

# LED PERFORMANCE MR 16 50

We bring innovation to light!

Product licensee of trademark OSRAM in general lighting









### LED PERFORMANCE MR 16 50



#### Product Overview<sup>1</sup>

Model Name	Basic Code	Wattage	Input Voltage	ССТ	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<sup>2</sup>

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.

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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.



### LED PERFORMANCE MR 16 50

Ordering Guide											
Product	Wattage	ССТ	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<sup>3</sup>

Туре	Average lifetime <sup>4</sup>	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
Туре	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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<sup>&</sup>lt;sup>5</sup> 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)



### LED PERFORMANCE MR 16 50

#### **Light Distribution**

#### LED Performance MR1650 10D



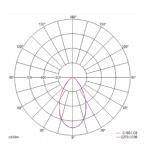
#### LED Performance MR1650 36D

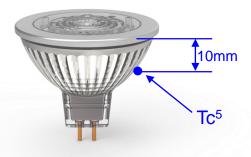


#### LED Performance MR1650 24D



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.
- <sup>3</sup> 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.
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### LED PERFORMANCE MR 16 50

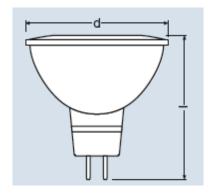
#### **Application information**

- 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
I (mm)	46



### LED PERFORMANCE MR 16 50

#### Compatibility performance with Transformer <sup>6</sup>

Legend																	
G / Go	ood GD / Gr	ood & Dark FW / Flicker weakly	F / Flicker FS / Flicke	r strongly FD / Flicker &	Dark NGF/	Not G	ood a	s Flicke	r NG	/no	t Good	l as ligh	rt	N/A	/Nota	pplicat	ole
	Transformer Inf					Lar	Lamp Qty /Nominal lovoltage 1time			w Lamp Qty /Nominal low voltage 0.9times				Lamp Qty /Nominal hig voltage 1.06times			
No	Brand	Model	Туре	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/Α
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
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
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
19	Tridonic	Speedy TE-0105 C101	ET Australia	230-240V.50-60Hz	35-105W	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
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	G	GD	_	G		GD
23	Opple	DB602-220/12	ET China	220.50Hz	20-60W	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)		N/A	N/A	N/A	G	N/A	N/A	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
31	LEDVANCE	LVED VAL 12/220-240/12VAC DIM	ASEAN/LME/LCN	220-240V. 50-60Hz	3-12W		N/A	N/A	N/A	)	N/A		N/A	)			NΑ
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		NΑ
33	LEDVANCE	LVED VAL 10/220-240/12	DC ET LTW	100-240V, 50-60Hz	10W (Max)			N/A	N/A	G	N/A	N/A	N/A		N/A		NΑ
34	PHILIPS	ET-E10 LED	ET China	220-240V, 50Hz	2-10W		N/A	N/A	N/A			N/A	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

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.

<sup>&</sup>lt;sup>6</sup> Typical values.



Connect with LVED VAL 12 220-240VAC DIM

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend	APM dimmer				
L/Leading edge dim	mer	<b>T/</b> trailing ed	dge dimmer		<b>U</b> /Universal Dimmer
	mmability With Wide e (dim down to ≤ 20%)	Limited Dimming Ra	ange (dim down to >20%	Unde	esired Dimmability
	Lege	end			rce MR 16 50 ° 36°60°
	lamps (dimming Limited dimmal	nability with indica grange greater tha bility with indicate grange smaler than nability	n 75%) d number of		
	Not tested		1	EAN / E	Basic Code
	Dimr	mer	4 4 4 4 4 4 4 4	058075549326/ 058075549340/ 058075535336// 058075540187/A 058075540200/ 058075540200/ 058075535374/A 058075535398// 058075535411/A 058075535411/A 058075535435/A 058075535459/A Dimming	AC29159 AC28741 AC29155 AC29156 AC29156 AC28742 AC29756 AC28742 C28743 AC28744 AC28745 Dimming
Brand	Model	Power	Туре	range 1 Lamp	range 4 Lamps
TCL-Legran	d V8051-M	40-630W	L	38% - 0%	38% - 0%
Panasonio	WEG57813	40-300W	L	96% - 10%	96% - 10%
Schneider-Cli				99% - 0%	99% - 0%
Anam / Legra		1000W	· · · · · · · · · · · · · · · · · · ·	77% - 0%	77% - 0%
Siemens	5UH8622-3NC	<u>-</u>		96% - 15%	96% - 15%
Schneider-Ele	ctric C460	400W	L	96% - 0%	96% - 0%

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Connect with LVED VAL 12 220-240VAC DIM

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM dimmer

Very Good Dimmabili Dimming Range (dim o		mited Dimming Range (	<mark>%)</mark>	Undes	ired Dimm	ability	
	Dimmer			Dim	ıming	Dimr	ning
				ra	nge	ran	ge
Brand	Model	Power	Type	1 L	amp	4 Laı	mps
НРМ	CAT400T HPM	400W	Т	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	Т	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	Т	23%	0%	53%	0%
Veto	VT-500	60-500W	Т	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%

<sup>&</sup>lt;sup>6</sup> 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

Subject to change without notice.



Connect with ET L30 APAC

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend A	APM dimmer				
L/Leading edge dimm	ner	<b>T/</b> trailing ed	ge dimmer		<b>U</b> /Universal Dimmer
	mability With Wide (dim down to ≤ 20%)	Limited Dimming Ra	nge (dim down to >20°	<mark>%)                                    </mark>	desired Dimmability
	Lege	end			ance MR 16 50 24° 36°60°
	Very good dimm	nability with indicat	ed number of		
	lamps (dimming	g range greater thai	า 75%)	Con	
	Limited dimma	bility with indicated	d number of	The	
	lamps (dimming	g range smaler thar	75%)		ALL III
	Undesired dimr				
	Not tested		1		/ Basic Code
				405807554932	
				405807554934 4058075535336	
				4058075535350	
				4058075540187	
				405807554020	0/AC29156
				4058075535374	AC28742
				405807554022	
				4058075535398	
				4058075535411	
				4058075535435 4058075535459	
	Dim	mer		Dimming	Dimming
D !	M - 1-1	D	T	range	range
Brand	Model	Power	Туре	1 Lamp	4 Lamps
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-Clip	sal KB31RD400	400W	L	96% - 1%	96% - 1%
Clipsal	32E450UDN	450W	Т	96% - 1%	96% - 1%

<sup>&</sup>lt;sup>6</sup> Typical values.

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

Subject to change without notice.



Connect with ET L30 APAC

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM dimmer

Very Good Dimmabil Dimming Range (dim		imited Dimming Range (c	<mark>)%)</mark>	Undesired Dimmability			
	Dimmer			Dim	ming	Dimm	ing
					range		ge
Brand	Model	Power	Type	1 La	amp	np 4 Lamp	
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	Т	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	Т	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%

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

Subject to change without notice.

<sup>&</sup>lt;sup>6</sup> Typical values.



Connect with ET A60 APAC

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend	APM di	mmer							
<b>L/</b> Leading edge d	dimmer			<b>T/</b> trailing ed	ge dimmer		ι	<b>J</b> /Universal	Dimmer
		ty With Wide lown to ≤ 20%)	Limited D	imming Rai	nge (dim down to >2	0%)	Undes	ired Dimm	ability
		Lege	nd			P	Performan	ce MR 16	50
							10°24°	36°60°	
		Very good dimm	ability wi	th indicat	ted number of				
		lamps (dimming	range gre	eater thai	า 75%)		CHARLE		
		Limited dimmab	ility with	indicate	d number of	j. 1	This	1111	
		lamps (dimming	range sm	naler thar	75%)				
		Undesired dimm	a hility		198				
		Ondesired diffili	lability				Carrie	ii ii	
		Not tested							
		Not tested					EAN / Ba	asic Code	
							)75549326/A		
							)75549340/A		
							)75535336/A )75535350/A		
							)75540187/A(	-	
						1	75540200/A		
							75535374/A		
						40580	75540224/A	C29156	
						40580	75535398/A	C28742	
							)75535411/AC		
						<u> </u>	75535435/A		
							)75535459/A mming	Dimr	ning
		Dimn	ner						ŭ
Brand	d	Model		Power	Type	r	range	ran	~
						_	Lamp	4 Laı	•
Clipsa		E30 (32V500M	· .	500VA	L	_	5 - 0%	96% -	0%
TCL-Legr		V8051-M	<u>-</u>	10-630W	L		5 - 0%	96% -	0%
Panaso		WEG57813		10-300W	L	_	- 0%	53% -	0%
LUME		LOADSMART		500VA	L	88%	5 - 0%	88% -	0%
Schneider-	Clipsal	KB31RD400		400W	L	93%	5 - 0%	93% -	0%
Clipsa	al	32E450UDM		450W	T	91%	5 - 0%	91% -	0%
HPM	1	CAT400T HPM	1	400W	Т	87%	5 - 0%	87% -	0%

<sup>&</sup>lt;sup>6</sup> Typical values.

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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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Connect with ET A60 APAC

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM dimmer

Very Good Dimmabili Dimming Range (dim d		mited Dimming Range (	<mark>%)</mark>	Undes	ired Dimma	bility	
	Dimmer			Dim	ming	Dimm	ing
		_	_	range		rang	ge
Brand	Model	Power	Туре	1 La	amp	4 Lan	nps
Anam / Legrand	ASW3000H	1000W	Т	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	Т	17%	0%	84%	0%
Shuttle	SDIM-T-LED 500W	500W	Т	100%	0%	100%	0%
Shuttle	SDIMR-T-LED 500W	500W	Т	99%	1%	99%	1%
Shuttle	SDIM-T-LED 125W	125W	Т	96%	0%	96%	0%
DIGINET(GERARD)	MMDM/PB	400W	<b>Push Button</b>	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%

<sup>&</sup>lt;sup>6</sup> Typical values.

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

Subject to change without notice.



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

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM d	immer								
L/Leading edge dimmer		<b>T/</b> trailing e	dge dimmer	ı	<b>U</b> /Universal Dimme	r			
Very Good Dimmabil Dimming Range (dim		Limited Dimming Ra	ange (dim down to >20%	<mark>%) Undes</mark>	sired Dimmability				
	Lege	end		Performance MR 16 50 10°24° 36°60°					
	Vary good dimm	nability with indica	atod number of	10°24	36.60				
	. •	•							
	limited dimming	grange greater the bility with indicate	an 75%)	Comme					
				MILLER	11111				
	lamps (dimming	g range smaler tha	in 75%)	All I	Ш				
	Undesired dimr	mability			H				
	Not tested		362						
	Not tested				asic Code				
				4058075549326/ <i>F</i>					
				4058075549340/ <i>F</i> 4058075535336/ <i>P</i>					
				4058075535350/A 40580755353536/A					
				40580755333330/A 4058075540187/A					
				4058075540200/ <i>F</i>					
				4058075535374/A					
			,	4058075540224/	AC29156				
				4058075535398/A	C28742				
			,	4058075535411/A	C28743				
				4058075535435/A					
				4058075535459/A					
	Dim	mer		Dimming	Dimming				
		_	_	range	range				
Brand	Model	Power	Туре	1 Lamp	4 Lamps				
LUMEX	LOADSMART	500VA	L	99% - 5%	73% - 5%				
Clipsal	32E450UDN	1 450W	T	99% - 12%	99% - 12%				
HPM	CAT400T HPN	√ 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%				

<sup>&</sup>lt;sup>6</sup> Typical values.

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

Subject to change without notice.



Connect with ET E60 LP Philips

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM o	limmer							
L/Leading edge dimmer  T/trailing edge dimmer			immer	<b>U</b> /Universal Dimmer				
Very Good Dimmabi Dimming Range (dim		Limited Dimming Range	ning Range (dim down to >20%) Undesired Dimmability					
Legend			Per	formanc 10°24°	e MR 16	50		
	Very good dimmability with indicated number of				10 24	30 00		
lamps (dimming range greater than 75%) Limited dimmability with indicated number of lamps (dimming range smaler than 75%)				(				
	Undesired dimm	nability				H		
Not tested				EAN / Basic Code				
				4058075549326/AC29158				
					4058075549340/AC29159 4058075535336/AC28740			
					4058075535336/AC28740 4058075535350/AC28741			
					4058075540187/AC29155			
						4058075540200/AC29156		
				4058075535374/AC28742				
				4058075540224/AC29156				
				4058075	535398/AC	C28742		
				4058075	535411/AC	28743		
				4058075	535435/AC	228744		
					535459/AC		_	
Dimmer				Dimr	Ŭ	Dimm	Ŭ	
Brand	Model	Power	Туре	rar	_	ran	_	
				1 La		4 Lan		
Schneider-Clipsal	KB31RD400	400W	L	96% -		96% -	0%	
MK branded	K1541 WHI	75-500W	Т	63% -		63% -	0%	
Veto	VT-500	60-500W	Т	77% -	0%	77% -	0%	
Legrand	617030	600W	L	100% -	0%	100% -	0%	

<sup>&</sup>lt;sup>6</sup> Typical values.

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Subject to change without notice.



Connect with Redback40 APAC

### LED PERFORMANCE MR 16 50

APM dimmer

Legend

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM d	ımmer							
L/Leading edge dimmer		<b>T/</b> trailing edge	dimmer U/Universal Dimmer					
Very Good Dimmabil Dimming Range (dim		Limited Dimming Rang	ge (dim down to >20	0%) Undes	ired 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				COMPAND )				
	lamps (dimming	range smaler than	75%)					
Undesired dimmability								
Not tested				EAN / Basic Code				
				4058075549326/A				
				4058075549340/A				
				4058075535336/A 4058075535350/A				
				4058075540187/A				
				4058075540200/A				
				4058075535374/A				
				4058075540224/A	C29156			
				4058075535398/AC28742 4058075535411/AC28743 4058075535435/AC28744				
				4058075535459/AC28745  Dimming Dimming				
Dimmer			J J					
Brand	Model	Power	Type	range	range			
				1 Lamp	4 Lamps			
LUMEX	LOADSMART	500VA	L	98% - 0%	98% - 0%			
Clipsal	32E450UDM	450W	T	98% - 0%	98% - 0%			
HPM	CAT400T HPM	-	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	Т	97% - 0%	97% - 0%			
DIGINET(GERARD)	MMDM/PB	400W	Push	97% - 0%	97% - 0%			

<sup>&</sup>lt;sup>6</sup> Typical values.

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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.

**LED PERFORMANCE MR 16 50** 



Connect with HTM 105 APAC

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend APM	M dimmer						
L/Leading edge dimmer		T/trailing edge dimmer			<b>U</b> /Universal Dimmer		
Very Good Dimma Dimming Range (di		Limited Dimming Range	e (dim down to >20	wn to >20%) Undesired Dimmabilit			bility
	Legend			Performance MR 16 50 10°24° 36°60°			
	lamps (dimming ra Limited dimmabil	bility with indicate ange greater than 7 ity with indicated r ange smaler than 7 bility	75%) number of				
Not tested					EAN / Ba	asic Code	
				4058075: 4058075: 4058075: 4058075: 4058075: 4058075: 4058075: 4058075: 4058075: 4058075:	549326/A 549340/A 535336/A 535350/A 540187/A 540200/A 535374/A 535374/A 535398/A 535411/A 535435/A 535459/A	C29159 C28740 C28741 C29155 C29156 C28742 C29156 C28742 C28743 C28744 C28744	
Dimmer				ming	Dimm	Ŭ	
Brand	Model	Power	Туре	rar 1 La	_	rang 4 Lan	
Shuttle	SDIM-T-LED 500W	/ 500W	Т	88% -	0%	88% -	0%
Shuttle	SDIMR-T-LED 500\	<i>N</i> 500W	Т	88% -	0%	88% -	0%
Shuttle	SDIM-T-LED 125W	/ 125W	Т	91% -	0%	91% -	0%
OSRAM	Hti DALI 315/230	- 35-105W	Hti	92% -	0%	91% -	0%

<sup>&</sup>lt;sup>6</sup> Typical values.

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

Subject to change without notice.



Connect with HTM 70 APAC

### LED PERFORMANCE MR 16 50

Compatibility performance with dimmer <sup>6</sup> (Single lamp & Four lamps)

Legend	APM dimmer					
L/Leading edge dimmer T/trailing edge dimmer			e dimmer	<b>U</b> /Universal Dimmer		
	immability With Wide ge (dim down to ≤ 20%)	Limited Dimming Ran	ited Dimming Range (dim down to >20%) Un			
Legend			Performance MR 16 50 10°24° 36°60°			
	Very good dimm	ability with indicat	ed number of			
lamps (dimming range greater than 75%) Limited dimmability with indicated number of					11111	
	lamps (dimming	range smaler than	75%)	With the second		
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 Dimming			
Brand	Model	Power Type	range	range		
Diana	ivi o de i	rower	Туре	1 Lamp	4 Lamps	
Shuttle	SDIM-T-LED 500	W 500W	Т	96% - 0%	96% - 0%	
Shuttle	SDIMR-T-LED 50	0W 500W	Т	96% - 0%	96% - 0%	
Shuttle	SDIM-T-LED 125	W 125W	Т	91% - 0%	92% - 0%	
OSRAM	Hti DALI 315/23	0- 35-105W	Hti	91% - 0%	91% - 0%	

<sup>&</sup>lt;sup>6</sup> Typical values.

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