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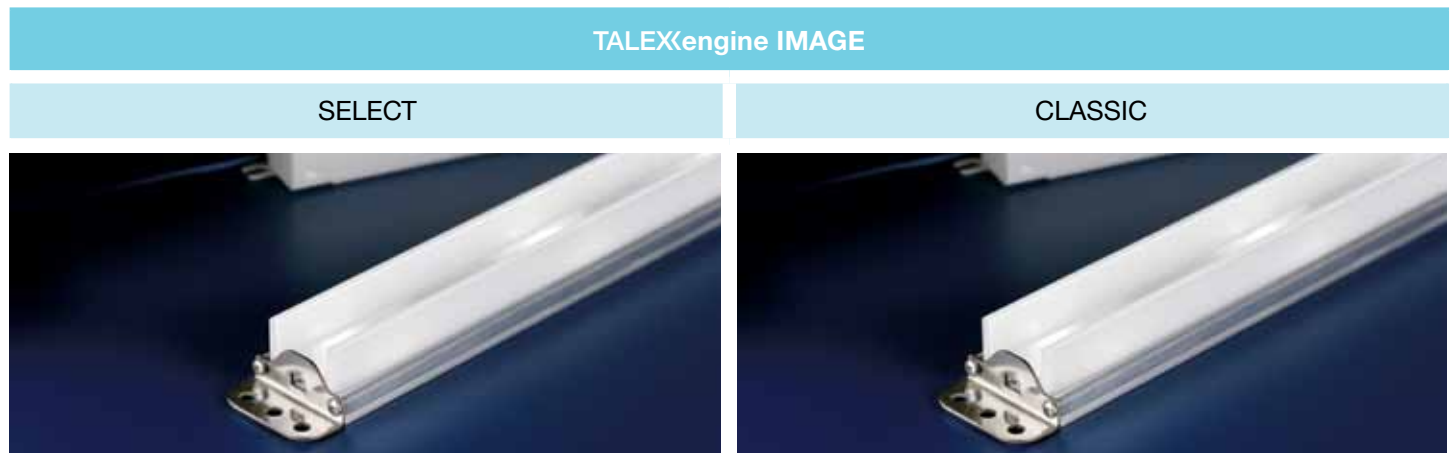


Product Leaflet

TALEXEngine IMAGE



Robust and powerful: These LED engines can provide uniform illumination on any surface



Uniform, brilliant and homogenous

The compact TALEXengine IMAGE portfolio with its two product types SELECT and CLASSIC is the high-quality economical LED alternative to fluorescent lamps. The dimensions of existing light boxes and other such equipment have been defined on the basis of the size and shape of fluorescent lamps. Thanks to their linear design and similar lengths to those of fluorescent lamps, the products in the TALEXengine IMAGE series are quick and easy to assemble and install on the side walls of light boxes. Uniform illumination, even over large spans, is achieved with an intelligent combination of LED module, patented hotspot suppression and a diffuser lens. What's more, the arrangement of the LED light points in the LED engines has been optimised for demanding tasks – so even if you combine different lengths you still get brilliant uniform light.

▼ At a glance: TALEXengine IMAGE series

- Uniform backlighting of single and double sided light boxes thanks to patented hotspot suppression
- Any combination of LED engines of different lengths without any loss in the quality or uniformity of the light for different sizes of light boxes
- Simple assembly and installation
- High energy efficiency
- Low maintenance
- Similar lengths to those of fluorescent lamps
- Very robust product design



Typical applications

TALEXengine IMAGE series is ideal indoors and with suitable protection, outdoors in light boxes, light pillars, poster boxes and sail installations. In addition, the product range can also be used in classic signage such as logos or to illuminate promotional signs.

Product characteristics

Technical property	TALEXengine IMAGE SELECT	TALEXengine IMAGE CLASSIC
Luminous flux	For the same length, SELECT has a 50 % higher luminous flux than CLASSIC. Example: 300 mm CLASSIC: 290 lm; 300 mm for SELECT: 435 lm (= 290 lm + 50 %)	
Type of protection	IP20	IP20
Lens	30°	30°
End caps	Metal	Metal
Available length	300/500/600/900/1,200/1,500 mm (equal to T8 fluorescent tubes)	300/600/900/1,200/1,500 mm (equal to T8 fluorescent tubes)
Light colour	DL (6,500 K)	DL (6,500 K)
Colour tolerance	McAdam 5	McAdam 5
Installation depth single-sided*	10 cm – 25 cm	13 cm – 20 cm
Installation depth double-sided*	15 cm – 30 cm	18 cm – 25 cm
Life time	80,000 h	80,000 h
Guarantee	5 years	5 years
Luminous efficacy	59 lm/W	59 lm/W

*Ideal depth of the light box

Matching accessories

We offer you system solutions – in other words matching products from a single source. The right converters for our TALEXengine IMAGE series are also available:

Type	Art. no.	P _{out}	I _{out}	Type of protection
TALEXconverter LCAI 030/0700 A120	24166316	30 W	700 mA	IP20
TALEXconverter LCI 015/0700 E020	24166318	15 W	700 mA	IP20
TALEXconverter LCI 030/0700 E020	24166322	30 W	700 mA	IP20
TALEXconverter LCI 033/0700 U010	25000669	33 W	700 mA	IP67



► Technical details on this product can be found on the data sheets (available to download from led.tridonic.com).



One product type for all applications

The diffused lens helps provide optimum illumination

Uniform illumination thanks to patented hotspot suppression

TALEXengine IMAGE are available in the following versions:

TALEXengine IMAGE SELECT

Type	Art. no.	Colour	Colour temperature	Length	Hole spacing	Number of LEDs	Luminous efficacy*	Typ. luminous flux*
LED IMA-SEL DL 700mA 300 3 20 1000	89601366	Daylight white	6,500 K	300 mm	288 mm	3	59 lm/W	435 lm
LED IMA-SEL DL 700mA 500 5 20 1000	89601409	Daylight white	6,500 K	500 mm	488 mm	5	59 lm/W	725 lm
LED IMA-SEL DL 700mA 600 6 20 1000	89601367	Daylight white	6,500 K	600 mm	588 mm	6	59 lm/W	870 lm
LED IMA-SEL DL 700mA 900 9 20 1000	89601368	Daylight white	6,500 K	900 mm	888 mm	9	59 lm/W	1,305 lm
LED IMA-SEL DL 700mA 1200 12 20 1000	89601369	Daylight white	6,500 K	1,200 mm	1,188 mm	12	59 lm/W	1,740 lm
LED IMA-SEL DL 700mA 1500 12 20 1000	89601370	Daylight white	6,500 K	1,500 mm	1,488 mm	12	59 lm/W	1,740 lm

*Tolerance range for electrical data: $\pm 15\%$, tolerance range for optical data: $+0\%/-30\%$

TALEXengine IMAGE CLASSIC

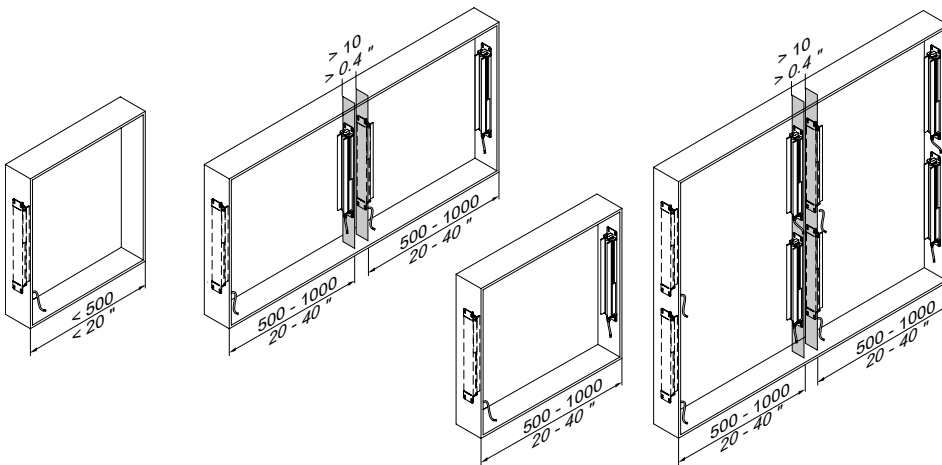
Typ	Art. no.	Colour	Colour temperature	Length	Hole spacing	Number of LEDs	Luminous efficacy*	Typ. luminous flux*
LED IMA-CLA DL 700mA 300 2 20 0000	89601127	Daylight white	6,500 K	300 mm	288 mm	2	59 lm/W	290 lm
LED IMA-CLA DL 700mA 600 4 20 0000	89601128	Daylight white	6,500 K	600 mm	588 mm	4	59 lm/W	580 lm
LED IMA-CLA DL 700mA 900 6 20 0000	89601129	Daylight white	6,500 K	900 mm	888 mm	6	59 lm/W	870 lm
LED IMA-CLA DL 700mA 1200 8 20 0000	89601130	Daylight white	6,500 K	1,200 mm	1,188 mm	8	59 lm/W	1,160 lm
LED IMA-CLA DL 700mA 1500 10 20 0000	89601131	Daylight white	6,500 K	1,500 mm	1,488 mm	10	59 lm/W	1,450 lm

*Tolerance range for electrical data: $\pm 15\%$, tolerance range for optical data: $+0\%/-30\%$



Installation options

Depending on the mounting depth and the size of the signage, the following installations are recommended:



Recommended installation depths

Single-sided and double-sided signage can be uniformly illuminated with the TALEXengine IMAGE series of products.



single-sided
(viewed from above)



double-sided
(viewed from above)

IMAGE SELECT, single-sided: 10–25 cm
IMAGE CLASSIC, single-sided: 13–20 cm

IMAGE SELECT, double-sided: 15–30 cm
IMAGE CLASSIC, double-sided: 18–25 cm

Recommendation for single-sided applications with TALEX®engine IMAGE SELECT

Size of the signage element	Recommended product	Qty.	Luminance diffuser (PMMA): Translucence 30 % standard white	Luminance diffuser (PMMA): Translucence 40 % standard white	Luminance diffuser (PMMA): Translucence 55 % standard white
0.3m x 0.3m	LED IMA-SEL 300	1	400	620	740
0.5m x 0.5m	LED IMA-SEL 500	1	240	370	440
0.6m x 0.6m	LED IMA-SEL 600	2	400	620	740
0.9m x 0.9m	LED IMA-SEL 900	2	270	410	490
1.2m x 1.0m	LED IMA-SEL 1200	2	270	370	440
1.5m x 1.0m	LED IMA-SEL 1500	2	170	300	350

Recommendation for single-sided applications with TALEX®engine IMAGE CLASSIC

Size of the signage element	Recommended product	Qty.	Luminance diffuser (PMMA): Translucence 30 % standard white	Luminance diffuser (PMMA): Translucence 40 % standard white	Luminance diffuser (PMMA): Translucence 55 % standard white
0.3m x 0.3m	LED IMA-CLA 300	1	270	410	490
0.6m x 0.6m	LED IMA-CLA 600	2	190	300	350
0.9m x 0.9m	LED IMA-CLA 900	2	180	270	330
1.2m x 1.0m	LED IMA-CLA 1200	2	160	250	290
1.5m x 1.0m	LED IMA-CLA 1500	2	160	250	290

Recommendation for double-sided applications with TALEX®engine IMAGE SELECT

Size of the signage element	Recommended product	Qty.	Luminance diffuser (PMMA): Translucence 30 % standard white	Luminance diffuser (PMMA): Translucence 40 % standard white	Luminance diffuser (PMMA): Translucence 55 % standard white
0.3m x 0.3m	LED IMA-SEL 300	1	300	460	550
0.5m x 0.5m	LED IMA-SEL 500	1	180	270	330
0.6m x 0.6m	LED IMA-SEL 600	2	300	460	550
0.9m x 0.9m	LED IMA-SEL 900	2	200	310	360
1.2m x 1.0m	LED IMA-SEL 1200	2	200	270	330
1.5m x 1.0m	LED IMA-SEL 1500	2	130	220	260

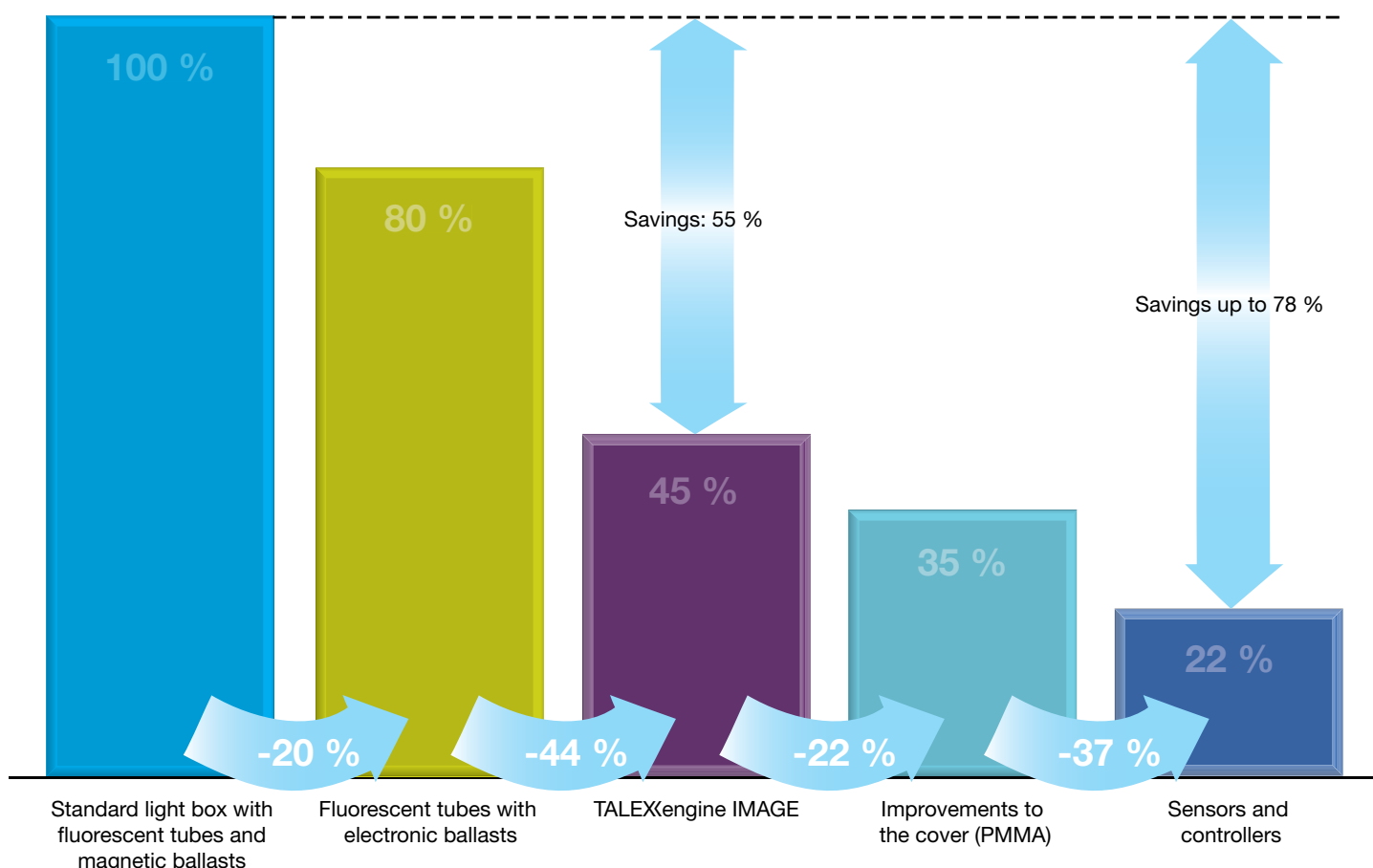
Recommendation for double-sided applications with TALEX®engine IMAGE CLASSIC

Size of the signage element	Recommended product	Qty.	Luminance diffuser (PMMA): Translucence 30 % standard white	Luminance diffuser (PMMA): Translucence 40 % standard white	Luminance diffuser (PMMA): Translucence 55 % standard white
0.3m x 0.3m	LED IMA-CLA 300	1	200	310	360
0.6m x 0.6m	LED IMA-CLA 600	2	140	220	260
0.9m x 0.9m	LED IMA-CLA 900	2	130	200	240
1.2m x 1.0m	LED IMA-CLA 1200	2	120	180	220
1.5m x 1.0m	LED IMA-CLA 1500	2	120	180	220

Note on the recommendation

The specified luminances are guide values for average mounting depths. Depending on the situation, the values achieved in the actual application may differ from these average values.

Energy savings included



Uniform illumination is taken as the basis for this calculation. The maximum luminance is not taken into consideration.

Support and advice from a single source

We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to our slogan: We devote all our energy to your light.

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries. The easiest way to find your regional contact is to check our website at www.tridonic.com.



Exactly what you need for your LED product solutions
Systems, modules, components and more

- ___ High-intensity lighting effect thanks to exceptional white light quality
- ___ Reliability thanks to long-lasting colour precision
- ___ Flexibility thanks to varied product portfolio
- ___ Advice and support provided by your Tridonic service team as usual

Make sure you have all your LEDs under perfect control:
led.tridonic.com