

# 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
	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 DimTone 4-35 W GU10			MASTER LEDspot MV DimTone 4.5-50 W GU10			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	2-18	99%-3%		2-16	91%-5%		2-18	92%-7%		2-13	92%-6%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	2-20	95%-5%		2-18	96%-4%		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.		N.A.	N.A.
Busch Jaeger  ABB	2200 U - 503	[R]	60 – 400 W - Turn	2-20	94%-6%		2-19	94%-4%		2-18	92%-6%		2-15	96%-5%	
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	2-20	94%-4%		2-19	95%-3%		2-20	92%-3%		2-18	96%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	2-20	97%-5%		2-19	96%-3%		2-20	91%-3%		2-20	97%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	2-20	97%-6%		2-19	96%-5%		2-19	95%-6%		2-15	96%-6%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	2-20	93%-3%		2-19	92%-3%		2-20	89%-3%		2-18	93%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	2-20	91%-8%	< 8	2-20	89%-6%	< 8	2-20	96%-4%		2-18	97%-6%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-20	89%-6%		2-18	91%-6%		2-18	91%-7%		2-15	97%-4%	
ELKO  Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-16	92%-4%		2-14	92%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	2-20	91%-3%		2-15	92%-3%		2-19	93%-3%		T.B.D.	T.B.D.	T.B.D.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	2-20	95%-30%		T.B.D.	T.B.D.	T.B.D.	2-18	98%-3%		2-15	98%-4%	< 16
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)	2-20	89%-6%	T.B.D.	2-18	91%-6%	T.B.D.	2-18	91%-7%		2-15	97%-4%	
GIRA	1176-00/01	[RLC]	50 – 420 W	2-20	95%-8%	< 11	2-19	94%-6%	< 11	2-19	96%-10%		2-15	95%-8%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	6-20	90%-3%	< 7	6-19	90%-3%	< 7	2-15	96%-6%		2-16	91%-4%	
Hager	EVN 011	[RC]		2-20	98%-3%	< 16	2-20	96%-3%	< 14	2-13	98%-3%	< 12	2-11	98%-5%	< 12
Hager	EVN 012	[RC]	300 W	2-15	96%-3%	< 16	2-13	96%-3%	< 13	2-13	98%-4%	< 12	2-11	97%-5%	< 12
Hager	EVN 004	[RL]		2-20	96%-3%	< 16	2-22	94%-3%	< 15	2-20	98%-3%		2-18	97%-5%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	2-20	93%-6%		2-19	93%-6%		2-20	92%-7%		2-16	93%-7%	
Jung	1271LEDD	[LED]	3 – 100 W - Push (3wire)	6-20	91%-9%	< 7	5-19	91%-8%	< 6	2-20	89%-11%		2-16	91%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	2-6	84%-3%					2-5	88%-3%			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.	T.B.D.	T.B.D.	T.B.D.	2-13	90%-3%		2-11	91%-4%	
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	2-20	94%-4%	< 10	2-18	94%-3%	< 9	2-18	78%-3%	< 3	2-15	95%-3%	< 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.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400 W	2-20	93%-4%	< 5		91%-3%	< 4	2-3	90%-1%			N.A.	N.A.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	9-20	95%-3%	< 10	10-18	95%-4%	< 10	2-18	94%-4%			N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	2-15	94%-3%		2-15	100%-3%			N.A.	N.A.	2-11	98%-3%	
Legrand	L4402N	[R]	60-500 W	10-20	88%-6%		6-20	85%-4%		10-20	88%-4%		5-18	88%-7%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	2-20	89%-6%		2-18	91%-6%		2-18	91%-7%		2-15	97%-4%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-16	92%-4%		2-14	92%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-20	91%-3%		2-15	92%-3%		2-19	93%-3%		T.B.D.	T.B.D.	T.B.D.
MK - Electric	K1535	[R]	65 – 450 W - Turn	2-20	80%-4%		2-19	81%-3%		2-20	83%-4%		2-16	84%-5%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	2-20	85%-4%		2-19	87%-3%		2-20	88%-4%		2-16	89%-5%	
MK - Electric	K4501 WHILV	[RLC]			86%-4%		2-10	85%-3%		2-10	90%-2%		2-9	90%-4%	
MK - Electric	K4500 WHILV	[RLC]			86%-4%		2-14	85%-3%		2-14	89%-2%		2-15	89%-4%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	99%-6%		2-4	96%-4%		2-4	97%-3%		2-4	99%-2%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	2-6	86%-6%		2-5	85%-6%		2-5	90%-3%		2-4	88%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	2-20	93%-3%		2-19	92%-3%		2-20	89%-3%		2-18	93%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-16	92%-4%		2-14	92%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	2-16	92%-4%		2-14	92%-3%		2-14	92%-3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	2-20	89%-6%		2-18	91%-6%		2-18	91%-7%		2-15	97%-4%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-16	92%-4%		2-14	92%-3%		2-14	92%-3%		2-11	92%-3%	
VADSBO	ED 350	[RC]	50 – 350 W	2-18	89%-8%		2-16	87%-6%		2-16	92%-6%		2-13	91%-8%	
VADSBO	DRS 315	[RC]	50 – 315 W	2-16	94%-5%		2-14	94%-4%		8-14	95%-4%	< 15	3-11	93%-6%	< 12
VADSBO	DU 250	[RC]	20 – 250 W	2-13	98%-4%		2-11	84%-4%		2-11	89%-3%	< 12	2-9	85%-3%	< 10
Varilight	HQ3W	[R]		2-20	93%-4%		2-18	96%-3%		3-18	91%-3%		2-15	96%-3%	
Vimar	20148	[RL]	500 W		N.A.	N.A.		N.A.	N.A.	2-20	93%-4%	< 4	2-16	95%-4%	< 17
Vimar	14153	[R]		2-20	98%-3%	< 10	2-20	96%-3%	< 10	2-20	98%-3%		2-18	99%-3%	
Vimar	20160	[RC]		2-15	93%-4%		2-13	91%-3%		2-13	94%-1%	< 14	2-18	96%-3%	< 17
Vimar	20162	[RL]	40 – 300 W		N.A.	N.A.		N.A.	N.A.	2-13	91%-3%	< 10	2-11	90%-4%	< 12
Dynalite	DDLE801		(per channel)	2-20	93%-3%		2-20	91%-3%		T.B.D.	T.B.D.	T.B.D.	5-16	92%-3%	
Dynalite	DDMC-GRMSPLUS		(per channel)	2-20	94%-3%		2-20	94%-3%		T.B.D.	T.B.D.	T.B.D.	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 recommends 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 light level as lab condition.
  - #8) Dimmer manufacturers 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.

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## 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
	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 spot MV 4.4-35 W GU10			Classic LED spot MV 5.5-50 W GU10			MASTER LEDspot MV Value 3.5-35 W GU10			MASTER LEDspot MV Value 5-50 W 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	2-20	91%-25%		2-15	85%-19%		2-21	92%-22%		2-10	90%-20%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	2-20	95%-24%		2-15	88%-19%		2-23	95%-14%		2-10	94%-8%	
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%		2-23	95%-17%	< 2	2-10	94%-16%	< 2
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	2-20	93%-10%		2-18	97%-6%		2-29	95%-3%		2-10	92%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	2-20	96%-7%		2-20	98%-4%		2-34	95%-3%		2-10	92%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	2-20	94%-23%		2-15	87%-20%		2-24	96%-22%		2-10	96%-20%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	2-20	90%-2%		2-20	93%-17%		2-20	90%-3%		2-10	92%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	2-20	96%-24%		2-18	96%-18%		2-20	87%-33%	< 3	2-20	89%-29%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-20	92%-29%		2-15	85%-23%		2-23	91%-23%		2-10	88%-20%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315 W	2-14	91%-6%		2-11	91%-5%		2-18	94%-5%		2-10	88%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	2-19	94%-14%		2-15	97%-13%			N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	2-14	99%-15%	< 19	2-15	99%-14%	< 16	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 – 200 W(RC) 4 – 400 W(RL)	2-20	92%-29%		2-15	85%-23%		2-23	91%-23%		2-10	88%-20%	
GIRA	1176-00/01	[RLC]	50 – 420 W	2-19	94%-36%		2-15	95%-32%		2-20	96%-31%		2-20	94%-27%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	2-13	97%-13%		2-18	90%-14%		2-29	91%-10%	< 2	2-10	92%-8%	
Hager	EVN 011	[RC]		2-14	97%-19%	< 6	2-11	97%-16%	< 12	2-17	96%-13%	< 3	2-14	98%-13%	< 2
Hager	EVN 012	[RC]	300 W	2-14	98%-19%	< 5	2-11	97%-16%	< 12	2-17	98%-13%	< 3	2-14	98%-13%	< 7
Hager	EVN 004	[RL]		2-20	98%-19%		2-18	97%-16%		2-20	98%-16%	< 19	2-20	98%-13%	< 8
Jung	225 TDE	[RC]	20 – 525 W - Turn	2-20	92%-26%		2-15	87%-22%		2-30	94%-25%		2-10	92%-24%	
Jung	1271LEDD	[LED]	3 – 100 W - Push (3wire)	2-20	93%-37%		2-20	88%-35%		2-29	91%-38%	< 2	2-10	92%-36%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	2-5	88%-3%		2-4	87%-37%		2-7	84%-29%	< 3	2-6	81%-28%	< 7
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	2-14	93%-3%			N.A.	N.A.	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.	3-10	92%-8%	< 4
Legrand	78401	[RLC]	40 – 500W	2-18	96%-3%	< 3	2-15	92%-16%	< 3	2-20	93%-13%	< 5	2-19	93%-13%	
Legrand	67081	[RL]	40 – 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-10	96%-16%	
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 – 400 W	2-3	89%-12%			N.A.	N.A.			N.A.		89%-10%	
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)	2-18	98%-20%		2-15	88%-15%		2-23	90%-6%	< 4	2-10	88%-3%	< 5
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)		N.A.	N.A.	2-11	99%-3%		2-17	97%-3%		2-10	96%-3%	
Legrand	L4402N	[R]	60-500 W	8-20	91%-30%		3-18	86%-28%		10-20	84%-24%		5-20	83%-25%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	2-20	92%-29%		2-15	85%-23%		2-23	91%-23%		2-10	88%-20%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-14	91%-6%		2-11	91%-5%		2-18	94%-5%		2-10	88%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-19	94%-14%		2-15	97%-13%			N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	[R]	65 – 450 W - Turn	3-20	85%-20%		2-15	77%-15%		2-26	83%-12%		2-10	80%-14%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	3-20	89%-19%		2-18	81%-17%		2-10	88%-14%		2-10	86%-14%	
MK - Electric	K4501 WHILV	[RLC]		3-10	89%-19%		2-8	90%-19%		3-13	87%-13%		2-10	85%-13%	
MK - Electric	K4500 WHILV	[RLC]		3-15	90%-20%		2-15	88%-19%			87%-13%		2-15	85%-13%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	97%-8%		2-4	97%-7%		2-6	98%-24%		2-5	97%-23%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	2-5	89%-10%		2-4	87%-10%		2-7	87%-31%		2-6	85%-29%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	2-20	90%-3%		2-20	93%-17%		2-20	90%-3%		2-10	92%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-14	91%-6%		2-11	91%-5%		2-18	94%-5%		2-10	88%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	2-14	91%-6%		2-11	91%-5%		2-18	94%-5%		2-10	88%-3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	2-20	92%-29%		2-15	85%-23%		2-23	91%-23%		2-10	88%-20%	
Schneider	SBD315RC (SBD 315)	[RC]	315	2-14	91%-6%		2-11	91%-5%		2-18	94%-5%		2-10	88%-3%	
VADSBO	ED 350	[RC]	50 – 350 W	2-16	93%-34%		2-13	88%-29%		2-20	91%-29%		2-15	88%-27%	
VADSBO	DRS 315	[RC]	50 – 315 W	8-14	95%-24%	< 15	3-11	97%-21%	< 12	10-18	93%-20%		2-15	93%-17%	< 11
VADSBO	DU 250	[RC]	20 – 250 W	2-11	89%-11%	< 12	2-9	89%-9%	< 10	2-14	89%-20%		2-12	83%-8%	< 11
Varilight	HQ3W	[R]		2-18	98%-14%		2-15	88%-8%		2-23	92%-8%		2-10	92%-6%	
Vimar	20148	[RL]	500 W	2-20	94%-17%		2-18	88%-16%	< 4	2-29	95%-16%	< 30	3-10	92%-8%	< 11
Vimar	14153	[R]		2-20	98%-3%		2-18	97%-9%			98%-3%		2-20	98%-3%	
Vimar	20160	[RC]		2-14	94%-13%	< 15	2-18	94%-12%	< 19	2-17	91%-9%		2-14	92%-8%	< 11
Vimar	20162	[RL]	40 – 300 W	3-13	93%-14%		2-11	84%-11%	< 4	2-17	91%-13%	< 18	2-10	88%-8%	< 11
Dynalite	DDLE801		(per channel)	T.B.D.	T.B.D.	T.B.D.	2-18	88%-9%		2-20	91%-9%		2-20	88%-8%	
Dynalite	DDMC-GRMSPLUS		(per channel)	T.B.D.	T.B.D.	T.B.D.	2-16	90%-3%		2-20	93%-4%		2-20	97%-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 recommends 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.

# 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
	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 4-35 W GU10 CR190			MASTER LEDspot MV 5.4-50 W GU10 CR19			MASTER LEDspot MV 5.5-50 W PAR20			MASTER LEDspot MV 8.5-75 W 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	2-18	91%-3%		2-13	93%-3%		3-13	86%-3%		1-8	92%-9%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	2-20	93%-3%		2-15	96%-3%		3-15	88%-3%		1-9	95%-10%	
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	2-20	92%-3%		2-15	97%-3%		3-15	90%-10%		2-5	95%-18%	
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	2-25	93%-3%		2-19	97%-3%		3-18	89%-3%		1-12	94%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	2-30	95%-3%		2-22	98%-3%		3-22	90%-3%		1-10	98%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	2-21	94%-3%			N.A.		3-15	92%-3%		1-10	94%-8%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	2-20	90%-3%		2-19	92%-3%		3-18	85%-3%		1-20	95%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	2-20	89%-3%		2-19	88%-9%		T.B.D.	T.B.D.	T.B.D.	2-12	95%-9%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-20	90%-3%		2-15	93%-3%		3-15	88%-3%		1-9	93%-12%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3-11	90%-3%		1-7	92%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W		N.A.	N.A.		N.A.	N.A.	3-15	90%-3%		1-10	94%-4%	
Eltako	EVD61NPN-UC		400 W 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.	2-9	98%-4%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)	2-20	90%-3%		2-15	93%-3%		3-15	88%-3%		T.B.D.	T.B.D.	T.B.D.
GIRA	1176-00/01	[RLC]	50 – 420 W	2-20	93%-3%		2-16	91%-3%		T.B.D.	T.B.D.	T.B.D.	2-10	95%-15%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	2-25	90%-3%		2-19	94%-3%		3-18	90%-21%		1-12	95%-3%	
Hager	EVN 011	[RC]		2-15	93%-3%		2-11	97%-3%		T.B.D.	T.B.D.	T.B.D.	2-7	97%-6%	
Hager	EVN 012	[RC]	300 W	2-15	93%-3%		2-11	97%-3%		T.B.D.	T.B.D.	T.B.D.	2-7	96%-6%	
Hager	EVN 004	[RL]		2-20	93%-3%		2-19	97%-3%		T.B.D.	T.B.D.	T.B.D.	2-12	97%-6%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	2-26	92%-3%		2-19	95%-3%		3-19	85%-3%		2-12	93%-11%	
Jung	1271LEDDE	[LED]	3 – 100 W - Push (3wire)	2-25	90%-3%		2-19	95%-18%		3-18	90%-21%		1-12	95%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	2-6	86%-3%		2-4	85%-3%		T.B.D.	T.B.D.	T.B.D.	2-3	90%-19%	
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.	2-7	75%-3%	
Legrand	774161	[RL]	40 – 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-9	97%-7%	
Legrand	78401	[RLC]	40 – 500W	2-20	89%-3%		2-15	91%-3%		T.B.D.	T.B.D.	T.B.D.	2-9	93%-5%	
Legrand	67081	[RL]	40 – 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-7	98%-7%	
Legrand	67082	[RL]	40 – 600 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-2	97%-7%	
Legrand	67083	[RLC]	3 – 400 W		89%-3%			89%-3%		T.B.D.	T.B.D.	T.B.D.	2-9	92%-3%	
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)		N.A.	N.A.		N.A.	N.A.	3-15	90%-3%		1-9	94%-5%	
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)	2-15	98%-3%			N.A.		3-11	95%-3%		1-7	98%-2%	
Legrand	L4402N	[R]	60-500 W	4-20	82%-3%			85%-3%		T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	2-20	90%-3%		2-15	93%-3%		3-15	88%-3%		1-9	93%-12%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3-11	90%-3%		1-7	92%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA		N.A.	N.A.		N.A.	N.A.	3-15	90%-3%		1-10	94%-4%	
MK - Electric	K1535	[R]	65 – 450 W - Turn	2-23	80%-3%		2-17	83%-3%		3-16	83%-3%		1-11	80%-8%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	2-25	86%-3%		2-19	90%-3%		3-18	83%-3%		1-12	92%-7%	
MK - Electric	K4501 WHILV	[RLC]		2-11	86%-3%		2-18	85%-3%		T.B.D.	T.B.D.	T.B.D.	2-5	99%-28%	
MK - Electric	K4500 WHILV	[RLC]		2-16	86%-3%		2-12	85%-3%		T.B.D.	T.B.D.	T.B.D.	2-9	99%-28%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	89%-3%		2-5	97%-3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	2-10	82%-3%		2-4	88%-6%		T.B.D.	T.B.D.	T.B.D.	2-3	92%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	2-20	90%-3%		2-19	92%-3%		3-18	85%-3%		1-20	95%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3-11	90%-3%		1-7	92%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3-11	90%-3%		1-7	92%-3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	2-20	90%-3%		2-15	93%-3%		3-15	88%-3%		1-9	93%-12%	
Schneider	SBD315RC (SBD 315)	[RC]	315	2-16	90%-3%		2-12	89%-3%		3-11	90%-3%		1-7	92%-3%	
VADSBO	ED 350	[RC]	50 – 350 W	2-18	86%-3%		2-13	88%-3%		T.B.D.	T.B.D.	T.B.D.	2-8	90%-13%	
VADSBO	DRS 315	[RC]	50 – 315 W	6-16	93%-3%		2-12	94%-3%		T.B.D.	T.B.D.	T.B.D.	2-7	94%-9%	
VADSBO	DU 250	[RC]	20 – 250 W	2-13	86%-3%		2-9	85%-3%		T.B.D.	T.B.D.	T.B.D.	2-6	82%-3%	
Varilight	HQ3W	[R]		2-20	92%-3%		2-15	97%-3%		3-15	88%-3%		2-9	97%-6%	
Vimar	20148	[RL]	500 W	3-25	93%-3%		2-19	94%-3%		3-18	89%-3%		1-12	95%-3%	
Vimar	14153	[R]		2-20	93%-3%		2-19	97%-3%		T.B.D.	T.B.D.	T.B.D.	2-12	99%-3%	
Vimar	20160	[RC]		2-15	89%-3%		2-11	94%-3%		3-15	88%-3%	T.B.D.	2-12	93%-3%	
Vimar	20162	[RL]	40 – 300 W	2-15	90%-3%		2-11	92%-3%		3-11	88%-3%		1-7	92%-4%	
Dynalite	DDLE801		(per channel)	2-20	93%-3%		2-19	88%-3%		T.B.D.	T.B.D.	T.B.D.	1-12	96%-3%	
Dynalite	DDMC-GRMSPLUS		(per channel)	2-20	93%-3%		2-17	91%-3%		T.B.D.	T.B.D.	T.B.D.	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 recommends 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%.
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# 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
	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

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Brand	Type	Type	Load	LED spot											
				MASTER LEDSPOT MV 9.5W-90W PAR30S			MASTER LEDSPOT MV 5.5W-60W PAR30S			MASTER LEDspot MV 13-100 W PAR38			CorePro LED spot MV 5-60 W R50		
				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%		1-5	88%-3%		1-5	97%-3%		2-10	90%-20%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	1-5	93%-9%		N.A.	N.A.		5	96%-3%		2-10	94%-8%	
Bticino	L4407	[]	60 – 250 W		N.A.	N.A.		N.A.		1-3	59%-3%			N.A.	N.A.
Busch Jaeger  ABB	2200 U - 503	[R]	60 – 400 W - Turn	1-5	93%-14%		2-5	90%-3%			N.A.	N.A.	2-10	94%-16%	< 2
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	1-5	93%-3%		1-5	92%-3%		5	99%-3%		2-10	92%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	1-5	94%-3%		2-5	94%-3%		5	98%-3%		2-10	92%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	1-5	93%-10%		1-5	91%-3%		1-5	99%-3%		2-10	96%-20%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	1-5	93%-3%		1-5	90%-3%			N.A.	N.A.	2-10	92%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-5	96%-9%		1-5	94%-3%		1-5	96%-3%		1-16	95%-20%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-5	92%-13%			N.A.	N.A.	1-5	98%-3%		2-10	88%-20%	
ELKO  Schneider	SBD315RC (315 GLE)	[RC]	315 W	1-5	93%-3%		2-5	84%-3%		1-5	99%-3%		2-10	88%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	1-5	99%-5%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module				1-5	99%-3%			N.A.	N.A.	1-16	97%-12%	< 17
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)	1-5	92%-13%			N.A.	N.A.	1-5	98%-3%		2-10	88%-20%	
GIRA	1176-00/01	[RLC]	50 – 420 W	1-5	92%-15%		1-5	84%-8%			N.A.	N.A.	1-16	94%-30%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	1-5	90%-24%		1-5	88%-3%			N.A.	N.A.	2-10	92%-8%	
Hager	EVN 011	[RC]		1-5	92%-6%			N.A.	N.A.		N.A.	N.A.	1-12	97%-14%	< 13
Hager	EVN 012	[RC]	300 W	1-5	92%-10%		1-5	98%-3%			N.A.	N.A.	1-12	96%-15%	< 13
Hager	EVN 004	[RL]		1-5	93%-12%		1-5	99%-3%			N.A.	N.A.	1-16	97%-15%	< 3
Jung	225 TDE	[RC]	20 – 525 W - Turn	1-5	92%-11%		1-5	91%-3%		1-5	97%-3%		2-10	92%-24%	
Jung	1271LEDD	[LED]	3 – 100 W - Push (3wire)	1-5	93%-3%		1-5	88%-3%			N.A.	N.A.	2-10	92%-36%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	1-3	87%-18%			N.A.	N.A.		N.A.	N.A.	1-5	79%-31%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	1-5	84%-3%			N.A.	N.A.		N.A.	N.A.	1-12	87%-14%	
Legrand	774161	[RL]	40 – 400 W - Turn			N.A.		N.A.	N.A.	5	97%-3%		3-10	92%-8%	< 4
Legrand	78401	[RLC]	40 – 500W	1-5	91%-7%		1-5	94%-3%			N.A.	N.A.	1-16	95%-14%	
Legrand	67081	[RL]	40 – 400 W - Turn	1-5	98%-7%			N.A.	N.A.		N.A.	N.A.	3-10	96%-16%	
Legrand	67082	[RL]	40 – 600 W - Turn	1-5	99%-6%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400 W	1-5	88%-3%			N.A.	N.A.		N.A.	N.A.	2-16	90%-12%	
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)	1-5	96%-6%			N.A.	N.A.		N.A.	N.A.	2-10	88%-3%	< 5
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)	1-5	96%-3%		1-5	91%-3%		1-5	96%-3%		2-10	96%-3%	
Legrand	L4402N	[R]	60-500 W			N.A.	3-5	88%-8%			N.A.	N.A.	2-16	95%-20%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	1-5	92%-13%			N.A.	N.A.	1-5	98%-3%		2-10	88%-20%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-5	93%-3%		2-5	84%-3%		1-5	99%-3%		2-10	88%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-5	99%-5%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
MK - Electric	K1535	[R]	65 – 450 W - Turn	1-5	85%-7%			N.A.	N.A.		N.A.	N.A.	2-10	80%-14%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	1-5	98%-29%		1-5	86%-3%			N.A.	N.A.	2-10	86%-14%	
MK - Electric	K4501 WHILV	[RLC]		1-5	99%-25%		1-5	85%-3%			N.A.	N.A.	1-9	90%-17%	
MK - Electric	K4500 WHILV	[RLC]		1-5	99%-25%		1-5	86%-3%			N.A.	N.A.	1-16	89%-18%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-2	93%-3%		1-4	96%-3%			N.A.	N.A.	1-4	86%-6%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	1-3	90%-3%		1-4	86%-4%			N.A.	N.A.	1-5	89%-7%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)										2-10	92%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-5	93%-3%		2-5	84%-3%		1-5	99%-3%		2-10	88%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	1-5	93%-3%		2-5	84%-3%		1-5	99%-3%		2-10	88%-3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	1-5	92%-13%			N.A.	N.A.	1-5	98%-3%		2-10	88%-20%	
Schneider	SBD315RC (SBD 315)	[RC]	315	1-5	93%-3%		2-5	84%-3%		1-5	99%-3%		2-10	88%-3%	
VADSBO	ED 350	[RC]	50 – 350 W	1-5	86%-12%		1-5	87%-7%		1-5	90%-3%		1-14	88%-27%	
VADSBO	DRS 315	[RC]	50 – 315 W	1-5	89%-8%			N.A.	N.A.		N.A.	N.A.	2-13	95%-19%	< 14
VADSBO	DU 250	[RC]	20 – 250 W	1-5	786%-3%		1-5	82%-3%			N.A.	N.A.	1-10	85%-9%	< 11
Varilight	HQ3W	[R]		1-5	93%-3%		3-5	91%-3%			N.A.	N.A.	2-10	92%-6%	
Vimar	20148	[RL]	500 W	1-5	97%-5%		3-5	96%-4%			N.A.	N.A.	3-10	92%-8%	< 11
Vimar	14153	[R]		2-5	97%-5%		1-5	97%-3%			N.A.	N.A.	1-16	99%-6%	
Vimar	20160	[RC]		1-5	90%-3%		1-5	90%-3%			N.A.	N.A.	2-16	94%-11%	< 17
Vimar	20162	[RL]	40 – 300 W	1-5	94%-5%		1-5	89%-3%		1-5	98%-3%		2-10	88%-8%	< 11
Dynalite	DDLE801		(per channel)	1-5	95%-3%			N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
Dynalite	DDMC-GRMSPLUS		(per channel)	1-5	93%-3%		1-5	90%-3%		1-5	99%-3%		T.B.D.	T.B.D.	T.B.D.

- 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 recommends 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 light level as lab condition.
  - #8) Dimmer manufacturers 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.

# 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
	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

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Brand	Type	Type	Load	LED bulb											
				MASTER LEDbulb clear 6-40 W DimTone			MASTER LEDbulb clear 8.5-60 W DimTone			MASTER LEDbulb 6-40 W frosted DimTone			MASTER LEDbulb 8.5-60 W frosted DimTone		
				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%-3%		1-3	98%-4%		1-3	87%-3%		1-3	98%-4%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	1-3	90%-3%		1-3	95%-3%		1-3	90%-3%		1-3	95%-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	1-3	93%-3%		1-3	94%-5%		1-3	93%-3%		1-3	94%-5%	
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	1-3	90%-3%		1-3	95%-3%		1-3	90%-3%		1-3	95%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	1-3	92%-3%		1-3	95%-3%		1-3	92%-3%		1-3	95%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	1-3	94%-8%		1-3	96%-5%		1-3	94%-8%		1-3	96%-5%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	1-3	86%-3%		1-3	89%-3%		1-3	86%-3%		1-3	89%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-3	91%-4%		1-3	88%-5%		1-3	91%-4%		1-3	88%-5%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-3	88%-3%		1-3	90%-4%		1-3	88%-3%		1-3	90%-4%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315 W	1-3	93%-3%		1-3	92%-3%		1-3	93%-3%		1-3	92%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	1-3	89%-3%		1-3	95%-3%		1-3	89%-3%		1-3	95%-3%	
Eltako	EVD6INPN-UC		400 W 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.	T.B.D.	T.B.D.	T.B.D.
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)	1-3	88%-3%		1-3	90%-4%		1-3	88%-3%		1-3	90%-4%	
GIRA	1176-00/01	[RLC]	50 – 420 W	1-3	93%-5%		1-3	88%-5%		1-3	93%-5%		1-3	88%-5%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	1-3	86%-3%		1-3	91%-3%		1-3	86%-3%		1-3	91%-3%	
Hager	EVN 011	[RC]		1-3	98%-3%		1-3	93%-3%		1-3	98%-3%		1-3	93%-3%	
Hager	EVN 012	[RC]	300 W	1-3	98%-3%		1-3	93%-3%		1-3	98%-3%		1-3	93%-3%	
Hager	EVN 004	[RL]		1-3	98%-3%		1-3	93%-3%		1-3	98%-3%		1-3	93%-3%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	1-3	93%-3%		1-3	96%-5%		1-3	93%-3%		1-3	96%-5%	
Jung	1271LEDD	[LED]	3 – 100 W - Push (3wire)	1-3	87%-7%		1-3	91%-7%		1-3	87%-7%		1-3	91%-7%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	1-3	82%-4%		1-3	83%-5%		1-3	82%-4%		1-3	83%-5%	
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.	T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 – 400 W - Turn			N.A.			N.A.			N.A.			N.A.
Legrand	78401	[RLC]	40 – 500W	1-3	96%-3%		1-3	93%-3%		1-3	96%-3%		1-3	93%-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.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400 W		N.A.	N.A.	1-3	90%-3%			N.A.	N.A.	1-3	90%-3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	95%-3%		1-3	95%-3%		1-3	95%-3%		1-3	95%-3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	88%-17%		1-3	95%-3%		1-3	88%-17%		1-3	95%-3%	
Legrand	L4402N	[R]	60-500 W		N.A.	N.A.	2-3	83%-5%			N.A.	N.A.	2-3	83%-5%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	1-3	88%-3%		1-3	90%-4%		1-3	88%-3%		1-3	90%-4%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-3	93%-3%		1-3	92%-3%		1-3	93%-3%		1-3	92%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-3	89%-3%		1-3	95%-3%		1-3	89%-3%		1-3	95%-3%	
MK - Electric	K1535	[R]	65 – 450 W - Turn		N.A.	N.A.	1-3	80%-3%			N.A.	N.A.	1-3	80%-3%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	1-3	85%-3%		1-3	90%-3%		1-3	85%-3%		1-3	90%-3%	
MK - Electric	K4501 WHILV	[RLC]		1-3	88%-3%		1-3	83%-3%		1-3	88%-3%		1-3	83%-3%	
MK - Electric	K4500 WHILV	[RLC]		1-3	88%-3%		1-3	85%-3%		1-3	88%-3%		1-3	85%-3%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3	98%-4%		1-3	95%-5%		1-3	98%-4%		1-3	95%-5%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	1-3	88%-4%		1-3	83%-5%		1-3	88%-4%		1-3	83%-5%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	1-3	86%-3%		1-3	89%-3%		1-3	86%-3%		1-3	89%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-3	93%-3%		1-3	92%-3%		1-3	93%-3%		1-3	92%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	1-3	93%-3%		1-3	92%-3%		1-3	93%-3%		1-3	92%-3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	1-3	88%-3%		1-3	90%-4%		1-3	88%-3%		1-3	90%-4%	
Schneider	SBD315RC (SBD 315)	[RC]	315	1-3	93%-3%		1-3	90%-4%		1-3	93%-3%		1-3	90%-4%	
VADSBO	ED 350	[RC]	50 – 350 W	1-3	91%-5%		1-3	85%-5%		1-3	91%-5%		1-3	85%-5%	
VADSBO	DRS 315	[RC]	50 – 315 W		N.A.	N.A.	1-3	93%-3%	<2		N.A.	N.A.	1-3	93%-3%	<2
VADSBO	DU 250	[RC]	20 – 250 W	1-3	88%-3%	<4	1-3	83%-3%	<4	1-3	88%-3%	<4	1-3	83%-3%	<4
Varilight	HQ3W	[R]		1-3	92%-3%		1-3	99%-3%		1-3	92%-3%		1-3	99%-3%	
Vimar	20148	[RL]	500 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Vimar	14153	[R]		1-3	98%-3%		1-3	98%-3%		1-3	98%-3%		1-3	98%-3%	
Vimar	20160	[RC]			N.A.	N.A.	1-3	93%-3%	<4		N.A.	N.A.	1-3	93%-3%	<4
Vimar	20162	[RL]	40 – 300 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Dynalite	DDLE801		(per channel)	1-3	95%-3%		1-3	93%-3%		1-3	95%-3%		1-3	93%-3%	
Dynalite	DDMC-GRMSPLUS		(per channel)	1-3	98%-3%		1-3	90%-3%		1-3	98%-3%		1-3	90%-3%	

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# Professional LED lamps MV range

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



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				LED bulb											
				MASTER LEDbulb 11-75 W frosted DimTone			MASTER LEDbulb 15-100 W frosted DimTone			CorePro LED bulb 6-40 W			CorePro LED bulb 8.5-60 W		
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%–10%		1-3	89%–9%		1-3	94%–3%		1-3	95%–3%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	1-3	93%–10%		1-3	91%–9%		1-3	96%–3%		1-3	92%–11%	
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	93%–17%		1-3	91%–22%		1-3	98%–9%		1-3	94%–15%	
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	1-3	93%–3%		1-3	93%–3%			N.A.	N.A.	1-3	95%–3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	1-3	93%–3%		1-3	93%–3%		1-3	99%–3%		1-3	92%–3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	1-3	93%–10%		1-3	91%–10%			98%–5%			92%–4%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	1-3	87%–3%		1-3	87%–3%		1-3	94%–3%		1-3	94%–3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-3	98%–10%		1-3	98%–11%		1-3	91%–13%		1-3	92%–19%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-3	90%–10%		1-3	89%–10%		3	91%–3%		1-3	91%–7%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315 W	1-3	87%–3%		1-3	84%–3%		1-3	93%–3%		1-3	98%–3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	1-3	93%–7%		1-3	91%–4%		1-3	91%–3%		1-3	93%–3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	1-3	97%–5%		1-3	97%–5%		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 – 200 W(RC) 4 – 400 W(RL)	1-3	90%–10%		1-3	89%–10%		3	91%–3%		1-3	91%–7%	
GIRA	1176-00/01	[RLC]	50 – 420 W	1-3	93%–24%		1-3	93%–24%		1-3	93%–15%		1-3	93%–13%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	1-3	90%–3%		1-3	87%–4%		1-3	94%–3%		1-3	99%–3%	
Hager	EVN 011	[RC]		1-3	97%–6%		1-3	97%–6%		1-3	97%–3%		1-3	97%–3%	
Hager	EVN 012	[RC]	300 W	1-3	97%–6%		1-3	97%–6%		1-3	97%–3%		1-3	97%–3%	
Hager	EVN 004	[RL]		1-3	97%–6%		1-3	97%–6%		1-3	97%–3%		1-3	97%–3%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	1-3	90%–10%		1-3	89%–9%		1-3	92%–8%		1-3	93%–7%	
Jung	1271LEDDE	[LED]	3 – 100 W - Push (3wire)	1-3	87%–20%		1-3	89%–29%		1-3	95%–3%		1-3	93%–3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W		N.A.	N.A.		N.A.	N.A.	1-3	84%–12%		1-3	87%–20%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer		N.A.	N.A.		N.A.	N.A.	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	94%–7%		1-3	93%–3%		1-3	93%–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.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400 W		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)	1-3	93%–7%				N.A.		98%–3%			92%–3%	
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)	1-3	93%–3%		1-3	91%–3%			96%–3%			97%–3%	
Legrand	L4402N	[R]	60–500 W	1-3	86%–17%		1-3	86%–18%			N.A.	N.A.	2-3	87%–11%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	1-3	90%–10%		1-3	89%–10%		3	91%–3%		1-3	91%–7%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-3	87%–3%		1-3	84%–3%		1-3	93%–3%		1-3	98%–3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-3	93%–7%		1-3	91%–4%		1-3	91%–3%		1-3	93%–3%	
MK - Electric	K1535	[R]	65 – 450 W - Turn	1-3	80%–7%		1-3	82%–9%		1-3	82%–3%		1-3	84%–6%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	1-3	83%–7%			N.A.	N.A.	1-3	89%–3%		1-3	92%–3%	
MK - Electric	K4501 WHILV	[RLC]		1-3	85%–8%		1-3	85%–8%		1-3	87%–3%		1-3	88%–3%	
MK - Electric	K4500 WHILV	[RLC]		1-3	90%–9%		1-3	90%–9%		1-3	87%–3%		1-3	87%–3%	
NIKO	310-0280X	[LED]	2 – 100 VA	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1-3	96%–4%		1-3	96%–5%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	1-3	87%–3%		1-3	87%–3%		1-3	85%–12%		1-3	89%–27%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	1-3	87%–3%		1-3	87%–3%		1-3	94%–3%		1-3	94%–3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-3	87%–3%		1-3	84%–3%		1-3	93%–3%		1-3	98%–3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	1-3	87%–3%		1-3	84%–3%		1-3	93%–3%		1-3	98%–3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	1-3	90%–10%		1-3	89%–10%		3	91%–3%		1-3	91%–7%	
Schneider	SBD315RC (SBD 315)	[RC]	315	1-3	87%–3%		1-3	84%–3%		1-3	93%–3%		1-3	98%–3%	
VADSBO	ED 350	[RC]	50 – 350 W	1-3	84%–23%		1-3	84%–23%		1-3	89%–16%		1-3	85%–11%	
VADSBO	DRS 315	[RC]	50 – 315 W	1-3	96%–9%		1-3	96%–9%		1-3	92%–3%		1-3	92%–3%	
VADSBO	DU 250	[RC]	20 – 250 W	1-3	87%–3%		1-3	87%–3%		1-3	87%–3%		1-3	83%–3%	
Varilight	HQ3W	[R]		1-3	90%–3%		1-3	91%–4%		1-3	95%–3%		1-3	95%–3%	
Vimar	20148	[RL]	500 W	1-3	93%–7%		1-3	91%–7%			N.A.	N.A.	1-3	94%–3%	
Vimar	14153	[R]		1-3	98%–3%		1-3	98%–3%		1-3	99%–3%		1-3	99%–3%	
Vimar	20160	[RC]		1-3	92%–4%		1-3	92%–4%			N.A.	N.A.	1-3	92%–3%	
Vimar	20162	[RL]	40 – 300 W	1-3	90%–7%		1-3	87%–4%		1-3	95%–5%		1-3	88%–3%	
Dynalite	DDLE801		(per channel)	1-3	90%–3%		1-3	89%–4%		1-3	92%–3%		1-3	95%–3%	
Dynalite	DDMC-GRMSPLUS		(per channel)	1-3	90%–3%		1-3	89%–3%		1-3	93%–3%		1-3	93%–3%	

- Note :
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# 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
	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

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Brand	Type	Type	Load	LED bulb											
				CorePro LED bulb 11.5-75 W			CorePro LED bulb 16-100 W			Classic filament bulb A60 4.5 - 40 W clear DimTone			Classic filament bulb A60 7.5 W - 60 W clear DimTone		
				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	90%-10%	T.B.D.	1-3	91%-9%	N.A.	N.A.	1-3	87%-3%	1-3	98%-4%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	1-3	94%-12%		N.A.	N.A.	N.A.	N.A.	1-3	90%-3%	1-3	95%-3%	
Bticino	L4407	[]	60 – 250 W		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	92%-24%		1-3	94%-25%			1-3	93%-3%	1-3	94%-5%	
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	1-3	94%-3%		1-3	94%-3%			1-3	90%-3%	1-3	95%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	1-3	96%-3%		1-3	94%-3%			1-3	92%-3%	1-3	95%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	1-3	92%-10%		1-3	93%-9%			1-3	94%-8%	1-3	96%-5%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	1-3	82%-3%		1-3	90%-3%			1-3	86%-3%	1-3	89%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-3	88%-23%		1-3	91%-25%			1-3	91%-4%	1-3	88%-5%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	1-3	88%-13%		1-3	90%-13%			1-3	88%-3%	1-3	90%-4%	
ELKO  Schneider	SBD315RC (315 GLE)	[RC]	315 W	1-3	88%-3%		1-3	90%-3%			1-3	93%-3%	1-3	92%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	1-3	92%-3%		1-3	94%-3%			1-3	89%-3%	1-3	95%-3%	
Eltako	EVD61NPN-UC		400 W 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.	T.B.D.	T.B.D.	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)	1-3	88%-13%		1-3	90%-13%			1-3	88%-3%	1-3	90%-4%	
GIRA	1176-00/01	[RLC]	50 – 420 W	1-3	92%-20%		1-3	93%-19%			1-3	93%-5%	1-3	88%-5%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	1-3	90%-3%		1-3	91%-3%			1-3	86%-3%	1-3	91%-3%	
Hager	EVN 011	[RC]		1-3	97%-3%		1-3	96%-4%			1-3	98%-3%	1-3	93%-3%	
Hager	EVN 012	[RC]	300 W	1-3	95%-3%		1-3	95%-4%			1-3	98%-3%	1-3	93%-3%	
Hager	EVN 004	[RL]		1-3	97%-5%		1-3	98%-4%			1-3	98%-3%	1-3	93%-3%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	1-3	90%-10%		1-3	91%-11%			1-3	93%-3%	1-3	96%-5%	
Jung	1271LEDDE	[LED]	3 – 100 W - Push (3wire)	1-3	90%-28%		1-3	91%-26%			1-3	87%-7%	1-3	91%-7%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	1-3	83%-25%		1-3	85%-23%			1-3	82%-4%	1-3	83%-5%	
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.	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.	
Legrand	78401	[RLC]	40 – 500W	1-3	92%-5%		1-3	94%-5%			1-3	96%-3%	1-3	93%-3%	
Legrand	67081	[RL]	40 – 400 W - Turn		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.	
Legrand	67083	[RLC]	3 – 400 W		N.A.	N.A.		N.A.	N.A.	N.A.	1-3	90%-3%			
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	92%-5%		1-3	92%-5%			1-3	95%-3%	1-3	95%-3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	94%-3%		1-3	94%-3%			1-3	88%-17%	1-3	95%-3%	
Legrand	L4402N	[R]	60-500 W	1-3	85%-17%		1-3	85%-16%			N.A.	N.A.	2-3	83%-5%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	1-3	88%-13%		1-3	90%-13%			1-3	88%-3%	1-3	90%-4%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-3	88%-3%		1-3	90%-3%			1-3	93%-3%	1-3	92%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	1-3	92%-3%		1-3	94%-3%			1-3	89%-3%	1-3	95%-3%	
MK - Electric	K1535	[R]	65 – 450 W - Turn	1-3	82%-10%		1-3	83%-9%			N.A.	N.A.	1-3	80%-3%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	1-3	78%-8%		1-3	88%-8%			1-3	85%-3%	1-3	90%-3%	
MK - Electric	K4501 WHILV	[RLC]		1-3	78%-8%		1-3	88%-8%			1-3	88%-3%	1-3	83%-3%	
MK - Electric	K4500 WHILV	[RLC]		1-3	78%-8%		1-3	88%-8%			1-3	88%-3%	1-3	85%-3%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3	95%-13%		1-3	95%-13%			1-3	98%-4%	1-3	95%-5%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	1-3	88%-28%		1-3	88%-28%			1-3	88%-4%	1-3	83%-5%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	1-3	82%-3%		1-3	90%-3%			1-3	86%-3%	1-3	89%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-3	88%-3%		1-3	90%-3%			1-3	93%-3%	1-3	92%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	1-3	88%-3%		1-3	90%-3%			1-3	93%-3%	1-3	92%-3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	1-3	88%-13%		1-3	90%-13%			1-3	88%-3%	1-3	90%-4%	
Schneider	SBD315RC (SBD 315)	[RC]	315	1-3	88%-3%		1-3	90%-3%			1-3	93%-3%	1-3	90%-4%	
VADSBO	ED 350	[RC]	50 – 350 W	1-3	85%-17%		1-3	83%-15%			1-3	91%-5%	1-3	85%-5%	
VADSBO	DRS 315	[RC]	50 – 315 W	1-3	90%-7%		1-3	91%-6%			N.A.	N.A.	1-3	93%-3%	
VADSBO	DU 250	[RC]	20 – 250 W	1-3	80%-3%		1-3	80%-3%			1-3	88%-3%	<4	83%-3%	
Varilight	HQ3W	[R]		1-3	94%-3%		1-3	93%-3%			1-3	92%-3%	1-3	99%-3%	
Vimar	20148	[RL]	500 W	1-3	94%-7%		1-3	94%-6%			N.A.	N.A.		N.A.	
Vimar	14153	[R]		1-3	97%-3%		1-3	98%-3%			1-3	98%-3%	1-3	98%-3%	
Vimar	20160	[RC]		1-3	90%-3%		1-3	91%-3%			N.A.	N.A.	1-3	93%-3%	
Vimar	20162	[RL]	40 – 300 W	1-3	88%-3%		1-3	91%-3%			N.A.	N.A.		N.A.	
Dynalite	DDLE801		(per channel)	1-3	92%-3%		1-3	95%-3%			1-3	95%-3%	1-3	93%-3%	
Dynalite	DDMC-GRMSPLUS		(per channel)	1-3	92%-3%		1-3	96%-3%			1-3	98%-3%	1-3	90%-3%	

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Brand	Type	Type	Load	LED bulb											
				Classic filament bulb A60 4.5-40 W			Classic filament bulb A60 7.5 W - 60 W 7.5 W -48 W Gold			Classic filament bulb ST64 clear dim 7-60 W / ST64 gold dim 7-50 W / ST64 gold dim 7-55 W			Classic filament bulb G93 clear 6-60 W / G120 gold dim 7-50 W		
				NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	
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	93%-5%		1-3	89%-3%		1-3	93%-3%		1-3	93%-3%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	1-3	92%-5%		1	92%-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.		N.A.	
Busch Jaeger  ABB	2200 U - 503	[R]	60 – 400 W - Turn	1-3	90%-11%		1-3	93%-3%		1-3	97%-3%		1-3	97%-3%	
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn	1-3	91%-3%		1-3	92%-3%		1-3	94%-3%		1-3	94%-3%	
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn	1-3	91%-3%		1-3	93%-3%		1-3	96%-3%		1-3	96%-3%	
Busch Jaeger  ABB	6513 U - 102	[R]	40 – 420 W - Turn	1-3	95%-3%		1-3	93%-3%		1-3	95%-3%		1-3	95%-3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	1-3	91%-3%		1-3	88%-3%		1-3	91%-3%		1-3	91%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-3	96%-3%		1-3	97%-3%		1-3	95%-3%		1-3	95%-3%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-3	94%-3%		1-3	90%-4%		1-3	94%-6%		1-3	94%-6%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315 W	2-3	91%-3%		1-3	90%-3%		1-3	83%-3%		1-3	83%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W	2-3	96%-3%		2-3	93%-3%		3	99%-3%		3	99%-3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	1-3	99%-3%		1-3	99%-3%		1-3	99%-3%		1-3	99%-3%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)	2-3	94%-3%		1-3	90%-4%		1-3	94%-6%		1-3	94%-6%	
GIRA	1176-00/01	[RLC]	50 – 420 W	1-3	95%-13%		1-3	96%-13%		1-3	95%-11%		1-3	95%-11%	
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)	1-3	90%-3%		1-3	89%-3%		1-3	93%-3%		1-3	93%-3%	
Hager	EVN 011	[RC]		1-3	99%-3%		1-3	99%-3%		1-3	96%-3%		1-3	96%-3%	
Hager	EVN 012	[RC]	300 W	1-3	99%-4%		1-3	98%-4%		1-3	98%-3%		1-3	98%-3%	
Hager	EVN 004	[RL]		1-3	98%-5%		1-3	99%-4%		1-3	98%-4%		1-3	98%-4%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	1-3	89%-4%		1-3	90%-4%		1-3	93%-6%		1-3	93%-6%	
Jung	1271LEDDE	[LED]	3 – 100 W - Push (3wire)	1-3	89%-3%		1-3	90%-3%		1-3	95%-10%		1-3	95%-10%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W	1-3	88%-3%		1-3	86%-11%		1-3	86%-3%		1-3	86%-3%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	1-3	91%-3%		1-3	93%-3%		1-3	80%-3%		1-3	80%-3%	
Legrand	774161	[RL]	40 – 400 W - Turn	3	91%-3%		2-3	93%-3%			N.A.	N.A.		N.A.	
Legrand	78401	[RLC]	40 – 500W	1-3	96%-3%		1-3	96%-3%		1-3	95%-3%		1-3	95%-3%	
Legrand	67081	[RL]	40 – 400 W - Turn	3	92%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	
Legrand	67082	[RL]	40 – 600 W - Turn	3	93%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	
Legrand	67083	[RLC]	3 – 400 W	1-3	88%-3%		1-3	87%-3%		1-2	87%-5%		1-2	87%-5%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	94%-3%		1-3	93%-3%		1-3	95%-3%		1-3	95%-3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	96%-3%		1-3	95%-3%		1-3	98%-3%		1-3	98%-3%	
Legrand	L4402N	[R]	60-500 W	3	87%-4%		1-3	87%-5%		2-3	87%-5%		2-3	87%-5%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)	2-3	94%-3%		1-3	90%-4%		1-3	94%-6%		1-3	94%-6%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-3	91%-3%		1-3	90%-3%		1-3	83%-3%		1-3	83%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-3	96%-3%		2-3	93%-3%		3	99%-3%		3	99%-3%	
MK - Electric	K1535	[R]	65 – 450 W - Turn	1-3	84%-3%		1-3	81%-3%		1-3	84%-3%		1-3	84%-3%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	2-3	84%-3%		1-3	86%-3%		1-3	87%-3%		1-3	87%-3%	
MK - Electric	K4501 WHILV	[RLC]		2-3	88%-3%		1-3	88%-3%		1-3	91%-9%		1-3	91%-9%	
MK - Electric	K4500 WHILV	[RLC]		2-3	89%-3%		1-3	88%-3%		1-3	91%-9%		1-3	91%-9%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3	98%-3%		1-3	97%-3%		1-3	97%-3%		1-3	97%-3%	
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W	1-3	88%-3%		1-3	87%-3%		1-3	87%-3%		1-3	87%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	1-3	91%-3%		1-3	88%-3%		1-3	91%-3%		1-3	91%-3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-3	91%-3%		1-3	90%-3%		1-3	83%-3%		1-3	83%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W	2-3	91%-3%		1-3	90%-3%		1-3	83%-3%		1-3	83%-3%	
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)	2-3	94%-3%		1-3	90%-4%		1-3	94%-6%		1-3	94%-6%	
Schneider	SBD315RC (SBD 315)	[RC]	315	2-3	91%-3%		1-3	90%-3%		1-3	83%-3%		1-3	83%-3%	
VADSBO	ED 350	[RC]	50 – 350 W	1-3	93%-13%		1-3	93%-13%		1-3	91%-9%		1-3	91%-9%	
VADSBO	DRS 315	[RC]	50 – 315 W		N.A.	N.A.	1-3	95%-3%			N.A.	N.A.		N.A.	
VADSBO	DU 250	[RC]	20 – 250 W	1-3	91%-3%	< 3	1-3	88%-3%		1-3	87%-3%		1-3	87%-3%	
Varilight	HQ3W	[R]		2-3	93%-3%		1-3	91%-3%		1-3	93%-3%		1-3	93%-3%	
Vimar	20148	[RL]	500 W	1-3	90%-3%		1-3	92%-3%		1-3	95%-3%	< 2	1-3	95%-3%	
Vimar	14153	[R]		1-3	99%-3%		1-3	98%-3%		1-3	98%-3%		1-3	98%-3%	
Vimar	20160	[RC]		1-3	93%-3%	< 2	1-3	94%-3%		1-3	92%-3%		1-3	92%-3%	
Vimar	20162	[RL]	40 – 300 W	1-3	92%-3%		1-3	91%-3%		1-3	97%-3%	< 2	1-3	97%-3%	
Dynalite	DDLE801		(per channel)	1-3	88%-3%		1-3	86%-3%		1-3	89%-3%		1-3	89%-3%	
Dynalite	DDMC-GRMSPLUS		(per channel)	1-3	93%-3%		1-3	91%-3%		1-3	91%-3%		1-3	91%-3%	

- Note :
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  - #2) Occupancy sensors can act like dimmers, therefore Philips recommends 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 light level as lab condition.
  - #8) Dimmer manufacturers 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.





# 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
	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*

Brand	Type	Type	Load
Berker  INSTA	286710	[RC]	20 – 360 W - Turn
Berker  INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger  ABB	2200 U - 503	[R]	60 – 400 W - Turn
Busch Jaeger  ABB	2247 U	[R]	60 – 400 W - Turn
Busch Jaeger  ABB	2250 U	[RL]	20 – 500 W - Turn
Busch Jaeger  ABB	6513 U - 102	[R]	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)
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4-400W(RL)
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315 W
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	315 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100 W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400 W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60-500 W
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4-400W(RL)
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[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]	
MK - Electric	K4500 WHILV	[RLC]	
NIKO	310-0280X	[LED]	2 – 100 VA
PEHA	431HAN	[RL]	6 – 120 W [LED] 6 – 60 W
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(per channel)
Dynalite	DDMC-GRMSPLUS		(per channel)

LED capsule & specials					
CorePro LED capsule G9 2.5-25 W			CorePro R75 14-100 W		
			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
3-20	96%-27%		1	89%-8%	
3-20	86%-23%		1	94%-3%	
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
3-20	85%-33%		1	91%-23%	
3-20	83%-9%		1	93%-3%	
3-20	87%-6%		1	96%-3%	
3-20	98%-24%		1	93%-7%	
3-20	92%-3%		1	88%-3%	
3-20	97%-23%	< 7	T.B.D.	T.B.D.	T.B.D.
3-20	96%-30%		1	88%-10%	
3-20	95%-9%		1	89%-3%	
	N.A.	N.A.	1	93%-3%	
3-20	99%-15%		T.B.D.	T.B.D.	T.B.D.
3-20	96%-30%		1	88%-10%	
3-20	96%-39%	< 12	T.B.D.	T.B.D.	T.B.D.
3-18	91%-15%		1	89%-4%	
3-20	98%-18%	< 14	T.B.D.	T.B.D.	T.B.D.
3-20	99%-28%	< 14	T.B.D.	T.B.D.	T.B.D.
3-20	99%-28%	< 15	T.B.D.	T.B.D.	T.B.D.
3-20	96%-33%		1	90%-10%	
3-20	94%-3%		1	90%-3%	
3-10	86%-3%	< 11	T.B.D.	T.B.D.	T.B.D.
3-20	33%-3%	< 10	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.		N.A.	N.A.
3-20	97%-3%	< 13	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
3-20	97%-23%			N.A.	N.A.
3-20	99%-4%			N.A.	N.A.
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
3-20	96%-30%		1	88%-10%	
3-20	95%-9%		1	89%-3%	
T.B.D.	T.B.D.	T.B.D.	1	93%-3%	
3-20	72%-19%		1	82%-10%	
3-10	82%-17%		1	88%-6%	
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
3-9	98%-8%		T.B.D.	T.B.D.	T.B.D.
3-10	76%-4%		T.B.D.	T.B.D.	T.B.D.
3-20	92%-3%		1	88%-3%	
3-20	95%-9%		1	89%-3%	
3-20	95%-9%		1	89%-3%	
3-20	96%-30%		1	88%-10%	
3-20	95%-9%		1	89%-3%	
5-20	93%-34%		T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
3-20	92%-14%	< 21	T.B.D.	T.B.D.	T.B.D.
3-20	85%-14%		1	93%-3%	
	N.A.	N.A.	1	94%-4%	
3-20	98%-3%	< 10	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
3-20	96%-18%	< 21	1	90%-5%	
3-20	97%-3%		1	88%-3%	
3-20	97%-3%		1	91%-3%	

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