LED PERFORMANCE MR 16 50

We bring innovation to light!



Product licensee of trademark
OSRAM in general lighting



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Product Information

LED PERFORMANCE MR 16 50



Product Overview[1]

Model Name	Basic Code	Wattage	Input Voltage	CCT	Lm
MR16 50 P 7.5W 927 10° GU5.3	AC29158	7.5W	12V	2700K	500lm
MR16 50 P 7.5W 930 10° GU5.3	AC29159	7.5W	12V	3000K	500lm
MR16 50 P 7.5W 827 24° GU5.3	AC28740	7.5W	12V	2700K	700lm
MR16 50 P 7.5W 830 24° GU5.3	AC28741	7.5W	12V	3000K	700lm
MR16 50 P 7.5W 827 36° GU5.3	AC29155	7.5W	12V	2700K	700lm
MR16 50 P 7.5W 830 36° GU5.3	AC29156	7.5W	12V	3000K	700lm
MR16 50 P 7.5W 865 36° GU5.3	AC28742	7.5W	12V	6500K	720lm
MR16 50 P 7.5W 830 60° GU5.3	AC28743	7.5W	12V	3000K	760lm
MR16 50 P 7.5W 840 60° GU5.3	AC28744	7.5W	12V	4000K	760lm
MR16 50 P 7.5W 865 60° GU5.3	AC28745	7.5W	12V	6500K	760lm

Benefits

•Easy replacement of halogen lamps due to compact full glass design and single optic
•Free of multiple shadows for an excellent accent lighting Dimming towards your ideal ambience
•Up to 82% Energy Saving, spend little and save a lot
•Installation and maintenance is so easy, no ballast compatibility issue
•High color consistency thanks to narrow binning
•Install and forget: assured by Germany quality standard

Key Features

•Full glass design, elegant appearance
•Uniform and clean beam thanks to the innovative single optics
•Perfect Fit, 1:1 halogen outline ensures easy installation
•Excellent transformer and dimmer compatibility
•Color consistency: ≤5 Standard Deviation Color Matching
•12VAC input voltage
•UV and NIR radiation free
•Mercury free
•25,000 hours lifetime[2]

[1] Typical values. All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

[2] L70B50 is the average operating life of the LED Lamp during which the luminous flux is greater than or equal to 70% of the initial luminous flux, for 50% of the population. The lifetime is estimated at room temperature (25° C), free air burning, base up burning position and at rated voltage.

For lamps with a weight significantly higher than that of the lamps for which they are a replacement, attention should be drawn to the fact that the increased weight may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lamp retention.

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Product Information

LED PERFORMANCE MR 16 50

Ordering Guide

Product	Wattage	CCT	Lm	Candela	Diameter	Length	Weight	Beam Angle	EAN10	EAN40 (ship unit)	Ship. unit
LPMR165010 7.5W/927 12VGU5.310X1AR6OSRAM	7.5W	2700K	500lm	3500cd	50mm	46mm	43g	10°	4058075549326	4058075549333	10
LPMR165010 7.5W/930 12VGU5.310X1AR6OSRAM	7.5W	3000K	500lm	3500cd	50mm	46mm	43g	10°	4058075549340	4058075549357	10
LPMR165024 7.5W/827 12V GU5.3 10X1AR6OSRAM	7.5W	2700K	700lm	2000cd	50mm	46mm	43g	24°	4058075535336	4058075535343	10
LPMR165024 7.5W/830 12V GU5.3 10X1AR6OSRAM	7.5W	3000K	700lm	2000cd	50mm	46mm	43g	24°	4058075535350	4058075535367	10
LPMR165036 7.5W/827 12V GU5.3 10X1AR6OSRAM	7.5W	2700K	700lm	1000cd	50mm	46mm	43g	36°	4058075540187	4058075540194	10
LPMR165036 7.5W/830 12V GU5.3 10X1AR6OSRAM	7.5W	3000K	700lm	1000cd	50mm	46mm	43g	36°	4058075540200	4058075540217	10
LPMR165036 7.5W/865 12V GU5.3 10X1AR6OSRAM	7.5W	6500K	720lm	1000cd	50mm	46mm	43g	36°	4058075535374	4058075535381	10
LPMR165036 7.5W/830 12VGU5.310X1AR6AUOSRAM	7.5W	3000K	700lm	1000cd	50mm	46mm	43g	36°	4058075540224	4058075540231	10
LPMR165036 7.5W/865 12VGU5.310X1AR6AUOSRAM	7.5W	6500K	720lm	1000cd	50mm	46mm	43g	36°	4058075535398	4058075535404	10
LPMR165060 7.5W/830 12VGU5.310X1AR6AUOSRAM	7.5W	3000K	760lm	665cd	50mm	46mm	43g	60°	4058075535411	4058075535428	10
LPMR165060 7.5W/840 12VGU5.310X1AR6AUOSRAM	7.5W	4000K	760lm	665cd	50mm	46mm	43g	60°	4058075535435	4058075535442	10
LPMR165060 7.5W/865 12VGU5.310X1AR6AUOSRAM	7.5W	6500K	760lm	665cd	50mm	46mm	43g	60°	4058075535459	4058075535466	10

Common Characteristics[3]

Type	Average lifetime[4]	Switching cycles (30s on, 30s off)	Casing material	Starting time	Warm up time for 95% light	Power factor
LED PERFORMANCE MR16 50	25,000 hrs	100,000	Glass	<0.5 s	<2ms	≥0.9

Type	Nominal current	Tc temperature max.[5]	CRI	Mercury max.	Standard deviation of color matching	Ambient temperature range
LED PERFORMANCE MR16 50	734 mA	≤110°C @ Ta 40°C	80@24°,36°,60°; 90@10°	0.0 mg	≤5 SDCM	–20..+40 °C

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[5] The Tc is defined as the highest permissible temperature which may occur on the outer surface of the LED lamp (in the indicated position) under normal operating conditions and at the rated voltage/current/power or the maximum of the rated voltage/current/power range (DIN EN 62031: 2009-01)

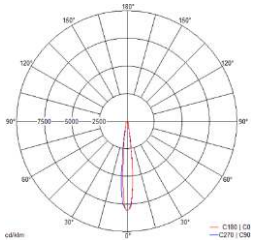
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Product Information

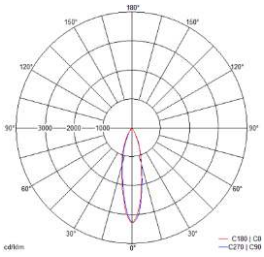
LED PERFORMANCE MR 16 50

Light Distribution

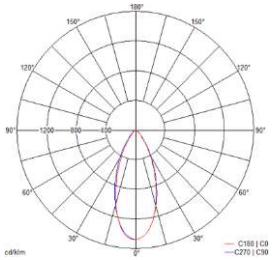
LED Performance MR1650 10D



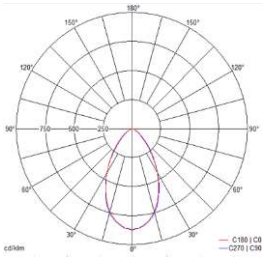
LED Performance MR1650 24D

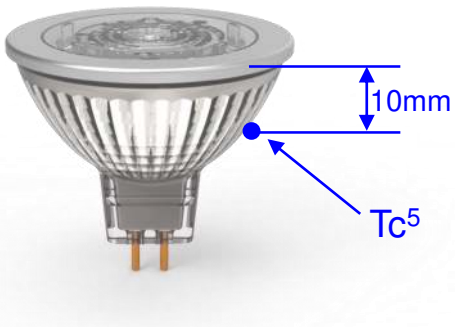


LED Performance MR1650 36D



LED Performance MR1650 60D





Disposal Information

- Lamps with WEEE sign can be returned at specific collection points.
- LED lamps have to be disposed as special waste.

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Product Information

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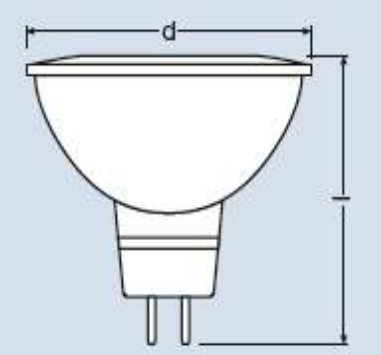
Application information

• Hospitality
• Restaurant
• Residential
• Art galleries and museum
• Homes

Lamp conformity

•IEC 55015 (Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment)
•IEC 60038 (IEC standard voltages)
•IEC 60061 (Lamp caps and holders)
•IEC 60357 (Tungsten halogen lamps (non vehicle) - Performance specifications)
•IEC 60432 (Incandescent lamps - Safety specifications)
•IEC 60630 (Maximum lamp outlines for incandescent lamps)
•IEC 60968 (Self-ballasted lamps for general lighting services - Safety requirements)
•IEC 60969 (Self-ballasted lamps for general lighting services - Performance requirements)
•EN 61000-2004/108/EC Electromagnetic compatibility
•IEC 61341 (Method of measurement of centre beam intensity and beam angle(s) of reflector lamps)
•IEC 61347-1 Lamp control gear - Safety requirements
•IEC 61547 (Equipment for general lighting purposes - EMC immunity requirements)
•EN 62471 Photo biological safety of lamps
•IEC 62612 (Self-ballasted LED-lamps for general lighting services > 50 V - Performance requirements)
•EN 874/2012 Energy labelling of electrical lamps and luminaires

Lamp Dimension



	MR16
D (mm)	50
l (mm)	46

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Product Information

LED PERFORMANCE MR 16 50

Compatibility performance with Transformer [6]

Legend

G / Good	GD / Good & Dark	FW / Flicker weakly	F / Flicker	FS / Flicker strongly	FD / Flicker & Dark	NGF/ Not Good as Flicker	NG / not Good as light	N/A / Not applicable

	Transformer Inf					Lamp Qty /Nominal low voltage 1time				Lamp Qty /Nominal low voltage 0.9times				Lamp Qty /Nominal high voltage 1.06times			
No	Brand	Model	Type	Voltage	Wattage	1	2	3	4	1	2	3	4	1	2	3	4
1	OSRAM	HTM 70/230-240	ET	230-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G
2	OSRAM	HTM 105/230-240	ET	230-240, 50-60Hz	35-105W	G	G	G	G	GD	G	G	G	G	G	G	G
3	OSRAM	ET-Parrot 70/220-240 I	ET APAC	220-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G
4	OSRAM	ET-A 60/220-240	ET APAC	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
5	OSRAM	ET-L 30/220-240	ET APAC	220-240, 50-60Hz	2-30W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
6	OSRAM	ET-REDBBACK 40VA/230-20	ET APAC	230-240, 50-60Hz	10-40W	G	G	G	G	G	G	G	G	G	G	G	G
7	OSRAM	ET-P 60/220-240 (Gen 2)	ET APAC	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
8	OSRAM	Hti DALI 105/230-240 DIM	ET APAC	230-240, 50-60Hz	35-105W	NG	G	G	G	NG	G	G	G	NG	G	G	G
9	OSRAM	IZ-A50/240	ET India	240,50-60Hz	50W	G	G	G	G	G	G	G	G	G	G	G	G
10	OSRAM	IZ-HALD50/220-240	ET APAC	220-240, 50-60Hz	20-50W	G	G	G	G	G	G	G	G	G	G	G	G
11	PHILIPS	ET-S 60 220-240	ET China	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
12	PHILIPS	ET-E 60 220-240	ET China	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
13	PHILIPS	ETK 50	ET India	240,50-60Hz	50W	G	G	G	G	G	G	G	G	G	G	G	G
14	HPM	MTETRADE65	ET Australia	220-240V,50Hz	65W	G	G	G	G	G	G	G	G	G	G	G	G
15	nVc	ET60DS	ET China	220,50Hz	35-60W	G	G	G	G	G	G	G	G	G	G	G	G
16	nVc	ET60E	ET China	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
17	OSRAM	ET Z60	ET APAC	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
18	OSRAM	ET-P 60/220-240 (Gen 2)	ET APAC	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
19	Tridonic	Speedy TE-0105 C101	ET Australia	230-240V,50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
20	PAK三雄极光	PAK-070601	ET China	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
21	Jindel	GET-0901	ET China	220,50-60Hz	105W	G	G	G	G	G	G	G	G	G	G	G	G
22	JOM嘉美	ET-60A	ET China	220,50Hz	20-60W	G	G	G	GD	G	G	G	GD	G	G	G	GD
23	Opple	DB602-220/12	ET China	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
24	Tridonic	ATCO Viper 60VA	ET Australia	230-240V,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
29	LEDVANCE	LVED VAL 12/220-240/12	DC ET LCN/LKC/LMY	220-240V, 50-60Hz	12W(Max)	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
30	LEDVANCE	LVED VAL 20/220-240/12 (K)	ET LCN/LVN/LHK/LME	220-240V, 50-60Hz	20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
31	LEDVANCE	LVED VAL 12/220-240/12VAC DIM	ASEAN/LME/LCN	220-240V, 50-60Hz	3-12W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
32	LEDVANCE	LVED VAL 40/230-240/12 CE (Q)	ET Australia	230-240V, 50Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
33	LEDVANCE	LVED VAL 10/220-240/12	DC ET LTW	100-240V, 50-60Hz	10W(Max)	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
34	PHILIPS	ET-E10 LED	ET China	220-240V, 50Hz	2-10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
35	NEX Star	LC1222W	ET Korea	220V, 60Hz	22W	G	GD	N/A	N/A	G	GD	N/A	N/A	G	GD	N/A	N/A
36	CITY	Ledmrcon 10n-he	ET Korea	220V, 60Hz	10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
37	LUSTER	DWL-12V8WCV	ET Korea	220V, 60Hz	8W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
38	LALUCE	LALUCE LIGHTING	ET Korea	220V, 60Hz	11W	FD	N/A	N/A	N/A	FD	N/A	N/A	N/A	FD	N/A	N/A	N/A
39	Neutron	ET-LED60-2	ET	220-2400V,50-60Hz	60W(max)	G	G	G	G	G	G	G	G	G	G	G	G

[6] Typical values.

The compatibility test 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. The test results were achieved by using the above mentioned LED-lamp types. The transformer with any of undesired compatibility shown in above report is not recommended. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

Subject to change without notice.

Always make sure to use the most recent release.

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Product Information

Connect with LVED VAL 12 220-240VAC DIM

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	Performance MR 16 50 10°24° 36°60°
Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
Undesired dimmability	
Not tested	EAN / Basic Code
	4058075549326/AC29158 4058075549340/AC29159 4058075535336/AC28740 4058075535350/AC28741 4058075540187/AC29155 4058075540200/AC29156 4058075535374/AC28742 4058075540224/AC29156 4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744 4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	Model	Power	Type		
TCL-Legrand	V8051-M	40-630W	L	38% - 0%	38% - 0%
Panasonic	WEG57813	40-300W	L	96% - 10%	96% - 10%
Schneider-Clipsal	KB31RD400	400W	L	99% - 0%	99% - 0%
Anam / Legrand	ASW3000H	1000W	T	77% - 0%	77% - 0%
Siemens	5UH8622-3NC01	25-400W	L	96% - 15%	96% - 15%
Schneider-Electric	C460	400W	L	96% - 0%	96% - 0%

[6] Typical values.

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Product Information

Connect with LVED VAL 12 220-240VAC DIM

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
HPM	CAT400T HPM	400W	T	82% - 0%	82% - 0%
Anam / Legrand	ASW3000H	1000W	T	92% - 0%	92% - 0%
Trader	Dimpala	400W	U	93% - 0%	93% - 0%
Clipsal	32ELEDM	400W	LED	0% - 0%	86% - 0%
Siemens	5UH8622-3NC01	25-400W	L	98% - 0%	98% - 0%
Schneider-Electric	C460	400W	L	97% - 0%	97% - 0%
Schneider-Electric	U201DST600	40-600VA	L	98% - 0%	98% - 0%
Clipsal	32E450LM	450W	L	98% - 15%	98% - 15%
Honyar	KT250	15-250W	L	97% - 0%	97% - 0%
Schneider-Electric	40600 RL	40-600W	L	95% - 0%	95% - 0%
Step	E033	45-300W	L	93% - 0%	93% - 0%
Bticino	SAM5350	40-300W	L	93% - 0%	93% - 0%
Lutron	GXI-3104-T-CE-WH	2300W	T	29% - 0%	29% - 0%
HPM	CAT400L	400W	L	29% - 0%	59% - 0%
Panasonic	WMS549	40-400W	L	98% - 0%	98% - 0%
SAL	SDA450	450W	T	89% - 17%	89% - 17%
Siemens	5UH8122-3NC01	25-400W	L	98% - 0%	98% - 0%
Schneider-Clipsal	E8431EPD4	25-350W	L	77% 17%	77% 17%
MK branded	K1541 WHI	75-500W	T	23% 0%	53% 0%
Veto	VT-500	60-500W	T	24% 0%	54% 0%
DIGINET(GERARD)	MMDM/PB	400W	Push Button	93% 0%	93% 0%
Legrand	617030	600W	L	95% 0%	95% 0%
Panasonic	WEG 57912	40-200W	L	95% 8%	95% 8%
SR SANJOON	SRD-1000	1000W	L	93% 0%	93% 0%
JIN HEUNG ELECTRIC	JH-922473	1000W	L	93% 0%	93% 0%
Dynalite	DMC810GL	12 channels 10A	L	29% 0%	29% 0%

[6] Typical values.

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Product Information

Connect with ET L30 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	Performance MR 16 50 10°24° 36°60°
Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
Undesired dimmability	
Not tested	EAN / Basic Code
	4058075549326/AC29158 4058075549340/AC29159 4058075535336/AC28740 4058075535350/AC28741 4058075540187/AC29155 4058075540200/AC29156 4058075535374/AC28742 4058075540224/AC29156 4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744 4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
TCL-Legrand	V8051-M	40-630W	L	97% - 1%	97% - 1%
Panasonic	WEG57813	40-300W	L	55% - 4%	88% - 4%
LUMEX	LOADSMART	500VA	L	99% - 0%	99% - 0%
Schneider-Clipsal	KB31RD400	400W	L	96% - 1%	96% - 1%
Clipsal	32E450UDM	450W	T	96% - 1%	96% - 1%

[6] Typical values.

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LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

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Product Information

Connect with ET L30 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%) | **Limited Dimming Range (dim down to >20%)** | **Undesired Dimmability**

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
Schneider-Electric	U201DST600	40-600VA	L	96% - 6%	96% - 6%
Honyar	KT250	15-250W	L	99% - 5%	99% - 5%
Schneider-Electric	40600 RL	40-600W	L	99% - 6%	99% - 6%
Step	E033	45-300W	L	98% - 0%	98% - 0%
Bticino	SAM5350	40-300W	L	97% - 0%	97% - 0%
Lutron	GXI-3104-T-CE-WH	2300W	T	30% - 0%	30% - 0%
Panasonic	WMS549	40-400W	L	97% - 0%	97% - 0%
Siemens	5UH8122-3NC01	25-400W	L	98% - 6%	98% - 6%
Schneider-Clipsal	E8431EPD4	25-350W	L	98% - 6%	98% - 6%
MK branded	K1541 WHI	75-500W	T	99% - 0%	99% - 0%
Veto	VT-500	60-500W	T	98% - 0%	98% - 0%
Legrand	617030	600W	L	98% - 3%	98% - 3%
Panasonic	WEG 57912	40-200W	L	95% - 8%	95% - 8%
SR SANJOON	SRD-1000	1000W	L	93% - 0%	93% - 0%
JIN HEUNG ELECTRIC	JH-922473	1000W	L	93% - 0%	93% - 0%
Dynalite	DMC810GL	12 channels 10A	L	86% - 0%	93% - 0%

[6] Typical values.

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Product Information

Connect with ET A60 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	Performance MR 16 50 10°24° 36°60°
Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
Undesired dimmability	
Not tested	EAN / Basic Code
	4058075549326/AC29158 4058075549340/AC29159 4058075535336/AC28740 4058075535350/AC28741 4058075540187/AC29155 4058075540200/AC29156 4058075535374/AC28742 4058075540224/AC29156 4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744 4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
Clipsal	E30 (32V500M)	500VA	L	96% - 0%	96% - 0%
TCL-Legrand	V8051-M	40-630W	L	96% - 0%	96% - 0%
Panasonic	WEG57813	40-300W	L	53% - 0%	53% - 0%
LUMEX	LOADSMART	500VA	L	88% - 0%	88% - 0%
Schneider-Clipsal	KB31RD400	400W	L	93% - 0%	93% - 0%
Clipsal	32E450UDM	450W	T	91% - 0%	91% - 0%
HPM	CAT400T HPM	400W	T	87% - 0%	87% - 0%

[6] Typical values.

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Product Information

Connect with ET A60 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%) | **Limited Dimming Range (dim down to >20%)** | **Undesired Dimmability**

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
Anam / Legrand	ASW3000H	1000W	T	95% - 0%	95% - 0%
Trader	Dimpala	400W	U	98% - 0%	98% - 0%
Clipsal	32ELEDM	400W	LED	89% - 0%	89% - 0%
Siemens	5UH8622-3NC01	25-400W	L	93% - 0%	93% - 0%
Schneider-Electric	C460	400W	L	95% - 0%	95% - 0%
Schneider-Electric	U201DST600	40-600VA	L	86% - 0%	86% - 0%
Clipsal	32E450LM	450W	L	94% - 0%	94% - 0%
Honyar	KT250	15-250W	L	80% - 0%	80% - 0%
Schneider-Electric	40600 RL	40-600W	L	97% - 0%	97% - 0%
Step	E033	45-300W	L	86% - 1%	86% - 1%
Bticino	SAM5350	40-300W	L	96% - 0%	96% - 0%
Lutron	GXI-3104-T-CE-WH	2300W	T	28% - 0%	28% - 0%
HPM	CAT400L	400W	L	96% - 0%	96% - 0%
Panasonic	WMS549	40-400W	L	96% - 0%	96% - 0%
SAL	SDA450	450W	T	98% - 0%	98% - 0%
Siemens	5UH8122-3NC01	25-400W	L	97% 0%	97% 0%
Schneider-Clipsal	E8431EPD4	25-350W	L	76% 0%	93% 0%
MK branded	K1541 WHI	75-500W	T	8% 0%	72% 0%
Veto	VT-500	60-500W	T	17% 0%	84% 0%
Shuttle	SDIM-T-LED 500W	500W	T	100% 0%	100% 0%
Shuttle	SDIMR-T-LED 500W	500W	T	99% 1%	99% 1%
Shuttle	SDIM-T-LED 125W	125W	T	96% 0%	96% 0%
DIGINET(GERARD)	MMDM/PB	400W	Push Button	0% 0%	0% 0%
Legrand	617030	600W	L	98% 0%	98% 0%
Panasonic	WEG 57912	40-200W	L	95% 8%	95% 8%
SR SANJOON	SRD-1000	1000W	L	93% 0%	93% 0%
JIN HEUNG ELECTRIC	JH-922473	1000W	L	93% 0%	93% 0%
Dynalite	DMC810GL	12 channels 10A	L	29% 0%	29% 0%

[6] Typical values.

The compatibility test 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. The test results were achieved by using the above mentioned LED-lamp types. The transformer with any of undesired compatibility shown in above report is not recommended. LEDVANCE 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, or when using other LED lamp types.

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Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

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Product Information

Connect with LVED VAL 40 230-240 12 CE (Q)

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	
	Very good dimmability with indicated number of lamps (dimming range greater than 75%)
	Limited dimmability with indicated number of lamps (dimming range smaler than 75%)
	Undesired dimmability
	Not tested

Performance MR 16 50
10°24° 36°60°



EAN / Basic Code

4058075549326/AC29158
4058075549340/AC29159
4058075535336/AC28740
4058075535350/AC28741
4058075540187/AC29155
4058075540200/AC29156
4058075535374/AC28742
4058075540224/AC29156
4058075535398/AC28742
4058075535411/AC28743
4058075535435/AC28744
4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
LUMEX	LOADSMART	500VA	L	99% - 5%	73% - 5%
Clipsal	32E450UDM	450W	T	99% - 12%	99% - 12%
HPM	CAT400T HPM	400W	T	98% - 6%	98% - 6%
Trader	Dimpala	400W	U	98% - 0%	98% - 0%
Clipsal	32ELEDM	400W	LED	97% - 0%	97% - 0%
Clipsal	32E450LM	450W	L	98% - 0%	98% - 0%
HPM	CAT400L	400W	L	98% - 15%	98% - 15%
SAL	SDA450	450W	T	99% - 16%	99% - 16%
DIGINET(GERARD)	MMDM/PB	400W	Push	98% - 0%	98% - 0%

[6] Typical values.

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LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

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Product Information

Connect with ET E60 LP Philips

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	Performance MR 16 50 10°24° 36°60°
Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
Undesired dimmability	
Not tested	EAN / Basic Code
	4058075549326/AC29158 4058075549340/AC29159 4058075535336/AC28740 4058075535350/AC28741 4058075540187/AC29155 4058075540200/AC29156 4058075535374/AC28742 4058075540224/AC29156 4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744 4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
Schneider-Clipsal	KB31RD400	400W	L	96% - 0%	96% - 0%
MK branded	K1541 WHI	75-500W	T	63% - 0%	63% - 0%
Veto	VT-500	60-500W	T	77% - 0%	77% - 0%
Legrand	617030	600W	L	100% - 0%	100% - 0%

[6] Typical values.

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LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

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Product Information

Connect with Redback40 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	
	Very good dimmability with indicated number of lamps (dimming range greater than 75%)
	Limited dimmability with indicated number of lamps (dimming range smaler than 75%)
	Undesired dimmability
	Not tested

Performance MR 16 50
10°24° 36°60°



EAN / Basic Code

4058075549326/AC29158
4058075549340/AC29159
4058075535336/AC28740
4058075535350/AC28741
4058075540187/AC29155
4058075540200/AC29156
4058075535374/AC28742
4058075540224/AC29156
4058075535398/AC28742
4058075535411/AC28743
4058075535435/AC28744
4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
LUMEX	LOADSMART	500VA	L	98% - 0%	98% - 0%
Clipsal	32E450UDM	450W	T	98% - 0%	98% - 0%
HPM	CAT400T HPM	400W	T	98% - 0%	98% - 0%
Trader	Dimpala	400W	U	98% - 0%	98% - 0%
Clipsal	32ELEDM	400W	LED	96% - 0%	96% - 0%
Clipsal	32E450LM	450W	L	68% - 0%	68% - 0%
HPM	CAT400L	400W	L	94% - 14%	94% - 14%
SAL	SDA450	450W	T	97% - 0%	97% - 0%
DIGINET(GERARD)	MMDM/PB	400W	Push	97% - 0%	97% - 0%

[6] Typical values.

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Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

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Product Information

Connect with HTM 105 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	Performance MR 16 50 10°24° 36°60°
Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
Undesired dimmability	
Not tested	EAN / Basic Code
	4058075549326/AC29158 4058075549340/AC29159 4058075535336/AC28740 4058075535350/AC28741 4058075540187/AC29155 4058075540200/AC29156 4058075535374/AC28742 4058075540224/AC29156 4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744 4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
Shuttle	SDIM-T-LED 500W	500W	T	88% - 0%	88% - 0%
Shuttle	SDIMR-T-LED 500W	500W	T	88% - 0%	88% - 0%
Shuttle	SDIM-T-LED 125W	125W	T	91% - 0%	91% - 0%
OSRAM	Hti DALI 315/230-	35-105W	Hti	92% - 0%	91% - 0%

[6] Typical values.

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Product Information

Connect with HTM 70 APAC

LED PERFORMANCE MR 16 50

Compatibility performance with dimmer [6] (Single lamp & Four lamps)

Legend **APM dimmer**

L/Leading edge dimmer **T**/trailing edge dimmer **U**/Universal Dimmer

Very Good Dimmability With Wide Dimming Range (dim down to ≤ 20%)	Limited Dimming Range (dim down to >20%)	Undesired Dimmability

Legend	Performance MR 16 50 10°24° 36°60°
Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
Undesired dimmability	
Not tested	EAN / Basic Code
	4058075549326/AC29158 4058075549340/AC29159 4058075535336/AC28740 4058075535350/AC28741 4058075540187/AC29155 4058075540200/AC29156 4058075535374/AC28742 4058075540224/AC29156 4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744 4058075535459/AC28745

Dimmer				Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Power**	**Type**		
Shuttle	SDIM-T-LED 500W	500W	T	96% - 0%	96% - 0%
Shuttle	SDIMR-T-LED 500W	500W	T	96% - 0%	96% - 0%
Shuttle	SDIM-T-LED 125W	125W	T	91% - 0%	92% - 0%
OSRAM	Hti DALI 315/230-	35-105W	Hti	91% - 0%	91% - 0%

[6] Typical values.

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Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

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