

Operation of LED-Retrofit Lamps LED Star Reflector PAR16 E14 with various Dimmers



Radium
Die Lichtmarke



Legend: green dimmability very good (under 25% light)
yellow dimmable (under 40% light)
red dimmability critical (flickering and/or noise possible, and/or only more than 40% light)
white not tested

T: Trailing edge phase dimmer
L: Leading edge phase dimmer
U: Universal dimmer

PAR16 50 36°

44122596

Manufacturer	Dimmer-Type, Model	Mains/ Power	Load Range [W]	Dimming Method	1 Lamp	4 Lamps
ABB	STD 50-3	L	60-500	230V / 50Hz	95-5%	100-10%
Altenburger Electronic	50.30	T	15-350	230V / 50Hz	100-0%	100-0%
AURORA	DSP400X	L	5-130	230V / 50Hz	95-0%	95-0%
Berker	2861	T	50-420	230V / 50Hz	100-0%	100-0%
bticino	NT4402N	L	500	230V / 50Hz	-	-
Busch-Jaeger	6526 U	T	40-420	230V / 50Hz	95-0%	95-0%
Busch-Jaeger	2250U	L	600	230V / 50Hz	95-0%	100-0%
Busch-Jaeger	6513U-102	T	40-420	230V / 50Hz	95-0%	95-0%
Busch-Jaeger	6523U-102	L	2-100	230V / 50Hz	95-0%	95-0%
CENTURY CONTROL	MULTI DIMMER	L	60-600	230V / 50Hz	100-0%	100-0%
DimMax	420SL	L/T	200	230V / 50Hz	95-0%	100-0%
DINUY	RE EL1 LE1	L/T	400	230V / 50Hz	100-0%	95-0%
Ehmann	T24.08	L	5-150W	230V / 50Hz	95-10%	95-10%
Ehmann	T29.08	L	5-100W	230V / 50Hz	95-40%	95-30%
ELKO	ELKO 315GLE	T	20-315	230V / 50Hz	100-0%	100-0%
ELKO	420GLE/I	T	40-420	230V / 50Hz	95-0%	100-0%
Eltako	EUD61NPN-UC	L/T	5-400	230V / 50Hz	100-0%	95-0%
Feller	40600 RLC	L	20-600	230V / 50Hz	95-0%	100-5%
Gira	030700	T	20-525	230V / 50Hz	100-0%	100-0%
Gira	117600	U	50-420	230V / 50Hz	-	100-5%
Gira	217400	T	4X20-250	230V / 50Hz	-	-
Hager	WUD87	T	400	230V / 50Hz	100-0%	100-0%
Hamilton	KP1X40	L	400	230V / 50Hz	100-0%	100-0%
Honeywell	K1501LV	L	60-240	230V / 50Hz	95-0%	100-0%
Jung	225 NVDE	L	20-500	230V / 50Hz	-	-
Jung	1224 LEDUDE	T	50-420	230V / 50Hz	95-0%	95-0%
Legrand	067083	L	400	230V / 50Hz	95-0%	100-0%
Legrand	281084	L	500	230V / 50Hz	-	-
Legrand	617030L	L	600	230V / 50Hz	-	-
Legrand	099314	L	300	230V / 50Hz	95-0%	100-0%
Legrand	770062	T	5-60W	230V / 50Hz	95-10%	100-10%
Legrand	617031	L	1000	230V / 50Hz	95-5%	100-0%
Legrand	078405	L	600	230V / 50Hz	-	-
MASTER	DM-DGL	L	1000	230V / 50Hz	100-0%	95-0%
MASTER	DM-2500	L	2500	230V / 50Hz	100-0%	100-0%
Merten	MEG5134	T	20-525	230V / 50Hz	95-0%	100-0%
Merten	MEG 5133	L	40-600	230V / 50Hz	100-0%	100-0%
Merten	MEG 5137	T	20-630	230V / 50Hz	95-0%	100-0%
Merten	MEG 5170-0300	T	10-200	230V / 50Hz	95-0%	95-0%
Merten	MEG 5131	L	40-400	230V / 50Hz	100-0%	100-0%

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Manufacturer	Dimmer-Type, Model	Mains/ Power	Load Range [W]	Dimming Method	1 Lamp	4 Lamps
Merten	MEG 5140	L	9-100	230V / 50Hz	95-0%	100-0%
Merten	MEG 5135	L	60-1000	230V / 50Hz	100-0%	100-0%
MK	K4501	L	180	230V / 50Hz	-	-
NIKO	310-01900 / 01901	L/T	5-200	230V / 50Hz	100-0%	100-0%
NIKO	330-00700 / 00701	L/T	5-200	230V / 50Hz	100-0%	100-0%
Osram	Hti DALI 315 DIM	DALI T	20-315	230V / 50Hz	100-0%	100-0%
PEHA	435 HAN	L	60-600	230V / 50Hz	95-15%	100-25%
Schneider	ELKO 400GLI	/	400	230V / 50Hz	95-35%	100-20%
Shuttle	SDIM-T-LED-500W	T	2-500	230V / 50Hz	95-0%	95-0%
SIEMENS	5TC8 284	T	20-525	230V / 50Hz	-	100-75%
SIEMENS	5WG1-527-1AB31	T	20-500	230V / 50Hz	-	-
theben	DIMAX 544 plus P	T	250	230V / 50Hz	95-0%	95-0%
theben	DIMAX 534 plus	T	400	230V / 50Hz	95-10%	95-5%
VADSBO	LD 220	T	1-200	230V / 50Hz	95-50%	95-40%
VARILIGHT	HQ3W	L	400	230V / 50Hz	95-0%	100-0%
Varilight V-Pro	JQP401W	T	120	230V / 50Hz	95-0%	95-0%
Vimar	20135	L/T	3 - 100	230V / 50Hz	95-5%	95-0%
ZANO	WH401	L	400	230V / 50Hz	95-0%	100-0%
ZANO	WH251	L	250	230V / 50Hz	95-50%	100-0%
ZANO	Z GRID 500	L	500	230V / 50Hz	100-0%	100-0%

Typical values. Test performed with regarded lamps named.

The test results reflect the measurement of the individual devices that were used in tests.

Radium does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using successor models of the tested devices or different models of the same manufacturer.

The test results were achieved by using the above mentioned LED-lamp types.

Radium does not take over any responsibility, warranty or liability that these results can also be achieved by using the devices under other conditions or when using other LED-lamp types.

Due to the big number of electronic components and many other influence factors noise can emerge in unfavourable condiditons, which may be well audible in the case of resonance.

Generally speaking, employment of trailing edge dimmers is recommended.

They require the neutral wire for installation.

Changes, errors and omissions excepted.