

# PARATHOM MR11 / MR16 DIMMER COMPATIBILITY

## BASIC INFORMATION:

### 1. HOW MANY LAMPS CAN I INSTALL ON ONE DIMMER?

For max. number of lamps on a dimmer, please use the following rule of thumb:  
(Please note: actual number may vary from calculated result)

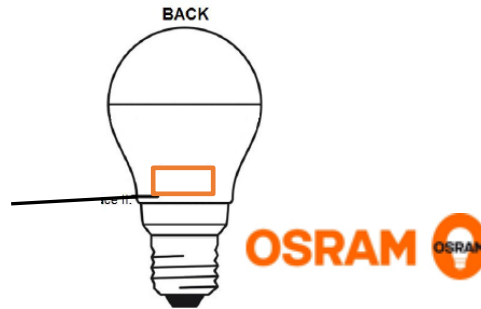
$$\frac{\text{Max load of dimmer}}{\text{equivalent wattage (HAL/GLS)}} = \text{max. number of lamps}$$

### 2. 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...

Example for the product code on the stamp of the lamp:

220-240V · AA68602 · 4000K  
6W · 50/60Hz · 27mA  
Made in Germany XXX-XXXX



### 3. HOW CAN I READ THE FOLLOWING CHARTS?

#### PARATHOM® CLASSIC ADVANCED Dimmer Compatibility

Legend:  
Information about the dimmability of the lamps. Green means very good dimmability habits, red means partial critical dimmability habits.

Dimmability traffic light system:	Type	PARATHOM CLASSIC A40 ADV	PARATHOM CLASSIC A60 ADV	PARATHOM CLASSIC A75 ADV	PARATHOM CLASSIC B25 ADV	PARATHOM CLASSIC B40 ADV	PARATHOM CLASSIC P25 ADV	PARATHOM CLASSIC P40 ADV
<b>Green</b> very good dimmability habits (Dimming range ≥ 75%)	Product Picture							
<b>Yellow</b> good dimmability habits (Dimming range ≥ 60%)	EAN	405289924437	405289911208	405289924499	4008321979230	05289911413	4008321980373	405289911451
<b>Red</b> partial critical dimmability habits (flickering or acoustic noises may occur) (Dimming range < 60%)	Product Code	AA68604	AA66582	AA752280	AA69411	AA68531	AA69413	AA68534
<b>White</b> not tested	EAN	405289924444	4052899113820		4008321994035	405289911437	4008321982352	405289911475
	Product Code	AA68603	AA66584		AA69412	AA68550	AA69414	AA68535
	EAN	405289924451	405289924482				405289911444	405289911918
	Product Code	AA68602	AA66583				AA69415	AA68536
	EAN						405289911468	405289911925
	Product Code						AA68537	

Information about the OSRAM lamp type

Dimmer	Brand	Model	Voltage	Power	Type	PARATHOM CLASSIC A40 ADV		PARATHOM CLASSIC A60 ADV		PARATHOM CLASSIC A75 ADV		PARATHOM CLASSIC B25 ADV		PARATHOM CLASSIC B40 ADV		PARATHOM CLASSIC P25 ADV		PARATHOM CLASSIC P40 ADV	
						Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4	Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4	Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4	Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4	Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4	Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4	Lamps on dimmer: 1-4	Number of Lamps on dimmer: 1-4
ABB STD 50-3	ABB	STD 50-3	230V/50Hz	60-500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Berker 2874	Berker	2874	230V/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Berker 281902	Berker	281902	230V/50Hz	60-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeeger 2247U	Busch-Jaeeger	2247U	230V/50Hz	20-500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeeger 6523 U	Busch-Jaeeger	6523 U	230V/50Hz	2-100	LED L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeeger 6513 U-102	Busch-Jaeeger	6513 U-102	230V/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeeger 6517 U-101	Busch-Jaeeger	6517 U-101	230V/50Hz	60-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Ehmann 4660c0026	Ehmann	4660c0026	230V/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO 319GLE	ELKO	319GLE	230V/50Hz	23-315	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO 420GLE/II	ELKO	420GLE/II	230V/50Hz	20-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO 600GLI	ELKO	600GLI	230V/50Hz	40-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO 630GLE	ELKO	630GLE	230V/50Hz	20-630	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELSO 174200	ELSO	174200	230V/50Hz	40-315	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

Number of lamps tested on dimmer

List of dimmers being tested in the laboratory

Test results of dimmability according to the traffic light system

Example: Dimmer ABB STD 50-3 shows very good dimmability habits for one PARATHOM CLASSIC A60 ADV lamp.

**BASISINFORMATIONEN:**

**1. WIE VIELE LAMPEN KANN ICH AN EINEN DIMMER ANSCHLIESSEN?**

Die maximale Anzahl an Lampen, die Sie an einen Dimmer anschließen können, ergibt sich aus der folgenden Faustregel:

$$\frac{\text{max. Leistungsabgabe des Dimmers}}{\text{äquivalente Lampenleistung (HAL/GLS)}} = \text{max. Anzahl der Lampen}$$

(Beachten Sie, dass die tatsächliche Anzahl von dem errechneten Ergebnis abweichen kann.)

**2. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?**

Der Produktcode beschreibt den Lampentyp.

Er besteht aus sieben Buchstaben und Ziffern und beginnt mit A...

Beispiel eines Produktcodes auf dem Aufdruck der Lampe:

220-240V · **AA68602** · 4000K  
6W · 50/60Hz · 27mA  
Made in Germany XXX-XXXX



**3. WIE LESE ICH DIE FOLGENDEN TABELLEN?**

**PARATHOM® CLASSIC ADVANCED Dimmer Compatibility**

Legende:  
Angaben zur Dimmbarkeit der Lampen – grün bedeutet sehr gute Eigenschaften, rot bedeutet teilweise kritische Dimmeigenschaften

Type	PARATHOM CLASSIC A40 ADV	PARATHOM CLASSIC A60 ADV	PARATHOM CLASSIC A75 ADV	PARATHOM CLASSIC B25 ADV	PARATHOM CLASSIC B40 ADV	PARATHOM CLASSIC P25 ADV	PARATHOM CLASSIC P40 ADV
Product Picture							
EAN	405289924437	405289911208	405289924499	4008321979230	05289911413	4008321980373	405289911451
Product Code	AA68604	AA66582	AA752280	AA69411	AA68531	AA69413	AA68534
EAN	405289924444	405289911320		4008321994035	405289911437	4008321992352	405289911475
Product Code	AA68603	AA66594		AA69412	AA68550	AA69414	AA68535
EAN	405289924451	405289924482				405289911444	405289911918
Product Code	AA68602	AA66593				AA69415	AA68536
EAN						405289911469	405289911925
Product Code						AA69416	AA68537

Angaben zum OSRAM-Lampentyp

Anzahl der an einem Dimmer getesteten Lampen

Dimmer	Number of Lamps on dimmer: 1 1 4		Number of Lamps on dimmer: 1 1 4		Number of Lamps on dimmer: 1 1 4		Number of Lamps on dimmer: 1 1 4		Number of Lamps on dimmer: 1 1 5		Number of Lamps on dimmer: 1 1 4		Number of Lamps on dimmer: 1 1 4	
	Lamp	Lamps	Lamp	Lamps	Lamp	Lamps	Lamp	Lamps	Lamp	Lamps	Lamp	Lamps	Lamp	Lamps
ABB STD 50-3														
Berker 2874														
Berker 281902														
Busch-Jaeger 2247U														
Busch-Jaeger 6523 U														
Busch-Jaeger 6513 U-102														
Busch-Jaeger 6517 U-101														
Ehmann 4660-0026														
ELKO 315GLE														
ELKO 420GLE/I														
ELKO 600GLI														
ELKO 630GLE														
ELSO 174200 (ATD300R)														








Liste der getesteten Dimmer

Ergebnisse des Dimmbarkeitstests an der Lichtsignalanlage

**Dimmability traffic light system:**

- Green very good dimmability habits (Dimming range ≥ 75%)
- Yellow good dimmability habits (Dimming range ≥ 60%)
- Red partial critical dimmability habits (flickering or acoustic noises may occur) (Dimming range < 60%)
- White not tested

**Lamp**

Type	PARATHOM ADV MR11 20	PARATHOM ADV MR16 20	PARATHOM ADV MR16 35	PARATHOM ADV MR16 50	PARATHOM PRO MR16 20	PARATHOM PRO MR16 35	PARATHOM PRO MR16 43
Product Picture							
EAN	4052899938687	4052899957589	4052899957633	4052899957688	4052899957497	4052899957510	4052899957534
Product Code	AB33561	AB39673	AB39669	AB39672	AB39677	AB39678	AB39679
EAN		4052899957596	4052899957640	4052899957695	4052899957503	4052899957527	4052899957541
Product Code		AB41839	AB41847	AB41844	AB41842	AB41841	AB41838
EAN		4052899957602	4052899957657	4052899957701			4052899957558
Product Code		AB41843	AB41846	AB41845			AB41840

**Dimmer**

Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ABB	STD 50-3	230/50Hz	60-500	L																									
Altenburger El	50.30	230/50Hz	15-350	T																									
AURORA(Core I DSP 400		230/50Hz	400	L																									
Berker	2861	230/50Hz	50-420	T																									
Bticino	L/N/NT 441N	230/50Hz	400	U																									
Bticino	HC/HD/HS4411	230/50Hz	400	U																									
bticino	NT4402N	230/50Hz	500	L																									
Bticino	L/N/NT 4408	230/50Hz	600	L																									
Bticino	HC/HD/HS4408	230/50Hz	600	L																									
Busch-Jaeger	6513U-102	230/50Hz	40-420	T																									
Busch-Jaeger	6523U-LED	230/50Hz	2-100	L																									
Busch-Jaeger	2247 U-500	230/50Hz	60-500	L																									
Busch-Jaeger	2250 U	230/50Hz	60-600	L																									
Busch-Jaeger	6591UJCGI-101-214	230/50Hz	40-420	T																									
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	L																									
DINUY	RE EL1 LE1	230/50Hz	400	L/T																									
ELKO	315GLE	230/50Hz	20-315	T																									
ELKO	420GLE/I	230/50Hz	40-420	T																									
ELKO	600GLi	230/50Hz	40-600	U																									
ELKO	600GLE/I	230/50Hz	20-600	L																									
ELKO	1000LRI	230/50Hz	60-1000	L																									
ELKO	630GLE	230/50Hz	20-630	T																									
Eltako	EUD61NPN-UC	230/50Hz	5-400	L/T																									
Feller	40420.RLC	230/50Hz	40-420	T																									
Feller	40600.RL	230/50Hz	40-600	U																									
Feller	40420.RLC	230/50Hz	20-630	T																									
Feller	40600 RLC	230/50Hz	20-600	L																									
Feller	31000	230/50Hz	60-1000	L																									
Gira	030700	230/50Hz	20-525	T																									
Gira	226200	230/50Hz	20-500	L																									
Gira	030500	230/50Hz	50-420	T																									
Gira	117600	230/50Hz	50-420	U																									
Gira	217400	230/50Hz	4X20-250	T																									
Hager	WUD87	230/50Hz	400	T																									
Hamilton	KP1X40	230/50Hz	400	L																									
Hugo Müller	paladin 872110 led	230/50Hz	400	L/T																									

\* MR16 and MR11 versions tested with HTM 70 transformer

**Dimmability traffic light system:**

- Green** very good dimmability habits (Dimming range  $\geq 75\%$ )
- Yellow** good dimmability habits (Dimming range  $\geq 60\%$ )
- Red** partial critical dimmability habits (flickering or acoustic noises may occur) (Dimming range  $< 60\%$ )
- White** not tested

Lamp

Type	PARATHOM ADV MR11 20	PARATHOM ADV MR16 20	PARATHOM ADV MR16 35	PARATHOM ADV MR16 50	PARATHOM PRO MR16 20	PARATHOM PRO MR16 35	PARATHOM PRO MR16 43
Product Picture							
EAN	4052899938687	4052899957589	4052899957633	4052899957688	4052899957497	4052899957510	4052899957534
Product Code	AB33561	AB39673	AB39669	AB39672	AB39677	AB39678	AB39679
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Product Code		AB41839	AB41847	AB41844	AB41842	AB41841	AB41838
EAN		4052899957602	4052899957657	4052899957701			4052899957558
Product Code		AB41843	AB41846	AB41845			AB41840

**Dimmer**

Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:				Number of Lamps on dimmer:			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Legrand	099314	230/50Hz	300	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Legrand	281080	230/50Hz	500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Legrand	281084	230/50Hz	500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Legrand	617030	230/50Hz	600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Legrand	617031	230/50Hz	1000	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Legrand	770061	230/50Hz	400	L	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Legrand	770062	230/50Hz	400	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
MASTER	DM-2500	230/50Hz	2500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
MASTER	DM-DGL	230/50Hz	1000	L	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG5136-00C	230/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG5137-00C	230/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG5138-00C	230/50Hz	40-600	U	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG5138-00C	230/50Hz	20-630	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG5139-00C	230/50Hz	20-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG 5131	230/50Hz	40-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG5132	230/50Hz	40-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG 5135	230/50Hz	60-1000	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG 5140	230/50Hz	9-100	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Merten	MEG 5170-03	230/50Hz	10-200	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
MK	K4501	230/50Hz	180	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
NEXUS	881P-01	230/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
NIKO	310-01900 / 01901	230/50Hz	5-200	L/T	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
NIKO	330-00700 / 00701	230/50Hz	5-200	L/T	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Oda ce	S520515	230/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Oda ce	S520511	230/50Hz	40-600	U	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Oda ce	S520518	230/50Hz	9-10	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Osram	Hti DALI 315	230/50Hz	20-315	DALI T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
PEHA	435 HAN	230/50Hz	60-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SBD315RC	230/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SDB420RCRL	230/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SBD600RL	230/50Hz	40-600	U	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SDB600RCRL	230/50Hz	20-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SBD400RL	230/50Hz	40-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	ATTD1000RL	230/50Hz	60-1000	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SBDSPL	230/50Hz	9-10	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
Schneider	SDB630RC	230/50Hz	20-630	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			

\* MR16 and MR11 versions tested with HTM 70 transformer

**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.

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