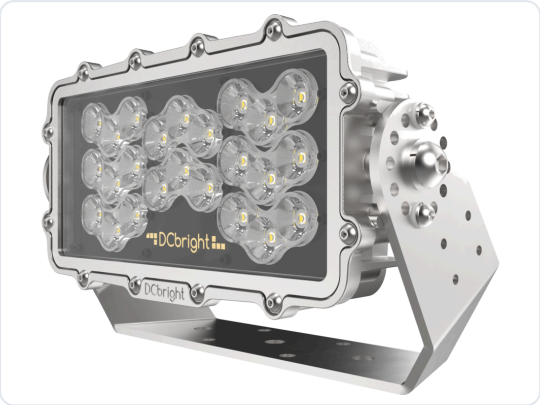
LIGHTWEIGHT LED FLOODLIGHT

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

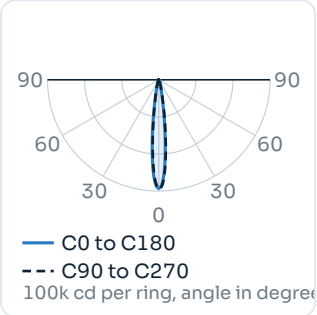
Values apply to the standard configuration at Ta 25 °C and include lens losses and driver consumption. Photometry is measured in house to IES LM-79 and the files are downloadable per optic from the product page.

BEAM CHARACTERISTICS

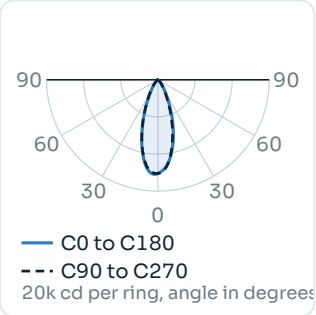
Lens	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
14°	Spot, symmetric	13°	27°	Very long throw, beyond 80 m: masts, booms, stockpiles
38°	Medium, symmetric	37°	69°	Long throw beyond 25 m: decks, quays, yards
69°	Wide, symmetric	72°	103°	Up to around 25 m: process areas, platforms, 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.

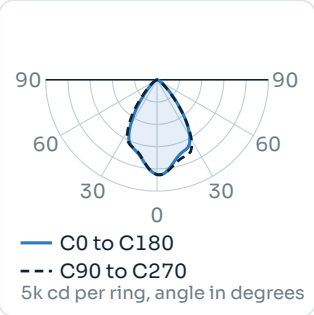
LIGHT DISTRIBUTION



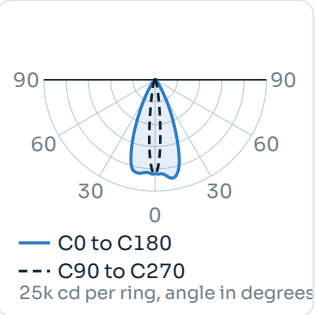
14° spot



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.

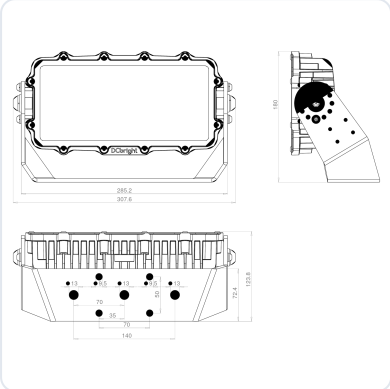
	Snapper SS AC	Snapper SS DC
PERFORMANCE		
Luminous flux	26,000 lm	22,000 lm
Power consumption	180 W	150 W
Efficacy	144 lm/W	147 lm/W
ELECTRICAL AND DRIVER		
Supply voltage range	90–305 VAC via BLD240, 50/60 Hz	20–35 VDC, 24 V nominal
Current draw	1.7 A at 110 V · 0.8 A at 220 V	6.3 A at 24 V
Power factor 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

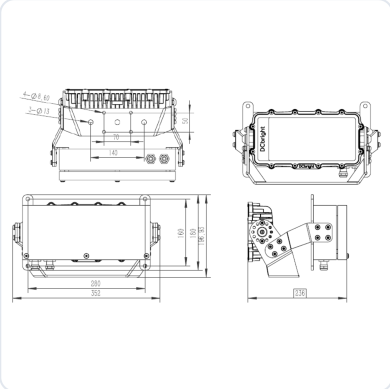
All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request.

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

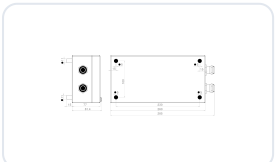
Type	BLD240, 90–305 VAC
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C
MTBF	≥ 280,000 h at 75 °C case
Size and weight	215 × 67.5 × 33.5 mm, 1,100 g
Enclosure	Bare as standard, or in the DRB-1

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.