

# Professional LEDlamps MV range

Recommended dimmer compatibility list for Mains Voltage lamps



**KEY**

x - y	Excellent dimming with x - y lamps, lamps can reach deep dim levels (below 10%)
x - y	These dimmers require more than 5 lamps as minimum load (LED's have much lower load (wattage) than traditional lightsources. Minimum dim level with the indicated dimmer will be somewhere between 10%-30%)
	Potential risk with flickering, limited dimming levels/range or unexpected behavior
N. A.	Dimmer lamp combination not applicable/relevant
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*

Brand	Type	Type	Load	LEDspots																				
				Master LEDspot MV Dim Tone 4-35W GU10			Master LEDspot MV Dim Tone 4.5-50W GU10			Master LEDspot MV Value 3.5-35W GU10			Master LEDspot MV Value 4.3-50W GU10			Master LEDspot MV 4-35W GU10 CR I90			Master LEDspot MV 5.4-50W GU10 CR I90			Master LEDspot MV 5.5W-50W PAR20		
				NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW		
Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Glowing				
Berker   INSTA	286710	RC	20 - 360 W - Turn	2-18	99% - 1%	2-16	91% - 5%	2-21	92% - 22%		2-10	90% - 20%		2-18	91% - 1%		2-13	93% - 1%	3-13	86% - 1%				
Berker   INSTA	283010	R	60 - 400 W - Turn	2-20	95% - 5%	2-18	96% - 4%	2-23	95% - 14%		2-10	94% - 8%		2-20	93% - 1%		2-15	96% - 1%	3-15	88% - 2%				
Busch Jaeger   ABB	2200 U - 503	R	60 - 400 W - Turn	2-20	94% - 6%	2-19	94% - 4%	2-23	95% - 17%	< 2	2-10	94% - 16%	< 2	2-20	92% - 1%		2-15	97% - 1%	3-15	90% - 10%				
Busch Jaeger   ABB	2247 U	R	60 - 400 W - Turn	2-20	94% - 4%	2-19	95% - 2%	2-29	95% - 3%		2-10	92% - 2%		2-25	93% - 1%		2-19	97% - 1%	3-18	89% - 1%				
Busch Jaeger   ABB	2250 U	RL	20 - 500 W - Turn	2-20	97% - 5%	2-19	96% - 3%	2-34	95% - 3%		2-10	92% - 1%		2-30	95% - 1%		2-22	98% - 1%	3-22	90% - 1%				
Busch Jaeger   ABB	6513 U - 102	R	40 - 420 W - Turn	2-20	97% - 6%	2-19	96% - 5%	2-24	96% - 22%		2-10	96% - 20%		2-21	94% - 1%			N.A.	3-15	92% - 1%				
Busch Jaeger   ABB	6523 U	LED	2 - 100 VA-LED - Turn	2-20	93% - 2%	2-19	92% - 2%	2-20	90% - 1%		2-10	- 1%		2-20	90% - 1%		2-19	92% - 1%	3-18	85% - 1%				
Dynalite	DDLE801			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.	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.			
Dynalite	DDMC-GRMSPLUS			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.	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.			
ELKO   Schneider	SBD200LED (CCTELI0501)	LED/RC	4 - 200 W (RC) 4 - 40 W (RL)	2-20	89% - 6%	2-18	91% - 6%	2-23	91% - 23%		2-10	88% - 20%		2-20	90% - 1%		2-15	93% - 1%	3-15	88% - 1%				
ELKO   Schneider	SBD315RC (315 GLE)	RC	315 W	2-16	92% - 4%	2-14	92% - 3%	2-18	94% - 5%		2-10	88% - 2%		2-16	90% - 1%		2-12	89% - 1%	3-11	90% - 1%				
ELKO   Schneider	SBD420RCRL (CCTELI3011)	RLC	315 W	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.	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	SBD200LED (CCTCHI0601)	LED/RC	4 - 200 W (RC) 4 - 40 W (RL)	2-20	89% - 6%	2-18	91% - 6%	2-23	91% - 23%		2-10	88% - 20%		2-20	90% - 1%		2-15	93% - 1%	3-15	88% - 1%				
GIRA	2390 OO/ 100	LED	7 - 100 W - Push (3wire)	6-20	90% - 3%	6-19	90% - 2%	2-29	91% - 10%	< 2	2-10	92% - 8%		2-25	90% - 1%		2-19	94% - 1%	3-18	90% - 21%				
Jung	225 TDE	RC	20 - 525 W - Turn	2-20	93% - 6%	2-19	93% - 6%	2-30	94% - 25%		2-10	92% - 24%		2-26	92% - 1%		2-19	95% - 1%	3-19	85% - 1%				
Jung	1271LEDDE	LED	3 - 100 W - Push (3wire)	6-20	91% - 9%	5-19	91% - 8%	2-29	91% - 38%	< 2	2-10	92% - 36%		2-25	90% - 2%		2-19	95% - 18%	3-18	90% - 21%				
Legrand	67081	RL	40 - 400 W - Turn		N.A.		N.A.		N.A.	N.A.	3-10	96% - 16%			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.		N.A.		N.A.	N.A.			
Legrand	67084	RLC	8 - 300 VA - Push LED (3wire)	9-20	95% - 1%	10-18	95% - 4%	2-23	90% - 6%	< 4	2-10	88% - 1%	< 5		N.A.	N.A.		N.A.	3-15	90% - 1%				
Legrand	67085 (078406)	RLC	8 - 300 VA - Push LED (3wire)	2-15	94% - 2%	2-15	100% - 2%	2-17	97% - 3%		2-10	96% - 1%		2-15	98% - 1%			N.A.	3-11	95% - 1%				
Merten   Schneider	SBD200LED (MEG5134-0000)	LED/RC	4 - 200 W (RC) 4 - 40 W (RL)	2-20	89% - 6%	2-18	91% - 6%	2-23	91% - 23%		2-10	88% - 20%		2-20	90% - 1%		2-15	93% - 1%	3-15	88% - 1%				
Merten   Schneider	SBD315RC (MEG5136-0000)	RC	315 W	2-16	92% - 4%	2-14	92% - 3%	2-18	94% - 5%		2-10	88% - 2%		2-16	90% - 1%		2-12	89% - 1%	3-11	90% - 1%				
Merten   Schneider	SBD420RCRL (MEG5138-0000)	RLC	20 - 420 VA	2-20	91% - 3%	2-15	92% - 3%		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	3-15	90% - 1%				
MK - Electric	KI535	R	65 - 450 W - Turn	2-20	80% - 4%	2-19	81% - 3%	2-26	83% - 12%		2-10	80% - 14%		2-23	80% - 1%		2-17	83% - 1%	3-16	83% - 2%				
MK - Electric	KI501 WHILV	R	60 - 500 W - Turn	2-20	85% - 4%	2-19	87% - 3%	2-10	88% - 14%		2-10	86% - 14%		2-25	86% - 1%		2-19	90% - 1%	3-18	83% - 1%				
Philips	UID8670	LED	2 - 100 VA-LED - Push (3wire)	2-20	93% - 2%	2-19	92% - 2%	2-20	90% - 1%		2-10	92% - 1%		2-20	90% - 1%		2-19	92% - 1%	3-18	85% - 1%				
Schneider	SBD315RC (SBD 315, SDD 315)	RC	315 W	2-16	92% - 4%	2-14	92% - 3%	2-18	94% - 5%		2-10	88% - 2%		2-16	90% - 1%		2-12	89% - 1%	3-11	90% - 1%				
Schneider	SBD315RC (ATD315)(CCTO11533)	RC	315 W	2-16	92% - 4%	2-14	92% - 3%	2-18	94% - 5%		2-10	88% - 2%		2-16	90% - 1%		2-12	89% - 1%	3-11	90% - 1%				
Schneider	SBD200 (WDE 002299)		4 - 400 VA - Turn Universal (2wire)	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.	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.			
Schneider	SBD315RC (SBD 315)	RC		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.	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.			
Varilight	HQ3W	R		2-20	93% - 4%	2-18	96% - 3%	2-23	92% - 8%		2-10	92% - 6%		2-20	92% - 1%		2-15	97% - 1%	3-15	88% - 1%				
Vimar	20148	RL	500 W		N.A.		N.A.	2-29	95% - 16%	< 30	3-10	92% - 8%	< 11	3-25	93% - 1%		2-19	94% - 1%	3-18	89% - 2%				
Vimar	20162	RL	40 - 300 W		N.A.		N.A.	2-17	91% - 13%	< 18	2-10	88% - 8%	< 11	2-15	90% - 1%		2-11	92% - 1%	3-11	88% - 1%				

- Note :
- #1) t.b.d. fields are still under evaluation and will be published in Sept update.
  - #2) Unexpected behaviour can occur outside the range of specified number of lamps.
  - #3) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #4) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to minimize flicker issues due to low LED loads.

x-y	Excellent dimming with x - y lamps, lamps can reach deep dim levels (below 10%)
x-y	These dimmers require more than 5 lamps as minimum load (LED's have much lower load (wattage) than traditional lightsources. Minimum dim level with the indicated dimmer will be somewhere between 10%-30%)
	Potential risk with flickering, limited dimming levels/range or unexpected behavior
N.A.	Dimmer lamp combination not applicable/relevant
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

Brand	Type	Type	Load	LEDspots																				
				CorePro LEDspot MV 4.5W-40W R50			Master LEDbulb clear 6W-40W			Master LEDbulb clear 9W-60W			CorePro LEDbulb 6W-40W			CorePro LEDbulb 9.5W-60W			Master LEDcandle / LEDlustre MV 4-25W		Master LEDcandle / LEDlustre MV 6-40W			
				Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Dimming Performance	Dimming Range		
Berker   INSTA	286710	RC	20 - 360 W - Turn	2-10	90% - 20%		1-3	87% - 3%		1-3	98% - 4%		1-3	94% - 2%		1-3	95% - 3%		2-18	96% - 2%	2-12	93% - 2%		
Berker   INSTA	283010	R	60 - 400 W - Turn	2-10	94% - 8%		1-3	90% - 1%		1-3	95% - 3%		1-3	96% - 2%		1-3	92% - 11%		2-20	89% - 1%	2-13	89% - 1%		
Busch Jaeger   ABB	2200 U - 503	R	60 - 400 W - Turn	2-10	94% - 16%	< 2	1-3	93% - 3%		1-3	94% - 5%		1-3	98% - 9%		1-3	94% - 15%		2-20	92% - 1%	2-13	92% - 1%		
Busch Jaeger   ABB	2247 U	R	60 - 400 W - Turn	2-10	92% - 2%		1-3	90% - 1%		1-3	95% - 1%		1-3	90% - 6%		1-3	95% - 2%		2-25	91% - 1%	2-17	91% - 1%		
Busch Jaeger   ABB	2250 U	RL	20 - 500 W - Turn	2-10	92% - 1%		1-3	92% - 1%		1-3	95% - 1%		1-3	99% - 2%		1-3	92% - 1%		2-30	88% - 1%	2-20	93% - 1%		
Busch Jaeger   ABB	6513 U - 102	R	40 - 420 W - Turn	2-10	96% - 20%		1-3	94% - 8%		1-3	96% - 5%		1-3	98% - 5%		1-3	92% - 4%		2-21	94% - 2%	2-14	91% - 2%		
Busch Jaeger   ABB	6523 U	LED	2 - 100 VA-LED - Turn	2-10	92% - 1%		1-3	86% - 1%		1-3	89% - 1%		1-3	94% - 2%		1-3	94% - 1%		2-20	84% - 1%	2-17	83% - 1%		
Dynalite	DDL801			T.B.D.	T.B.D.	T.B.D.	1-3	85% - 1%		1-3	86% - 1%		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.	T.B.D.		
Dynalite	DDMC-GRMSPLUS			T.B.D.	T.B.D.	T.B.D.	1-3	92% - 1%		1-3	93% - 1%		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.	T.B.D.		
ELKO   Schneider	SBD200LED (CCTEL10501)	LED/RC	4 - 200 W (RC) 4 - 40 W (RL)	2-10	88% - 20%		1-3	88% - 3%		1-3	90% - 4%		3	91% - 3%		1-3	91% - 7%		2-20	95% - 2%	2-13	92% - 2%		
ELKO   Schneider	SBD315RC (315 GLE)	RC	315 W	2-10	88% - 2%		1-3	93% - 2%		1-3	92% - 2%		1-3	93% - 2%		1-3	98% - 1%		2-15	88% - 1%	2-11	87% - 0%		
ELKO   Schneider	SBD420RCRL (CCTEL13011)	RLC	315 W	T.B.D.	T.B.D.	T.B.D.	1-3	89% - 2%		1-3	95% - 1%		1-3	91% - 2%		1-3	93% - 2%		T.B.D.	T.B.D.	T.B.D.	T.B.D.		
Feller   Schneider	SBD200LED (CCTCH10601)	LED/RC	4 - 200 W (RC) 4 - 40 W (RL)	2-10	88% - 20%		1-3	88% - 3%		1-3	90% - 4%		3	91% - 3%		1-3	91% - 7%		2-20	95% - 2%	2-13	92% - 2%		
GIRA	2390 OO/ 100	LED	7 - 100 W - Push (3wire)	2-10	92% - 8%		1-3	86% - 1%		1-3	91% - 1%		1-3	94% - 3%		1-3	99% - 2%		2-25	94% - 1%	2-17	92% - 1%		
Jung	225 TDE	RC	20 - 525 W - Turn	2-10	92% - 24%		1-3	93% - 3%		1-3	96% - 5%		1-3	92% - 8%		1-3	93% - 7%		2-26	89% - 2%	2-18	89% - 2%		
Jung	1271LEDDE	LED	3 - 100 W - Push (3wire)	2-10	92% - 36%		1-3	87% - 7%		1-3	91% - 7%		1-3	95% - 3%		1-3	93% - 1%		2-25	93% - 4%	2-17	92% - 3%		
Legrand	67081	RL	40 - 400 W - Turn	3-10	96% - 16%			N.A.	N.A.		N.A.	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.		N.A.	N.A.		N.A.	N.A.	N.A.		
Legrand	67084	RLC	8 - 300 VA - Push LED (3wire)	2-10	88% - 1%	< 5	1-3	95% - 1%		1-3	95% - 1%			98% - 2%			92% - 1%			N.A.		N.A.		
Legrand	67085 (078406)	RLC	8 - 300 VA - Push LED (3wire)	2-10	96% - 1%		1-3	88% - 17%		1-3	95% - 1%			96% - 1%			97% - 1%		2-15	94% - 1%	2-10	91% - 1%		
Merten   Schneider	SBD200LED (MEG5134-0000)	LED/RC	4 - 200 W (RC) 4 - 40 W (RL)	2-10	88% - 20%		1-3	88% - 3%		1-3	90% - 4%		3	91% - 3%		1-3	91% - 7%		2-20	95% - 2%	2-13	92% - 2%		
Merten   Schneider	SBD315RC (MEG5136-0000)	RC	315 W	2-10	88% - 2%		1-3	93% - 2%		1-3	92% - 2%		1-3	93% - 2%		1-3	98% - 1%		2-15	88% - 1%	2-11	87% - 1%		
Merten   Schneider	SBD420RCRL (MEG5138-0000)	RLC	20 - 420 VA		N.A.	N.A.	1-3	89% - 2%		1-3	95% - 1%		1-3	91% - 2%		1-3	93% - 2%		2-20	91% - 1%	2-14	90% - 1%		
MK - Electric	K1535	R	65 - 450 W - Turn	2-10	80% - 14%			N.A.	N.A.	1-3	80% - 2%		1-3	82% - 2%		1-3	84% - 6%		2-23	79% - 1%	2-15	77% - 1%		
MK - Electric	K1501 WHILV	R	60 - 500 W - Turn	2-10	86% - 14%		1-3	85% - 1%		1-3	90% - 2%		1-3	89% - 1%		1-3	92% - 1%		2-25	88% - 1%	2-17	87% - 1%		
Philips	UID8670	LED	2 - 100 VA-LED - Push (3wire)	2-10	92% - 1%		1-3	86% - 1%		1-3	89% - 1%		1-3	94% - 2%		1-3	94% - 1%		2-20	84% - 1%	2-17	83% - 1%		
Schneider	SBD315RC (SBD 315, SDD 315)	RC	315 W	2-10	88% - 2%		1-3	93% - 2%		1-3	92% - 2%		1-3	93% - 2%		1-3	98% - 1%		2-15	88% - 1%	2-11	87% - 1%		
Schneider	SBD315RC (ATD315)(CCT011533)	RC	315 W	2-10	88% - 2%		1-3	93% - 2%		1-3	92% - 2%		1-3	93% - 2%		1-3	98% - 1%		2-15	88% - 1%	2-11	87% - 1%		
Schneider	SBD200 (WDE 002299)		4 - 400 VA - Turn Universal (2wire)	T.B.D.	T.B.D.	T.B.D.	1-3	88% - 3%		1-3	90% - 4%		3	91% - 3%		1-3	91% - 7%		T.B.D.	T.B.D.	T.B.D.	T.B.D.		
Schneider	SBD315RC (SBD 315)	RC		T.B.D.	T.B.D.	T.B.D.	1-3	93% - 2%		1-3	90% - 4%		1-3	93% - 2%		1-3	98% - 1%		T.B.D.	T.B.D.	T.B.D.	T.B.D.		
Varilight	HQ3W	R		2-10	92% - 6%		1-3	92% - 1%		1-3	99% - 1%		1-3	95% - 2%		1-3	95% - 3%		2-20	91% - 1%	2-13	90% - 1%		
Vimar	20148	RL	500 W	3-10	92% - 8%	< 11		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-3	94% - 1%		6-25	90% - 1%	4-17	92% - 1%		
Vimar	20162	RL	40 - 300 W	2-10	88% - 8%	< 11		N.A.	N.A.		N.A.	N.A.	1-3	95% - 5%		1-3	88% - 1%		6-15	92% - 1%	4-10	86% - 2%		

- Note :
- #1) t.b.d. fields are still under evaluation and will be published in Sept update.
  - #2) Unexpected behaviour can occur outside the range of specified number of lamps.
  - #3) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  - #4) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to minimize flicker issues due to low LED loads.

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