



**PHILIPS**

**Transformer and  
dimmer list**  
Professional Q3 2017



# Table of content

- Recommended Low Voltage Dimmer compatibility list - LED Lamps 2
- Recommended electronic transformer compatibility list for Low Voltage lamps  
For Non-dimmable systems only 8

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*



**Master LEDspot AR111 GU53 11-50W 24D**

		Transformer																				
		Philips						Varilight				OSRAM				Tridonic						
Brand	Model	Certaline 60	Certaline 105		Certaline 150		Primaline 70	Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER			
Wattage		20 - 60W	35 - 150W		50 - 150W		20 - 70W	35 - 105W		50 - 150W		0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W			
Quantity		1 lamp	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp	1 lamp	1 lamp	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp			
Mode		TE	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE			
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	35% - 98%	39% - 99%	38% - 99%	39% - 99%	38% - 99%	37% - 99%	33% - 99%	32% - 99%	39% - 99%	37% - 99%	19% - 99%	22% - 99%	flicker	32% - 99%	33% - 99%	29% - 99%	28% - 99%	flicker
	Gira	1176	50 - 420W	UNI	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	28% - 99%	26% - 99%	flicker	18% - 99%	19% - 99%	flicker	flicker	flicker
	Merten (Schneider)	5771	20 - 315W	TE	45% - 99%	38% - 99%	37% - 99%	36% - 99%	35% - 99%	33% - 99%	32% - 99%	33% - 99%	31% - 98%	29% - 99%	27% - 99%	23% - 100%	23% - 99%	19% - 99%	21% - 99%	34% - 99%	33% - 99%	38% - 99%
	Insta Group (Berker)	283010	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	flicker	flicker	flicker	19% - 99%	flicker	flicker	9% - 99%	10% - 99%	flicker	flicker	flicker
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	31% - 99%	29% - 99%	31% - 99%	29% - 99%	28% - 100%	24% - 99%	19% - 99%	flicker	10% - 99%	9% - 99%	15% - 99%	17% - 99%	11% - 99%
	Schneider Electric	315GLE	20 - 315W	TE	38% - 100%	37% - 99%	38% - 100%	34% - 100%	32% - 99%	29% - 99%	28% - 99%	22% - 99%	23% - 99%	22% - 99%	17% - 99%	8% - 99%	flicker	9% - 99%	8% - 99%	18% - 99%	19% - 99%	8% - 99%



**Master LEDspot AR111 GU53 11-50W 8D**

		Transformer																
		Philips					Varilight		OSRAM		Tridonic							
Brand	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	VIPER						
Wattage		20 - 60W	35 - 105W	50 - 150W	20 - 70W	35 - 105W	50 - 150W	0 - 50W	0 - 70W	20 - 70W	35 - 105W	20 - 60W						
Quantity		1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp						
Mode		TE	TE	TE	LE & TE	LE & TE	LE & TE			LE & TE	LE & TE	LE & TE						
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	39% - 99%	45% - 99%	42% - 99%	flicker	37% - 99%	47% - 98%	15% - 99%	21% - 99%	flicker	33% - 98%	flicker			
	Gira	1176	50 - 420W	UNI	flicker	flicker	flicker	flicker	flicker	flicker	36% - 99%	29% - 99%	flicker	16% - 99%	flicker			
	Merten (Schneider)	5771	20 - 315W	TE	48% - 99%	35% - 99%	29% - 99%	24% - 98%	29% - 98%	35% - 98%	27% - 99%	24% - 99%	21% - 98%	18% - 99%	37% - 99%			
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Insta Group (Berker)	283010	60 - 400W	LE	9% - 96%	8% - 98%	flicker	flicker	flicker	flicker	flicker	15% - 99%	15% - 99%	flicker	8% - 99%	flicker		
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	29% - 96%	30% - 98%	1% - 100%	6% - 99%	16% - 99%	flicker	21% - 99%	18% - 99%	flicker	12% - 100%	9% - 99%			
	Legrand	067081	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Legrand	067082	40 - 600W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Legrand	067084	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Legrand (Bticino)	L4407	60 - 250W	TE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	60% - 100%	60% - 100%	flicker	flicker	flicker
	Schneider Electric	315GLE	20 - 315W	TE	47% - 99%	38% - 99%	flicker	flicker	25% - 99%	flicker	6% - 100%	5% - 99%	flicker	6% - 99%	1% - 100%			

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
<b>Yellow</b>	Transformer is compatible but will not work according Philips claimed specifications under all conditions
<b>Red</b>	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*



**Master LEDspot LV AR111  
GU53 15-75W**

		Transformer																				
		Philips									Varilight			OSRAM					Tridonic			
Brand	Model	Certaline 60	Certaline 105		Certaline 150		Primaline 70	Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER			
Wattage		20 - 60W	35 - 150W		50 - 150W		20 - 70W	35 - 105W		50 - 150W		0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W			
Quantity		1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp			
Mode		TE	TE		TE		LE & TE	LE & TE		LE & TE				LE & TE	LE & TE		LE & TE		LE & TE			
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	N.A.	35% - 99%	N.A.	flicker	38% - 99%	41% - 99%	flicker	N.A.	flicker	flicker	N.A.	41% - 99%	flicker	flicker	N.A.	39% - 99%	flicker	41% - 99%
	Gira	1176	50 - 420W	UNI	flicker	flicker	N.A.	flicker	flicker	flicker	flicker	N.A.	flicker	flicker	N.A.	34% - 99%	29% - 99%	33% - 99%	N.A.	flicker	flicker	38%-100%
	Merten (Schneider)	5771	20 - 315W	TE	N.A.	44%-100%	N.A.	47% - 99%	43%-100%	42% - 99%	42%-100%	N.A.	43%-100%	41%-100%	N.A.	39% - 99%	33% - 99%	29% - 99%	N.A.	42% - 99%	44%-100%	39% - 98%
	Insta Group (Berker)	283010	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	N.A.	flicker	flicker	N.A.	31%-100%	flicker	6%-100%	N.A.	flicker	10% - 99%	15% - 99%
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	27% - 99%	26% - 99%	N.A.	29%-100%	28% - 99%	N.A.	24%-100%	18% - 99%	11% - 99%	N.A.	6%-100%	15% - 99%	9% - 99%
	Schneider Electric	315GLE	20 - 315W	TE	N.A.	flicker	N.A.	41%-100%	37% - 99%	flicker	flicker	N.A.	55% - 99%	flicker	N.A.	46% - 99%	44% - 99%	47% - 99%	N.A.	flicker	46%-100%	43%-100%



**Master LEDspot LV AR111  
GU53 20-100W**

		Transformer																				
		Philips									Varilight			OSRAM					Tridonic			
Brand	Model	Certaline 60	Certaline 105		Certaline 150		Primaline 70	Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER			
Wattage		20 - 60W	35 - 105W		50 - 150W		20 - 70W	35 - 105W		50 - 150W		0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W			
Quantity		1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp			
Mode		TE	TE		TE		LE & TE	LE & TE		LE & TE				LE & TE	LE & TE		LE & TE		LE & TE			
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	N.A.	32% - 99%	N.A.	flicker	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.	N.A.	flicker	flicker	N.A.	37% - 99%	N.A.	N.A.
	Gira	1176	50 - 420W	UNI	flicker	flicker	N.A.	flicker	flicker	flicker	flicker	N.A.	flicker	N.A.	N.A.	32% - 99%	N.A.	flicker	N.A.	N.A.	N.A.	N.A.
	Merten (Schneider)	5771	20 - 315W	TE	N.A.	44%-100%	N.A.	47% - 99%	N.A.	N.A.	42%-100%	N.A.	43%-100%	N.A.	N.A.	29% - 99%	N.A.	43% - 99%	N.A.	N.A.	N.A.	N.A.
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Insta Group (Berker)	283010	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	N.A.	flicker	N.A.	N.A.	flicker	6% - 99%	N.A.	flicker	N.A.	N.A.	N.A.
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	26% - 99%	N.A.	26%-100%	N.A.	N.A.	13% - 99%	N.A.	5% - 99%	N.A.	N.A.	N.A.	N.A.
	Legrand	67081	40 - 300W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Legrand	67082	40 - 600W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	Legrand (Bticino)	L4407	60 - 250W	TE			N.A.					N.A.							N.A.	N.A.	N.A.	N.A.
	Schneider Electric	315GLE	20 - 315W	TE	N.A.	flicker	N.A.	39%-100%	N.A.	flicker	flicker	N.A.	53% - 99%	N.A.	N.A.	N.A.	43% - 99%	N.A.	flicker	N.A.	N.A.	N.A.



# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
<b>Yellow</b>	Transformer is compatible but will not work according Philips claimed specifications under all conditions
<b>Red</b>	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*



**Master LEDspot LV**  
6.5 - 35W MR16  
DimTone

Brand	Transformer																						
	Philips												Varilight		OSRAM						Tridonic		
	Model	Certaline 105			Certaline 150			Primaline 70	Primaline 105			Primaline 150			YT50	YT70	HTM 70	HTM 105			HTM 150		

Mode	TE	TE			TE	LE & TE	LE & TE			LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
------	----	----	--	--	----	---------	---------	--	--	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W
Vimar	14153	

TE	24%-98%	can't dim	19%-100%	17%-99%	15%-100%	16%-99%	17%-99%	16%-99%	18%-99%	16%-99%	15%-100%	16%-99%	17%-99%	18%-100%	20%-100%	17%-99%	13%-99%	14%-99%	14%-100%	16%-99%	13%-99%	15%-99%	17%-99%	21%-99%
UNI	18%-99%	can't dim	17%-99%	16%-99%	17%-99%	15%-99%	16%-99%	flicker	16%-99%	15%-99%	16%-99%	17%-99%	14%-100%	16%-99%	19%-100%	18%-99%	14%-100%	15%-99%	16%-99%	13%-98%	14%-99%	15%-99%	14%-98%	11%-100%
TE	41%-99%	can't dim	35%-100%	31%-99%	29%-99%	28%-100%	27%-99%	20%-99%	24%-99%	21%-98%	20%-99%	21%-98%	20%-99%	21%-99%	23%-99%	21%-99%	18%-99%	19%-99%	16%-99%	15%-99%	14%-99%	14%-98%	13%-98%	26%-99%
LE	flicker	can't dim	12%-99%	14%-99%	14%-99%	14%-98%	14%-99%	3%-99%	2%-99%	2%-100%	3%-99%	4%-99%	2%-100%	3%-99%	flicker	flicker	4%-99%	5%-99%	3%-99%	4%-99%	3%-99%	4%-99%	2%-99%	5%-99%
LE	flicker	can't dim	12%-100%	11%-100%	11%-99%	12%-99%	12%-100%	3%-99%	4%-99%	3%-99%	4%-98%	3%-99%	4%-99%	2%-100%	14%-100%	16%-99%	4%-100%	4%-99%	3%-100%	4%-98%	2%-98%	3%-99%	3%-98%	4%-99%
LE	19%-99%	can't dim	14%-99%	12%-99%	12%-99%	12%-100%	11%-99%	4%-99%	5%-100%	4%-99%	2%-100%	4%-99%	3%-99%	5%-100%	15%-100%	14%-100%	5%-99%	6%-99%	5%-99%	4%-99%	4%-98%	3%-99%	3%-99%	6%-100%
LE	flicker	can't dim	10%-99%	11%-100%	flicker	9%-99%	11%-99%	flicker	flicker	8%-99%	5%-99%	flicker	5%-99%	5%-99%	flicker	flicker	flicker	flicker	4%-99%	3%-99%	flicker	5%-99%	4%-100%	flicker
LE	flicker	can't dim	14%-99%	13%-99%	flicker	10%-99%	11%-100%	flicker	flicker	5%-99%	4%-98%	flicker	4%-99%	4%-99%	flicker	flicker	flicker	flicker	3%-99%	2%-99%	flicker	4%-99%	3%-99%	flicker
LE	flicker	can't dim	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	10%-100%	8%-99%	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
LE	flicker	can't dim	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
TE	flicker	can't dim	12%-99%	11%-99%	11%-99%	12%-100%	11%-98%	flicker	flicker	3%-99%	4%-98%	flicker	5%-99%	3%-99%	7%-100%	6%-99%	8%-99%	9%-99%	7%-99%	8%-99%	6%-99%	4%-98%	5%-99%	6%-98%
	2%-99%	can't dim	10%-99%	12%-99%	12%-99%	12%-98%	12%-99%	3%-100%	3%-99%	2%-99%	3%-100%	2%-99%	3%-99%	4%-98%	3%-99%	4%-99%	4%-99%	6%-99%	7%-100%	5%-99%	4%-99%	5%-99%	4%-99%	4%-99%



**Master LED ExpertColor**  
6.5 - 35W MR16



**Master LED ExpertColor**  
7.5 - 43W MR16

Brand	Transformer											
	Philips						Varilight		ELT	OSRAM		Tridonic
	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 105	HTM 150

Wattage	20 - 60W	50 - 150W	50 - 150W	20 - 70W	35 - 105W	50 - 150W	0 - 50W	0 - 70W		35 - 105W	50 - 150W	20 - 60W
---------	----------	-----------	-----------	----------	-----------	-----------	---------	---------	--	-----------	-----------	----------

Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp
----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

TE																								
UNI																								
TE																								
LE																								
LE																								
LE																								
LE																								
LE																								
LE																								
TE																								

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*



**Master LEDspot LV  
6.5 - 35W MR16**

**Master LEDspot LV  
7 - 35W MR16**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

Brand	Transformer											
	Philips						Varilight		OSRAM			Tridonic
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	HTM 150	VIPER
Wattage	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W
Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp

Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
TE												
UNI												
TE												
LE												
LE												
LE												
LE												
LE												
LE												
TE												



**Master LEDspot LV  
8 - 50W MR16**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

Brand	Transformer											
	Philips						Varilight		OSRAM			Tridonic
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	HTM 150	VIPER
Wattage	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W
Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp

Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
TE												
UNI												
TE												
LE												
LE												
LE												
LE												
LE												
LE												
LE												
TE												

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
<b>Yellow</b>	Transformer is compatible but will not work according Philips claimed specifications under all conditions
<b>Red</b>	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*



**Master LEDspot VLE D  
5.5 -35 MR16**

**Master LEDspot VLE D  
7 -50 MR16**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

		Transformer													
		Philips						Varilight			ELT	OSRAM			TRIDONIC
		Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 70	HTM 105	HTM 150	VIPER	
		Wattage	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	
		Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	
Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	
TE	50%-90%	50%-90%	60%-90%	40%-80%	50%-90%	50%-90%	40%-90%			40%-90%		40%-80%	40%-80%	40%-80%	
UNI	can't startup	60%-90%	min flicker	30%-90%	50%-90%	50%-90%	40%-90%			20%-90%		10%-90%	30%-90%	40%-80%	
TE	40%-80%	60%-90%	40%-80%	30%-90%	60%-90%	30%-90%	40%-90%			40%-90%		40%-80%	10%-90%	40%-90%	
LE	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%	10%-90%			flicker		20%-90%	20%-90%	20%-90%	
LE	Flicker	30%-90%	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%			flicker		10%-90%	10%-90%	10%-90%	
LE	30%-90%	40%-90%	20%-90%	20%-90%	30%-90%	30%-90%	30%-90%			20%-90%		10%-90%	10%-90%	10%-90%	
LE	flicker	30%-90%	20%-90%	flicker	20%-90%	20%-90%	20%-90%			20%-90%		10%-90%	10%-90%	10%-90%	
LE	flicker	30%-90%	20%-90%	flicker	20%-90%	20%-90%	20%-90%			20%-90%		flicker	20%-90%	10%-90%	
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker			flicker		flicker	flicker	flicker	
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker			flicker		flicker	flicker	flicker	
TE	can't dim	70%-90%	40%-90%	30%-90%	70%-90%	70%-90%	70%-90%			40%-90%		40%-90%	40%-90%	40%-90%	



**Master Value LEDspot LV  
MR16 6.3W (35W)**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	67081	40 - 300W
Legrand	67082	40 - 600W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

		Transformer																														
		Philips												Varilight			OSRAM						Tridonic									
		Certaline 60		Certaline 105			Certaline 150			Primaline 70		Primaline 105			Primaline 150			YT50	YT70Z	HTM 70	HTM 105			HTM 150			VIPER					
		Wattage		35 - 105W			50 - 150W			20 - 70W		35 - 105W			50 - 150W			0 - 50W	0 - 70W	20 - 70W	35 - 105W			50 - 150W			20 - 60W					
		Quantity		1 lamp	2 lamps	1 lamp	2 lamps	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	2 lamps	1 lamp	2 lamps	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	1 lamp	2 lamp	1 lamp	2 lamps	1 lamp	2 lamps	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	2 lamps
Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE		
TE	flicker	40%-90%	56%-99%	52%-99%	50%-99%	N.A.	N.A.	N.A.	40%-90%	40%-90%	40%-90%	40%-90%	30%-90%	30%-90%	30%-90%	40%-90%	40%-90%	40%-90%	40%-90%	43%-99%	43%-99%	42%-99%	42%-99%	20%-85%	20%-85%	20%-85%	40%-90%	40%-90%				
UNI	42-99%	40-99%	53%-100%	50%-100%	50%-100%	N.A.	N.A.	N.A.	53%-98%	53%-98%	can't start up	20%-90%	20%-90%	30%-90%	30%-90%	30%-90%	40%-90%	40%-90%	40%-90%	37%-99%	37%-99%	36%-99%	36%-99%	35%-90%	35%-90%	35%-90%	32%-99%	32%-99%				
TE	59%-99%	50%-99%	41-94%	40-95%	38-96%	N.A.	N.A.	N.A.	40%-95%	40%-95%	40%-95%	40%-95%	19%-98%	19%-98%	19%-98%	40%-100%	35%-90%	35%-90%	39%-98%	39%-98%	40%-99%	40%-99%	10%-80%	10%-80%	10%-80%	38%-99%	38%-99%					
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	40%-95%	flicker	5%-90%	5%-90%	5%-95%	5%-95%	10%-90%	10%-90%	10%-90%	flicker	10%-90%	10%-90%	flicker	10%-95%	40-81%	40-81%	10%-90%	10%-90%	5%-95%	5%-95%			
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker (-10% position)	5%-90%	flicker	5%-95%	5%-95%	10%-90%	10%-90%	10%-90%	flicker	10%-90%	flicker	10%-95%	40-81%	40-81%	10%-90%	10%-90%	10%-90%	24%-98%	24%-98%					
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	flicker	flicker	5%-95%				flicker	flicker	5%-95%	flicker	5%-95%	flicker	5%-95%	5%-95%	5%-95%	5%-95%	flicker	5%-95%				
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	flicker	flicker	5%-95%				flicker	flicker	5%-95%	flicker	5%-95%	flicker	5%-95%	5%-95%	5%-95%	5%-95%	flicker	5%-95%				
LE	can't start up	N.A.	can't dim	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.				flicker	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.	10%-90%	N.A.	N.A.	flicker	N.A.			
TE	flicker at max position	5%-65%	flicker	5%-93%	5%-95%	N.A.	N.A.	N.A.	flicker	5%-90%	flicker	5%-90%	5%-90%	10%-90%	10%-90%	10%-90%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	20%-85%	20%-85%	20%-85%	1%-100%	1%-100%			

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*



**Corepro LED capsule  
G4 LV DIM / 2 -20W**

		Transformer																
		Philips						Varilight		ELT	OSRAM			Tridonic				
Brand	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 70	HTM 105	HTM 150	VIPER				
Wattage		20 - 60W	35 - 105W	50 - 150W	20 - 70W	35 - 105W	50 - 150W	0 - 70W	20 - 70W		20 - 70W	35 - 105W	50 - 150W	20 - 60W				
Quantity		1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp				
Mode		TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE		LE & TE	LE & TE	LE & TE	LE & TE				
		pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass				
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	45%-90%	turn max flicker	50%-90%	45%-90%	turn max flicker	40%-90%	40%-90%	40%-90%	30%-90%	38%-100%	42%-99%	41%-99%	44%-99%	
	Gira	1176	50 - 420W	UNI	30%-90%	turn min flicker	can't startup	30%-90%	can't startup	turn min flicker	30%-90%	30%-90%	30%-90%	30%-90%	turn min flicker	turn min flicker	can't startup	30%-90%
	Merten (Schneider)	5771	20 - 315W	TE	40%-70%	40%-70%	50%-70%	40%-70%	flicker	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	30%-90%	40% flicker	30%-90%	flicker	flicker	flicker	30%-90%	30%-90%	flicker	40%-70%	40%-70%	flicker	flicker	
	Insta Group (Berker)	283010	60 - 400W	LE	20%-90%	turn min flicker	20%-90%	flicker	flicker	flicker	20%-90%	20%-90%	turn max flicker	10%-90%	10%-90%	can't startup	10%-90%	
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	50%-90%	50%-90%	50%-90%	max flicker	max flicker	50%-90%	50%-90%	50%-90%	turn min flicker	20%-90%	20%-90%	flicker	flicker	10%-90%
	Legrand	67081	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Legrand	067082	40 - 600W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Legrand	067084	40 - 300W	LE	can't dim	can't dim	turn min flicker	flicker	flicker	flicker	30%-90%	30%-90%	N.A.	20%-90%	20%-90%	flicker	flicker	30%-90%
	Legrand (Bticino)	L4407	60 - 250W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
Schneider Electric	315GLE	20 - 315W	TE	turn max flicker	turn max flicker	turn fast to max flicker	max flicker	max flicker	40%-70%	40%-70%	40%-70%	N.A.	40%-70%	40%-70%	flicker	flicker	40%-70%	

**Note:**  
Philips Low Voltage lamps are only compatible with electronic ballast.  
The compatibility is tested in a lab-environment. Real applications might give different performance.  
Suppliers of dimmers and/or electronic transformers can update their products without informing Philips. The compatibility can therefore be different from above.  
If your ET is not on the list: please consult your local Philips supplier.

Philips will not accept claims for any damage caused by implementing the recommendations in this document.

# Professional LED Low Voltage range



Recommended electronic transformer compatibility list for Low Voltage lamps  
For Non-dimmable systems only

**KEY**

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*

		LED spots								
		Master LED ExpertColor D 6.5 - 35W D 7.5 - 43W MR16	Master MR16 GU5.3 6.5-35W Dimtone	Master MR16 GU5.3 6.5 - 35W 7-35W D CR190	Master MR16 GU5.3 8-50W D	MasterValue MR16 GU5.3 3.4-20W D	Master Value MR16 GU5.3 6.3-35W D	Master LEDspot VLE D 5.5 - 35W MR16	Master LEDspot VLE D 7 - 50W MR16	
Brand / type	Watt	NEW						NEW	NEW	
<b>Transformer 50-70W</b>	OSRAM Halotronic HTM 70 (new type)	20-70	1	1-2	1-2	1	1-3	1-2	1	1
	Philips Certaline 60	20-60	1	2	1	1	1-3	1-2	1	1
	SEET STE 70VA 7429	20-70	1	1-2	1-2	1	1-3	1-2	1	1
	TRIDONIC SPEEDY TE-0050 C101	20-50	1	1	1	1	1-3	1	1	1
	TCI PICO WOLF 60	10-60		1-2			2-3			
	Vossloh Schwabe EST 60/12.635	10-60	1	1-2	1	1	2-3	2	1	1
	RELCO ICE60 PFS TH 60W	10-60	1	1-2	1-2	1	1-3	1-2	1	1
	RELCO MINI ICE RN1650 70W	20-70		2	1-2	1	1-3	2	1	1
	Varilight YT50L	0-50	1	1-2	1	1	1-2	1-2	1	1
	Varilight YT70L	0-70	1	1-2	1-2	1	1-3	1-2	1	1
	TRIDONIC SPEEDY TE-0070	20-70	1	1-2	1-2	1	1-3	2	1	1
	Vossloh Schwabe EST 70/12.380	20-70	1	1-2	1-2	1	1-3	1-2	1	1
	Radiant XE060/03	20-50	1		1	1	1-2	1-2	1	1
	OSRAM ET-P 60	20-60	1	1	1	1			1	1
<b>Transformer 105W</b>	Philips Primaline 105	35-105	1-2	1-3	1-3	1-2	2-5	1-3	1-2	1-2
	OSRAM Halotronic HTM 105	35-105	1-2	2-3	1-3	1-2	2-5	1-3	1-2	1-2
	Philips Certaline 105	35-105	1-2	2-3	1-3	1-2	2-5	1-3	1-2	1-2
	Tridonic speedy TE-0105 C101	35-105	2	2-3	2-3	2	2-5	2-3	2	2
	RELCO ICE 105 PFS TH	20-105	2	2-3	1-3		2-5	1-3	1-2	1-2
	Vossloh Schwabe EST 105	20-105	1-2	1-3	1-3	1-2	2-5	1-3	1-2	1-2
	Varilight YT105L	0-105	1-2	1-3	1-3	1-2	1-5	1-3	1-2	1-2
	IBL lighting UK 4106.00 105W	35-105	2	2-3	1-3	1-2	2-5	2-3	2	2
	TCI Pico Wolf 105	20-105	1-2	2-3	1-3	1-2	1-5	1-3	1-2	1-2
	GIRA tronic trafo	20-105	2	2-3	2-3	1-2	1-5	2-3	1-2	1-2
<b>Transformer 150-160W</b>	Philips Primaline 150	50-150W	1-3	2-4	2-4	1-3	3-8	2-4	1-3	1-3
	Philips certaline 150	50-150W	1-3	2-4	2-4	1-3	3-8	2-4	1-3	1-3
	Relco ICE 150	50-150W	3	3-4	2-4	3	3-8	3-4	1-3	1-3
	Relco ICE 160 PFS TH	100-160W		3-5	3-4	3	6-8	4-5	3	3
	TCI (DIAG) T150 (WX150)	30-150W	2-3	2-4	2-4	2-3	2-8	2-4	1-3	1-3
	OSRAM HTM 150	50-150W	2-3	2-4	2-4	2-3	3-8	2-4	2-3	2-3
	SEET HA-150 code 7431	50-150W	1-3	2-4	2-4	1-3	3-8	2-4	1-3	1-3
	Varilight YT150	0-150W	1-3	1-4	1-4	1-3	1-8	2-4	1-3	1-3
<b>Transformer 210-250W</b>	RELCO ICE 200 PFS TH	100-200	4	4-7	3-5	2-4	6-10	4-6	3-4	3-4
	SEET HA 210 code 7432	50-210	2-4	2-6	2-6	2-4	3-10	3-6	1-4	1-4
	TCI W210	50-210	2-4	3-6	3-6	2-4	3-10	3-6	3-4	3-4
	RELCO ICE 250 PFS TH	100-250	4-5		3-7			6	3-4	3-4
	VARILIGHT YT 250	0-250	1-5	3-7	1-7	1-5	1-10	1-7	1-5	1-5
	TCI W250	50-250	2-5	4-7	3-7	2-5	3-10	2-7	2-5	2-5

- Notes:**
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the transformers can be loaded with more lamps than is specified in this document (most transformers can be loaded with LED lamps to 20% of specified power)
  - #2) This list is based on measurements in a lab environment.
  - #3) Transformer manufacturers may change the technical design of the transformer without informing LED lamp suppliers. These changes can influence the performance of LED products.
  - #4) Magnetic transformers are not compatible

If your Electronic Transformer is not on the list: please consult your local Philips supplier for guidance

**Disclaimer:**  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.



# Professional LED Low Voltage range

Recommended electronic transformer compatibility list for Low Voltage lamps  
For Non-dimmable systems only



**KEY**

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions*

		LED spots					LED capsule				
		Master AR111 GU53 11-50W D	Master AR111 GU53 15-75W D	Master AR111 GU53 20-100W D	Master MR11 2.6-20W ND	Corepro MR16 GU5,3 3 - 20W ND	Corepro MR16 GU5,3 5 - 35W ND	Corepro MR16 GU5,3 8 - 50W ND	Corepro G4 1.2 - 10W ND	Corepro G4 2 - 20W ND	
Brand / type	Watt				NEW	NEW	NEW	NEW			
<b>Transformer 50-70W</b>	OSRAM Halotronic HTM 70 (new type)	20-70	1	1	N.A.	1-3	1-3	1-2	1	4-10	2-7
	Philips Certaline 60	20-60	1	N.A.	N.A.	1-3	1-3	1-2	1	2-6	2-6
	SEET STE 70VA 7429	20-70	1	1	N.A.	1-3	1-3	1-2	1	4-10	2-7
	TRIDONIC SPEEDY TE-0050 C101	20-50	1	N.A.	N.A.	1-2		2			
	TCI PICO WOLF 60	10-60	1	N.A.	N.A.	2-3					
	Vossloh Schwabe EST 60/12.635	10-60	1	N.A.	N.A.	1-3	1-3	1-2			
	RELCO ICE60 PFS TH 60W	10-60	1	N.A.	N.A.	1-3	1-3	1-2	1	2-10	1-6
	RELCO MINI ICE RN1650 70W	20-70	1	1	N.A.	1-3					2-7
	Varilight YT50L	0-50	1	N.A.	N.A.	1-2	1-2	1	1	1-8	3-5
	Varilight YT70L	0-70	1	1	N.A.	1-3	1-3	1-2	1	1-10	2-5
	TRIDONIC SPEEDY TE-0070	20-70	1		N.A.	2-3					
	Vossloh Schwabe EST 70/12.380	20-70	1	1	N.A.	1-3	1-3	1-2	1		2-7
	Radiant XE060/03	20-50	1	N.A.	N.A.	1	1-2	1	1	4-8	4-6
	OSRAM ET-P 60	20-60	1	N.A.	N.A.	2-3	1-3	1	1		
<b>Transformer 105W</b>	Philips Primaline 105	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	OSRAM Halotronic HTM 105	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	Philips Certaline 105	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	Tridonic speedy TE-0105 C101	35-105	2			2-5	2-5	1-3	2		
	RELCO ICE 105 PFS TH	20-105	1-2	1	1	2-5		1-3			
	Vossloh Schwabe EST 105	20-105	1-2	1	1	2-5	1-5	1-3	1-2	4-10	2-10
	Varilight YT105L	0-105	1-2	1	1	2-5	1-5	1-3	1-2	1-10	2-10
	IBL lighting UK 4106.00 105W	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	TCI Pico Wolf 105	20-105	1-2	1	1	2-5	2-5	1-3	1-2	4-10	2-10
	GIRA tronic trafo	20-105	1-2	1	1	2-5		1-3	1-2		2-10
<b>Transformer 150-160W</b>	Philips Primaline 150	50-150W	1-2	1-2	1	3-7	3-7	2-4	1-3	9-10	5-10
	Philips certaline 150	50-150W	1-2	1-2	1	3-7	3-7	2-4	2-3	9-10	
	Relco ICE 150	50-150W	1-2	2		3-7	3-7	2-4		9-10	5-10
	Relco ICE 160 PFS TH	100-160W	1-2	2		5-7					
	TCI (DIAG) T150 (WX150)	30-150W	1-2	1-2	1	2-7	2-7	1-4	2-3	5-10	5-10
	OSRAM HTM 150	50-150W	1-2	1-2	1	3-7	3-7	3-4	1-3	9-10	
	SEET HA-150 code 7431	50-150W	1-3	1-2	1	3-7	4-7	2-4		9-10	6-10
	Varilight YT150	0-150W	1-3	1-2	1	1-7	1-7	1-4	1-3	1-10	1-10
<b>Transformer 210-250W</b>	RELCO ICE 200 PFS TH	100-200	2-4	2	2	5-10					
	SEET HA 210 code 7432	50-210	1-4	2	1-2	3-10				9-10	
	TCI W210	50-210	2-4	2	1-2	3-10	5-10	2-6			
	RELCO ICE 250 PFS TH	100-250	3-5			5-10					
	VARILIGHT YT 250	0-250	1-5	1-3	1-2	1-10	1-10	1-7	1-5	5-10	1-10
	TCI W250	50-250	2-5	2-3	1-2	3-10	3-10	2-7			

- Notes:**
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the transformers can be loaded with more lamps than is specified in this document (most transformers can be loaded with LED lamps to 20% of specified power)
  - #2) This list is based on measurements in a lab environment.
  - #3) Transformer manufacturers may change the technical design of the transformer without informing LED lamp suppliers. These changes can influence the performance of LED products.
  - #4) Magnetic transformers are not compatible.

If your Electronic Transformer is not on the list: please consult your local Philips supplier for guidance

**Disclaimer:**  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.



© Philips Lighting Holding B.V. 2017. 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.

09/2017  
Data subject to change.

[www.philips.com/led-product-info](http://www.philips.com/led-product-info)  
[www.lighting.philips.com/main/support/purchase/installer](http://www.lighting.philips.com/main/support/purchase/installer)

# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Master LEDexpertcolor MV D 3.9-35W GU10 CRI97			Master LEDexpertcolor MV D 5.5-50W GU10 CRI97			Master LEDspot classic MV DimTone 4.5-35W GU10			Master LEDspot classic MV DimTone 5-50W GU10		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	2-5 (max 18)	88%-7%		2-5 (max 9)	91%-5%		2-18	92%-7%		2-13	92%-6%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	2-5 (max 20)	93%-6%		2-3	95%-5%		2-18	93%-5%		2-15	94%-4%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.					N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	2-5 (max 20)	83%-17%		2-5 (max 14)	94%-17%		2-18	92%-6%		2-15	96%-5%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	2-5 (max 20)	95%-3%		2-5 (max 14)	95%-3%		2-20	92%-3%		2-18	96%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	2-5 (max 25)	93%-3%		2-5 (max 18)	96%-3%		2-20	91%-3%		2-20	97%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-5 (max 21)	92%-4%		2-5 (max 15)	94%-6%		2-19	95%-6%		2-15	96%-6%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-5 (max 25)	92%-4%		2-5 (max 18)	91%-3%		2-20	89%-3%		2-18	93%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-19	92%-3%					2-20	96%-4%		2-18	97%-6%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-5 (max 10)	89%-11%		2-5 (max 7)	90%-8%		2-18	91%-7%		2-15	97%-4%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	2-5 (max 16)	88%-3%		2-5 (max 11)	91%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	2-5 (max 21)	94%-3%		2-5 (max 15)	96%-3%		2-19	93%-3%		T.B.D.	T.B.D.	T.B.D.
Eltako	EVD6INPN-UC		400W 3-wire Push Module							2-18	98%-3%		2-15	98%-4%	< 16
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-5 (max 10)	89%-11%		2-5 (max 7)	90%-8%		2-18	91%-7%		2-15	97%-4%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	2-5 (max 16)	88%-3%		2-5 (max 11)	91%-3%							
Feller  Schneider	40420 (SBD420)	[RLC]	420W	2-5 (max 21)	94%-3%		2-5 (max 15)	96%-3%							
GIRA	1176-00/01	[RLC]	50 – 420W	2-19	91%-12%					2-19	96%-10%		2-15	95%-8%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	2-5 (max 25)	86%-24%		2-5 (max 18)	91%-25%		2-15	96%-6%		2-16	91%-4%	
Hager	EVN 011	[RC]	300VA	2-15	96%-10%					2-13	98%-3%	< 12	2-11	98%-5%	< 12
Hager	EVN 012	[RC]	300W	2-15	96%-9%					2-13	98%-4%	< 12	2-11	97%-5%	< 12
Hager	EVN 004	[RL]	500VA	2-19	96%-10%					2-20	98%-3%		2-18	97%-5%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-5 (max 26)	91%-3%		2-5 (max 19)	93%-11%		2-20	92%-7%		2-16	93%-7%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	2-5 (max 25)	89%-3%		2-5 (max 18)	92%-3%		2-20	89%-11%		2-16	91%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	3-6	72%-17%					2-5	88%-3%			N.A.	N.A.
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer	2-15	89%-3%					2-13	90%-3%		2-11	91%-4%	
Legrand	774161	[RL]	40 – 400 W-Turn	5	95%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	2-19	91%-1%					2-18	78%-3%	< 3	2-15	95%-3%	< 3
Legrand	67081	[RL]	40 – 400 W-Turn	3-5 (max 20)	93%-3%		2-5 (max 14)	96%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn	5	95%-5%		3-5 (max 14)	96%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W	3-4	86%-3%					2-3	90%-1%			N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 15)	93%-3%		2-5 (max 10)	93%-3%		2-18	94%-4%			N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 15)	97%-3%		2-5 (max 10)	98%-3%			N.A.	N.A.	2-11	98%-3%	
Legrand	L4402N	[R]	60 – 500W	3-19	86%-11%					10-20	88%-4%		5-18	88%-7%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-5 (max 10)	89%-11%		2-5 (max 7)	90%-8%		2-18	91%-7%		2-15	97%-4%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-5 (max 16)	88%-3%		2-5 (max 11)	91%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-5 (max 21)	94%-3%		2-5 (max 15)	96%-3%		2-19	93%-3%		T.B.D.	T.B.D.	T.B.D.
MK-Electric	K1535	[R]	65 – 450 W-Turn	2-5 (max 23)	71%-3%		2-5 (max 16)	80%-4%		2-20	83%-4%		2-16	84%-5%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	2-5 (max 25)	77%-3%		2-5 (max 18)	87%-3%		2-20	88%-4%		2-16	89%-5%	
MK-Electric	K4501 WHILV	[RLC]	180W	2-11	84%-3%					2-10	90%-2%		2-9	90%-4%	
MK-Electric	K4500 WHILV	[RLC]	400W	2-16	86%-3%					2-14	89%-2%		2-15	89%-4%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	96%-3%					2-4	97%-3%		2-4	99%-2%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-6	80%-3%					2-5	90%-3%		2-4	88%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-5 (max 25)	92%-4%		2-5 (max 18)	91%-3%		2-20	89%-3%		2-18	93%-3%	
RELCO	RP0977	[LED]	4-100W	2-5	96%-16%										
RELCO	RMO545	[LED]	4-100W	2-5	88%-3%										
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-5 (max 16)	88%-3%		2-5 (max 11)	91%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	2-5 (max 16)	88%-3%		2-5 (max 11)	91%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	2-5 (max 10)	89%-11%		2-5 (max 7)	90%-8%		2-18	91%-7%		2-15	97%-4%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-5 (max 16)	88%-3%		2-5 (max 11)	91%-3%		2-14	92%-3%		2-11	92%-3%	
VADSBO	ED 350	[RC]	50 – 350W	2-18	86%-10%					2-16	92%-6%		2-13	91%-8%	
VADSBO	DRS 315	[RC]	50 – 315W	2-16	92%-5%					8-14	95%-4%	< 15	3-11	93%-6%	< 12
VADSBO	DU 250	[RC]	20 – 250W	2-13	70%-3%					2-11	89%-3%	< 12	2-9	85%-3%	< 10
Varilight	HQ3W	[R]	60-400W	2-5 (max 20)	91%-3%		2-5 (max 14)	92%-3%		3-18	91%-3%		2-15	96%-3%	
Varilight	ICT401 M	[RC]	20-400W	2-19	75%-3%					2-18	95%-1%		2-15	93%-2%	
Vimar	20148	[RL]	500W	2-5 (max 25)	93%-3%	< 6	2-5 (max 18)	94%-3%	< 5	2-20	93%-4%	< 4	2-16	95%-4%	< 17
Vimar	14153	[R]		2-19	99%-3%					2-20	98%-3%		2-18	99%-3%	
Vimar	20160	[RC]		2-15	90%-3%					2-13	94%-1%	< 14	2-18	96%-3%	< 17
Vimar	20162	[RL]	40 – 300W	2-5 (max 15)	91%-3%	< 6	2-5 (max 10)	90%-3%	< 6	2-13	91%-3%	< 10	2-11	90%-4%	< 12
Philips Dynalite	DDLE801		(100W per channel)	2-5	79%-3%		2-5	90%-3%					5-16	92%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	2-5 (max 20)	87%-3%		2-5 (max 16)	90%-3%					2-16	92%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)



# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Classic LEDspot MV 4.4-50W GU10			Classic LEDspot MV 5.5-50W GU10			Master LEDspot VLE DimTone D 3.7-35W GU10 CRI90			Master LEDspot VLE DimTone D 4.9-50W GU10 CRI90		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	2-20	91%-25%		2-15	85%-19%		2-8 (max 19)	94%-8%		2-8 (max 14)	92%-3%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	2-20	95%-24%		2-15	88%-19%		2-8 (max 21)	87%-3%		2-8 (max 16)	93%-3%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	2-18	93%-19%		2-15	89%-17%		2-8 (max 21)	86%-4%		2-8 (max 16)	92%-3%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	2-20	93%-10%		2-18	97%-6%		2-8 (max 21)	86%-3%		2-8 (max 16)	94%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	2-20	96%-7%		2-20	98%-4%		2-8 (max 27)	89%-3%		2-8 (max 20)	94%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-20	94%-23%		2-15	87%-20%		2-8 (max 22)	86%-4%		2-8 (max 17)	94%-3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-20	90%-2%		2-20	93%-17%		2-8 (max 27)	89%-3%		2-8 (max 20)	89%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	96%-24%		2-18	96%-18%		2-20	95%-6%		2-20	91%-5%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	2-19	94%-14%		2-15	97%-13%			N.A.	N.A.	3-8 (max 17)	95%-3%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	2-14	99%-15%	< 19	2-15	99%-14%	< 16	2-20	94%-10%		2-16	96%-3%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W							3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
Feller  Schneider	40420 (SBD420)	[RLC]	420W								N.A.	N.A.	3-8 (max 17)	95%-3%	
GIRA	1176-00/01	[RLC]	50 – 420W	2-19	94%-36%		2-15	95%-32%		2-20	94%-11%		2-17	94%-9%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	2-13	97%-13%		2-18	90%-14%		3-8 (max 27)	90%-3%		3-8 (max 20)	91%-3%	
Hager	EVN 011	[RC]	300VA	2-14	97%-19%	< 6	2-11	97%-16%	< 12	2-16	98%-8%		2-12	94%-7%	
Hager	EVN 012	[RC]	300W	2-14	98%-19%	< 5	2-11	97%-16%	< 12	2-16	98%-8%		2-12	94%-7%	
Hager	EVN 004	[RL]	500VA	2-20	98%-19%		2-18	97%-16%		2-20	98%-8%		2-20	95%-7%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-20	92%-26%		2-15	87%-22%		2-8 (max 28)	96%-8%		2-8 (max 21)	91%-3%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	2-20	93%-37%		2-20	88%-35%		2-8 (max 27)	91%-3%		2-8 (max 20)	91%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	2-5	88%-3%		2-4	87%-37%		2-6	84%-11%		2-5	80%-11%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	2-14	93%-3%			N.A.	N.A.	2-16	99%-3%		2-12	87%-3%	
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-8 (max 16)	95%-3%	< 4
Legrand	78401	[RLC]	40 – 500W	2-18	96%-3%	< 3	2-15	92%-16%	< 3	2-20	93%-4%		2-16	91%-3%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 16)	95%-3%	
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 24)	94%-3%	
Legrand	67083	[RLC]	3 – 400W	2-3	89%-12%			N.A.	N.A.	2-20	89%-3%		2-16	85%-2%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-18	98%-20%		2-15	88%-15%		2-8 (max 16)	96%-4%	< 3	2-8 (max 12)	93%-3%	< 4
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)		N.A.	N.A.	2-11	99%-3%		2-8 (max 16)	99%-3%		2-8 (max 12)	95%-3%	
Legrand	L4402N	[R]	60 – 500W	8-20	91%-30%		3-18	86%-28%		3-20	87%-10%		2-20	84%-8%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-19	94%-14%		2-15	97%-13%			N.A.	N.A.	3-8 (max 17)	95%-3%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	3-20	85%-20%		2-15	77%-15%		2-8 (max 24)	52%-3%		2-8 (max 18)	70%-3%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	3-20	89%-19%		2-18	81%-17%		2-8 (max 27)	80%-3%		2-8 (max 20)	87%-3%	
MK-Electric	K4501 WHILV	[RLC]	180W	3-10	89%-19%		2-8	90%-19%		2-12	86%-4%		2-9	86%-4%	
MK-Electric	K4500 WHILV	[RLC]	400W	3-15	90%-20%		2-15	88%-19%		2-20	86%-5%		2-13	86%-4%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	97%-8%		2-4	97%-7%		2-5	99%-3%		2-4	95%-3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-5	89%-10%		2-4	87%-10%		2-6	85%-3%		2-5	84%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-20	90%-3%		2-20	93%-17%		2-8 (max 27)	89%-3%		2-8 (max 20)	89%-3%	
RELCO	RPO977	[LED]	4-100W							2-5	99%-13%		2-4	75%-11%	
RELCO	RMO545	[LED]	4-100W							2-5	90%-10%		2-4	87%-4%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
VADSBO	ED 350	[RC]	50 – 350W	2-16	93%-34%		2-13	88%-29%		2-20	88%-10%		2-14	85%-8%	
VADSBO	DRS 315	[RC]	50 – 315W	8-14	95%-24%	< 15	3-11	97%-21%	< 12	3-17	93%-6%		2-13	90%-5%	
VADSBO	DU 250	[RC]	20 – 250W	2-11	89%-11%	< 12	2-9	89%-9%	< 10	2-14	84%-3%	< 15	2-10	77%-3%	< 11
Varilight	HQ3W	[R]	60-400W	2-18	98%-14%		2-15	88%-8%		2-8 (max 21)	85%-3%		2-8 (max 16)	92%-3%	
Varilight	ICT401 M	[RC]	20-400W	2-18	94%-10%		2-15	92%-7%		2-20	84%-3%		2-16	79%-3%	
Vimar	20148	[RL]	500W	2-20	94%-17%		2-18	88%-16%	< 4	2-8 (max 27)	87%-3%	< 8	3-8 (max 20)	92%-3%	< 9
Vimar	14153	[R]		2-20	98%-3%		2-18	97%-9%		2-20	99%-3%		2-20	97%-3%	
Vimar	20160	[RC]		2-14	94%-13%	< 15	2-18	94%-12%	< 19	2-20	86%-5%		2-12	89%-3%	< 13
Vimar	20162	[RL]	40 – 300W	3-13	93%-14%		2-11	84%-11%	< 4	2-8 (max 16)	94%-4%	< 8	2-8 (max 12)	92%-3%	< 9
Philips Dynalite	DDLE801		(100W per channel)	T.B.D.	T.B.D.	T.B.D.	2-18	88%-9%		2-8	90%-3%		2-8	89%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	T.B.D.	T.B.D.	T.B.D.	2-16	90%-3%		2-8 (max 24)	94%-3%		2-8 (max 18)	89%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)





# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Master LEDspot VLE Dim D 3.7-35W GU10 CRI90			Master LEDspot VLE Dim D 4.9-50W GU10 CRI90			"MAS LED spot VLE Dim D 7-80W GU10			Master LEDspot MV Value 3.5-35W GU10		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	2-5 (max 19)	96%-31%		2-5 (max 14)	93%-26%		2-5	89%-20%		2-21	92%-22%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	2-5 (max 21)	88%-16%		2-5 (max 16)	98%-23%		2-5	93%-20%		2-23	95%-14%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.					N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	3-5 (max 21)	88%-31%		2-5 (max 16)	92%-34%		2-5	91%-17%		2-23	95%-17%	< 2
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	2-5 (max 21)	87%-6%		2-5 (max 16)	95%-9%		2-5	93%-7%		2-29	95%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	2-5 (max 27)	91%-4%		2-5 (max 20)	98%-5%		2-5	95%-4%		2-34	95%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-5 (max 22)	98%-23%		2-5 (max 17)	96%-21%		2-5	92%-18%		2-24	96%-22%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-5 (max 27)	90%-3%		2-5 (max 20)	93%-3%		2-5	88%-3%		2-20	90%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	92%-17%	< 5	2-20	95%-16%					2-20	87%-33%	< 3
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)		N.A.	N.A.	2-5	93%-28%		2-5	90%-24%		2-23	91%-23%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	3-5 (max 17)	96%-9%		2-5 (max 12)	94%-7%		2-5	89%-4%		2-18	94%-5%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.	2-5 (max 17)	97%-15%		2-5	95%-12%			N.A.	N.A.
Eltako	EVD6INPN-UC		400W 3-wire Push Module	2-20	98%-11%		2-16	99%-10%					T.B.D.	T.B.D.	T.B.D.
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)		N.A.	N.A.	2-5	93%-28%		2-5	90%-24%		2-23	91%-23%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	3-5 (max 17)	96%-9%		2-5 (max 12)	94%-7%		2-5	89%-4%				
Feller  Schneider	40420 (SBD420)	[RLC]	420W		N.A.	N.A.	2-5 (max 17)	97%-15%		2-5	95%-12%				
GIRA	1176-00/01	[RLC]	50 – 420W	2-20	90%-29%	< 9	2-17	93%-27%					2-20	96%-31%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	3-8 (max 27)	91%-15%	< 3	2-5 (max 20)	91%-14%		2-5	88%-36%		2-29	91%-10%	< 2
Hager	EVN 011	[RC]	300VA	2-16	96%-22%	< 10	2-12	98%-21%					2-17	96%-13%	< 3
Hager	EVN 012	[RC]	300W	2-16	96%-22%	< 11	2-12	97%-21%					2-17	98%-13%	< 3
Hager	EVN 004	[RL]	500VA	2-20	95%-22%	< 11	2-20	99%-21%					2-20	98%-16%	< 19
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-5 (max 28)	94%-33%		2-5 (max 21)	93%-28%		2-5	89%-19%		2-30	94%-25%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	2-5 (max 27)	89%-13%		2-5 (max 20)	93%-13%		2-5	88%-11%		2-29	91%-38%	< 2
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W		82%-30%	< 7	2-5	84%-32%					2-7	84%-29%	< 3
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer		89%-14%	< 7		90%-14%					T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.	2-5	94%-17%			N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	2-20	91%-14%		2-16	93%-11%	< 3				2-20	93%-13%	< 5
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.	2-5	93%-15%			N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.	2-5	95%-17%			N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W		83%-11%			96%-10%							N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 16)	96%-22%	< 5	2-5 (max 12)	95%-18%	< 3	2-5	93%-13%		2-23	90%-6%	< 4
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 16)	97%-3%		2-5 (max 12)	98%-3%		2-5	97%-3%		2-17	97%-3%	
Legrand	L4402N	[R]	60 – 500W	5-20	88%-28%		2-20	93%-28%					10-20	84%-24%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)		N.A.	N.A.	2-5	93%-28%		2-5	90%-24%		2-23	91%-23%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-5 (max 17)	96%-9%		2-5 (max 12)	94%-7%		2-5	89%-4%		2-18	94%-5%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA		N.A.	N.A.	2-5 (max 17)	97%-15%		2-5	95%-12%			N.A.	N.A.
MK-Electric	K1535	[R]	65 – 450 W-Turn	2-8 (max 24)	71%-15%		2-8 (max 18)	85%-19%		2-5	81%-17%		2-26	83%-12%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	2-8 (max 27)	79%-17%		2-8 (max 20)	91%-18%		2-5	86%-15%		2-10	88%-14%	
MK-Electric	K4501 WHILV	[RLC]	180W	2-12	85%-15%		2-9	86%-15%					3-13	87%-13%	
MK-Electric	K4500 WHILV	[RLC]	400W	2-17	87%-15%		2-13	87%-15%						87%-13%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	96%-6%		2-4	96%-5%					2-6	98%-24%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-6	84%-6%		2-5	86%-7%					2-7	87%-31%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-5 (max 27)	90%-3%		2-5 (max 20)	93%-3%		2-5	88%-3%		2-20	90%-3%	
RELCO	RPO977	[LED]	4-100W	2-5	97%-32%		2-4	97%-29%							
RELCO	RMO545	[LED]	4-100W	2-5	88%-15%		2-4	89%-14%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	3-5 (max 17)	96%-9%		2-5 (max 12)	94%-7%		2-5	89%-4%		2-18	94%-5%	
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	3-5 (max 17)	96%-9%		2-5 (max 12)	94%-7%		2-5	89%-4%		2-18	94%-5%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)		N.A.	N.A.	2-5	93%-28%		2-5	90%-24%		2-23	91%-23%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-5 (max 17)	96%-9%		2-5 (max 12)	94%-7%		2-5	89%-4%		2-18	94%-5%	
VADSBO	ED 350	[RC]	50 – 350W	2-19	89%-29%		2-14	87%-25%					2-20	91%-29%	
VADSBO	DRS 315	[RC]	50 – 315W	3-17	92%-18%	< 18	2-13	93%-17%	< 14				10-18	93%-20%	
VADSBO	DU 250	[RC]	20 – 250W	3-14	83%-9%	< 15	2-10	83%-7%	< 11				2-14	89%-20%	
Varilight	HQ3W	[R]	60-400W	2-5 (max 21)	84%-8%		2-5 (max 16)	97%-11%		2-5	91%-10%		2-23	92%-8%	
Varilight	ICT401 M	[RC]	20-400W	2-20	83%-3%	< 7	2-16	84%-3%					T.B.D.	T.B.D.	T.B.D.
Vimar	20148	[RL]	500W	3-8 (max 27)	85%-17%	< 6	3-5 (max 20)	95%-17%	< 6	2-5	93%-14%	< 6	2-29	95%-16%	< 30
Vimar	14153	[R]			97%-4%			99%-3%						98%-3%	
Vimar	20160	[RC]		3-16	91%-11%	< 17	2-12	96%-9%	< 13				2-17	91%-9%	
Vimar	20162	[RL]	40 – 300W	3-8 (max 16)	92%-25%	< 6	2-5 (max 12)	94%-18%	< 6	2-5	90%-13%	< 6	2-17	91%-13%	< 18
Philips Dynalite	DDLE801		(100W per channel)	2-8	88%-8%		2-8	93%-9%		2-5	88%-8%		2-20	91%-9%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	2-8 (max 24)	92%-3%		2-8 (max 18)	95%-5%		2-5	90%-4%		2-20	93%-4%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)





# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Master LEDspot MV Value 5-50W GU10			Master LEDspot MV 4-35W GU10 CRI90			Master LEDspot MV 5.4-50W GU10 CRI90			Corepro LEDspot MV 4-35W GU10 Dim		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	2-10	90%–20%		2-18	91%–3%		2-13	93%–3%		2-8	94%–8%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	2-10	94%–8%		2-20	93%–3%		2-15	96%–3%		2-8	87%–3%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	2-10	94%–16%	< 2	2-20	92%–3%		2-15	97%–3%		2-8	86%–4%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	2-10	92%–3%		2-25	93%–3%		2-19	97%–3%		2-8	86%–3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	2-10	92%–3%		2-30	95%–3%		2-22	98%–3%		2-8	89%–3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-10	96%–20%		2-21	94%–3%			N.A.		2-8	96%–4%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-10	92%–3%		2-20	90%–3%		2-19	92%–3%		2-8	89%–3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	89%–29%		2-20	89%–3%		2-19	88%–9%		2-20	93%–3%	
ELKO   Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-10	88%–20%		2-20	90%–3%		2-15	93%–3%			N.A.	N.A.
ELKO   Schneider	SBD315RC (315 GLE)	[RC]	315W	2-10	88%–3%		2-16	90%–3%		2-12	89%–3%		3-8	95%–3%	
ELKO   Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Eltako	EVD6INPN-UC		400W 3-wire Push Module	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-20	99%–3%	
Feller   Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-10	88%–20%		2-20	90%–3%		2-15	93%–3%			N.A.	N.A.
Feller   Schneider	40300 (SBD315)	[RLC]	300W										3-8	95%–3%	
Feller   Schneider	40420 (SBD420)	[RLC]	420W											N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 – 420W	2-20	94%–27%		2-20	93%–3%		2-16	91%–3%		2-20	93%–3%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	2-10	92%–8%		2-25	90%–3%		2-19	94%–3%		2-8	91%–3%	
Hager	EVN 011	[RC]	300VA	2-14	98%–13%	< 2	2-15	93%–3%		2-11	97%–3%		2-17	98%–5%	
Hager	EVN 012	[RC]	300W	2-14	98%–13%	< 7	2-15	93%–3%		2-11	97%–3%		2-17	98%–5%	
Hager	EVN 004	[RL]	500VA	2-20	98%–13%	< 8	2-20	93%–3%		2-19	97%–3%		2-17	98%–5%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-10	92%–24%		2-26	92%–3%		2-19	95%–3%		2-8	96%–8%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	2-10	92%–36%		2-25	90%–3%		2-19	95%–18%		2-8	91%–3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	2-6	81%–28%	< 7	2-6	86%–3%		2-4	85%–3%		2-7	83%–7%	< 3
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-17	80%–3%	
Legrand	774161	[RL]	40 – 400 W-Turn	3-10	92%–8%	< 4		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	2-19	93%–13%		2-20	89%–3%		2-15	91%–3%		2-20	95%–3%	
Legrand	67081	[RL]	40 – 400 W-Turn	3-10	96%–16%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W		89%–10%			89%–3%			89%–3%		2-20	84%–3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-10	88%–3%	< 5		N.A.	N.A.		N.A.	N.A.	2-8	96%–4%	< 3
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-10	96%–3%		2-15	98%–3%			N.A.		2-8	99%–3%	
Legrand	L4402N	[R]	60 – 500W	5-20	83%–25%		4-20	82%–3%			85%–3%			N.A.	N.A.
Merten   Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-10	88%–20%		2-20	90%–3%		2-15	93%–3%			N.A.	N.A.
Merten   Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-10	88%–3%		2-16	90%–3%		2-12	89%–3%		3-8	95%–3%	
Merten   Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
MK-Electric	K1535	[R]	65 – 450 W-Turn	2-10	80%–14%		2-23	80%–3%		2-17	83%–3%			N.A.	N.A.
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	2-10	86%–14%		2-25	86%–3%		2-19	90%–3%		2-8	80%–3%	
MK-Electric	K4501 WHILV	[RLC]	180W	2-10	85%–13%		2-11	86%–3%		2-18	85%–3%		2-13	78%–3%	
MK-Electric	K4500 WHILV	[RLC]	400W	2-15	85%–13%		2-16	86%–3%		2-12	85%–3%		2-20	77%–3%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	97%–23%		2-5	89%–3%		2-5	97%–3%		2-6	98%–3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-6	85%–29%		2-10	82%–3%		2-4	88%–6%		2-3	76%–3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-10	92%–3%		2-20	90%–3%		2-19	92%–3%		2-8	89%–3%	
RELCO	RPO977	[LED]	4-100W										2-6	97%–9%	
RELCO	RMO545	[LED]	4-100W										2-6	94%–3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-10	88%–3%		2-16	90%–3%		2-12	89%–3%		3-8	95%–3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	2-10	88%–3%		2-16	90%–3%		2-12	89%–3%		3-8	95%–3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	2-10	88%–20%		2-20	90%–3%		2-15	93%–3%			N.A.	N.A.
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-10	88%–3%		2-16	90%–3%		2-12	89%–3%		3-8	95%–3%	
VADSBO	ED 350	[RC]	50 – 350W	2-15	88%–27%		2-18	86%–3%		2-13	88%–3%		2-20	90%–7%	
VADSBO	DRS 315	[RC]	50 – 315W	2-15	93%–17%	< 11	6-16	93%–3%		2-12	94%–3%			N.A.	N.A.
VADSBO	DU 250	[RC]	20 – 250W	2-12	83%–8%	< 11	2-13	86%–3%		2-9	85%–3%		2-14	91%–3%	
Varilight	HQ3W	[R]	60-400W	2-10	92%–6%		2-20	92%–3%		2-15	97%–3%		2-8	85%–3%	
Varilight	ICT401 M	[RC]	20-400W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-20	84%–3%	
Vimar	20148	[RL]	500W	3-10	92%–8%	< 11	3-25	93%–3%		2-19	94%–3%		2-8	87%–3%	< 9
Vimar	14153	[R]		2-20	98%–3%		2-20	93%–3%		2-19	97%–3%		2-8	97%–3%	
Vimar	20160	[RC]		2-14	92%–8%	< 11	2-15	89%–3%		2-11	94%–3%		2-20	83%–3%	< 9
Vimar	20162	[RL]	40 – 300W	2-10	88%–8%	< 11	2-15	90%–3%		2-11	92%–3%		2-8	94%–4%	< 9
Philips Dynalite	DDLE801		(100W per channel)	2-20	88%–8%		2-20	93%–3%		2-19	88%–3%		2-8	90%–3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	2-20	97%–4%		2-20	93%–3%		2-17	91%–3%		2-8	94%–3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)



# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Corepro LEDspot MV 5-50W GU10 Dim			Master LEDspot MV 5.5W-50W PAR20			Master LEDspot Classic D 6-50W PAR20			Master LEDspot MV 8.5W-75W PAR30S		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	2-8	92%-3%		3-13	86%-3%		1-10	91%-12%		1-8	92%-9%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	2-8	93%-3%		3-15	88%-3%		1-5	93%-6%		1-9	95%-10%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	2-8	92%-3%		3-15	90%-10%		1-10	93%-6%		2-5	95%-18%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	2-8	94%-3%		3-18	89%-3%		1-14	92%-3%		1-12	94%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	2-8	94%-3%		3-22	90%-3%		1-8	95%-3%		1-10	98%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-8	94%-3%		3-15	92%-3%		1-15	92%-12%		1-10	94%-8%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-8	89%-3%		3-18	85%-3%		1-14	93%-3%		1-20	95%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	94%-3%		T.B.D.	T.B.D.	T.B.D.	1-17	94%-10%		2-12	95%-9%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-8	92%-3%		3-15	88%-3%		1-10	92%-14%		1-9	93%-12%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	2-8	92%-3%		3-11	90%-3%		1-9	92%-4%		1-7	92%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	3-8	95%-3%		3-15	90%-3%		1-12	94%-7%		1-10	94%-4%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	2-16	99%-3%		T.B.D.	T.B.D.	T.B.D.	1-13	98%-7%		2-9	98%-4%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-8	92%-3%		3-15	88%-3%		1-10	92%-14%		T.B.D.	T.B.D.	T.B.D.
Feller  Schneider	40300 (SBD315)	[RLC]	300W	2-8	92%-3%					1-9	92%-4%				
Feller  Schneider	40420 (SBD420)	[RLC]	420W	3-8	95%-3%					1-12	94%-7%				
GIRA	1176-00/01	[RLC]	50 – 420W	2-16	94%-3%		T.B.D.	T.B.D.	T.B.D.	1-14	96%-17%		2-10	95%-15%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)				3-18	90%-21%		1-10	93%-3%		1-12	95%-3%	
Hager	EVN 011	[RC]	300VA	2-12	99%-3%		T.B.D.	T.B.D.	T.B.D.	1-10	98%-8%		2-7	97%-6%	
Hager	EVN 012	[RC]	300W	2-12	99%-3%		T.B.D.	T.B.D.	T.B.D.	1-10	98%-13%		2-7	96%-6%	
Hager	EVN 004	[RL]	500VA	2-20	97%-3%		T.B.D.	T.B.D.	T.B.D.	1-17	98%-14%		2-12	97%-6%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-8	91%-3%		3-19	85%-3%		1-15	98%-13%		2-12	93%-11%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	2-8	91%-3%		3-18	90%-21%		1-10	92%-3%		1-12	95%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	2-5	78%-3%		T.B.D.	T.B.D.	T.B.D.	1-4	93%-19%		2-3	90%-19%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	2-12	89%-3%		T.B.D.	T.B.D.	T.B.D.	1-10	58%-3%		2-7	75%-3%	
Legrand	774161	[RL]	40 – 400 W-Turn	2-8	94%-3%			N.A.	N.A.	2-11	93%-6%		1-9	97%-7%	
Legrand	78401	[RLC]	40 – 500W	2-16	94%-3%		T.B.D.	T.B.D.	T.B.D.	1-13	94%-7%		2-9	93%-5%	
Legrand	67081	[RL]	40 – 400 W-Turn	3-8	95%-3%			N.A.	N.A.	2-9	94%-5%		1-7	98%-7%	
Legrand	67082	[RL]	40 – 600 W-Turn	3-8	94%-3%			N.A.	N.A.	2-15	94%-5%		1-2	97%-7%	
Legrand	67083	[RLC]	3 – 400W	2-16	81%-3%		T.B.D.	T.B.D.	T.B.D.	1-3	94%-3%		2-9	92%-3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-8	93%-3%		3-15	90%-3%		1-11	93%-8%		1-9	94%-5%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-8	95%-3%		3-11	95%-3%		1-9	97%-3%		1-7	98%-2%	
Legrand	L4402N	[R]	60 – 500W	3-20	78%-3%		T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-8	92%-3%		3-15	88%-3%		1-10	92%-14%		1-9	93%-12%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-8	92%-3%		3-11	90%-3%		1-9	92%-4%		1-7	92%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	3-8	95%-3%		3-15	90%-3%		1-12	94%-7%		1-10	94%-4%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	2-8	70%-3%		3-16	83%-3%		1-13	77%-7%		1-11	80%-8%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	2-8	87%-3%		3-18	83%-3%		1-15	96%-30%		1-12	92%-7%	
MK-Electric	K4501 WHILV	[RLC]	180W	2-9	86%-3%		T.B.D.	T.B.D.	T.B.D.	1-7	92%-5%		2-5	99%-28%	
MK-Electric	K4500 WHILV	[RLC]	400W	2-16	83%-3%		T.B.D.	T.B.D.	T.B.D.	1-11	99%-29%		2-9	99%-28%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-4	97%-3%		T.B.D.	T.B.D.	T.B.D.	1-3	96%-4%		T.B.D.	T.B.D.	T.B.D.
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-5	81%-3%		T.B.D.	T.B.D.	T.B.D.	1-4	95%-3%		2-3	92%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-8	89%-3%		3-18	85%-3%		1-14	93%-3%		1-20	95%-3%	
RELCO	RP0977	[LED]	4-100W	2-4	97%-6%					1-3	99%-15%				
RELCO	RMO545	[LED]	4-100W	2-4	92%-3%					1-3	92%-8%				
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-8	92%-3%		3-11	90%-3%		1-9	92%-4%		1-7	92%-3%	
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	2-8	92%-3%		3-11	90%-3%		1-9	92%-4%		1-7	92%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	2-8	92%-3%		3-15	88%-3%		1-10	92%-14%		1-9	93%-12%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-8	92%-3%		3-11	90%-3%		1-9	92%-4%		1-7	92%-3%	
VADSBO	ED 350	[RC]	50 – 350W	2-14	88%-4%		T.B.D.	T.B.D.	T.B.D.	1-12	93%-14%		2-8	90%-13%	
VADSBO	DRS 315	[RC]	50 – 315W	2-13	93%-3%		T.B.D.	T.B.D.	T.B.D.	1-11	95%-10%		2-7	94%-9%	
VADSBO	DU 250	[RC]	20 – 250W	2-10	80%-3%	<11	T.B.D.	T.B.D.	T.B.D.	1-14	96%-17%		2-6	82%-3%	
Varilight	HQ3W	[R]	60-400W	2-8	93%-3%		3-15	88%-3%		1-8	91%-5%		2-9	97%-6%	
Varilight	ICT401 M	[RC]	20-400W	2-16	86%-3%		T.B.D.	T.B.D.	T.B.D.	1-13	94%-5%		2-9	93%-10%	
Vimar	20148	[RL]	500W	3-8	92%-3%	<9	3-18	89%-3%		1-14	92%-4%		1-12	95%-3%	
Vimar	14153	[R]		2-20	94%-3%		T.B.D.	T.B.D.	T.B.D.	1-15	99%-3%		2-12	99%-3%	
Vimar	20160	[RC]		3-20	94%-3%	<14	3-15	88%-3%	T.B.D.	1-10	95%-3%		2-12	93%-3%	
Vimar	20162	[RL]	40 – 300W	2-8	91%-3%	<9	3-11	88%-3%		1-9	91%-7%		1-7	92%-4%	
Philips Dynalite	DDLE801		(100W per channel)	2-8	89%-3%		T.B.D.	T.B.D.	T.B.D.	1-14	95%-3%		1-12	96%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	2-8	89%-3%		T.B.D.	T.B.D.	T.B.D.	1-13	99%-3%		1-11	93%-2%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)



# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Master LEDspot MV 9.5W-90W PAR30S			Master LEDspot Classic 9.5 - 75W PAR30S			Master LEDspot MV 5.5W-60W PAR38			Master LEDspot MV 13W-100W PAR3		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	1-5	91%-11%		1-8	93%-12%		1-5	88%-3%		1-5	97%-3%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	1-5	93%-9%		1-8	96%-11%			N.A.	N.A.	5	96%-3%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-3	59%-3%	
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	1-5	93%-14%		1-8	95%-11%		2-5	90%-3%			N.A.	N.A.
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	1-5	93%-3%		1-11	94%-3%		1-5	92%-3%		5	99%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	1-5	94%-3%		1-13	96%-3%		2-5	94%-3%		5	98%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	1-5	93%-10%		1-9	93%-12%		1-5	91%-3%		1-5	99%-3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	1-5	93%-3%		1-11	95%-3%		1-5	90%-3%			N.A.	N.A.
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	1-5	96%-9%		1-11	95%-12%		1-5	94%-3%		1-5	96%-3%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-5	92%-13%		1-8	92%-18%			N.A.	N.A.	1-5	98%-3%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-5	93%-3%		1-7	94%-4%		2-5	84%-3%		1-5	99%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-5	99%-5%		1-9	96%-7%		1-5	92%-22%		1-5	98%-3%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module				1-8	95%-7%		1-5	99%-3%			N.A.	N.A.
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-5	92%-13%		1-8	92%-18%			N.A.	N.A.	1-5	98%-3%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W				1-7	94%-4%							
Feller  Schneider	40420 (SBD420)	[RLC]	420W				1-9	96%-7%							
GIRA	1176-00/01	[RLC]	50 – 420W	1-5	92%-15%		1-9	88%-7%		1-5	84%-8%			N.A.	N.A.
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	1-5	90%-24%		1-9	97%-3%		1-5	88%-3%			N.A.	N.A.
Hager	EVN 011	[RC]	300VA	1-5	92%-6%		1-6	96%-6%			N.A.	N.A.		N.A.	N.A.
Hager	EVN 012	[RC]	300W	1-5	92%-10%		1-6	96%-14%		1-5	98%-3%			N.A.	N.A.
Hager	EVN 004	[RL]	500VA	1-5	93%-12%		1-11	97%-14%		1-5	99%-3%			N.A.	N.A.
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-5	92%-11%		1-11	93%-13%		1-5	91%-3%		1-5	97%-3%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	1-5	93%-3%		1-10	94%-3%		1-5	88%-3%			N.A.	N.A.
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	1-3	87%-18%		1-3	89%-20%			N.A.	N.A.		N.A.	N.A.
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer	1-5	84%-3%		1-6	84%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.	1-8	96%-6%			N.A.	N.A.	5	97%-3%	
Legrand	78401	[RLC]	40 – 500W	1-5	91%-7%		5- 8	93%-8%		1-5	94%-3%			N.A.	N.A.
Legrand	67081	[RL]	40 – 400 W-Turn	1-5	98%-7%		1-6	96%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn	1-5	99%-6%		1-13	96%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W	1-5	88%-3%		1-2	89%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-5	96%-6%		1-8	94%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-5	96%-3%		1-6	98%-3%		1-5	91%-3%		1-5	96%-3%	
Legrand	L4402N	[R]	60 – 500W		N.A.	N.A.		N.A.	N.A.	3-5	88%-8%			N.A.	N.A.
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-5	92%-13%		1-8	92%-18%			N.A.	N.A.	1-5	98%-3%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-5	93%-3%		1-7	94%-4%		2-5	84%-3%		1-5	99%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-5	99%-5%		1-9	96%-7%		1-5	92%-22%		1-5	98%-3%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	1-5	85%-7%		1-5	84%-5%			N.A.	N.A.		N.A.	N.A.
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	1-5	98%-29%		1-7	84%-5%		1-5	86%-3%			N.A.	N.A.
MK-Electric	K4501 WHILV	[RLC]	180W	1-5	99%-25%		1-9	93%-8%		1-5	85%-3%			N.A.	N.A.
MK-Electric	K4500 WHILV	[RLC]	400W	1-5	99%-25%		1-11	93%-6%		1-5	86%-3%			N.A.	N.A.
NIKO	310-0280X	[LED]	2 – 100 VA	1-2	93%-3%		1-2	86%-4%		1-4	96%-3%			N.A.	N.A.
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	1-3	90%-3%		1-3	86%-3%		1-4	86%-4%			N.A.	N.A.
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	1-5	93%-3%		1-11	95%-3%		1-5	90%-3%			N.A.	N.A.
RELCO	RP0977	[LED]	4-100W				1-2	89%-13%							
RELCO	RMO545	[LED]	4-100W				1-2	83%-8%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-5	93%-3%		1-7	94%-4%		2-5	84%-3%		1-5	99%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-5	93%-3%		1-7	94%-4%		2-5	84%-3%		1-5	99%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	1-5	92%-13%		1-8	92%-18%			N.A.	N.A.	1-5	98%-3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-5	93%-3%		1-7	94%-4%		2-5	84%-3%		1-5	99%-3%	
VADSBO	ED 350	[RC]	50 – 350W	1-5	86%-12%		1-7	82%-13%		1-5	87%-7%		1-5	90%-3%	
VADSBO	DRS 315	[RC]	50 – 315W	1-5	89%-8%		1-7	90%-10%			N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 – 250W	1-5	78%-3%		1-5	88%-15%		1-5	82%-3%			N.A.	N.A.
Varilight	HQ3W	[R]	60-400W	1-5	93%-3%		1-8	95%-4%		3-5	91%-3%			N.A.	N.A.
Varilight	ICT401 M	[RC]	20-400W	1-5	92%-3%		1-8	89%-5%		1-5	85%-3%		1-5	98%-3%	
Vimar	20148	[RL]	500W	1-5	97%-5%		1-11	97%-3%		3-5	96%-4%			N.A.	N.A.
Vimar	14153	[R]		2-5	97%-5%		1-11	89%-3%		1-5	97%-3%			N.A.	N.A.
Vimar	20160	[RC]		1-5	90%-3%		1-6	90%-3%		1-5	90%-3%			N.A.	N.A.
Vimar	20162	[RL]	40 – 300W	1-5	94%-5%		1-6	96%-8%		1-5	89%-3%		1-5	98%-3%	
Philips Dynalite	DDLE801		(100W per channel)	1-5	95%-3%		1-11	93%-3%			N.A.	N.A.		N.A.	N.A.
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-5	93%-3%		1-9	96%-3%		1-5	90%-3%		1-5	99%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)





# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Master LEDspot Classic D 13-100W PAR38			CorePro LEDspot MV 5W-60W R50			CorePro LEDspot MV -60W R63			Master LEDbulb clear 6W-40W DimTone		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	1-5	94%-13%		2-10	90%-20%		2-15	97%-20%		1-3 (max 12)	87%-3%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	1-5	96%-12%		2-10	94%-8%					1-3 (max 13)	90%-3%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.					N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	1-8	97%-57%		2-10	94%-16%	< 2	2-15	97%-36%	< 16	1-3 (max 13)	93%-3%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	1-8	95%-3%		2-10	92%-3%		2-20	98%-3%		1-3 (max 13)	90%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	1-9	96%-3%		2-10	92%-3%		2-20	98%-3%		1-3 (max 17)	92%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	1	93%-12%		2-10	96%-20%		2-15	98%-21%		1-3 (max 14)	94%-8%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	1-15	96%-3%		2-10	92%-3%		2-20	95%-3%		1-3 (max 17)	86%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	1-8	93%-11%		1-16	95%-20%					1-3 (max 17)	91%-4%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-5	93%-15%		2-10	88%-20%		2-10	99%-26%		1-3 (max 6)	88%-3%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-5	94%-4%		2-10	88%-3%		2-10	97%-3%		1-3 (max 11)	93%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-3 (max 11)	89%-3%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	1-6	96%-8%		1-16	97%-12%	<17				T.B.D.	T.B.D.	T.B.D.
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-5	93%-15%		2-10	88%-20%		2-10	99%-26%		1-3 (max 6)	88%-3%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	1-5	94%-4%					2-10	97%-3%				
Feller  Schneider	40420 (SBD420)	[RLC]	420W		N.A.	N.A.					N.A.	N.A.			
GIRA	1176-00/01	[RLC]	50 – 420W		N.A.	N.A.	1-16	94%-30%					1-3 (max 14)	93%-5%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	1-5	94%-4%		2-10	92%-8%		2-19	95%-7%		1-3 (max 17)	86%-3%	
Hager	EVN 011	[RC]	300VA	5	97%-9%		1-12	97%-14%	< 13				1-3 (max 10)	98%-3%	
Hager	EVN 012	[RC]	300W	5	97%-14%		1-12	96%-15%	< 13				1-3 (max 10)	98%-3%	
Hager	EVN 004	[RL]	500VA	8	97%-14%		1-16	97%-15%	< 3				1-3 (max 17)	98%-3%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-8	92%-14%		2-10	92%-24%		2-20	98%-25%		1-3 (max 18)	93%-3%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	1-8	95%-3%		2-10	92%-36%		2-20	96%-46%		1-3 (max 17)	87%-7%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	1-2	92%-21%		1-5	79%-31%					1-3 (max 4)	82%-4%	
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer	1-5	81%-3%		1-12	87%-14%					T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 – 400 W-Turn	1-6	97%-7%		3-10	92%-8%	< 4		N.A.	N.A.			N.A.
Legrand	78401	[RLC]	40 – 500W		N.A.	N.A.	1-16	95%-14%		3-10	97%-15%		1-3 (max 17)	96%-3%	
Legrand	67081	[RL]	40 – 400 W-Turn	1-5	98%-7%		3-10	96%-16%						N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.	3-20	97%-14%			N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W	1-6	92%-3%		2-16	90%-12%						N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)		N.A.	N.A.	2-10	88%-3%	< 5	2-15	97%-3%		1-3 (max 10)	95%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)		N.A.	N.A.	2-10	96%-3%		2-11	99%-3%		1-3 (max 10)	88%-17%	
Legrand	L4402N	[R]	60 – 500W	2- 3	91%-15%		2-16	95%-20%						N.A.	N.A.
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-5	93%-15%		2-10	88%-20%		2-10	99%-26%		1-3 (max 6)	88%-3%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-5	94%-4%		2-10	88%-3%		2-10	97%-3%		1-3 (max 11)	93%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-3 (max 14)	89%-3%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	1-7	88%-10%		2-10	80%-14%		2-17	87%-16%			N.A.	N.A.
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	1-8	93%-6%		2-10	86%-14%		2-19	93%-16%		1-3 (max 17)	85%-3%	
MK-Electric	K4501 WHILV	[RLC]	180W	1-3	92%-8%		1-9	90%-17%					1-3 (max 6)	88%-3%	
MK-Electric	K4500 WHILV	[RLC]	400W	1-6	91%-6%		1-16	89%-18%					1-3 (max 13)	88%-3%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-2	94%-5%		1-4	86%-6%					1-3 (max 17)	98%-4%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	1-2	91%-3%		1-5	89%-7%					1-3 (max 10)	88%-4%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	1-15	96%-3%		2-10	92%-3%		2-20	95%-3%		1-3 (max 17)	86%-3%	
RELCO	RP0977	[LED]	4-100W	1-2	99%-17%										
RELCO	RMO545	[LED]	4-100W	1-3	93%-9%										
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-5	94%-4%		2-10	88%-3%		2-10	97%-3%		1-3 (max 11)	93%-3%	
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	1-5	94%-4%		2-10	88%-3%		2-10	97%-3%		1-3 (max 11)	93%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	1-5	93%-15%		2-10	88%-20%		2-10	99%-26%		1-3 (max 13)	88%-3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-5	94%-4%		2-10	88%-3%		2-10	97%-3%		1-3 (max 11)	93%-3%	
VADSBO	ED 350	[RC]	50 – 350W	1-5	90%-1%		1-14	88%-27%					1-3 (max 12)	91%-5%	
VADSBO	DRS 315	[RC]	50 – 315W	1-5	94%-11%		2-13	95%-19%	< 14					N.A.	N.A.
VADSBO	DU 250	[RC]	20 – 250W		N.A.	N.A.	1-10	85%-9%	< 11				1-3 (max 8)	88%-3%	< 4
Varilight	HQ3W	[R]	60-400W	1-6	94%-5%		2-10	92%-6%		2-15	99%-4%		1-3 (max 13)	92%-3%	
Varilight	ICT401 M	[RC]	20-400W	1-6	93%-5%		1-16	89%-6%					T.B.D.	T.B.D.	T.B.D.
Vimar	20148	[RL]	500W	1-8	95%-5%		3-10	92%-8%	< 11	2-19	96%-13%	< 4		N.A.	N.A.
Vimar	14153	[R]		1-8	96%-3%		1-16	99%-6%					1-3	98%-3%	
Vimar	20160	[RC]		1-8	92%-3%		2-16	94%-11%	< 17					N.A.	N.A.
Vimar	20162	[RL]	40 – 300W	1-5	35%-7%		2-10	88%-8%	< 11	2-11	97%-9%	< 5		N.A.	N.A.
Philips Dynalite	DDLE801		(100W per channel)	1-8	94%-3%		T.B.D.	T.B.D.	T.B.D.	2-19	99%-3%		1-3	95%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-7	93%-4%		T.B.D.	T.B.D.	T.B.D.	2-17	97%-3%		1-3	98%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)



# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED bulb											
				Master LEDbulb clear 8.5W-60W DimTone			Master LEDbulb 6-40W frosted DimTone			Master ledbulb 8.5-60W frosted DimTone			Master LEDbulb 11W-75W frosted DimTone		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	1-3 (max 8)	98%-4%		1-3	98%-8%		1-3	94%-7%		1-3	87%-10%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	1-3 (max 9)	95%-3%		1-3	98%-7%		1-3	96%-5%		1-3	93%-10%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	1-3 (max 9)	94%-5%		1-3	97%-19%		1-3	94%-9%		1-3	93%-17%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	1-3 (max 9)	95%-3%		1-3	99%-3%		1-3	95%-3%		1-3	93%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	1-3 (max 11)	95%-3%		1-3	97%-3%		1-3	97%-3%		1-3	93%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	1-3 (max 9)	96%-5%		1-3	98%-7%		1-3	95%-6%		1-3	93%-10%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	1-3 (max 11)	89%-3%		1-3	83%-3%		1-3	89%-3%		1-3	87%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	1-3 (max 11)	88%-5%		1-3	88%-10%		1-3	97%-6%		1-3	98%-10%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3 (max 4)	90%-4%			N.A.	N.A.	2-3	93%-8%		1-3	90%-10%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3 (max 7)	92%-3%		1-3	98%-3%		1-3	94%-2%		1-3	87%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3 (max 7)	95%-3%			N.A.	N.A.		N.A.	N.A.	1-3	93%-7%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	T.B.D.	T.B.D.	T.B.D.	1-3	98%-6%		1-3	99%-3%		1-3	97%-5%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3 (max 4)	90%-4%			N.A.	N.A.	2-3	93%-8%		1-3	90%-10%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W				1-3	98%-3%		1-3	94%-2%				
Feller  Schneider	40420 (SBD420)	[RLC]	420W					N.A.	N.A.		N.A.	N.A.			
GIRA	1176-00/01	[RLC]	50 – 420W	1-3 (max 9)	88%-5%		1-3	99%-19%			N.A.	N.A.	1-3	93%-24%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	1-3 (max 11)	91%-3%		1-3	97%-31%		1-3	95%-17%		1-3	90%-3%	
Hager	EVN 011	[RC]	300VA	1-3 (max 7)	93%-3%		1-3	98%-8%		1-3	99%-7%		1-3	97%-6%	
Hager	EVN 012	[RC]	300W	1-3 (max 7)	93%-3%		1-3	98%-12%		1-3	99%-6%		1-3	97%-6%	
Hager	EVN 004	[RL]	500VA	1-3 (max 11)	93%-3%		1-3	99%-13%		1-3	99%-6%		1-3	97%-6%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-3 (max 12)	96%-5%		1-3	98%-9%		1-3	96%-8%		1-3	90%-10%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	1-3 (max 11)	91%-7%		1-3	97%-4%					1-3	87%-20%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	1-3 (max 2)	83%-5%			N.A.	N.A.	1-3	89%-8%			N.A.	N.A.
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	T.B.D.	T.B.D.	T.B.D.	2-3	96%-8%		1-3	96%-4%			N.A.	N.A.
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.	2-3	96%-5%			N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	1-3 (max 11)	93%-3%		1-3	98%-7%		1-3	97%-4%		1-3	94%-7%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.	2-3	97%-5%			N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.	3	98%-5%		2-3	97%-5%			N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W	1-3 (max 9)	90%-3%			N.A.	N.A.	1-2	89%-3%			N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3 (max 7)	95%-3%		2-3	99%-6%		1-3	98%-6%		1-3	93%-7%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3 (max 7)	95%-3%		1-3	99%-3%		1-3	96%-3%		1-3	93%-3%	
Legrand	L4402N	[R]	60 – 500W	1-3 (max 11)	83%-5%		2-3	97%-13%		2-3	89%-6%		1-3	86%-17%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-3 (max 4)	90%-4%		1-3	98%-3%		2-3	93%-8%		1-3	90%-10%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3 (max 7)	92%-3%		1-3	98%-3%		1-3	94%-2%		1-3	87%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-3 (max 9)	95%-3%			N.A.	N.A.		N.A.	N.A.	1-3	93%-7%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	1-3 (max 10)	80%-3%		1-3	99%-6%		1-3	84%-5%		1-3	80%-7%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	1-3 (max 11)	90%-3%		1-3	97%-6%		1-3	90%-5%		1-3	83%-7%	
MK-Electric	K4501 WHILV	[RLC]	180W	1-3 (max 4)	83%-3%		1-3	96%-7%		1-3	90%-3%		1-3	85%-8%	
MK-Electric	K4500 WHILV	[RLC]	400W	1-3 (max 9)	85%-3%		1-3	95%-7%		1-3	90%-3%		1-3	90%-9%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3 (max 11)	95%-5%		1-3	98%-3%		1-2	99%-3%		T.B.D.	T.B.D.	T.B.D.
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	1-3 (max 7)	83%-5%		1-3	98%-21%		1-3	92%-3%		1-3	87%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	1-3 (max 11)	89%-3%		1-3	83%-3%		1-3	89%-3%		1-3	87%-3%	
RELCO	RPO977	[LED]	4-100W				1-3	96%-4%		1-2	99%-9%				
RELCO	RMO545	[LED]	4-100W				1-3	98%-8%		1-2	95%-4%				
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3 (max 7)	92%-3%		1-3	98%-3%		1-3	94%-2%		1-3	87%-3%	
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	1-3 (max 7)	92%-3%		1-3	98%-3%		1-3	94%-2%		1-3	87%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	1-3 (max 9)	90%-4%			N.A.	N.A.	2-3	93%-8%		1-3	90%-10%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3 (max 7)	90%-4%		1-3	98%-3%		1-3	94%-2%		1-3	87%-3%	
VADSBO	ED 350	[RC]	50 – 350W	1-3 (max 8)	85%-5%		1-3	99%-25%		1-3	94%-8%		1-3	84%-23%	
VADSBO	DRS 315	[RC]	50 – 315W	1-3 (max 7)	93%-3%	<2		N.A.	N.A.		N.A.	N.A.	1-3	96%-9%	
VADSBO	DU 250	[RC]	20 – 250W	1-3 (max 5)	83%-3%	<4	1-3	96%-6%		1-3	90%-3%		1-3	87%-3%	
Varilight	HQ3W	[R]	60-400W	1-3 (max 9)	99%-3%		1-3	96%-4%		1-3	96%-3%		1-3	90%-3%	
Varilight	ICT401 M	[RC]	20-400W	T.B.D.	T.B.D.	T.B.D.	1-3	97%-3%		1-3	88%-2%		1-3	89%-3%	
Vimar	20148	[RL]	500W		N.A.	N.A.	1-3	97%-5%	<3	1-3	96%-4%	<2	1-3	93%-7%	
Vimar	14153	[R]		1-3	98%-3%		2-3	98%-3%		1-3	95%-6%		1-3	98%-3%	
Vimar	20160	[RC]		1-3	93%-3%	<4	2-3	95%-3%	<2	1-3	96%-3%	<2	1-3	92%-4%	
Vimar	20162	[RL]	40 – 300W		N.A.	N.A.	1-3	98%-7%	<3	1-3	95%-9%	<2	1-3	90%-7%	
Philips Dynalite	DDLE801		(100W per channel)	1-3	93%-3%		1-3	96%-3%		1-3	93%-3%		1-3	90%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-3	90%-3%		1-3	98%-3%		1-3	95%-3%		1-3	90%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)





# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED bulb											
				Master LEDbulb 15W-100W frosted DimTone			CorePro LEDbulb 6W-40W			CorePro LEDbulb 8.5W-60W			CorePro LEDbulb 11.5W-75W		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	1-3	89%–9%		1-3	94%–3%		1-3	95%–3%		1-3	90%–10%	T.B.D.
Berker  INSTA	283010	[R]	60 – 400 W-Turn	1-3	91%–9%		1-3	96%–3%		1-3	92%–11%		1-3	94%–12%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	1-3	91%–22%		1-3	98%–9%		1-3	94%–15%		1-3	92%–24%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	1-3	93%–3%			N.A.	N.A.	1-3	95%–3%		1-3	94%–3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	1-3	93%–3%		1-3	99%–3%		1-3	92%–3%		1-3	96%–3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	1-3	91%–10%			98%–5%			92%–4%		1-3	92%–10%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	1-3	87%–3%		1-3	94%–3%		1-3	94%–3%		1-3	82%–3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	1-3	98%–11%		1-3	91%–13%		1-3	92%–19%		1-3	88%–23%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3	89%–10%		3	91%–3%		1-3	91%–7%		1-3	88%–13%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	84%–3%		1-3	93%–3%		1-3	98%–3%		1-3	88%–3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	91%–4%		1-3	91%–3%		1-3	93%–3%		1-3	92%–3%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	1-3	97%–5%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3	89%–10%		3	91%–3%		1-3	91%–7%		1-3	88%–13%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W												
Feller  Schneider	40420 (SBD420)	[RLC]	420W												
GIRA	1176-00/01	[RLC]	50 – 420W	1-3	93%–24%		1-3	93%–15%		1-3	93%–13%		1-3	92%–20%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	1-3	87%–4%		1-3	94%–3%		1-3	99%–3%		1-3	90%–3%	
Hager	EVN 011	[RC]	300VA	1-3	97%–6%		1-3	97%–3%		1-3	97%–3%		1-3	97%–3%	
Hager	EVN 012	[RC]	300W	1-3	97%–6%		1-3	97%–3%		1-3	97%–3%		1-3	95%–3%	
Hager	EVN 004	[RL]	500VA	1-3	97%–6%		1-3	97%–3%		1-3	97%–3%		1-3	97%–5%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-3	89%–9%		1-3	92%–8%		1-3	93%–7%		1-3	90%–10%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	1-3	89%–29%		1-3	95%–3%		1-3	93%–3%		1-3	90%–28%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W		N.A.	N.A.	1-3	84%–12%		1-3	87%–20%		1-3	83%–25%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	1-3	94%–7%		1-3	93%–3%		1-3	93%–3%		1-3	92%–5%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)		N.A.	N.A.		98%–3%			92%–3%		1-3	92%–5%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	91%–3%			96%–3%			97%–3%		1-3	94%–3%	
Legrand	L4402N	[R]	60 – 500W	1-3	86%–18%			N.A.	N.A.	2-3	87%–11%		1-3	85%–17%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-3	89%–10%		3	91%–3%		1-3	91%–7%		1-3	88%–13%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	84%–3%		1-3	93%–3%		1-3	98%–3%		1-3	88%–3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-3	91%–4%		1-3	91%–3%		1-3	93%–3%		1-3	92%–3%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	1-3	82%–9%		1-3	82%–3%		1-3	84%–6%		1-3	82%–10%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn		N.A.	N.A.	1-3	89%–3%		1-3	92%–3%		1-3	78%–8%	
MK-Electric	K4501 WHILV	[RLC]	180W	1-3	85%–8%		1-3	87%–3%		1-3	88%–3%		1-3	78%–8%	
MK-Electric	K4500 WHILV	[RLC]	400W	1-3	90%–9%		1-3	87%–3%		1-3	87%–3%		1-3	78%–8%	
NIKO	310-0280X	[LED]	2 – 100 VA	T.B.D.	T.B.D.	T.B.D.	1-3	96%–4%		1-3	96%–5%		1-3	95%–13%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	1-3	87%–3%		1-3	85%–12%		1-3	89%–27%		1-3	88%–28%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	1-3	87%–3%		1-3	94%–3%		1-3	94%–3%		1-3	82%–3%	
RELCO	RPO977	[LED]	4-100W												
RELCO	RMO545	[LED]	4-100W												
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	84%–3%		1-3	93%–3%		1-3	98%–3%		1-3	88%–3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-3	84%–3%		1-3	93%–3%		1-3	98%–3%		1-3	88%–3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	1-3	89%–10%		3	91%–3%		1-3	91%–7%		1-3	88%–13%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	84%–3%		1-3	93%–3%		1-3	98%–3%		1-3	88%–3%	
VADSBO	ED 350	[RC]	50 – 350W	1-3	84%–23%		1-3	89%–16%		1-3	85%–11%		1-3	85%–17%	
VADSBO	DRS 315	[RC]	50 – 315W	1-3	96%–9%		1-3	92%–3%		1-3	92%–3%		1-3	90%–7%	
VADSBO	DU 250	[RC]	20 – 250W	1-3	87%–3%		1-3	87%–3%		1-3	83%–3%		1-3	80%–3%	
Varilight	HQ3W	[R]	60-400W	1-3	91%–4%		1-3	95%–3%		1-3	95%–3%		1-3	94%–3%	
Varilight	ICT401 M	[RC]	20-400W	1-3	89%–3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Vimar	20148	[RL]	500W	1-3	91%–7%			N.A.	N.A.	1-3	94%–3%		1-3	94%–7%	
Vimar	14153	[R]		1-3	98%–3%		1-3	99%–3%		1-3	99%–3%		1-3	97%–3%	
Vimar	20160	[RC]		1-3	92%–4%			N.A.	N.A.	1-3	92%–3%		1-3	90%–3%	
Vimar	20162	[RL]	40 – 300W	1-3	87%–4%		1-3	95%–5%		1-3	88%–3%		1-3	88%–3%	
Philips Dynalite	DDLE801		(100W per channel)	1-3	89%–4%		1-3	92%–3%		1-3	95%–3%		1-3	92%–3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-3	89%–3%		1-3	93%–3%		1-3	93%–3%		1-3	92%–3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)



# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				CorePro LEDbulb 16W-100W			Classic LEDbulb D 7.5-48W A60 Gold / D 5.5-40W A60 CL / D 8-60W A60 CL / DT 5.5-40W A60 CL / DT 8-60W A60 CL / DT 8-60W ST64			Classic filament bulb ST64 clear dim 60W / ST64 gold dim 50W / ST64 gold dim 55W			Classic filament bulb G93 clear 60W / G120 gold dim 50W		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	1-3	91%-9%		1-3	98%-3%		1-3	93%-3%		1-3	93%-3%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn		N.A.	N.A.	2-3	97%-3%		1-3	94%-3%		1-3	94%-3%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.					N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	1-3	94%-25%		1-3	98%-8%		1-3	97%-3%		1-3	97%-3%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	1-3	94%-3%		1-3	98%-3%		1-3	94%-3%		1-3	94%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	1-3	94%-3%		1-3	97%-3%		1-3	96%-3%		1-3	96%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	1-3	93%-9%		1-3	99%-3%		1-3	95%-3%		1-3	95%-3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	1-3	90%-3%		1-3	97%-3%		1-3	91%-3%		1-3	91%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	1-3	91%-25%		1-3	93%-3%		1-3	95%-3%		1-3	95%-3%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3	90%-13%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	90%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	94%-3%			N.A.	N.A.	3	99%-3%		3	99%-3%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	T.B.D.	T.B.D.	T.B.D.	1-3	91%-3%		1-3	99%-3%		1-3	99%-3%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3	90%-13%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W				2-3	98%-3%							
Feller  Schneider	40420 (SBD420)	[RLC]	420W					N.A.	N.A.						
GIRA	1176-00/01	[RLC]	50 – 420W	1-3	93%-19%		1-3	99%-3%		1-3	95%-11%		1-3	95%-11%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	1-3	91%-3%					1-3	93%-3%		1-3	93%-3%	
Hager	EVN 011	[RC]	300VA	1-3	96%-4%		1-3	92%-3%		1-3	96%-3%		1-3	96%-3%	
Hager	EVN 012	[RC]	300W	1-3	95%-4%		1-3	92%-3%		1-3	98%-3%		1-3	98%-3%	
Hager	EVN 004	[RL]	500VA	1-3	98%-4%		1-3	92%-3%		1-3	98%-4%		1-3	98%-4%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-3	91%-11%		1-3	98%-3%		1-3	93%-6%		1-3	93%-6%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	1-3	91%-26%		1-3	97%-3%		1-3	95%-10%		1-3	95%-10%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	1-3	85%-23%		1-3	86%-4%		1-3	86%-3%		1-3	86%-3%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	T.B.D.	T.B.D.	T.B.D.	1-3	92%-3%		1-3	80%-3%		1-3	80%-3%	
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.	2-3	98%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	1-3	94%-5%		1-3	91%-3%		1-3	95%-3%		1-3	95%-3%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.	2-3	97%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W		N.A.	N.A.	1-3	90%-3%		1-2	87%-5%		1-2	87%-5%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	92%-5%		1-3	97%-3%		1-3	95%-3%		1-3	95%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	94%-3%		1-3	97%-3%		1-3	98%-3%		1-3	98%-3%	
Legrand	L4402N	[R]	60 – 500W	1-3	85%-16%		2-3	88%-3%		2-3	87%-5%		2-3	87%-5%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-3	90%-13%		2-3	98%-3%		1-3	94%-6%		1-3	94%-6%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	90%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-3	94%-3%			N.A.	N.A.	3	99%-3%		3	99%-3%	
MK-Electric	K1535	[R]	65 – 450 W-Turn	1-3	83%-9%		2-3	93%-3%		1-3	84%-3%		1-3	84%-3%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	1-3	88%-8%		1-3	98%-3%		1-3	87%-3%		1-3	87%-3%	
MK-Electric	K4501 WHILV	[RLC]	180W	1-3	88%-8%		1-3	98%-3%		1-3	91%-9%		1-3	91%-9%	
MK-Electric	K4500 WHILV	[RLC]	400W	1-3	88%-8%		1-3	92%-3%		1-3	91%-9%		1-3	91%-9%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3	95%-13%		1-3	91%-3%		1-3	97%-3%		1-3	97%-3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	1-3	88%-28%		1-3	97%-3%		1-3	87%-3%		1-3	87%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	1-3	90%-3%		1-3	97%-3%		1-3	91%-3%		1-3	91%-3%	
RELCO	RPO977	[LED]	4-100W				1-3	98%-3%							
RELCO	RMO545	[LED]	4-100W				1-3	92%-3%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	90%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	1-3	90%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	1-3	90%-13%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	90%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
VADSBO	ED 350	[RC]	50 – 350W	1-3	83%-15%		1-3	98%-3%		1-3	91%-9%		1-3	91%-9%	
VADSBO	DRS 315	[RC]	50 – 315W	1-3	91%-6%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 – 250W	1-3	80%-3%		1-3	84%-3%		1-3	87%-3%		1-3	87%-3%	
Varilight	HQ3W	[R]	60-400W	1-3	93%-3%		2-3	97%-3%		1-3	93%-3%		1-3	93%-3%	
Varilight	ICT401 M	[RC]	20-400W	T.B.D.	T.B.D.	T.B.D.	1-3	75%-3%		1-3	87%-3%		1-3	87%-3%	
Vimar	20148	[RL]	500W	1-3	94%-6%		1-3	98%-3%		1-3	95%-3%	<2	1-3	95%-3%	<2
Vimar	14153	[R]		1-3	98%-3%		1-3	89%-3%		1-3	98%-3%		1-3	98%-3%	
Vimar	20160	[RC]		1-3	91%-3%		1-3	91%-3%		1-3	92%-3%		1-3	92%-3%	
Vimar	20162	[RL]	40 – 300W	1-3	91%-3%		1-3	98%-3%		1-3	97%-3%	<2	1-3	97%-3%	<2
Philips Dynalite	DDLE801		(100W per channel)	1-3	95%-3%		3	91%-3%		1-3	89%-3%		1-3	89%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-3	96%-3%		1-3	90%-3%		1-3	91%-3%		1-3	91%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)



# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LEDcandle/luster											
				LED classic-giant 40W E27 G200 / GOLD DIM LED classic-giant 40W E27 A160 / GOLD DIM LED classic-giant 40W E27 T65 / GOLD DIM			Master LEDCandle / LEDlustre DimTone 4-25W			Master LEDCandle / LEDlustre DimTone 6-40W			Master LEDCandle DimTone 8-60W		
				NEW											
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	1-3	87%-15%		2-18	96%-3%		2-12	93%-3%		2-12	90%-3%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	1-2	93%-7%		2-20	89%-3%		2-13	89%-3%				
Bticino	L4407	[ ]	60 – 250 W					N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	1-3	97%-13%		2-20	92%-3%		2-13	92%-3%				
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	1-3	92%-3%		2-25	91%-3%		2-17	91%-3%				
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	1-2	91%-12%		2-30	88%-3%		2-20	93%-3%		2-15	92%-3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	1-3	92%-13%		2-21	94%-3%		2-14	91%-3%		2-14	91%-3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	1-3	84%-16%		2-20	84%-3%		2-17	83%-3%		2-15	88%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)				2-20	88%-7%	<4	2-17	88%-5%	<6	2-17	99%-3%	
ELKO   Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	1-3	91%-16%		2-20	95%-3%		2-13	92%-3%		2-13	90%-3%	
ELKO   Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	91%-3%		2-15	88%-3%		2-11	87%-0%		2-11	90%-3%	
ELKO   Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	3	94%-17%		2-20	91%-3%		2-14	90%-3%		T.B.D.	T.B.D.	T.B.D.
Eltako	EVD6INPN-UC		400W 3-wire Push Module				T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-13	99%-3%	
Feller   Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)				2-20	95%-3%		2-13	92%-3%		2-13	90%-3%	
Feller   Schneider	40300 (SBD315)	[RLC]	300W										2-11	90%-3%	
Feller   Schneider	40420 (SBD420)	[RLC]	420W										T.B.D.	T.B.D.	T.B.D.
GIRA	1176-00/01	[RLC]	50 – 420W				2-20	95%-7%	<7	2-14	95%-5%	<9	2-14	99%-4%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	1-3	83%-4%		2-25	94%-3%		2-17	92%-3%				
Hager	EVN 011	[RC]	300VA					95%-4%	<7	2-10	96%-3%	<10	2-10	99%-3%	
Hager	EVN 012	[RC]	300W					95%-4%	<7	2-10	95%-3%	<10	2-10	99%-3%	
Hager	EVN 004	[RL]	500VA					95%-7%	<7	2-17	96%-4%	<11	2-10	99%-3%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-3	89%-17%		2-26	89%-3%		2-18	89%-3%		2-10	89%-3%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	1-3	83%-4%		2-25	93%-4%		2-17	92%-3%		2-15	90%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W					78%-7%	<6	2-4	77%-4%	<5	2-4	88%-3%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer				T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-10	94%-3%	
Legrand	774161	[RL]	40 – 400 W-Turn	3	95%-9%			N.A.	N.A.		N.A.	N.A.			
Legrand	78401	[RLC]	40 – 500W				2-20	95%-4%	<7	2-13	93%-4%	<9	2-13	99%-3%	
Legrand	67081	[RL]	40 – 400 W-Turn					N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn					N.A.	N.A.		N.A.	N.A.			
Legrand	67083	[RLC]	3 – 400W					N.A.	N.A.		N.A.	N.A.	2-5	87%-3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-3	92%-8%			N.A.	N.A.		N.A.	N.A.			
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	93%-3%		2-15	94%-3%		2-10	91%-3%		2-10	95%-3%	
Legrand	L4402N	[R]	60 – 500W					79%-4%		8-17	79%-4%		3-17	90%-3%	
Merten   Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)				2-20	95%-3%		2-13	92%-3%		2-13	90%-3%	
Merten   Schneider	SBD315RC (MEG5136-0000)	[RC]	315W				2-15	88%-3%		2-11	87%-3%		2-11	90%-3%	
Merten   Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA				2-20	91%-3%		2-14	90%-3%		T.B.D.	T.B.D.	T.B.D.
MK-Electric	K1535	[R]	65 – 450 W-Turn	1	68%-12%		2-23	79%-3%		2-15	77%-3%		2-15	80%-3%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	1-2	84%-8%		2-25	88%-3%		2-17	87%-3%		2-15	80%-3%	
MK-Electric	K4501 WHILV	[RLC]	180W					83%-3%		2-7	82%-3%		2-7	90%-3%	
MK-Electric	K4500 WHILV	[RLC]	400W					83%-3%			N.A.	N.A.	2-13	84%-3%	
NIKO	310-0280X	[LED]	2 – 100 VA				2-5	96%-5%		2-3	96%-4%		2-3	99%-3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W					82%-7%		2-4	82%-5%		2-4	89%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)				2-20	84%-3%		2-17	83%-3%		2-15	88%-3%	
RELCO	RP0977	[LED]	4-100W	1-3	91%-23%								2-3	99%-4%	
RELCO	RM0545	[LED]	4-100W	1-3	87%-7%								2-3	96%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W				2-15	88%-3%		2-11	87%-3%		2-11	90%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W				2-15	88%-3%		2-11	87%-3%		2-11	90%-3%	
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)				2-20	95%-3%		2-13	92%-3%		2-13	90%-3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W				2-15	88%-3%		2-11	87%-3%		2-11	90%-3%	
VADSBO	ED 350	[RC]	50 – 350W				2-18	88%-7%		2-12	84%-4%		2-12	90%-3%	
VADSBO	DRS 315	[RC]	50 – 315W				4-16	89%-4%		5-11	91%-4%	<12	3-11	80%-3%	
VADSBO	DU 250	[RC]	20 – 250W				2-13	86%-3%		2-8	79%-3%	<8	2-8	85%-3%	
Varilight	HQ3W	[R]	60-400W	1-3	89%-5%		2-20	91%-3%		2-13	90%-3%		2-13	90%-3%	
Varilight	ICT401 M	[RC]	20-400W				T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.		2-13	88%-3%	
Vimar	20148	[RL]	500W	1-3	94%-8%		6-25	90%-3%	<6	4-17	92%-3%	<4			
Vimar	14153	[R]					2-20	99%-3%		2-17	96%-3%	<7	2-17	93%-3%	
Vimar	20160	[RC]						89%-3%		2-10	89%-3%	<11	2-17	96%-3%	
Vimar	20162	[RL]	40 – 300W	1-3	93%-5%		6-15	92%-3%	<6	4-10	86%-3%	<4			
Philips Dynalite	DDLE801		(100W per channel)	1-3	89%-3%		2-20	89%-3%		2-17	91%-3%				
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-3	86%-3%		2-20	92%-3%		2-15	91%-3%				

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)





# Professional LED lamps MV range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



## KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load, or poor dimrange
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

				LED spot											
				Classic LED filament candle/lustre B35 3W-25W clear P45 3W-25W clear			LED capsule G9 2.5W-25W			Corepro R7s 118mm D 14W-100W			Corepro LEDlinear R7s 118mm D 14-120		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	2-8	99%-3%		3-20	96%-27%		1	89%-8%		1	94%-21%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	2-8	99%-3%		3-20	86%-23%		1	94%-3%		1	97%-16%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	2-8	99%-12%		3-20	85%-33%		1	91%-23%		1	98%-27%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	2-8	99%-3%		3-20	83%-9%		1	93%-3%		1	96%-3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	3-8	99%-3%		3-20	87%-6%		1	96%-3%		1	95%-15%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-8	99%-3%		3-20	98%-24%		1	93%-7%		1	97%-23%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-6	99%-3%		3-20	92%-3%		1	88%-3%		1	92%-21%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	97%-3%		3-20	97%-23%	<7	T.B.D.	T.B.D.	T.B.D.	1	96%-15%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-8	99%-3%		3-20	96%-30%		1	88%-10%		1	94%-21%	
ELKO  Schneider	SBD315RC (315 GLE)	[RC]	315W	3-8	99%-3%		3-20	95%-9%		1	89%-3%		1	93%-4%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	3-8	99%-3%			N.A.	N.A.	1	93%-3%			N.A.	N.A.
Eltako	EVD6INPN-UC		400W 3-wire Push Module	2-16	96%-3%		3-20	99%-15%		T.B.D.	T.B.D.	T.B.D.	1-3	97%-7%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-8	99%-3%		3-20	96%-30%		1	88%-10%				
Feller  Schneider	40300 (SBD315)	[RLC]	300W	3-8	99%-3%										
Feller  Schneider	40420 (SBD420)	[RLC]	420W	3-8	99%-3%										
GIRA	1176-00/01	[RLC]	50 – 420W	2-17	97%-3%		3-20	96%-39%	<12	T.B.D.	T.B.D.	T.B.D.	1-3	93%-25%	
GIRA	2390 00/ 100	[LED]	7 – 100W -Push (3wire)	2-8	99%-19%		3-18	91%-15%		1	89%-4%		1	92%-10%	
Hager	EVN 011	[RC]	300VA	2-12	96%-3%		3-20	98%-18%	<14	T.B.D.	T.B.D.	T.B.D.	1-3	95%-16%	
Hager	EVN 012	[RC]	300W	2-12	96%-3%		3-20	99%-28%	<14	T.B.D.	T.B.D.	T.B.D.	1-3	97%-17%	
Hager	EVN 004	[RL]	500VA	2-20	96%-3%		3-20	99%-28%	<15	T.B.D.	T.B.D.	T.B.D.	1-3	99%-18%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-8	99%-3%		3-20	96%-33%		1	90%-10%		1	94%-23%	
Jung	1271LEDDE	[LED]	3 – 100W -Push (3wire)	2-8	99%-3%		3-20	94%-3%		1	90%-3%		1	93%-9%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	2-5	93%-4%		3-10	86%-3%	<11	T.B.D.	T.B.D.	T.B.D.		84%-30%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	2-12	96%-3%		3-20	33%-3%	<10	T.B.D.	T.B.D.	T.B.D.		92%-10%	
Legrand	774161	[RL]	40 – 400 W-Turn	3-8	99%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	2-16	95%-3%		3-20	97%-3%	<13	T.B.D.	T.B.D.	T.B.D.	1-3	97%-11%	
Legrand	67081	[RL]	40 – 400 W-Turn	3-8	99%-3%			N.A.	N.A.		N.A.	N.A.	1	93%-30%	
Legrand	67082	[RL]	40 – 600 W-Turn	3-8	99%-3%			N.A.	N.A.		N.A.	N.A.	1	92%-11%	
Legrand	67083	[RLC]	3 – 400W	2-16	95%-3%			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		88%-6%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-8	99%-3%		3-20	97%-23%			N.A.	N.A.	1	96%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-8	99%-3%		3-20	99%-4%			N.A.	N.A.	1	99%-3%	
Legrand	L4402N	[R]	60 – 500W	3-20	95%-3%			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1	87%-22%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-8	99%-3%		3-20	96%-30%		1	88%-10%				
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-8	99%-3%		3-20	95%-9%		1	89%-3%				
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	3-8	99%-3%		T.B.D.	T.B.D.	T.B.D.	1	93%-3%				
MK-Electric	K1535	[R]	65 – 450 W-Turn	3-8	99%-3%		3-20	72%-19%		1	82%-10%		1	81%-15%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	3-8	99%-3%		3-10	82%-17%		1	88%-6%		1	89%-12%	
MK-Electric	K4501 WHILV	[RLC]	180W	3-9	96%-3%			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1-3	90%-12%	
MK-Electric	K4500 WHILV	[RLC]	400W	8-16	96%-3%			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1-3	90%-13%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-4	94%-3%		3-9	98%-8%		T.B.D.	T.B.D.	T.B.D.	1	98%-3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-5	96%-3%		3-10	76%-4%		T.B.D.	T.B.D.	T.B.D.	1-2	85%-4%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-6	99%-3%		3-20	92%-3%		1	88%-3%				
RELCO	RP0977	[LED]	4-100W	2-4	96%-3%								1	97%-27%	
RELCO	RMO545	[LED]	4-100W		N.A.	N.A.							1	89%-10%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	3-8	99%-3%		3-20	95%-9%		1	89%-3%				
Schneider	SBD315RC (ATD315/CCTO11533)	[RC]	315W	3-8	99%-3%		3-20	95%-9%		1	89%-3%				
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	2-8	99%-3%		3-20	96%-30%		1	88%-10%				
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-8	99%-3%		3-20	95%-9%		1	89%-3%				
VADSBO	ED 350	[RC]	50 – 350W	2-14	95%-3%		5-20	93%-34%		T.B.D.	T.B.D.	T.B.D.	1-3	99%-22%	
VADSBO	DRS 315	[RC]	50 – 315W	3-13	95%-3%			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 – 250W	2-10	85%-3%		3-20	92%-14%	<21	T.B.D.	T.B.D.	T.B.D.	1-3	82%-5%	<2
Varilight	HQ3W	[R]	60-400W	3-8	99%-3%		3-20	85%-14%		1	93%-3%		1	95%-6%	
Varilight	ICT401 M	[RC]	20-400W	3-16	90%-3%		3-20	85%-14%	<11				1-3	85%-2%	
Vimar	20148	[RL]	500W	2-8	99%-3%	<2		N.A.	N.A.	1	94%-4%		1	95%-12%	
Vimar	14153	[R]		5-20	96%-3%		3-20	98%-3%	<10	T.B.D.	T.B.D.	T.B.D.	1-3	96%-3%	
Vimar	20160	[RC]		2-20	96%-3%			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1-3	95%-6%	<2
Vimar	20162	[RL]	40 – 300W	2-8	99%-3%	<2	3-20	96%-18%	<21	1	90%-5%		1	94%-15%	
Philips Dynalite	DDLE801		(100W per channel)	5-8	94%-3%		3-20	97%-3%		1	88%-3%		1	97%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	2-8	95%-3%		3-20	97%-3%		1	91%-3%		1	99%-3%	

- Note :
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

Disclaimer:  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.lighting.philips.com/main/product s/coreproledlamps](http://www.lighting.philips.com/main/product s/coreproledlamps)







# Trueforce LED Industrial and retail



TrueForce LED HPI ND 110-88W (Replacement for 250W - HPI/SON/HPL)  
 TrueForce LED HPI ND 200-145W (Replacement for 400W - HPI/SON/HPL)

## Ballast - Igniter compatibility list

### KEY

	Good compatibility
	Limited compatibility
	No compatibility
	N. A. Combination not applicable
	Combination not tested

*This document is for information purposes and must be treated as recommendation. Philips attempted to provide accurate results, results are generated in lab conditions and might contain faults.*

The product is compatible with BHL/BSN ballast  
 The product is NOT suitable for direct mains input  
 The product is NOT compatible with electronic ballast  
 The product is NOT compatible with CWA type of ballast/transformer

#### BSN-series ballast type (or similar) combined with following igniter

Brand	Type	Art.nr	Mode	Trueforce 88-250W 9290013569 9290013568	Trueforce 145-400W 9290013570 9290013571
Without igniter	n.a.	n.a.	n.a.		
Philips	SN58	9136195799	semi-parallel		
		9137001349			
		9137001348			
		9137100105			
	9136195199				
	SKD578	9137006553 9137006554	semi-parallel		
	SI51	9136195199	parallel		
Vossloh Schwabe	Z250s	140425	series		
	Z400s	140427	series		
	Z400MK	142897	series		
	PZII000/1K	140617	parallel		
Tridonic	ZRM-2.5-ES/CT	87500086	series		
BAG	NI 400 LE 4K	10007322	series		
		10067389	parallel		
PARMAR	PAE40 0255	PAE400255	series		
		PXE07 0255	series		
ELT	AVS 400-D	3210232	series		
		3210442	semi-parallel		
Electrostart	ZX400-T	78.02.400.0-T	series		
Magnetek (May & Christe)	ZG4.5		series		

#### BHL-series ballast type (or similar) combined with following igniter

Brand	Type	Art.nr	Mode	Trueforce 88-250W 9290013569 9290013568	Trueforce 145-400W 9290013570 9290013571	
Without igniter	n.a.	n.a.	n.a.			
Philips	SI51	9136195199	parallel			
Vossloh Schwabe	Z250s	140425	series			
		Z400s	140427	series		
		Z400MK	142897	series		
		PZII000/1K	140617	parallel		
Tridonic	ZRM-2.5-ES/CT	87500086	series			
BAG	NI 400 LE 4K	10007322	series			
		10067389	parallel			
PARMAR	PAE400255	PAE400255	series			
		PXE07 0255	series			
ELT	AVS 400-D	3210232	series			
Electrostart	ZX400-T	78.02.400.0-T	series			
Magnetek (May & Christe)	ZG 4.5		series			

#### Note:

- The lamp is equipped with "Ignitor comfort logic" feature, that ensures the igniter will not operate.
- For enabling compatibility, the "Ignitor comfort logic" function will simulate the low light level at start up of HID lamps, which in some cases can be observed as a short reduction of the light output of the lamp.
- In rare cases the ignitor comfort logic cannot stop the igniter. This is visible as continuously flicker of the light. Philips Lighting advises to remove/disconnect the igniter.
- Instant ON/OFF – does not require to warm up or to cool down before restart.
- The compatibility of the lamp with the gear is measured in the laboratory at nominal voltage (230VAC). The performance in real applications can be different
- Manufacturers of ballasts and igniters can change the technical design of their product without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips Lighting cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in ballasts or igniters

#### Disclaimer:

Philips will not accept claims for any damage caused by implementing the recommendations in this document.



© Philips Lighting Holding B.V. 2018. 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.

02/2018  
Data subject to change.

[www.lighting.philips.com/main/products/masterled](http://www.lighting.philips.com/main/products/masterled)  
[www.philips.com/led-product-info](http://www.philips.com/led-product-info)  
[www.lighting.philips.com/main/support/purchase/installer](http://www.lighting.philips.com/main/support/purchase/installer)