JEL PRODUCTS
SUSTAINABLE | LIGHTING | SOLUTIONS

COLLECTED TECHNICAL DATASHEETS

316L Stainless Steel

Four luminaires in solid, electrolytically polished 316L, with twenty years of warranty on the housing. Corrosion class C5 and CX, CRC III to EN 1993-1-4 at a PREN of approximately 24.

LUMINAIRES	OUTPUT RANGE	HOUSING WARRANTY	CORROSION
4	8,400 to 111,300 lm	20 years	C5 and CX



Orca SS · Barracuda SS · Snapper SS · Piranha SS · and the Snapper HT-CHEM

Contents

Four stainless steel luminaires. The page numbers run through the whole document.

1	**Contents**	How this document is built
2	**Why 316L**	What the material does that a coating cannot, and where the limit is
3	**Selection table**	All four side by side

THE LUMINAIRES

4	**Orca SS**	111,300 lm at 800 W, 36.3 kg. The highest output stainless steel floodlight
9	**Barracuda SS**	44,100 lm at 320 W, 16.0 kg. The reference stainless steel floodlight
14	**Snapper SS**	26,000 lm at 180 W, 7.0 kg. The only Snapper with IP69K
19	**Piranha SS**	8,400 lm at 70 W, 5.0 kg. The stainless steel work lamp

RELATED DOCUMENTS

	Snapper HT and HT-CHEM	316L at +120 °C, and with an added chemically resistant seal
	Aluminium versions	Lighter and less expensive, in the Floodlights and Work Lamps collections

HOW TO READ THIS DOCUMENT

Every luminaire in this document has the same five sections: what it is and where it is used, the light output and the optics, the full specification, the mechanics and the driver, and the ordering information. The page numbers below run through the whole document.

The selection table on the next page is the fastest route. It puts the luminaires side by side on the figures that actually decide a specification: output, mass, impact class, supply and what the housing is made of. The individual datasheets follow in the same order.

Why 316L, and where the limit is

A coated aluminium luminaire and a solid stainless steel one solve the same problem in two different ways. This page is about which of the two a given position actually needs.

WHAT A COATING DOES

The aluminium range is cast with less than 0.08 % copper and finished with a conversion layer and a two layer titanium based e-coating. That is a genuinely durable system and it carries corrosion class C5, industrial and marine. What it cannot do is survive being cut through. A coating is a thickness, and a passing load, a dropped tool or a grinding spark removes it locally. In most positions that never happens or it can be repaired.

WHAT 316L DOES

Solid 316L is not a layer. Corrosion resistance is a property of the metal all the way through, so a scratch is a scratch and not the start of a failure. The material is classified CRC III to EN 1993-1-4 at a PREN of approximately 24, and the housings are electrolytically polished. Corrosion class is C5 and CX. That is why the housing carries twenty years of warranty while the electronics and the components carry the standard five.

WHEN TO SPECIFY 316L

- The position cannot be inspected or repaired
- Permanent salt spray, splash zone or offshore exposure
- Chemical process atmospheres and fertiliser handling
- Food, beverage and pharmaceutical washdown regimes
- Water and waste water treatment
- A specification that names CRC III or a PREN value

WHEN ALUMINIUM IS THE BETTER ANSWER

- Mass on the structure is the binding constraint
- The position is reachable and the coating can be inspected
- Impact resistance above IK09 is required, which needs a polycarbonate front
- Normal industrial exposure, C5 without CX

Stainless steel costs mass: the Orca goes from 22.7 to 36.3 kg and the Snapper from 3.1 to 7.0 kg. On a mast or a boom that is a structural conversation, and it is the reason both materials exist rather than only the better one.

BEYOND 316L

Where stainless steel alone is not enough, the Snapper HT-CHEM is 316L with an additional chemically resistant seal, for process environments that attack the joint rather than the metal. It is covered by the Snapper HT datasheet.

Selection table

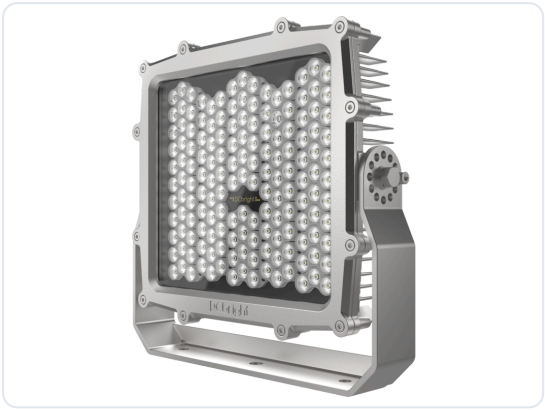
The four stainless steel luminaires side by side.

Luminaire	Flux lm	W	kg	Impact	Supply	Dimensions mm	Housing	Typical
Orca SS	111,300	800	36.3	IK10	AC · 48 V DC	515 × 440 × 95	20 years	Terminals, offshore
Barracuda SS	44,100	320	16.0	IK10	AC · 24 V DC	320 × 290 × 90	20 years	Decks, process plant
Snapper SS	26,000	180	7.0	IK08	AC · 24 V DC	320 × 180 × 100	20 years	Retrofit, light masts
Piranha SS	8,400	70	5.0	IK09	AC · 12 · 24 V DC	166 × 166 × 102	20 years	Machines, cranes

All four are solid, electrolytically polished 316L with 316L brackets and fasteners. Twenty years applies to the housing; the electronics, the components and the seals carry the standard five years. The Snapper SS is the only Snapper rated IP69K; the aluminium versions are IP66, IP67 and IP68.

INDUSTRIAL LED FLOODLIGHT

Orca SS



Shown: Orca SS, electrolytically polished 316L, 14° lens.

CE | IP69K | IK10 | Class II | 316L stainless steel | C5 and CX ISO 9223 | Ta −45 … +50 °C | 180–528 VAC | 48 VDC | DALI-2 · 0–10 V · PWM · NFC | Vibration 6 G | 20-year housing warranty

The Orca in solid 316L stainless steel: 111,300 lumens at 800 W, identical light and identical optics to the aluminium version, for offshore, chemical and permanently salt loaded positions where a coating is a wear part and the housing must not be.

LUMINOUS FLUX	POWER	HOUSING
111,300 lm	800 W	316L
CORROSION	**INGRESS**	**HOUSING WARRANTY**
C5 and CX	IP69K	20 yr

Values apply to the standard version at 6500 K, Ta 25 °C, including lens losses and driver consumption. 6500 K delivers the same luminous flux as 4000 K.

WHY IT IS SPECIFIED

Twenty years of warranty on the housing. Solid 316L, electrolytically polished. Corrosion resistance is a material property here, not a coating thickness that can be scratched through.

Identical light to the aluminium Orca. Same optics, same photometry, same IES files, so a site can mix materials across positions without a second lighting calculation.

CRC III at a PREN of about 24. Classified to EN 1993-1-4 for structural stainless steel, which is the language an offshore or chemical specification is actually written in.

WHERE IT IS USED

- Offshore platforms and jack up rigs
- Chemical and fertiliser plant
- Splash zones and permanent salt spray
- Water and waste water treatment
- Food and beverage process areas
- Fish farms and aquaculture
- Desalination and brine handling
- Heavy lift vessels and dredgers
- Coastal terminals and quays
- Flue gas and scrubber areas
- Cleanrooms and washdown zones
- Any position where a coating cannot be repaired

VERSIONS

	Orca SS AC	Orca SS DC
Article base code	ORSS01	ORSS02
Luminous flux	111,300 lm	100,200 lm
Power	800 W	800 W
Supply	180–528 VAC	35–60 VDC, 24 V on request
Driver	Remote TLD800	On board
Weight incl. bracket	36.3 kg	36.3 kg
Warranty	20 years housing, 5 years electrical	20 years housing, 5 years electrical

Light output and optics

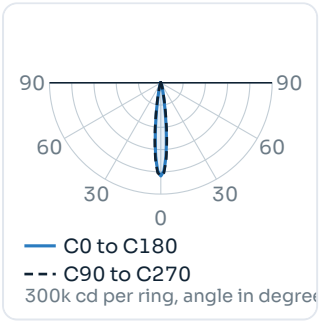
Values apply to the standard configuration at Ta 25 °C and include lens losses and driver consumption. Photometry is measured in house to IES LM-79 and the files are downloadable per optic from the product page.

BEAM CHARACTERISTICS

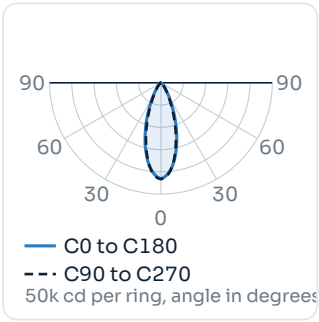
Lens	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
14°	Spot, symmetric	13°	27°	Very long throw, beyond 150 m: high masts, crane booms, stockpiles
38°	Medium, symmetric	37°	69°	Long throw, beyond 40 m: quays, decks, terminals
69°	Wide, symmetric	72°	103°	Up to around 45 m: decks, process areas, work areas
14° × 46°	Flare, asymmetric	13° × 45°	30° × 70°	Throws far forward and stays wide across: quay edges, jetties

The beam angle is the full angle between the two directions where the intensity has fallen to 50 % of the peak. The field angle uses 10 %. Both are read from the IES files, available per optic on the product page. Lens combinations within one luminaire are possible, and the optic is part of the order code as a suffix, for example .38.

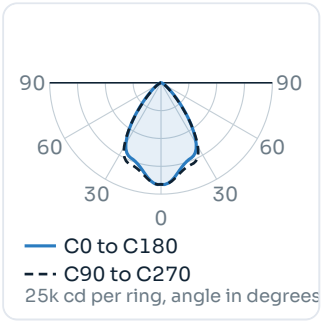
LIGHT DISTRIBUTION



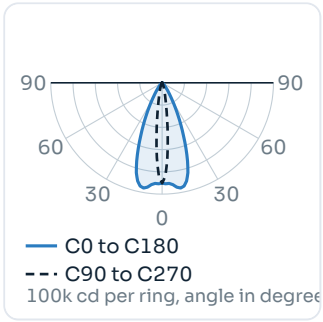
14° spot



38° medium



69° wide



14° × 46° flare

OBTRUSIVE LIGHT

ULOR at 0° tilt	**0 %**
Amber 2200 K	Available on every optic, for light sensitive surroundings
Bi-colour 4000 K with amber 2200 K	Switchable in operation, for fog, dust and night regimes

Nothing is emitted above the horizontal at 0° tilt. That is the figure a permitting authority asks for when a site borders a residential area or a protected zone, and it is the starting point for any assessment against NEN-EN 12464-2 and the NSVV guidance on obtrusive light. Where the site condition demands a cut off optic rather than a controlled floodlight, see the DarkLicht range.

COLOUR AND CONSISTENCY

Colour temperatures	6500 K, 5000 K, 4000 K, 2700 K, amber 2200 K
Flux at 6500 K	Identical to 4000 K
Bi-colour	4000 K with amber 2200 K, switchable in operation
Colour rendering	Ra > 70 standard, optionally 80 or 90
Colour consistency	MacAdam step 3 or better
LED service life	TM-21 L90B05 > 360,000 h at 50 °C

Full specification

All values apply to the standard configuration at 25 °C ambient, including lens losses and driver consumption. A hyphen means the entry does not apply to that version.

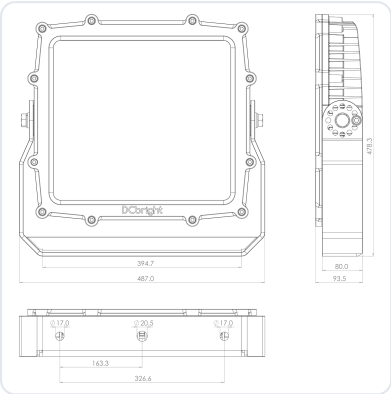
	Orca SS AC	Orca SS DC
PERFORMANCE		
Luminous flux	111,300 lm	100,200 lm
Power consumption	800 W	800 W
Efficacy	139 lm/W	125 lm/W
LED count	156 lenses in one housing	
ELECTRICAL AND DRIVER		
Supply voltage range	180–528 VAC or 250–740 VDC via TLD800, 50/60 Hz	35–60 VDC, 48 V nominal. 24 V on request
Current draw	3.5 A at 277 V · 2.0 A at 480 V · 3.6 A at 220 V	16.7 A at 48 V · 13.4 A at 60 V
Power factor at full load	> 0.9 at 60 to 100 % load	-
THD at full load	< 15 % at 60 to 100 % load	-
Inrush current at 220 V	5.4 A peak, T50 8 ms	-
Luminaires per MCB	B16 2 · C16 2 · C25 4 · D16 3	-
Surge protection	6 kV line to line, 10 kV line to earth (IEC 61000-4-5)	-
Dimming	0–10 V, PWM, DALI-2, or over NFC	On request
Driver	Remote TLD800, 237 × 125 × 49 mm, 2,600 g. Bare, or in the DRB-2	DC drivers on board
Driver life	≥ 100,000 h at Tc 75 °C, MTBF ≥ 320,000 h. Replaced without opening the luminaire	-
CONSTRUCTION		
Housing	Solid 316L stainless steel	
Surface finish	Electrolytically polished	
Bracket	High tensile 316L stainless steel, fully rotatable through 360° in 30° steps	
Front	Polycarbonate IK10 as standard, chemically hardened glass IK09 on request	
Protection class	Class II	
Ingress protection	IP66, IP67, IP68 and IP69K, each class tested separately	
Impact resistance	IK10 with polycarbonate, IK09 with glass (IEC 62262)	
Corrosion class	C5 and CX (ISO 9223). 316L is CRC III to EN 1993-1-4 at a PREN of approximately 24	
Vibration and shock	6 G at resonant frequency (IEC 60068-2-6), shock tested to IEC 60068-2-27	
DURABILITY AND DIMENSIONS		
Ambient temperature	−45 to +50 °C	−45 to +50 °C
LED service life	TM-21 L90B05 > 360,000 h at 50 °C	
Cable and termination	H07BQ-F, 4 cores (2 × 2.5 mm² + 2 × 0.5 mm²), 2.0 m	H07BQ-F, 2 cores (2 × 2.5 mm²), 2.0 m
Dimensions	Luminaire with bracket 515 × 440 × 95 mm · housing without bracket 487.0 × 478.3 × 93.5 mm, mounting foot 394.7 mm with two Ø17.0 holes and one Ø20.5	
Weight	36.3 kg incl. bracket	36.3 kg incl. bracket
Warranty	20 years on the housing. 5 years on the electronics, the components and the seals	

Power is a driver setting. Every AC version can be ordered programmed to a lower wattage by adding the wanted power as a suffix to the article code. DC versions run at a fixed constant current, so another power level there is a custom build. High voltage DC between 250 and 740 V is available on request.

Mechanics, mounting and driver

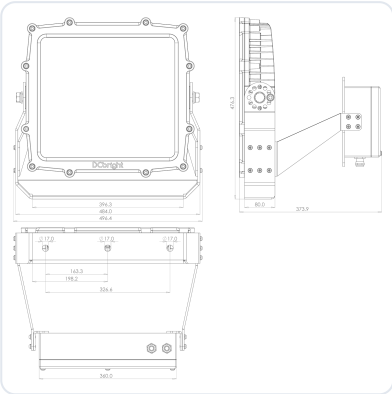
All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request.

STANDARD BRACKET



Housing	484.0 × 441.2 × 93.5 mm
Incl. bracket	515 × 440 × 95 mm
Mounting foot	399.2 mm wide, 80.0 mm deep
Fixing holes	3 × Ø 16.5 mm
Hole centres	326.6 mm, 163.3 mm pitch
Adjustment	360° in 30° steps, twelve positions

SS REAR MOUNT BRACKET



Availability	AC version, flat against a structure
Material	316L stainless steel
Mounting plate	300 × 180 mm
Fixing holes	Ø 15.7 mm, pitch 100.0 and 120.0 mm
Cable entry	Ø 24.5 mm

MOUNTING AND ACCESSORIES

Standard bracket	High tensile 316L, supplied as standard
SS rear mount bracket	Option on the AC version
Crane Light Stabilizer	Holds the aim while the boom moves. Separate datasheet
Safety cable	Optional, supplied with the luminaire
Cable and retrofit brackets	Lengths beyond 2.0 m and structure specific brackets on request

REMOTE DRIVER

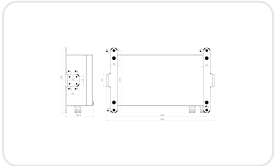
Type	TLD800, 180–528 VAC or 250–740 VDC
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C
MTBF	≥ 320,000 h at 75 °C case
Size and weight	237 × 125 × 49 mm, 2,600 g
Enclosure	Bare as standard, or in the DRB-2

The LEDs outlive three drivers. The driver sits outside the luminaire and is replaced without opening the housing, so a driver fault is a ground level job instead of a lift and a dismantled luminaire.

DRB DRIVER BOXES



Aluminium DRB



316L Power Box BLD600

Use	Optional housing for the remote driver, mounted outside the wash-down zone
DRB-1	One driver up to 320 W. 276 × 194 × 86.5 mm, 4.2 kg, IP66 and IP67
DRB-2	Systems up to 2,000 W. 441 × 290 × 145 mm, 10.4 kg, IP66 and IP67
316L Power Box	Power Box BLD600, solid 316L, 390 × 225 × 100 mm. For the same driver as the DRB, chosen where the box sits in the same wash-down or salt zone as the luminaire
Ingress protection	IP66 and IP67
System weight	46.7 kg, luminaire with bracket and DRB-2

Ordering, standards and documents

ORDER CODE

Example **ORSS01-65K.38**

Orca SS, AC, 6500 K, 38° optic

ORSS01	316L, AC, 180–528 VAC, remote TLD800
ORSS02	316L, DC, 35–60 VDC, drivers on board
65K · 50K · 40K · 27K · 22K	6500 K · 5000 K · 4000 K · 2700 K · amber 2200 K
BIC	Bi-colour 4000 K with amber 2200 K
.14 · .38 · .69 · .14x46	Optic suffix, selected from the light calculation

The optic suffix follows the colour temperature and a lower wattage is ordered as an extra suffix. Bracket, control protocol and cable length are confirmed at order.

COMBINATIONS

Optics within one luminaire	Possible
Amber 2200 K with flare optic	Possible
Bi-colour with DALI-2	Possible
SS rear mount bracket	AC version only
24 V DC	On request
High temperature in 316L	See the Orca HT

STANDARDS AND VERIFICATION

Subject	Standard	Verification
Luminaire safety	IEC/EN 60598-1, -2-5	In-house test
EMC emission and immunity	EN 55015, EN 61547	Third party test
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68, IP69K	In-house test
Impact and vibration	IEC 62262 IK10 with polycarbonate · IEC 60068-2-6 at 6 G	In-house test
Shock and corrosion	IEC 60068-2-27 · ISO 9223 class C5, industrial and marine	In-house test
Photometry	IES LM-79, IES files per optic	In-house test
Substances	RoHS, REACH	Self-declaration

BEFORE YOU ORDER

A sample luminaire to hang before you commit to a project quantity.

Twenty years warranty on the housing, five years on the electronics.

A DIALux calculation from our engineers, on your site drawing.

PRODUCT PAGE

IES files and revision history, DXF and STEP on request, and project references.
jelproducts.nl/en/products/orca

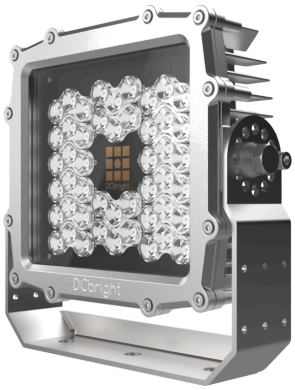
WHERE IT EARNS ITS PLACE

Sea water, chlorides and process chemistry do not attack a luminaire, they attack its coating. Where that coating cannot be inspected or repaired, the Orca SS removes the question entirely: the housing is solid 316L, electrolytically polished, with twenty years of warranty on the housing at the cost of thirteen kilograms over the aluminium version.

Notes. Values are for the standard configuration; a bi-colour or high-CRI build changes the luminous flux and the quotation states the figure that applies. Luminaires per MCB is the manufacturer figure for ABB S200 at 220 V, a guide for engineering and not a substitute for the installation calculation. North American models on request. The JEL range is not ATEX or Ex certified.

INDUSTRIAL LED FLOODLIGHT

Barracuda SS



Shown: Barracuda SS, 316L stainless steel, 14° lens, high tensile 316L bracket.

CE · IP69K · IK10 · Class II · 316L stainless steel · C5 and CX ISO 9223 · Ta −45 … +50 °C · 90–305 / 180–528 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · 20-year housing warranty

The Barracuda in solid 316L stainless steel: 44,100 lumens at 320 W, identical light and identical optics to the cast aluminium version, in a housing that keeps working where corrosion is the deciding factor. For fishing and lift vessels, offshore platforms, chemical plants and quays under permanent salt exposure.

LUMINOUS FLUX	POWER	EFFICACY
44,100 lm	320 W	138 lm/W
INGRESS	**IMPACT**	**BEAM ANGLES**
IP69K	IK10	14 to 69°

Values apply at 6500 K, Ta 25 °C, including lens losses and driver consumption. 4000 K delivers the same luminous flux as 6500 K. Photometry is identical to the cast aluminium Barracuda.

WHY IT IS SPECIFIED

Twenty years of warranty on the housing. Solid 316L, electrolytically polished. Corrosion resistance does not depend on a finish staying intact, so a scratch from a container corner is cosmetic.

Same light, same optics. Identical LED engine and the same four optics as the aluminium Barracuda, so a mixed site keeps one light calculation.

Serviceable driver. The remote driver is the wear part and is replaced without opening the luminaire.

WHERE IT IS USED

- Fishing vessels and lift vessels
- Offshore platforms and jack-ups
- Quays with permanent salt exposure
- Chemical plants and tank farms
- Fertiliser and salt handling
- Waste water and sludge treatment
- Fish processing and cold stores
- Dredging and marine construction
- Shipyards and dry docks
- Container terminals in coastal wind

COMPARED WITH THE CAST ALUMINIUM BARRACUDA

	Barracuda SS	Barracuda
Article base code	BASS01	BAAC01
Housing	316L stainless steel	Cast aluminium, e-coated
Luminous flux	44,100 lm	44,100 lm
Power and efficacy	320 W · 138 lm/W	320 W · 138 lm/W
Weight incl. bracket	16.0 kg	10.1 kg
Corrosion class	C5 and CX (ISO 9223)	C5 (ISO 9223)
Warranty	20 years housing, 5 years electrical	5 years

Light output and optics

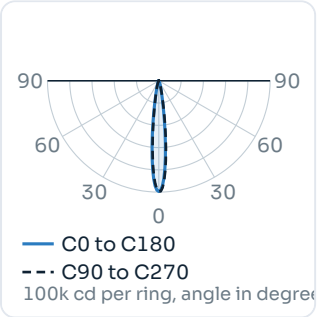
Photometry is identical to the cast aluminium Barracuda and is measured in house to IES LM-79. The IES files are downloadable per optic from the product page.

BEAM CHARACTERISTICS

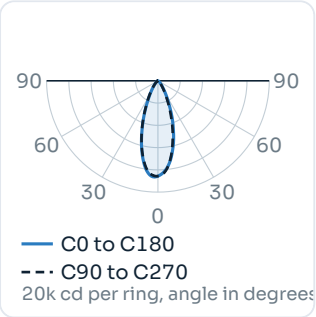
Lens	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
14°	Spot, symmetric	13°	27°	Very long throw, beyond 100 m: high masts, crane booms, stockpiles
38°	Medium, symmetric	37°	70°	Long throw, typically beyond 30 to 35 m: yards, quays, terminals
69°	Wide, symmetric	69°	100°	Up to around 35 m: decks, aprons, platforms, work areas
14° × 46°	Flare, asymmetric	13° × 46°	31° × 70°	Throws far forward and stays wide across: quay edges, roadways

The beam angle is the full angle between the two directions where the intensity has fallen to 50 % of the peak. The field angle uses 10 %. Both are read from the IES files, available per optic on the product page. Lens combinations within one luminaire are possible, and the optic is part of the order code as a suffix, for example .38.

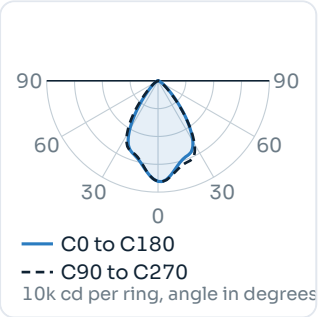
LIGHT DISTRIBUTION



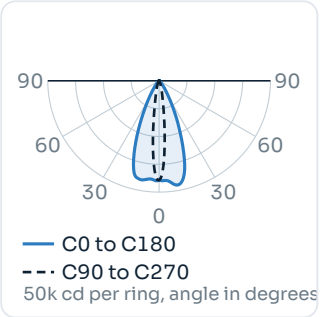
14° spot



38° medium



69° wide



14° × 46° flare

OBTRUSIVE LIGHT

ULOR at 0° tilt	**0 %**
Amber 2200 K	Available on every optic, for light sensitive surroundings
Bi-colour 4000 K with amber 2200 K	Switchable, for sites with a night regime

Nothing is emitted above the horizontal at 0° tilt. That is the figure a permitting authority asks for when a terminal borders a residential area or a protected zone, and it is the starting point for any assessment against NEN-EN 12464-2 and the NSVV guidance on obtrusive light.

COLOUR AND CONSISTENCY

Colour temperatures	6500 K, 5000 K, 4000 K, 2700 K, amber 2200 K
Flux at 6500 K	Identical to 4000 K
Bi-colour	4000 K with amber 2200 K
Colour rendering	Ra > 70 standard, optionally 80 or 90
Colour consistency	MacAdam step 3 or better
LED service life	TM-21 L90B05 > 360,000 h at 50 °C
IES files	Download per optic, product page

Full specification

All values apply to the standard configuration at 25 °C ambient, including lens losses and driver consumption.

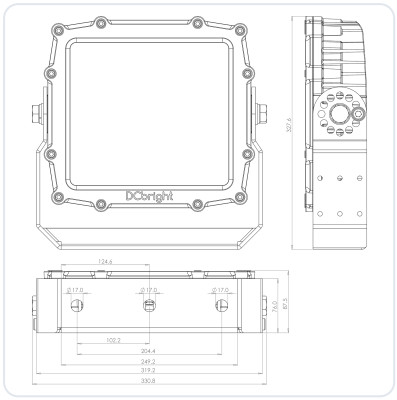
	Barracuda SS, AC	Barracuda SS, DC 24 V
PERFORMANCE		
Luminous flux	44,100 lm	40,800 lm
Power consumption	320 W	320 W
Efficacy	138 lm/W	128 lm/W
ELECTRICAL AND DRIVER		
Supply voltage range	90–305 VAC via BLD320, or 180–528 VAC via TLD320, 50/60 Hz	20–35 VDC, 24 V nominal
Current draw	BLD320: 2.9 A at 120 V · 1.5 A at 220 V. TLD320: 1.3 A at 277 V · 0.75 A at 480 V	13.4 A at 24 V
Power factor at full load	> 0.95 with BLD320, 0.96 measured at 230 V · > 0.9 with TLD320	-
THD at full load	< 15 % at 60 to 100 % load	-
Inrush current at 220 V	BLD320: 31.2 A peak, T50 1.3 ms · TLD320: 64 A peak, T50 400 µs	-
Luminaires per MCB	BLD320: B16 2 · C16 4 · C25 7 · D16 8. TLD320: B16 4 · C16 7 · C25 11 · D16 8	-
Surge protection	6 kV line to line, 10 kV line to earth (IEC 61000-4-5)	-
Leakage current	0.7 mA max (IEC 60598-1)	-
Dimming	0–10 V, PWM, DALI-2, or over NFC	Custom
Driver	Remote BLD320 or TLD320, 225 × 68 × 38.5 mm, 1,120 or 1,150 g	DC drivers on board
Driver life	≥ 100,000 h at Tc 75 °C, MTBF ≥ 280,000 h, Tc −40 to +90 °C. Replaced without opening the luminaire	-
CONSTRUCTION		
Housing	316L stainless steel	
Surface finish	Electrolytically polished	
Colour	Stainless steel	
Bracket	High tensile 316L stainless steel, fully rotatable through 360° in 30° steps	
Front	Polycarbonate IK10 as standard, impact-resistant glass IK09 on request	
Protection class	Class II	
Ingress protection	IP66, IP67, IP68 to 5 m and IP69K, each class tested separately, so IP69K does not imply IP68	
Impact resistance	IK10 with polycarbonate, IK09 with glass (IEC 62262)	
Corrosion class	C5 and CX (ISO 9223). 316L is CRC III per EN 1993-1-4, PREN approximately 24	
Vibration and shock	6 G at resonant frequency (IEC 60068-2-6), shock tested to IEC 60068-2-27	
DURABILITY AND DIMENSIONS		
Ambient temperature	−45 to +50 °C	−45 to +50 °C
LED service life	TM-21 L90B05 > 360,000 h at 50 °C, so the driver is the wear part	
Cable and termination	H07BQ-F, 4 cores (2 × 2.5 mm² + 2 × 0.5 mm²), 2.0 m, pre-fitted with free wire ends	H07BQ-F, 2 cores (2 × 2.5 mm²), 2.0 m
Dimensions	Luminaire 320 × 290 × 90 mm · with standard bracket 331 × 328 · with rear mount 412 × 295 × 328 (w × d × h)	
Weight	14.3 kg luminaire · 1.7 kg bracket · 16.0 kg incl. bracket · 17.2 kg with loose driver	
Wind load area, frontal	0.108 m² standard bracket · 0.135 m² rear mount · 0.026 m² side view. Cd 1.2 gives Cd·A 0.130 and 0.162 m²	
Warranty	20 years on the housing. 5 years on the electrical components and the seals	
CONSTRUCTION		
Housing	Solid 316L stainless steel	
Surface finish	Electrolytically polished	
Bracket	High tensile 316L stainless steel, fully rotatable through 360° in 30° steps	
Front	Impact resistant glass, IK08	
Protection class	Class II	
Ingress protection	IP66, IP67, IP68 and IP69K, each class tested separately	
Impact resistance	IK08 (IEC 62262)	
Corrosion class	C5 and CX (ISO 9223). 316L is CRC III to EN 1993-1-4 at a PREN of approximately 24	
Vibration and shock	6 G at resonant frequency (IEC 60068-2-6), shock tested to IEC 60068-2-27	
DURABILITY AND DIMENSIONS		
Ambient temperature	−45 to +50 °C	−45 to +50 °C
LED service life	TM-21 L90B05 > 360,000 h at 50 °C	
Cable and termination	H07BQ-F, 4 cores (2 × 2.5 mm² + 2 × 0.5 mm²), 2.0 m	H07BQ-F, 2 cores (2 × 2.5 mm²), 2.0 m
Dimensions	307.6 × 180.0 × 123.8 mm including bracket	
Weight	7.0 kg incl. bracket	7.0 kg incl. bracket
Warranty	20 years on the housing. 5 years on the electronics, the components and the seals	

Power is a driver setting. Every AC version can be ordered programmed to a lower wattage by adding the wanted power as a suffix to the article code. DC versions run at a fixed constant current, so another power level there is a custom build. High voltage DC between 250 and 740 V is available on request.

Mechanics, mounting and driver

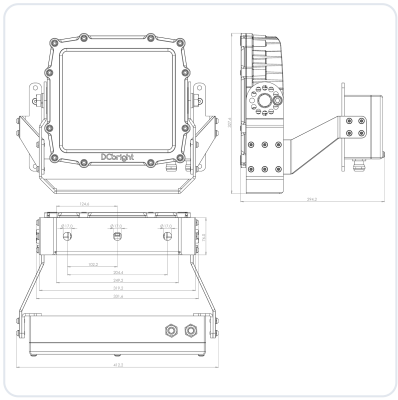
All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request.

STANDARD BRACKET



Luminaire	320 × 290 × 90 mm
Incl. bracket	331 × 328 mm
Mounting foot	319.20 × 87.50 mm
Fixing holes	3 × Ø 17.00 mm
Hole centres	249.20 mm between outer holes
Adjustment	360° in 30° steps

REAR MOUNT BRACKET



Availability	Flat against a structure
Incl. bracket	412 × 295 × 328 mm (w × d × h)
Mounting foot	319.20 mm
Fixing holes	3 × Ø 17.00 mm
Hole centres	249.20 mm between outer holes

MOUNTING AND ACCESSORIES

Standard bracket	High tensile 316L, supplied as standard
SS rear mount bracket	Option
Retrofit bracket	On request, codes issued per structure
Boom and tenon mount	On request
Safety cable	Optional, supplied with the luminaire
Cable	Lengths beyond 2.0 m on request, same H07BQ-F type
Crane Light Stabilizer	On request
Crane boom lighting frame	On request

REMOTE DRIVER

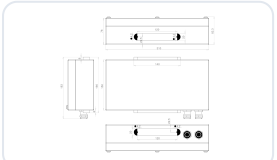
Type	BLD320 for 90–305 VAC · TLD320 for 180–528 VAC
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C
MTBF	≥ 280,000 h at 75 °C case
Size and weight	225 × 68 × 38.5 mm, 1,120 or 1,150 g
Enclosure	Bare as standard, or in the DRB-1

The LEDs outlive three drivers. The driver sits outside the luminaire and is replaced without opening the housing, so a driver fault is a ground level job instead of a lift and a dismantled luminaire.

DRB DRIVER BOXES



Aluminium DRB



316L Power Box BLD320

Use	Optional housing for the remote driver, mounted outside the wash-down zone
DRB-1	One driver, up to the 320 W TLD320 which is the largest that fits. 276 × 194 × 86.5 mm, 4.2 kg, IP66 and IP67
DRB-2	Systems up to 2,000 W. 441 × 290 × 145 mm, 10.4 kg, IP66 and IP67
316L Power Box	Power Box BLD320, solid 316L, 360 × 180 × 85 mm. For the same driver as the DRB, chosen where the box sits in the same wash-down or salt zone as the luminaire
Ingress protection	IP66 and IP67
System weight	20.2 kg, luminaire with bracket and DRB-1

Ordering, standards and documents

ORDER CODE

Example **BASS01-65K.38**

Barracuda SS, 6500 K, 38° optic

BASS01	316L stainless steel, AC, 90–305 or 180–528 VAC, remote driver
BASS02	316L stainless steel, DC, 20–35 VDC, drivers on board
65K · 40K · 27K · 22K	6500 K · 4000 K · 2700 K · amber 2200 K. 50K on request
BI	Bi-colour 4000 K with amber 2200 K
.13 · .38 · .69 · .13x46	Optic suffix, selected from the light calculation

The optic suffix follows the colour temperature, so one project can carry several beam angles. Bracket type, control protocol, cable length and the Ra 80 or Ra 90 option are confirmed at order and are not part of the code.

COMBINATIONS

Optics within one luminaire	Possible
Amber 2200 K with flare optic	Possible
Bi-colour with DALI-2	Possible
Ra 90 with 6500 K	Possible
Rear mount bracket	Available
24 V DC version	BASS02

STANDARDS AND VERIFICATION

Subject	Standard	Verification
Luminaire safety	IEC/EN 60598-1, -2-5	In-house test
EMC emission and immunity	EN 55015, EN 61547	Third party test
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68 to 5 m, IP69K	In-house test
Impact	IEC 62262, IK10 with polycarbonate	In-house test
Vibration	IEC 60068-2-6, 6 G at resonant frequency	In-house test
Shock	IEC 60068-2-27	In-house test
Corrosion	ISO 9223 class C5 and CX. EN 1993-1-4 CRC III, PREN approximately 24	In-house test
Photometry	IES LM-79, IES files per optic	In-house test
Substances	RoHS, REACH	Self-declaration

BEFORE YOU ORDER

A sample luminaire to hang before you commit to a project quantity.

Five years warranty on the complete luminaire.

A DIALux calculation from our engineers, on your site drawing.

PRODUCT PAGE

IES files and revision history, DXF and STEP on request, and project references.
jelproducts.nl/en/products/barracuda-ss

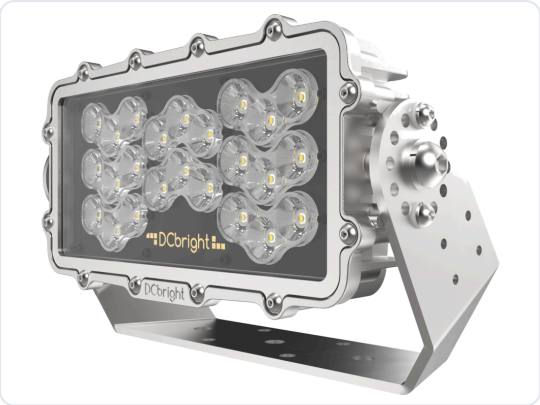
WHERE IT EARNS ITS PLACE

Where a coating is the weakest link, the Barracuda SS removes it from the equation. Solid 316L, electrolytically polished, with twenty years of warranty on the housing, at the cost of six kilograms over the aluminium version. Where mast load decides and the atmosphere is merely industrial, the cast aluminium Barracuda is the better buy.

Notes. Values are for the standard configuration. A bi-colour or high-CRI build changes the luminous flux, and the quotation states the figure that applies. Photometry, optics and light output are identical to the cast aluminium Barracuda. North American models on request.

LIGHTWEIGHT LED FLOODLIGHT

Snapper SS



Shown: Snapper SS, electrolytically polished 316L, 14° lens.

CE · IP69K · IK08 · Class II · 316L stainless steel · C5 and CX ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · 20-year housing warranty

The Snapper in solid 316L stainless steel: 26,000 lumens at 180 W in a 7.0 kg housing, with twenty years of warranty on the housing. The only version of the Snapper that carries IP69K, for marine, offshore and chemical positions where a coating is the weak point.

LUMINOUS FLUX	POWER	HOUSING
26,000 lm	180 W	316L
CORROSION	**INGRESS**	**HOUSING WARRANTY**
C5 and CX	IP69K	20 yr

Values apply to the standard version at 6500 K, Ta 25 °C, including lens losses and driver consumption. 6500 K delivers the same luminous flux as 4000 K.

WHY IT IS SPECIFIED

Twenty years of warranty on the housing. Solid 316L, electrolytically polished. Corrosion resistance is a material property, not a coating thickness.

The only Snapper with IP69K. The aluminium versions are IP66, IP67 and IP68. The 316L version adds the high pressure steam jet test, which is what a washdown regime actually applies.

7.0 kg, still a light luminaire. A stainless steel housing normally means a structural conversation. At 7.0 kg this one usually does not.

WHERE IT IS USED

- Offshore platforms and jack up rigs
- Vessel decks and working areas
- Chemical and fertiliser plant
- Water and waste water treatment
- Food and beverage process areas
- Fish farms and aquaculture
- Splash zones and permanent salt spray
- Washdown and cleaning regimes
- Coastal terminals and jetties
- Desalination and brine handling
- Cold stores and freezer plant
- Any position where a coating cannot be repaired

VERSIONS

	Snapper SS AC	Snapper SS DC
Article base code	SNSS01	SNSS02
Luminous flux	26,000 lm	22,000 lm
Power	180 W	150 W
Efficacy	144 lm/W	147 lm/W
Supply	90–305 VAC	20–35 VDC
Weight incl. bracket	7.0 kg	7.0 kg
Warranty	20 years housing, 5 years electrical	20 years housing, 5 years electrical

A 316L high temperature version and a chemically resistant HT-CHEM version are covered by the **Snapper HT** datasheet.

Light output and optics

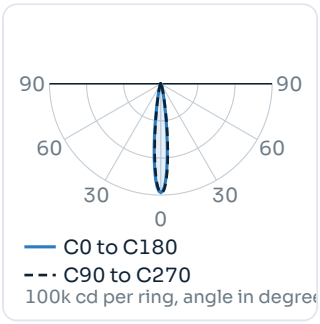
Values apply to the standard configuration at Ta 25 °C and include lens losses and driver consumption. Photometry is measured in house to IES LM-79 and the files are downloadable per optic from the product page.

BEAM CHARACTERISTICS

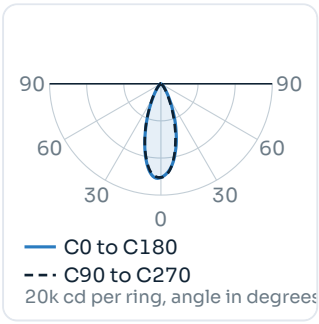
Lens	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
14°	Spot, symmetric	13°	27°	Very long throw, beyond 80 m: masts, booms, stockpiles
38°	Medium, symmetric	37°	69°	Long throw beyond 25 m: decks, quays, yards
69°	Wide, symmetric	72°	103°	Up to around 25 m: process areas, platforms, work areas
14° × 46°	Flare, asymmetric	13° × 45°	30° × 70°	Throws far forward and stays wide across: jetties, quay edges

The 316L version uses the standard JEL optics that run through the whole floodlight range, so a site can mix a Snapper SS with a Barracuda or an Orca and keep one photometric behaviour. The aluminium Snapper uses a different, off the shelf optic range; that difference is deliberate and follows from the housing.

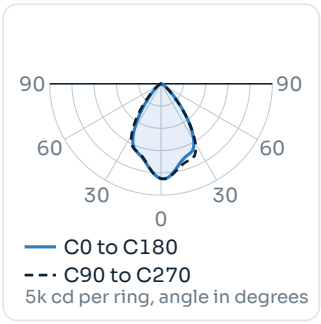
LIGHT DISTRIBUTION



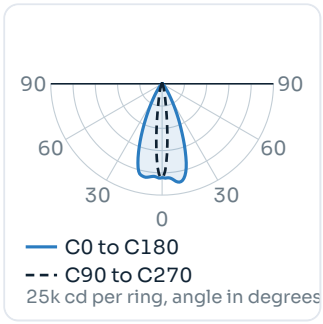
14° spot



38° medium



69° wide



14° × 46° flare

OBTRUSIVE LIGHT

ULOR at 0° tilt	**0 %**
Amber 2200 K	Available on every optic, for light sensitive surroundings
Bi-colour 4000 K with amber 2200 K	Switchable in operation, for fog, dust and night regimes

Nothing is emitted above the horizontal at 0° tilt. That is the figure a permitting authority asks for when a site borders a residential area or a protected zone, and it is the starting point for any assessment against NEN-EN 12464-2 and the NSVV guidance on obtrusive light. Where the site condition demands a cut off optic rather than a controlled floodlight, see the DarkLicht range.

COLOUR AND CONSISTENCY

Colour temperatures	6500 K, 5000 K, 4000 K, 2700 K, amber 2200 K
Flux at 6500 K	Identical to 4000 K
Bi-colour	4000 K with amber 2200 K, switchable in operation
Colour rendering	Ra > 70 standard, optionally 80 or 90
Colour consistency	MacAdam step 3 or better
LED service life	TM-21 L90B05 > 360,000 h at 50 °C

Full specification

All values apply to the standard configuration at 25 °C ambient, including lens losses and driver consumption. A hyphen means the entry does not apply to that version.

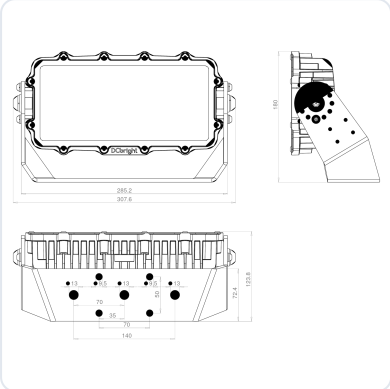
	Snapper SS AC	Snapper SS DC
PERFORMANCE		
Luminous flux	26,000 lm	22,000 lm
Power consumption	180 W	150 W
Efficacy	144 lm/W	147 lm/W
ELECTRICAL AND DRIVER		
Supply voltage range	90–305 VAC via BLD240, 50/60 Hz	20–35 VDC, 24 V nominal
Current draw	1.7 A at 110 V · 0.8 A at 220 V	6.3 A at 24 V
Power factor at full load	> 0.95 at 60 to 100 % load	-
THD at full load	< 15 % at 65 to 100 % load	-
Inrush current at 220 V	66.0 A peak, T50 0.5 ms	-
Luminaires per MCB	B16 3 · C16 6 · C25 9 · D16 10	-
Surge protection	6 kV line to line, 10 kV line to earth (IEC 61000-4-5)	-
Dimming	0–10 V, PWM, DALI-2, or over NFC	On request
Driver	Remote BLD240, fits the DRB-1	DC drivers on board
CONSTRUCTION		
Housing	Solid 316L stainless steel	
Surface finish	Electrolytically polished	
Bracket	High tensile 316L stainless steel, fully rotatable through 360° in 30° steps	
Front	Impact resistant glass, IK08	
Protection class	Class II	
Ingress protection	IP66, IP67, IP68 and IP69K, each class tested separately	
Impact resistance	IK08 (IEC 62262)	
Corrosion class	C5 and CX (ISO 9223). 316L is CRC III to EN 1993-1-4 at a PREN of approximately 24	
Vibration and shock	6 G at resonant frequency (IEC 60068-2-6), shock tested to IEC 60068-2-27	
DURABILITY AND DIMENSIONS		
Ambient temperature	−45 to +50 °C	−45 to +50 °C
LED service life	TM-21 L90B05 > 360,000 h at 50 °C	
Cable and termination	H07BQ-F, 4 cores (2 × 2.5 mm² + 2 × 0.5 mm²), 2.0 m	H07BQ-F, 2 cores (2 × 2.5 mm²), 2.0 m
Dimensions	307.6 × 180.0 × 123.8 mm including bracket	
Weight	7.0 kg incl. bracket	7.0 kg incl. bracket
Warranty	20 years on the housing. 5 years on the electronics, the components and the seals	

Power is a driver setting. Every AC version can be ordered programmed to a lower wattage by adding the wanted power as a suffix to the article code. DC versions run at a fixed constant current, so another power level there is a custom build. High voltage DC between 250 and 740 V is available on request.

Mechanics, mounting and driver

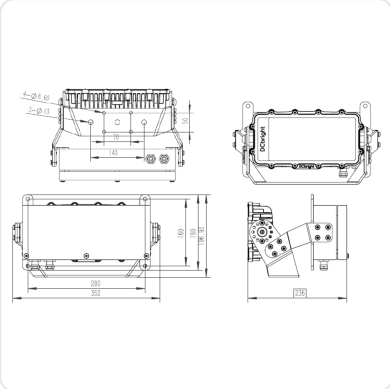
All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request.

STANDARD BRACKET



Incl. bracket	307.6 × 180.0 × 123.8 mm
Weight	7.0 kg with bracket
Material	High tensile 316L stainless steel
Adjustment	360° in 30° steps, twelve positions
Finish	Electrolytically polished, no coating to damage
Aluminium equivalent	3.1 kg, see the Snapper datasheet

SS REAR MOUNT BRACKET



Availability	AC version, flat against a structure
Material	316L stainless steel
Cable entry	Through the mounting plate
Fasteners	316L throughout
Crane mounting	Crane Light Stabilizer, separate datasheet

MOUNTING AND ACCESSORIES

Standard bracket	High tensile 316L, supplied as standard
SS rear mount bracket	Option on the AC version
Safety cable	Optional, supplied with the luminaire
Cable	Lengths beyond 2.0 m on request, same H07BQ-F type
High temperature in 316L	See the Snapper HT datasheet

REMOTE DRIVER

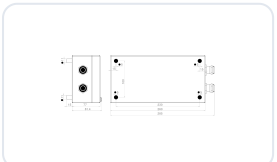
Type	BLD240, 90–305 VAC
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C
MTBF	≥ 280,000 h at 75 °C case
Size and weight	215 × 67.5 × 33.5 mm, 1,100 g
Enclosure	Bare as standard, or in the DRB-1

The LEDs outlive three drivers. The driver sits outside the luminaire and is replaced without opening the housing, so a driver fault is a ground level job instead of a lift and a dismantled luminaire.

DRB DRIVER BOXES



Aluminium DRB



316L Power Box BLD075

Use	Optional housing for the remote driver, mounted outside the wash-down zone
DRB-1	One driver up to 320 W. 276 × 194 × 86.5 mm, 4.2 kg, IP66 and IP67
DRB-2	Systems up to 2,000 W. 441 × 290 × 145 mm, 10.4 kg, IP66 and IP67
316L Power Box	Power Box BLD075, solid 316L, 260 × 130 × 80 mm. For the same driver as the DRB, chosen where the box sits in the same wash-down or salt zone as the luminaire
Ingress protection	IP66 and IP67
System weight	11.2 kg, luminaire with bracket and DRB-1

Ordering, standards and documents

ORDER CODE

Example **SNSS01-65K.38**

Snapper SS, AC, 6500 K, 38° optic

SNSS01	316L, AC, 90–305 VAC, remote BLD240
SNSS02	316L, DC, 20–35 VDC, drivers on board
65K · 50K · 40K · 27K · 22K	6500 K · 5000 K · 4000 K · 2700 K · amber 2200 K
BIC	Bi-colour 4000 K with amber 2200 K
.14 · .38 · .69 · .14x46	Optic suffix, standard JEL optics

The optic suffix follows the colour temperature. Bracket, control protocol and cable length are confirmed at order and are not part of the code.

COMBINATIONS

Optics within one luminaire	Possible
Amber 2200 K with flare optic	Possible
Bi-colour with DALI-2	Possible
SS rear mount bracket	AC version only
Chemical resistance	See the Snapper HT-CHEM
IK10 front	See the Barracuda SS

STANDARDS AND VERIFICATION

Subject	Standard	Verification
Luminaire safety	IEC/EN 60598-1, -2-5	In-house test
EMC emission and immunity	EN 55015, EN 61547	Third party test
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68, IP69K	In-house test
Impact and vibration	IEC 62262 IK08 · IEC 60068-2-6 at 6 G	In-house test
Shock and corrosion	IEC 60068-2-27 · ISO 9223 class C5, industrial and marine	In-house test
Photometry	IES LM-79, IES files per optic	In-house test
Substances	RoHS, REACH	Self-declaration

BEFORE YOU ORDER

A sample luminaire to hang before you commit to a project quantity.

Twenty years warranty on the housing, five years on the electronics.

A DIALux calculation from our engineers, on your site drawing.

PRODUCT PAGE

IES files and revision history, DXF and STEP on request, and project references.
jelproducts.nl/en/products/snapper

WHERE IT EARNS ITS PLACE

Sea water, chlorides and process chemistry do not attack a luminaire, they attack its coating. The Snapper SS removes the coating from the argument: solid 316L, electrolytically polished, with twenty years of warranty on the housing, at the cost of four kilograms over the aluminium version.

Notes. Values are for the standard configuration; a bi-colour or high-CRI build changes the luminous flux and the quotation states the figure that applies. Luminaires per MCB is the manufacturer figure for ABB S200 at 220 V, a guide for engineering and not a substitute for the installation calculation. North American models on request. The JEL range is not ATEX or Ex certified.

HEAVY DUTY LED WORK LAMP

Piranha SS



Shown: Piranha 9 SS DC, electrolytically polished 316L, 14° lens, Deutsch DT04-2P connector.

CE | IP69K | IK09 | Class II | 316L stainless steel | C5 and CX ISO 9223 | Ta −45 … +50 °C | 90–305 / 180–528 VAC | 12 and 24 VDC | Deutsch DT04-2P | Vibration 6 G | 20-year housing warranty

The Piranha in solid 316L stainless steel: the same 8,400 lumens and the same unlimited bracket rotation, in a housing that does not depend on a coating. For offshore, chemical and permanently salt loaded machine positions where a scratch is the start of the failure.

LUMINOUS FLUX	POWER	HOUSING
8,400 lm	70 W	316L
CORROSION	**INGRESS**	**IMPACT**
C5 and CX	IP69K	IK09

Values apply to the standard version at 6500 K, Ta 25 °C, including lens losses and driver consumption. 6500 K delivers the same luminous flux as 4000 K.

WHY IT IS SPECIFIED

Solid 316L, twenty years on the housing. Corrosion resistance as a material property, not as a coating thickness that a passing load can scratch through.

A pre-fitted Deutsch DT04-2P on the DC versions. A sealed connector on a two metre tail, so a machine builder can fit it without opening anything and without making a joint in a salt environment.

The same bracket range as the aluminium version. Unlimited rotation from -45 to +90 degrees, in 316L, with 316L fasteners throughout.

WHERE IT IS USED

- Offshore platform machine positions
- Deck cranes and mooring equipment
- Chemical and fertiliser plant
- Water and waste water treatment
- Food and beverage process areas
- Fish farms and aquaculture equipment
- Splash zones and permanent salt spray
- Washdown and cleaning regimes
- Dredgers and hopper equipment
- Desalination and brine handling
- Harbour and terminal vehicles
- Any machine position where a coating cannot be repaired

VERSIONS

	9 SS AC	9 SS DC	6 SS DC
Code	PISS01	PISS02	Not yet issued
Flux	8,400 lm	8,200 lm	6,300 lm
Power	70 W	70 W	55 W
Supply	90–305 / 180–528 VAC	20–32 VDC	9–35 VDC
Termination	Free wire ends	Deutsch DT04-2P	Deutsch DT04-2P
Weight	5.0 kg	5.0 kg	5.0 kg

The 316L versions are IK09: the front is chemically hardened glass or borosilicate, and the front cover is the limiting factor. For IK10 choose the aluminium **Piranha** with a polycarbonate front.

Light output and optics

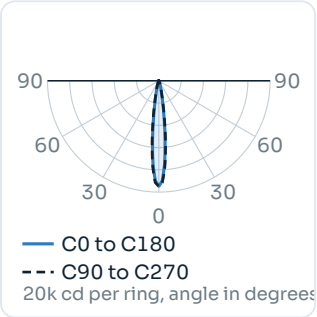
Values apply to the standard configuration at Ta 25 °C and include lens losses and driver consumption. Photometry is measured in house to IES LM-79 and the files are downloadable per optic from the product page.

BEAM CHARACTERISTICS

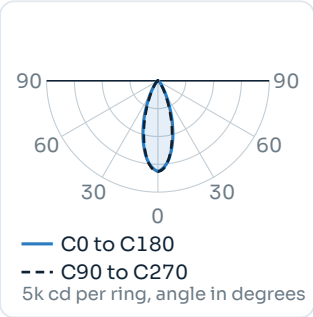
Lens	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
14°	Spot, symmetric	13°	27°	Long throw from a machine onto a distant work point
38°	Medium, symmetric	37°	69°	The general purpose choice: decks, machine areas, platforms
69°	Wide, symmetric	72°	103°	Close range over a wide field: gangways, engine rooms
14° × 46°	Flare, asymmetric	13° × 45°	30° × 70°	Throws far forward and stays wide across: gangways, jetties

The beam angle is the full angle between the two directions where the intensity has fallen to 50 % of the peak. The field angle uses 10 %. Both are read from the IES files, available per optic on the product page. Lens combinations within one luminaire are possible, and the optic is part of the order code as a suffix, for example .38.

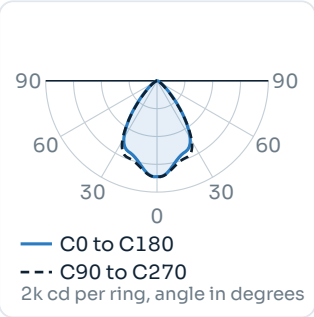
LIGHT DISTRIBUTION



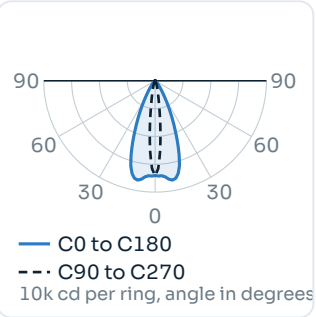
14° spot



38° medium



69° wide



14° × 46° flare

OBTRUSIVE LIGHT

ULOR at 0° tilt	**0 %**
Amber 2200 K	Available on every optic, for light sensitive surroundings
Bi-colour 4000 K with amber 2200 K	Switchable in operation, for fog, dust and night regimes

Nothing is emitted above the horizontal at 0° tilt. That is the figure a permitting authority asks for when a site borders a residential area or a protected zone, and it is the starting point for any assessment against NEN-EN 12464-2 and the NSVV guidance on obtrusive light. Where the site condition demands a cut off optic rather than a controlled floodlight, see the DarkLicht range.

COLOUR AND CONSISTENCY

Colour temperatures	6500 K, 5000 K, 4000 K, 2700 K, amber 2200 K
Flux at 6500 K	Identical to 4000 K
Bi-colour	4000 K with amber 2200 K, switchable in operation
Colour rendering	Ra > 70 standard, optionally 80 or 90
Colour consistency	MacAdam step 3 or better
LED service life	TM-21 L90B05 > 360,000 h at 50 °C

Full specification

All values apply to the standard configuration at 25 °C ambient, including lens losses and driver consumption. A hyphen means the entry does not apply to that version.

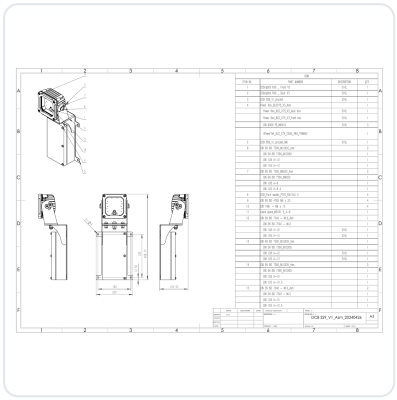
	Piranha 9 SS AC	9 SS DC	6 SS DC
PERFORMANCE			
Luminous flux	8,400 lm	8,200 lm	6,300 lm
Power consumption	70 W	70 W	55 W
Efficacy	120 lm/W	117 lm/W	115 lm/W
ELECTRICAL AND DRIVER			
Supply voltage range	90–305 or 180–528 VAC	20–32 VDC, 24 V nominal	9–35 VDC, 12 or 24 V nominal
Current draw	0.6 A at 120 V · 0.3 A at 220 to 277 V	2.9 A at 24 V	2.3 A at 24 V · 4.6 A at 12 V
Power factor at full load	> 0.9 at 65 to 100 % load	-	-
Surge protection	6 kV line to line, 10 kV line to earth (IEC 61000-4-5)	-	-
Reverse polarity and surge	-	Protected	Protected
Dimming	0–10 V, PWM, DALI-2, or over NFC	On request	On request
Driver	Remote BLD075, fits the DRB-1	DC drivers on board	DC drivers on board
CONSTRUCTION			
Housing	Solid 316L stainless steel		
Surface finish	Electrolytically polished		
Bracket	High tensile 316L stainless steel, unlimited rotation from -45° to +90°		
Front	Chemically hardened glass IK09, or borosilicate glass		
Protection class	Class II		
Ingress protection	IP66, IP67, IP68 and IP69K, each class tested separately		
Impact resistance	IK09, set by the front cover (IEC 62262)		
Corrosion class	C5 and CX (ISO 9223). 316L is CRC III to EN 1993-1-4 at a PREN of approximately 24		
Vibration and shock	6 G at resonant frequency (IEC 60068-2-6), shock tested to IEC 60068-2-27		
DURABILITY AND DIMENSIONS			
Ambient temperature	−45 to +50 °C		
LED service life	TM-21 L90B05 > 360,000 h at 50 °C		
Cable and termination	H07BQ-F, 2.0 m, free wire ends	H07BQ-F, 2.0 m with Deutsch DT04-2P	H07BQ-F, 2.0 m with Deutsch DT04-2P
Dimensions	166 × 166 × 102 mm including bracket		
Weight	5.0 kg incl. bracket		
Warranty	20 years on the housing. 5 years on the electronics, the components and the seals		

Power is a driver setting. Every AC version can be ordered programmed to a lower wattage by adding the wanted power as a suffix to the article code. DC versions run at a fixed constant current, so another power level there is a custom build. High voltage DC between 250 and 740 V is available on request.

Mechanics, mounting and driver

All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request.

BRACKET AND ROTATION



Incl. bracket	166 × 166 × 102 mm
Weight	5.0 kg with bracket
Material	High tensile 316L, 316L fasteners throughout
Rotation	Unlimited from -45° to +90°
Finish	Electrolytically polished, no coating to damage
Aluminium equivalent	135 mm wide, 152 mm over the hinge bolts, 150 mm high on the foot, 131.5 mm deep, 3.1 kg

TERMINATION

AC version	H07BQ-F, 2.0 m, free wire ends
DC versions	H07BQ-F, 2.0 m with Deutsch DT04-2P
Why a connector	No joint to make in a salt environment, and the lamp can be swapped without tools
Mating connector	Available as an accessory, not supplied as standard
Longer runs	On request, same cable type

MOUNTING AND ACCESSORIES

Standard bracket	High tensile 316L, supplied as standard
Deutsch DT04-2P	Fitted on the DC versions
Mating connector	Available as an accessory
Borosilicate front	Option where the glass sees radiant heat
Crane Light Director	On the DC versions. Separate datasheet
Cable	Lengths beyond 2.0 m on request

REMOTE DRIVER, AC VERSION

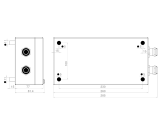
Type	BLD075, 90–305 VAC
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C
MTBF	≥ 320,000 h at 75 °C case
Size and weight	131 × 68 × 33.5 mm, 650 g
DC versions	Drivers on board, no external box

On DC there is nothing external at all. The DC versions run the drivers on the board inside the housing, terminated in a sealed Deutsch connector, so a machine gets one sealed component.

DRB DRIVER BOX



Aluminium DRB



316L Power Box BLD075

Use	Optional housing for the remote driver on the AC version
DRB-1	One driver up to 320 W. 276 × 194 × 86.5 mm, 4.2 kg, IP66 and IP67
316L Power Box	Power Box BLD075, solid 316L, for the same driver as the DRB. Chosen where the box sits in the same wash-down or salt zone as the luminaire
Ingress protection	IP66 and IP67
DC versions	Not applicable

Ordering, standards and documents

ORDER CODE

Example **PISS02-65K.38**

Piranha 9 SS, DC, 6500 K, 38° optic

PISS01	Piranha 9 SS, AC, remote BLD075
PISS02	Piranha 9 SS, DC, 20–32 VDC
Piranha 6 SS	Available, article code not yet issued
65K · 50K · 40K · 27K · 22K	6500 K · 5000 K · 4000 K · 2700 K · amber 2200 K
.14 · .38 · .69 · .14x46	Optic suffix, standard JEL optics
BORO	Borosilicate front instead of chemically hardened glass

The optic suffix follows the colour temperature. The mating Deutsch connector, cable length and front material are confirmed at order.

COMBINATIONS

Amber 2200 K with any optic	Possible
Bi-colour with DALI-2	AC version
Deutsch DT04-2P	DC versions, standard
Borosilicate front	Any version
IK10	Not available in 316L, see the aluminium Piranha
High temperature in 316L	Custom build, article code not yet issued. See also the Snapper HT

STANDARDS AND VERIFICATION

Subject	Standard	Verification
Luminaire safety	IEC/EN 60598-1, -2-5	In-house test
EMC emission and immunity	EN 55015, EN 61547	Third party test
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68, IP69K	In-house test
Impact and vibration	IEC 62262 IK09, set by the front cover · IEC 60068-2-6 at 6 G	In-house test
Shock and corrosion	IEC 60068-2-27 · ISO 9223 class C5, industrial and marine	In-house test
Photometry	IES LM-79, IES files per optic	In-house test
Substances	RoHS, REACH	Self-declaration

BEFORE YOU ORDER

A sample luminaire to hang before you commit to a project quantity.

Twenty years warranty on the housing, five years on the electronics.

A DIALux calculation from our engineers, on your site drawing.

PRODUCT PAGE

IES files and revision history, DXF and STEP on request, and project references.
jelproducts.nl/en/products/piranha

WHERE IT EARNS ITS PLACE

On a machine in salt or in process chemistry the coating is the part that fails, and on a work lamp the coating is exactly what a passing load scratches. The Piranha SS removes that from the argument at the cost of two kilograms and one impact class.

Notes. Values are for the standard configuration; a bi-colour or high-CRI build changes the luminous flux and the quotation states the figure that applies. Luminaires per MCB is the manufacturer figure for ABB S200 at 220 V, a guide for engineering and not a substitute for the installation calculation. North American models on request. The JEL range is not ATEX or Ex certified.