



PHILIPS

ErP legislation

HID lighting

ErP in the spotlight

Stage 3 of the Energy related Product legislation (EC245/2009) starts April 12th 2017 and requires all inefficient light sources to be phased out. As the legislation reaches its third stage, a number of popular lighting types will be affected.



* Data derived from EC245/2009

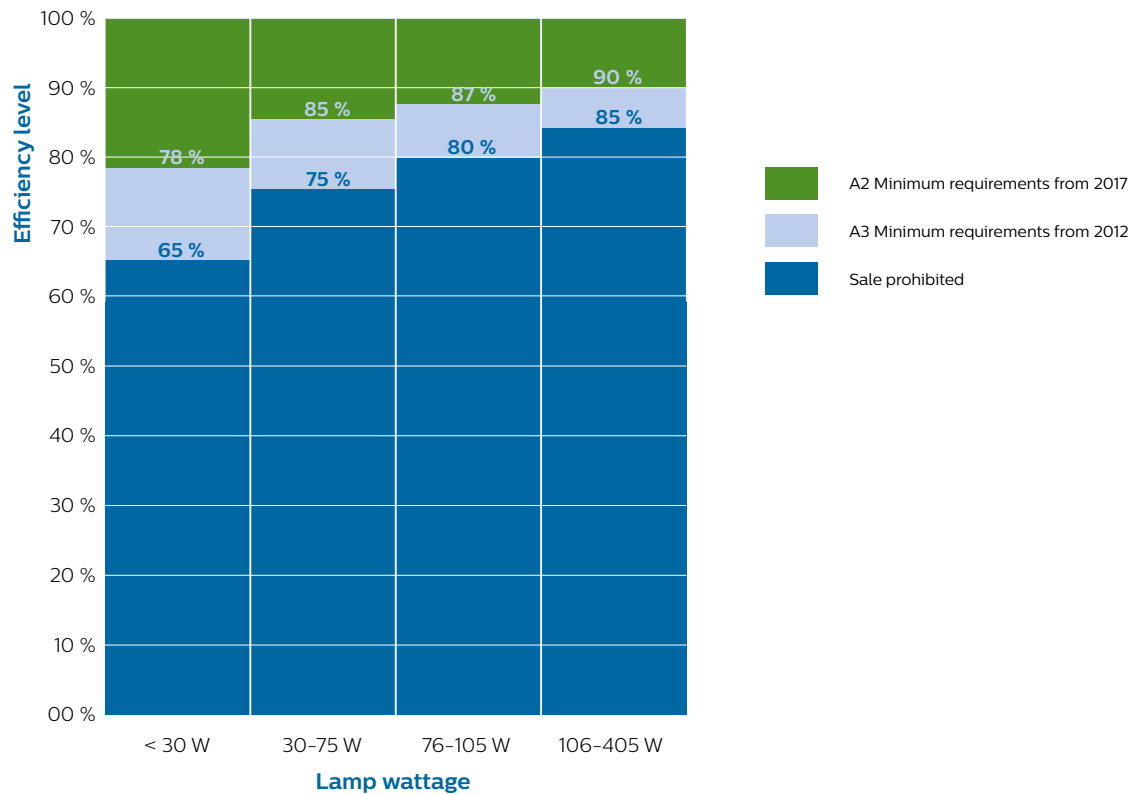
Requirements for Metal Halide lamps with E27/E40/PGz12 caps

Nominal lamp wattage (W)	Rated lamp efficacy (lm/W) - Clear lamps	Rated lamp efficacy (lm/W) - Not clear lamps
$W \leq 55$	≥ 70	≥ 65
$55 < W \leq 75$	≥ 80	≥ 75
$75 < W \leq 105$	≥ 85	≥ 80
$105 < W \leq 155$	≥ 85	≥ 80
$155 < W \leq 255$	≥ 85	≥ 80
$255 < W \leq 405$	≥ 90	≥ 85

Burning hours	Lamp lumen maintenance factor	Lamp survival factor
12,000	> 0.80	> 0.80

Nominal lamp wattage (P) (W)	April 2017 onwards	2012 - 2017
	Minimum ballast efficiency [%]	Minimum ballast efficiency [%]
$P < 30$	78	65
$30 < P < 75$	85	75
$75 < P < 105$	87	80
$105 < P < 405$	90	85
$P > 405$	92	90

ErP Directive for HID ballasts



To make sure that the portfolio you offer also complies after April 2017, we are currently working on product upgrades and/or replacements for the impacted lamps.

All impacted lamps are being upgraded to comply

Below lamps are impacted by the third stage of the ErP legislation. From September 2016 onwards we have 1-1 retrofits available that offer an efficient and cost-effective solution for the impacted lamps. Detailed information on the upgrades can be found in the product table. For further details on the new portfolio, please visit www.philips.com/mastercolourcdm

Quartz Metal Halide lamps

Ceramic Metal Halide lamps



HPI-T Plus - Impacted - Upgrade now to CDM-T MW eco
HPI Plus - Impacted - Upgrade now to CDM-E MW eco
HPI-T - Exempted - All our lamps comply
MHN - Exempted - All our lamps comply

CPO-TW/TT - All our lamps comply
CDO-TT/ET - All our lamps comply
CDM Elite MW - Exempted - All our lamps comply
CDM-TT - Impacted - Upgrade now to CDO-TT 4200K

SON High Pressure Sodium lamps

SOX low pressure Sodium lamps

HID Horticulture lamps

Compact High Intensity Discharge lamps



Not impacted
 All our lamps comply

Exempted
 All our lamps comply

Exempted
 All our lamps comply

Not impacted
 All our lamps comply

List of impacted lamps (EC245/2009)

Material code	Ordering code (EOC) 8711500	Product name	Upgrade Product name	Material code	Ordering code (EOC)
MASTER HPI-T Plus					
928481300098	179890 15	MASTER HPI-T Plus 250W/645 E40 1SL/12	MASTERColour CDM-T MW eco 230W/842 E40 1SL/12	928070119230	871869659681400
928481600096	179906 15	MASTER HPI-T Plus 400W/645 E40 1SL/12	MASTERColour CDM-T MW eco 360W/842 E40 1SL/12	928070319230	871869664610600
MASTER HPI Plus					
928410800027	211477 15	MASTER HPI Plus 250W/645 BU-P E40 1SL/12	MASTERColour CDM-EP MW eco 230W/842 E40 1SL/6	Q1 2017	Q1 2017
928076709891	181145 15	MASTER HPI Plus 250W/645 BU E40 1SL/12	MASTERColour CDM-E MW eco 230W/842 E40 1SL/6	928076709891	871869659664700
928076809894	207395 15	MASTER HPI Plus 250W/667 BU E40 1SL/12	MASTERColour CDM-E MW eco 230W/842 E40 1SL/6*	928076709891	871869659664700
928410700027	211453 10	MASTER HPI Plus 400W/645 BUS-P E40 1SL/6	Upgrade/successor expected Q1 2017	Q1 2017	Q1 2017
928074709891	181114 10	MASTER HPI Plus 400W/645 BUS E40 1SL/6	Upgrade/successor expected Q1 2017	Q1 2017	Q1 2017
928410600027	211439 10	MASTER HPI Plus 400W/645 BU-P E40 1SL/6	MASTERColour CDM-EP MW eco 360W/842 E40 1SL/6	Q1 2017	Q1 2017
928074309891	182524 10	MASTER HPI Plus 400W/645 BU E40 1SL/6	MASTERColour CDM-E MW eco 360W/842 E40 1SL/6	928074309891	871869659568800
928074409894	207371 10	MASTER HPI Plus 400W/667 BU E40 1SL/6	MASTERColour CDM-E MW eco 360W/842 E40 1SL/6*	928074309891	871869659568800
MASTERColour CDM-TT					
928093609235	209658 15	MASTERCOLOUR CDM-TT 70W/942 E27 1SL/12	MASTER CityWhite CDO-TT Plus 70W/942 E27 1SL/12	928082619230	871869659679100
928093709230	209672 15	MASTERCOLOUR CDM-TT 150W/942 E40 1SL/12	MASTER CityWhite CDO-TT Plus 150W/942 E40 1SL/12	928082519230	871869659675300

*Please note that the color temperature changes from 6700K (cool daylight) to 4200K (cool light)

All impacted drivers are being upgraded to comply*

After April 2017, all electromagnetic A3 MK4 drivers and the majority of A3 Heavy Duty drivers will be banned for sales within the EU, both for initial installs and replacements. Exception for this are the magnetic drivers (“BSX”) for SOX lamps, which are not affected by this legislation, and a few metal halide ballasts below 400W with efficacy above 90%. Ignitors and capacitors will not be affected by ErP Stage 3 legislation. Philips is currently working on A2 alternatives. An “A2 alternative” is an upgraded ballast which complies with new Commission Regulation (EC) No 245/2009 legislation, where all ballasts need to have Energy Efficiency Index (EEI) of A2 or better. Further detailed communication will follow in the coming months.

Fortunately, we also have a broad portfolio available of electronic drivers that can replace magnetic drivers:

- Our electronic HID drivers can drive all lamps up to 250W
- Our new and attractively priced alternative **Philips BasePerform** can replace all Magnetic drivers up to 150W for SON and CDO lamps
- Magnetic drivers of 400W and above will remain unchanged and continue to be available for high wattage HID lamps
- Sports lamps can be served either by magnetic drivers or 3rd party electronics drivers



BHA 500



BHL 80



BSL 100



BSN 250

*Non-compliant ballasts will be available for purchasing in EU countries under following conditions:

- There will be no CE marking and Declaration of conformity (DoC)
- They can only be used in luminaires intended for exporting to third countries outside EU
- A special agreement needs to be signed between Philips and the customer

These drivers are not affected by the new legislation

*Actual portfolio valid for Q3 2016

913604960426	BHA 400 L33 230V 50Hz HD2-151
913700232103	BHD 2000 L76 380/400/415V 50Hz HP-317
913700217903	BHL 2000 L76 380/400/415V 50Hz HP-317
913700218403	BHL 1000 L02 220V 50Hz HP-207
913700217303	BHL 1000 L78 230/240V 50Hz HP-207
913700284626	BHL 400 K202 230V 50Hz BC2-151
913700278226	BHL 400 K307 230/240V 50Hz BC2-160
913700278327	BHL 400 K327 230/240V 50Hz BC2-160
913604920426	BHL 400 L40 230V 50Hz HD2-151
913700283226	BHL 250 K202 230V 50Hz BC2-126
913700278026	BHL 250 K307 230/240V 50Hz BC2-134
913700278127	BHL 250 K327 230/240V 50Hz BC2-134
913603920426	BHL 250 L40 230V 50Hz HD2-126
913700217503	BSN 1000 L78 230/240V 50Hz HP-257
913700293426	BSN 400 K307-TS-R 230/240V 50Hz BC3-166
913700277826	BSN 400 K407-ITS 230/240V 50Hz BC3-166
913700277826	BSN 400 K407-ITS 230/240V 50Hz BC3-166
913700226926	BSN 400 L33-TS 230V 50Hz HD3-166
913700287426	BSN 100/70 K407-TS 230/240V 50Hz BC1-123
913700282626	BSN 70 K302-I 230V 50Hz BC1-118
913700226526	BSN 70 L33-TS 230V 50Hz HD1-118
913700226626	BSN 70 L34-TS 240V 50Hz HD1-118
913647057226	BSX 131 H96 220-240V 50Hz CW-178/78
913680093426	BSX 131 H96 TR 220-240V 50Hz CW-114/74
913654097226	BSX 135 H96 220-240V 50Hz CW-149/67
913626027226	BSX 180 H96 220-240V 50Hz CW-178/78
913653920526	BSX 36 H66 240V 50Hz CW-173/44
913653000326	BSX 55 H26 220-230V 50Hz CW-173/44
913650030326	BSX 90 H26 220-230V 50Hz CW-173/52
913650080526	BSX 90 L32 240V 50Hz HD1-118
913650080426	BSX 90 L40 230V 50Hz HD1-118
913668007226	BSX 91 H96 220-240V 50Hz CW-149/67

These drivers are affected by the new legislation

*Actual portfolio valid for Q3 2016


913700285926	BHL 125 K202 230V 50Hz BC1-118
913700286026	BHL 125 K307 230/240V 50Hz BC1-118
913602950426	BHL 125 L40 230V 50Hz HD1-118
913700280226	BHL 80/125 K407 230/240V 50Hz BC1-118
913700280327	BHL 80/125 K427 230/240V 50Hz BC1-118
913700286126	BHL 50/80 K407 230/240V 50Hz BC1-118
913700280926	BMH 70 K407-ITS 230/240V 50Hz BC1-118
913700280626	BMH 35 K407-ITS 230/240V 50Hz BC1-118
913700281126	BSL 100 K307-TS 230/240V 50Hz BC1-118
913700281426	BSL 50 K307-TS 230/240V 50Hz BC1-118
913700283126	BSN 250 K302-I 230V 50Hz BC2-151
913700292526	BSN 250 K307-TS-R 230/240V 50Hz BC2-160
913700277626	BSN 250 K407-ITS 230/240V 50Hz BC2-160
913700277626	BSN 250 K407-ITS 230/240V 50Hz BC2-160
913700277727	BSN 250 K427-ITS 230/240V 50Hz BC2-160
913700226326	BSN 250 L33-TS 230V 50Hz HD2-151
913700286226	BSN 250/150 K407-TS 230/240V 50Hz
913700283026	BSN 150 K302-I 230V 50Hz BC2-126
913700292126	BSN 150 K307-TS-R 230/240V 50Hz BC2-134
913700277426	BSN 150 K407-ITS 230/240V 50Hz BC2-134
913700277527	BSN 150 K427-ITS 230/240V 50Hz BC2-134
913700226126	BSN 150 L33-TS 230V 50Hz HD2-126
913700286726	BSN 150/100 K407-TS 230/240V 50Hz
913700286827	BSN 150/100 K427-TS 230/240V 50Hz
913700292026	BSN 100 K307-TS-R 230/240V 50Hz BC1-123
913700277226	BSN 100 K407-ITS 230/240V 50Hz BC1-123
913700277327	BSN 100 K427-ITS 230/240V 50Hz BC1-123
913700226726	BSN 100 L33-TS 230V 50Hz HD1-123
913700226826	BSN 100 L34-TS 240V 50Hz HD1-123
913700293026	BSN 70 K301-ITS 220V 60Hz BC1-118
913700293126	BSN 70 K307-TS-R 230/240V 50Hz BC1-118
913700750326	BSN 70 K327-TS-R 230/240V 50Hz BC1-118
913700277026	BSN 70 K407-ITS 230/240V 50Hz BC1-118
913700277127	BSN 70 K427-ITS 230/240V 50Hz BC1-118
913700287226	BSN 70/50 K407-TS 230/240V 50Hz BC1-118
913700287327	BSN 70/50 K427-TS 230/240V 50Hz BC1-118
913700282126	BSN 50 K302-I 230V 50Hz BC1-118
913700276826	BSN 50 K407-ITS 230/240V 50Hz BC1-118
913700276927	BSN 50 K427-ITS 230/240V 50Hz BC1-118
913700253626	BSN 50 L33-TS 230V 50Hz HD1-118

Upgrade to LED

It is also possible to upgrade conventional lighting to 'hole-for-hole' LED replacements. Using LED lighting technology allows for energy savings of up to 75% compared with conventional lighting fixtures. Our CoreLine range of LED luminaires are stylish, energy-saving, affordable and easy-to-install. Simply remove the old fixture and fit the new innovative LED CoreLine solution; virtually no need for expensive rewiring or new ceiling configurations.


CoreLine high-bay

An upgrade for 250 W and 400 W conventional HPI high-bays

CoreLine	Wattage W	Lifetime	Save up to	Luminous Flux lm	Color Temp. K	CRI	Product description	EOC code
 CoreLine high-bay	155	50,000 hrs	6,4%	20,500	4000	≥80	BY121P G3 LED2055/840 PSU WB GR	30145700
	155	50,000 hrs	6,4%	20,500	4000	≥80	BY121P G3 LED2055/840 PSD WB GR	30147100
	85	50,000 hrs	6,9%	10,500	4000	≥80	BY120P G3 LED1055/840 PSU WB GR	30144000
	85	50,000 hrs	6,9%	10,500	4000	≥80	BY120P G3 LED1055/840 PSD WB GR	30146400
	n/a	n/a	n/a	n/a	n/a	n/a	BY121Z G3 MB	30149500
	n/a	n/a	n/a	n/a	n/a	n/a	BY120Z G3 MB	30148800

CoreLine tempo large (IP65/IK08)

An upgrade for floodlights with conventional HID lamps of up to 400 W

Products name	Product family	Optic type (LOR 0,88)	Lamp type	CCT K	System lumen output klm (+/-7%)	Power system W (+/-11%)	Efficiency Lm/W	Lifetime
 CoreLine tempo large	BVP130	A/52	LED NW	4000	16,5	140	119	50,000 hrs
				4000	21,6	178	121	50,000 hrs
				4000	26,8	245	110	50,000 hrs
		S	LED NW	4000	16,5	140	119	50,000 hrs
				4000	21,6	178	121	50,000 hrs
				4000	26,8	245	110	50,000 hrs

Other models available in the CoreLine tempo range:

System flux:
BVP110: 4.2 klm system flux (CoreLine tempo small) & BVP120: 8 / 12 klm system flux (CoreLine tempo)
An upgrade for the conventional from 70W to 150W HID

To find out more, go to www.philips.com/conventional

© Philips Lighting Holding B.V. 2016. All rights reserved. Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

www.philips.com/conventional

