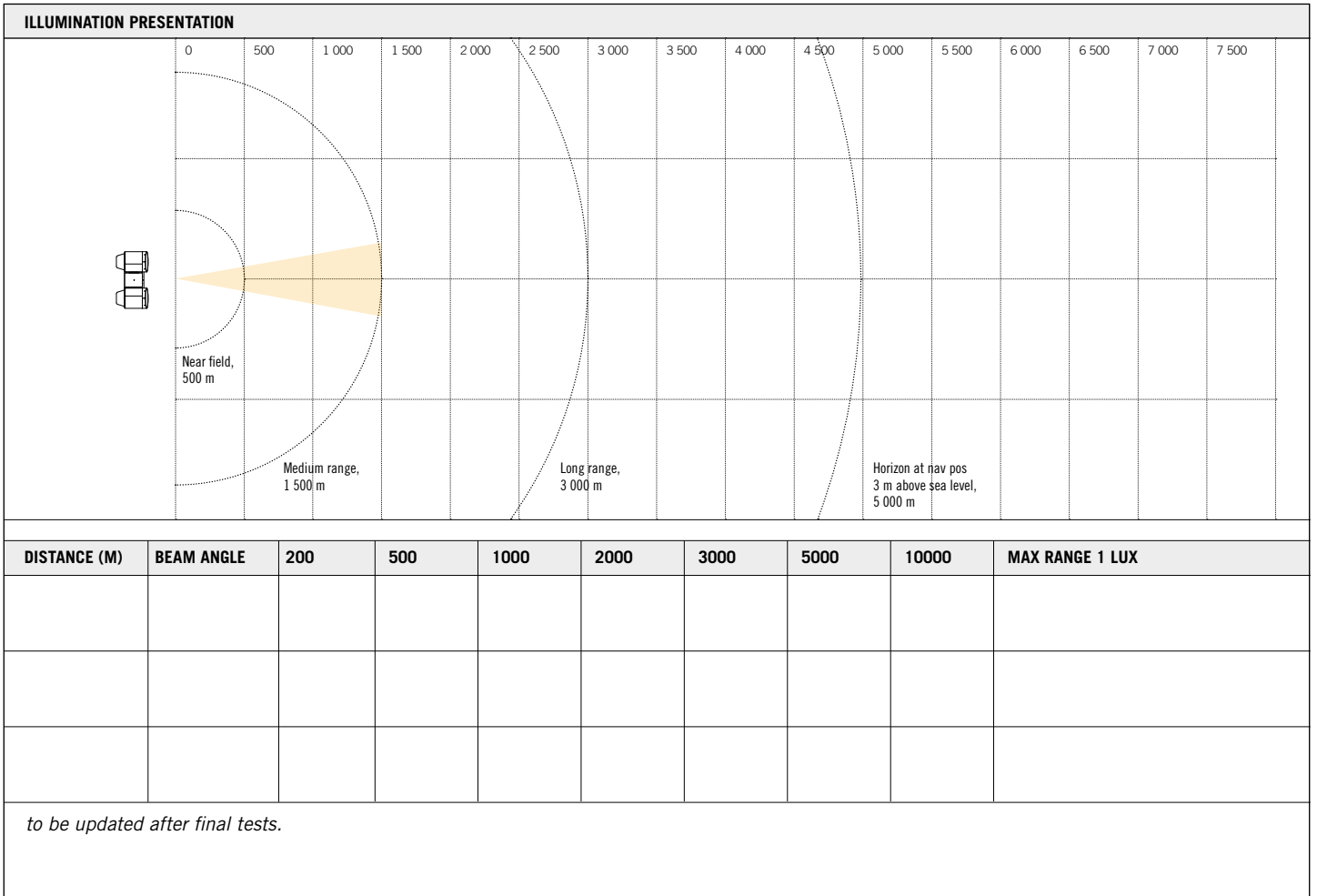
<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Worklight, Security surveillance
<b>TYPE:</b>	LED light source with dimmable and adjustable beam width.
<b>INPUT POWER:</b>	18-32 VDC
<b>PAN/TILT:</b>	Motorised with endless horizontal rotation, min +/- 30 deg vertical movement.
<b>KEY FEATURES:</b>	Small size, low weight, light power vs size, wave compensation, beam adjustment.

PART DESCRIPTION	PART NO	NOTE
Searchlight model CLITE1 LED 200W	TBA	Can be used standing or hanging.
<i>Please ask for possible options</i>		

OUTPUT / PERFORMANCE	
Range with 1 lux at target	1200-1500 m
Light beam angle	3-6 degrees
Color Rendering (CRI)	70 minimum
Color Temperature (CCT)	6 300 K
Lumen (lm)	15-20 000 lm
Candela (Cd)	1,5-2,0 MCd

KEY TECHNICAL INFORMATION
Powder coated die casted sea aluminium
Powder coat RAL 9016 as std
IP67
Weight 11-12 kg

INPUT INFORMATION
Mains power 18-32 VDC (a separate PSU for AC/DC installations)
Ethernet between searchlight and controller
Ethernet by Daisy Chain for multiple operator panels at bridge.



DIMENSIONAL OVERVIEW
Width 390 mm • Height 380 mm • Depth 350 mm

# CLITE2

Powerful and compact LED searchlight



<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Worklight, Security surveillance
<b>TYPE:</b>	LED light source with dimmable fixed beam.
<b>INPUT POWER:</b>	24 VDC (100-240 VAC, 50/60 Hz optional)
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility.

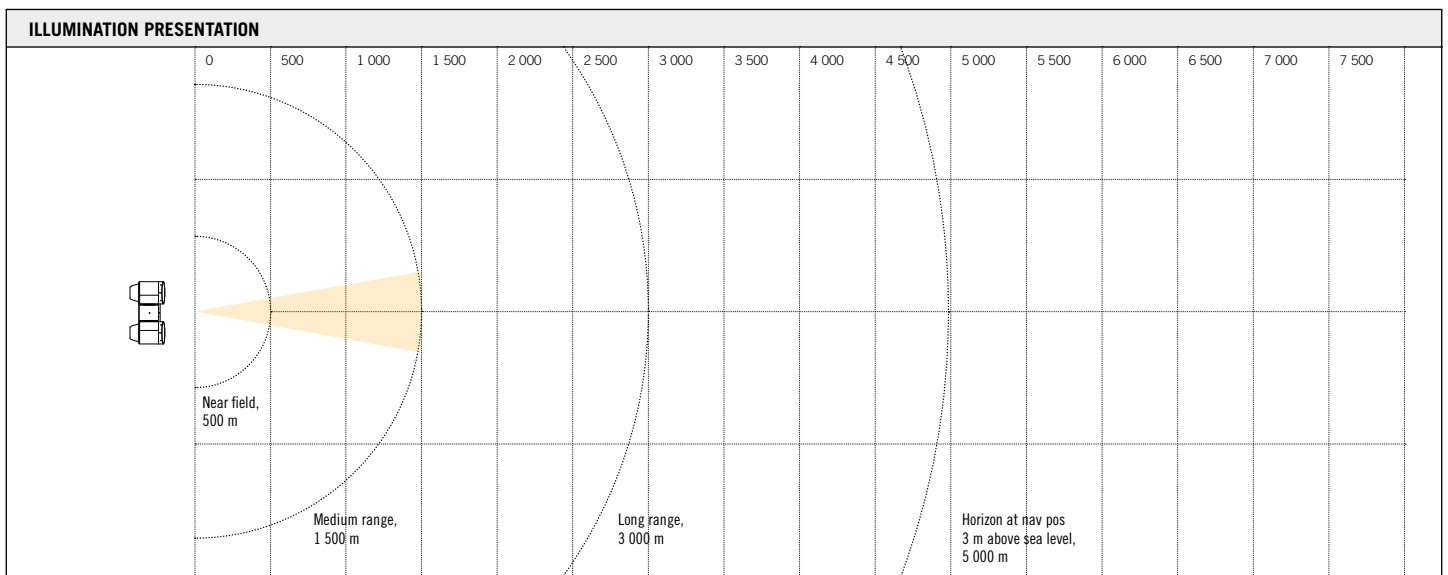
PART DESCRIPTION	PART NO	NOTE
Searchlight model CLITE2 LED 250W/250W	CLS-21011	Also available in hanging version
There is a variety of other combinations on the CLILTE2 platform, ask us for more information		



OUTPUT / PERFORMANCE	
Range with 1 lux at target	1500 m
Light beam angle	Fixed 5,7°
Color Rendering (CRI)	70 minimum
Color Temperature (CCT)	6 300 K
Lumen (lm)	40 000 lm
Candela (Cd)	2,4 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
LED lifetime up to 100 000 hours

INPUT INFORMATION
Mains power 24 VDC or 100-240 VAC, 50/60 Hz depending ebox version.
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)
5G4 shielded power cable (between searchlight and electrical cabinet)
<i>For electrical control box and operator panel data, see separate information</i>



DISTANCE (M)	BEAM ANGLE	200	500	1000	2000	3000	5000	10000	MAX RANGE 1 LUX
<b>SINGLE SPOT</b>	5,7°	30 lux Ø 20 m	5 lux Ø 50 m	1,2 lux Ø 100 m	0,3 lux Ø 200 m				1 100 m
<b>DUAL SPOT</b>	5,7°	60 lux Ø 20 m	10 lux Ø 50 m	2,4 lux Ø 100 m	0,6 lux Ø 200 m	0,25 lux Ø 300 m			1 500 m

*Graphics based on data measured in accredited test laboratory.  
Lux-values are peak values, diam mentioned is spot-zone with min 50% intensity at the periferi.*

DIMENSIONAL OVERVIEW
<p>Front view</p> <p>Side view</p> <p>Top view</p>

# CLITE2IR

Powerful and compact LED searchlight with integrated thermal camera



reddot award 2017  
winner lighting design



A Searchlight – but also much more. Improving Light at Sea

<b>APPLICATIONS:</b>	Search and Rescue, Navigation support, Worklight, Security surveillance
<b>TYPE:</b>	LED light source with dimmable fixed beam as well as integrated thermal imaging system.
<b>INPUT POWER:</b>	24 VDC (100-240 VAC, 50/60 Hz optional)
<b>PAN/TILT:</b>	Motorised with endless rotation in horizontal and vertical direction
<b>KEY FEATURES:</b>	Low EMC, unlimited movement, daylight characteristics, maintenance free operation, combination UV/IR/HMI/LED light possibility.

PART DESCRIPTION	PART NO	NOTE
Searchlight model CLITE2IR LED 250W/250W with IR cam, 336 res, 25 mm lens	CLS-21026	Also available in hanging version
Camera core upgrade to 640 res, 25 mm lens	CLN0530	

There is a variety of other combinations on the CLITE2 platform, ask us for more information

OUTPUT / PERFORMANCE	
Range with 1 lux at target	1500 m
Light beam angle	Fixed 5,7°
Color Rendering (CRI)	70 minimum
Color Temperature (CCT)	6 300 K
Lumen (lm)	40 000 lm
Candela (Cd)	2,4 MCd

KEY TECHNICAL INFORMATION
Stainless steel in critical structural parts
Powder coat white RAL 9016
IP66
Operating temp -40/+70
LED lifetime up to 100 000 hours

INPUT INFORMATION	
Mains power 24 VDC or 100-240 VAC, 50/60 Hz depending ebox version.	
CAN bus / signal cable 4x2x1 shielded, twisted pair (between searchlight and electrical cabinet)	
5G4 shielded power cable (between searchlight and electrical cabinet)	
<i>For electrical control box and operator panel data, see separate information</i>	

ILLUMINATION PRESENTATION									
DISTANCE (M)	BEAM ANGLE	200	500	1000	2000	3000	5000	10000	MAX RANGE 1 LUX
DUAL SPOT	5,7°	60 lux Ø 20 m	10 lux Ø 50 m	2,4 lux Ø 100 m	0,6 lux Ø 200 m	0,25 lux Ø 300 m			1 500 m
IR STD 336 RES	FOW 13x10°	800 m Detection man 2 000 m Detection small vessel							
IR STD 640 RES	FOW 25x20°	900 m Detection man 2 800 m Detection small vessel							
<i>Graphics based on data measured in accredited test laboratory. Lux-values are peak values, diam mentioned is spot-zone with min 50% intensity at the periferi.</i>									

DIMENSIONAL OVERVIEW		
<p>Front view</p>	<p>Side view</p>	<p>Top view</p>

# Premium Visibility Solutions

for work area illumination, SAR, Navigation and Security

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