MODILITE

Metal-halide lamp for energy-efficient lighting

Applications

- Production halls and warehousing
- Hypermarkets and shopping centres
- Garden centres
- Sports and swimming facilities
- Trade fair and exhibition halls
- Aircraft hangars

MADE IN GERMANY

BLV
USHIO Group

Contact us
or one of our partners regarding your individual lighting requirements. Attractive state subsidies are available for your energy-efficient solution.

Save Energy – Increase Success

The right lighting is more than a way to present your products and processes. Intelligent lighting creates a better atmosphere and increases security and productivity, all whilst reducing costs.

By choosing MODILITE you are securing sustainability for your company, future proofing for cost efficiency and limiting your environmental impact.

Your advantages with innovative lighting solutions with MODILITE:

- You only use the energy you really need
- You reduce your running costs
- You reduce your CO_2 emissions and your environmental impact
- You create more comfortable lighting by maintaining your required level
- You invest in an efficient lighting solution with payback between 1.5 to 3 years
- You benefit from lamps with an average 15 000 h service life
- **You immediately reduce your energy costs by up to 65 %***

* Using a modern lighting system with dimmable electronic ballasts, dimmable MODILITE metal-halide lamps and an up-to-date lighting control in combination with daylight sensors and presence detectors.

Three scenarios – and your operating efficiency

Examples of annual energy costs and potential savings

Based on an example current situation you can see how quickly and how much you can save with your investment in MODILITE.

Current situation:

Use of conventional reflective industrial light fittings with HQL lamps and a magnetic choke. Because of the expected decrease in luminous power over time, a higher wattage light source (400 W) is installed to provide 100 % of the required lighting level through to the end of its service life. At the beginning you have a significantly higher lighting level than needed requiring more energy than necessary: because it cannot be dimmed. Additionally energy consumption is increased by the power dissipation of the conventional ballast.

Potential savings of up to 27 %

You replace the 400 W light source with a dimmable MODILITE metal-halide lamp with reduced wattage (320 W) and the conventional magnetic choke with more efficient dimmable electronic ballast. Due to the significantly lower decrease in luminous power throughout the service life of a MODILITE lamp in high-frequency operation with an electronic ballast it is possible to substitute a 320 W bulb. In the initial phase you also have more light than necessary – however these excess energy costs can also be reduced.

27 % energy savings

Potential savings of up to 56 %

You also use this potential saving and dim 'statically', i.e. you set the lamp powers to the required level and control the wattage over the lamp´s service life to compensate for the decrease in luminous power over time.

56 % energy savings

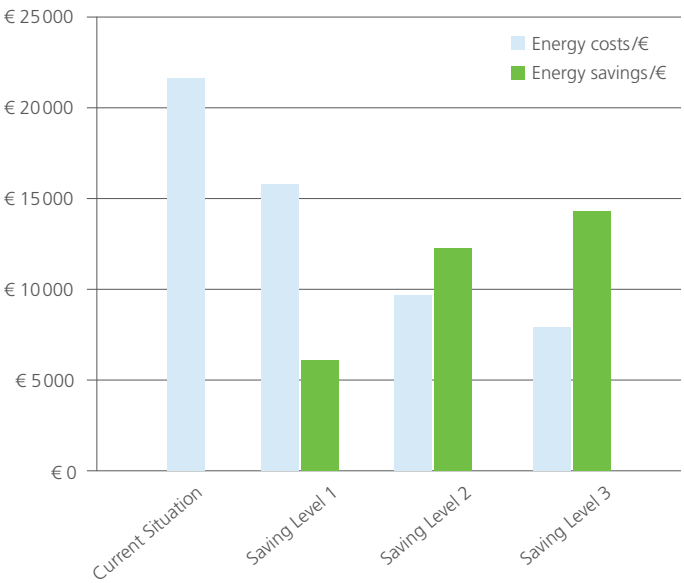
Potential savings of up to 65 %

You additionally install daylight sensors and presence detectors to control your lighting system dynamically via a professional lighting management system, e.g. applied in groups. When there is sufficient daylight and/or nobody is in the area the lamps are automatically dimmed up to 50 % in infinitely variable steps – giving you real cash benefits.

65 % energy savings

Annual energy costs and potential savings

Example: Unit with 100 lights, active 12 h/day, 260 days/year at energy cost 0.15 €/kWh



The savings in energy costs practically pay for your investment from the very first day. Depending on the level of equipment and investment, amortisation is spread over a period of 1.5 to 3 years. An exceptionally attractive duration that is currently difficult to achieve with LED highbay solutions.

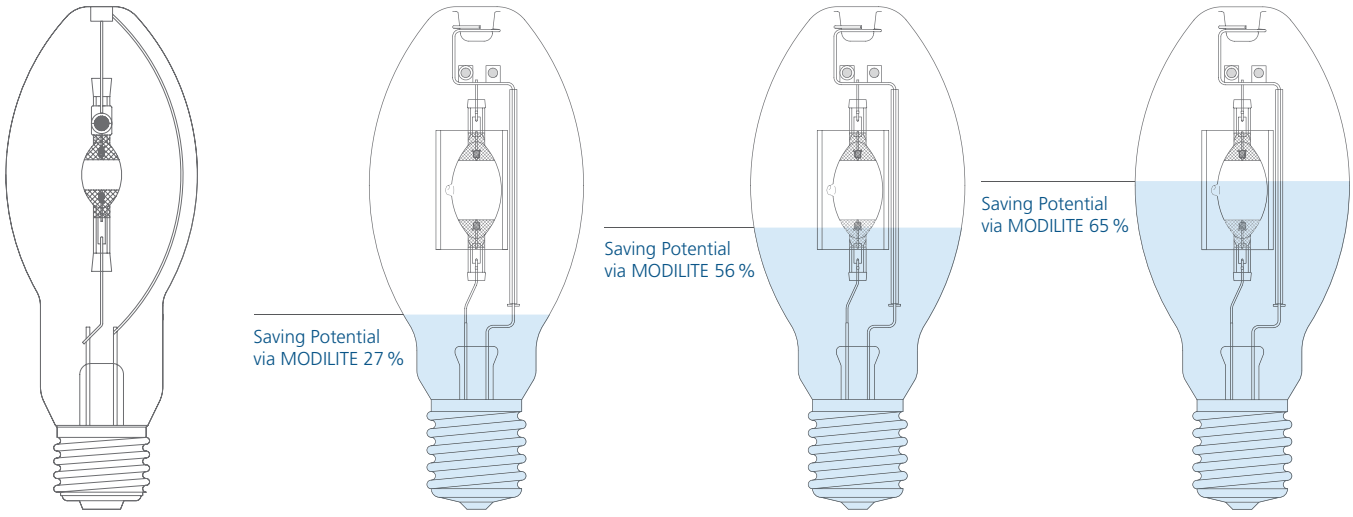
We would be delighted to advise you on how you can benefit even more using subsidies for energy saving measures in your region.

DIMMABLE

Technology that pays off

An instant return on investment

Everyone willing to invest in a contemporary lighting concept can save energy costs between 27 % and 65 %. Here's how it works:



CURRENT SITUATION | Saving Level 1 | Saving Level 2 | Saving Level 3

From innovation comes efficiency

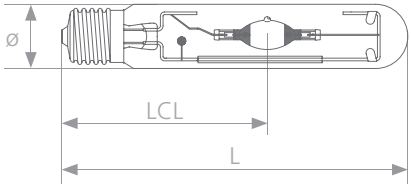
The MODILITE product range

The dimmable MODILITE metal-halide lamps are compatible with lighting systems from Nedap, Smartlux, Lanzini, Fael Luce, Schuch, Sill and other well-known producers, as long as they are equipped with the appropriate high-frequency electronic ballast.

The technology: three of the best

The MODILITE dimmable metal-halide lamps are dimmable down to 50 % of rated power (250 W to 60 %). The average life of 15 000 burning hours combined with high lumen maintenance (70 %) reduces maintenance and lamp replacement costs significantly. MODILITE lamps are available in three types each with the power levels 250 Watt, 320 Watt and 400 Watt.

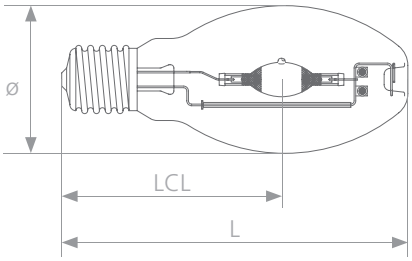
[HPT]



Type 1: MODILITE tubular [HPT]

- Tubular bulb
- Clear
- Box lights with protective glass (enclosed lighting)

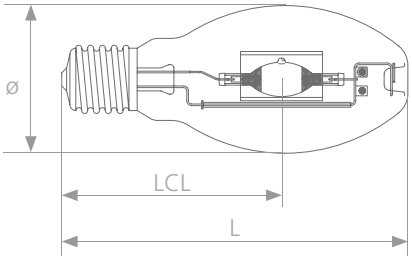
[HPE]



Type 2: MODILITE 90 [HPE and HPE-P]

- Oval bulb with 90 mm bulb diameter
- Clear or coated
- Ideal for new reflective industrial lighting with glass, acrylic or aluminium reflectors
- Available as HPE for lighting with protective glass and HPE-P for open lighting

[HPE-P]



Type 3: MODILITE 120 [HPE and HPE-P]

- Oval bulb with 120 mm bulb diameter
- Clear or coated
- Ideal for replacement in existing reflective industrial lighting, for example where mercury vapour pressure lamps are currently used
- Available as HPE for lighting with protective glass and HPE-P for open lighting

MODILITE – Particular advantages for use in interior and exterior areas

- ✔ Dimmable down to 50 %
- ✔ Energy savings up to 65 %
- ✔ High efficiency of up to 100 lm/W
- ✔ Long service life of up to 15 000 h
- ✔ Higher preservation of luminosity throughout the service life (L70)
- ✔ Flicker-free operation

MODILITE in comparison

Description	Finish	Nominal lamp wattage	Lamp current	Luminous flux [lm]	Colour temp. [K]	Dia-meter Ø [mm]	Length [mm-max.]	LCL [mm]	Colour rende-ring group	Item No.
HPT 250 nw E40	clear	250	2,5	22 500	4200	47,0	225,0	146,0	2A	298221
HPT 300 nw E40	clear	320	3,5	31 000	4200	47,0	275,0	175,0	2A	297221
HPT 400 nw E40	clear	400	4,0	39 000	4200	47,0	279,0	175,0	2A	295221
HPE 250 nw E40 cl 90	clear	250	2,5	22 500	4200	90,0	226,0	142,0	2A	229801
HPE 320 nw E40 cl 90	clear	320	3,5	31 000	4200	90,0	226,0	142,0	2A	229701
HPE 400 nw E40 cl 90	clear	400	4,0	39 000	4200	90,0	226,0	142,0	2A	229901
HPE 250 nw E40 co 90	coated	250	2,5	21 500	4200	90,0	226,0		2A	229851
HPE 320 nw E40 co 90	coated	320	3,5	30 000	4200	90,0	226,0		2A	229751
HPE 400 nw E40 co 90	coated	400	4,0	38 000	4200	90,0	226,0		2A	229951
HPE-P 250 nw E40 cl 90	clear	250	2,5	21 500	4200	90,0	226,0	142,0	2A	229803
HPE-P 320 nw E40 cl 90	clear	320	3,5	30 000	4200	90,0	226,0	142,0	2A	229703
HPE-P 400 nw E40 cl 90	clear	400	4,0	38 000	4200	90,0	226,0	142,0	2A	229903
HPE-P 250 nw E40 co 90	coated	250	2,5	21 000	4200	90,0	226,0		2A	229853
HPE-P 320 nw E40 co 90	coated	320	3,5	29 500	4200	90,0	226,0		2A	229753
HPE-P 400 nw E40 co 90	coated	400	4,0	37 000	4200	90,0	226,0		2A	229953
HPE 250 nw E40 cl 120	clear	250	2,5	22 500	4200	120,0	290,0	175,0	2A	229811
HPE 320 nw E40 cl 120	clear	320	3,5	31 000	4200	120,0	290,0	175,0	2A	229711
HPE 400 nw E40 cl 120	clear	400	4,0	39 000	4200	120,0	290,0	175,0	2A	229911
HPE 250 nw E40 co 120	coated	250	2,5	21 500	4200	120,0	290,0		2A	229861
HPE 320 nw E40 co 120	coated	320	3,5	30 000	4200	120,0	290,0		2A	229761
HPE 400 nw E40 co 120	coated	400	4,0	38 000	4200	120,0	290,0		2A	229961
HPE-P 250 nw E40 cl 120	clear	250	2,5	21 500	4200	120,0	290,0	175,0	2A	229813
HPE-P 320 nw E40 cl 120	clear	320	3,5	30 000	4200	120,0	290,0	175,0	2A	229713
HPE-P 400 nw E40 cl 120	clear	400	4,0	38 000	4200	120,0	290,0	175,0	2A	229913
HPE-P 250 nw E40 co 120	coated	250	2,5	21 000	4200	120,0	290,0		2A	229863
HPE-P 320 nw E40 co 120	coated	320	3,5	29 500	4200	120,0	290,0		2A	229763
HPE-P 400 nw E40 co 120	coated	400	4,0	37 000	4200	120,0	290,0		2A	229963

Ignition Voltage: 4.0 kV | Average service life: 15 000 h | Burning position: u360 | Base: E40 | Packaging unit: 12

Changes of the specified values and tolerances are possible within the appropriate standards!

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MADE IN GERMANY

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