

**PHILIPS**

Ledinaire

LED spot luminaires  
Compatibility list  
Professional Q2 2024



# Professional LED Mains Voltage range

## Recommended dimmer compatibility list for Mains Voltage Luminaires



### KEY

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	See note below.
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
	Dimmer lamp combination not tested

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

LED Luminaires					
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-10	100% - 0%		1-12	99% - 8%	
			N/A	N/A	N/A
			1-13	98% - 1%	
1-10	100% - 0%		1-20	99% - 0%	
1-10	LEL>10%		1-20	99% - 17%	
1-10	99% - 0%		1-17	99% - 0%	
			1-17	99% - 0%	
			1-67	98% - 0%	
			1-67	98% - 0%	
1-10	N/A		1-13	98% - 4%	
			1-11	98% - 0%	
			1-20	99% - 3%	
			1-13	99% - 0%	
			1-33	98% - 0%	
			1-33	98% - 0%	
			1-20	99% - 0%	
1-10	N/A		1-13	98% - 4%	
			1-11	98% - 0%	
			1-14	99% - 14%	
1-10	99% - 3%		N/A	N/A	N/A
			1-17	99% - 10%	
			N/A	N/A	N/A
			1-10	99% - 0%	
			1-17	99% - 0%	
			1-17	99% - 0%	
			1-17	99% - 0%	
1-10	100% - 0%		1-17	98% - 0%	
			1-17	99% - 0%	
			N/A	N/A	N/A
			1-4	98% - 17%	
			1-13	98% - 0%	
			1	98% - 7%	
1-10	N/A		1-13	98% - 4%	
1-10	100% - 0%		1-11	98% - 0%	
			1-3	98% - 1%	
1-10	97% - 0%		1-15	63% - 0%	
1-10	98% - 0%		1-17	98% - 0%	
			1-6	98% - 0%	
			N/A	N/A	N/A
			1-17	99% - 0%	
			1-33	98% - 0%	
			1-33	98% - 0%	
			1-20	99% - 0%	
			1-10	98% - 0%	
1-10	99% - 0%		1-17	99% - 0%	
			N/A	N/A	N/A
			1-17	99% - 0%	
			1-20	98% - 4%	
			1-20	98% - 0%	
1-10	100% - 1%		1-11	98% - 0%	
1-10	100% - 0%		1-13	98% - 4%	
			1-3	98% - 0%	
			N/A	N/A	N/A
1-10	100% - 2%		1-10	99% - 0%	
			1-20	99% - 0%	
			1-20	99% - 0%	
1-10	100% - 2%		1-13	98% - 0%	
			1-20	99% - 0%	
1-10	100% - 0%		1-17	98% - 0%	
			1-20	99% - 0%	
			1-33	98% - 4%	
1-10	100% - 0%		1-33	98% - 0%	
			1-33	98% - 0%	
			1-20	99% - 0%	
Philips Dynalite	DDLE801	(100W per channel)	1-10	100% - 0%	
Philips Dynalite	DDMC802 (913703243509)		1-10	100% - 0%	

Brand	Type	Load
Berker   INSTA	286710	[RC ] 20 ~ 360 W - Turn
Berker   INSTA	2973	[ R ] 60 ~ 400 W - Turn
Bticino   Legrand	BTN4411N (BTNT4411N, BTL4411N)	[LED] 3 - 75W - Tast
Busch Jaeger   ABB	2250 U	[R ] 60 ~ 600 W - Turn
Busch Jaeger   ABB	6513 U - 102	[RC ] 40 ~ 420 W - Turn
Busch Jaeger   ABB	6523 U	[LED] 2 ~ 100 VA-LED - Turn
Busch Jaeger   ABB	6526 U	[LED] 2 ~ 100 VA-LED - Push (2wire)
Busch Jaeger   ABB	6523 UR-103	[LED, R, L,C] 2 - 400W - Turn- Leading
		[LED, R, L,C] 2 - 400W - Turn- Trailing
ELKO   Schneider	SBD200LED (CCTEL10501)	[LED/RC] 4 ~ 200W(RC) 4~400W(RL)
ELKO   Schneider	SBD315RC (315 GLE)	[RC ] 315W
ELKO   EKO	EKO07-146/-147/-148/-149/-150/EKO30195	[RLC] 420W
Eltako	EVD61NPN-UC	400W 3-wire Push Module
Eltako	EUD61NPL-230V	[LED, R, C] 4 - 200W - Module-Leading
		[LED, R, C] 4 - 200W - Module-Trailing
Eltako	DL-PD-300W-RLC (33000009) Universal	10-300W, LED, Trailing
Feller   Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC] 4 ~ 200W(RC) 4~400W(RL)
Feller   Schneider	40300 (SBD315)	[RLC] 300W
GIRA	1176-00/01	[RLC] 50 ~ 420W
GIRA	2390 00/ 100	[LED] 7 ~ 100W - Push (3wire)
Gira   INSTA	5401 00	[LED, R, L, C] 3 - 100W/200W- Tast
Gira   INSTA	2450 00	[LED, R, L, C] 3 - 60W - Turn
Hager	EVN 011	[RC ] 300VA
Hager	EVN 012	[RC ] 300W
Hager	EVN 004	[RL ] 500VA
Hamilton	LEDIT-B100	5-100W,LED, Trailing
		5-100W,LED, Leading
Jung	1271LEDDE	[LED] 3 ~ 100W - Push (3wire)
Jung   INSTA	1711DE	
Jung   INSTA	1730DD	
Klik aan Klik uit	AWMD-250	[LED] 3~ 24W
Legrand	67083	[RLC] 3 ~ 400W
Legrand	L4402N	[R ] 60-500W
Merten   Schneider	SBD200LED (MEG5134-0000)	[LED/RC] 4 ~ 200W(RC) 4~400W(RL)
Merten   Schneider	SBD315RC (MEG5136-0000)	[RC ] 315W
Merten   Schneider	MEG5300-0001 (CCT99100)	[ RLC ] 20-420 VA
MK - Electric	K1535	[ R ] 65 ~ 450 W - Turn
MK - Electric	K1501 WHILV	[ R ] 60 ~ 500 W - Turn
MK - Electric	K4501 WHILV	[RLC] 180W
MK - Electric	K4500 WHILV	[RLC] 400W
NIKO	310-0280X	[LED] 2 ~ 100 VA
NIKO	310-02901	[LED, R, L, C] 3 - 200W - Tast
NIKO	310-03901	[LED, R, L, C] 3 - 200W - Turn
Osram	HALOTRONIC HTi DALI 315 DIM	3W-200W, LED,Trailing
PEHA	431HAN	[RL] 6-120W [LED] 6-60W
Philips	UID8670	[LED] 2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED] 4-100W
RELCO	RM0545	[LED] 4-100W
SE LK   Schneider	LK FUGA LED-S 120VA (506Dx219)	[LED, RL] 4 - 120W - Slider
SE LK   Schneider	LK OPUS 66 LED-S 120VA (506Nx219)	[LED, RL] 4 - 120W - Slider
Schneider	SBD315RC (SBD 315, SDD 315, ATD315, CCT011533)	[RC ] 315W
Schneider	SBD200 (WDE 002299)	[ ] 4~400VA - Turn Universal (2wire)
Schneider	SAE dimmer puck CCT99100	[LED, RL, RC] 4 - 20VA RL LED
Schneider	WDE006910/WDE002306	0-200W,LED,Trailing
VADSBO	VD300	[RC ] 50 ~350W
VADSBO	LDN200	0-200W,LED
VADSBO	VD200	[RLC] LEDs from 1-200VA, Trailing
Variilight	HQ3W	[R ] 60-400W
Variilight	MJP120	0-120W,LED
Vimar	20148	[RL ] 500W
Vimar	JQP401W	0-120W,LED
Vimar	Universal dimmer 20135.1	[LED] 3 - 200W - Tast
Vimar	Universal dimmer 20136.1	[LED] 3 - 200W - Turn- Leading
		[LED] 3 - 200W - Turn- Trailing
Zano	ZMO150	0W-150W, LED, Rot

## Notes:

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- #1) Dimmers are tested with the number of LED light sources mentioned in the column "Dimming performance". A number of LED light sources outside the listed range may result in less optimal behavior.  
Although not specifically tested, some dimmers can be loaded with more light sources than specified in this document.
- #1a) Most (non-LED dedicated) dimmers can be loaded with LED light sources up to 20% of dimmer specified maximum power. Example: Dimmer 400W -> 20% = 80W, which means that e.g. up to 16 pcs 5W LED light sources can be connected
- #1b) LED dimmers can be loaded up to the specified maximum dimmer power (Wattage).
- #2) Always study the packaging of LED light sources if these can be used in combination with occupancy/motion sensors.
- #3) Glowing means: when connected to a dimmer in its off-state, a LED light source may still emit a small, yet visible amount of light. This may e.g. occur if a low quantity of LED light sources is connected.
- #4) "Dimming range" color indications and criteria (all percentages relate to the LED light source full power):
  - Green cell: minimum dimming level is below 10% and maximum level at least 80%.
  - Yellow cell: minimum dimming level is between 10% and 20% (inclusive) AND maximum level is above or equal to 80%.
  - Red cell: not compatible.
  - Grey cell: the dimmer - LED light source combination is not applicable.
  - White cell: no data available.
- #5) Various dimmer suppliers offer "active loads" to optimize dimming performance in case of light source-dimmer system issues. (e.g. Busch Jaeger Compensator 6596).
- #6) This list is based on measurements performed in a lab environment at nominal mains voltage, different mains voltages may result in a different dimming range.
- #7) Dimmer manufacturers may change the technical design of their dimmer without informing Philips / Signify. Such changes may affect the performance when used in combination with LED light sources.
- #8) In general Philips dimmable LED light sources can be dimmed with any type of dimmer (type R, RL, RC or RLC).
- #9) Mixed loads may give unexpected dimming behavior or even result in defects, for which Philips / Signify can not be held responsible.
- #10) LED light source are dimmable across the indicated dimming range, but may exhibit minor flickering at distinct dim settings.
- #11) The information contained here is believed to be accurate at the time it was published, but is provided "AS IS".



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