JEL PRODUCTS
SUSTAINABLE | LIGHTING | SOLUTIONS

PRODUCT RANGE

Extreme Lighting Solutions

Industrial and marine LED lighting for the places where a normal luminaire does not last: salt, vibration, impact, submersion, heat, and sites that are not allowed to light the sky.

PRODUCT FAMILIES	VERSIONS	OUTPUT RANGE	AMBIENT
18	84	2,300 to 307,800 lm	−45 to +120 °C



Floodlights · Work lamps · DarkLicht full cut off · Linear · Canopy · Crane systems · High masts

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Contents

Eighteen product families, one page each, plus the high temperature and the 316L programme.

1	**Contents**	How this document is built
2	**The range in one page**	Five groups, eighteen families, and what runs through all of them
3	**Five sectors**	What we design for, and which families answer it

FLOODLIGHTS

4	**Orca**	111,300 lm
5	**Shark**	50,000 lm
6	**Barracuda**	44,100 lm
7	**Snapper HC**	up to 83,000 lm
8	**Snapper**	31,000 lm
9	**Marlin**	18,000 lm

WORK LAMPS

10	**Piranha**	8,400 lm
11	**Goby**	up to 8,200 lm
12	**Goby Mini**	2,300 lm

DARKLICHT, FULL CUT OFF

13	**DarkLicht Mini**	4,800 lm
14	**DarkLicht S**	12,825 lm
15	**DarkLicht M**	up to 51,300 lm
16	**DarkLicht D**	up to 34,200 lm
17	**DarkLicht WP**	up to 16,000 lm
18	**One, Two and Three**	up to 307,800 lm

LINEAR AND CANOPY

19	**Linear**	up to 25,600 lm
20	**Manta canopy**	22,400 lm

PROGRAMMES AND DOWNLOADS

21	**High temperature**	What changes in an HT build, the temperature ladder and where it is used
22	**The six HT versions**	Orca, Linear, Barracuda, Manta, Snapper and Goby to +120 °C
23	**316L stainless steel**	When a coating is not enough, and what it costs in weight
24	**The four 316L versions**	Orca, Barracuda, Snapper and Piranha in solid 316L
25	**Collected datasheets**	Floodlights · Work Lamps · 316L · High Temperature · DarkLicht

HOW TO READ THIS DOCUMENT

This is the range in outline: one page per family, with what it is, where it is used and what versions exist. It is not a technical datasheet and it deliberately does not carry the full specification.

Every family has a separate technical datasheet of five or six pages with the photometry, the complete specification, the mechanics and the ordering information. Those are collected per group in five documents, listed on the last page.

The range in one page

Eighteen product families in five groups. Every luminaire in every group is built to the same environmental standard: cast aluminium with less than 0.08 % copper under a titanium based e-coating, or solid 316L stainless steel, corrosion class C5 and CX, and an operating range that starts at −45 °C.

Group	Families	Output	Chosen for
Floodlights	Orca · Shark · Barracuda · Snapper HC · Snapper · Marlin	18,000 to 111,300 lm	Masts, booms, quays and yards. Output and mechanical robustness
Work lamps	Piranha · Goby · Goby Mini	2,300 to 8,400 lm	Machines and vehicles on 9 to 32 V DC, with the drivers on board
DarkLicht, full cut off	Mini · S · M · D · WP · One, Two and Three	4,800 to 307,800 lm	Sites with an obtrusive light condition. 0 % upward light
Linear	Linear · Linear HT	3,900 to 25,600 lm	Aisles, process lines and washdown areas. 213 lm/W
Canopy	Manta	7,500 to 22,400 lm	Forecourts and covered areas. 224 lm/W, IP69K

THREE THINGS THAT RUN THROUGH THE WHOLE RANGE

High temperature	Orca, Barracuda, Snapper, Goby, Linear and Manta all have a version for a continuous ambient of +120 °C, with the driver mounted outside the hot zone
316L stainless steel	Orca, Barracuda, Snapper and Piranha are available in solid, electrolytically polished 316L with twenty years of warranty on the housing
DC	Almost every family has a DC version. 24 V throughout, 48 V on the Orca and the Shark, and 9 to 32 V on the work lamps

SYSTEMS AND SERVICES

Crane Light Director	Steerable boom lighting for mobile cranes, fitted as a retrofit and operated from the cabin
Crane Light Stabilizer	Holds the beam on the work zone while the boom moves, mechanically, without hydraulics or electronics
High masts	Masts to 50 m, with engineering and foundations
Light advice	DIALux calculations to the NSVV guideline, on your site drawing
Engineering	From a colour change to an entirely new luminaire
Installation and maintenance	Turn key, with VCA certified technicians

WHAT IS NOT IN THE RANGE

The JEL range is not ATEX or Ex certified. Where an explosive atmosphere is part of the specification we will say so at the first conversation rather than at the tender.

Five sectors

The range is not organised by product type but by what breaks a luminaire. These are the five conditions we design for, and the families that answer each of them.

Sector	The condition	Typical specification
Ports and terminals	High wind exposure, marine corrosion, and operator visibility across very large areas	Snapper HC on STS and RTG booms · DarkLicht One, Two and Three on high masts · Orca on heavy lift
Offshore and maritime	Permanent salt, limited maintenance access and positions that cannot be reached under way	Barracuda SS and Orca SS in 316L · Piranha SS on deck machinery · Snapper on existing brackets
Heavy industry and heat	Ambient temperatures to +120 °C, infrared radiation, dust and vibration	Orca HT and Barracuda HT with optics · Snapper HT and Goby HT close to the work · Linear HT along a run
Construction and infrastructure	Temporary positions, generator supplies, and an obtrusive light condition on almost every site	DarkLicht M on light towers and tower cranes · DarkLicht D on the terrain · Snapper for retrofit
Mobile machines	Continuous vibration and shock, DC supplies, and IP69K cleaning cycles	Shark with a 200 G bracket · Piranha and Goby on 12 and 24 V DC · Crane Light Director on mobile cranes

WHAT WE TEST, AND WHERE

EMC	EN 55015 and EN 61547, third party tested
Obtrusive light	DarkSky DS-1, third party tested on the DarkLicht range
Ingress	IEC 60529 and ISO 20653, every class tested separately
Impact, vibration and shock	IEC 62262, IEC 60068-2-6 and -2-27, in house
Corrosion	ISO 9223 class C5, and CX on the 316L versions
Photometry	IES LM-79, with LM-80 and TM-21 for the LED service life

WHAT THAT MEANS ON A DATASHEET

Every ingress class that was tested is stated, not only the highest one, because IP69K does not imply IP68: a high pressure steam jet and an immersion test are two different tests. Impact resistance is stated with the front cover that is actually supplied, because polycarbonate gives IK10 and glass gives IK09 and that is a choice the specifier makes. LED service life is stated as L90B05 rather than L90B10.

None of this is unusual to test. It is unusual to publish, and it is the reason a JEL datasheet is longer than the one it is being compared with.

INDUSTRIAL LED FLOODLIGHT

Orca



The highest output floodlight in the JEL range: 111,300 lumens from 156 lenses in one cast aluminium housing, in AC and in 24 and 48 V DC. Specified where mounting points are few and expensive to reach, and chosen for the Mammoet SK6000, the largest land based crane in the world.

LUMINOUS FLUX	POWER	EFFICACY
111,300 lm	**800** W	**139** lm/W

WHERE IT IS USED

- Offshore platform deck lighting
- Ring cranes and heavy lift cranes
- Shipyard building docks and dry docks
- Steel plant bays and casting floors
- Open cast mining benches and haul roads
- Large excavators and mining machines
- Quarry crushing and screening plant
- Log yards and bulk storage yards

VERSIONS

	Orca AC	DC 24 V	DC 48 V
Article base code	ORAC01	ORDC01	ORDC02
Luminous flux	111,300 lm	100,200 lm	100,200 lm
Power	800 W	800 W	800 W
Supply	180–528 VAC	20–35 VDC	35–60 VDC
Driver	Remote TLD800	On board	On board
Weight incl. bracket	22.7 kg	22.7 kg	22.7 kg

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 180–528 VAC · 24 and 48 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · ULOR 0 % · 5-year warranty

OTHER VERSIONS

	Orca SS	Solid 316L stainless steel, 36.3 kg, twenty years of warranty on the housing	Separate datasheet
	Orca HT	Ambient to +120 °C, driver outside the hot zone	Separate datasheet
	316L HT	A 316L high temperature build	On request
	Rear mount	Driver box on the back instead of remote	Option on the AC version

WHERE IT EARNS ITS PLACE

Access is expensive and mounting points are few. One Orca instead of three floodlights reduces the number of positions that will ever need reaching again.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

INDUSTRIAL LED FLOODLIGHT

Shark



The second generation of the JEL heavy duty line. Built on more than thirteen years of Barracuda experience in mining, and more efficient at 156 lm per watt and lighter per lumen at 9.2 kg. Available in AC and in 24 and 48 V DC, with a mounting bracket rated to 200 G.

LUMINOUS FLUX	POWER	EFFICACY
50,000 lm	**320** W	**156** lm/W

WHERE IT IS USED

- Mining haul trucks, excavators and loaders
- Large electric cranes on a 35 to 60 V DC supply
- Crane booms, with the Crane Light Stabilizer
- Mobile light towers, including the 2Axle
- Reach stackers and straddle carriers
- Mobile crushing and screening plant
- Vessels and workboats with a DC supply
- Offshore installations, in Marine White

VERSIONS

	Shark AC	DC 24 V	DC 48 V
Article base code	SHAC01	SHDC01	SHDC02
Luminous flux	50,000 lm	44,600 lm	44,600 lm
Power	320 W	320 W	320 W
Supply	90–305 / 180–528 VAC	20–35 VDC	35–60 VDC
Driver	Remote BLD320	On board	On board
Weight incl. bracket	9.2 kg	9.2 kg	9.2 kg

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 / 180–528 VAC · 24 and 48 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · Shock 200 G · ULOR 0 %

OTHER VERSIONS

No 316L, no HT	Deliberate: the Barracuda fills both on the same accessory line	See the Barracuda SS and Barracuda HT

WHERE IT EARNS ITS PLACE

Machines. A haul truck, a crawler crane or a workboat has a DC supply, a shock profile and a mounting position that a building never has.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

INDUSTRIAL LED FLOODLIGHT

Barracuda



The wide-body heavy-duty floodlight for large areas: 44,100 lumens at 320 W out of one cast aluminium housing, rated IP69K and IK10. For container terminals, quays, yards and process plants where output and mechanical robustness weigh heavier than the last kilogram.

LUMINOUS FLUX	POWER	EFFICACY
44,100 lm	320 W	138 lm/W

WHERE IT IS USED

- Container terminals and stacking yards
- Ship to shore and RTG crane booms
- Quays, jetties and ro-ro ramps
- Bulk terminals and stockpiles
- Shipyards and dry docks
- Process plants and tank farms
- Outdoor storage and log yards
- Recycling and waste transfer sites

VERSIONS

	Barracuda AC	DC 24 V
Article base code	BAAC01	BADC01
Luminous flux	44,100 lm	40,800 lm
Power	320 W	320 W
Efficacy	138 lm/W	128 lm/W
Supply	90–305 / 180–528 VAC	20–35 VDC
Driver	Remote	On board

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 / 180–528 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · ULOR 0 % · 5-year warranty

OTHER VERSIONS

	Barracuda SS	Solid 316L stainless steel, twenty years of warranty on the housing	Separate datasheet
	Barracuda HT	Ambient to +120 °C, remote driver, HT glass optics 20°, 40° and 60°	Separate datasheet
	Rear mount	Driver box on the back instead of remote	Option on the AC version

WHERE IT EARNS ITS PLACE

Where the environment attacks the luminaire rather than merely surrounds it: salt, vibration, impact, submersion and heat at the same time.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

HIGH CAPACITY LED FLOODLIGHT

Snapper HC



The highest light output per kilogram in the JEL range: 83,000 lumens at 12.6 kg, in one, two or three cast modules on a single bracket. Built for cranes and masts that need a large lumen package without the mass that normally comes with it, and available in 24 V DC for light towers and crane supplies.

LUMINOUS FLUX	WEIGHT	EFFICACY
83,000 lm	**12.6** kg	**166** lm/W

WHERE IT IS USED

- Ship to shore and RTG crane booms
- RMG and rail mounted gantry cranes
- Container terminal and quay apron lighting
- Mobile light towers, directly on 24 V DC
- Ro-ro ramps and vehicle decks
- Offshore terminals and jetties
- Warehouse and distribution centre high bay
- Cold store high bay

VERSIONS

	x1	x2	x3
Article base code	see the Snapper	SNHC02 AC · SNHC03 DC	SNHC04 and SNHC05 AC · SNHC06 DC
Luminous flux AC	31,000 lm	55,000 lm	83,000 lm
Power AC	180 W	320 or 270 W	500 or 400 W
Luminous flux DC 24 V	25,000 lm	44,100 lm	66,200 lm
Dimensions	307.6 × 180.7 × 118.2	320 × 314 × 205	320 × 484 × 205
Weight incl. bracket	3.1 kg	9.9 kg	12.6 kg
Driver	BLD240	BLD320	TLD400 or TLD600

CE · IP68 · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 / 180–528 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · ULOR 0 % · safety cable optional

OTHER VERSIONS

Snapper	The x1 of this platform, including the 316L and the high temperature versions	Separate datasheet
x2 and x3	Two and three modules on one bracket, top mount or side mount	In this datasheet
No Snapper HC HT	Not available at this output	See the Barracuda HT or the Orca HT

WHERE IT EARNS ITS PLACE

Structures that move and structures that count every kilogram. 83,000 lm at 12.6 kg is why the lighting can go where it is actually needed.

LIGHTWEIGHT LED FLOODLIGHT

Snapper



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

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

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

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

OTHER VERSIONS

 Snapper SS	Solid 316L stainless steel	Separate datasheet
 Snapper HT	Ambient to +120 °C, including a 316L and a chemically resistant HT-CHEM build	Separate datasheet
 Snapper HC	The same platform as x2 and x3 for higher output	Separate datasheet

WHERE IT EARNS ITS PLACE

Structures that already exist. A luminaire that fits an old bracket without a structural argument gets installed; one that does not gets postponed.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

COMPACT HEAVY DUTY LED FLOODLIGHT

Marlin



18,000 lumens at 5.5 kg in a housing of 235 × 215 × 90 mm. The Marlin is the luminaire for the positions where a work lamp is not enough and a Barracuda or an Orca does not fit, and it is the largest luminaire the Crane Light Director carries.

LUMINOUS FLUX	POWER	EFFICACY
18,000 lm	**120** W	**150** lm/W

WHERE IT IS USED

- Mobile crane booms, on the Crane Light Director
- Tower crane jibs and cab positions
- Overhead and gantry crane runways
- Ship to shore crane trolley lighting
- Machine mounted and mobile equipment lighting
- Offshore and maritime work decks
- Service platforms and gantries
- Steel, bulk handling and production plant

VERSIONS

	Marlin AC	Marlin DC
Article base code	MAAC01	MADC01
Luminous flux	18,000 lm	16,900 lm
Power	120 W	120 W
Efficacy	150 lm/W	141 lm/W
Supply	90–305 / 180–528 VAC	20–35 VDC
Driver	Remote TLD160	On board

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 / 180–528 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · Vibration 6 G · Crane Light Director · 5-year warranty

OTHER VERSIONS

No 316L, no HT	Not available on this housing	For 316L see the Barracuda SS or Snapper SS, for high ambient the Barracuda HT or Snapper HT

WHERE IT EARNS ITS PLACE

The positions that are too small for a floodlight and too important for a work lamp, on a crane boom or a machine frame.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

HEAVY DUTY LED WORK LAMP

Piranha



The indestructible work lamp of the range. 8,400 lumens, IP69K, IK10 and a 316L bracket that swings from -45 to +90 degrees without a stop, for machines, cranes and heavy plant.

LUMINOUS FLUX	POWER	WEIGHT
8,400 lm	70 W	3.1 kg

WHERE IT IS USED

- Mining haul trucks and excavators
- Loaders, dozers and rough terrain machines
- Crane cabs, booms and service positions
- Service and maintenance vehicles
- Grinding, digging and material handling zones
- Machine and process area task lighting
- Ship gangways and mooring stations
- Engine rooms and pump rooms

VERSIONS

	Piranha 9 AC	Piranha 9 DC	Piranha 6 DC
Code	PIAC01	PIDC02	PIDC01
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, 12 or 24 V
Driver	Remote BLD075	On board	On board
Weight	3.1 kg	3.1 kg	3.1 kg

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 / 180–528 VAC · 12 and 24 VDC · Deutsch DT04-2P · Vibration 6 G · Crane Light Director · 5-year warranty

OTHER VERSIONS

 Piranha SS	Solid 316L stainless steel, IK09 with a glass or diffuse borosilicate front	Separate datasheet
 Piranha 6 in AC	Not available and will not be	Use the DC version
High temperature	Not available on this housing	See the Goby HT or the Snapper HT

WHERE IT EARNS ITS PLACE

On the machine. A work lamp on heavy plant is a component that has to survive the same duty cycle as the hydraulics around it.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

PROFESSIONAL LED WORK LAMP

Goby



The versatile professional work lamp of the range. Four output levels from 4,600 to 8,200 lumens on 9 to 32 volts DC, in a 1.8 kg housing rated IP69K and IK10, with the Deutsch connector fitted in the housing so there is no cable tail to route or damage.

LUMINOUS FLUX	POWER	WEIGHT
8,200 lm	**65** W	**1.8** kg

WHERE IT IS USED

- Machine and vehicle integration on 12 and 24 V DC
- Mobile crane booms, on the Crane Light Director
- Service and maintenance vehicles
- Excavators, loaders and forklifts
- Workstation and inspection positions
- Engine rooms, pump rooms and switch rooms
- Ship accommodation and working alleyways
- Access platforms, ladders and stairs

VERSIONS

	Ultra	**Pro**	**9**	**6**
Code	GODC07	GODC06	GODC05	GODC03
Flux	8,200 lm	7,200 lm	6,300 lm	4,600 lm
Power	65 W	55 W	55 W	35 W
Efficacy	126 lm/W	131 lm/W	115 lm/W	131 lm/W
Supply	20–32 V	9–32 V	9–32 V	9–32 V

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 9–32 VDC · 12 and 24 V · Deutsch DTP04 in housing · Vibration 6 G · Crane Light Director · 5-year warranty

OTHER VERSIONS

	Goby HT	Ambient to +120 °C, AC and 24 V DC, 120° very wide only	Separate datasheet
	No 316L	Not available on this housing	See the Piranha SS

WHERE IT EARNS ITS PLACE

At the working position. Most of the light a person works under is not the floodlight on the mast, it is the lamp two metres from the task.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

COMPACT LED WORK LAMP

Goby Mini



2,300 lumens in 112 × 70 × 60 millimetres, at 1.1 kilograms. The Goby Mini is for machines, vehicles and mounting positions that have no room for a luminaire and still have to be lit to an industrial standard.

LUMINOUS FLUX	POWER	WEIGHT
2,300 lm	**18** W	**1.1** kg

WHERE IT IS USED

- Compact machinery and vehicle positions
- Mobile crane booms, on the Crane Light Director
- OEM integration on equipment
- Service points and maintenance zones
- Forklifts, reach trucks and small plant
- Machine interiors and tool areas
- Ladder, hatch and step positions
- Small pump and valve stations

VERSIONS

	Goby Mini
Article base code	GODC01
Luminous flux	2,300 lm
Power	18 W
Efficacy	128 lm/W
Supply	9–32 VDC, 12 and 24 V nominal
Dimensions	112 × 70 × 60 mm, 90.5 mm high over the bracket

CE · IP69K · IK10 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 9–32 VDC · 12 and 24 V · Deutsch DTP04 in housing · Vibration 6 G · Crane Light Director · 5-year warranty

OTHER VERSIONS

No HT, no 316L	Not available on this housing	See the Goby HT and the Piranha SS
More output	The same idea one size up	See the Goby at 4,600 to 8,200 lm

WHERE IT EARNS ITS PLACE

The positions a lighting design never reaches: machine interiors, hatches, small platforms and tight mounting points.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

GLARE FREE LED WORK LAMP

DarkLicht Mini



4,800 lumens with no glare at all. The DarkLicht Mini is the compact cut off work lamp for machines and vehicles working where people are: the light reaches the work and not the operator, the driver behind, or the people standing next to the machine.

LUMINOUS FLUX	POWER	EFFICACY
4,800 lm	**30** W	**160** lm/W

WHERE IT IS USED

- Service and maintenance vehicles
- Forklifts and reach trucks
- Asphalt machines and paving trains
- Small excavators and loaders
- Sweepers and winter service vehicles
- Mobile crane booms, on the Crane Light Director
- Municipal and utility vehicles
- Airport and terminal ground support equipment

VERSIONS

	DarkLicht Mini
Article base code	DRKM01
Luminous flux	4,800 lm
Power	30 W
Efficacy	160 lm/W
Supply	10–50 VDC, 12, 24 or 36 V nominal
Dimensions	179 × 120 × 95 mm

CE · ENEC · IP69K · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 10–50 VDC · ULOR 0 % · DarkSky DS-1 · cut off 63–75° · 5-year warranty

OTHER VERSIONS

More output, same cut off	A larger housing on the same principle	See the DarkLicht S
No HT, no 316L	Not available on this housing	See the Goby HT and the Piranha SS

WHERE IT EARNS ITS PLACE

Machines that work where people are. Everything the lamp throws past the work lands on somebody.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

GLARE FREE LED WORK LAMP

DarkLicht S



12,825 lumens with a full cut off beyond the set angle. The strongest cut off work lamp in the range: floodlight output on a machine bracket, without the spill that makes a floodlight unusable on mobile plant.

LUMINOUS FLUX	POWER	EFFICACY
12,825 lm	**75** W	**171** lm/W

WHERE IT IS USED

- Mining and extraction equipment
- Asphalt machines and paving trains
- Service and maintenance vehicles
- Mobile crane booms, on the Crane Light Director
- Excavators and loaders working at night
- Drilling and foundation rigs
- Rail maintenance and tamping machines
- Harbour and terminal vehicles

VERSIONS

	DarkLicht S75	DarkLicht S60
Article base code	DRKS02	DRKS01
Luminous flux	12,825 lm	10,260 lm
Power	75 W	60 W
Efficacy	171 lm/W	171 lm/W
Supply	20–32 VDC	9–32 VDC, 12 or 24 V
Dimensions	260 × 200 × 130 mm	260 × 200 × 130 mm

CE · IP69K · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 9–32 VDC · ULOR 0 % · DarkSky DS-1 · cut off 63–75° · Crane Light Director · 5-year warranty

OTHER VERSIONS

Both versions are DC	AC is not available on this housing	See the DarkLicht M for a mains installation
Fixed mast installation	More output with the same cut off	See the DarkLicht M at 25,700 and 51,300 lm

WHERE IT EARNS ITS PLACE

Machines that work all night in places where somebody is watching: asphalt on a live carriageway, mining at the face, cranes on site.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

GLARE FREE LED FLOODLIGHT

DarkLicht M



51,300 lumens completely without glare. The heavy cut off floodlight of the range, for mobile light towers, cranes and construction sites that have to deliver full working light next to housing, a carriageway or a protected area. Available in 24 V DC as well as AC.

LUMINOUS FLUX	POWER	EFFICACY
51,300 lm	**300** W	**171** lm/W

WHERE IT IS USED

- Mobile and towable light towers
- Tower cranes and mobile cranes
- Construction and infrastructure sites
- Night work on and alongside roads
- Industrial sites bordering housing
- Rail works and possession lighting
- Demolition and remediation sites
- Event and temporary site lighting

VERSIONS

	M300	M150
Article base code	DRKM05 AC · DRKM04 DC	DRKM03 AC · DRKM02 DC
Luminous flux	51,300 lm	25,700 lm
Power	300 W	150 W
Efficacy	171 lm/W	171 lm/W
Supply	90–305 VAC or 20–32 VDC	90–305 VAC or 20–32 VDC
Dimensions	287 × 350 × 207 mm	268 × 248 × 180 mm

CE · IP69K · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · 24 VDC · ULOR 0 % · DarkSky DS-1 · cut off 63–75° · NSVV

OTHER VERSIONS

Fixed terrain on mains	Simpler and more economical for that case	See the DarkLicht D
Both output levels	Available in AC and in 24 V DC	In this datasheet

WHERE IT EARNS ITS PLACE

Projects that move and still have neighbours. Fixed shields and careful aiming do not survive that. An optic does.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

GLARE FREE LED FLOODLIGHT

DarkLicht D



The straightforward terrain floodlight of the DarkLicht family. 10,300 to 34,200 lumens on mains supply with the driver inside the housing, full cut off, and all of the light on the site instead of on the neighbours, the road or the sky.

LUMINOUS FLUX	POWER	EFFICACY
34,200 lm	**200** W	**171** lm/W

WHERE IT IS USED

- Industrial yards and hardstanding
- Car parks and staff parking
- Loading and unloading zones
- Temporary construction site lighting
- Distribution and logistics yards
- Perimeter and fence line lighting
- Rail yards and depots
- Storage and laydown areas

VERSIONS

	D200	D120	D60
Code	DRKD03	DRKD02	DRKD01
Flux	34,200 lm	20,500 lm	10,300 lm
Power	200 W	120 W	60 W
Driver	Internal BLD200	Internal BLD120	Internal BLD120
Dimensions	540 × 270 × 110	440 × 270 × 110	440 × 270 × 110
Weight	8.5 kg	7.1 kg	6.9 kg

CE · IP67 · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · internal driver · ULOR 0 % · DarkSky DS-1 · cut off 63–75° · NSVV

OTHER VERSIONS

IP66 and IP67	Deliberate, these are terrain products, not washdown products	For washdown choose the DarkLicht M
Three sizes	D60, D120 and D200 on one housing family	In this datasheet

WHERE IT EARNS ITS PLACE

Ordinary sites with one demanding condition: a line in the permit about upward and spill light.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

GLARE FREE LED WALL PACK

DarkLicht WP



The wall pack is where obtrusive light usually starts. The DarkLicht WP mounts on the building and lights the ground in front of it, with a deep parabolic reflector that keeps the light off the facade, out of the windows beside it and out of the sky. Driver and control inside, power settable from 10 W.

LUMINOUS FLUX	POWER	EFFICACY
16,000 lm	10–100 W	160 lm/W

WHERE IT IS USED

- Building perimeters and service routes
- Loading docks and goods entrances
- Business park and commercial facades
- Fire escape routes and muster points
- External stairs and emergency exit doors
- Yard walls and boundary structures
- Under canopy and overhang positions
- Substation and plant room exteriors

VERSIONS

	Wallpack 100	Wallpack 60
Article base code	DRKW01	DRKW02
Luminous flux	16,000 lm	9,600 lm
Power	100 W, settable from 10 W	60 W, settable from 10 W
Efficacy	160 lm/W	160 lm/W
Supply	90–305 VAC	90–305 VAC
Driver	Internal BLD120	Internal BLD120
Dimensions	345 × 181 × 96 mm	345 × 181 × 96 mm

CE · IP69K · IK08 · Class I · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · internal driver · DALI-2 · sensor ready · ULOR 0 % · DarkSky DS-1 · 10–100 W settable

OTHER VERSIONS

One housing, two levels	The output level is a setting, not a different fitting	In this datasheet

WHERE IT EARNS ITS PLACE

Along the building line. Perimeter routes and dock doors are the closest lighting on a site to the people who live next to it.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

GLARE FREE LED AREA LIGHT

DarkLicht One, Two and Three



One product line in six power levels, from 51,200 to 307,800 lumens out of a single luminaire, with 0 % upward light. The high mast decides whether a site meets its obtrusive light condition.

LUMINOUS FLUX	POWER	EFFICACY
307,800 lm	**1,800** W	**171** lm/W

WHERE IT IS USED

- Container and intermodal terminal high masts
- Port and quay areas with a residential boundary
- Tower cranes, on the tower crane frame
- Sports fields and training grounds
- Logistics and distribution high mast lighting
- Vehicle storage and compound lighting
- Large car parks and park and ride sites
- Rail yards and marshalling areas

VERSIONS

	One	Two	Three
Flux	51,200 to 102,600 lm	136,800 to 205,200 lm	307,800 lm
Power	320 · 400 · 600 W	800 · 1,200 W	1,800 W
Size	365 × 550 × 160	635 × 550 × 160	905 × 550 × 160
Weight	14.0 to 15.0 kg	24.8 kg	35.0 kg
Driver	Internal to 400 W	External	External

CE · IP67 · IK07 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 180–528 VAC · up to 307,800 lm · ULOR 0 % · DarkSky DS-1 · EN 12193 · NSVV

OTHER VERSIONS

DarkLicht One	51,200 to 102,600 lm, driver internal to 400 W	Separate datasheet
DarkLicht Two	136,800 and 205,200 lm, external driver	Separate datasheet
DarkLicht Three	307,800 lm from one housing	Separate datasheet
Driver placement	From 600 W the driver goes up the mast with the luminaire	Counted in the wind load table

WHERE IT EARNS ITS PLACE

Projects that would otherwise not be permitted. The high mast decides whether a site meets its obtrusive light condition.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

INDUSTRIAL LINEAR LED LUMINAIRE

Linear



213 lumens per watt in a cast aluminium housing rated IP69K and IK09. The Linear is for the places where a tube shaped IP69K fitting with plastic end caps does not last: washdown, vibration, impact and cold. Four lengths, in AC and in 24 V DC, and linkable into a continuous run.

LUMINOUS FLUX	POWER	EFFICACY
25,600 lm	**120** W	**213** lm/W

WHERE IT IS USED

- Food and beverage process lines with daily washdown
- Production lines and conveyor runs
- Warehouse and picking aisles
- Cold store aisles and freezer corridors
- Machine and process line mounting
- Inspection and packing lines
- Car park decks and undercroft parking
- Corridors, walkways and service tunnels

VERSIONS

	LIN30	LIN60	LIN90	LIN120
Length	300 mm	600 mm	900 mm	1,200 mm
Flux AC	6,400 lm	12,800 lm	19,200 lm	25,600 lm
Flux DC	5,600 lm	11,200 lm	16,700 lm	22,300 lm
Power	30 W	60 W	90 W	120 W
Weight	3.45 kg	5.05 kg	6.8 kg	8.4 kg

CE · IP69K · IK09 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · 24 VDC · DALI-2 · 0–10 V · PWM · NFC · linkable · internal driver · 5-year warranty

OTHER VERSIONS

	Linear HT	All four lengths to +120 °C in AC and +110 °C in DC	Separate datasheet
	Four lengths	LIN30, LIN60, LIN90 and LIN120, in AC and 24 V DC	In this datasheet

WHERE IT EARNS ITS PLACE

The aisle and the line. The shape of the space is a line rather than a field, and the fitting is washed down, knocked and vibrated as normal operation.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

CANOPY LED LUMINAIRE

Manta canopy



224 lumens per watt, the highest efficacy in the JEL range. The canopy luminaire for forecourts and covered areas, in a 380 × 380 mm panel that recesses, surface mounts, or drops into an existing CREE 304 opening.

LUMINOUS FLUX	POWER	EFFICACY
22,400 lm	**100** W	**224** lm/W

WHERE IT IS USED

- Fuel and service station forecourts
- Truck and fleet fuelling canopies
- Loading dock canopies and shelters
- Covered walkways and passenger canopies
- Car park entrances and pay stations
- Drive through lanes
- Wash bay and inspection canopies
- Weighbridge and gatehouse covers

VERSIONS

	Recess	Surface	Surface Extended
Code	MNAC02	MNAC01	MNAC03
Flux	22,400 lm	22,400 lm	22,400 lm
With optics	20,600 lm	20,600 lm	20,600 lm
Depth	21 mm	70 mm	118 mm
Weight	3.9 kg	4.9 kg	5.4 kg

CE · IP69K · IK08 · Class II · C5 ISO 9223 · Ta −45 … +50 °C · 90–305 VAC · internal driver · DALI-2 · 0–10 V · PWM · NFC · 224 lm/W · CREE 304 retrofit · 5-year warranty

OTHER VERSIONS

	Manta HT	Ambient to +120 °C, 120° very wide only	Separate datasheet
	Surface Extended	The retrofit panel for existing CREE 304 positions	Article code to be issued

WHERE IT EARNS ITS PLACE

Under the roof. A canopy runs its lighting almost every hour of the year and replacing a panel means closing the lane.

The full technical datasheet for this luminaire, with the photometry, the complete specification, the mechanics and the ordering information, is available on the product page and in the collected datasheets.

UP TO +120 °C

The high temperature programme

Six families from this document are also built for hot environments. The optics, the glass and the cable change, and the driver moves out of the hot zone. Everything else, the housing, the mounting and the corrosion class, stays the same as the version on the product page.

WHAT CHANGES IN AN HT BUILD

The driver leaves the luminaire. It goes in a remote or external box outside the hot zone, rated to +50 °C ambient. That is the single reason a standard luminaire fails at high temperature: the electrolytics in the driver, not the LED.

Glass optics instead of polymer. On the Orca HT, Barracuda HT and Linear HT the beam is set with glass: 20°, 40° and 60°. On the Snapper HT, Goby HT and Manta HT there is no lens at all, only the 120° very wide distribution.

A silicone cable, and a stated length. The cable between the luminaire and the driver box is part of the specification, from 5 metres on the Manta HT to 150 metres on the Orca HT and the Barracuda HT.

The output is lower than the standard version, on purpose. An Orca HT gives 65,000 lumens where the standard Orca gives 111,300. Driving the LED softer is what buys the temperature headroom.

LED SERVICE LIFE, TM-21 L90B05

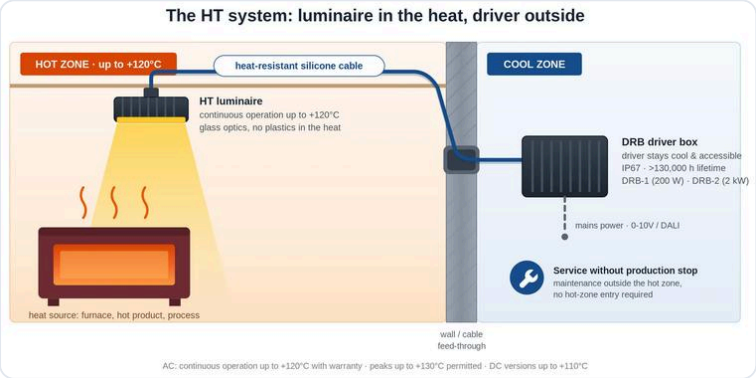
at +50 °C	> 360,000 h
at +85 °C	103,000 h
at +105 °C	71,700 h
at +120 °C	51,400 h

At ten burning hours a day, the +120 °C figure is still more than fourteen years. We write the ladder out rather than quote one number, because the ambient is what decides it.

WHERE IT IS USED

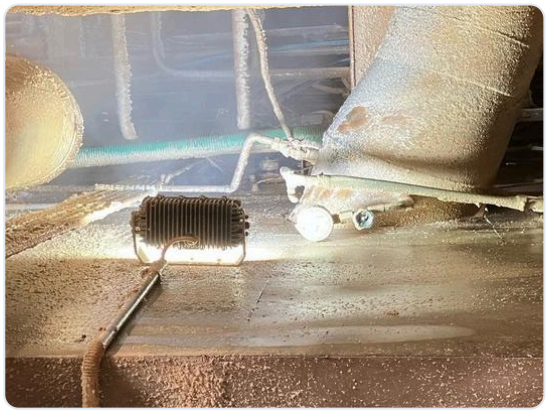
- Steel plant casting floors and rolling mills
- Furnace and kiln fronts
- Glass production and annealing lehrs
- Ovens, drying tunnels and paint lines
- Chemical process plant and reactor halls
- Hot ceilings, hoods and canopies

THE HT SYSTEM



In the hot zone	The luminaire, rated to +120 °C continuous
Outside the hot zone	The driver, bare or in a DRB box, rated to +50 °C
Between them	Heat resistant silicone cable, length stated per family
Why	Above roughly +50 °C ambient the driver electronics fail first, so the driver is moved out

IN SERVICE



The luminaires hang in the heat; the driver boxes sit outside it.

The six HT versions

Values are the maximum for each family at the HT build. Each one has its own datasheet with the full specification, the temperature ladder and the driver box drawing; scan the code on the card.



Orca HT

20°, 40°, 60° glass optics or none · cable 150 m

Luminous flux	65,000 lm
Power	320 W
Efficacy	203 lm/W
Driver	Remote 800 W

Scan for the Orca HT datasheet



Linear HT

20°, 40°, 60° and 120° · +120 °C on AC, +110 °C on DC

Luminous flux	25,600 lm
Power	120 W
Efficacy	213 lm/W
Driver	External BLD120

Scan for the Linear HT datasheet



Barracuda HT

20°, 40°, 60° glass optics or none · cable 150 m

Luminous flux	20,600 lm
Power	120 W
Efficacy	172 lm/W
Driver	Remote BLD320

Scan for the Barracuda HT datasheet



Manta HT

120° very wide only · cable 2 m

Luminous flux	7,500 lm
Power	50 W
Efficacy	150 lm/W
Driver	Remote BLD120

Scan for the Manta HT datasheet



Snapper HT

120° very wide only · +120 °C on AC, +110 °C on DC

Luminous flux	7,000 lm
Power	35 W
Efficacy	200 lm/W
Driver	Remote BLD075

Scan for the Snapper HT datasheet



Goby HT

120° very wide only · cable 15 m

Luminous flux	2,600 lm
Power	13 W
Efficacy	200 lm/W
Driver	Remote BLD075

Scan for the Goby HT datasheet

The Snapper HT and the Linear HT reach +120 °C on mains and +110 °C on 24 V DC. A 316L high temperature build of the Snapper, and a chemically resistant HT-CHEM build, are available on request. There is no HT version of the Shark, the Marlin, the Piranha, the Goby Mini, the Snapper HC or the DarkLicht family; for those cases choose the Barracuda HT or the Snapper HT.

SOLID 316L STAINLESS STEEL

The 316L programme

Four families from this document are also built in solid 316L instead of cast aluminium. Not a stainless bracket on an aluminium housing, and not a coating: the housing itself is 316L, with twenty years of warranty on it.

WHEN A COATING IS NOT ENOUGH

The standard already goes a long way. Every aluminium housing in this document is cast with less than 0.08 % copper under a titanium based e-coating, corrosion class C5 to ISO 9223. For quays, yards, shipyards and most marine work that is the right answer, and it is lighter and cheaper.

316L is for the cases past C5. Standing salt spray, washdown with chemicals, food and beverage plant, chlorine, offshore splash zones and environments classed CX. There the question stops being whether the coating holds and becomes what happens when it is damaged; solid 316L has no coating to lose.

It costs weight. An Orca SS is 36.3 kg against 22.7 for the cast version. That changes the bracket, the mast calculation and the lift on site, so it is a choice to make with the structure in mind, not afterwards.

Twenty years on the housing. Five years on the complete luminaire, as everywhere in the range, and twenty on the 316L housing itself.

WHERE IT IS USED

- Offshore platforms and splash zones
- Food and beverage production, washdown
- Chemical and chlorine environments
- Fish processing and cold stores
- Dredgers and working vessels
- Quay cranes in standing salt spray

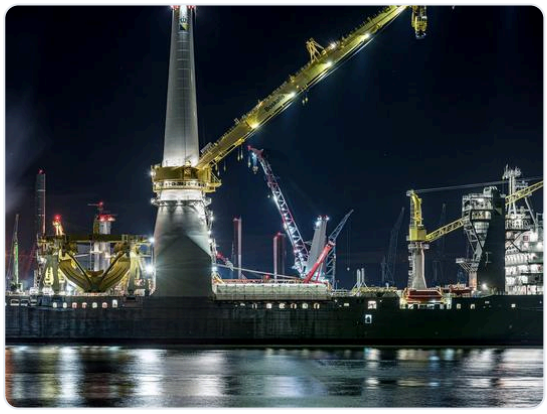
NOT AVAILABLE IN 316L

Shark, Marlin, Snapper HC, Goby, Goby Mini and the DarkLicht family are aluminium only. For a 316L floodlight at that output choose the Barracuda SS or the Snapper SS; for a 316L work lamp choose the Piranha SS. A 316L high temperature build is available on request.

COATED ALUMINIUM OR SOLID 316L

	Cast aluminium, e-coated	Solid 316L
Housing	Cast, less than 0.08 % copper	Solid 316L stainless steel
Protection	Titanium based e-coating	None needed, the metal is the protection
Corrosion class	C5 to ISO 9223	C5 and CX
Housing warranty	Five years, as the luminaire	Twenty years
Weight, Orca as example	22.7 kg	36.3 kg
Available on	Every family in this document	Orca, Barracuda, Snapper and Piranha

IN SERVICE



Where the coating would be the weak point, the housing itself is the corrosion barrier.

The four 316L versions

Dimensions and mounting differ from the cast version on several of these; the datasheet per version carries the drawing and the bolt pattern. Scan the code on the card.

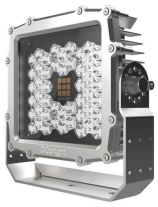


Orca SS

Twenty years of warranty on the housing · terminals and offshore

Luminous flux	111,300 lm
Power	800 W
Weight	36.3 kg
Impact	IK10
Supply	AC · 48 V DC

Scan for the Orca SS datasheet



Barracuda SS

Twenty years of warranty on the housing · decks and process plant

Luminous flux	44,100 lm
Power	320 W
Weight	16.0 kg
Impact	IK10
Supply	AC · 24 V DC

Scan for the Barracuda SS datasheet



Snapper SS

Twenty years of warranty on the housing · retrofit and light masts

Luminous flux	26,000 lm
Power	180 W
Weight	7.0 kg
Impact	IK08
Supply	AC · 24 V DC

Scan for the Snapper SS datasheet



Piranha SS

Twenty years of warranty on the housing · machines and cranes

Luminous flux	8,400 lm
Power	70 W
Weight	5.0 kg
Impact	IK09
Supply	AC · 12 and 24 V DC

Scan for the Piranha SS datasheet

Weights are for the luminaire including its 316L bracket. The impact class differs per family because the front differs: chemically toughened glass or diffuse borosilicate on the Piranha SS, polymer on the others.

Where to go next

Every family in this document has a full technical datasheet. They are collected in five documents, each with its own selection table.

Collected datasheets	Pages	What is in it
LED Floodlights	34	Orca, Shark, Barracuda, Snapper HC, Snapper and Marlin
LED Work Lamps	28	Piranha, Piranha SS, Goby, Goby HT, Goby Mini, DarkLicht S and Mini
316L Stainless Steel	24	Orca SS, Barracuda SS, Snapper SS and Piranha SS, with a page on when to specify 316L
High Temperature	35	Orca HT, Barracuda HT, Snapper HT, Goby HT, Linear HT and Manta HT, with the HT principle and the temperature ladder
DarkLicht	44	The whole cut off line, with the DarkLicht principle and the wind load data

BEFORE YOU ORDER

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

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

Five years warranty, and twenty years on a 316L housing.

Masts, engineering, installation and maintenance from one supplier.

ALSO AVAILABLE AS SEPARATE DATASHEETS

Crane Light Director · Crane Light Stabilizer · High masts to 50 m · DRB driver boxes and brackets are covered inside each product datasheet.

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