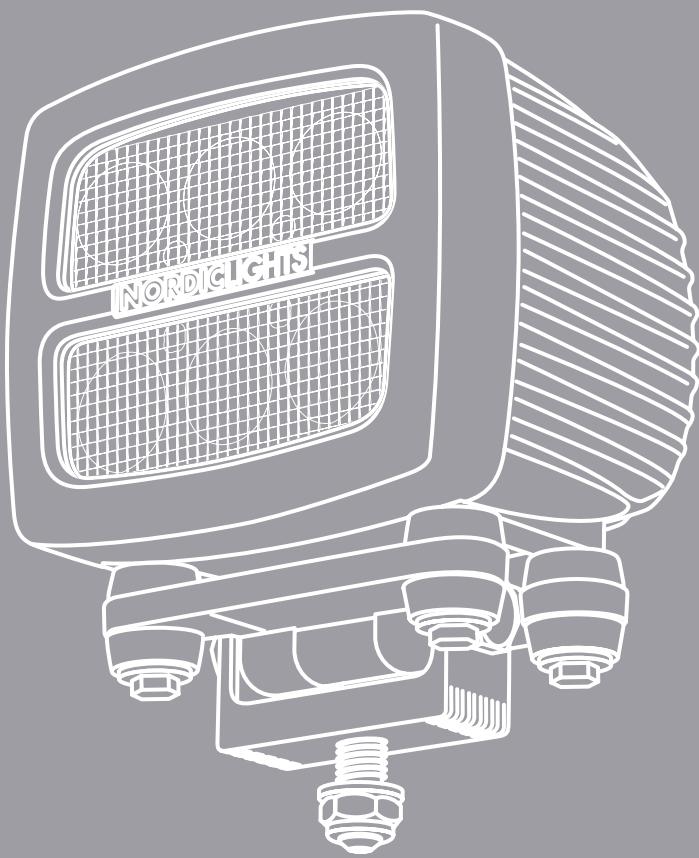




Vehicle Safety Solutions



NORDICLIGHTS

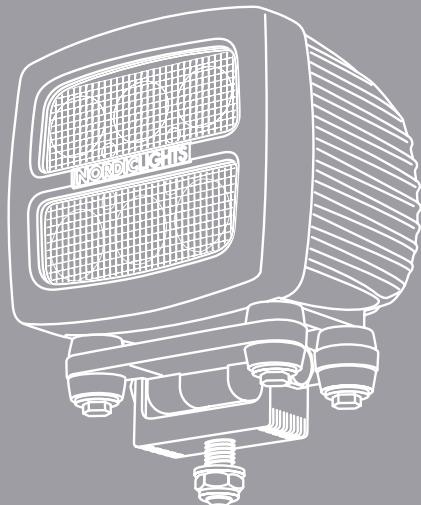
Heavy Duty Work Lights



Heavy Duty Worklights

NORDIC LIGHTS® is a leading global designer, manufacturer and supplier of Heavy Duty LED & Halogen lighting solutions, with a focus on providing durable products for use in difficult and demanding working environments all over the world. The visibility offered by the high quality optics of the lights supports machines in maintaining high working efficiency during dark working hours while the lights themselves need very little maintenance.

Suitable for machines and vehicles within the mining, construction, forestry, material handling and trailer & emergency industries, the use of NORDIC LIGHTS® products ensures that darkness, vibration, shock, dust and humidity will not affect visibility when the results of work and safety depend on effective lighting.



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Light Source Comparison

Which light do you need?

To assist in the selection of devices to suit your lighting needs, the table below compares the key features of Halogen and LED light sources.

Suitable for a variety of application Nordic Lights LED range is a recommended investment, providing long lasting, energy efficient and maintenance free lighting solutions.

	Halogen	LED
Light Emission Method	Incandescence	Electroluminescence
Performance (full light output)	Instant ON	Instant ON
Colour Temperature (typical)	3200K	5500-6000K
Light Colour Appearance	Warm (yellow)	Cool ("Daylight")
Light Intensity		
Lifetime (typical)	500 hours	50,000 hours
Power Consumption (comparable work lamps)		
Energy Efficiency: Complete System (lamp)		
Energy Cost Over Lifetime		
Durability		
Shock Resistance		
Ability to Withstand Temperature Extremes		
Lamp Lens Surface Temperature		
Lumen Depreciation		
Produces UV Radiation	Yes	No
Maintenance Free	No	Yes
Nordic Lights Lamp Warranty*	1 year	5 years

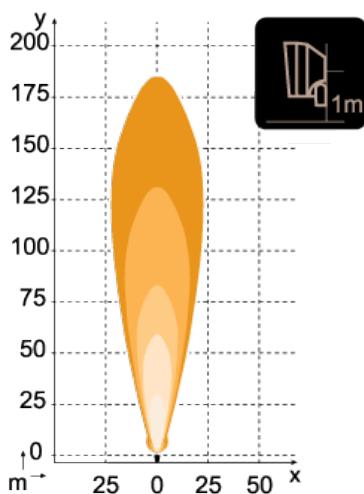
* Warranty excludes environmental & physical damage. Halogen & HID lamp warranty excludes bulbs.
LED warranty covers light output based on L70.

Typical Light Patterns

Nordic Lights® work lights are available in different light patterns to match your specific lighting requirements. Generally, the light patterns can be classified as follows: High Beam, Low Beam, Wide Flood and Flood.

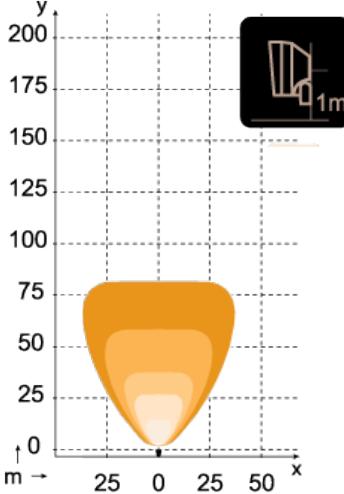
High Beam

Mounted at a 1m height



Low Beam

Mounted at a 1m height



High Beam

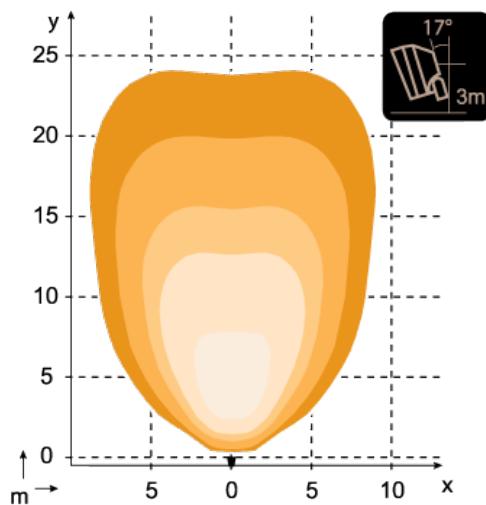
A High Beam light pattern is quite narrow, focusing straight ahead, producing a long-distance range of light.

Low Beam

A Low Beam light pattern is notably wider, still focusing straight ahead, producing a short-distance range of light.

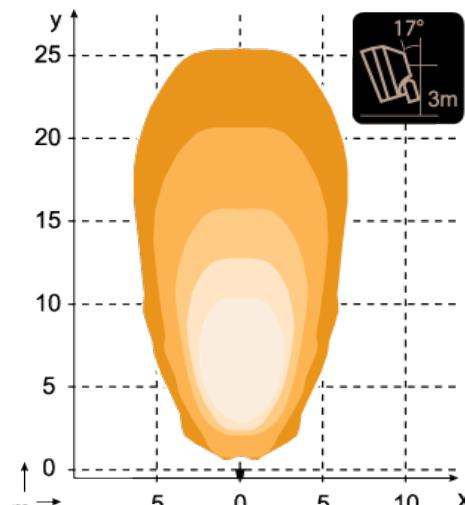
Wide Flood

Mounted at a 3m height and 17° angle



Flood

Mounted at a 3m height and 17° angle



Wide Flood

A Wide Flood light pattern has a very wide spread of the light for lighting up the whole area close to the application.

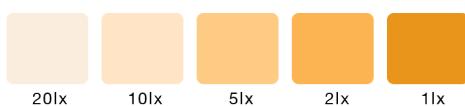
Flood

A Flood light pattern has a wide spread of light for work close to the application.

Key

lx = Lux

The lux is the unit of illuminance and luminous emittance, measuring luminous flux per unit area. It is equal to one lumen per square meter.



Nordic Lights® offer a comprehensive range of highly efficient LED's (light emitting diode), suitable for application on a varied range of vehicles.

Illuminated by the movement of electrons in a semiconductor material, LED lights do not have a filament that will burn out, giving them an enormous lifespan of up to 50,000 work hours – far longer than any other type of bulb. Perfectly suited for Nordic Lights® Heavy Duty work lights, the diodes are highly resistant to shock and vibration. They are also maintenance-free with very low power consumption.

Due to the small size of the diodes LED light is directed more efficiently. High Power LEDs give off a cool blue-white colour, to mimic daylight working conditions and maximize light output.

Vehicle/Application Matrix

Vehicle	K1 100/12 LED Flood	Spica LED N2401 Flood/WideFlood	Spica LED N2401 HiBeam	Scorpius LED N402 Flood/WideFlood	Scorpius LED N404 Flood/WideFlood	Scorpius LED N406 Flood/WideFlood	Scorpius LED N410 Flood/WideFlood	Centaurus LED N601 QD Flood	Taurus LED N7201	Pictor LED N7301 Flood US	Pictor LED N7301 Flood DS
Loader				■	■	■	■				
Excavator			■	■	■	■		■	■	■	
Dozer			■	■	■	■		■			
Dumper				■	■	■	■				
Forklift Truck		■	■								
Snow Plough				■	■	■					
Forestry Vehicles				■	■	■			■	■	■
Motorway Maintenance Vehicles	■	■						■			
Emergency Service Vehicles	■	■					■	■	■	■	■
Dock/Container Handling Vehicles				■			■				
Vans	■	■							■	■	■
Commercial Vehicles (Truck & Trailer)	■	■			■	■	■				

Notes:

- a) A larger vehicle will often require lamps with higher lumen output.
- b) Taurus LED N7201 is often mounted inside the vehicle (e.g. for engine room illumination, or inside the rear of a maintenance or service vehicle).

Lighting requirements for different applications can, and do, vary dramatically. The purpose of the table is to indicate the lamps most often chosen for a particular application.

Depending on the real life application requirements, other ranges may be more suitable. If in doubt, please contact us.

Centaurus LED N4601 QD

7200lm, Quake Dampening



Flood

986-102B

The Centaurus LED N4601 QD is equipped with the new quake dampening system, providing extra protection against vibration and shock. The work lamp meets the expectations of the most demanding situations.

- 24 Volts
- IP68
- Size (WxHxD)
138x124x131mm
- 5 year warranty

Features

Lumens Output: 7200 lm
Power Consumption: 85W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration: 15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Scorpius LED N4402

4200lm



Flood
Wide Flood

984-151
984-145

The Scorpius LED N4402 work lamp offers long lifetime and high operational safety with minimum maintenance. Suitable for harsh conditions and a range of applications.

- 12-24 Volts
- IP68
- Size (WxHxD)
108x137x87mm
- 5 year warranty

Features

Lumens Output: 4200 lm
Power Consumption: 50W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration: 15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Scorpius LED N4404

3000lm



Flood
Wide Flood

984-306
984-302

The Scorpius LED N4404 work lamp offers long lifetime and high operational safety with minimum maintenance. Suitable for harsh conditions and a range of applications.

- 12-24 Volts
- IP68
- Size (WxHxD)
108x137x87mm
- 5 year warranty

Features

Lumens Output: 3000 lm
Power Consumption: 45W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration: 15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Scorpius LED N4406

2100lm



Flood
Wide Flood

984-076
984-072

The Scorpius LED N4406 work lamp offers long lifetime and high operational safety with minimum maintenance. Suitable for harsh conditions and a range of applications.

- 12-24 Volts
- IP68
- Size (WxHxD)
108x137x87mm
- 5 year warranty

Features

Lumens Output: 2100 lm
Power Consumption: 35W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration: 15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Scorpius LED N4410



2000lm, Dimmable

Flood

Wide Flood

984-606
984-605

The Scorpius LED N4410 work lamp offers long lifetime and high operational safety with minimum maintenance. Suitable for harsh conditions and a range of applications, the N4410 is dimmable.

- 12-24 Volts
- IP68
- Size (WxHxD)
108x137x87mm
- 5 year warranty

Features

Lumens Output: 2000 lm
Power Consumption: 40W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration:15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Spica LED N2401



750lm, Dimmable

Flood

Wide Flood

Hi-Beam

981-302B
981-301B
981-303B

The Spica LED N2401 work lamp offers a durable compact lighting solution featuring dimmable function. The light offers long lifetime and high operational safety with minimum maintenance.

- 12-24 Volts
- IP68
- Size (WxHxD)
100x122x76mm
- 5 year warranty

Features

Lumens Output: 750 lm
Power Consumption: 24W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration:8Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Pictor LED N7301



2600lm

TD US - Upside - Flood

TT DS - Downside - Flood

987-101B
987-102B

The Nordic Pictor LED N7301 work light is a low LED work lamp for surface mount on the application body. The work lamp offers a good lighting solution especially when mounted on booms.

- 12-24 Volts
- IP68
- Size (WxHxD)
188x55x149mm
- 5 year warranty

Features

Lumens Output: 2600 lm
Power Consumption: 32W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration:15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

Taurus LED N7201



1950lm, Dimmable

Super Flood

987-004B

The Taurus N7201 work light is ideal for illuminating short distances in any environment and is especially suited for use in machine rooms or on the body of applications.

- 12-24 Volts
- IP68
- Size (WxHxD)
232x129x73mm
- 5 year warranty

Features

Lumens Output: 1950 lm
Power Consumption: 30W
Connector: Built in Deutsch 2-pin
Shock: 60 G
Vibration: 15.3Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

The above is a selection of our best selling Nordic lights.

Many of the lights are available in alternative beam patterns with different connectors and lenses.

+

KL1001 LED

1000lm, Dimmable



Flood

982-105B

The Nordic KL1001 LED work lamp is an affordable upgrade from halogen work lights, matching the introductory level needs for heavy duty lighting.

- 12-24 Volts
- IP68
- Size (WxHxD)
95x91x69mm
- 5 year warranty

Features

Lumens Output: 1000 lm
Power Consumption: 24W
Connector: Fly Leads
Shock: 60 G
Vibration: 8Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

KL1002 LED

1500lm, Dimmable



Flood

982-213B

The Nordic KL1002 LED work lamp is an affordable upgrade from halogen work lights, matching the introductory level needs for heavy duty lighting.

- 12-24 Volts
- IP68
- Size (WxHxD)
95x131x69mm
- 5 year warranty

Features

Lumens Output: 1500 lm
Power Consumption: 24W
Connector: Fly Leads
Shock: 60 G
Vibration: 8Grms 24-2000Hz
Operating temperature:- 40°C to + 85°C

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Many of the lights are available in alternative beam patterns with different connectors and lenses.

Halogen

The Nordic Lights® Halogen work lights use only high quality Heavy Duty bulbs supplied by one of the world's leading manufacturers. HALOGEN or an incandescent (heat-driven) light works by passing an electric current through a tungsten filament to make it glow, giving a standard halogen bulb a lifetime of approximately 500 hours.

Halogen technology offers a considerably more affordable solution for your lighting needs. Nordic Lights® optics and patented dampening solutions ensure a durable, easily serviceable light.

N300 Halogen D TP



2800lm, Dampening, Twin Power

Wide Flood - NO BULB

Wide Flood Handle - NO BULB

930-001B

930-100B

The N300 Halogen D TP is designed to withstand extreme conditions featuring Heavy Duty Anti-Vibration Dampening. The work light has a Twin-Power configuration offering a wide light pattern cut to prevent stray upward light.

• Bulb Required: H3

- IP67
- Size (WxHxD) 140x202x105mm
- 1 year warranty

Features

Lumens Output: 2800 lm
Connector: Built in AMP
Shock: 60G
Vibration: 8.57Grms 18-600Hz
Operating temperature:- 40°C to + 85°C

N200 Halogen D



1400lm, Dampening

Wide Flood - NO BULB

Lo-Beam - NO BULB

902-037B

902-266B

The N200 Halogen D work lamp is a robust work light equipped with Heavy Duty Anti-Vibration Dampening. The work light is designed to surpass OEM standards for vibration, moisture and dust. Proven reliability from arctic to equator.

• Bulb Required: H3

- IP67
- Size (WxHxD) 140x202x105mm
- 1 year warranty

Features

Lumens Output: 1400 lm
Connector: Built in AMP
Vibration: 8.57Grms 18-600Hz
Operating temperature:- 40°C to + 85°C

N100 Halogen S



1400lm, Side Mount

Right Hand - Flood Light

Left Hand - Flood Light

900-016

900-017

The Nordic N100 Halogen S work lamp offers a wide area of illumination.

The work light is equipped with side mounting bracket.

• Flood light pattern

- 12 Volts
- Size (WxHxD) 188x96x89mm
- 1 year warranty

Features

Lumens Output: 1400 lm
Power Consumption: 55W
Connector: Grommet
Vibration: 8.57Grms 18-600Hz
Operating temperature:- 40°C to + 85°C

N25 Halogen D



1400lm, Dampening

Wide Flood - NO BULB

925-006B

The N25 Halogen D work lamp features a compact and rugged design equipped with Heavy Duty Anti-Vibration Dampening. Ideal for forklifts, mining, earth-moving, agricultural and construction equipment.

• Bulb Required: H3

- IP67
- Size (WxHxD) 100x119x94mm
- 1 year warranty

Features

Lumens Output: 1400 lm
Connector: Built in AMP
Shock: 60G
Vibration: 8.57Grms 18-600Hz
Operating temperature:- 40°C to + 85°C

N520 Halogen Driving Light

Pedestal Mount



Right Hand - High/Low Beam
Left Hand - High/Low Beam

952-001
952-002

The N520 Halogen is an ideal Heavy Duty headlight/indicator solution on a pedestal mount. The light integrates headlight, indicator and park light in one assembly. The N520 Halogen is available in ECE and SAE-approved implementations.

- 24 Volt
- IP54
- Size (WxHxD)
227x170x145mm
- 1 year warranty

Features

Power Consumption: 75/70W
 Connector: Grommet/Deutsch
 Operating temperature:- 40°C to + 85°C

N500 Halogen Driving Light

Rear Mount



Right Hand - High/Low Beam - Built in 6-pin AMP
Left Hand - High/Low Beam - Built in 6-pin AMP
Right Hand - High/Low Beam - Pigtail Deutsch
Left Hand - High/Low Beam - Pigtail Deutsch

950-003
950-013
950-053
950-054

The N500 Halogen is an ideal Heavy Duty headlight/indicator solution on a rear mount. The light integrates headlight, indicator and park light in one assembly. The N500 Halogen is available in ECE and SAE-approved implementations.

- 12 Volt
- IP54
- Size (WxHxD)
230x160x173mm
- 1 year warranty

Features

Power Consumption:60/55W
 Connector: Built in AMP
 Pigtail Deutsch
 Operating temperature:- 40°C to + 85°C

The above is a selection of our best selling Nordic lights.
 Many of the lights are available in alternative beam patterns with different connectors and lenses.

To order or for more information on
Brigade's vehicle safety solutions;
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