

Operation of LED-Retrofit Lamps LED Star Reflector MR16 GU5.3 with various Dimmers



Radium
Die Lichtmarke

Legend: grün dimmability very good
gelb moderately dimmable (possibly with restrictions)
rot dimming critical (regarding light, flickering and/or noise possible)
white not tested



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

MR16 35 36°	MR16 50 36°
44225230	44125233
44225231	43925234
44225232	43925235

Manufacturer	Dimmer-Type, Model	Mains/ Power	Load Range [W]	Dimming Method	1 Lamp	4 Lamps	1 Lamp	4 Lamps
ABB	STD 50-3	L	60-500	230V / 50Hz	100-20%	100-5%	100-20%	100-5%
Altenburger Electronic	50.30	T	15-350	230V / 50Hz	90-15%	100-20%	90-15%	100-20%
AURORA(Core No.9)	DSP 400	L	400	230V / 50Hz	90-0%	70-0%	90-0%	70-0%
Berker	2861	T	50-420	230V / 50Hz	95-10%	95-10%	95-10%	95-10%
bticino	NT4402N	L	500	230V / 50Hz	-	100-20%	-	100-20%
BTICINO	RW4411				90-0%	90-0%	90-0%	90-0%
BTICINO	HD4411				90-0%	90-0%	90-0%	90-0%
Busch-Jaeger	6513U-102	T	40-420	230V / 50Hz	-	100-45%	-	100-45%
Busch-Jaeger	6523U-102	L	2-100	230V / 50Hz	90-0%	90-10%	90-0%	90-10%
Busch-Jaeger	2250 U	L	60-600	230V / 50Hz	95-0%	95-0%	95-0%	95-0%
CENTURY CONTROL	MULTI DIMMER	L	60-600	230V / 50Hz	95-0%	100-0%	95-0%	100-0%
DimMax	420SL	L/T	200	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
DINUY	RE EL1 LE1	L/T	400	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
DINUY	RE PLA LE 1				100-0%	100-0%	100-0%	100-0%
DINUY	RE PLA LE 0				-	-	-	-
EcoDIM	oDIM 0.3-450W Led Dimmer				90-0%	90-0%	90-0%	90-0%
EHMANN	T24.08				75-0%	80-0%	75-0%	80-0%
EHMANN	T29.08				90-0%	100-0%	90-0%	100-0%
ELKO	420GLE/I	T	40-420	230V / 50Hz	100-0%	100-10%	100-0%	100-10%
Eltako	EUD61NPN-UC	L/T	5-400	230V / 50Hz	90-10%	85-30%	90-10%	85-30%
ELTAKO	EUD12NPN-UC				-	-	-	-
ELTAKO	EUD61NPN-UC				100-0%	100-0%	100-0%	100-0%
Feller	40600 RLC	L	20-600	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
FINDER	15.21.8.230.0200				100-0%	100-0%	100-0%	100-0%
FINDER	15.21.8.230.B300				100-10%	100-10%	100-10%	100-10%
FINDER	15.81.8.230.0500				100-0%	100-0%	100-0%	100-0%
Gira	030700	T	20-525	230V / 50Hz	95-15%	90-15%	95-15%	90-15%
Gira	117600	U	50-420	230V / 50Hz	95-10%	90-15%	95-10%	90-15%
Gira	217400	T	4X20-250	230V / 50Hz	100-15%	100-20%	100-15%	100-20%
Hager	WUD87	T	400	230V / 50Hz	95-15%	95-10%	95-15%	95-10%
Hamilton	KP1X40	L	400	230V / 50Hz	90-0%	100-15%	90-0%	100-15%
Ion	tries LED Dimmer 0.3-350 Watt				90-0%	90-0%	90-0%	90-0%
Ion	s NIEWUW:LED Dimmer 600 Watt				90-0%	90-0%	90-0%	90-0%
Ion	ID350W-MKII				95-0%	95-0%	95-0%	95-0%
Ion	istries LED Dimmer 200 Watt				90-0%	90-0%	90-0%	90-0%
Ion	ID200W-MKII				90-15%	90-15%	90-15%	90-15%
Jung	225 NVDE	L	20-500	230V / 50Hz	85-0%	90-0%	85-0%	90-0%
Jung	1224 LEDUDE	T	50-420	230V / 50Hz	-	-	-	-
JUNG	1731DD				90-5%	100-0%	90-5%	100-0%
JUNG	UD 1755 REG				100-0%	100-5%	100-0%	100-5%
JUNG	1724 DM				90-0%	60-0%	90-0%	60-0%
Legrand	665114	L	400	230V / 50Hz	100-0%	95-10%	100-0%	95-10%
Legrand	752162	T	5-60W	230V / 50Hz	100-0%	95-0%	100-0%	95-0%
MASTER	DM-DGL	L	1000	230V / 50Hz	100-20%	100-20%	100-20%	100-20%
MASTER	DM-2500	L	2500	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
merten	MEG 5136	T	20-315	230V / 50Hz	95-0%	95-0%	95-0%	95-0%
Merten	MEG5134-0000	T	20-525	230V / 50Hz	90-0%	100-15%	90-0%	100-15%
merten	MEG 5133	L	40-600	230V / 50Hz	100-10%	100-0%	100-10%	100-0%

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merten	MEG 5137	T	20-630	230V / 50Hz	85-15%	100-15%	85-15%	100-15%
Merten	MEG 5170-0300	T	10-200	230V / 50Hz	-	60-15%	-	60-15%
Merten	MEG 5131	L	40-400	230V / 50Hz	95-0%	95-0%	95-0%	95-0%
Merten	MEG 5140	L	9-100	230V / 50Hz	85-0%	95-0%	85-0%	95-0%
Merten	MEG 5135	L	60-1000	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
MK	K4501	L	180	230V / 50Hz	95-0%	95-5%	95-0%	95-5%
NIKO	310-01900 / 01901	L/T	5-200	230V / 50Hz	100-0%	100-5%	100-0%	100-5%
NIKO	330-00700 / 00701	L/T	5-200	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
Osram	Hti DALI 315 DIM	DALI T	20-315	230V / 50Hz	100-15%	100-15%	100-15%	100-15%
PEHA	435 HAN	L	60-600	230V / 50Hz	80-0%	85-0%	80-0%	85-0%
Plejd	DIM-01				-	-	-	-
Plejd	DIM-02				-	-	-	-
RVE	RV LED 250				100-0%	100-0%	100-0%	100-0%
Schneider	ELKO 400GLI	/	400	230V / 50Hz	85-0%	90-0%	85-0%	90-0%
Scolmore	MD9014				80-0%	85-0%	80-0%	85-0%
Shuttle	SDIM-T-LED-500W	T	2-500	230V / 50Hz	100-0%	90-0%	100-0%	90-0%
Siemens	5TC8 284	T	20-525	230V / 50Hz	100-15%	100-15%	100-15%	100-15%
Siemens	5WG1-527-1AB31	T	20-500	230V / 50Hz	100-0%	100-0%	100-0%	100-0%
theben	DIMAX 544 plus P	T	250	230V / 50Hz	95-15%	95-15%	95-15%	95-15%
theben	DIMAX 534 plus	T	400	230V / 50Hz	95-30%	95-30%	95-30%	95-30%
VADSBO	LD 220	T	1-200	230V / 50Hz	-	100-35%	-	100-35%
VARILIGHT	HQ3W	L	400	230V / 50Hz	100-20%	-	100-20%	-
VARILIGHT	JQP401W	T	400	230V / 50Hz	100-0%	95-0%	100-0%	95-0%
Varilight	MJP120				90-0%	100-0%	90-0%	100-0%
Vimar	20135	L/T	3 - 100	230V / 50Hz	100-15%	100-20%	100-15%	100-20%
YOKIS	MTV 500E/M				90-0%	100-0%	90-0%	100-0%
ZANO	WH401	L	400	230V / 50Hz	95-0%	-	95-0%	-
ZANO	WH251	L	250	230V / 50Hz	95-0%	90-0%	95-0%	90-0%
ZANO	Z GRID 500	L	500	230V / 50Hz	90-0%	95-50%	90-0%	95-50%

Typical values. Tests were conducted with a corresponding lamp on the HTM70 transformer.

The measurements on the respective devices used in the tests show these test results.

Radium assumes no responsibility, guarantee, or liability for the accuracy of these results when using the devices under different operating conditions, with successor models of the test devices, or with other devices from the same manufacturer.

The test results were obtained using the lamp type specified above.

Radium assumes no responsibility, guarantee, or liability for the achievability of these results when using the devices under other operating conditions or with other LED lamp types. Due to the various electronic components and many influencing factors, noise may be generated under unfavorable conditions, which may be clearly 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.