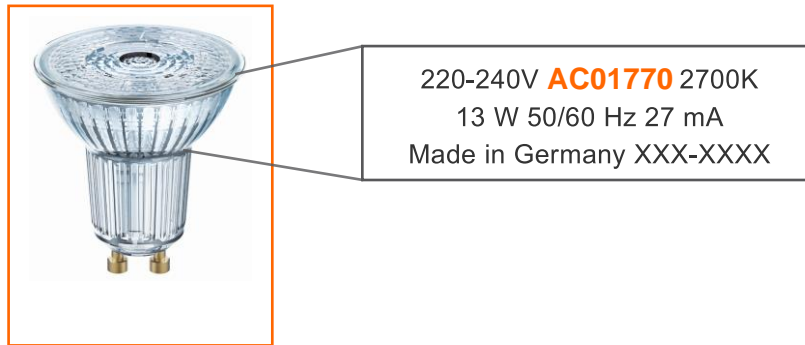


DIMMER COMPATIBILITY CL P

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 very 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*			
Very 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 relevant																				
Not tested																				
EAN/Basic Code					4052839330153/AC01184				405283933017/AC01187				4052839330218/AB41905				405807503688/AC03043			
EAN/Basic Code					4052839330157/AC01182				4052839330195/AC01184				4052839330232/AB41906				405807503682/AC03051			
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	1-20	98% - 15%	1-13	98% - 20%	1-8	97% - 23%	1-8	97% - 23%	1-20	98% - 15%	2-20	97% - 12%	2-20	98% - 16%	2-20	98% - 16%
ABB	STD 50-3	230/50Hz	60-500	L	1-10	98% - 15%	2-10	97% - 1%	1-4	96% - 1%	1-4	96% - 1%	1-20	98% - 1%	2-9	98% - 1%	1-6	97% - 9%	1-6	97% - 9%
Altenburger Electronic	50 30	230/50Hz	15-350	T	1-15	98% - 1%	1-10	97% - 5%	1-6	94% - 7%	1-6	94% - 7%	2-20	98% - 1%	2-9	98% - 1%	1-6	97% - 9%	1-6	97% - 9%
ALPORA	DSP 400	230/50Hz	400	L	3-19	99% - 19%	2-12	97% - 19%	1-8	95% - 22%	1-8	95% - 22%	2-20	99% - 15%	2-20	98% - 17%	2-20	98% - 21%	2-20	98% - 21%
Berker	2861	230/50Hz	50-420	U	1-10	96% - 22%	1-10	97% - 26%	1-10	97% - 26%	1-10	97% - 26%	1-10	96% - 22%	2-14	98% - 16%	1-9	97% - 15%	1-9	97% - 15%
Blicino	L/NNT441N	230/50Hz			1-13	98% - 34%	1-10	97% - 35%	1-5	97% - 15%	1-5	97% - 15%	1-20	98% - 15%	1-13	98% - 20%	1-8	97% - 23%	1-8	97% - 23%
Blicino	L/NNT4408	230/50Hz	40-420	T	2-13	98% - 1%	1-10	98% - 5%	1-6	97% - 9%	1-6	97% - 9%	1-11	98% - 1%	1-10	98% - 1%	1-5	99% - 7%	1-5	99% - 7%
Blicino	NT4402N	230/50Hz	500	R	1-10	98% - 1%	1-10	98% - 1%	1-4	97% - 1%	1-4	97% - 1%	1-10	98% - 1%	1-10	98% - 1%	1-10	97% - 1%	1-10	97% - 1%
Busch-Jaeger	6513 U-102	230/50Hz	40-420	T	2-20	98% - 6%	1-20	98% - 7%	1-20	97% - 10%	1-20	97% - 10%	1-20	98% - 6%	1-20	98% - 7%	1-20	97% - 10%	1-20	97% - 10%
Busch-Jaeger	6523 U-102	230/50Hz	420	T	1-20	98% - 1%	1-13	97% - 1%	1-8	96% - 1%	1-8	96% - 1%	1-20	98% - 1%	1-13	97% - 1%	1-8	96% - 1%	1-8	96% - 1%
Busch-Jaeger	2250 U	230/50Hz	60-600	L	1-14	98% - 1%	1-13	97% - 4%	1-10	97% - 19%	1-10	97% - 19%	1-10	98% - 1%	1-13	97% - 4%	1-10	97% - 19%	1-10	97% - 19%
Busch-Jaeger	6526 U	230/50Hz																		
Busch-Jaeger	2247 U-500	230/50Hz																		
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	L																
DINUY	RE EL1LE1	230/50Hz	400	LED																
ELKO	400GLI	230/50Hz																		
ELKO	316GLE	230/50Hz	20-315	T																
ELKO	600GLI	230/50Hz	40-600	U																
ELKO	420GLEI	230/50Hz	40-420	U																

Information about the OSRAM lamp type

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

DIMMER KOMPATIBILITÄT CL P

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.



220-240V **AC01770** 2700K
 13 W 50/60 Hz 27 mA
 Made in Germany XXX-XXXX

2. WIE LESE ICH DIE FOLGENDEN TABELLEN?

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

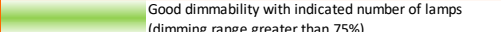









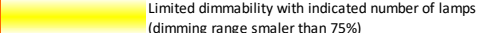

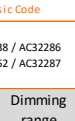






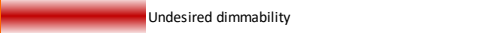
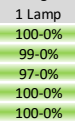

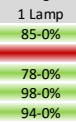
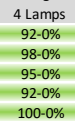
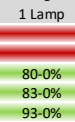
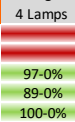
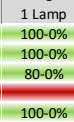
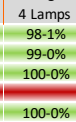

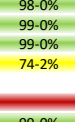
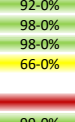

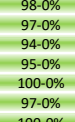
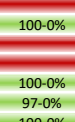
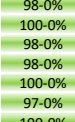


Liste der getesteten Dimmer

Legend					SUPERSTAR							
Very good dimmability with indicated number of lamps (dimming range greater than 75%)					PAR16 35 36*	PAR16 50 36*	PAR16 60 36*	PAR16 60 120*				
Limited dimmability with indicated number of lamps (dimming range smaller than 75%)												
Undesired dimmability					EAN/ Basic Code	EAN/ Basic Code	EAN/ Basic Code	EAN/ Basic Code				
Not relevant					405283330133/AC01184	405283330171/AC01187	405283330210/AB41305	405807503668/AC03049				
Not tested					405283330157/AC01192	405283330199/AC01194	405283330232/AB41306	405807503632/AC03051				
Dimmer					Number of Lamps	Dimming range	Number of Lamps	Dimming range	Number of Lamps	Dimming range	Number of Lamps	Dimming range
ABB	STD 50-3	230V50Hz	60-500	L	1-20	98% - 15%	1-13	98% - 20%	1-8	97% - 23%	1-8	97% - 23%
Altenburger Electronic	50 30	230V50Hz	15-350	T	2-20	98% - 15%	2-20	97% - 12%	2-20	98% - 16%	2-20	98% - 16%
AURORA	DSP 400	230V50Hz	400	L	1-10	98% - 15%	2-10	97% - 14%	1-4	96% - 1%	1-4	96% - 1%
Berker	2861	230V50Hz	50-420	U	1-20	98% - 27%	1-20	98% - 25%	1-20	97% - 27%	1-20	97% - 27%
Bicimo	LJNNT441N	230V50Hz			1-15	98% - 1%	1-10	97% - 5%	1-6	94% - 7%	1-6	94% - 7%
Bicimo	LJNNT4408	230V50Hz			2-20	98% - 1%	2-9	98% - 1%	1-6	97% - 3%	1-6	97% - 3%
Bicimo	NT4402N	230V50Hz	500	R	3-18	99% - 19%	2-12	97% - 19%	1-8	95% - 22%	1-8	95% - 22%
Busch-Jaeger	6513 U-102	230V50Hz	40-420	T	2-20	98% - 15%	2-20	98% - 17%	2-20	98% - 21%	2-20	98% - 21%
Busch-Jaeger	6523 U-102	230V50Hz	420	T	1-10	96% - 22%	1-10	97% - 26%				
Busch-Jaeger	2250 U	230V50Hz	60-600	L	1-10		2-14	98% - 16%	1-9	97% - 15%	1-9	97% - 15%
Busch-Jaeger	6526 U	230V50Hz			1-13	98% - 34%	1-10	97% - 35%	1-5		1-5	
Busch-Jaeger	2247 U-500	230V50Hz			1-20	98% - 15%	1-13	98% - 20%	1-8	97% - 23%	1-8	97% - 23%
CENTURY CONTROL	MULTI DIMMER	230V50Hz	60-600	L	2-13	98% - 1%	1-10	98% - 5%	1-6	97% - 9%	1-6	97% - 9%
DINJY	RE EL1LE1	230V50Hz	400	LED	1-11	98% - 1%	1-10	98% - 1%	1-5	99% - 7%	1-5	99% - 7%
ELKO	400GLI	230V50Hz			1-10		1-10		1-4	97% - 1%	1-4	97% - 1%
ELKO	316GLE	230V50Hz	20-315	T	2-20	98% - 6%	1-20	98% - 7%	1-20	97% - 10%	1-20	97% - 10%
ELKO	600GLI	230V50Hz	40-600	U	1-20	98% - 1%	1-13	97% - 1%	1-8	96% - 1%	1-8	96% - 1%
ELKO	420GLEI	230V50Hz	40-420	U	1-14	98% - 1%	1-13	97% - 4%	1-10	97% - 19%	1-10	97% - 19%

Angaben zum OSRAM Lampentyp

Bewertung der Testergebnisse in Ampel Kategorien. Beinhaltet sowohl die Lampenanzahl als auch den dimmbaren Bereich

DIMMER COMPATIBILITY CL P

Legend					P PRO CLAS P FIL / GL FR E27	CLAS P 25 DIM P GL FR E27	CLAS P 25 DIM P GL FR E14	CLAS P 40 DIM P Frosted	CLAS P 40 DIM P FIL/GL FR E27/B22d	CLAS P 40 DIM P FIL/GL FR E14	CLAS P 40 DIM S FIL/GL FR E14	CLAS P 40 DIM S FIL/GL FR E27	CLAS P 60 DIM P GL FR E14										
	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		EAN / Basic Code		EAN / Basic Code										
					4058075591738 / AC32286 4058075591752 / AC32287		4099854067631 / AC32299		4099854067662 / AC32330		4099854044083 / AC45056		4099854067570 / AC32292 4099854067594 / AC32297 4099854067617 / AC32298		4099854067686 / AC32335 4099854067709 / AC32337		4099854063244 / AC45188 4099854063329 / AC45189 4099854063343 / AC45190 4099854063404 / AC45191		4099854062964 / AC45184 4099854063008 / AC45185 4099854063145 / AC45186 4099854063206 / AC45187		4099854065552 / AC45152		
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	Dimming range 1 Lamp	Dimming range 4 Lamps	Dimming range 1 Lamp	Dimming range 4 Lamps	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																			
Schneider	SBD630RC	230/50Hz			100-0%	100-0%	85-0%	92-0%			100-0%	98-1%	95-0%	92-0%	97-0%	88-0%	99-0%	77-0%	98-0%	75-0%	98-0%	57-0%	
Schneider	SBD600RL	230/50Hz			99-0%	53-0%		98-0%			100-0%	99-0%	92-0%	91-0%	89-0%	83-0%	99-0%	99-0%	99-0%	97-0%	66-0%	95-0%	
Schneider	SBD420RCRL	230/50Hz			97-0%	99-0%	78-0%	95-0%	80-0%	97-0%	80-0%	100-0%	89-0%	98-0%	88-0%	100-0%	94-0%	96-0%	93-0%		96-0%	90-0%	
Schneider	5170	230/50Hz			100-0%		98-0%	92-0%	83-0%	89-0%			65-0%	85-0%	88-0%	88-0%	77-0%				97-0%	73-0%	
Schneider	SBD400RL	230/50Hz			100-0%	86-0%	94-0%	100-0%	93-0%	100-0%	100-0%	100-0%	63-0%	83-0%	64-0%	81-0%	99-0%	96-0%	99-0%	95-0%		91-0%	
Schneider	SBD5PL	230/50Hz			98-0%	92-0%	95-0%	98-0%		98-0%	100-0%	100-0%	58-0%	82-0%	58-0%	82-0%	95-0%	97-0%	95-0%	99-0%	96-0%	96-0%	
Schneider	ATTD1000RL	230/50Hz			99-0%	98-0%	95-0%	97-0%	100-0%	100-0%			96-0%	91-0%		88-0%	100-0%	98-0%	99-0%	99-0%	96-0%	96-0%	
Shuttle	SDIM-T-LED-500W	230/50Hz	2-500	T & LED-T	99-0%	98-0%	98-0%	94-0%		98-0%	99-0%	100-0%	86-0%	92-0%		100-0%	99-0%	99-0%	99-0%	99-0%	95-0%	61-0%	
Siemens	5TC8 284	230/50Hz	20-525	T	74-2%	66-0%		95-0%		98-0%	100-0%	100-0%				82-2%	71-0%		83-3%	71-0%	78-2%	72-0%	
Siemens	5WG1-528-1AB31	230/50Hz	20-500	KNX-U			100-100%	100-0%	100-0%	100-0%			85-0%	85-0%	85-0%	85-0%	100-21%	97-24%			95-19%	100-2%	
theben	DIMAX 544 plus P	230/50Hz	250	T			97-0%	97-0%	97-0%	97-0%	94-0%	94-0%	93-0%	95-0%	93-0%	93-0%	61-0%	99-0%			97-0%	100-0%	
theben	DIMAX 534 plus	230/50Hz	400	T	99-0%	99-0%	100-0%	100-0%	100-0%	100-0%			100-0%	100-0%	100-0%	100-0%	60-0%	98-0%		60-0%	98-0%	97-0%	100-0%
VADSBO	LD 220	230/50Hz	1-200	U	98-0%	98-0%	97-0%	95-0%	100-0%	98-0%			83-0%	89-0%		96-0%	98-0%	99-0%	99-0%	99-0%	95-0%	68-0%	
VARILIGHT	HQ3W	230/50Hz	400					94-0%	69-0%	89-0%	95-0%	100-0%	65-0%	91-0%	52-0%	92-0%	100-2%	99-3%	100-1%	99-3%	96-3%	97-3%	
VARILIGHT	JQP401W	230/50Hz	400	T			86-0%	97-0%		95-0%	97-23%	96-22%	97-0%	99-0%	99-0%	100-0%	99-2%	91-4%			100-2%	95-2%	
Vimar	20135	230/50Hz	3 - 100	U	100-0%	100-0%	98-0%	91-0%		95-0%	96-0%	96-0%	58-0%	74-0%		83-0%			99-0%	100-0%			
ZANO	WH401	230/50Hz	400	L			95-0%	92-0%	75-0%	80-0%	96-0%	94-0%		99-0%		100-0%	90-0%	98-20%			94-0%	90-12%	
ZANO	WH251	230/50Hz	250				94-0%	89-0%	77-0%	94-0%		96-0%	85-0%	97-0%	74-0%	95-0%	86-0%	89-0%		89-0%		98-0%	
ZANO	Z GRID 700	230/50Hz	250	LED			92-0%	97-0%	100-0%	95-0%	100-0%	100-0%	98-0%	95-0%	100-0%	82-0%							
ZANO	Z GRID 600	230/50Hz	250	T	99-0%	98-0%											99-0%	99-0%	100-0%	99-0%	95-0%	97-0%	
ZANO	Z GRID 500	230/50Hz	500		99-0%	97-0%	75-0%	97-0%	95-0%	97-0%	100-0%	99-0%		98-0%		99-0%	99-0%	98-0%	99-0%	98-0%	94-0%	95-0%	

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. OSRAM 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 (harmonics 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. OSRAM 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 Dimmergebnisse zu erzielen, wird die Verwendung von Phasenabschnitt-Dimmern empfohlen.
- Phasenabschnitt-Dimmer erfordern bei der Installation einen Neutralleiter.

LEDVANCE GmbH

Head Office:

Parkring 33
85748 Garching, Germany
Phone +49 89 780673-100
Fax +49 89 780673-XXX
www.ledvance.com