

Operation of LED-Retrofit Lamps LED Star MR16 43 with various Dimmers



RL-MR16 43

44020742
43820743
43820744

Legend:

green

dimmbability very good (under 25% light)

red

dimmbability critical (* flickering and/or sound possible, and/or not under 25% light)

white

not tested / out of working range of dimmer

				1 Lamp											4 Lamps												
Manufacturer	Dimmer-Type, Model	Load range [W]		100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%		100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%	
ABB	STD 50-3	L	60-500												70% -10%												100% -25%
Altenburger Electronic	50.30	T	15-350												94% -8%						*	*	*	*			100% -12%
AURORA	DSP 400	L	400												65% -0%	*											100% -0%
Berker	2861	T	50-420												95% -8%												100% -15%
bticino	NT4402N	L	500						*						59% -20%												100% -23%
Busch-Jaeger	6513U-102	T	40-420												85% -12%												100% -19%
Busch-Jaeger	6523U-102	L	2-100												85% -0%												96% -5%
CENTURY CONTROL	MULTI DIMMER	L	60-600		*										97% -0%									*			100% -0%
DimMax	420SL	L/T	200												100% -2%												100% -2%
DINUY	RE EL1 LE1	L/T	400												97% -25%												100% -34%
ELKO	420GLE/I	T	40-420												100% -6%												100% -5%
Eltako	EUD61NPN-UC	L/T	5-400									*	*		91% -0%								*	*			100% -3%
Feller	40600 RLC	L	20-600												100% -0%												100% -0%
Gira	030700	T	20-525												100% -7%												100% -15%
Gira	117600	U	50-420												94% -7%												100% -15%
Gira	217400	T	4X20-250												93% -9%												100% -16%
Hager	WUD87	T	400												97% -9%												100% -16%
Hamilton	KP1X40	L	400												66% -53%												100% -85%
Jung	225 NVDE	L	20-500												71% -0%												102% -0%
Jung	1224 LEDUDE	T	50-420												95% -0%												100% -0%
Legrand	067083	L	75												80% -0%												89% -2%
Legrand	066721	L	3-75												92% -92%												93% -93%
Legrand	752162	T	5-60W												91% -1%												100% -2%
MASTER	DM-DGL	L	1000												93% -46%												100% -58%
MASTER	DM-2500	L	2500												96% -0%												100% -0%
Merten	MEG 5136	T	20-315												93% -0%												100% -0%
Merten	MEG5134-0000	T	20-525												65% -4%												26% -13%
Merten	MEG 5133	L	40-600												98% -6%												100% -3%
Merten	MEG 5137	T	20-630												92% -12%												100% -15%
Merten	MEG 5170-0300	T	10-200												48% -8%												61% -13%
Merten	MEG 5131	L	40-400												100% -0%												100% -0%
Merten	MEG 5140	L	9-100												48% -0%												100% -0%
Merten	MEG 5135	L	60-1000						*	*	*	*	*	*	100% -0%												100% -0%
MK	K4501	L	180												87% -2%												100% -4%
NEXUS	881P-01	L	400												75% -0%												100% -0%
NIKO	310-01900 / 01901	L/T	5-200												97% -0%												100% -3%
NIKO	330-00700 / 00701	L/T	5-200												97% -7%												100% -9%
Osram	Hti DALI 315 DIM	DALI T	20-315												100% -6%												100% -7%
PEHA	435 HAN	L	60-600												56% -0%												100% -0%
Schneider	ELKO 400GLI	/	400												56% -0%												102% -0%
Shuttle	SDIM-T-LED-500W	T	2-500												95% -0%												100% -0%
Siemens	5TC8 284	T	20-525												93% -12%						*	*	*				99% -15%
Siemens	5WG1-527-1AB31	T	20-500												95% -0%												100% -0%
Theben	DIMAX 544 plus P	T	250												98% -10%												100% -13%
Theben	DIMAX 534 plus	T	400												98% -0%												100% -1%
VADSBO	LD 220	T	1-200												75% -75%												100% -39%
VARILIGHT	HQ3W	L	400												91% -0%												100% -11%
VARILIGHT	JQP401W	T	400												91% -17%							*					100% -22%
Vimar	20135	L/T	3 - 100												95% -18%												100% -24%
ZANO	WH401	L	400												72% -0%												100% -0%
ZANO	WH251	L	250												72% -0%												100% -0%
ZANO	Z GRID 500	L	500												73% -0%									*			100% -0%

Tests have been carried out with HTM70 transformer. The test results reflect the measurement of the individual devices that were used in tests. (* Flickering may be observed.)

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.