JEL PRODUCTS
SUSTAINABLE | LIGHTING | SOLUTIONS

COLLECTED TECHNICAL DATASHEETS

Linear

Four lengths in a cast aluminium housing rated IP69K, in AC and in 24 V DC, and the same four lengths again as a high temperature build to +120 °C.

DATASHEETS	OUTPUT RANGE	POWER	TYPE
2	6,400 to 25,600 lm	30 to 120 W	Industrial linear LED luminaire



Linear | Linear HT

Contents

Every datasheet in this document has the same five sections: what it is and where it is used, the light output and the optics, the full specification, the mechanics and the driver, and the ordering information. The page numbers run through the whole document.

THE DATASHEETS IN THIS DOCUMENT

2	**Linear**	**6,400–25,600 lm luminous flux · 30–120 W power** 213 lumens per watt in a cast aluminium housing rated IP69K and IK09.
7	**Linear HT**	**6,400–25,600 lm luminous flux · 30–120 W power** The Linear at an ambient temperature of +120 °C, in four lengths and with HT optics of 20, 40 and 60 degrees.

HOW TO READ THIS DOCUMENT

This is the complete set for one product. Every version has its own datasheet with the same five sections, so a specification can be compared line by line between the versions without opening a second document.

The photometry is measured per optic and the IES files are on the product page. Where a figure depends on the build, the specification states the condition next to it rather than in a footnote.

WHAT IS NOT IN THIS DOCUMENT

316L version	Not available on this housing
Canopy positions	The Manta, for a recessed or surface mounted panel

INDUSTRIAL LINEAR LED LUMINAIRE

Linear



LIN30
300 mm
6,400 lm · 30 W



LIN60
600 mm
12,800 lm · 60 W



LIN90
900 mm
19,200 lm · 90 W



LIN120
1,200 mm
25,600 lm · 120 W

All four lengths, shown at equal frame size and not to scale. The four share one housing profile, one bracket and one optic set.

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

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
6,400–25,600 lm	30–120 W	213 lm/W

INGRESS	IMPACT	LENGTHS
IP69K	IK09	300–1200 mm

Values apply to the AC version without optics at 6500 K, Ta 25 °C, including driver consumption. The optic versions carry a small loss and are stated separately in the specification.

WHY IT IS SPECIFIED

A cast housing instead of an extrusion with end caps. The caps are where water gets in under a pressure washer and the plastic is where the impact damage starts. Cast aluminium also carries the heat away from the LED, which is why the efficacy is what it is.

213 lm per watt, the highest in the range. In a cold store or a distribution centre the lighting runs most of the year. The difference between 150 and 213 lumens per watt is the whole business case.

Sixteen versions, including high temperature. Four lengths in AC and in 24 V DC, and the same four again as HT to +120 °C. One product covers a wash line, a drying tunnel and a picking aisle.

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
- Vehicle wash and inspection bays
- Pharmaceutical and clean process areas
- Retrofit of fluorescent and tube style battens

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

The number in the type name is the length in centimetres, not the wattage. A high temperature version of all four lengths is covered by the **Linear HT** datasheet.

Light output and optics

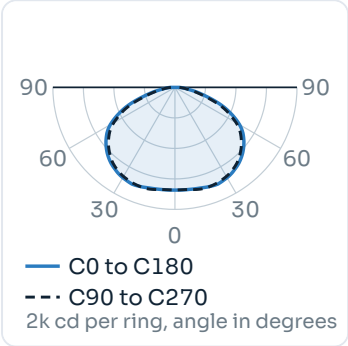
Values apply to the LIN120 at Ta 25 °C, including driver consumption. The Linear is supplied without optics as standard, which is where the 213 lm per watt comes from; the optic versions trade a little output for control.

BEAM CHARACTERISTICS

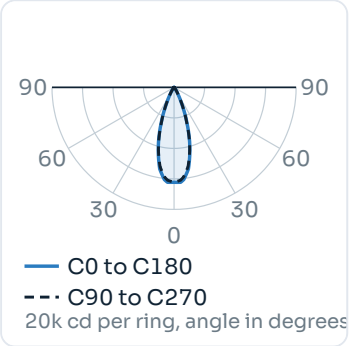
Optic	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
No optic	Very wide, diffuse	136°	168°	The standard build. Aisles, corridors, process lines at low height
30°	Narrow, symmetric	36°	58°	High bay and deep racking, where the run is high above the aisle
60°	Wide, symmetric	71°	97°	The general purpose optic for aisles and conveyor runs
90°	Very wide, symmetric	–	–	Low mounting height over a wide working area
120°	Very wide, symmetric	–	–	Very low mounting height, machine and enclosure interiors

The Linear without optics reaches 213 lumens per watt precisely because there is no optic in front of the LED to take light away. The optic versions are specified where the shape of the space demands control: a high racking aisle wastes a wide distribution on the racking sides. Both are the same housing and the same length.

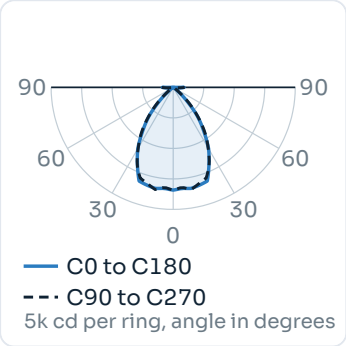
LIGHT DISTRIBUTION



No optic, standard build



30° narrow



60° wide

OBTRUSIVE LIGHT

ULOR at 0° tilt	**0 %**
Linking	Linkable into a continuous run
Amber 2200 K	Available, for light sensitive surroundings

The Linear is normally an indoor luminaire, but the diffuse front and the 0 % upward light output ratio also make it usable under a canopy or on an external walkway without adding to the sky glow of a site. Where the position is outdoors and open, the DarkLicht range is the correct answer.

COLOUR AND CONSISTENCY

Colour temperatures	6500 K, 5000 K, 4000 K, 2700 K, amber 2200 K
Flux at 6500 K	Identical to 4000 K
Bi-colour	4000 K with amber 2200 K, switchable in operation
Colour rendering	Ra > 70 standard, optionally 80 or 90
Colour consistency	MacAdam step 3 or better
LED service life	TM-21 L90B05 > 360,000 h at 50 °C
Linking	Luminaires can be linked into a continuous run
Run length	Depends on the wattage and the cable. Calculated by JEL on request

Full specification

All values apply to the standard configuration at 25 °C ambient, including lens losses and driver consumption. A hyphen means the entry does not apply to that version.

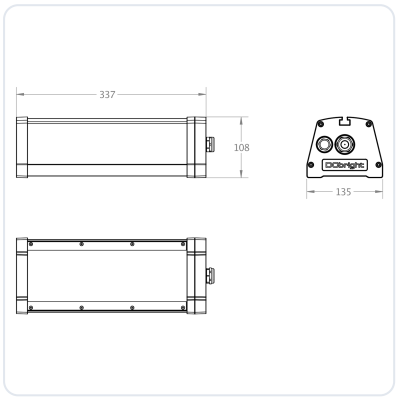
	LIN30	LIN60	LIN90	LIN120
PERFORMANCE				
Luminous flux AC	6,400 lm	12,800 lm	19,200 lm	25,600 lm
Luminous flux DC	5,600 lm	11,200 lm	16,700 lm	22,300 lm
Power consumption	30 W	60 W	90 W	120 W
Efficacy AC	213 lm/W	213 lm/W	213 lm/W	213 lm/W
Efficacy DC	187 lm/W	187 lm/W	186 lm/W	186 lm/W
ELECTRICAL AND DRIVER				
Supply voltage range	90–305 VAC, or 9–32 VDC			
Current draw AC	0.13 to 0.11 A at 220 to 277 V	0.26 to 0.22 A	0.41 to 0.32 A	0.52 to 0.44 A
Current draw DC	1.25 A at 24 V	2.5 A at 24 V	3.75 A at 24 V	5.0 A at 24 V
Driver	AC: internal BLD075	AC: internal BLD075	AC: internal BLD120	AC: internal BLD120
Dimming	0–10 V, PWM, DALI-2, or over NFC on AC. DC on request			
CONSTRUCTION				
Housing	Cast aluminium, less than 0.08 % copper. One piece, no end caps			
Surface finish	Conversion layer plus 2-layer titanium-based e-coating			
Bracket	Aluminium, less than 0.08 % copper, 0° to 45° in seven locked positions			
Front	Diffuse chemically hardened glass, or diffuse borosilicate, IK09			
Protection class	Class II			
Ingress protection	IP66, IP67, IP68 and IP69K, each class tested separately			
Impact resistance	IK09 (IEC 62262)			
Corrosion class	C5 industrial and marine (ISO 9223)			
DURABILITY AND DIMENSIONS				
Ambient temperature	−45 to +50 °C			
LED service life	TM-21 L90B05 > 360,000 h at 50 °C			
Cable and termination	Optional, H07BQ-F			
Linking	Linkable into a continuous run. Luminaires per supply depend on the wattage and the cable and are calculated by JEL on request			
Dimensions	134 × 102 × 350 mm	134 × 102 × 650 mm	134 × 102 × 950 mm	134 × 102 × 1250 mm
Weight	3.45 kg	5.05 kg	6.8 kg	8.4 kg
Warranty	5 years on the complete luminaire			

The luminaires can be linked into a continuous line. How many can be carried on one supply depends on the wattage and the cable, and JEL calculates it for the actual run on request. That calculation is part of the quotation rather than something to work out on site.

Mechanics, mounting and driver

All drawings are to scale and dimensioned in millimetres. DXF and STEP models are available on request. Dimensions shown are for the LIN120. The LIN30, LIN60 and LIN90 are identical in cross section and bracket; only the length changes, to 300, 600 and 900 mm.

HOUSING AND BRACKET



LIN30	134 × 102 × 350 mm, 3.45 kg
LIN60	134 × 102 × 650 mm, 5.05 kg
LIN90	134 × 102 × 950 mm, 6.8 kg
LIN120	134 × 102 × 1250 mm, 8.4 kg
Cross section	134 mm over the bracket, 102 mm high, 125 mm over the base plate. Lengths include the two 30 mm end caps
Bracket	Aluminium, 0° to 45° in seven locked positions
Housing	One cast piece, no end caps to leak

LINKING

Continuous run	Luminaires link into a line
Per supply	Depends on wattage and cable
Calculation	By JEL, on the actual run, at quotation
Why it matters	It decides the cable size and the number of feed points
Cable	Optional H07BQ-F, length on request

MOUNTING AND ACCESSORIES

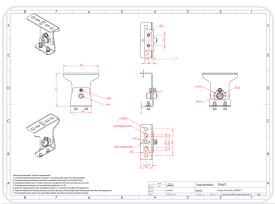
Bracket	Aluminium, supplied as standard, 0° to 45° in seven locked positions
Cable	Optional, H07BQ-F, length on request
Optics	30°, 60°, 90° or 120°, ordered as a suffix
Borosilicate front	Option, diffuse
Linking set	For a continuous run, specified at quotation
High temperature version	Linear HT to +120 °C. Separate datasheet

INTERNAL DRIVER

LIN30 and LIN60	BLD075, inside the housing
LIN90 and LIN120	BLD120, inside the housing
DC versions	Drivers on board
External box	None on the standard versions
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C

Nothing outside the housing. On a process line or in a cold store there is nowhere to put a driver box and nowhere to reach it. The Linear carries its driver inside and is still IP69K.

MOUNTING



Surface	Directly to a ceiling, a machine frame or a rack
Suspended	On wire or rod, bracket 0° to 45° in seven locked positions
Washdown	The bracket and the housing are both rated for the regime
High temperature	Linear HT, with an external driver

Ordering, standards and documents

ORDER CODE

Example **LVAC04-65K**

Linear LIN120, AC, 1,200 mm, 6500 K

LVAC01 … LVAC04	AC, 300, 600, 900 and 1,200 mm, without optics
LVAC05 … LVAC08	AC, same lengths, with optics
LVDC01 … LVDC04	DC, 9–32 VDC, four lengths
LVHT01 … LVHT08	High temperature to +120 °C, see the Linear HT datasheet
65K · 50K · 40K · 27K · 22K	6500 K · 5000 K · 4000 K · 2700 K · amber 2200 K
.30 · .60 · .90 · .120	Optic suffix on the optic versions

The number in the type name is the length in centimetres. Linking, cable length and control protocol are confirmed at quotation.

COMBINATIONS

Optic with any length	Possible
Amber 2200 K with any optic	Possible
Linking with AC	Standard
Borosilicate front	Possible
DC with dimming	On request
High temperature	See the Linear HT

STANDARDS AND VERIFICATION

Subject	Standard	Verification
Luminaire safety	IEC/EN 60598-1, -2-5	In-house test
EMC emission and immunity	EN 55015, EN 61547	Third party test
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68, IP69K	In-house test
Impact and vibration	IEC 62262 IK09 · IEC 60068-2-6 at 6 G	In-house test
Shock and corrosion	IEC 60068-2-27 · ISO 9223 class C5, industrial and marine	In-house test
Photometry	IES LM-79, IES files per optic	In-house test
Substances	RoHS, REACH	Self-declaration

BEFORE YOU ORDER

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

Five years warranty on the complete luminaire.

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

PRODUCT PAGE

IES files and revision history, DXF and STEP on request, and project references.
jelproducts.nl/en/products/linear-industriele-led-verlichting

WHERE IT EARNS ITS PLACE

The Linear earns its place in the aisle and on the line. A distribution centre, a cold store or a food plant runs its lighting for most of the year, the shape of the space is a line rather than a field, and the fitting is washed down, knocked and vibrated as part of normal operation. Matching the luminaire to the shape improves what a person can see; matching the housing to the treatment decides whether it is still there in ten years.

Notes. Values are for the standard configuration; a bi-colour or high-CRI build changes the luminous flux and the quotation states the figure that applies. Luminaires per MCB is the manufacturer figure for ABB S200 at 220 V, a guide for engineering and not a substitute for the installation calculation. North American models on request. The JEL range is not ATEX or Ex certified.

HIGH TEMPERATURE LINEAR LED LUMINAIRE

Linear HT



LIN30 HT
300 mm
6,400 lm · 30 W



LIN60 HT
600 mm
12,800 lm · 60 W



LIN90 HT
900 mm
19,200 lm · 90 W



LIN120 HT
1,200 mm
25,600 lm · 120 W

Shown: Linear LIN120 HT, 1,200 mm, diffuse borosilicate front, remote driver box.

CE · IP69K · IK09 · Class II · Ta −45 … +120 °C · C5 ISO 9223 · 90–305 VAC · 24 VDC · HT optics 20 · 40 · 60° · silicone cable · external driver · diffuse borosilicate front

The Linear at an ambient temperature of +120 °C, in four lengths and with HT optics of 20, 40 and 60 degrees. One of only three luminaires in the range that can carry an optic at high temperature, for drying tunnels, climate chambers and paper machines where the run has to be lit along its length.

LUMINOUS FLUX	POWER	EFFICACY
6,400–25,600 lm	30–120 W	213 lm/W
AMBIENT	**INGRESS**	**HT OPTICS**
+120 °C	IP69K	20–120°

Values apply to the HT-AC version at 6500 K, at the stated ambient temperature, including driver consumption. Bi-colour and amber are not available on the high temperature versions.

WHY IT IS SPECIFIED

One of three types that can carry an HT optic. HT optics of 20, 40 and 60 degrees exist for the Orca, the Barracuda and the Linear only. On the other high temperature luminaires the housing is too small.

The driver leaves the hot zone. Electrolytic capacitors are what fail in heat. The HT versions use an external driver connected with heat resistant silicone cable.

The full AC output at +120 °C. The HT-AC versions deliver the same 6,400 to 25,600 lumens as the standard AC versions. What changes with temperature is the LED service life, not the output.

WHERE IT IS USED

- Drying tunnels and curing ovens
- Paper machine drying sections
- Climate and test chambers
- Paint lines and powder coating booths
- Bakery and food process ovens
- Heat treatment and annealing lines
- Textile and coating lines
- Asphalt and bitumen plant
- Boiler houses and flue gas ducts
- Sterilisation and autoclave rooms
- Foundry and melt shop walkways
- Kiln service galleries

VERSIONS

	LIN30 HT	LIN60 HT	LIN90 HT	LIN120 HT
Length	300 mm	600 mm	900 mm	1,200 mm
Flux HT-AC	6,400 lm	12,800 lm	19,200 lm	25,600 lm
Flux HT-DC	3,900 lm	7,800 lm	11,700 lm	15,600 lm
Power AC	30 W	60 W	90 W	120 W
Power DC	22 W	44 W	66 W	88 W

HT-AC runs to +120 °C and HT-DC to +110 °C, and the warranty follows the operating temperature. Optics of 20°, 40°, 60° and 120° are available; the standard build is 120° very wide.

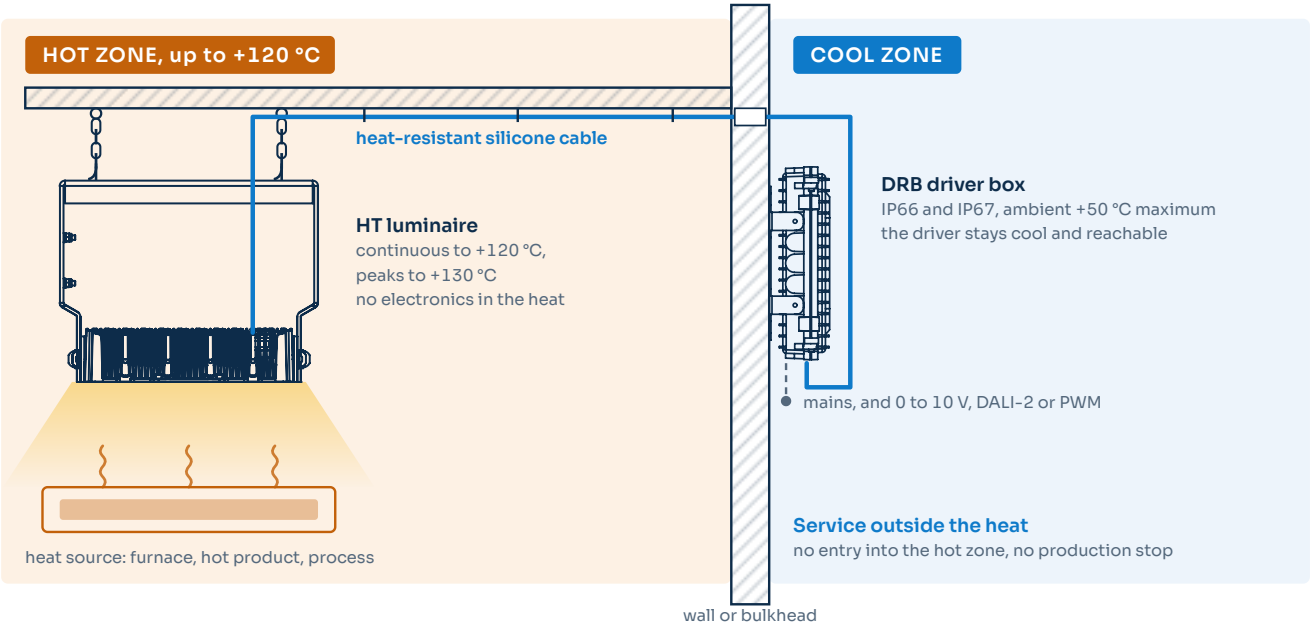
The HT system

Engineered as a system for heat, not as a luminaire that tolerates it.

Standard industrial LED luminaires are specified to roughly +50 °C ambient. Above that the driver electronics fail first: in virtually every failure of LED lighting in a hot environment, the driver is the weak link. Every installation in the HT line therefore consists of two parts. The heat resistant luminaire sits in the hot zone and the driver sits outside it, supplied bare as standard or built into a DRB driver box, joined by heat resistant silicone cable. Nothing that fails at temperature is left in the heat.

+120 °C continuous, with full warranty	**+130 °C** short peaks permitted	**on request** heat-resistant silicone cable	**130,000 h** driver life at Tc 50 °C	**IP67** remote driver and DRB box

THE HIGH TEMPERATURE SYSTEM



The HT system: the luminaire in the heat, the driver outside it.

BUILT-IN SELF-PROTECTION

The luminaire protects itself with internal temperature feedback. As the internal temperature rises it dims back automatically, and on overheating it switches itself off. That feedback runs through the four core supply of every luminaire: two cores for power and two of 0.5 mm² for temperature control. It is the reason the cable specification has four cores rather than two.

Above +130 °C, or unsure about the thermal load? Our engineers calculate the thermal load per mounting position and design the complete system, including the driver location, cable route and DRB selection. Photometric values are measured at a +50 °C reference ambient. HT luminaires are not ATEX certified.

Light output and optics

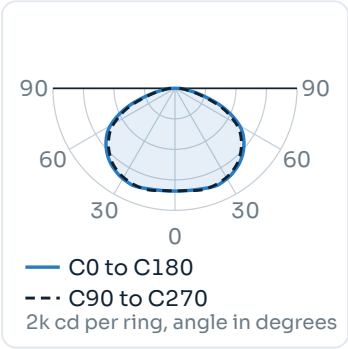
Values apply to the LIN120 HT-AC at Ta 25 °C, including driver consumption. The luminous flux is maintained across the full ambient range; what changes with temperature is the LED service life, stated as a ladder in the colour table.

BEAM CHARACTERISTICS

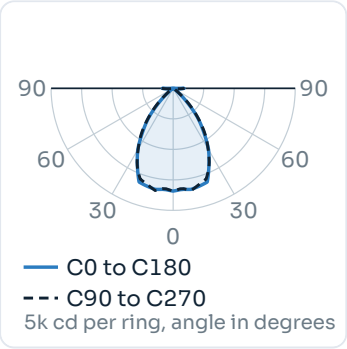
Optic	Distribution	Beam angle 50 % of peak	Field angle 10 % of peak	Typical use
120°, no optic	Very wide, diffuse	136°	168°	The standard build. Tunnels, chambers, ducts at close range
20° HT optic	Narrow, symmetric	–	–	Long throw down a tunnel or a duct from one end
40° HT optic	Medium, symmetric	–	–	Bay and gallery lighting from a hot roof structure
60° HT optic	Wide, symmetric	71°	97°	The general purpose HT optic for a run along a machine

HT optics of 20°, 40° and 60° exist for the Orca, the Barracuda and the Linear only. On the Snapper, the Goby and the Manta the housing is too small to carry one and those versions are 120° very wide. Being able to choose an optic at +120 °C is what makes the Linear HT usable along a tunnel rather than only inside one.

LIGHT DISTRIBUTION



120°, no optic



60° HT optic

OBTRUSIVE LIGHT

ULOR at 0° tilt	**0 %**
Colour temperatures	6500 K, 4000 K and 2700 K
Bi-colour	Not available on the high temperature versions

Nothing is emitted above the horizontal at 0° tilt. That is the figure a permitting authority asks for when a site borders a residential area or a protected zone, and it is the starting point for any assessment against NEN-EN 12464-2 and the NSVV guidance on obtrusive light. Where the site condition demands a cut off optic rather than a controlled floodlight, see the DarkLicht range.

COLOUR AND CONSISTENCY

Colour temperatures	6500 K, 4000 K, 2700 K
Bi-colour	Not available on the high temperature versions
Colour rendering	Ra > 70 standard, optionally 80 or 90
Colour consistency	MacAdam step 3 or better
LED service life	TM-21 L90B05, see the temperature ladder below
Ladder	> 360,000 h at 50 °C · 103,000 h at 85 °C · 71,700 h at 105 °C · 51,400 h at 120 °C

Full specification

All values apply to the standard configuration at 25 °C ambient, including lens losses and driver consumption. A hyphen means the entry does not apply to that version.

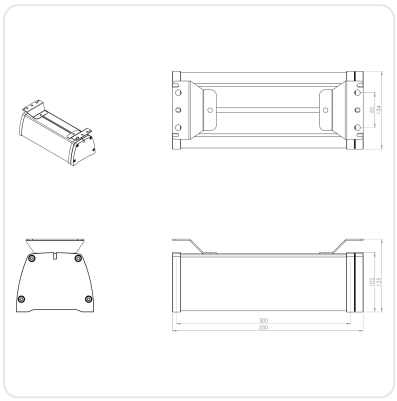
	LIN30 HT	LIN60 HT	LIN90 HT	LIN120 HT
PERFORMANCE				
Luminous flux HT-AC	6,400 lm	12,800 lm	19,200 lm	25,600 lm
Luminous flux HT-DC	3,900 lm	7,800 lm	11,700 lm	15,600 lm
Power consumption AC	30 W	60 W	90 W	120 W
Power consumption DC	22 W	44 W	66 W	88 W
Optics	120° very wide as standard, or 20°, 40° or 60° HT optic			
ELECTRICAL AND DRIVER				
Supply voltage range	90–305 VAC, or 9–32 VDC			
Current draw AC	0.13 to 0.11 A at 220 to 277 V	0.26 to 0.22 A	0.41 to 0.32 A	0.52 to 0.44 A
Current draw DC	0.92 A at 24 V	1.83 A at 24 V	2.8 A at 24 V	3.7 A at 24 V
Driver	AC: external BLD075	AC: external BLD075	AC: external BLD120	AC: external BLD120
Driver ambient	The driver box must sit in an ambient of at most +50 °C			
CONSTRUCTION				
Housing	Cast aluminium, less than 0.08 % copper. One piece, no end caps			
Surface finish	Conversion layer plus 2-layer titanium-based e-coating			
Bracket	Aluminium, less than 0.08 % copper, 0° to 45° in seven locked positions			
Front	Diffuse chemically hardened glass, or diffuse borosilicate, IK09			
Protection class	Class II			
Ingress protection	IP66, IP67, IP68 and IP69K, resistant to steam and high pressure cleaning			
Impact resistance	IK09 (IEC 62262)			
Corrosion class	C5 industrial and marine (ISO 9223)			
DURABILITY AND DIMENSIONS				
Ambient temperature	−45 to +120 °C on AC, −45 to +110 °C on DC			
LED service life	TM-21 L90B05: > 360,000 h at 50 °C · 103,000 h at 85 °C · 71,700 h at 105 °C · 51,400 h at 120 °C			
Cable and termination	SiHF-OB silicone, 4 cores (2 × 1.0 mm² + 2 × 0.5 mm²) to 600 mm, 2 × 2.5 mm² above			
Dimensions	134 × 102 × 350 mm	134 × 102 × 650 mm	134 × 102 × 950 mm	134 × 102 × 1250 mm
Weight	2.8 kg	4.4 kg	6.0 kg	7.6 kg
Warranty	5 years to +120 °C on AC, to +110 °C on DC			

The driver box is mounted outside the hot zone and is connected with heat resistant silicone cable. The LED life ladder applies to every high temperature luminaire in the range and is stated in the colour table rather than as a footnote.

Mechanics, mounting and driver

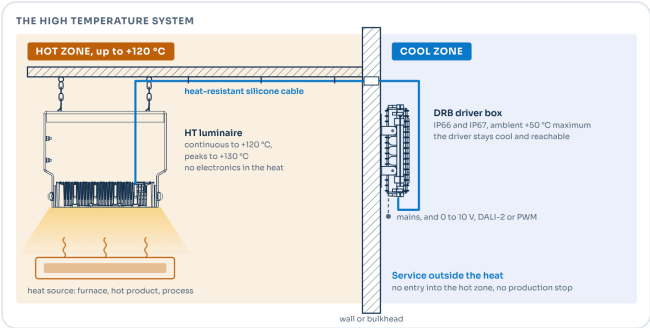
All drawings are to scale and dimensioned in millimetres. The driver box is a separate item and is mounted outside the hot zone.

HOUSING AND BRACKET



LIN30 HT	134 × 102 × 350 mm, 2.8 kg
LIN60 HT	134 × 102 × 650 mm, 4.4 kg
LIN90 HT	134 × 102 × 950 mm, 6.0 kg
LIN120 HT	134 × 102 × 1250 mm, 7.6 kg
Bracket	Aluminium, 0° to 45° in seven locked positions
Front	Diffuse diffuse borosilicate for food industry applications

LUMINAIRE AND DRIVER BOX



In the hot zone	The luminaire only
Outside the hot zone	The BLD075 or BLD120 driver
Between them	Heat resistant silicone cable
Driver ambient	+50 °C maximum
Optics	20°, 40° or 60° HT optic, or 120° very wide

MOUNTING AND ACCESSORIES

Bracket	Aluminium, supplied as standard, 0° to 45° in seven locked positions
DRB-1 driver box	Housing for the external driver, outside the hot zone
HT optics	20°, 40° or 60°, ordered as a suffix
Borosilicate front	Diffuse, where the glass sees radiant heat
Silicone cable	SiHF-OB, length on request
Point source alternative	Goby HT, Snapper HT, Barracuda HT or Orca HT

EXTERNAL DRIVER

LIN30 and LIN60	BLD075, outside the hot zone
LIN90 and LIN120	BLD120, outside the hot zone
Position	Ambient +50 °C maximum
Case temperature	Tc −40 to +90 °C
Lifetime	≥ 100,000 h at Tc 75 °C
Enclosure	Bare, or in the DRB-1

Heat is what kills a driver, not the LED. On the standard Linear the driver sits inside the housing; on the HT version it moves out of the hot zone entirely. That is the whole difference between the two products.

DRB-1 DRIVER BOX



Use	Housing for the external driver, outside the hot zone
DRB-1	One driver up to 320 W. 276 × 194 × 86.5 mm, 4.2 kg, IP66 and IP67
Ingress protection	IP66 and IP67
Ambient	+50 °C maximum

Ordering, standards and documents

ORDER CODE

Example **LVHT04-65K.60**

Linear LIN120 HT, AC, 1,200 mm, 6500 K, 60° HT optic

LVHT01 … LVHT04	HT-AC, 300, 600, 900 and 1,200 mm
HT-DC	DC versions, four lengths, to +110 °C
65K · 40K · 27K	6500 K · 4000 K · 2700 K
.20 · .40 · .60 · .120	HT optic suffix. 120° is the standard build
BORO	Diffuse borosilicate front instead of chemically hardened glass

Bi-colour and amber are not available on the high temperature versions. Cable length, driver placement and the diffuse borosilicate front are confirmed at order.

COMBINATIONS

HT optic with any length	Possible
Borosilicate front	Any version
DC to +110 °C	Standard
Bi-colour or amber	Not available
Internal driver	Not on the HT versions
Linking	On request

STANDARDS AND VERIFICATION

Subject	Standard	Verification
Luminaire safety	IEC/EN 60598-1, -2-5	In-house test
EMC emission and immunity	EN 55015, EN 61547	Third party test
Ingress	IEC 60529 and ISO 20653. IP66, IP67, IP68, IP69K	In-house test
Impact and vibration	IEC 62262 IK09 · IEC 60068-2-6 at 6 G	In-house test
Shock and corrosion	IEC 60068-2-27 · ISO 9223 class C5, industrial and marine	In-house test
Photometry	IES LM-79, IES files per optic	In-house test
Substances	RoHS, REACH	Self-declaration

BEFORE YOU ORDER

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

Five years warranty on the complete luminaire.

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

PRODUCT PAGE

IES files and revision history, DXF and STEP on request, and project references.
jelproducts.nl/en/products/linear-industriele-led-verlichting

WHERE IT EARNS ITS PLACE

A drying tunnel, a climate chamber or a paper machine is a long narrow hot space, and it is normally lit by whatever survives rather than by what fits. The Linear HT is the only luminaire in the range that is both linear and capable of carrying an optic at +120 °C, which is what lets the light run along the machine instead of pooling under it.

Notes. Values are for the standard configuration. The warranty follows the operating temperature: five years to +120 °C on AC and to +110 °C on DC. The LED life ladder in the colour table is the same for every high temperature luminaire in the range. North American models on request. The JEL range is not ATEX or Ex certified.