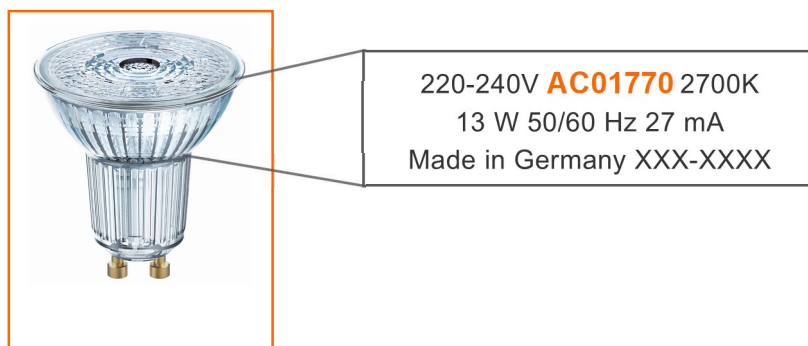


DIMMER COMPATIBILITY PAR20 + PAR30 + PAR38

BASIC INFORMATION:

1. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

The product code describes the lamp type. It contains 7 letters and digits and is starting with "A". Below an example for the product code of the stamp of the lamp:



2. HOW CAN I READ THE FOLLOWING CHARTS?

Legend:
Information about the dimmability of the lamps. Green means good dimmability, yellow means limited dimmability, red means undesired dimmability etc.

List of dimmers tested in laboratory conditions

Legend					SUPERSTAR PAR16 35 36°		SUPERSTAR PAR16 50 36°		SUPERSTAR PAR16 80 36°		SUPERSTAR PAR16 80 120°	
	Good dimmability with indicated number of lamps (dimming range greater than 75%)											
	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)				EAN/Basic Code		EAN/Basic Code		EAN/Basic Code		EAN/Basic Code	
	Undesired dimmability				4058075437676 / AC16509 40582899390 83 / AC16509 4058075458086 / AC16509 4058075437690 / AC16511 40582899390 67 / AC16511		405807512544 / AC16512 40582899390 071 / AC16512 40582899390 165 / AC16514 4058075437173 / AC16514		4058075433663 / AC24603 4058075433564 / AC24603 4058075433661 / AC24605 4058075433540 / AC24605		4058075433687 / AC24606 4058075433526 / AC24606 4058075433700 / AC24606 4058075433502 / AC24606	
	Not tested											
Dimmer					Number of Lamps	Dimming range	Number of Lamps	Dimming range	Number of Lamps	Dimming range	Number of Lamps	Dimming range
Brand	Model	Voltage range	Power	Type								
ABB	STD 50-3	230/50Hz	60-500	L	1-20	99-2%	1-18	97-1%	85-0%	87-0%	85-0%	87-0%
Altenburger	50.3	230/50Hz			1-3	99-0%	1-20	98-0%	92-0%	92-0%	92-0%	92-0%
AURORA	DSP 400	230/50Hz	400	L	1-11	99-0%	1-10	95-0%	89-0%	89-0%	89-0%	89-0%
Berker	2861	230/50Hz	50-420	U	1-10	99-0%	1-20	97-0%	88-0%	88-0%	88-0%	88-0%
Bticino	L/N/NT4411N	230/50Hz			1-9	100-0%	1-14	97-0%	93-0%	92-0%	93-0%	92-0%
Busch-Jaeger	6513 U-102	230/50Hz	420	T	1-20	100-0%	1-20	97-3%				
Busch-Jaeger	6523 U-102	230/50Hz	40-420	T	1-4	100-9%	1-7	97-6%	94-3%	93-3%	94-3%	93-3%
Busch-Jaeger	6526 U	230/50Hz			1-20	99-20%	1-16	98-24%				
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	U	1-4	99-0%	1-9	97-0%	90-0%	90-0%	90-0%	90-0%
Domintell	DimMax 420 SL	230/50Hz	200	L/T	1-16	100-0%	1-13	97-0%	92-0%	91-0%	92-0%	91-0%
ELKO	400GU	230/50Hz			1-11	100-0%	1-12	97-0%	92-3%	90-0%	92-3%	90-0%
ELKO	315GLE	230/50Hz	20-315	T	1-20	100-0%	1-20	98-0%	91-3%	90-0%	91-3%	90-0%
ELKO	600GLE/I	230/50Hz			1-11	99-1%	1-13	98-5%	91-0%	91-0%	91-0%	91-0%
ELKO	600GU	230/50Hz	40-600	U	1-20	99-0%	1-20	98-0%	91-2%	91-2%	91-2%	91-2%

Information about the lamp type

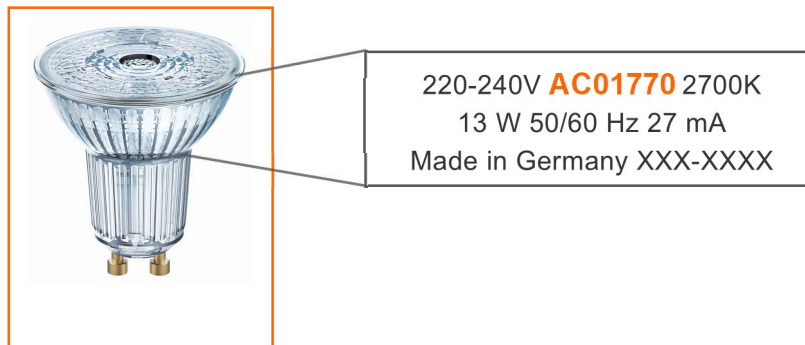
Assessment of the results into categories. Includes the number of lamps and the related dimming range

DIMMER KOMPATIBILITÄT PAR20 + PAR30 + PAR38

BASISINFORMATIONEN:

1. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?

Der Produktcode beschreibt den Lampentyp. Er besteht aus sieben Buchstaben und Ziffern und beginnt mit einem "A". Nachfolgend ein Beispiel eines Produktcodes auf dem Aufdruck der Lampe.



2. WIE LESE ICH DIE FOLGENDEN TABELLEN?

Legende: Angaben zur Dimmbarkeit der Lampen. Grün bedeutet eine gute Dimmbarkeit mit der angegebenen Lampenanzahl, gelb bedeutet eine eingeschränkte Dimmbarkeit, rot bedeutet, dass unerwünschtes Dimmverhalten auftreten kann etc.

Liste der getesteten Dimmer

Legend					SUPERSTAR PAR16 35 36"		SUPERSTAR PAR16 50 36"		SUPERSTAR PAR16 80 36"		SUPERSTAR PAR16 80 120"	
	Good dimmability with indicated number of lamps (dimming range greater than 75%)											
	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)				EAN / Basic Code		EAN / Basic Code		EAN / Basic Code		EAN / Basic Code	
	Undesired dimmability				4058075431676 / AC16509 4052899390133 / AC16509 4058075458086 / AC16509 4058075431690 / AC16511 4052899390157 / AC16511		405807512544 / AC16512 4052899390171 / AC16512 4052899390195 / AC16514 4058075431713 / AC16514		4058075433663 / AC24603 4058075433564 / AC24603 4058075453661 / AC24605 4058075433540 / AC24605		4058075433687 / AC24609 4058075433526 / AC24609 4058075433700 / AC24611 4058075433502 / AC24611	
	Not tested											

Dimmer					Number of Lamps	Dimming range	Number of Lamps	Dimming range	Number of Lamps	Dimming range	Number of Lamps	Dimming range
Brand	Model	Voltage range	Power	Type								
ABB	STD 50-3	230/50Hz	60-500	L	1-20	99-2%	1-18	97-1%	85-0%	87-0%	85-0%	87-0%
Altenburger	50.3	230/50Hz			1-3	99-0%	1-20	98-0%	92-0%	92-0%	92-0%	92-0%
AURORA	DSP 400	230/50Hz	400	L	1-11	99-0%	1-10	95-0%	89-0%	89-0%	89-0%	89-0%
Berker	2861	230/50Hz	50-420	U	1-10	99-0%	1-20	97-0%	88-0%	88-0%	88-0%	88-0%
Bticino	L/N/NT411N	230/50Hz			1-9	100-0%	1-14	97-0%	93-0%	92-0%	93-0%	92-0%
Busch-Jaeger	6513 U-102	230/50Hz	420	T	1-20	100-0%	1-20	97-3%				
Busch-Jaeger	6523 U-102	230/50Hz	40-420	T	1-4	100-9%	1-7	97-6%	94-3%	93-3%	94-3%	93-3%
Busch-Jaeger	6526 U	230/50Hz			1-20	99-20%	1-16	98-24%				
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	U	1-4	99-0%	1-9	97-0%	90-0%	90-0%	90-0%	90-0%
Domintell	DimMax 420 SL	230/50Hz	200	L/T	1-16	100-0%	1-13	97-0%	92-0%	91-0%	92-0%	91-0%
ELKO	400GU	230/50Hz			1-11	100-0%	1-12	97-0%	92-3%	90-0%	92-3%	90-0%
ELKO	315GLE	230/50Hz	20-315	T	1-20	100-0%	1-20	98-0%	91-3%	90-0%	91-3%	90-0%
ELKO	600GLE/I	230/50Hz			1-11	99-1%	1-13	98-5%	91-0%	91-0%	91-0%	91-0%
ELKO	600GU	230/50Hz	40-600	U	1-20	99-0%	1-20	98-0%	91-2%	91-2%	91-2%	91-2%

Angaben zum Lampentyp

Bewertung der Testergebnisse im Ampelsystem. Beinhaltet sowohl die Lampenanzahl als auch den dimmbaren Bereich

DIMMER COMPATIBILITY PAR20 + PAR30 + PAR38

Legend					SUPERSTAR PAR20 50 36°		PARATHOM DIM PAR30 75 36°		PARATHOM DIM PAR38 100 30°	
	Good dimmability with indicated number of lamps (dimming range greater than 75%)									
	Limited dimmability with indicated number of lamps (dimming range smaler than 75%)									
	Undesired dimmability									
Not tested					EAN/ Basic Code		EAN/ Basic Code		EAN/ Basic Code	
					4058075433120 / AC32688		4058075264304 / AC32689		4058075264083 / AC32691	
Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	Model	Voltage range	Power	Type						
ABB	STD 50-3	230/50Hz	60-500	L	100-20%	100-20%	100-20%	100-20%	100-0%	100-6%
Altenburger	50,3	230/50Hz			100-0%	100-0%		100-0%		
AURORA	DSP400	230/50Hz	400	T	100-47%	100-47%	100-0%	100-0%	98-0%	98-0%
Berker	2861	230/50Hz	50-420	U	100-13%	100-13%	100-20%	100-20%		100-6%
Bticino	L/N/NT4411N	230/50Hz			100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
bticino	NT4402N	230/50Hz	500	R						
Busch-Jaeger	6513 U-102	230/50Hz	420	T	100-0%	100-0%		100-10%	100-0%	100-2%
Busch-Jaeger	6523 U-102	230/50Hz	40-420	T	100-47%		100-20%	100-30%		
Busch-Jaeger	2250 U	230/50Hz	60-600	L	80-0%	80-0%	100-0%	100-0%	98-0%	98-0%
Busch-Jaeger	6526 U	230/50Hz								
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
DimMax	420SL	230/50Hz	200	L/T	100-0%	100-0%	100-0%		100-0%	98-0%
DINUY	RE EL1 LE1	230/50Hz	400	LED	100-0%	100-0%	100-0%	100-0%	96-0%	98-0%
ELKO	400GLI	230/50Hz			80-0%		100-0%	100-0%	100-2%	100-0%
ELKO	315GLE	230/50Hz	20-315	T	100-0%	100-0%	93-13%	100-0%	100-0%	100-0%
ELKO	600GLE/I	230/50Hz			100-0%	100-13%	100-0%	100-0%	100-0%	100-4%
ELKO	600GLi	230/50Hz	40-600	U	100-0%	100-0%	100-0%	100-7%	100-0%	100-0%
ELKO	420GLE/I	230/50Hz	40-420	U	100-0%	100-0%	100-0%		100-0%	100-0%
ELKO	1000LRI	230/50Hz			100-0%		100-0%	100-0%	98-0%	98-0%
ELKO	630GLE	230/50Hz	20-630	U	100-0%	100-0%	100-20%	100-0%	63-4%	100-0%
Eltako	EUD61NPN-UC	230/50Hz	5-400	R / L / C	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
Feller	40200.LEDxxx	230/50Hz				100-0%	73-13%	100-0%		100-0%
Feller	40600 RLC	230/50Hz	20-600	U	100-0%	100-13%	100-0%	100-0%	100-0%	100-4%
Feller	40600.RC	230/50Hz			100-0%	100-0%	100-20%	100-0%	63-4%	100-0%
Feller	40600.RL	230/50Hz			100-0%	100-0%	100-0%	100-7%	100-0%	100-0%
Feller	40420.RLC	230/50Hz			100-0%	100-0%	100-0%		100-0%	100-0%
Feller	31000	230/50Hz			100-0%		100-0%	100-0%	98-0%	98-0%

DIMMER COMPATIBILITY PAR20 + PAR30 + PAR38

Legend					SUPERSTAR PAR20 50 36°		PARATHOM DIM PAR30 75 36°		PARATHOM DIM PAR38 100 30°	
	Good dimmability with indicated number of lamps (dimming range greater than 75%)									
	Limited dimmability with indicated number of lamps (dimming range smaler than 75%)									
	Undesired dimmability									
Not tested					EAN / Basic Code		EAN/ Basic Code		EAN/ Basic Code	
					4058075433120 / AC32688		4058075264304 / AC32689		4058075264083 / AC32691	
Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	Model	Voltage range	Power	Type						
Gira	226200	230/50Hz			87-0%	87-0%	100-0%	100-0%	100-0%	100-0%
Gira	030700	230/50Hz	20-525	T	100-0%	100-0%	100-13%	100-0%	100-0%	100-0%
Gira	117600	230/50Hz	50-420	U	80-13%	80-13%				
Gira	238500	230/50Hz			80-0%	100-0%			100-0%	100-0%
Gira	217400	230/50Hz	4X20-250	KNX-U	100-20%	100-0%	100-33%	100-0%	98-33%	98-0%
Hager	WUD87	230/50Hz	400	LED-U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Hamilton	KP1X40	230/50Hz	400							
Hugo Müller	paladin 872110 led	230/50Hz			100-0%	100-0%	100-0%	100-0%	96-0%	98-0%
Jung	225 NVDE	230/50Hz	20-500	L	87-0%	87-0%	100-0%	100-0%	100-0%	100-0%
Jung	225 TDE	230/50Hz			100-0%	100-0%	100-13%	100-0%	100-0%	100-0%
Jung	254 UDIE1	230/50Hz			80-13%	80-13%				
Jung	1224 LEDUDE	230/50Hz		LED	80-0%	100-0%			100-0%	100-0%
Jung	3904 REGHE	230/50Hz			100-20%	100-0%	100-33%	100-0%	98-33%	98-0%
Legrand	665114	230/50Hz	400	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Legrand	574319/574339	230/50Hz	400	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Legrand	572239/572739	230/50Hz	400	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Legrand	078407/079207	230/50Hz	400	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Legrand	048869/048871	230/50Hz	400	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Legrand	067083/048869	230/50Hz	400	U	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Legrand	066721	230/50Hz	300	RL					98-0%	100-0%
Legrand	752162	230/50Hz	400	RLC	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
MASTER	DM-DGL	230/50Hz	1000	U / LED	100-33%	100-40%	100-47%			
MASTER	DM-2500	230/50Hz	2500	U / LED	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Merten	MEG5136-0000	230/50Hz			100-0%	100-0%	93-13%	100-0%	100-0%	100-0%
Merten	MEG5134-0000	230/50Hz				100-0%	73-13%	100-0%		100-0%
Merten	MEG5139-0000	230/50Hz			100-0%	100-13%	100-0%	100-0%	100-0%	100-4%
Merten	MEG5137-0000	230/50Hz			100-0%	100-0%	100-20%	100-0%	63-4%	100-0%
Merten	MEG5133-0000	230/50Hz			100-0%	100-0%	100-0%	100-7%	100-0%	100-0%
Merten	MEG5138-0000	230/50Hz			100-0%	100-0%	100-0%		100-0%	100-0%

DIMMER COMPATIBILITY PAR20 + PAR30 + PAR38

Legend					SUPERSTAR PAR20 50 36°		PARATHOM DIM PAR30 75 36°		PARATHOM DIM PAR38 100 30°	
	Good dimmability with indicated number of lamps (dimming range greater than 75%)									
	Limited dimmability with indicated number of lamps (dimming range smaler than 75%)									
	Undesired dimmability									
Not tested					EAN / Basic Code		EAN / Basic Code		EAN / Basic Code	
					4058075433120 / AC32688		4058075264304 / AC32689		4058075264083 / AC32691	
Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	Model	Voltage range	Power	Type						
Merten	MEG 5170-0300	230/50Hz	10-200	U	100-0%	100-47%			100-0%	100-0%
Merten	MEG 5131	230/50Hz	40-400	L	67-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Merten	MEG 5132	230/50Hz			67-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Merten	MEG 5140	230/50Hz	9-100	L	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Merten	MEG 5135	230/50Hz	60-1000	L	100-0%		100-0%	100-0%	98-0%	98-0%
MK	K4501	230/50Hz	180	L	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
NEXUS	881P-01	230/50Hz	400	L		100-0%	100-0%	100-0%	98-0%	98-0%
NIKO	310-0190001901	230/50Hz	5-200	U	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
NIKO	330-0070000701	230/50Hz	5-200	U	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
Odace	S520512	230/50Hz				100-0%	73-13%	100-0%		100-0%
Odace	S520511	230/50Hz			100-0%	100-0%	100-0%	100-7%	100-0%	100-0%
Odace	S520515	230/50Hz			100-0%	100-0%	100-0%		100-0%	100-0%
Odace	S520518	230/50Hz			100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Osram	HTi DALI 315 DIM	230/50Hz	20-315	DALI-T	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
PEHA	435 HAN	230/50Hz	60-600	L	80-0%	100-0%	100-0%	100-0%	100-6%	100-6%
Schneider	400GLI	230/50Hz	40-400	T	80-0%		100-0%	100-0%	100-2%	100-0%
Schneider	SBD315RC	230/50Hz			100-0%	100-0%	93-13%	100-0%	100-0%	100-0%
Schneider	SBD200LED	230/50Hz	400			100-0%	73-13%	100-0%		100-0%
Schneider	SBD600RCRL	230/50Hz			100-0%	100-13%	100-0%	100-0%	100-0%	100-4%
Schneider	SBD630RC	230/50Hz			100-0%	100-0%	100-20%	100-0%	63-4%	100-0%
Schneider	SBD600RL	230/50Hz			100-0%	100-0%	100-0%	100-7%	100-0%	100-0%
Schneider	SBD420RCRL	230/50Hz			100-0%	100-0%	100-0%		100-0%	100-0%
Schneider	5170	230/50Hz			100-0%	100-47%			100-0%	100-0%
Schneider	SBD400RL	230/50Hz			67-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Schneider	SBD5PL	230/50Hz			100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
Schneider	ATTD1000RL	230/50Hz			100-0%		100-0%	100-0%	98-0%	98-0%
Shuttle	SDIM-T-LED-500W	230/50Hz	2-500	T & LED-T	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
Siemens	5TC8 284	230/50Hz	20-525	T	100-13%	100-0%			100-0%	100-0%
Siemens	5WG1-527-1AB31	230/50Hz	20-500	KNX-U	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%

DIMMER COMPATIBILITY PAR20 + PAR30 + PAR38

Legend					SUPERSTAR PAR20 50 36°		PARATHOM DIM PAR30 75 36°		PARATHOM DIM PAR38 100 30°	
Good dimmability with indicated number of lamps (dimming range greater than 75%)										
Limited dimmability with indicated number of lamps (dimming range smaller than 75%)										
Undesired dimmability										
Not tested					EAN / Basic Code		EAN / Basic Code		EAN / Basic Code	
					4058075433120 / AC32688		4058075264304 / AC32689		4058075264083 / AC32691	
Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	Model	Voltage range	Power	Type						
theben	DIMAX 544 plus P	230/50Hz	250	T	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
theben	DIMAX 534 plus	230/50Hz	400	T	100-0%	100-0%	100-0%	100-0%	100-0%	100-0%
VADSBO	LD 220	230/50Hz	1-200	U	100-0%	100-0%	100-0%	100-0%	98-0%	98-0%
VARILIGHT	HQ3W	230/50Hz	400				67-0%	87-0%	52-0%	
VARILIGHT	JQP401W	230/50Hz	400	T	100-0%	100-0%	77-0%	100-0%	96-0%	98-0%
Vimar	20135	230/50Hz	3 - 100	U	100-0%	100-0%	100-0%	100-0%	98-0%	100-0%
ZANO	WH401	230/50Hz	400	L	100-0%	100-0%	100-0%	100-0%	96-0%	96-0%
ZANO	WH251	230/50Hz	250			87-0%	87-0%	87-0%	98-0%	96-0%
ZANO	Z GRID 500	230/50Hz	500		100-0%	100-0%	100-0%	100-0%	98-0%	98-0%

Please note:

- The compatibility list is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to a number of factors. LEDVANCE does not take over any responsibility, warranty or liability that this results can also achieved by using the devices under other conditions, or when using successor models of the tested devices, or different models of the same manufacturer, or when using other LED lamp types.
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- Please reference the dimmer manufacturer's instructions for installation.
- LED lamps contain several electronic components. Under unfavourable conditions these can lead to acoustic noise. In case of resonance even low noise can cause audible effect. Possible factors influencing this are the installation, the design of the lamp holder and the luminaire (acoustic resonance effect) as well as the dimmer or the transformer (harmonic or electronic resonance).
- Subject to change without notice.
- Errors and omission excepted.
- Always make sure to use the most recent release.

Application Notes:

- For best dimming results trailing edge dimmer type is recommended.
- Trailing edge type dimmer requires the neutral wire for installation.

Bitte beachten:

- Die Kompatibilitätsliste basiert auf Tests, die der Hersteller in einer im Labor simulierten Umgebung durchgeführt hat. Die Ergebnisse können aufgrund verschiedener Faktoren in manchen Praxisanwendungen abweichen. LEDVANCE übernimmt keinerlei Verantwortung, Garantie oder Haftung dafür, dass diese Ergebnisse tatsächlich mit den Geräten unter anderen Bedingungen, mit Nachfolgemodellen der getesteten Geräte, mit anderen Modellen desselben Herstellers oder bei Verwendung anderer LED-Lampentypen erreicht werden.
- Das Fehlen eines Dimmers in der Abbildung bedeutet nicht, dass ein Dimmer nicht kompatibel ist.
- Lesen Sie stets die Installationsanweisungen des Dimmerherstellers.
- LED-Lampen bestehen aus mehreren elektronischen Komponenten. Unter ungünstigen Bedingungen können diese Störgeräusche erzeugen. Im Resonanzfall können selbst geringe Geräusche einen hörbaren Effekt hervorrufen. Einflussfaktoren können die Installation, die Gestaltung des Lampenträgers, die Leuchte (akustischer Resonanzeffekt), der Dimmer oder der Trafo (Oberschwingungen oder elektronische Resonanz) sein.
- Änderungen vorbehalten.
- Irrtümer und Auslassungen vorbehalten.
- Vergewissern Sie sich, dass Sie stets die aktuellste Version benutzen.

Anwendungshinweis:

- Um bestmögliche Dimmerergebnisse zu erzielen, wird die Verwendung von Phasenabschnitt-Dimmern empfohlen.
- Phasenabschnitt-Dimmer erfordern bei der Installation einen Neutralleiter.

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