





#### **KEY**

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance	
x-y	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Dimmer Jamp combination not tested	

				LED spot												
					r LEDexpertco 3.9-35W GU1 CRI97			LEDexpertcolo 5.5-50W GU10 CRI97		c	lassic LEDspot I DimTone 4.5-35W GU10		CI	assic LEDspot I DimTone 5-50W GU10	иV	
					(n. 7)			(N.2))			ww			ww		
				ng mance	80	<b>B</b>	ng mance	8	<b>2</b> 6	ng mance	Bi C	Pa Pa	ng mance	80	pa	
Brand	Туре	Туре	Load	Dimming	Dimmin <sub>q</sub> Range	Glowing	Dimming	Dimming Range	Glowing	Dimming Performan	Dimming Range	Glowing	Dimming Performa	Dimming Range	Glowing	
Berker  INSTA	286710	[RC]	20 ~ 360 W–Turn	2-5 (max 18)	88%~7%		2-5 (max 9)	91%~5%		2-18	92%~7%		2-13	92%-6%		
Berker  INSTA	283010	[R]	60 ~ 400 W-Turn	2-5 (max 20)	93%6%		2–3	95~5%		2-18	93%~5%		2-15	94%-4%		
Bticino	L4407	(D)	60 ~ 250 W	2. 5 (222.20)	N.A.	N.A.	2.5 (*******14)	0.40/, 170/		2.10	N.A.	N.A.	2.45	N.A.	N.A.	
Busch Jaeger  ABB Busch Jaeger  ABB	2200 U - 503 2247 U	[R] [RL]	60 ~ 400 W-Turn 20 ~ 500 W-Turn	2-5 (max 20) 2-5 (max 20)	83%~17% 95%~3%		2–5 (max 14) 2–5 (max 14)	94%~17% 95%~3%		2-18 2-20	92%~6% 92%~3%		2-15 2-18	96%~5% 96%~3%		
Busch Jaeger   ABB	2250 U	[R]	60 ~ 600 W-Turn	2-5 (max 25)	93%~3%		2–5 (max 14)	96%~3%		2-20	91%~3%		2-20	97%~3%		
Busch Jaeger  ABB	6513 U - 102	[RC]	40 ~ 420 W-Turn	2-5 (max 21)	92%~4%		2-5 (max 15)	94%~6%		2-19	95%~6%		2-15	96%~6%		
Busch Jaeger  ABB	6523 U	[LED]	2 ~ 100 VA-LED-Turn	2-5 (max 25)	92%~4%		2-5 (max 18)	91%~3%		2-20	89%~3%		2-18	93%~3%		
Busch Jaeger  ABB	6526 U	[LED]	2 ~ 100 VA-LED-Push (2wire)	2–19	92%~3%		2.54	0004 004		2-20	96%~4%		2-18	97%~6%		
ELKO  Schneider ELKO  Schneider	SBD200LED (CCTEL10501)  SBD315RC (315 GLE )	[RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	2–5 (max 10) 2–5 (max 16)	89%~11% 88%~3%		2–5 (max 7) 2–5 (max 11)	90%~8%		2-18 2-14	91%~7% 92%~3%		2-15	97%~4%		
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	2–5 (max 10)	94%~3%		2-5 (max 11)	96%~3%		2-19	93%~3%					
Eltako	EVD61NPN-UC		400W 3-wire Push Module							2-18	98%~3%		2-15	98%~4%	< 16	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	2-5 (max 10)	89%~11%		2-5 (max 7)	90%~8%		2-18	91%~7%		2-15	97%~4%		
Feller  Schneider	40300 (SBD315)	[RLC]	300W	2–5 (max 16)	88%~3%		2-5 (max 11)	91%~3%								
Feller  Schneider	40420 (SBD420)	[RLC]	420W	2–5 (max 21) 2–19	94%~3% 91%~12%		2–5 (max 15)	96%~3%		2-19	96%~10%		2-15	95%~8%		
GIRA GIRA	1176-00/01 2390 00/ 100	[RLC]	50 ~ 420W 7 ~ 100W –Push (3wire)	2–19 2–5 (max 25)	86%~24%		2-5 (max 18)	91%~25%		2-19	96%~10%		2-15	95%~8%		
Hager	EVN 011	[RC]	300VA	2–15	96%~10%		(			2-13	98%~3%	< 12	2-11	98%~5%	< 12	
Hager	EVN 012	[RC]	300W	2–15	96%~9%					2-13	98%~4%	< 12	2-11	97%~5%	< 12	
Hager	EVN 004	[RL]	500VA	2–19	96%~10%					2-20	98%~3%		2-18	97%~5%		
Jung	225 TDE	[RC]	20 ~ 525 W–Turn	2–5 (max 26)	91%~3%		2–5 (max 19)	93%~11%		2-20	92%~7%		2-16	93%~7%		
Jung Klik aan Klik uit	1271LEDDE AWMD-250	[LED]	3 ~ 100W –Push (3wire) 3 ~ 24W	2–5 (max 25) 3–6	89%~3% 72%~17%		2–5 (max 18)	92%~3%		2-20 2-5	89%~11% 88%~3%		2-16	91%~3% N.A.	N.A.	
Klik aan Klik uit	ACM 300	[CCD]	300W –3-wire Push LED Dimmer	2–15	89%~3%					2-13	90%~3%		2-11	91%~4%	14.74.	
Legrand	774161	[RL]	40 ~ 400 W-Turn	5	95%~3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	
Legrand	78401	[RLC]	40 ~ 500W	2–19	91%~1%					2-18	78%~3%	< 3	2-15	95%~3%	< 3	
Legrand	67081	[RL]	40 ~ 400 W-Turn	3–5 (max 20)	93%~3%		2–5 (max 14)	96%~3%			N.A.	N.A.		N.A.	N.A.	
Legrand	67082 67083	[RL]	40 ~ 600 W-Turn 3 ~ 400W	5 3–4	95%~5% 86%~3%		3–5 (max 14)	96%~3%		2-3	N.A. 90%~1%	N.A.		N.A.	N.A.	
Legrand Legrand	67084	[RLC]	8–300 VA –Push LED (3wire)	2–5 (max 15)	93%~3%		2–5 (max 10)	93%~3%		2-18	94%~4%			N.A.	N.A.	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 15)	97%~3%		2-5 (max 10)	98%~3%			N.A.	N.A.	2-11	98%~3%		
Legrand	L4402N	[R]	60 ~ 500W	3–19	86%~11%					10-20	88%~4%		5-18	88%~7%		
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4~400W(RL)	2–5 (max 10)	89%~11%		2–5 (max 7)	90%~8%		2-18	91%~7%		2-15	97%~4%		
Merten  Schneider Merten  Schneider	SBD315RC (MEG5136-0000)  SBD420RCRL (MEG5138-0000)	[RC]	315W 20 ~ 420 VA	2–5 (max 16) 2–5 (max 21)	88%~3% 94%~3%		2–5 (max 11) 2–5 (max 15)	91%~3% 96%~3%		2-14 2-19	92%~3% 93%~3%					
MK - Electric	K1535	[R]	65 ~ 450 W–Turn	2-5 (max 21) 2-5 (max 23)	71%~3%		2–5 (max 15) 2–5 (max 16)	80%~4%		2-19	83%~4%		2-16	84%~5%		
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W–Turn	2–5 (max 25)	77%~3%		2–5 (max 18)	87%~3%		2-20	88%~4%		2-16	89%~5%		
MK - Electric	K4501 WHILV	[RLC]	180W	2–11	84%~3%					2-10	90%~2%		2-9	90%~4%		
MK - Electric	K4500 WHILV	[RLC]	400W	2–16	86%~3%					2-14	89%~2%		2-15	89%~4%		
NIKO PEHA	310-0280X 431HAN	[LED]	2 ~ 100 VA 6 ~ 120W [LED] 6 ~ 60W	2–5 2–6	96%~3% 80%~3%					2-4 2-5	97%~3% 90%~3%		2-4 2-4	99%~2% 88%~3%		
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)	2–5 (max 25)	92%~4%		2-5 (max 18)	91%~3%		2-20	89%~3%		2-18	93%~3%		
RELCO	RP0977	[LED]	4-100W	2–5	96%~16%											
RELCO	RM0545	[LED]	4-100W	2–5	88%~3%											
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2–5 (max 16)	88%~3%		2–5 (max 11)	91%~3%		2-14	92%~3%					
Schneider Schneider	SBD315RC (ATD315)(CCT011533) SBD200 (WDE 002299)	[RC]	315W 4 ~ 400VA-Turn Universal (2wire)	2–5 (max 16) 2–5 (max 10)	88%~3% 89%~11%		2–5 (max 11) 2–5 (max 7)	91%~3% 90%~8%		2-14 2-18	92%~3% 91%~7%		2-15	97%~4%		
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-5 (max 16)	88%~3%		2–5 (max 11)	91%~3%		2-14	92%~3%		2-13	92%~3%		
VADSBO	ED 350	[RC]	50 ~ 350W	2–18	86%~10%					2-16	92%~6%		2-13	91%~8%		
VADSBO	DRS 315	[RC]	50 ~ 315W	2–16	92%~5%					8-14	95%~4%	< 15	3-11	93%~6%	< 12	
VADSBO	DU 250	[RC]	20 ~ 250W	2–13	70%~3%					2-11	89%~3%	< 12	2-9	85%~3%	< 10	
Varilight	HQ3W	[R]	60-400W	2–5 (max 20)	91%~3%		2–5 (max 14)	92%~3%		3-18	91%~3%		2-15	96%~3%		
Varilight Vimar	ICT401 M 20148	[RC]	20-400W 500W	2–19 2–5 (max 25)	75%~3% 93%~3%	< 6	2–5 (max 18)	94%~3%	< 5	2-18 2-20	95%~1% 93%~4%	< 4	2-15 2-16	93%~2% 95%~4%	< 17	
Vimar	14153	[R]	35511	2–19	99%~3%		2 3 (max 10)	3 - 70 - 3 /0		2-20	93%~4%		2-18	95%~4%	- 1/	
Vimar	20160	[RC]		2–15	90%~3%					2-13	94%~1%	< 14	2-18	96%~3%	< 17	
Vimar	20162	[RL]	40 ~ 300W	2-5 (max 15)	91%~3%	< 6	2–5 (max 10)	90%~3%	۲6	2-13	91%~3%	< 10	2-11	90%~4%	< 12	
Philips Dynalite	DDLE801		(100W per channel)	2–5	79%~3%		2–5	90%~3%					5-16	92%~3%		
Philips Dynalite	DDTM102 Module		(460 W per channel)	2–5 (max 20)	87%~3%		2–5 (max 16)	90%~3%					2-16	92%~3%		
Note:																

- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
- #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
- #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems) #4b) Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
- #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. Therefor 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 performace of LED products.
- $Philips\ cannot\ be\ held\ responsible\ for\ inaccuracies\ in\ the\ compatibility\ lists\ due\ to\ technical\ changes\ in\ dimmers$ #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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### 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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips		
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LED spot MASTER VALUE LEDspot MV MASTER VALUE LEDspot MV 4.4-50W GU10 5.5-50W GU10 D 3.7-35W GU10 D 4.9-50W GU10 Type Type Load Brand Berker IINSTA 286710 [RC] 20 ~ 360 W-Turn 91% ~ 25% 85% ~ 19% 94% ~ 8% 92% ~ 3% 283010 60 ~ 400 W-Turn 87% ~ 3% 93% ~ 3% Berker | INSTA [R] L4407 60 ~ 250 W N.A. Bticino N.A. N.A. Busch Jaeger |ABB 2200 U-503 [R] 60 ~ 400 W-Turn 2-18 86% ~ 4% Busch Jaeger | ABB [RL] 2 - 8 (max 27) 89% ~ 3% 2-20 96% ~ 7% 98% ~ 4% 2 - 8 (max 20) 94% ~ 3% Busch Jaeger | ABB 2250 U 60 ~ 600 W-Turn 2 - 8 (max 22) 86% ~ 4% Busch Jaeger |ABB 6513 U-102 40 ~ 420 W-Turn 94% ~ 23% Busch Jaeger |ABB [LED] 96% ~ 18% 2~100 VA-LED-Push (2wire) 2-20 96% ~ 24% 95% ~ 6% 91% ~ 5% Busch Jaeger | ABB 6526 U [LED] ELKO| Schneider SBD200LED (CCTEL10501) [LED/RC] 4 ~ 200W(RC) 4 ~ 400W(RL) 2-20 92% ~ 29% 85% ~ 23% N.A. ELKO| Schneider SBD315RC (315 GLE ) [RC] 315W - 8 (max 12) 91% ~ 6% 91% ~ 5% FLKOl Schneider SBD420RCRL (CCTFL13011) [RLC] 420W 2-19 94% ~ 14% 97% ~ 13% N.A. 3 - 8 (max 17) EVD61NPN-UC 400W 3-wire Push Module 2-14 99% ~ 14% Eltako 40200 (SBD200LED CCTCH10601) 4 ~ 200W(RC) 4 ~ 400W(RL) Feller| Schneider 2-20 [LED/RC] Feller | Schneider 40300 (SBD315) [RLC] 300W 2 - 8 (max 12) Feller| Schneider 40420 (SBD420) 420W GIRA 1176-00/01 [RLC] 50 ~ 420W GIRA 2390 00/ 100 [LED] 7 ~ 100W -Push (3wire) 2-13 97% ~ 13% 2-18 90% ~ 14% 90% ~ 3% 91% ~ 3% Hager 2-14 EVN 012 [RC] 300W 98% ~ 19% 97% ~ 16% 98% ~ 8% 94% ~ 7% Hager Hage EVN 004 [RL] 500VA 2-20 98% ~ 19% 2-18 2 - 20 98% ~ 8% 95% ~ 7% 20 ~ 525 W-Turn 2-20 2 - 8 (max 28) 2 - 8 (max 21) Jung 1271LEDDE 93% ~ 37% 88% ~ 35% Jung [LED] 3 ~ 100W -Push (3wire) 2-20 2 - 8 (max 27) 91% ~ 3% 2 - 8 (max 20) Klik aan Klik uit AWMD-250 88% ~ 3% 84% ~ 11% Klik aan Klik uit ACM 300 300W -3-wire Push LED Dimmer 93% ~ 3% N.A. N.A. Legrand 774161 [RL] 40 ~ 400 W-Turn N.A. N.A. N.A. 2 - 8 (max 16) 78401 40 ~ 500W 67081 40 ~ 400 W-Turn N.A. N.A. N.A. 3 - 8 (max 16) [RL] N.A. Legrand 3 - 8 (max 24) Legrand 67082 [RL] 40 ~ 600 W-Turn N.A. N.A. N.A. N.A. N.A. 67083 Legrand N.A. 8-300 VA -Push LED (3wire) 2 - 8 (max 16) 96% ~ 4% 67084 [RLC] 88% ~ 15% - 8 (max 12) 93% ~ 3% Legrand Legrand 67085 (078406) [RLC] 8-300 VA -Push LED (3wire) N.A. N.A. 99% ~ 3% 2 - 8 (max 16) 99% ~ 3% 2 - 8 (max 12) 95% ~ 3% 87% ~ 10% L4402N SBD200LED (MEG5134-0000) 92% ~ 29% 4~200W(RC) 4~400W(RL) 2-20 N.A. 92% ~ 3% [LED/RC] Merten | Schneider Merten| Schneider SBD315RC (MEG5136-0000) 315W 2-14 91% ~ 6% 91% ~ 5% 2 - 8 (max 12) SBD420RCRL (MEG5138-0000) 85% ~ 20% 3-20 77% ~ 15% 2 - 8 (max 18) 70% ~ 3% MK-Electric K1535 65 ~ 450 W-Turn 52% ~ 3% MK-Electric K1501 WHILV 60 ~ 500 W-Turn 3-20 89% ~ 19% 80% ~ 3% [RLC] MK-Electric 180W 3-15 90% ~ 20% 86% ~ 5% 86% ~ 4% MK-Electric K4500 WHILV [RLC] 400W NIKO 310-0280X 2 ~ 100 VA 97% ~ 8% 97% ~ 7% 99% ~ 3% 95% ~ 3% 6~120W [LED] 6~60W PEHA 431HAN [RL] 87% ~ 10% 85% ~ 3% Philips UID8670 [LED] 2 ~ 100 VA-LED-Push (3wire) 2-20 90% ~ 3% 93% ~ 17% 89% ~ 3% 89% ~ 3% RELCO RP0977 4-100W RELCO RM0545 [LED] 4-100W Schneide SBD315RC (SBD 315, SDD 315) [RC] 315W 3 - 8 (max 17) 95% ~ 3% 2 - 8 (max 12) 3 - 8 (max 17) 95% ~ 3% SBD315RC (ATD315)(CCT011533) 91% ~ 6% SBD200 (WDE 002299) 4 ~ 400VA-Turn Universal (2wire) 2-20 N.A. Schneider Schneide SBD315RC (SBD 315) 315W 91% ~ 6% 91% ~ 5% 95% ~ 3% 93% ~ 34% 97% ~ 21% 93% ~ 6% **VADSBO DRS 315** [RC] 50 ~ 315W 90% ~ 5% 77% ~ 3% VADSBO DU 250 89% ~ 9% 84% ~ 3% Varilight HQ3W 2 - 8 (max 21) 85% ~ 3% - 8 (max 16) 92% ~ 3% ICT401 M 2-18 Varilight [RC] 20-400W 94% ~ 10% 92% ~ 7% 2 - 20 84% ~ 3% 2 - 16 79% ~ 3% 20148 [RL] 94% ~ 17% 88% ~ 16% 87% ~ 3% 2 - 20 99% ~ 3% 14153 2-20 98% ~ 3% 97% ~ 9% 2 - 20 Vimar [R] 86% ~ 5% 89% ~ 3% Vimar 20160 [RC] 2-14 94% ~ 13% 94% ~ 12% 2 - 20 2 - 12 20162 40 ~ 300W 94% ~ 4% 88% ~ 9% 2 - 8 90% ~ 3% 2 - 8 89% ~ 3% DDLE801 Philips Dynalite (100W per channel) Philips Dynalite 2 - 8 (max 24) 94% ~ 3% DDTM102 Module (460 W per channel) 90% ~ 3% 2 - 8 (max 18) 89% ~ 3%

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- #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performace of LED products.
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N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TDD	Diametel and combination not tested	

LED spot MASTER VALUE LEDspot MV MASTER VALUE LEDspot M\ MASTER VALUE LEDspot MV MASTER VALUE LEDspot MV 3.5-35W GU10 D 3.7-35W GU10 D 4.9-50W GU10 D 7-80W GU10 Type Type Load Brand Berker IINSTA 286710 [RC] 20 ~ 360 W-Turn 96% ~ 31% 93% ~ 26% 89%-20% 92% ~ 22% 283010 60 ~ 400 W-Turn Berker | INSTA L4407 60 ~ 250 W N.A. N.A. Bticino N.A. Busch Jaeger |ABB 2200 U-503 [R] 60 ~ 400 W-Turn 2-23 87% ~ 6% Busch Jaeger | ABB [RL] 5 (max 27) 91% ~ 4% 2 - 5 (max 20) 98% ~ 5% 95%- 4% 2-34 Busch Jaeger | ABB 2250 U [R] 60 ~ 600 W-Turn 95% ~ 3% Busch Jaeger |ABB 6513 U-102 40 ~ 420 W-Turn 5 (max 22) 98% ~ 23% 2 - 5 (max 17) 96% ~ 21% 2-24 96% ~ 22% 5 (max 27) 90% ~ 3% Busch Jaeger |ABB [LED] 2~100 VA-LED-Push (2wire) 92% ~ 17% 2-20 Busch Jaeger | ABB 6526 U [LED] 95% ~ 16% 87% ~ 33% ELKO| Schneider SBD200LED (CCTEL10501) [LED/RC] 4 ~ 200W(RC) 4 ~ 400W(RL) N.A. 2-23 ELKO| Schneider SBD315RC (315 GLE ) [RC] 315W - 5 (max 12) 94% ~ 7% 89%- 4% FLKOl Schneider 2 - 5 (max 17) SBD420RCRL (CCTEL13011) [RLC] 420W N.A. 97% ~ 15% 95%- 12% N.A. EVD61NPN-UC 400W 3-wire Push Module 99% ~ 10% Eltako Feller| Schneider 40200 (SBD200LED CCTCH10601) 4 ~ 200W(RC) 4 ~ 400W(RL) N.A. [LED/RC] Feller | Schneider 40300 (SBD315) [RLC] 300W 5 (max 12) 94% ~ 7% 89%- 4% Feller| Schneider 40420 (SBD420) 420W GIRA 1176-00/01 [RLC] 50 ~ 420W 93% ~ 27% GIRA 2390 00/ 100 [LED] 7 ~ 100W -Push (3wire) 91% ~ 15% 91% ~ 14% 2-29 91% ~ 10% Hager 96% ~ 13% 96% ~ 22% Hager EVN 012 [RC] 300W 2 - 16 2 - 12 97% ~ 21% 2-17 98% ~ 13% Hage EVN 004 [RL] 500VA 2 - 20 95% ~ 22% 2 - 20 99% ~ 21% 2-20 98% ~ 16% Jung 94% ~ 33% 20 ~ 525 W-Turn 5 (max 28) - 5 (max 21) 2-30 1271LEDDE 89% ~ 13% 93% ~ 13% 2-29 91% ~ 38% Jung [LED] 3 ~ 100W -Push (3wire) 5 (max 27) - 5 (max 20) Klik aan Klik uit AWMD-250 84% ~ 32% Klik aan Klik uit ACM 300 300W -3-wire Push LED Dimmer N.A. N.A. N.A. 94%- 17% Legrand 774161 [RL] 40 ~ 400 W-Turn N.A. N.A. 78401 [RLC] 40 ~ 500W 67081 40 ~ 400 W-Turn N.A. N.A. N.A. N.A. N.A. [RL] Legrand Legrand 67082 [RL] 40 ~ 600 W-Turn N.A. N.A. N.A. N.A. N.A. 67083 Legrand 96% ~ 22% 93%- 13% 8-300 VA -Push LED (3wire) 2-23 67084 [RLC] 95% ~ 18% Legrand Legrand 67085 (078406) [RLC] 8-300 VA -Push LED (3wire) 97% ~ 3% 2 - 5 (max 12) 98% ~ 3% 97%- 3% 2-17 97% ~ 3% L4402N 60 ~ 500W SBD200LED (MEG5134-0000) N.A. 2-23 4~200W(RC) 4~400W(RL) Merten| Schneider [LED/RC] Mertenl Schneider SBD315RC (MEG5136-0000) 315W - 5 (max 12) 94% ~ 7% 89%- 4% 2-18 94% ~ 5% SBD420RCRL (MEG5138-0000) N.A. 81% ~ 17% 2 - 8 (max 18) MK-Electric K1535 65 ~ 450 W-Turn 71% ~ 15% 83% ~ 12% MK-Electric K1501 WHILV 60 ~ 500 W-Turn 79% ~ 17% 91% ~ 18% 86% ~ 15% 88% ~ 14% MK-Electric [RLC] 180W 87% ~ 15% 87% ~ 13% MK-Electric K4500 WHILV [RLC] 400W NIKO 310-0280X 2 ~ 100 VA 96% ~ 6% 96% ~ 5% 98% ~ 24% 6~120W [LED] 6~60W PEHA 431HAN [RL] Philips UID8670 [LED] 2 ~ 100 VA-LED-Push (3wire) 5 (max 27) 90% ~ 3% 93% ~ 3% 88%-3% 2-20 90% ~ 3% 4-100W RELCO RP0977 RELCO RM0545 [LED] 4-100W SBD315RC (SBD 315, SDD 315) 96% ~ 9% Schneide [RC] 315W - 5 (max 17) 2 - 5 (max 12) 94% ~ 7% SBD315RC (ATD315)(CCT011533) SBD200 (WDE 002299) 4 ~ 400VA-Turn Universal (2wire) N.A. 2-23 Schneider 90%-24% Schneide SBD315RC (SBD 315) 315W 96% ~ 9% 2 - 5 (max 12) 94% ~ 7% 89%- 4% 94% ~ 5% 91% ~ 29% 93% ~ 20% **VADSBO DRS 315** [RC] 50 ~ 315W 2-14 VADSBO DU 250 [RC] 20 ~ 250W 3 - 14 83% ~ 9% 83% ~ 7% Varilight HQ3W 2-23 ICT401 M 84% ~ 3% Varilight [RC] 20-400W 2 - 20 83% ~ 3% 2 - 16 20148 [RL] 85% ~ 17% 95% ~ 17% Vimar 14153 97% ~ 4% [R] Vimar 20160 [RC] 91% ~ 11% 96% ~ 9% 91% ~ 9% 20162 40 ~ 300W 92% ~ 25% 94% ~ 18% 91% ~ 13% 88% ~ 8% Philips Dynalite 93% ~ 9% 88% ~ 8% 2-20 91% ~ 9% DDLE801 (100W per channel) 2 - 8 (max 18) 95% ~ 5% Philips Dynalite DDTM102 Module (460 W per channel) - 8 (max 24) 92% ~ 3% 90% ~ 4% 93% ~ 4%

### Note:

- \*\*II) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
- #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
- #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems) #4b) Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
- #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. Therefor we indicated 3% as minimum lightlevel as lab condition.
- #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor 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 performace of LED products.
- Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:

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













### 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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Dimmer Jamp combination not tested	

									LED :	spot					
										•	Coverno I EDenet MV				
			MASTER VALUE LEDspot MV 5-50W GU10				repro LEDspot    -35W GU10 Dir		Corepro LEDspot MV 5-50W GU10 Dim			Master LEDspot PAR Classic D 6-50W PAR20			
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				Dimming Performa	ning	Glowing	Dimming Performa	Dimming Range	ing	Dimming Performa	Dimming	in g	Dimming	Dimming Range	Glowing
	1_	1_	1	imn	Dimmir Range	low	imn	imn ang	Glowing	imn erfo	imn	Glowing	imn	ang	low
Brand	Туре	Туре	Load			U			U			U			U
Berker  INSTA	286710	[RC]	20 ~ 360 W-Turn	2-10	90% ~ 20%		2-8	94%~8%		2–8	92%~3%		1–10	91%~12%	
Berker  INSTA	283010	[R]	60 ~ 400 W-Turn	2-10	94% ~ 8%	A. A	2–8	87%~3%		2–8	93%~3%	NI A	1–5	93%~6%	
Bticino	L4407	(D)	60 ~ 250 W	2.40	N.A.	N.A.	2.0	N.A.	N.A.	2.0	N.A.	N.A.	1.10	N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 ~ 400 W-Turn	2-10	94% ~ 16%	< 2	2–8	86%~4%		2–8	92%~3%		1–10	93%~6%	
Busch Jaeger   ABB	2247 U	[RL]	20 ~ 500 W-Turn	2-10	92% ~ 3%		2–8	86%~3%		2-8	94%~3%		1–14	92%~3%	
Busch Jaeger   ABB	2250 U	[R]	60 ~ 600 W-Turn	2-10	92% ~ 3%		2–8	89%~3%		2-8	94%~3%		1-8	95%~3%	
Busch Jaeger ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	2-10	96% ~ 20%		2-8	96%~4%		2-8	94%~3%		1-15	92%~12%	
Busch Jaeger  ABB Busch Jaeger  ABB	6523 U 6526 U	[LED]	2 ~ 100 VA-LED-Turn 2 ~ 100 VA-LED-Push (2wire)	2-10 2-20	92% ~ 3% 89% ~ 29%		2–8 2–20	89%~3% 93%~3%		2–8 2–20	89%~3% 94%~3%		1–14	93%~3% 94%~10%	
			4 ~ 200W(RC) 4 ~ 400W(RL)				2-20		NI A						
ELKO  Schneider ELKO  Schneider	SBD200LED (CCTEL10501)  SBD315RC (315 GLE )	[LED/RC]	315W	2-10	88% ~ 20%		3~8	N.A.	N.A.	2-8	92%~3%		1–10 1–9	92%~14% 92%~4%	
ELKO  Schneider ELKO  Schneider	SBD315RC (315 GLE ) SBD420RCRL (CCTEL13011)	[RC]	420W	2-10	88% ~ 3% N.A.	N.A.	3~8	95%~3% N.A.	N.A.	2–8 3–8	92%~3% 95%~3%		1-9	92%~4%	
Eltako	EVD61NPN-UC	[RLC]	400W 3-wire Push Module		N.A.	N.A.	2–20	99%~3%	N.A.	2–16	95%~3%		1–12	94%~7%	
		(LED/DC)		2.10	000/ 200/		2-20		NI A						
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	2-10	88% ~ 20%		2.0	N.A. 95%~3%	N.A.	2-8	92%~3%		1–10	92%~14% 92%~4%	
Feller   Schneider	40300 (SBD315)	[RLC]	300W				3~8		NI A	2-8	92%~3%		1-9		
Feller  Schneider	40420 (SBD420)	[RLC]	420W	2.20	0.49/ 0.79/		2.20	N.A.	N.A.	3-8	95%~3%		1–12	94%~7%	
GIRA	1176-00/01 2390 00/ 100	[RLC]	50 ~ 420W 7 ~ 100W -Push (3wire)	2-20 2-10	94% ~ 27% 92% ~ 8%		2–20	93%~3%		2–16	94%~3%		1–14 1–10	96%~17% 93%~3%	
	EVN 011	[LED]		2-10	92% ~ 8%	. 2	2-8	91%~3%		2–12	99%~3%		1–10		
Hager	EVN 012	[RC]	300VA	2-14	98% ~ 13%	< 2	2–17 2–17	98%~5%		2–12			1–10	98%~8% 98%~13%	
Hager		[RC]	300W			< 7		98%~5%			99%~3%				
Hager	EVN 004	[RL]	500VA	2-20	98% ~ 13%	< 8	2–17	98%~5%		2–20	97%~3%		1–17	98%~14%	
Jung	225 TDE	[RC]	20 ~ 525 W-Turn 3 ~ 100W -Push (3wire)	2-10	92% ~ 24%		2–8	96%~8%		2-8	91%~3%		1–15	98%~13%	
Jung	1271LEDDE	[LED]	3 ~ 100W -Push (3Wire)	2-10	92% ~ 36%	. 7	2-8	91%~3%	.2	2-8	91%~3%		1–10	92%~3%	
Klik aan Klik uit	AWMD-250 ACM 300	[LED]		2-6	81% ~ 28%	< 7	2–7 2–17	83%~7%	<3	2-5	78%~3%		1-4	93%~19%	
Klik aan Klik uit	774161	[RL]	300W –3-wire Push LED Dimmer 40 ~ 400 W–Turn	3-10	92% ~ 8%	< 4	2-17	80%~3% N.A.	N.A.	2–12	89%~3% 94%~3%		1–10 2–11	93%~6%	
Legrand Legrand	78401	[RLC]	40 ~ 500W	2-19	93% ~ 13%	. 4	2–20	95%~3%	IV.A.	2–8 2–16	94%~3%		1–13	94%~7%	
Legrand	67081	[RL]	40 ~ 400 W-Turn	3-10	95% ~ 15%		2-20	95%~5% N.A.	N.A.	3-8	95%~3%		2-9	94%~7%	
Legrand	67082	[RL]	40 ~ 600 W-Turn	3-10	N.A.	N A		N.A.	N.A.	3–8	94%~3%		2-15	94%~5%	
	67083	[RLC]	3 ~ 400W		89% ~ 10%	IN.A.	2–20	N.A. 84%~3%	N.A.	2–16	81%~3%		1-3	94%~3%	
Legrand Legrand	67084	[RLC]	8–300 VA –Push LED (3wire)	2-10	88% ~ 3%	< 5	2-20	96%~4%	<3	2-8	93%~3%		1-11	93%~8%	
Legrand	67085 (078406)	[RLC]	8–300 VA –Push LED (3wire)	2-10	96% ~ 3%	1.5	2-8	99%~3%	-5	2-8	95%~3%		1-11	97%~3%	
Legrand	L4402N	[R]	60 ~ 500W	5-20	83% ~ 25%		2-0	N.A.	N.A.	3–20	78%~3%		l=3	N.A.	N.A.
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4~400W(RL)	2-10	88% ~ 20%			N.A.	N.A.	2–8	92%~3%		1–10	92%~14%	IN.A.
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-10	88% ~ 3%		3~8	95%~3%	IV.A.	2-8	92%~3%		1–19	92%~4%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	2 10	N.A.	N.A.	5-0	N.A.	N.A.	3–8	95%~3%		1–12	94%~7%	
MK-Electric	K1535	[R]	65 ~ 450 W-Turn	2-10	80% ~ 14%	14174		N.A.	N.A.	2-8	70%~3%		1–13	77%~7%	
MK-Electric	K1501 WHILV	[R]	60 ~ 500 W-Turn	2-10	86% ~ 14%		2–8	80%~3%	7175	2-8	87%~3%		1–15	96%~30%	
MK-Electric	K4501 WHILV	[RLC]	180W	2-10	85% ~ 13%		2–13	78%~3%		2-9	86%~3%		1–7	92%~5%	
MK-Electric	K4500 WHILV	[RLC]	400W	2-15	85% ~ 13%		2–20	77%~3%		2–16	83%~3%		1–11	99%~29%	
NIKO	310-0280X	[LED]	2~100 VA	2-5	97% ~ 23%		2-6	98%~3%		2-4	97%~3%		1–11	96%~4%	
PEHA	431HAN	[RL]	6~120W [LED] 6~60W	2-6	85% ~ 29%		2-3	76%~3%		2–5	81%~3%		1-4	95%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)	2-10	92% ~ 3%		2-8	89%~3%		2-8	89%~3%		1–14	93%~3%	
RELCO	RP0977	[LED]	4-100W				2-6	97%~9%		2-4	97%~6%		1–3	99%~15%	
RELCO	RM0545	[LED]	4-100W				2–6	94%~3%		2–4	92%~3%		1–3	92%~8%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-10	88% ~ 3%		3~8	95%~3%		2–8	92%~3%		1–9	92%~4%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	2-10	88% ~ 3%		3~8	95%~3%		2–8	92%~3%		1–9	92%~4%	
Schneider	SBD200 (WDE 002299)		4 ~ 400VA–Turn Universal (2wire)	2-10	88% ~ 20%			N.A.	N.A.	2–8	92%~3%		1–10	92%~14%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-10	88% ~ 3%		3~8	95%~3%		2–8	92%~3%		1–9	92%~4%	
VADSBO	ED 350	[RC]	50 ~ 350W	2-15	88% ~ 27%		2–20	90%~7%		2–14	88%~4%		1–12	93%~14%	
VADSBO	DRS 315	[RC]	50 ~ 315W	2-15	93% ~ 17%	< 11		N.A.	N.A.	2–13	93%~3%		1–11	95%~10%	
VADSBO	DU 250	[RC]	20 ~ 250W	2-12	83% ~ 8%	< 11	2–14	91%~3%		2–10	80%~3%	<11	1–14	96%~17%	
Varilight	HQ3W	[R]	60-400W	2-10	92% ~ 6%		2-8	85%~3%		2-8	93%~3%		1–8	91%~5%	
Varilight	ICT401 M	[RC]	20-400W		22.0		2–20	84%~3%		2–16	86%~3%		1–13	94%~5%	
Vimar	20148	[RL]	500W	3-10	92% ~ 8%	< 11	2-8	87%~3%	<b>&lt;</b> 9	3–8	92%~3%	<9	1–14	92%~4%	
Vimar	14153	[R]		2-20	98% ~ 3%		2-8	97%~3%		2–20	94%~3%		1–15	99%~3%	
Vimar	20160	[RC]		2-14	92% ~ 8%	< 11	2–20	83%~3%	<9	3–20	94%~3%	<14	1–10	95%~3%	
Vimar	20162	[RL]	40 ~ 300W	2-10	88% ~ 8%	< 11	2-8	94%~4%	- · 9	2-8	91%~3%	<9	1–9	91%~7%	
Philips Dynalite	DDLE801		(100W per channel)	2-20	88% ~ 8%		2–8	90%~3%		2–8	89%~3%		1–14	95%~3%	
Philips Dynalite	DDTM102 Module		(460 W per channel)	2-20	97% ~ 4%		2–8	94%~3%		2–8	89%~3%		1–13	99%~3%	
	'														

- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with
- LED lamps to 20% of specified power; LED dimmers can be loaded to specified power) #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
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- #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 will be <80% lightlevel
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  #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performace of LED products.
- $Philips \ cannot \ be \ held \ responsible \ for \ inaccuracies \ in \ the \ compatibility \ lists \ due \ to \ technical \ changes \ in \ dimmers$  $\hbox{\it \#9)} \quad \hbox{In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC)}. \\$

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Nimmer Jamp combination not tested	

Minor   Type										LED	spot						
Part					Maste	er LEDspot PAR	Classic	Master	Master LEDspot PAR Classic CorePro LEDspo					ot MV Corepro LEDspot MV			
Seminary					,	9.5 - 75W PAR30	os	D	13-100W PAR3	8							
Seminary																	
Seminary																	
Seminary						T			F			T					
Seminary												6C4					
Seminary					Q.			Q.			Q.			ō.			
Seminary					ing	8	g B	ing	e .	B	ing	in and	ē.	ing	, E	ë	
Seminary	Brand	Type	Type	Load	Dimmi	Dimmi	Slowi	Dimmi	Dimmi	Slowi	Dimmi	Jimmi Range	Slowi	Dimmi	Simmi Sange	Slowi	
Mathematical   Math							U										
Mathematical Mat	Berker  INSTA	283010	[R]	60 ~ 400 W-Turn	1–8	96%~11%		1–5	96%~12%		2-10	94%~8%		1 - 4	94% ~ 14%		
Machinger MAIN   2470   1941   25-500 Wine   151   548-56   150   559-56   260   559-56   270	Bticino					N.A.	N.A.		N.A.	N.A.							
BACK													< 2				
Decompage A000   501 - 102   102   102   103 - 102   103 - 102   103 - 102   103 - 103 - 103   103 - 103   103 - 103   103   103 - 103																	
Bach Joseph																	
Machine   Mach			-														
Modern   M	Busch Jaeger  ABB		-														
Machine   Mach	ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	1–8	92%~18%		1–5	93%~15%		2-10	88%~20%		1 - 15	89% ~ 23%		
Miles   Month   Miles   Mile		1 1						1–5			2-10						
Part			[RLC]							N.A.				1 - 15	93% ~ 12%		
Part			II ED /DCI										<17	1 15	0.00/ 2.20/		
Part		· · · · · · · · · · · · · · · · · · ·	-								2-10	88%~20%					
Distance		· · · · · · · · · · · · · · · · · · ·	-							N.A.							
Page	GIRA		-								1-16	94%~30%					
New	GIRA	2390 00/ 100	[LED]	7 ~ 100W -Push (3wire)	1–9	97%~3%		1–5	94%~4%		2-10	92%~8%		1 - 20	91% ~ 12%		
New	Hager	EVN 011	[RC]	300VA	1–6	96%~6%		5	97%~9%		1-12	97%~14%	< 13				
March   Marc																	
													< 3		0004 0004		
Max Mark Max May																	
Michael Millard   ACM 200   S000			-											1-20	91/8 ~ 34/8		
Legand   7861			(cco)														
Legand   \$7081	Legrand	774161	[RL]	40 ~ 400 W–Turn	1–8	96%~6%		1–6	97%~7%		3-10	92%~8%	< 4		N.A.	N.A.	
Legrand   S702   Ri	Legrand	78401	[RLC]	40 ~ 500W	5- 8	93%~8%			N.A.	N.A.	1-16	95%~14%					
Legrand   67083   RLC   3 -400W   RLC   8 -96-3%   RLC   9 -96-3%   RLC								1–5			3-10						
Legrand   G7084   RLC   B-300 VA-Push LED G0WeV   1-6 98%-3%   NA NA   NA   2-10 96%-3%   1-10 92%-14%   1-10 1400   1-10 14								1.6		N.A.	2.16		N.A.		N.A.	N.A.	
Legrand   67/08 (07/40/06)   [RLC]   8-300 WA-Puyls LD Glwre)   16   998-38   1   0   0   0   0   0   0   0   0   0			-					1-6		NΔ			< 5	1 – 15	92% ~ 14%		
Legrand   Legr																	
Merten   Schneider   SB031SRC (MEGS136-0000)   RC   315W   1-7   94%-4%   1-5   94%-4%   1-8   88%-3%   1-15   89%-5%   1-15						_	N.A.	2- 3									
Merical   Schooleder   School	Merten  Schneider	SBD200LED (MEG5134-0000)		4 ~ 200W(RC) 4~400W(RL)	1–8	92%~18%		1–5	93%~15%		2-10	88%~20%		1 - 15	89% ~ 23%		
MK-Electric KISSIS   R  65 - 450 W-Turn   1-5 84%-5%   1-7 88%-10%   2-10 80%-4%   2-4 82%-19%   MK-Electric KISSIS   KISSIS   R  60 - 500 W-Turn   1-7 84%-5%   1-8 93%-6%   2-10 80%-4%   1-20 88%-17%   MK-Electric KISSIS   KISSIS   KISSIS   R  60 - 500 W-Turn   1-7 84%-5%   1-8 93%-6%   1-9 99%-6%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-18%   1-9 99%-7%   1-16 89%-5%   1-16 89%-18%   1-1	Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1–7	94%~4%		1–5	94%~4%		2-10	88%~3%		1 - 15	89% ~ 5%		
MK-Electric   MSOI WHILV   RIC   180W   1-9   93%-8%   1-8   93%-6%   2-10   86%-14%   1-20   88%-7%   1-80   1-										N.A.			N.A.				
MK-Electric K4501 WHILV [RIC] 180W 1-9 93%-8% 1-3 92%-8% 1-9 90%-7% 1-16 89%-8% 1-9 00%-77% 1-16 89%-8% 1-16 89%-18% 1-16																	
MK-Electric   M4500 WHILV   RLC   400W   1-1   93%-6%   1-6   91%-6%   1-16   89%-18%   1-8														1 - 20	88% ~ 17%		
NKO   310-0280X   (LED)   2-100 VA   1-2   86%-4%   1-2   94%-5%   1-4   86%-6%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-7%   1-5   95%-3%																	
PEHA   A31HAN   RL   6 - 120W   LED   6 - 60W   LED   2 - 100 VA-LED-Push (3wire)   1-3   86%-3%   1-5   95%-3%   1-5   95%-3%   2-10   92%-3%   0   0   0   0   0   0   0   0   0																	
RELCO RP0977 [LED] 4-100W 1-2 89%-13% 1-2 99%-17%	PEHA	431HAN	[RL]	6~120W [LED] 6~60W	1–3	86%~3%		1–2	91%~3%		1-5	89%~7%					
RELCO RM0545 [LED] 4-100W 1-2 83%-8% 1-3 93%-9%	Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)	1–11	95%~3%		1–15	96%~3%		2-10	92%~3%					
Schneider         SBD315RC (SBD 315, SDD 315)         [RC]         315W         1-7         94%-4%         1-5         94%-4%         2-10         88%-3%         1-15         89%-5%           Schneider         SBD315RC (ATD315)(CCT011533)         [RC]         315W         1-7         94%-4%         1-5         94%-4%         2-10         88%-3%         1-15         89%-5%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1-8         92%-18%         1-5         93%-15%         2-10         88%-3%         1-15         89%-5%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1-7         94%-4%         1-5         93%-15%         2-10         88%-3%         1-15         89%-23%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1-7         94%-4%         1-5         94%-4%         2-10         88%-3%         1-15         89%-5%           VADSBO         DB 50         [RC]         50-350W         1-7         90%-10%         1-5         94%-11%         2-13         95%-10%         4-4         2-13         95%-10%         4-4         2-13         95%-10%         4-4         2-13         95%-10%         4-1         2-			-														
Schneider         SBD315RC (ATD315)(CCT011533)         (RC)         315W         1-7         94%-4%         1-5         94%-4%         2-10         88%-3%         1-15         89%-5%           Schneider         SBD200 (WDE 002299)         4 - 400VA-Turn Universal (2wire)         1-8         92%-18%         1-5         93%-15%         2-10         88%-20%         1-15         89%-5%           Schneider         SBD315RC (SBD 315)         (RC)         315W         1-7         94%-4%         1-5         94%-4%         2-10         88%-20%         1-15         89%-5%           VADSBO         ED 35O         (RC)         50 - 350W         1-7         92%-13%         1-5         94%-4%         2-10         88%-3%         1-15         89%-5%           VADSBO         DRS 315         (RC)         50 - 350W         1-7         90%-10%         1-5         94%-11%         2-13         95%-19%         14         88%-27%         1-16         88%-27%         1-10         88%-27%         1-10         88%-27%         1-16         94%-11%         1-10         88%-27%         1-11         90%-13%         1-15         94%-11%         1-10         88%-27%         1-11         94%-13%         1-15         94%-11%         1-10         88%-2																	
Schneider       SBD200 (WDE 002299)       4 – 400VA-Turn Universal (2wire)       1–8       92%-18%       1–5       93%-15%       2–10       88%-20%       1 – 15       89% – 23%         Schneider       SBD315RC (SBD 315)       [RC]       315W       1–7       94%-4%       1–5       94%-4%       2–10       88%-3%       1 – 15       89% – 5%         VADSBO       ED 350       [RC]       50 ~ 315W       1–7       94%-13%       1–5       90%-1%       1–14       88%-27%       1 <td></td>																	
Schneider       SBD315RC (SBD 315)       [RC]       315W       1-7       94%-4%       1-5       94%-4%       2-10       88%-3%       1-15       89%-5%         VADSBO       ED 350       [RC]       50~350W       1-7       82%-13%       1-5       90%-1%       1-14       88%-27%       50       50       50       50       50       315W       1-7       90%-10%       1-5       94%-11%       2-13       95%-19%       414       50       50       50       414       50       50       50       315W       1-7       90%-10%       1-5       94%-11%       2-13       95%-19%       414       50       50       414       50       50       414       50       50       414       50       50       50       414       50       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414       50       50       414 <t< td=""><td></td><td></td><td>[RC]</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			[RC]														
VADSBO       ED 350       [RC]       50~350W       1-7       82%-13%       1-5       90%-1%       1-14       88%-27%  <			[RC]														
VADSBO         DU 250         [RC]         20~250W         1-5         88%-15         N.A.         N.A.         N.A.         1-10         85%-9%         < 11         0	VADSBO	ED 350		50 ~ 350W	1–7	82%~13%		1–5	90%~1%		1-14	88%~27%					
Varilight         HQ3W         [R]         60-400W         1-8         95%-4%         1-6         94%-5%         2-10         92%-6%         1-15         94%-13%           Varilight         ICT401 M         [RC]         20-400W         1-8         89%-5%         1-6         93%-5%         1-16         89%-6%         1-8         95%-4%         1-8         95%-5%         3-10         92%-8%         11         2 - 20         92%-16%         <21	VADSBO	DRS 315	[RC]	50 ~ 315W	1–7	90%~10%		1–5	94%~11%		2-13	95%~19%	< 14				
Varilight         ICT401 M         [RC]         20-400W         1-8         89%-5%         1-6         93%-5%         1-16         89%-6%         Image: Control of the control of										N.A.			< 11				
Vimar     20148     [RL]     500W     1-11     97%-3%     1-8     95%-5%     3-10     92%-8%     < 11     2 - 20     92%-16%     < 21       Vimar     14153     [R]     1-11     89%-3%     1-8     96%-3%     1-16     99%-6%     1-8     95%-5%     2-16     94%-11%     < 17														1 - 15	94% ~ 13%		
Vimar     14153     [R]     1-11     89%-3%     1-8     96%-3%     1-16     99%-6%     5     5       Vimar     20160     [RC]     1-6     90%-3%     1-8     92%-3%     2-16     94%-11%     17     5       Vimar     20162     [RL]     40~300W     1-6     96%-8%     1-5     35%-7%     2-10     88%-8%     11     1-10     90%-12%     11       Philips Dynalite     DDLE801     (100W per channel)     1-11     93%-3%     1-8     94%-3%     5     1-20     88%-9%													- 11	2 20	029/ 109/	. 21	
Vimar     20160     [RC]     1-6     90%-3%     1-8     92%-3%     2-16     94%-11%     <17        Vimar     20162     [RL]     40~300W     1-6     96%-8%     1-5     35%-7%     2-10     88%-8%     <11				JOOVV									V 11	2 - 20	92%~10%	* ZF	
Vimar       20162       [RL]       40~300W       1-6       96%-8%       1-5       35%-7%       2-10       88%-8%       < 11       1 - 10       90%-12%       < 11         Philips Dynalite       DDLE801       (100W per channel)       1-11       93%-3%       1-8       94%-3%       1       1 - 20       88%-9%													< 17				
				40 ~ 300W										1 - 10	90% ~ 12%	< 11	
Philips Dynalite         DDTM102 Module         (460 W per channel)         1-9         96%-3%         1-7         93%-4%         1 - 20         90% ~ 3%	Philips Dynalite	DDLE801		(100W per channel)	1–11	93%~3%		1–8	94%~3%					1 - 20	88% ~ 9%		
	Philips Dynalite	DDTM102 Module		(460 W per channel)	1–9	96%~3%		1–7	93%~4%					1 - 20	90% ~ 3%		

- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
- #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected. #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
- #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems)
- #4b) Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
  #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. Therefor 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 performace of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers
- #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:

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













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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
T.B.D.	Dimmer lamp combination not tested	

				IE						D spot							
				C	orePro LEDspot I	MV	Co	repro LEDspot N		clear	MASTER LEDbulb clear						
					-60W R63			4.5-60W R63			6W-40W DimTone		8.5W-60W DimTone				
										15-20-5			t to prove				
											A			F			
					THE REAL PROPERTY.			101			1						
					- 4			30			•			•			
								NEW									
				ance	bo		ance	bo		ance	bū		ance	bū			
				Dimming Performan	Dimming Range	Glowing	Dimming Performance	Dimmin	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performar	Dimming Range	Glowing		
Brand	Туре	Туре	Load			ชี			ชี			ชั			gk		
Berker  INSTA Berker  INSTA	286710 283010	[RC] [R]	20 ~ 360 W–Turn 60 ~ 400 W–Turn	2-15	97%~20%		1 - 5 1 - 5	79%- 3% 85%- 14%		1-3 (max 12) 1-3 (max 13)	87%~3% 90%~3%		1-3 (max 8) 1-3 (max 9)	98%~4% 95%~3%			
Bticino	L4407		60 ~ 250 W								N.A.	N.A.		N.A.	N.A.		
Busch Jaeger  ABB	2200 U-503	[R]	60 ~ 400 W-Turn	2-15	97%~36%	< 16	1 - 5	85% ~ 6%		1-3 (max 13)	93%~3%		1-3 (max 9)	94%~5%			
Busch Jaeger  ABB Busch Jaeger  ABB	2247 U 2250 U	[RL] [R]	20 ~ 500 W-Turn 60 ~ 600 W-Turn	2-20 2-20	98%~3% 98%~3%		1 - 5 1 - 5	85% ~ 3% 85% ~ 3%		1-3 (max 13) 1-3 (max 17)	90%~3%		1-3 (max 9) 1-3 (max 11)	95%~3% 95%~3%			
Busch Jaeger   ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	2-20	98%~21%		1-3	83% ~ 3%		1-3 (max 17)	94%~8%		1-3 (max 11)	96%~5%			
Busch Jaeger  ABB	6523 U	[LED]	2 ~ 100 VA-LED-Turn	2-20	95%~3%		1 - 5	77% ~ 3%		1-3 (max 17)	86%~3%		1-3 (max 11)	89%~3%			
Busch Jaeger  ABB	6526 U	[LED]	2 ~ 100 VA-LED-Push (2wire)							1-3 (max 17)	91%~4%		1-3 (max 11)	88%~5%			
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	2-10	99%~26%		1 - 5	78% ~ 3%		1-3 (max 6)	88%~3%		1-3 (max 4)	90%~4%			
ELKO  Schneider ELKO  Schneider	SBD315RC (315 GLE ) SBD420RCRL (CCTEL13011)	[RC]	315W 420W	2-10	97%~3% N.A.	N.A.	1 - 5 3 - 5	77% ~ 3% 85% ~ 3%		1-3 (max 11) 1-3 (max 11)	93%~3% 89%~3%		1-3 (max 7) 1-3 (max 7)	92%~3% 95%~3%			
Eltako	EVD61NPN-UC	[	400W 3-wire Push Module		111111			3,0		(max m			(				
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	2-10	99%~26%		1 - 5	78% ~ 3%		1-3 (max 6)	88%~3%		1-3 (max 4)	90%~4%			
Feller  Schneider	40300 (SBD315)	[RLC]	300W	2-10	97%~3%		1 - 5	77% ~ 3%									
Feller  Schneider GIRA	40420 (SBD420) 1176-00/01	[RLC]	420W 50 ~ 420W		N.A.	N.A.	3 - 5	85% ~ 3%		1-3 (max 14)	93%~5%		1-3 (max 9)	88%~5%			
GIRA	2390 00/ 100	[LED]	7 ~ 100W -Push (3wire)	2-19	95%~7%		1 - 5	79%- 3%		1-3 (max 17)	86%~3%		1-3 (max 11)	91%~3%			
Hager	EVN 011	[RC]	300VA							1-3 (max 10)	98%~3%		1-3 (max 7)	93%~3%			
Hager	EVN 012	[RC]	300W							1-3 (max 10)	98%~3%		1-3 (max 7)	93%~3%			
Hager	EVN 004	[RL]	500VA	2.20	0.00% 2.50%			N A	NI A	1-3 (max 17)	98%~3%		1-3 (max 11)	93%~3%			
Jung Jung	225 TDE 1271LEDDE	[RC]	20 ~ 525 W-Turn 3 ~ 100W -Push (3wire)	2-20 2-20	98%~25% 96%~46%		1 - 5	N.A. 80%- 3%	N.A.	1-3 (max 18) 1-3 (max 17)	93%~3% 87%~7%		1-3 (max 12) 1-3 (max 11)	96%~5% 91%~7%			
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W							1-3 (max 4)	82%~4%		1-3 (max 2)	83%~5%			
Klik aan Klik uit	ACM 300		300W –3-wire Push LED Dimmer														
Legrand	774161	[RL]	40 ~ 400 W-Turn	2.10	N.A.	N.A.		N.A.	N.A.	1.2 (	0.5% 2%	N.A.	1.2 (2.2.11)	N.A.	N.A.		
Legrand Legrand	78401 67081	[RLC]	40 ~ 500W 40 ~ 400 W-Turn	3-10	97%~15%					1-3 (max 17)	96%~3% N.A.	N.A.	1-3 (max 11)	93%~3% N.A.	N.A.		
Legrand	67082	[RL]	40 ~ 600 W-Turn	3-20	97%~14%						N.A.	N.A.		N.A.	N.A.		
Legrand	67083	[RLC]	3 ~ 400W								N.A.	N.A.	1-3 (max 9)	90%~3%			
Legrand	67084	[RLC]	8–300 VA –Push LED (3wire)	2-15	97%~3%		1 - 2	77%- 3%		1-3 (max 10)	95%~3%		1-3 (max 7)	95%~3%			
Legrand Legrand	67085 (078406) L4402N	[RLC]	8–300 VA –Push LED (3wire) 60 ~ 500W	2-11	99%~3%		1 - 5	93%- 3%		1-3 (max 10)	88%~17% N.A.	N.A.	1-3 (max 7) 1-3 (max 11)	95%~3% 83%~5%			
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4~400W(RL)	2-10	99%~26%		1 - 5	78% ~ 3%		1-3 (max 6)	88%~3%	14174	1-3 (max 4)	90%~4%			
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-10	97%~3%		1 - 5	77% ~ 3%		1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%			
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA		N.A.	N.A.	3 - 5	85% ~ 3%		1-3 (max 14)	89%~3%		1-3 (max 9)	95%~3%			
MK-Electric	K1535	[R]	65 ~ 450 W-Turn	2-17	87%~16%		2	62%- 6%		1-2 (may 17)	N.A.	N.A.	1-3 (max 10)	80%~3%			
MK-Electric MK-Electric	K1501 WHILV K4501 WHILV	[R] [RLC]	60 ~ 500 W-Turn 180W	2-19	93%~16%		3 - 5	69%- 3%		1-3 (max 17) 1-3 (max 6)	85%~3% 88%~3%		1-3 (max 11) 1-3 (max 4)	90%~3%			
MK-Electric	K4500 WHILV	[RLC]	400W							1-3 (max 13)	88%~3%		1-3 (max 9)	85%~3%			
NIKO	310-0280X	[LED]	2 ~ 100 VA							1-3 (max 17)	98%~4%		1-3 (max 11)	95%~5%			
PEHA	431HAN	[RL]	6~120W [LED] 6~60W	2.20	05% 20%					1-3 (max 10)	88%~4%		1-3 (max 7)	83%~5%			
Philips RELCO	UID8670 RP0977	[LED]	2 ~ 100 VA-LED-Push (3wire) 4-100W	2-20	95%~3%		1 - 5	94%- 4%		1-3 (max 17)	86%~3%		1-3 (max 11)	89%~3%			
RELCO	RM0545	[LED]	4-100W				1 - 5	74%- 3%									
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-10	97%~3%		1 - 5	77% ~ 3%		1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%			
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	2-10	97%~3%		1 - 5	77% ~ 3%		1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%			
Schneider Schneider	SBD200 (WDE 002299) SBD315RC (SBD 315)	[RC]	4 ~ 400VA-Turn Universal (2wire)	2-10 2-10	99%~26% 97%~3%		1 - 5 1 - 5	78% ~ 3% 77% ~ 3%		1-3 (max 13) 1-3 (max 11)	88%~3% 93%~3%		1-3 (max 9) 1-3 (max 7)	90%~4%			
VADSBO	ED 350	[RC]	50 ~ 350W	2 10	5770-576		1 3	7 7 70 - 3 70		1-3 (max 11)	91%~5%		1-3 (max 7)	85%~5%			
VADSBO	DRS 315	[RC]	50 ~ 315W								N.A.	N.A.	1-3 (max 7)	93%~3%	<2		
VADSBO	DU 250	[RC]	20 ~ 250W							1-3 (max 8)	88%~3%	<4	1-3 (max 5)	83%~3%	<4		
Varilight	HQ3W	[R]	60-400W	2-15	99%~4%		2	84%- 3%		1-3 (max 13)	92%~3%		1-3 (max 9)	99%~3%			
Varilight Vimar	ICT401 M 20148	[RC]	20-400W 500W	2-19	96%~13%	< 4	1 - 2	84%- 3%			N.A.	N.A.		N.A.	N.A.		
Vimar	14153	[R]								1-3	98%~3%		1-3	98%~3%			
Vimar	20160	[RC]									N.A.	N.A.	1-3	93%~3%	<4		
Vimar Philips Dynalite	20162	[RL]	40 ~ 300W	2-11	97%~9%	< 5	1 - 3	77%- 3%		1.2	N.A.	N.A.	1.2	N.A.	N.A.		
Philips Dynalite Philips Dynalite	DDLE801 DDTM102 Module		(100W per channel) (460 W per channel)	2-19 2-17	99%~3% 97%~3%		1 - 5 1 - 5	81%- 3% 79%- 3%		1-3 1-3	95%~3% 98%~3%		1-3 1-3	93%~3% 90%~3%			
p.: Dyname		1		- 17	27.0 370			. 2,0 3,0						10.0 0.0			

### Note

- Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
   #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
- #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems)
  #4b) Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
- #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. Therefor we indicated 3% as minimum lightlevel as lab condition.
- #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor 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 performace of LED products.
- Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaime

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













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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Dimmer Jamp combination not tested	

				LED							D bulb							
				Master LEDbulb 6–40W frosted DimTone				Master ledbulb 3.5–60W frosted DimTone		M	IASTER LEDbulb -75W frosted CR DimTone		MASTER LEDbulbs 15W-100W frosted CRI80 DimTone					
													4					
					U						U			I				
				ng nance	<u>a</u>	<b>b</b>	Dimming Performance	<b>8</b>	<b>D</b>	ng nance	<i>p</i> .	pp.	ng nance	86	<b>D</b>			
Brand	Туре	Туре	Load	Dimming	Dimmir Range	Glowing	Dimmir	Dimming Range	Glowing	Dimming Performar	Dimmin Range	Glowing	Dimming Performan	Dimming Range	Glowing			
Berker  INSTA	286710	[RC]	20 ~ 360 W-Turn	1-3	98%~8%		1-3	94%~7%		1-3	87%~10%		1-3	89%~9%				
Berker  INSTA	283010	[R]	60 ~ 400 W-Turn	1-3	98%~7%		1-3	96%~5%		1-3	93%~10%		1-3	91%~9%				
Bticino	L4407		60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.			
Busch Jaeger  ABB Busch Jaeger  ABB	2200 U-503 2247 U	[R] [RL]	60 ~ 400 W-Turn 20 ~ 500 W-Turn	1 -3 1 -3	97%~19% 99%~3%		1 -3 1 -3	94%~9% 95%~3%		1-3 1-3	93%~17% 93%~3%		1-3 1-3	91%~22%				
Busch Jaeger  ABB	2247 U	[R]	60 ~ 600 W-Turn	1-3	97%~3%		1-3	95%~3%		1-3	93%~3%		1-3	93%~3%				
Busch Jaeger  ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	1-3	98%~7%		1-3	95%~6%		1-3	93%~10%		1-3	91%~10%				
Busch Jaeger  ABB	6523 U	[LED]	2 ~ 100 VA-LED-Turn	1-3	83%~3%		1-3	89%~3%		1-3	87%~3%		1-3	87%~3%				
Busch Jaeger  ABB	6526 U	[LED]	2 ~ 100 VA-LED-Push (2wire)	1-3	88%~10%		1-3	97%~6%		1-3	98%~10%		1-3	98%~11%				
ELKO  Schneider ELKO  Schneider	SBD200LED (CCTEL10501) SBD315RC (315 GLE )		4 ~ 200W(RC) 4 ~ 400W(RL)	1-3	N.A. 98%~3%	N.A.	2- 3 1-3	93%~8% 94%~2%		1-3	90%~10% 87%~3%		1-3 1-3	89%~10% 84%~3%				
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RC]	420W	1-3	98%~3% N.A.	N.A.	1-3	94%~2% N.A.	N.A.	1-3 1-3	93%~7%		1-3	91%~4%				
Eltako	EVD61NPN-UC	[	400W 3-wire Push Module	1-3	98%~6%		1-3	99%~3%		1-3	97%~5%		1-3	97%~5%				
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)		N.A.	N.A.	2- 3	93%~8%		1-3	90%~10%		1-3	89%~10%				
Feller  Schneider	40300 (SBD315)	[RLC]	300W	1-3	98%~3%		1-3	94%~2%										
Feller  Schneider GIRA	40420 (SBD420) 1176-00/01	[RLC]	420W 50 ~ 420W	1-3	N.A. 99%~19%	N.A.		N.A.	N.A.	1-3	93%~24%		1-3	93%~24%				
GIRA	2390 00/ 100	[LED]	7 ~ 100W –Push (3wire)	1-3	97%~31%		1-3	95%~17%	IV.A.	1-3	90%~3%		1-3	87%~4%				
Hager	EVN 011	[RC]	300VA	1-3	98%~8%		1-3	99%~7%		1-3	97%~6%		1-3	97%~6%				
Hager	EVN 012	[RC]	300W	1-3	98%~12%		1-3	99%~6%		1-3	97%~6%		1-3	97%~6%				
Hager	EVN 004	[RL]	500VA	1-3	99%~13%		1-3	99%~6%		1-3	97%~6%		1-3	97%~6%				
Jung Jung	225 TDE 1271LEDDE	[RC]	20 ~ 525 W-Turn 3 ~ 100W -Push (3wire)	1-3	98%~9% 97%~4%		1 - 3	96%~8%		1-3 1-3	90%~10% 87%~20%		1-3 1-3	89%~9% 89%~29%				
Klik aan Klik uit	AWMD-250	[LED]	3~24W	1 3	N.A.	N.A.	1-3	89%~8%		13	N.A.	N.A.	13	N.A.	N.A.			
Klik aan Klik uit	ACM 300		300W –3-wire Push LED Dimmer	2- 3	96%~8%		1-3	96%~4%			N.A.	N.A.		N.A.	N.A.			
Legrand	774161	[RL]	40 ~ 400 W-Turn		N.A.	N.A.	2 - 3	96%~5%			N.A.	N.A.		N.A.	N.A.			
Legrand	78401	[RLC]	40 ~ 500W	1-3	98%~7%		1-3	97%~4%		1-3	94%~7%		1-3	94%~7%				
Legrand Legrand	67081 67082	[RL]	40 ~ 400 W-Turn 40 ~ 600 W-Turn	3	N.A. 98%~5%	N.A.	2 - 3 2 - 3	97%~5% 97%~5%			N.A.	N.A.		N.A.	N.A.			
Legrand	67083	[RLC]	3~400W		N.A.	N.A.	1 - 2	89%~3%			N.A.	N.A.		N.A.	N.A.			
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2 - 3	99%~6%		1-3	98%~6%		1-3	93%~7%			N.A.	N.A.			
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	99%~3%		1-3	96%~3%		1-3	93%~3%		1-3	91%~3%				
Legrand	L4402N	[R]	60 ~ 500W	2 - 3	97%~13%		2- 3	89%~6%		1-3	86%~17%		1-3	86%~18%				
Merten  Schneider Merten  Schneider	SBD200LED (MEG5134-0000) SBD315RC (MEG5136-0000)	[RC]	4 ~ 200W(RC) 4~400W(RL)	1-3	N.A. 98%~3%	N.A.	2- 3 1-3	93%~8% 94%~2%		1-3 1-3	90%~10% 87%~3%		1-3 1-3	89%~10% 84%~3%				
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1 5	N.A.	N.A.		N.A.	N.A.	1-3	93%~7%		1-3	91%~4%				
MK-Electric	K1535	[R]	65 ~ 450 W-Turn	1-3	99%~6%		1-3	84%~5%		1-3	80%~7%		1-3	82%~9%				
MK-Electric	K1501 WHILV	[R]	60 ~ 500 W-Turn	1-3	97%~6%		1-3	90%~5%		1-3	83%~7%			N.A.	N.A.			
MK-Electric	K4500 WHILV	[RLC]	180W	1 -3 1 -3	96%~7%		1 -3 1 -3	90%~3%		1-3	85%~8%		1-3	85%~8%				
MK-Electric NIKO	K4500 WHILV 310-0280X	[RLC]	400W 2~100 VA	1-3	95%~7% 98%~3%		1-3	90%~3% 99%~3%		1-3	90%~9%		1-3	90%~9%				
PEHA	431HAN	[RL]	6~120W [LED] 6~60W	1- 3	98%~21%		1- 3	92%~3%		1-3	87%~3%		1-3	87%~3%				
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)	1-3	83%~3%		1-3	89%~3%		1-3	87%~3%		1-3	87%~3%				
RELCO	RP0977	[LED]	4-100W	1- 3	96%~4%		1- 2	99%~9%										
RELCO Schneider	RM0545 SBD315RC (SBD 315, SDD 315)	[RC]	4-100W 315W	1- 3 1 -3	98%~8% 98%~3%		1- 2 1 -3	95%~4% 94%~2%		1-3	87%~3%		1-3	84%~3%				
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-3	98%~3%		1-3	94%~2%		1-3	87%~3%		1-3	84%~3%				
Schneider	SBD200 (WDE 002299)		4 ~ 400VA–Turn Universal (2wire)		N.A.	N.A.	2- 3	93%~8%		1-3	90%~10%		1-3	89%~10%				
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	98%~3%		1-3	94%~2%		1-3	87%~3%		1-3	84%~3%				
VADSBO	ED 350	[RC]	50 ~ 350W	1 - 3	99%~25%	NI A	1 - 3	94%~8%	bi A	1-3	84%~23%		1-3	84%~23%				
VADSBO VADSBO	DRS 315	[RC]	50 ~ 315W 20 ~ 250W	1 - 3	N.A. 96%~6%	N.A.	1-3	N.A. 90%~3%	N.A.	1-3 1-3	96%~9% 87%~3%		1-3 1-3	96%~9% 87%~3%				
Varilight	HQ3W	[R]	60-400W	1-3	96%~4%		1 - 3	96%~3%		1-3	90%~3%		1-3	91%~4%				
Varilight	ICT401 M	[RC]	20-400W	1 - 3	97%~3%		1 - 3	88%~2%		1-3	89%~3%		1-3	89%~3%				
Vimar	20148	[RL]	500W	1 - 3	97%~5%	<3	1 - 3	96%~4%	<2	1-3	93%~7%		1-3	91%~7%				
Vimar	14153	[R]		2 - 3	98%~3%		1-3	95%~6%	-2	1-3	98%~3%		1-3	98%~3%				
Vimar Vimar	20160	[RC]	40 ~ 300W	2 - 3 1 - 3	95%~3% 98%~7%	<2 <3	1 - 3 1 - 3	96%~3% 95%~9%	<2 <2	1-3 1-3	92%~4% 90%~7%		1-3 1-3	92%~4% 87%~4%				
Philips Dynalite	DDLE801	[]	(100W per channel)	1-3	96%~3%		1-3	93%~3%	-	1-3	90%~3%		1-3	89%~4%				
Philips Dynalite	DDTM102 Module		(460 W per channel)	1 - 3	98%~3%		1 - 3	95%~3%		1-3	90%~3%		1-3	89%~3%				
Note :																		

- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected. #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
- #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems) #4b) Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
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- #8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performace of LED products.
- $Philips\ cannot\ be\ held\ responsible\ for\ inaccuracies\ in\ the\ compatibility\ lists\ due\ to\ technical\ changes\ in\ dimmers$ #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Dimmer Jamp combination not tested	

				LED bulb											
					MASTER LEDbul V-75W frosted C DimTone		MASTER LEDbulbs CorePro LEDbulb 15.5W-100W frosted CRI90 6W-40W DimTone				CorePro LEDbulb 8.5W-60W				
				ig nance	NEW	0.0	ig nance	NEW	مم	ig nance	<u>m</u>	DD.	lg nance	20	bo.
Brand	Туре	Туре	Load	Dimming Performan	Dimmir Range	Glowing	Dimming Performan	Dimming Range	Glowing	Dimming Performar	Dimmir Range	Glowing	Dimming Performa	Dimming Range	Glowing
Berker INSTA	286710	[RC]	20 ~ 360 W-Turn	1-3	90% ~ 8%		1-3	96% ~ 9%		1-3	94%~3%		1-3	95%~3%	
Berker  INSTA Bticino	283010 L4407	[R]	60 ~ 400 W-Turn 60 ~ 250 W	1-3	92% ~ 6%		1-3	96% ~ 9%		1-3	96%~3% N.A.	N.A.	1-3	92%~11% N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 ~ 400 W-Turn	1-3	93% ~ 10%		1-3	97% ~ 13%		1-3	98%~9%	14.7.	1-3	94%~15%	14.74.
Busch Jaeger  ABB	2247 U	[RL]	20 ~ 500 W-Turn	1-3	93% ~ 3%		1-3	97% ~ 3%			N.A.	N.A.	1-3	95%~3%	
Busch Jaeger  ABB	2250 U	[R]	60 ~ 600 W-Turn	1-3	94% ~ 3%		1-3	99% ~ 3%		1-3	99%~3%		1-3	92%~3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	1-3	93% ~ 8%		1-3	95% ~ 9%			98%~5%			92%~4%	
Busch Jaeger  ABB Busch Jaeger  ABB	6523 U 6526 U	[LED]	2 ~ 100 VA-LED-Turn 2 ~ 100 VA-LED-Push (2wire)	1-3	89% ~ 3%		1-3	92% ~ 3%		1-3 1-3	94%~3%		1-3 1-3	94%~3% 92%~19%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	1-3	88% ~ 9%		1-3	91% ~ 9%		3	91%~3%		1-3	91%~7%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	88% ~ 3%		1-3	89% ~ 3%		1-3	93%~3%		1-3	98%~3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	93% ~ 3%		1-3	92% ~ 5%		1-3	91%~3%		1-3	93%~3%	
Eltako	EVD61NPN-UC		400W 3-wire Push Module												
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	1-3 1-3	88% ~ 9%		1-3 1-3	91% ~ 9%		3	91%~3%		1-3	91%~7%	
Feller  Schneider Feller  Schneider	40300 (SBD315) 40420 (SBD420)	[RLC]	420W	1-3	88% ~ 3% 93% ~ 3%		1-3	89% ~ 3% 92% ~ 5%							
GIRA	1176-00/01	[RLC]	50 ~ 420W	, ,				3270 370		1-3	93%~15%		1-3	93%~13%	
GIRA	2390 00/ 100	[LED]	7 ~ 100W –Push (3wire)	1-3	89% ~ 3%		1-3	87% ~ 5%		1-3	94%~3%		1-3	99%~3%	
Hager	EVN 011	[RC]	300VA							1-3	97%~3%		1-3	97%~3%	
Hager	EVN 012	[RC]	300W							1-3	97%~3%		1-3	97%~3%	
Hager	EVN 004 225 TDE	[RL]	500VA 20 ~ 525 W-Turn	1-3	93% ~ 9%		1-3	95% ~ 9%		1-3 1-3	97%~3% 92%~8%		1-3 1-3	97%~3% 93%~7%	
Jung Jung	1271LEDDE	[LED]	3 ~ 100W –Push (3wire)	1-3	89% ~ 3%		1-3	90% ~ 5%		1-3	95%~3%		1-3	93%~7%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W							1-3	84%~12%		1-3	87%~20%	
Klik aan Klik uit	ACM 300		300W –3-wire Push LED Dimmer												
Legrand	774161	[RL]	40 ~ 400 W-Turn	1-3	94% ~ 4%		1-3	86% ~ 8%			N.A.	N.A.		N.A.	N.A.
Legrand	78401 67081	[RLC]	40 ~ 500W							1-3	93%~3%	N. A	1-3	93%~3%	N.A
Legrand Legrand	67082	[RL]	40 ~ 400 W-Turn 40 ~ 600 W-Turn								N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3~400W								N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	93% ~ 3%		1-3	90% ~ 4%			98%~3%			92%~3%	
Legrand	67085 (078406)	[RLC]	8–300 VA –Push LED (3wire)	1-3	97% ~ 3%		1-3	98% ~ 3%			96%~3%			97%~3%	
Legrand Merten  Schneider	L4402N	[R]	60 ~ 500W	1.2	88% ~ 9%		1-3	91% ~ 9%		3	N.A. 91%~3%	N.A.	2-3 1-3	87%~11% 91%~7%	
Merten  Schneider	SBD200LED (MEG5134-0000) SBD315RC (MEG5136-0000)	[RC]	4 ~ 200W(RC) 4~400W(RL)	1-3 1-3	88% ~ 3%		1-3	91% ~ 9% 89% ~ 3%		3 1-3	91%~3%		1-3	98%~3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1-3	93% ~ 3%		1-3	92% ~ 5%		1-3	91%~3%		1-3	93%~3%	
MK-Electric	K1535	[R]	65 ~ 450 W–Turn	1-3	80% ~ 6%		1-3	82% ~ 8%		1-3	82%~3%		1-3	84%~6%	
MK-Electric	K1501 WHILV	[R]	60 ~ 500 W–Turn	1-3	84% ~ 3%		1-3	88% ~ 7%		1-3	89%~3%		1-3	92%~3%	
MK-Electric	K4500 WHILV	[RLC]	180W							1-3	87%~3%		1-3	88%~3%	
MK-Electric NIKO	K4500 WHILV 310-0280X	[RLC]	400W 2~100 VA							1-3 1-3	87%~3% 96%~4%		1-3 1-3	87%~3% 96%~5%	
PEHA	431HAN	[RL]	6~120W [LED] 6~60W							1-3	85%~12%		1-3	89%~27%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)							1-3	94%~3%		1-3	94%~3%	
RELCO	RP0977	[LED]	4-100W	1-3	97% ~ 3%		1-3	94% ~ 12%							
RELCO	RM0545	[LED]	4-100W	1-3	86% ~ 3%		1-3	84% ~ 6%		1.2	029/ 29/		1.2	009/ 39/	
Schneider Schneider	SBD315RC (SBD 315, SDD 315)  SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-3 1-3	88% ~ 3% 88% ~ 3%		1-3 1-3	89% ~ 3% 89% ~ 3%		1-3 1-3	93%~3% 93%~3%		1-3 1-3	98%~3% 98%~3%	
Schneider	SBD200 (WDE 002299)	[,,,,,	4 ~ 400VA-Turn Universal (2wire)	1-3	88% ~ 9%		1-3	91% ~ 9%		3	91%~3%		1-3	91%~7%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	88% ~ 3%		1-3	89% ~ 3%		1-3	93%~3%		1-3	98%~3%	
VADSBO	ED 350	[RC]	50 ~ 350W							1-3	89%~16%		1-3	85%~11%	
VADSBO	DRS 315	[RC]	50 ~ 315W							1-3	92%~3%		1-3	92%~3%	
VADSBO Varilight	DU 250 HQ3W	[RC]	20 ~ 250W 60-400W	1-3	93% ~ 3%		1-3	96% ~ 5%		1-3 1-3	87%~3% 95%~3%		1-3 1-3	83%~3% 95%~3%	
Varilight	ICT401 M	[RC]	20-400W	1-3	3370~ 370		1-3	30%~3%		1-3	3370~370		1-3	3370~370	
Vimar	20148	[RL]	500W	1-3	92% ~ 3%		1-3	96% ~ 7%	<4		N.A.	N.A.	1-3	94%~3%	
Vimar	14153	[R]								1-3	99%~3%		1-3	99%~3%	
Vimar	20160	[RC]									N.A.	N.A.	1-3	92%~3%	
Vimar Philips Dynalite	20162	[RL]	40 ~ 300W	1-3	88% ~ 3%		1-3 1-3	91% ~ 5%	<4	1-3	95%~5%		1-3	88%~3%	
Philips Dynalite Philips Dynalite	DDLE801  DDTM102 Module		(100W per channel) (460 W per channel)	1-3 1-3	86% ~ 3% 87% ~ 3%		1-3	91% ~ 4% 92% ~ 3%	<4 <4	1-3 1-3	92%~3% 93%~3%		1-3 1-3	95%~3% 93%~3%	
Note:	1	1	1												

Note:

- \*\*II) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
  #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
- #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems)
- #4b) Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
- #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. Therefor 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 performace of LED products.
- Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:

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













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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TDD	Diametel and combination not tested	

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Part						CorePro LEDbulbs			LED spot			CorePro LEDbulbs	
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Seed In   March   Ma	Prand	Type	Tuno	Load	Dimmi	Sange	slowi	Dimmi	Sange	Slowi	Dimmi	Jimmi Range	slowi
Math   March   March													
Decomposition   Part   200   Control   Part   Control   Control	Berker  INSTA	283010	[R]	60 ~ 400 W-Turn	1-3	94% ~ 12%		1 - 3	98% ~ 10%			N.A.	N.A.
Mail Journal   Mail Deliver   Mail   September   Mail Deliver	Bticino	L4407		60 ~ 250 W		N.A.	N.A.					N.A.	N.A.
Mon-Augur  Field   Mon-Augur	Busch Jaeger  ABB	2200 U-503	[R]			92% ~ 24%		1 - 3	98% ~ 15%		1-3	94%~25%	
Books   Agen						94% ~ 3%		1 - 3	96% ~ 3%				
Bach Inchinger  186   6314													
Mathematical   Math			-										
MONDER CREATED   MOND			-					1 - 3	97% ~ 5%				
Month			-						05% 0%				
BACHER   B			-										
Peterlianness			-										
Pate			[RLC]		1-3	92%~3%		1-3	99%~4%		1-3	94%~3%	
Peter   Pete			[LED/RC]		1-3	88% ~ 13%		1-3	96% ~ 9%		1-3	90%~13%	
Patter   P													
OMA         230 OO/ 100         ILD         7 - 1000 And Ordered         13 - 100 Sect. No. 1         13 - 100 Sect.			-										
Separation         IMPORT         ICX         3000M         13         978-78         ICX         15         985-48         Personal Control         16         3000M         13         978-78         ICX         15         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-48         13         985-28 </td <td>GIRA</td> <td>1176-00/01</td> <td>[RLC]</td> <td>50 ~ 420W</td> <td>1-3</td> <td>92% ~ 20%</td> <td></td> <td></td> <td></td> <td></td> <td>1-3</td> <td>93%~19%</td> <td></td>	GIRA	1176-00/01	[RLC]	50 ~ 420W	1-3	92% ~ 20%					1-3	93%~19%	
Myder         Myder <th< td=""><td>GIRA</td><td>2390 00/ 100</td><td>[LED]</td><td>7 ~ 100W -Push (3wire)</td><td>1-3</td><td>90% ~ 3%</td><td></td><td>1 - 3</td><td>97% ~ 5%</td><td></td><td>1-3</td><td>91%~3%</td><td></td></th<>	GIRA	2390 00/ 100	[LED]	7 ~ 100W -Push (3wire)	1-3	90% ~ 3%		1 - 3	97% ~ 5%		1-3	91%~3%	
Higher   SPA ORA	Hager	EVN 011	[RC]	300VA	1-3	97% ~ 3%					1-3	96%~4%	
Jone         23 Ticle         RCI         30 - 50 W. Hum         13   50 S. 10 W. S.         1-3   50 S. 10 W. S. <td>Hager</td> <td>EVN 012</td> <td>[RC]</td> <td>300W</td> <td>1-3</td> <td>95% ~ 3%</td> <td></td> <td></td> <td></td> <td></td> <td>1-3</td> <td>95%~4%</td> <td></td>	Hager	EVN 012	[RC]	300W	1-3	95% ~ 3%					1-3	95%~4%	
Part   Charles   Charles	Hager	EVN 004	[RL]	500VA	1-3	97% ~ 5%					1-3	98%~4%	
Manufact   Manufact	Jung	225 TDE	[RC]	20 ~ 525 W–Turn	1-3	90% ~ 10%		1 - 3	98% ~ 9%		1-3	91%~11%	
Marcia Mile			-					1 - 3	98% ~ 4%				
Pagend   Alfel			[LED]		1-3	83% ~ 25%					1-3	85%~23%	
Page			(DL)			NI A	NI A	1 2	00% 0%			N A	NI A
Page and   G7081			-		1_2	_	N.A.	1-3	98% ~ 8%		1-2		N.A.
Signard   67082   Fil.   0 -600 W-Turn   N.A.   N			-		1-5		NΑ				I=3		NΑ
Degrand   67083						_							
Degrand   GPO84						_							
			-		1-3			1-3	96% ~ 3%		1-3		
Degrand   CA402N			-										
Merten   Schneider   SB03ISRC (MEGS138-0000)   [RC]   315W		L4402N	[R]	60 ~ 500W	1-3	85% ~ 17%					1-3	85%~16%	
Metrelic Schneider   SBD420RCR (MEGS138-0000)   [R.C]   20 –420 VA   1-3   92% – 3%   1-3   99% – 4%   1-3   84% – 3%   1-	Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4~400W(RL)	1-3	88% ~ 13%		1 - 3	96% ~ 9%		1-3	90%~13%	
MK-Electric Ki535	Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	88% ~ 3%		1 - 3	97% ~ 3%		1-3	90%~3%	
MK-Electric         KISO1WHILV         [R]         60 - 500 W-Tum         1-3         78% - 8%         1-3         93% - 6%         1-3         88% - 8%           MK-Electric         K4501WHILV         [RLC]         180W         1-3         78% - 8%         1         1-3         88% - 8%           MK-Electric         K4500 WHILV         [RLC]         400W         1-3         78% - 8%         1         1         1-3         88% - 8%           NIKO         310-0280X         [LED]         2-100 VA         1-3         88% - 28%         1         1         1-3         95%-13%           PEHA         431HAN         [RLD]         6-120W [LED] 6-60W         1-3         88% - 28%         1         1         1-3         95%-13%           RELCO         RP0977         [LED]         4-100W         1         82% - 3%         1         1-3         98% - 12%         1-3         90%-3%           Schneider         SB0315RC (SB0 315, SD0 315)         [RC]         315W         1-3         88% - 3%         1-3         95% - 3%         1-3         90%-3%           Schneider         SB0315RC (SB0 315, SD0 315)         [RC]         315W         1-3         88% - 3%         1-3         95% - 9%         1-3 <td>Merten  Schneider</td> <td>SBD420RCRL (MEG5138-0000)</td> <td>[RLC]</td> <td>20 ~ 420 VA</td> <td>1-3</td> <td>92% ~ 3%</td> <td></td> <td>1 - 3</td> <td>99% ~ 4%</td> <td></td> <td>1-3</td> <td>94%~3%</td> <td></td>	Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1-3	92% ~ 3%		1 - 3	99% ~ 4%		1-3	94%~3%	
MK-Electric K4501WHILV [RLC] 400W   1-3 78% - 8%   1-3 88% - 8%	MK-Electric	K1535	[R]	65 ~ 450 W–Turn	1-3	82% ~ 10%		1 - 3	88% ~ 9%		1-3	83%~9%	
MK-Electric K450 WHILV [RLC] 400W 1-3 78% - 8%			[R]	60 ~ 500 W-Turn		78% ~ 8%		1-3	93% ~ 6%				
NIKO   310-0280X   ILED   2-100 VA   1-3   95%-13%   1-3   95%-13%   1-3   95%-13%   1-3   95%-13%   1-3   95%-13%   1-3   88%-28%   1-3   88%-28%   1-3   88%-28%   1-3   88%-28%   1-3   88%-28%   1-3   95%-3%   1-	MK-Electric		[RLC]	180W	1-3	78% ~ 8%					1-3	88%~8%	
PEHA   431HAN   RL													
Philips			-										
RELCO         RP0977         (LED)         4-100W         I - 3         98% - 12%         I - 3         98% - 12%           RELCO         RM0545         (LED)         4-100W         I - 3         94% - 6%         I - 3         94% - 6%         IIII         IIII         IIII         IIII         IIII         IIII         94% - 6%         IIII         IIII         IIII         IIII         IIII         IIII         94% - 6%         IIII         IIII         IIII         IIII         IIII         IIII         94% - 6%         IIII         IIII         IIII         90% - 3%         IIII         IIII													
RELCO         RM0545         [LED]         4-100W         1-3         94%-6%         94%-6%         95					1-3	82% ~ 3%		1 2	00% 13%		1-3	90%~3%	
Schneider         SBD315RC (SBD 315, SDD 315)         [RC]         315W         1-3         88% - 3%         1 - 3         97% - 3%         1-3         90%-3%           Schneider         SBD315RC (ATD315)(CCT011533)         [RC]         315W         1-3         88% - 3%         1 - 3         97% - 3%         1-3         90%-3%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1-3         88% - 13%         1 - 3         97% - 3%         1 - 3         90%-3%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1 - 3         88% - 3%         1 - 3         97% - 3%         1 - 3         90%-3%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1 - 3         88% - 3%         1 - 3         97% - 3%         1 - 3         90%-3%           VADSBO         DB 50         [RC]         50 - 350W         1 - 3         88% - 3%         1 - 3         97% - 3%         1 - 3         89%-3%           VADSBO         DB 250         [RC]         50 - 315W         1 - 3         80% - 3%         1 - 3         94% - 4%         1 - 3         99%-3%           Varilight         HQ3W         [R]         60 - 400W         1 - 3         94% - 7%													
Schneider   SBD315RC (ATD315)(CCT011533)   [RC]   315W   1-3   88% - 3%   1-3   97% - 3%   1-3   90% - 3%			-		1_3	88% 3%					1_3	90%_3%	
Schneider         SBD200 (WDE 002299)         4 – 400VA-Turn Universal (2wire)         1-3         88% -13%         1-3         96% - 9%         1-3         90%-13%           Schneider         SBD31SRC (SBD 315)         [RC]         315W         1-3         88% - 3%         1-3         97% - 3%         1-3         90%-3%           VADSBO         ED 350         [RC]         50 - 350W         1-3         85% - 17%         1-3         97% - 3%         1-3         91% - 6%           VADSBO         DRS 315         [RC]         50 - 315W         1-3         90% - 7%         1-3         91% - 6%           VADSBO         DU 250         [RC]         20 - 250W         1-3         80% - 3%         1-3         94% - 4%         1-3         80%-3%           Varilight         HQ3W         [R]         60 - 400W         1-3         94% - 3%         1-3         94% - 4%         1-3         93%-3%           Virinar         20148         [RL]         500W         1-3         94% - 7%         1-3         94% - 6%           Virinar         14153         [R]         500W         1-3         97% - 3%         1-3         95% - 6%         -2         1-3         99%-3%           Virinar         20160 </td <td></td>													
Schneider         SBD315RC (SBD 315)         [RC]         315W         1-3         88% - 3%         1 - 3         97% - 3%         1-3         90% - 3%           VADSBO         ED 35O         [RC]         50 - 350W         1-3         85% - 17%         1-3         83% - 15%           VADSBO         DRS 315         [RC]         50 - 315W         1-3         90% - 7%         1-3         91% - 6%           VADSBO         DU 250         [RC]         20 - 250W         1-3         80% - 3%         1-3         94% - 4%         1-3         80% - 3%           Varilight         HQ3W         [R]         60 - 400W         1-3         94% - 3%         1-3         94% - 4%         1-3         93% - 3%           Vimar         1014B         [RC]         20 - 400W         1-3         94% - 7%         1-3         94% - 6%         1-3         94% - 6%         1-3         94% - 6%         1-3         94% - 6%         1-3         94% - 6%         1-3         94% - 6%         1-3         94% - 6%         1-3         96% - 3%         1-3         95% - 6%         42         1-3         91% - 3%         1-3         91% - 3%         1-3         95% - 5%         42         1-3         91% - 3%         1-3         91%			[ICC]										
VADSBO         ED 350         [RC]         50 – 350W         1-3         85% – 17%         1-3         85% – 17%         1-3         90% – 7%         1-3         90% – 7%         1-3         91% – 6%         1-3         91% – 6%         1-3         91% – 6%         1-3         91% – 6%         1-3         91% – 6%         1-3         91% – 6%         1-3         80% – 3%         1-3         94% – 4%         1-3         80% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         93% – 3%         1-3         94% – 4%         1-3         94% – 6%         1-3         94% – 6%         1-3         94% – 6%         1-3         94% – 6%         1-3         94% – 6%         1-3         94% – 6%         1-3         95% – 6%         42         1-3         95% – 3%         1-3         95% – 5%         42         1-3         95% – 3%         1-3         95% – 5%         42         1-3         95% – 3% </td <td></td> <td></td> <td>[RC]</td> <td></td>			[RC]										
VADSBO         DRS 315         [RC]         50 ~ 315W         1-3         90% ~ 7%         1-3         90% ~ 7%           VADSBO         DU 250         [RC]         20 ~ 250W         1-3         80% ~ 3%         1-3         80% ~ 3%           Varilight         HQ3W         [R]         60 ~ 400W         1-3         94% ~ 3%         1 - 3         94% ~ 4%         1-3         93% ~ 3%           Varilight         ICT401 M         [RC]         20 ~ 400W         1-3         94% ~ 7%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         94% ~ 6%         1-3         95% ~ 6%         2         1-3         91% ~ 3%         1-3         95% ~ 6%         2         1-3         91% ~ 3%         1-3         95% ~ 5%         2         1-3				50 ~ 350W									
VADSBO         DU 250         [RC]         20~250W         1-3         80%~3%         1-3         94%~4%         1-3         80%~3%           Varilight         HQ3W         [R]         60~400W         1-3         94%~3%         1-3         94%~4%         1-3         93%~3%           Varilight         ICT401 M         [RC]         20~400W													
Varilight         ICT401 M         [RC]         20-400W         ICT401 M         ICT401 M <th< td=""><td>VADSBO</td><td>DU 250</td><td></td><td>20 ~ 250W</td><td>1-3</td><td>80% ~ 3%</td><td></td><td></td><td></td><td></td><td>1-3</td><td>80%~3%</td><td></td></th<>	VADSBO	DU 250		20 ~ 250W	1-3	80% ~ 3%					1-3	80%~3%	
Vimar         20148         [RL]         500W         1-3         94%-7%         Image: Control of the contro	Varilight	HQ3W		60-400W	1-3	94% ~ 3%		1 - 3	94% ~ 4%		1-3	93%~3%	
Vimar         14153         [R]         1-3         97% - 3%         1-3         98%-3%           Vimar         20160         [RC]         1-3         90% - 3%         1-3         95% - 6%         2         1-3         91%-3%           Vimar         20162         [RL]         40 ~ 300W         1-3         88% - 3%         1-3         95% - 5%         2         1-3         91%-3%           Philips Dynalite         DDLE801         (100W per channel)         1-3         92% - 3%         1-3         95% - 3%         1-3         95%-3%	Varilight	ICT401 M	[RC]	20-400W									
Vimar     20160     [RC]     1-3     90% - 3%     1-3     95% - 6%     <2     1-3     91%-3%       Vimar     20162     [RL]     40 ~ 300W     1-3     88% - 3%     1-3     95% - 5%     <2	Vimar	20148		500W	1-3	94% ~ 7%					1-3	94%~6%	
Vimar     20162     [RL]     40~300W     1-3     88%~3%     1-3     95%~5%     2     1-3     91%~3%       Philips Dynalite     DDLE801     (100W per channel)     1-3     92%~3%     1-3     95%~3%     1-3     95%~3%			-			97% ~ 3%							
Philips Dynalite         DDLE801         (100W per channel)         1-3         92% ~ 3%         1 - 3         95% ~ 3%         1-3         95%~3%													
			[RL]							<2			
Philips Dynalite   DDTMT02 Module   (460 W per channel) 1-3 92% ~ 3% 1 - 3 96% ~ 3% 1-3 96% ~ 3%													
	Philips Dynalite	ועט Mi02 Module		(460 W per channel)	1-3	92% ~ 3%		1 - 3	96% ~ 3%		1-3	96%~3%	

### Note

- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.
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- #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips
	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Dimmer Jamp combination not tested	

LED Classic filament D 7.5 - 48W A60 Gold / D 5.5 - 40W A60 C G93 clear 60W / G120 gold dim 50W 8 - 50W A60 gold / 5.5 - 40W ST64 CL ST64 clear dim 60W D 8 -60W A60 CL / DT 5.5 -40W A60 CL DT 8 -60W A60 CL / DT 8 - 60W ST6 50W ST64 gold / 8 - 60W ST64 CL ST64 gold dim 50W ST64 gold dim 55W Туре Type Load Brand Berker | INSTA 286710 [RC] 20 ~ 360 W-Turn 98%~3% 93%~3% 93%~3% 283010 60 ~ 400 W-Turn Berker | INSTA [R] N.A. L4407 60 ~ 250 W N.A. Bticino N.A. N.A. Busch Jaeger |ABB 2200 U-503 [R] 60 ~ 400 W-Turn 97%~3% 97%~3% [RL] 99% ~ 3% 97%~3% 96%~3% 96%~3% Busch Jaeger | ABB 2250 U [R] 60 ~ 600 W-Turn Busch Jaeger |ABB 6513 U-102 40 ~ 420 W-Turn 99% ~ 3% 99%~3% 95%~3% 95%~3% Busch Jaeger |ABB [LED] 97% ~ 3% 2~100 VA-LED-Push (2wire) 93%~3% 95%~3% 95%~3% Busch Jaeger | ABB 6526 U [LED] ELKO| Schneider SBD200LED (CCTEL10501) [LED/RC] 4 ~ 200W(RC) 4 ~ 400W(RL) 99% ~ 3% 99%~3% 94%~6% 94%~6% ELKO| Schneider SBD315RC (315 GLE ) 315W [RC] FLKOl Schneider SBD420RCRL (CCTEL13011) [RLC] 420W N.A. N.A. 99%~3% 99%~3% EVD61NPN-UC 400W 3-wire Push Module 91%~3% 99%~3% 99%~3% Eltako 4 ~ 200W(RC) 4 ~ 400W(RL) Feller| Schneider 40200 (SBD200LED CCTCH10601) [LED/RC] 94%~6% Feller | Schneider 40300 (SBD315) 300W 99% ~ 3% 98%~3% 40420 (SBD420) Feller| Schneider **GIRA** 1176-00/01 [RLC] 50 ~ 420W 97% ~ 3% GIRA 2390 00/ 100 [LED] 97% ~ 3% 96%~3% 96%~3% EVN 011 [RC] 300VA Hagei Hage EVN 012 [RC] 300W 97% ~ 3% 92%~3% 98%~3% 98%~3% EVN 004 98%~4% Hage [RL] 98% ~ 3% 225 TDE 20 ~ 525 W-Turn 98%~3% 93%~6% 93%~6% [RC] Jung Jung 1271LEDDE [LED] 3 ~ 100W -Push (3wire) 99% ~ 3% 97%~3% 95%~10% Klik aan Klik uit AWMD-250 [LED] N.A. N.A. 92%~3% Klik aan Klik uit ACM 300 300W -3-wire Push LED Dimmer 80%~3% 80%~3% Legrand 774161 40 ~ 400 W-Turn N.A. N.A. 98%~3% N.A. N.A. N.A. Legrand 78401 [RLC] N.A. N.A. Legrand 67081 [RL] 40 ~ 400 W-Turn N.A. N.A. N.A. 67082 40 ~ 600 W-Turn N.A. N.A. N.A. Legrand 67083 [RLC] 3 ~ 400W Legrand Legrand 67084 [RLC] 8-300 VA -Push LED (3wire) 99% ~ 3% 97%~3% 95%~3% 95%~3% 67085 (078406) 8-300 VA -Push LED (3wire) 97%~3% 98%~3% 98%~3% Legrand 60 ~ 500W N.A. N.A. L4402N Legrand [R] Mertenl Schneider SBD200LED (MEG5134-0000) [LED/RC] 4~200W(RC) 4~400W(RL) 99%~3% 94%~6% 94%~6% SBD315RC (MEG5136-0000) 83%~3% 83%~3% Merten| Schneider SBD420RCRL (MEG5138-0000) 20 ~ 420 VA N.A. N.A. N.A. Merten| Schneider [RLC] MK-Electric K1535 65 ~ 450 W-Turn MK-Electric 60 ~ 500 W-Turn MK-Electric K4501 WHILV [RLC] 180W N.A. N.A. 98%~3% 91%~9% 91%~9% MK-Electric K4500 WHILV [RLC] 400W N.A. N.A. 92%~3% 91%~9% 431HAN 6~120W [LED] 6~60W 97% ~ 3% PEHA [RL] 97%~3% 87%~3% 87%~3% 2 ~ 100 VA-LED-Push (3wire) Philips UID8670 4-100W 98%~3% RELCO RP0977 [LED] **RELCO** RM0545 [LED] 4-100W 99% ~ 3% 92%~3% SBD315RC (SBD 315, SDD 315) [RC] 83%~3% SBD315RC (ATD315)(CCT011533) 99% ~ 3% 98%~3% 315W 83%~3% Schneide [RC] 4 ~ 400VA-Turn Universal (2wire) Schneider SBD200 (WDE 002299) 99% ~ 3% 99%~3% 94%~6% 94%~6% SBD315RC (SBD 315) VADSBO **DRS 315** 50 ~ 315W N.A. 93%~3% 93%~3% Varilight HQ3W [R] 60-400W 97%~3% Varilight ICT401 M [RC] 20-400W 88% ~ 3% 75%~3% 87%~3% 87%~3% [RL] Vimar 14153 [R] N.A. N.A. 89%~3% 98%~3% 98%~3% 20160 [RC] 91%~3% 92%~3% 92%~3% 20162 Vimar [RL] Philips Dynalite DDLE801 (100W per channel) 87% ~ 3% 91%~3% 89%~3% 89%~3% DDTM102 Module 91%~3%

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www.lighting.philips.com/main/products/masterled www.lighting.philips.com/main/products/coreproledlamps





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### 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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips		
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N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults		

Section   Control   Cont			LED consider (house,														
Part					Cla	essic filament lar	mns	Classi	c filament I ED I			c filament I FD I	amns	Classic filament LED Lamns			
Part					6.5 - 2 6.5 - 3	25W Giant G200 25W Giant A160	smoky smoky	40W 40W	E27 G200 GOLD E27 A160 GOLD	DIM							
Mine																	
Mine					7		T	4	4	Ÿ				Ī			
Marie   Mari						NEW											
Marie   Mari					g nance	po	bo	g lance	po	bo	g nance	po	ba	g lance	po	bo	
Marie   Mari		I_	1_	1	immin erform	immin ange	lowing	immin	immin ange	lowing	immin erforn	immin ange	lowing	immin erforn	immin ange	lowing	
Second   Part   Second   Part   Second   Part   Second							U			U			U			U	
March Angeny ARD   2000-1-2001   R    0 - 4000 Name   13   345-75   13   95-75   13   95-75   13   95-75   15   95-75			-														
Books agen   Books   Part   Books   Part   Books   Part   Books   Part   Books agen   Part   Books agen   Part	Bticino	L4407		60 ~ 250 W								N.A.	N.A.	2-3	82% ~ 3%		
Mach Manger   Mach   Mach Manger   Mach	Busch Jaeger  ABB	2200 U-503	[R]	60 ~ 400 W–Turn	1-3	93% ~ 13%		1–3	97%~13%		1-3	99% ~ 7%		1-3	99% ~ 8%		
Ministrage   Min						92% ~ 3%			92%~3%								
Math shape   Mat																	
Mathematical   Math			-														
Month			-		1-3	90% ~ 8%		1-3	84%~10%								
Miller   M					1-3	92% ~ 6%		1–3	91%~16%		1 3		N.A.				
BASIN   BASI											2-3						
Part	ELKO  Schneider	SBD420RCRL (CCTEL13011)		420W	2-3	95% ~ 5%		3	94%~17%			N.A.	N.A.		N.A.	N.A.	
Mate	Eltako	EVD61NPN-UC		400W 3-wire Push Module							1-3	989 ~ 3%		1-3	99% ~ 3%		
Part	Feller  Schneider		[LED/RC]		1-3	92% ~ 6%							N.A.		99% ~ 3%		
GAM         15 - 2001         LI         5 - 0.000 Amount         15 - 0.0000 Amount         15 - 0.000 Amount         15 - 0.000 Amount         15 - 0.000 Amount         15 - 0.0000 Amount         15 - 0.			-								2-3			2-3			
Column   C			-		2-3	95% ~ 5%					1.2		N.A.	1.2		N.A.	
Mage   Month   Mig   30004   16			-		1_3	89% ~ 3%		1_3	83%4%								
Magne			-		13	0370 - 370		1-3	0370-470								
Ame         123 TOPE         CI         30 - 50 W-Tunn         13         98 - 75 W-Tunn         13         99 - 75 W-Tunn         14         14 W-Tunn			-														
	Hager	EVN 004	[RL]	500VA							1-3	99% ~ 3%		1-3	99% ~ 3%		
Man	Jung	225 TDE	[RC]	20 ~ 525 W–Turn	1-3	92% ~ 7%		1–3	89%~17%		1-3	99% ~ 3%		1-3	99% ~ 3%		
Make Milk Wilson   Make Milk	Jung	1271LEDDE	[LED]		1-3	88% ~ 3%		1–3	83%~4%		1-3	99% ~ 3%		1-3	99% ~ 3%		
Marcia   M			[LED]										N.A.				
Pagend   P			(0.1)			N A	AL A	2	050/ 00/		2-3		NI A				
Legand   G7081						N.A.	N.A.	3	95%~9%		1-3		N.A.				
Legand   G7082   Jil.   Jil.   G80 - 500 W-Turn   Jil.   G80   Jil.			-								1-3	90%~3%		1-3	3776~376		
Degrand   GPORE   GP																	
Egrand   G7086 (7784060)   REC   G709400   REC   G709400   REC   G70940   G709400   G70940   G70940   G70940   G70940   G70940   G70940   G709400   G70940   G70940   G70940   G70940   G70940   G70940   G709400   G70940   G709400   G70940   G70940   G70940   G70940   G709	Legrand	67083	[RLC]	3 ~ 400W							1-3	98% ~ 3%		1-3	97% ~ 3%		
Legrand   L402h	Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	94% ~ 3%		2-3	92%~8%		1-3	98% ~ 4%		2-3	99% ~ 3%		
Merten   Schneider   SB0200LED (MEGS134-0000)   (LED/RC)   4-200W(RC) 4-400W(RL)   1-3   92%-95%   2-3   99%-35%   2-3   99%	Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	97% ~ 3%		1–3	93%~3%		1-3	98% ~ 3%		1-3	98% ~ 3%		
Merten  Schneider   SBD31SRC (MEGS13G-0000)   RC    315W   13   90% - 3%   2-3   99% - 3%   10   10   10   10   10   10   10   1											2-3						
Meterlest   Mete											2.2		N.A.				
MK-Electric         KIS35         [R]         65 - 450 W-Turn         2-3         81% - 5%         1         65%-12%         2-3         92% - 3%         1-3         92% - 3%         1-3         92% - 3%         1-3         99% - 3%											2-3		N A	2-3		N A	
MK-Electric         KISO1WHILV         [R]         60 – 500 W–Turn         2-3         87% – 3%         1-2         84%-8%         10 r3         99% – 3%         1-3         99% – 3%           MK-Electric         K4500 WHILV         [RLC]         400W         -								1	68%~12%		2-3		N.A.	2-3		N.A.	
MK-Electric K4501 WHILV [RLC] 180W								1–2									
NIKO 310-0280X																	
PEHA   A3IHAN   RL	MK-Electric	K4500 WHILV	[RLC]	400W							1-3	98% ~ 3%		1-3	98% ~ 3%		
Philips   UID8670   LED   2-100 VA-LED-Push (3wire)   LED   4-100W   1-3   96% - 16%   1-3   91% - 23%   1-3   99% - 3%   1	NIKO			2 ~ 100 VA							1-3	98% ~ 3%		1-3	98% ~ 3%		
RELCO RP0977											1-3	97% ~ 3%		1-3	98% ~ 3%		
RELCO RM0545 [LED] 4-100W 1-3 90% - 3% 1-3 87%-7% 1-3 99% - 3% 1-3 99% - 3% 1-3 99% - 3% 5 1-3 9			-			0.004 4.004			0101 0001						0001 001		
Schneider         SBD315RC (SBD 315, SDD 315)         [RC]         315W         1-3         90% - 3%         2-3         99% - 3%         2-3         99% - 3%           Schneider         SBD315RC (ATD315)(CCT011533)         [RC]         315W         1-3         90% - 3%         1-3         90% - 3%         2-3         99% - 3%         2-3         99% - 3%           Schneider         SBD315RC (SBD 315)         [RC]         315W         1-3         90% - 3%         1-3         90% - 3%         1-3         99% - 3%         2-3         99% - 3%         1-3         99% - 3%         2-3         99% - 3%         1-3         99% - 3%         1-3         99% - 3%         1-3         99% - 3%			-														
Schneider   SBD31SRC (ATD315)(CCT011533)   [RC]   315W   1-3   99% - 3%								1-5	0/70~/70								
Schneider       SBD200 (WDE 002299)       4 – 400VA–Turn Universal (2wire)       1-3       92% – 6%       N.A.       N.A.       N.A.       1-3       99% – 3%         Schneider       SBD3ISRC (SBD 315)       [RC]       315W       1-3       90% – 3%       2-3       99% – 3%       2-3       99% – 3%         VADSBO       ED 350       [RC]       50 – 350W       1-3       90% – 3%       1-3       98% – 3%       1-3       97% – 3%         VADSBO       DN 250       [RC]       20 – 250W       1-3       92% – 3%       1-3       99% – 3%       1-3       91% – 3%         Varilight       HQ3W       [R]       60 – 400W       2-3       92% – 3%       1-3       89% – 5%       2-3       98% – 3%       1-3       91% – 3%         Vimar       20148       [RC]       500W       1 or 3       92% – 3%       1-3       94% – 8%       1-3       99% – 3%       < 2       2-3       99% – 3%       < 2         Vimar       20148       [R]       500W       1 or 3       92% – 3%       1-3       94% – 8%       1-3       99% – 3%       < 2       2-3       99% – 3%       < 2         Vimar       20160       [RC]       4       1 or 3       90% – 4%																	
VADSBO         ED 350         [RC]         50 ~ 350W         1-3         98% ~ 3%         1-3         97% ~ 3%           VADSBO         DRS 315         [RC]         50 ~ 315W         3         98% ~ 3%         N.A.         N.A. <t< td=""><td>Schneider</td><td>SBD200 (WDE 002299)</td><td></td><td>4 ~ 400VA-Turn Universal (2wire)</td><td>1-3</td><td>92% ~ 6%</td><td></td><td></td><td></td><td></td><td></td><td>N.A.</td><td>N.A.</td><td>1-3</td><td>99% ~ 3%</td><td></td></t<>	Schneider	SBD200 (WDE 002299)		4 ~ 400VA-Turn Universal (2wire)	1-3	92% ~ 6%						N.A.	N.A.	1-3	99% ~ 3%		
VADSBO         DRS 315         [RC]         50 – 315W         3         98% – 3%         N.A.	Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	90% ~ 3%					2-3	99% ~ 3%		2-3	99% ~ 3%		
VADSBO         DU 250         [RC]         20 – 250W         1-3         91% – 3%         1-3         91% – 3%           Varilight         HQ3W         [R]         60-400W         2-3         92% – 3%         1-3         89%–5%         2-3         98% – 3%         2-3         92% – 3%           Varilight         ICT401 M         [RC]         20-400W         10 r 3         92% – 3%         1-3         94%–8%         1-3         99% – 3%         1-3         93% – 3%         1-3         99% – 3%         2 -3         99% – 3%         1 -3         99% – 3%         1 -3         99% – 3%         1 -3         99% – 3%         1 -3         99%														1-3			
Varilight         HQ3W         [R]         60-400W         2-3         92% - 3%         1-3         89%-5%         2-3         98% - 3%         2-3         92% - 3%           Varilight         ICT401 M         [RC]         20-400W         ICT401 M         2-3         87% - 3%         1-3         93% - 3%         1-3         93% - 3%         1-3         93% - 3%         1-3         99% - 3%         2-3         99% - 3%         1-3         98% - 3%         1-3         99% - 3%         1-3         99% - 3%         1-3         99% - 3%         1-3         99% - 3%         1-3         99% - 3%         2-3         1-3         99%																N.A.	
Varilight         ICT401 M         [RC]         20-400W         ICT401 M         2-3         87% - 3%         1-3         93% - 3%           Vimar         20148         [RL]         500W         1 or 3         92% - 3%         1-3         94%-8%         1-3         99% - 3%         <2						030/ 50/		4.0	000/ 50/								
Vimar         20148         [RL]         500W         1 or 3         92% – 3%         1 – 3         94% – 8%         1 – 3         99% – 3%         < 2         2 – 3         99% – 3%         < 2           Vimar         14153         [R]         Image: 1 mode of the control of t					2-3	92% ~ 3%		1–3	89%~5%								
Vimar         14153         [R]         Secondary         1-3         98% - 3%         1-3         98% - 3%           Vimar         20160         [RC]         Secondary         Secondary         1-3         99% - 3%         1-3         89% - 3%         1-3         89% - 3%         1-3         89% - 3%         1-3         89% - 3%         1-3         89% - 3%         1-3         89% - 3%         1-					1 or 3	92% ~ 3%		1–3	94%~8%				< 2			< 2	
Vimar         20160         [RC]         Image: Control of the property of t						22.0 370			2 3/0								
Philips Dynalite         DDLE801         (100W per channel)         1-3         88% – 3%         1-3         89%–3%         N.A.         N.A.         2-3         85% – 3%																	
	Vimar	20162	[RL]	40 ~ 300W	1-3	90% ~ 4%		1–3	93%~5%		1-3	99% ~ 3%	< 2	1-3	99% ~ 3%		
Philips Dynalite         DDTM102 Module         (460 W per channel)         1-3         89% - 3%         1-3         86% - 3%         2-3         85% - 3%													N.A.				
	Philips Dynalite	DDTM102 Module		(460 W per channel)	1-3	89% ~ 3%		1–3	86%~3%		1-3	86% ~ 3%		2-3	85% ~ 3%		

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x-y	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range	This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are			
	Unexpected performance behavior, not in line with good dimming perception				
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might conta faults			

				LEDcandle/luster											
				Classic fi	Classic filament LED lamps DimTone 5.5 - 40W A60 8.5 - 60W A60 8.5 - 60W ST64					LED candles a DimTone 4-25W	nd lusters	MASTER LED candles and lusters DimTone 6-40W			
				(											
				ance	NEW		ance	NEW		9			ance		
Brand Berker  INSTA	<b>Type</b> 286710	Type [RC]	<b>Load</b> 20 ~ 360 W-Turn	Dimming Performan	82.~ %28 Range	Glowing	Dimming Performance	Naming Range 828	Glowing	Performan	See Pimming Range	Glowing	Dimming Performan	See Pimming 82-826 Range	Glowing
Berker  INSTA	283010	[R]	60 ~ 400 W-Turn	1-3	90% ~ 3%		1-3	98% ~ 14%		2-18	89%~3%		2-12	89%~3%	
Bticino	L4407		60 ~ 250 W		N.A.	N.A.					N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 ~ 400 W-Turn	1-3	93% ~ 3%		1-3	97% ~ 7%		2-20	92%~3%		2-13	92%~3%	
Busch Jaeger  ABB Busch Jaeger  ABB	2247 U 2250 U	[RL]	20 ~ 500 W-Turn 60 ~ 600 W-Turn	1-3 1-3	90% ~ 3% 92% ~ 3%		1 -3 1 -3	98% ~ 3% 98% ~ 15%		2-25 2-30	91%~3% 88%~3%		2-17 2-20	91%~3% 93%~3%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	1-3	92% ~ 3%		1-3	96% ~ 13%		2-30	94%~3%		2-20	93%~3%	
Busch Jaeger  ABB	6523 U	[LED]	2 ~ 100 VA-LED-Turn	1-3	86% ~ 3%		1-3	94% ~ 19%		2-20	84%~3%		2-17	83%~3%	
Busch Jaeger  ABB	6526 U	[LED]	2 ~ 100 VA-LED-Push (2wire)	1-3	91% ~ 4%					2-20	88%~7%	<4	2-17	88%~5%	٠6
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)	1-3	88% ~ 3%		1-3	90% ~ 15%		2-20	95%~3%		2-13	92%~3%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	93% ~ 3%		1-3	90% ~ 3%		2-15	88%~3%		2-11	87%~0%	
ELKO  Schneider Eltako	SBD420RCRL (CCTEL13011)  EVD61NPN-UC	[RLC]	420W 400W 3-wire Push Module	1-3	89% ~ 3%		1 -3	93% ~ 15%		2-20	91%~3%		2-14	90%~3%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4~200W(RC) 4~400W(RL)	1-3	88% ~ 3%		1-3	90% ~ 15%		2-20	95%~3%		2-13	92%~3%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	1-3	93% ~ 3%		1-3	90% ~ 3%							
Feller  Schneider	40420 (SBD420)	[RLC]	420W	1-3	89% ~ 3%		1-3	93% ~ 15%							
GIRA	1176-00/01	[RLC]	50 ~ 420W	1-3	93% ~ 5%		1.2	079/ 59/		2-20	95%~7%	<7	2-14	95%~5%	< 9
GIRA Hager	2390 00/ 100 EVN 011	[RC]	7 ~ 100W -Push (3wire)	1-3 1-3	86% ~ 3% 98% ~ 3%		1-3	97%5%		2-25	94%~3% 95%~4%	<7	2-17 2-10	92%~3% 96%~3%	< 10
Hager	EVN 012	[RC]	300W	1-3	98% ~ 3%						95%~4%	· <7	2-10	95%~3%	< 10
Hager	EVN 004	[RL]	500VA	1-3	98% ~ 3%						95%~7%	<7	2-17	96%~4%	< 11
Jung	225 TDE	[RC]	20 ~ 525 W–Turn	1-3	93% ~ 3%		1-3	94% ~ 16%		2-26	89%~3%		2-18	89%~3%	
Jung Klik aan Klik uit	1271LEDDE	[LED]	3 ~ 100W -Push (3wire) 3 ~ 24W	1-3	87% ~ 7%		1-3	97%3%		2-25	93%~4%	-C	2-17	92%~3%	.5
Klik aan Klik uit	AWMD-250 ACM 300	[LED]	300W –3-wire Push LED Dimmer	1-3	82% ~ 4%						78%~7%	<6	2-4	77%~4%	< 5
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	96% ~ 3%					2-20	95%~4%	<7	2-13	93%~4%	< 9
Legrand	67081	[RL]	40 ~ 400 W-Turn		N.A.	N.A.					N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 ~ 600 W-Turn		N.A.	N.A.					N.A.	N.A.		N.A.	N.A.
Legrand Legrand	67083 67084	[RLC]	3 ~ 400W 8-300 VA -Push LED (3wire)	1-3	N.A. 95% ~ 3%	N.A.	1-3	98% ~ 4%			N.A. N.A.	N.A.		N.A. N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8–300 VA –Push LED (3wire)	1-3	88% ~ 17%		1-3	94% ~ 3%		2-15	94%~3%	1475	2-10	91%~3%	Nich
Legrand	L4402N	[R]	60 ~ 500W		N.A.	N.A.					79%~4%		8-17	79%~4%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4~400W(RL)	1-3	88% ~ 3%		1-3	90% ~ 15%		2-20	95%~3%		2-13	92%~3%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	93% ~ 3%		1-3	90% ~ 3%		2-15	88%~3%		2-11	87%~3%	
Merten  Schneider MK-Electric	SBD420RCRL (MEG5138-0000) K1535	[RLC]	20 ~ 420 VA 65 ~ 450 W-Turn	1-3	89% ~ 3% N.A.	N.A.	1 -3 1 -3	93% ~ 15% 84% ~ 16%		2-20 2-23	91%~3% 79%~3%		2-14 2-15	90%~3% 77%~3%	
MK-Electric	K1501 WHILV	[R]	60 ~ 500 W-Turn	1-3	85% ~ 3%		1-3	91% ~ 8%		2-25	88%~3%		2-17	87%~3%	
MK-Electric	K4501 WHILV	[RLC]	180W	1-3	88% ~ 3%						83%~3%		2-7	82%~3%	
MK-Electric	K4500 WHILV	[RLC]	400W	1-3	88% ~ 3%						83%~3%			N.A.	N.A.
NIKO	310-0280X 431HAN	[LED]	2 ~ 100 VA 6 ~ 120W [LED] 6 ~ 60W	1-3 1-3	98% ~ 4%					2-5	96%~5%		2-3 2-4	96%~4% 82%~5%	
PEHA Philips	UID8670	[RL]	2 ~ 100 VA-LED-Push (3wire)	1-3	88% ~ 4% 86% ~ 3%					2-20	82%~7% 84%~3%		2-4	82%~5%	
RELCO	RP0977	[LED]	4-100W				1-3	99% ~ 23%							
RELCO	RM0545	[LED]	4-100W				1-3	83% ~ 6%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	93% ~ 3%		1-3	90% ~ 3%		2-15	88%~3%		2-11	87%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W 4 ~ 400VA-Turn Universal (2wire)	1-3 1-3	93% ~ 3%		1-3	90% ~ 3%		2-15	88%~3%		2-11	87%~3%	
Schneider Schneider	SBD200 (WDE 002299) SBD315RC (SBD 315)	[RC]	315W	1-3	88% ~ 3% 93% ~ 3%		1 -3 1 -3	90% ~ 15% 90% ~ 3%		2-20 2-15	95%~3% 88%~3%		2-13 2-11	92%~3% 87%~3%	
VADSBO	ED 350	[RC]	50 ~ 350W	1-3	91% ~ 5%			22.0 3.0		2-18	88%~7%		2-12	84%~4%	
VADSBO	DRS 315	[RC]	50 ~ 315W		N.A.	N.A.				4-16	89%~4%		5-11	91%~4%	< 12
VADSBO	DU 250	[RC]	20 ~ 250W	1-3	88% ~ 3%	<4				2-13	86%~3%		2-8	79%~3%	< 8
Varilight	HQ3W	[R]	60-400W	1-3	92% ~ 3%		1-3	96% ~ 3%		2-20	91%~3%		2-13	90%~3%	
Varilight Vimar	ICT401 M 20148	[RC]	20-400W 500W		N.A.	N.A.	1-3	97% ~ 8%		6-25	90%~3%	<b>&lt;</b> 6	4-17	92%~3%	<4
Vimar	14153	[R]	33311	1-3	98% ~ 3%	TV.A.	13	3770 - 670		2-20	99%~3%	-0	2-17	96%~3%	< 7
Vimar	20160	[RC]			N.A.	N.A.					89%~3%		2-10	89%~3%	< 11
Vimar	20162	[RL]	40 ~ 300W		N.A.	N.A.	1-3	92% ~ 3%		6-15	92%~3%	<6	4-10	86%~3%	<4
Philips Dynalite	DDLE801		(100W per channel)	1-3	95% ~ 3%		1-2	96% ~ 3%		2-20	89%~3%		2-17	91%~3%	
Philips Dynalite	DDTM102 Module		(460 W per channel)	1-3	98% ~ 3%		1-3	94% ~ 3%		2-20	92%~3%		2-15	91%~3%	
Note:															

### Note

- \*\*II) 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)
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- #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. Therefor 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 performace of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers
- #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:

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













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			
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**LED** spot Classic filament LED lamps MASTER LED candles and lusters Classic filament LED lamps 5 - 32W B35 gold D 2.7 -25W 6-40W 5 - 32W P45 gold 道一丁 Туре Type **Brand** Berker IINSTA 286710 [RC] 20 ~ 360 W-Turn 90%~39 94%- 3% 99% ~ 3% Berker |INSTA 283010 [R] 60 ~ 400 W-Turn 2 - 10 97%- 3% 99% ~ 3% L4407 60 ~ 250 W N.A. Bticino N.A. Busch Jaeger | ABB 2200 U-503 [R] 60 ~ 400 W-Turn 99% ~ 12% 2 - 10 95%- 3% 99% ~ 3% Busch Jaeger | ABB 2250 U 60 ~ 600 W-Turn [R] Busch Jaeger | ABB 6513 U-102 [RC] 40 ~ 420 W-Turn 2-14 91%~3% 3 - 10 97%-3% 99% ~ 3% 2 ~ 100 VA-LED-Turr 88%~3% 99% ~ 3% 2~100 VA-LED-Push (2wire) 2-17 97% ~ 3% Busch Jaeger | ABB 6526 U 99%~3% [LED] ELKOl Schneider SBD200LED (CCTEL10501) [LED/RC] 4 ~ 200W(RC) 4 ~ 400W(RL) 2-13 90%~3% 99% ~ 3% SBD315RC (315 GLE ) [RC] ELKOl Schneider 99% ~ 3% SBD420RCRL (CCTEL13011) 420W [RLC] N.A. Eltako EVD61NPN-UC 400W 3-wire Push Module 99%~3% 96% ~ 3% 40200 (SBD200LED CCTCH10601) Feller| Schneider 2-11 90%~3% 97%- 3% 99% ~ 3% Feller | Schneider 40300 (SBD315) [RLC] 300W Feller | Schneider 40420 (SBD420) 420W N.A. N.A. 99% ~ 3% GIRA 1176-00/01 50 ~ 420W [RLC] 97% ~ 3% **GIRA** 2390 00/ 100 [LED] 7 ~ 100W -Push (3wire) 99% ~ 19% Hager **EVN 011** [RC] 300VA 96% ~ 3% 300W EVN 012 2-10 Hage [RC] 96% ~ 3% Hager EVN 004 [RL] 500VA 2-10 99%~3% 225 TDE 20 ~ 525 W-Turn 2-10 89%~3% 99% ~ 3% Jung 1271LEDDE [LED] 3 ~ 100W -Push (3wire) 2-15 90%~3% 2 - 10 99% ~ 3% Jung Klik aan Klik uit AWMD-250 [LED] 3 ~ 24W 88%~3% 93% ~ 4% Klik aan Klik uit ACM 300 300W -3-wire Push LED Dimmer 2-10 96% ~ 3% 774161 Legrand [RL] 40 ~ 400 W-Turn 99% ~ 3% Legrand 78401 [RLC] 40 ~ 500W 95% ~ 3% 40 ~ 400 W-Turn 67081 [RL] 99% ~ 3% Legrand 67082 40 ~ 600 W-Turn 99% ~ 3% Legrand [RL] 67083 [RLC] 8-300 VA -Push LED (3wire) Legrand 67084 67085 (078406) 8-300 VA -Push LED (3wire) 94%- 3% 99% ~ 3% Legrand [RLC] 2-10 2 - 10 L4402N 60 ~ 500W 95% ~ 3% Legrand SBD200LED (MEG5134-0000) [LED/RC] 4 ~ 200W(RC) 4~400W(RL) 2-13 90%~3% 99% ~ 3% Merten| Schneider Mertenl Schneider SBD315RC (MEG5136-0000) [RC] 315W 2-11 90%~3% 99% ~ 3% SBD420RCRL (MEG5138-0000) N.A. 20 ~ 420 VA MK-Electric 65 ~ 450 W-Turn 99% ~ 3% K1535 MK-Electric K1501 WHILV [R] 60 ~ 500 W-Turn 80%~3% 2 - 10 97%- 3% 99% ~ 3% MK-Electric K4501 WHILV 180W 84%~3% 96% ~ 3% MK-Electric K4500 WHILV 2-13 [RLC] 400W NIKO 310-0280X [LED] 2 ~ 100 VA 2-3 99%~3% 94% ~ 3% [RL] 99% ~ 3% UID8670 2 ~ 100 VA-LED-Push (3wire) 88%~3% Philips [LED] RELCO RP0977 [LED] 4-100W 2-3 99%~4% 96% ~ 3% RELCO [LED] 5 - 10 97%- 3% SBD315RC (SBD 315, SDD 315) 90%~3% Schneide [RC] 315W 99% ~ 3% Schneide SBD315RC (ATD315)(CCT011533) 90%~3% 97%- 3% 99% ~ 3% SBD200 (WDE 002299) Schneide 4 ~ 400VA–Turn Universal (2wire) 5 - 10 90%~3% 5 - 10 97%- 3% 99% ~ 3% Schneider SBD315RC (SBD 315) 315W VADSBO 50 ~ 350W [RC] 50 ~ 315W **VADSBO DRS 315** VADSBO DU 250 [RC] 20 ~ 250W 2-8 85%~3% 85% ~ 3% 60-400W 2-13 90%~3% 99% ~ 3% Varilight ICT401 M [RC] 20-400W 2-13 90% ~ 3% Varilight 88%~3% Vimar 20148 [RL] 99% ~ 3% 14153 96% ~ 3% [R] 20160 2-17 96% ~ 3% [RC] 96%~3% Vimar Vimar 20162 [RL] 40 ~ 300W 99% ~ 3% Philips Dynalite (100W per channel) 97%- 3% DDTM102 Module 2 - 10 97%- 3% Philips Dynalite (460 W per channel) 95% ~ 3%

### Note

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Recommended dimmer compatibility list for Mains Voltage Lamps

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	Unexpected performance behavior, not in line with good dimming perception	attempted to provide best results, results are
N.A.	Dimmer lamp combination not applicable	generated in lab conditions and might contain faults
TRD	Dimmer Jamp combination not tested	

**LED** spot Corepro LEDlinear MV R7s 118mm D 14W - 100W R7s 118mm D 14 - 120 G9 2.5W - 25W Туре Type **Brand** Berker IINSTA 286710 [RC] 20 ~ 360 W-Turn 3-20 96%~27% 89%~8% 94%~21% Berker INSTA 283010 [R] 60 ~ 400 W-Turn Bticino L4407 60 ~ 250 W N.A. N.A. Busch Jaeger | ABB 2200 U-503 [R] 60 ~ 400 W-Turn 3-20 85%~33% 98%~27% 3-20 96%~3% Busch Jaeger | ABB 2250 U 60 ~ 600 W-Turn 87%~6% [R] 95%~15% Busch Jaeger | ABB 6513 U-102 [RC] 40 ~ 420 W-Turn 3-20 98%~24% 93%~7% 97%~23% 2 ~ 100 VA-LED-Turr [LED] 2~100 VA-LED-Push (2wire) 96%~15% Busch Jaeger | ABB 6526 U 3-20 [LED] 97%~23% ELKO | Schneider SBD200LED (CCTEL10501) [LED/RC] 4 ~ 200W(RC) 4 ~ 400W(RL) 3-20 96%~30% 94%~21% ELKO | Schneider SBD315RC (315 GLE ) [RC] ELKOl Schneider N.A. SBD420RCRL (CCTEL13011) 420W 93%~3% N.A. [RLC] N.A. Eltako EVD61NPN-UC 400W 3-wire Push Module 3-20 99%~15% 97%~7% 40200 (SBD200LED CCTCH10601) Feller| Schneider Feller | Schneider 40300 (SBD315) [RLC] 300W Feller | Schneider 40420 (SBD420) 420W GIRA 1176-00/01 50 ~ 420W [RLC] 3-20 **GIRA** 2390 00/ 100 [LED] 7 ~ 100W -Push (3wire) 3-18 91%~15% 92%~10% Hager EVN 011 [RC] 300VA 3-20 98%~18% 95%~16% 300W EVN 012 3-20 Hage [RC] Hager EVN 004 [RL] 500VA 3-20 99%~28% 99%~18% 225 TDE 20 ~ 525 W-Turn 3-20 94%~23% Jung 1271LEDDE [LED] 3 ~ 100W -Push (3wire) 3-20 94%~3% 93%~9% Jung Klik aan Klik uit AWMD-250 [LED] 3 ~ 24W 3-10 86%~3% 84%~30% Klik aan Klik uit ACM 300 300W -3-wire Push LED Dimmer 33%~3% 92%~10% 774161 Legrand [RL] 40 ~ 400 W-Turn N.A. N.A. N.A. Legrand 78401 [RLC] 40 ~ 500W 97%~39 40 ~ 400 W-Turn Legrand 67081 67082 40 ~ 600 W-Turn N.A. Legrand [RL] N.A. N.A. 67083 [RLC] N.A. 8-300 VA -Push LED (3wire) Legrand 67084 67085 (078406) 8-300 VA -Push LED (3wire) 99%~4% N.A. Legrand [RLC] 3-20 N.A 99%~3% Legrand L4402N 60 ~ 500W N.A. 87%~22% SBD200LED (MEG5134-0000) [LED/RC] 4~200W(RC) 4~400W(RL) 3-20 Merten| Schneider Mertenl Schneider SBD315RC (MEG5136-0000) [RC] 315W 3-20 95%~9% 89%~3% SBD420RCRL (MEG5138-0000) 20 ~ 420 VA MK-Electric 65 ~ 450 W-Turn 3-20 82%~10% K1535 MK-Electric K1501 WHILV [R] 60 ~ 500 W-Turn 3-10 82%~17% 88%~6% 89%~12% MK-Electric K4501 WHILV 180W N.A. 90%~13% MK-Electric K4500 WHILV [RLC] 400W N.A. N.A. NIKO 310-0280X [LED] 2 ~ 100 VA 98%~8% 98%~3% [RL] Philips UID8670 2 ~ 100 VA-LED-Push (3wire) 3-20 92%~3% 88%~3% [LED] RELCO RP0977 [LED] 4-100W RELCO [LED] SBD315RC (SBD 315, SDD 315) Schneide [RC] 315W Schneide SBD315RC (ATD315)(CCT011533) 3-20 95%~9% 89%~3% Schneide SBD200 (WDE 002299) 4 ~ 400VA-Turn Universal (2wire) 3-20 3-20 95%~9% 89%~3% Schneider SBD315RC (SBD 315) 315W VADSBO 50 ~ 350W [RC] **VADSBO DRS 315** 50 ~ 315W N.A. N.A. VADSBO DU 250 [RC] 20 ~ 250W 92%~14% 82%~5% 60-400W 95%~6% Varilight ICT401 M [RC] 20-400W 3-20 Varilight 85%~2% Vimar 20148 [RL] N.A. 95%~12% 14153 96%~3% [R] 20160 [RC] Vimar N.A. 95%~6% 20162 [RL] 40 ~ 300W 94%~15% Philips Dynalite (100W per channel) 3-20 88%~3% DDTM102 Module Philips Dynalite (460 W per channel) 3-20 97%~3% 91%~3% 99%~3%

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- #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 will be >10%, and/or maximum level will be <80% lightlevel
- #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. Therefor 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 performace of LED products.
- Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaime

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













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Data subject to change.

