

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

18

VERSIONS

84

OUTPUT RANGE

2,300 to  
307,800 lm

AMBIENT

-45 to  
+120 °C



Floodlights

Work lamps

DarkLight full cut off

Linear

Canopy

Crane systems

High masts

# Contents

Eighteen product families, one page each, in five groups.

|   |                              |                                                                   |
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| 2 | <b>The range in one page</b> | Five groups, eighteen families, and what runs through all of them |
| 3 | <b>Five sectors</b>          | What we design for, and which families answer it                  |

## FLOODLIGHTS

|   |                   |                 |
|---|-------------------|-----------------|
| 4 | <b>Orca</b>       | 111,300 lm      |
| 5 | <b>Shark</b>      | 50,000 lm       |
| 6 | <b>Barracuda</b>  | 44,100 lm       |
| 7 | <b>Snapper HC</b> | up to 83,000 lm |
| 8 | <b>Snapper</b>    | 31,000 lm       |
| 9 | <b>Marlin</b>     | 18,000 lm       |

## WORK LAMPS

|    |                  |                |
|----|------------------|----------------|
| 10 | <b>Piranha</b>   | 8,400 lm       |
| 11 | <b>Goby</b>      | up to 8,200 lm |
| 12 | <b>Goby Mini</b> | 2,300 lm       |

## DARKLIGHT, FULL CUT OFF

|    |                           |                  |
|----|---------------------------|------------------|
| 13 | <b>DarkLight Mini</b>     | 4,800 lm         |
| 14 | <b>DarkLight S</b>        | 12,825 lm        |
| 15 | <b>DarkLight M</b>        | up to 51,300 lm  |
| 16 | <b>DarkLight D</b>        | up to 34,200 lm  |
| 17 | <b>DarkLight WP</b>       | up to 16,000 lm  |
| 18 | <b>One, Two and Three</b> | up to 307,800 lm |

## LINEAR AND CANOPY

|    |                     |                 |
|----|---------------------|-----------------|
| 19 | <b>Linear</b>       | up to 25,600 lm |
| 20 | <b>Manta canopy</b> | 22,400 lm       |

## WHERE TO GO NEXT

|    |                             |                                                                |
|----|-----------------------------|----------------------------------------------------------------|
| 21 | <b>Collected datasheets</b> | Floodlights · Work Lamps · 316L · High Temperature · DarkLight |
|----|-----------------------------|----------------------------------------------------------------|

### 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                                                       |
|--------------------------------|----------------------------------------------------------|----------------------|------------------------------------------------------------------|
| <b>Floodlights</b>             | Orca · Shark · Barracuda · Snapper HC · Snapper · Marlin | 18,000 to 111,300 lm | Masts, booms, quays and yards. Output and mechanical robustness  |
| <b>Work lamps</b>              | Piranha · Goby · Goby Mini                               | 2,300 to 8,400 lm    | Machines and vehicles on 9 to 32 V DC, with the drivers on board |
| <b>DarkLight, full cut off</b> | Mini · S · M · D · WP · One, Two and Three               | 4,800 to 307,800 lm  | Sites with an obtrusive light condition. 0 % upward light        |
| <b>Linear</b>                  | Linear · Linear HT                                       | 3,900 to 25,600 lm   | Aisles, process lines and washdown areas. 213 lm/W               |
| <b>Canopy</b>                  | Manta                                                    | 14,400 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                                                                                   |
|----------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Ports and terminals</b>             | 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       |
| <b>Offshore and maritime</b>           | 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          |
| <b>Heavy industry and heat</b>         | 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 |
| <b>Construction and infrastructure</b> | 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        |
| <b>Mobile machines</b>                 | 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, including marine       | EN 55015, EN 61547 and IEC 60533 for bridge and open deck, by TÜV |
| 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        |
|-------------------|--------------|-----------------|
| <b>111,300</b> lm | <b>800</b> W | <b>139</b> 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         |

### 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        |
|------------------|--------------|-----------------|
| <b>50,000</b> lm | <b>320</b> W | <b>156</b> 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

|                      | <b>Shark AC</b>      | <b>DC 24 V</b> | <b>DC 48 V</b> |
|----------------------|----------------------|----------------|----------------|
| Article base code    | SHAC01               | SHDC01         | SHDC01         |
| Luminous flux        | 50,000 lm            | 46,000 lm      | 46,000 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        |
|------------------|--------------|-----------------|
| <b>44,100</b> lm | <b>320</b> W | <b>138</b> 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        |
|------------------|----------------|-----------------|
| <b>83,000</b> lm | <b>12.6</b> kg | <b>166</b> 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                  |
|-----------------------|-----------------------|-----------------------|---------------------|
| Luminous flux AC      | 31,000 lm             | 55,000 lm             | 83,000 lm           |
| Power AC              | 180 W                 | 320 or<br>270 W       | 500 or<br>400 W     |
| Luminous flux DC 24 V | 25,000 lm             | 44,100 lm             | 66,200 lm           |
| Dimensions            | 312 ×<br>181 ×<br>118 | 320 ×<br>314 ×<br>205 | 320 × 484<br>× 205  |
| Weight incl. bracket  | 3.1 kg                | 9.9 kg                | 12.6 kg             |
| Driver                | BLD240                | BLD320                | TLD400 or<br>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 standard |          |             |                   |                      |        |                             |

### 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.

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.

## 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        |
|------------------|--------------|-----------------|
| <b>31,000</b> lm | <b>180</b> W | <b>173</b> 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        |
|------------------|--------------|-----------------|
| <b>18,000</b> lm | <b>120</b> W | <b>150</b> 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        |
|-----------------|-------------|---------------|
| <b>8,400</b> lm | <b>70</b> W | <b>3.1</b> 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

|        | <b>Piranha 9 AC</b>  | <b>Piranha 9 DC</b> | <b>Piranha 6 DC</b>  |
|--------|----------------------|---------------------|----------------------|
| 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 <a href="#">ISO 9223</a> | 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        |
|-----------------|-------------|---------------|
| <b>8,200</b> lm | <b>65</b> W | <b>1.8</b> 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   | GODC04   |
| 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        |
|-----------------|-------------|---------------|
| <b>2,300</b> lm | <b>18</b> W | <b>1.1</b> 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 | GODC02                        |
| 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              |

|                      |       |                 |          |             |                   |          |             |                          |               |
|----------------------|-------|-----------------|----------|-------------|-------------------|----------|-------------|--------------------------|---------------|
| 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

# DarkLight Mini



4,800 lumens with no glare at all. The DarkLight 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        |
|-----------------|-------------|-----------------|
| <b>4,800</b> lm | <b>30</b> W | <b>160</b> 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

| DarkLight 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        | 170 × 120 × 70 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 DarkLight 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

# DarkLight 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        |
|------------------|-------------|-----------------|
| <b>12,825</b> lm | <b>75</b> W | <b>171</b> 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

|                   | DarkLight S75      | DarkLight 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 DarkLight M for a mains installation

Fixed mast installation

More output with the same cut off

See the DarkLight 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

# DarkLight 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        |
|------------------|--------------|-----------------|
| <b>51,300</b> lm | <b>300</b> W | <b>171</b> 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

|                   | <b>M300</b>                | <b>M150</b>                |
|-------------------|----------------------------|----------------------------|
| Article base code | DRKM04                     | DRKM03                     |
| 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<br>20–32 VDC | 90–305 VAC or<br>20–32 VDC |
| Dimensions        | 370 × 230 ×<br>150 mm      | 250 × 230 ×<br>140 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 DarkLight 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        |
|------------------|--------------|-----------------|
| <b>34,200</b> lm | <b>200</b> W | <b>171</b> 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<br>BLD200    | Internal<br>BLD120    | Internal<br>BLD120    |
| Dimensions | 540 ×<br>270 ×<br>110 | 440 ×<br>270 ×<br>110 | 440 ×<br>270 ×<br>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

# DarkLight WP



The wall pack is where obtrusive light usually starts. The DarkLight 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        |
|------------------|-----------------|-----------------|
| <b>16,000</b> lm | <b>10–100</b> W | <b>160</b> 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              |
|---------------|---------------------------|--------------------------|
| 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    | 340 × 180 × 100 mm        | 340 × 180 × 100 mm       |

|              |       |                   |          |             |                   |            |                 |                       |          |
|--------------|-------|-------------------|----------|-------------|-------------------|------------|-----------------|-----------------------|----------|
| CE           | IP69K | IK08              | Class II | 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

# DarkLight 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        |
|-------------------|----------------|-----------------|
| <b>307,800</b> lm | <b>1,800</b> W | <b>171</b> 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

|                  |                                                           |                                |
|------------------|-----------------------------------------------------------|--------------------------------|
| DarkLight One    | 51,200 to 102,600 lm, driver internal to 400 W            | Separate datasheet             |
| DarkLight Two    | 136,800 and 205,200 lm, external driver                   | Separate datasheet             |
| DarkLight 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        |
|------------------|--------------|-----------------|
| <b>25,600</b> lm | <b>120</b> W | <b>213</b> 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  | 2.8 kg   | 4.4 kg    | 6.0 kg    | 7.6 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        |
|------------------|--------------|-----------------|
| <b>22,400</b> lm | <b>100</b> W | <b>224</b> 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    | Not yet issued   |
| Flux        | 22,400 lm | 22,400 lm | 22,400 lm        |
| With optics | 20,600 lm | 20,600 lm | 20,600 lm        |
| Depth       | 20 mm     | 95 mm     | 185 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.

## 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                                                                                                        |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------|
| <b>LED Floodlights</b>      | 38    | Orca, Shark, Barracuda, Snapper HC, Snapper and Marlin                                                               |
| <b>LED Work Lamps</b>       | 45    | Piranha, Piranha SS, Goby, Goby HT, Goby Mini, DarkLicht S and Mini                                                  |
| <b>316L Stainless Steel</b> | 27    | Orca SS, Barracuda SS, Snapper SS and Piranha SS, with a page on when to specify 316L                                |
| <b>High Temperature</b>     | 40    | Orca HT, Barracuda HT, Snapper HT, Goby HT, Linear HT and Manta HT, with the HT principle and the temperature ladder |
| <b>DarkLicht</b>            | 40    | 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. |
|---------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------|

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IES files, test reports and revision history are on the product pages.

### 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.