LIGHTWEIGHT LED FLOODLIGHT

Snapper

Shown: Snapper AC, titanium-based e-coating, 15° lens, high tensile 316L bracket.

CE · IP68 · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · ULOR 0 % · 5-year warranty

One of the best lumen per kilogram ratios on the market: 31,000 lumens from a 3.1 kg cast aluminium housing. The Snapper puts a full industrial lumen package on structures that were never designed to carry one, which is what most retrofits actually need.

LUMINOUS FLUX	POWER	EFFICACY
31,000 lm	180 W	173 lm/W
WEIGHT	**INGRESS**	**IMPACT**
3.1 kg	IP68	IK08

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

Mass is a specification, not a detail. A retrofit rarely comes with a new bracket. At 3.1 kg the Snapper goes onto the structure that is already there, which removes the structural check and the crane from the job.

173 lm per watt from a sealed housing. No vents and no fan. Everything that keeps salt out stays out and everything that cools the LED is passive, so the figure holds for the life of the installation.

Nine versions on one housing. Aluminium AC and DC, 316L in AC and DC, and five high temperature versions to +120 °C. One product covers a hot process, a wet process, a vehicle and a yard.

WHERE IT IS USED

- Retrofit of discharge floodlights on existing brackets
- Crane booms and hoisting equipment
- Excavators, service vehicles and mobile plant
- Vessel deck and working area lighting
- Offshore platforms and jack up rigs
- Mobile light towers on 24 V DC
- Fish farm and aquaculture platforms
- Temporary and project site lighting
- Scaffolding and shutdown lighting
- Loading bays and yard lighting
- Workshops and vehicle bays
- Perimeter and fence line lighting

VERSIONS

	Snapper AC	DC 24 V
Article base code	SNAC01	SNDC01
Luminous flux	31,000 lm	25,000 lm
Power	180 W	150 W
Efficacy	173 lm/W	168 lm/W
Supply	90–305 VAC	20–35 VDC
Driver	Remote BLD240	On board
Weight incl. bracket	3.1 kg	3.1 kg

Also available as the **Snapper SS** in solid 316L stainless steel and as the **Snapper HT** to +120 °C, including a 316L and a chemically resistant version. Separate datasheets. The **Snapper HC** is the same module in a two or three module housing, up to 83,000 lm.

Light output and optics

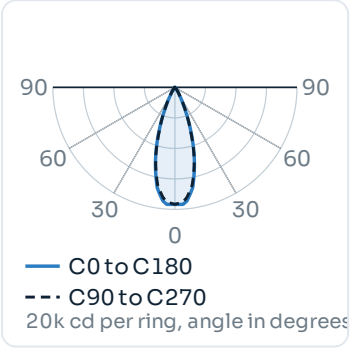
Values apply to the standard configuration at Ta 25 °C and include lens losses and driver consumption. Photometry is measured in house to IES LM-79 and the files are downloadable per optic from the product page.

BEAM CHARACTERISTICS

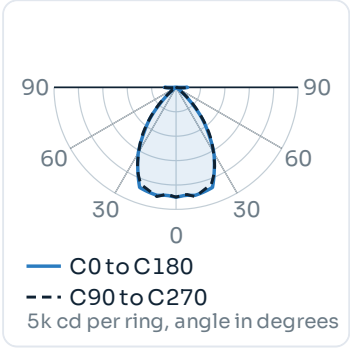
Lens	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
15°	Spot, symmetric	–	–	Very long throw: masts, crane booms, stockpiles
30°	Medium, symmetric	36°	58°	Long throw beyond 25 m: yards, quays, decks
60°	Wide, symmetric	71°	97°	Up to around 25 m: aprons, work areas, high bay
90°	Very wide, symmetric	102°	122°	Close range over a wide field: low bay, machine areas
20° × 50° and 20° × 85°	Asymmetric	–	–	Quays, aprons and long aisles, keeps spill off the water

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 %. The aluminium Snapper uses off the shelf optics rather than a proprietary set, so the choice is effectively unlimited; the 316L version uses the standard JEL optics of 14°, 38°, 69° and 14° × 46°. The 15°, 20° × 50° and 20° × 85° optics are supplied but not yet in the measured library and the file is issued with the quotation.

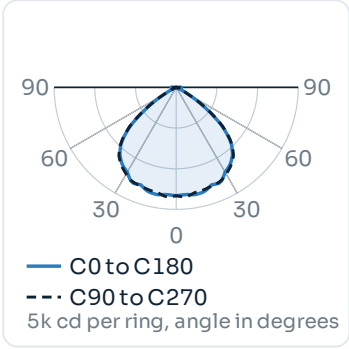
LIGHT DISTRIBUTION



30° medium



60° wide



90° very wide

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.

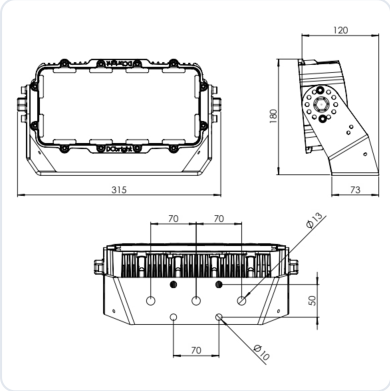
	Snapper AC	Snapper DC 24 V
PERFORMANCE		
Luminous flux	31,000 lm	25,000 lm
Power consumption	180 W	150 W
Efficacy	173 lm/W	168 lm/W
ELECTRICAL AND DRIVER		
Supply voltage range	90–305 VAC via BLD240, 50/60 Hz	20–35 VDC, 24 V nominal
Current draw	1.7 A at 110 V · 0.8 A at 220 V	6.3 A at 24 V
Power factor 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, 215 × 67.5 × 33.5 mm, 1,100 g. Fits the DRB-1	DC drivers on board
Driver life	≥ 100,000 h at Tc 75 °C, MTBF ≥ 280,000 h. Replaced without opening the luminaire	-
CONSTRUCTION		
Housing	Cast aluminium, less than 0.08 % copper	
Surface finish	Conversion layer plus 2-layer titanium-based e-coating	
Colour	Titanium Black	
Bracket	High tensile 316L stainless steel, adjustable through ±240° in 30° steps	
Front	Impact resistant glass, IK08	
Protection class	Class II	
Ingress protection	IP66, IP67 and IP68, each class tested separately	
Impact resistance	IK08 (IEC 62262)	
Corrosion class	C5 industrial and marine (ISO 9223)	
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	H07BQ-F, 2 cores (2 × 2.5 mm²), 2.0 m
Dimensions	312 × 181 × 118 mm including bracket	
Weight	3.1 kg incl. bracket, 2.7 kg housing only	3.1 kg incl. bracket
Warranty	5 years on the complete luminaire	

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

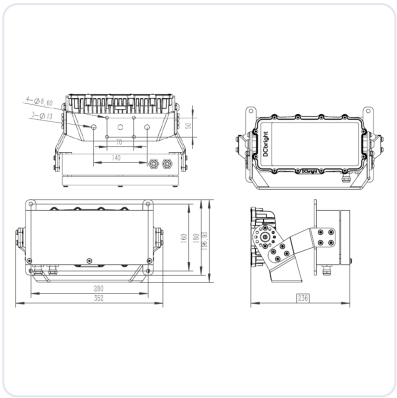
All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request.

STANDARD BRACKET



Incl. bracket	312 × 181 × 118 mm
Weight	3.1 kg with bracket, 2.7 kg housing
Material	High tensile 316L stainless steel
Adjustment	±240° in 30° steps
Retrofit	Fits most existing discharge floodlight footprints
Structural check	Rarely needed at this mass

REAR MOUNT BRACKET



Availability	AC version, flat against a structure
Material	High tensile 316L
Cable entry	Through the mounting plate
SS version	SS rear mount for the Snapper SS
Crane mounting	Crane Light Stabilizer, separate datasheet

MOUNTING AND ACCESSORIES

Standard bracket	High tensile 316L, supplied as standard
Rear mount bracket	Option on the AC version
Safety cable	Optional, supplied with the luminaire
Cable and retrofit brackets	Lengths beyond 2.0 m and structure specific brackets on request
Higher output	Snapper HC x2 and x3 on the same platform

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

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
Ingress protection	IP66 and IP67
System weight	7.3 kg, luminaire with bracket and DRB-1

Ordering, standards and documents

ORDER CODE

Example **SNAC01-65K.30**

Snapper, AC, 6500 K, 30° optic

SNAC01	AC, 90–305 VAC, remote BLD240
SNDC01	DC, 20–35 VDC, drivers on board
SNSS01 · SNSS02	316L stainless steel, AC and DC
SNHT01 … SNHT05	High temperature, aluminium, 316L and chemically resistant
65K · 50K · 40K · 27K · 22K	6500 K · 5000 K · 4000 K · 2700 K · amber 2200 K
.15 · .30 · .60 · .90 · .20x50 · .20x85	Optic suffix, aluminium versions

The optic suffix follows the colour temperature and a lower wattage is ordered as an extra suffix. The 316L versions use the standard JEL optics of 14°, 38°, 69° and 14° × 46°.

COMBINATIONS

Optics within one luminaire	Possible
Amber 2200 K with asymmetric optic	Possible
Bi-colour with DALI-2	Possible
Rear mount bracket	AC version only
IK10 front	See the Barracuda or the Shark

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 · IEC 60533 marine, bridge and open deck	TÜV
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68	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.

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/snapper

WHERE IT EARNS ITS PLACE

The Snapper earns its place on structures that already exist. Most industrial lighting projects are not new builds, they are replacements on brackets, masts and booms that were dimensioned for something else decades ago. A luminaire that fits those positions without a structural argument gets installed. One that does not gets postponed.

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.