November 2015

Consumer LED Mains Voltage 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

				LEDbulbs																	
				E27 6-40 W Dimmable Warm Glow			E27 9-60 W Dimmable Warm Glow			E27 6 W-40 W Dimmable			E27 9.5 W-60 W Dimmable			E27 11.5 W-75 W Dimmable			E27 16 W-100 W Dimmable		
				NEW			NEW			NEW			NEW			NEW			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	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286610	R		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.
Berker |INSTA	286710	RC	20 ~ 360 W - Turn	1-3	87% ~ 3%		1-3	98% ~ 4%		1-3	94% ~ 2%		1-3	95% ~ 3%		1-3	90% ~ 10%	t.b.d.	1-3	91% ~ 9%	
Berker |INSTA	283010	R	60 ~ 400 W - Turn	1-3	90% ~ 1%		1-3	95% ~ 3%		1-3	96% ~ 2%		1-3	92% ~ 11%		1-3	94% ~ 12%			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	98% ~ 9%		1-3	94% ~ 15%		1-3	92% ~ 24%		1-3	94% ~ 25%	
Busch Jaeger |ABB	2247 U	R	60 ~ 400 W - Turn	1-3	90% ~ 1%		1-3	95% ~ 1%			N.A.	N.A.	1-3	95% ~ 2%		1-3	94% ~ 1%		1-3	94% ~ 1%	
Busch Jaeger |ABB	2250 U	RL	20 ~ 500 W - Turn	1-3	92% ~ 1%		1-3	95% ~ 1%		1-3	99% ~ 2%		1-3	92% ~ 1%		1-3	96% ~ 1%		1-3	94% ~ 1%	
Busch Jaeger |ABB	6513 U - 102	R	40 ~ 420 W - Turn	1-3	94% ~ 8%		1-3	96% ~ 5%			98% ~ 5%			92% ~ 4%		1-3	92% ~ 10%		1-3	93% ~ 9%	
Busch Jaeger |ABB	6523 U	LED	2 ~ 100 VA-LED - Turn	1-3	86% ~ 1%		1-3	89% ~ 1%		1-3	94% ~ 2%		1-3	94% ~ 1%		1-3	82% ~ 1%		1-3	90% ~ 1%	
ELKO| Schneider	SBD200LED (CCTEL10501)	LED/RC	4 ~ 200 W(RC) 4 ~ 40 W(RL)	1-3	88% ~ 3%		1-3	90% ~ 4%		3	91% ~ 3%		1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
ELKO| Schneider	SBD315RC (315 GLE)	RC	315 W	1-3	93% ~ 2%		1-3	92% ~ 2%		1-3	93% ~ 2%		1-3	98% ~ 1%		1-3	88% ~ 1%		1-3	90% ~ 1%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	RLC 3	15 W	1-3	89% ~ 2%		1-3	95% ~ 1%		1-3	91% ~ 2%		1-3	93% ~ 2%		1-3	92% ~ 2%		1-3	94% ~ 2%	
Feller| Schneider	SBD200LED (CCTCH10601)	LED/RC	4 ~ 200 W(RC) 4 ~ 40 W(RL)	1-3	88% ~ 3%		1-3	90% ~ 4%		3	91% ~ 3%		1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
GIRA	2390 00/ 100	LED	7 ~ 100 W - Push (3wire)	1-3	86% ~ 1%		1-3	91% ~ 1%		1-3	94% ~ 3%		1-3	99% ~ 2%		1-3	90% ~ 2%		1-3	91% ~ 1%	
Jung	225 TDE	RC	20 ~ 525 W - Turn	1-3	93% ~ 3%		1-3	96% ~ 5%		1-3	92% ~ 8%		1-3	93% ~ 7%		1-3	90% ~ 10%		1-3	91% ~ 11%	
Jung	1271LEDDE	LED	3 ~ 100 W - Push (3wire)	1-3	87% ~ 7%		1-3	91% ~ 7%		1-3	95% ~ 3%		1-3	93% ~ 1%		1-3	90% ~ 28%		1-3	91% ~ 26%	
Legrand	774161	RL	40 ~ 400 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	67081	RL	40 ~ 400 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.
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.
Legrand	67084	RLC	8 - 300 VA - Push LED (3wire)	1-3	95% ~ 1%		1-3	95% ~ 1%			98% ~ 2%			92% ~ 1%		1-3	92% ~ 5%		1-3	92% ~ 5%	
Legrand	67085 (078406)	RLC	8 - 300 VA - Push LED (3wire)	1-3	88% ~ 17%		1-3	95% ~ 1%			96% ~ 1%			97% ~ 1%		1-3	94% ~ 1%		1-3	94% ~ 1%	
Merten| Schneider	SBD200LED (MEG5134-0000)	LED/RC	4 ~ 200 W(RC) 4 ~ 40 W(RL)	1-3	88% ~ 3%		1-3	90% ~ 4%		3	91% ~ 3%		1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
Merten| Schneider	SBD315RC (MEG5136-0000)	RC	315 W	1-3	93% ~ 2%		1-3	92% ~ 2%		1-3	93% ~ 2%		1-3	98% ~ 1%		1-3	88% ~ 1%		1-3	90% ~ 1%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	RLC	20 ~ 420 VA	1-3	89% ~ 2%		1-3	95% ~ 1%		1-3	91% ~ 2%		1-3	93% ~ 2%		1-3	92% ~ 2%		1-3	94% ~ 2%	
MK - Electric	K1535	R	65 ~ 450 W - Turn		N.A.	N.A.	1-3	80% ~ 2%		1-3	82% ~ 2%		1-3	84% ~ 6%		1-3	82% ~ 10%		1-3	83% ~ 9%	
MK - Electric	K1501 WHILV	R	60 ~ 500 W - Turn	1-3	85% ~ 1%		1-3	90% ~ 2%		1-3	89% ~ 1%		1-3	92% ~ 1%		1-3	78% ~ 8%		1-3	88% ~ 8%	
Philips	UID8670	LED	2 ~ 100 VA-LED - Push (3wire)	1-3	86% ~ 1%		1-3	89% ~ 1%		1-3	94% ~ 2%		1-3	94% ~ 1%		1-3	82% ~ 1%		1-3	90% ~ 1%	
Schneider	SBD315RC (SBD 315, SDD 315)	RC	315 W	1-3	93% ~ 2%		1-3	92% ~ 2%		1-3	93% ~ 2%		1-3	98% ~ 1%		1-3	88% ~ 1%		1-3	90% ~ 1%	
Schneider	SBD315RC (ATD315)(CCT011533)	RC	315 W	1-3	93% ~ 2%		1-3	92% ~ 2%		1-3	93% ~ 2%		1-3	98% ~ 1%		1-3	88% ~ 1%		1-3	90% ~ 1%	
Schneider	SBD200 (WDE 002299)		4 ~ 400 VA - Turn Universal (2wire)	1-3	88% ~ 3%		1-3	90% ~ 4%		3	91% ~ 3%		1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
Schneider	SBD315RC (SBD 315)	RC	315 W	1-3	93% ~ 2%		1-3	90% ~ 4%		1-3	93% ~ 2%		1-3	98% ~ 1%		1-3	88% ~ 1%		1-3	90% ~ 1%	
Varilight	HQ3W	R		1-3	92% ~ 1%		1-3	99% ~ 1%		1-3	95% ~ 2%		1-3	95% ~ 3%		1-3	94% ~ 3%		1-3	93% ~ 2%	
Vimar	20148	RL	500 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	1-3	94% ~ 1%		1-3	94% ~ 7%		1-3	94% ~ 6%	
Vimar	20162	RL	40 ~ 300 W		N.A.	N.A.		N.A.	N.A.	1-3	95% ~ 5%		1-3	88% ~ 1%		1-3	88% ~ 2%		1-3	91% ~ 1%	
IKEA	E0902 - Dim	R	25 ~ 150 W	1-3	91% ~ 1%		1-3	93% ~ 0%		1-3	96% ~ 2%		1-3	95% ~ 10%		1-3	92% ~ 12%	t.b.d.	1-2	94% ~ 9%	

Note :
#1) Unexpected behaviour can occur outside the range of specified number of lamps.
#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) Various dimmer suppliers offer “active loads” (e.g. Busch Jaeger Kompensator 6596) to minimize flicker issues due to low LED loads

KEY

x - y	Excellent dimming with x - y lamps, lamps can reach deep dim levels (below 10%)
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				LEDcandle + LEDlustre				LEDspot											
				E14 4-25 W Dimmable Warm Glow		E14 6-40 W Dimmable Warm Glow		GU10 4-35 W Dimmable Warm Glow		GU10 4-35 W Dimmable			GU10 5.5-50 W Dimmable			R50 4.5-50 W Dimmable		
																		
				NEW		NEW		NEW		NEW			NEW			NEW		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286610	R		t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	2-20			2-9			2-9		
Berker |INSTA	286710	RC	20 ~ 360 W - Turn	2-18	96% ~ 2%	2-12	93% ~ 2%	2-18	99% ~ 1%	2-21	92% ~ 22%		2-10	90% ~ 20%		2-10	90% ~ 20%	
Berker |INSTA	283010	R	60 ~ 400 W - Turn	2-20	89% ~ 1%	2-13	89% ~ 1%	2-20	95% ~ 5%	2-23	95% ~ 14%		2-10	94% ~ 8%		2-10	94% ~ 8%	
Busch Jaeger |ABB	2200 U - 503	R	60 ~ 400 W - Turn	2-20	92% ~ 1%	2-13	92% ~ 1%	2-20	94% ~ 6%	2-23	95% ~ 17%	< 2	2-10	94% ~ 16%	< 2	2-10	94% ~ 16%	< 2
Busch Jaeger |ABB	2247 U	R	60 ~ 400 W - Turn	2-25	91% ~ 1%	2-17	91% ~ 1%	2-20	94% ~ 4%	2-29	95% ~ 3%		2-10	92% ~ 2%		2-10	92% ~ 2%	
Busch Jaeger |ABB	2250 U	RL	20 ~ 500 W - Turn	2-30	88% ~ 1%	2-20	93% ~ 1%	2-20	97% ~ 5%	2-34	95% ~ 3%		2-10	92% ~ 1%		2-10	92% ~ 1%	
Busch Jaeger |ABB	6513 U - 102	R	40 ~ 420 W - Turn	2-21	94% ~ 2%	2-14	91% ~ 2%	2-20	97% ~ 6%	2-24	96% ~ 22%		2-10	96% ~ 20%		2-10	96% ~ 20%	
Busch Jaeger |ABB	6523 U	LED	2 ~ 100 VA-LED - Turn	2-20	84% ~ 1%	2-17	83% ~ 1%	2-20	93% ~ 2%	2-20	90% ~ 1%		2-10	92% ~ 1%		2-10	92% ~ 1%	
ELKO| Schneider	SBD200LED (CCTEL10501)	LED/RC	4 ~ 200 W(RC) 4 ~ 40 W(RL)	2-20	95% ~ 2%	2-13	92% ~ 2%	2-20	89% ~ 6%	2-23	91% ~ 23%		2-10	88% ~ 20%		2-10	88% ~ 20%	
ELKO| Schneider	SBD315RC (315 GLE)	RC	315 W	2-15	88% ~ 1%	2-11	87% ~ 0%	2-16	92% ~ 4%	2-18	94% ~ 5%		2-10	88% ~ 2%		2-10	88% ~ 2%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	RLC 3	15 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.		N.A.	N.A.
Feller| Schneider	SBD200LED (CCTCH10601)	LED/RC	4 ~ 200 W(RC) 4 ~ 40 W(RL)	2-20	95% ~ 2%	2-13	92% ~ 2%	2-20	89% ~ 6%	2-23	91% ~ 23%		2-10	88% ~ 20%		2-10	88% ~ 20%	
GIRA	2390 00/ 100	LED	7 ~ 100 W - Push (3wire)	2-25	94% ~ 1%	2-17	92% ~ 1%	6-20	90% ~ 3%	2-29	91% ~ 10%	< 2	2-10	92% ~ 8%		2-10	92% ~ 8%	
Jung	225 TDE	RC	20 ~ 525 W - Turn	2-26	89% ~ 2%	2-18	89% ~ 2%	2-20	93% ~ 6%	2-30	94% ~ 25%		2-10	92% ~ 24%		2-10	92% ~ 24%	
Jung	1271LEDDE	LED	3 ~ 100 W - Push (3wire)	2-25	93% ~ 4%	2-17	92% ~ 3%	6-20	91% ~ 9%	2-29	91% ~ 38%	< 2	2-10	92% ~ 36%		2-10	92% ~ 36%	
Legrand	774161	RL	40 ~ 400 W - Turn		N.A.		N.A.		N.A.		N.A.	N.A.	3-10	92% ~ 8%	< 4	3-10	92% ~ 8%	< 4
Legrand	67081	RL	40 ~ 400 W - Turn		N.A.		N.A.		N.A.		N.A.	N.A.	3-10	96% ~ 16%		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.	N.A.
Legrand	67084	RLC	8 - 300 VA - Push LED (3wire)		N.A.		N.A.	9-20	95% ~ 1%	2-23	90% ~ 6%	< 4	2-10	88% ~ 1%	< 5	2-10	88% ~ 1%	< 5
Legrand	67085 (078406)	RLC	8 - 300 VA - Push LED (3wire)	2-15	94% ~ 1%	2-10	91% ~ 1%	2-15	94% ~ 2%	2-17	97% ~ 3%		2-10	96% ~ 1%		2-10	96% ~ 1%	
Merten| Schneider	SBD200LED (MEG5134-0000)	LED/RC	4 ~ 200 W(RC) 4 ~ 40 W(RL)	2-20	95% ~ 2%	2-13	92% ~ 2%	2-20	89% ~ 6%	2-23	91% ~ 23%		2-10	88% ~ 20%		2-10	88% ~ 20%	
Merten| Schneider	SBD315RC (MEG5136-0000)	RC	315 W	2-15	88% ~ 1%	2-11	87% ~ 1%	2-16	92% ~ 4%	2-18	94% ~ 5%		2-10	88% ~ 2%		2-10	88% ~ 2%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	RLC	20 ~ 420 VA	2-20	91% ~ 1%	2-14	90% ~ 1%	2-20	91% ~ 3%		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	R	65 ~ 450 W - Turn	2-23	79% ~ 1%	2-15	77% ~ 1%	2-20	80% ~ 4%	2-26	83% ~ 12%		2-10	80% ~ 14%		2-10	80% ~ 14%	
MK - Electric	K1501 WHILV	R	60 ~ 500 W - Turn	2-25	88% ~ 1%	2-17	87% ~ 1%	2-20	85% ~ 4%	2-10	88% ~ 14%		2-10	86% ~ 14%		2-10	86% ~ 14%	
Philips	UID8670	LED	2 ~ 100 VA-LED - Push (3wire)	2-20	84% ~ 1%	2-17	83% ~ 1%	2-20	93% ~ 2%	2-20	90% ~ 1%		2-10	92% ~ 1%		2-10	92% ~ 1%	
Schneider	SBD315RC (SBD 315, SDD 315)	RC	315 W	2-15	88% ~ 1%	2-11	87% ~ 1%	2-16	92% ~ 4%	2-18	94% ~ 5%		2-10	88% ~ 2%		2-10	88% ~ 2%	
Schneider	SBD315RC (ATD315)(CCT011533)	RC	315 W	2-15	88% ~ 1%	2-11	87% ~ 1%	2-16	92% ~ 4%	2-18	94% ~ 5%		2-10	88% ~ 2%		2-10	88% ~ 2%	
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.	2-10	88% ~ 20%	
Schneider	SBD315RC (SBD 315)	RC	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.	2-10	88% ~ 2%	
Varilight	HQ3W	R		2-20	91% ~ 1%	2-13	90% ~ 1%	2-20	93% ~ 4%	2-23	92% ~ 8%		2-10	92% ~ 6%		2-10	92% ~ 6%	
Vimar	20148	RL	500 W	6-25	90% ~ 1%	4-17	92% ~ 1%		N.A.	2-29	95% ~ 16%	< 30	3-10	92% ~ 8%	< 11	3-10	92% ~ 8%	< 11
Vimar	20162	RL	40 ~ 300 W	6-15	92% ~ 1%	4-10	86% ~ 2%		N.A.	2-17	91% ~ 13%	< 18	2-10	88% ~ 8%	< 11	2-10	88% ~ 8%	< 11
IKEA	E0902 - Dim	R	25 ~ 150 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.

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Data subject to change.

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