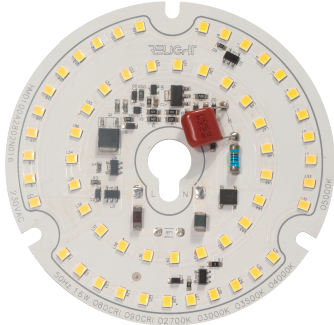


AC LED Light Engine Specification TB Round



- High total efficiency up to 120lm/W
- Various CCT available: 2700/3000/3500/4000/5000/5700/6500K
- CRI:80/90/95 options
- Macadam 3/5 steps color bin
- Solutions for Down light/Ceiling light
- AC line voltage 120/230V input directly
- Power factor higher than 0.95
- Low THDI:<18% • TRIAC dimmable

General Application



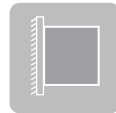
Down light



Ceiling light



Pendant light



Wall light

Applied standards



EN 62321
EMC: EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3
EMI: EN55015 EN61000-3-2 EN61000-3-3



EMS: EN61547
EMF: EN62493
LVD: EN62471 EN62031

Mechanical dimension (Unit: mm)

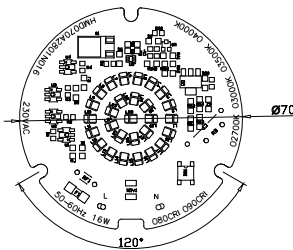


Fig1: RL-XMD070A series outline

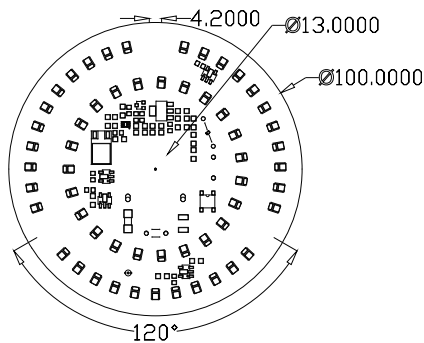


Fig2: RL-XMD100A series outline

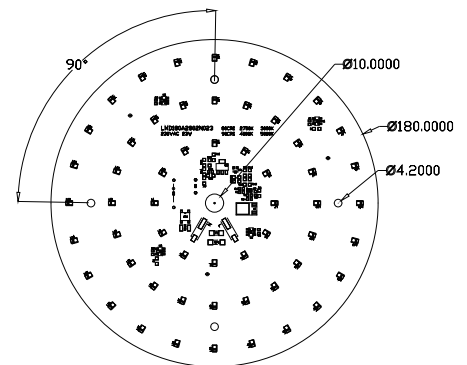


Fig3: RL-XMD180A series outline

General information

P/N	Size	Input	Power	PF	Flux	Efficiency	CCT	CRI	Dimming
	mm	Vac	W	-	Lm	Lm/W	K	-	-
RL-HMD70A2801H016-840TB	Ø70	230	16	0.95	1680	105	4000	80	TRIAC
RL-HMD100A2802H016-840TB	Ø100	230	16	0.95	1840	115	4000	80	TRIAC
RL-HMD180A2802H023-840TB	Ø180	230	23	0.95	2400	105	4000	80	TRIAC

Note: 1-Variety CCT available (2700-6500K) ; RL-XXXXXXXXXXXXXXX-840X (8-80CRI;40-4000K CCT)
2-Typical Optical-electronic parameters above @ Ta=25 °C

Selection guide

P/N	Size	Input	Power	PF	Flux	Efficiency	CCT	CRI	Dimming
	mm	Vac	W	-	Lm	Lm/W	K	-	-
RL-HMD70A2801H016-827TB	Ø70	230	16	>0.95	1520	95	2700	80	TRIAC
RL-HMD70A2801H016-830TB					1600	100	3000		
RL-HMD70A2801H016-840TB					1680	110	3500		
RL-HMD70A2801H016-850TB					1680	110	4000		
RL-LMD100A2802H016-827TB	Ø100	120	16	>0.95	1680	105	2700	80	TRIAC
RL-LMD100A2802H016-830TB					1760	110	3000		
RL-LMD100A2802H016-840TB					1840	115	4000		
RL-LMD100A2802H016-850TB					1840	115	5000		
RL-HMD100A2802H016-827TB	Ø100	230	16	>0.95	1680	105	2700	80	TRIAC
RL-HMD100A2802H016-830TB					1760	110	3000		
RL-HMD100A2802H016-840TB					1840	115	4000		
RL-HMD100A2802H016-850TB					1840	115	5000		
RL-LMD180A2802H016-827TB	Ø180	120	23	>0.95	2185	95	2700	80	TRIAC
RL-LMD180A2802H016-830TB					2254	98	3000		
RL-LMD180A2802H016-840TB					2415	105	4000		
RL-LMD180A2802H016-850TB					2415	105	5000		
RL-HMD180A2802H016-827TB	Ø180	230	23	>0.95	2185	95	2700	80	TRIAC
RL-HMD180A2802H016-830TB					2300	100	3000		
RL-HMD180A2802H016-840TB					2530	110	3500		
RL-HMD180A2802H016-850TB					2530	110	4000		

General information

Input	100-130Vac /200-240Vac
Frequency	50/60Hz
Rated power	Typical power (±10% tolerance)
PF	>0.95
Protection	IP20
Surge level	2.5KV
Hi-pot	1.5KVac
Storage temperature	-30-85 °C
Operation temperature	-30-80 °C (Ts ofled components)
Beam Angle	120 deg
Flicker index	<30% (RL-LMDxxxxxxx series only , according to North American T24 requirement)

EMC report

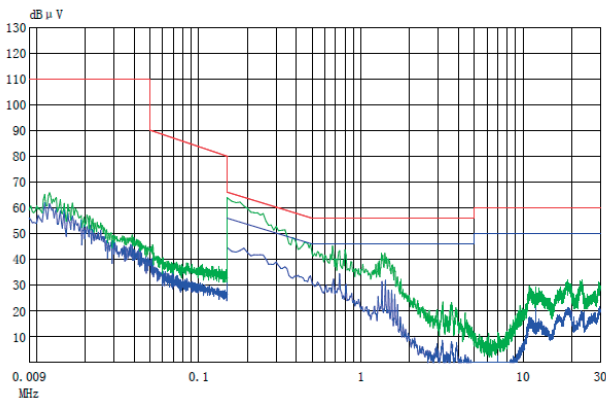


Fig4: RL-LMD series

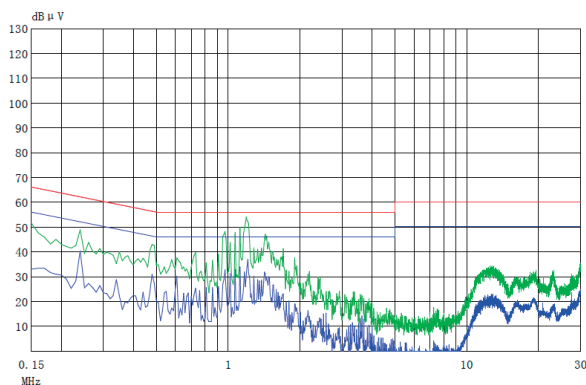
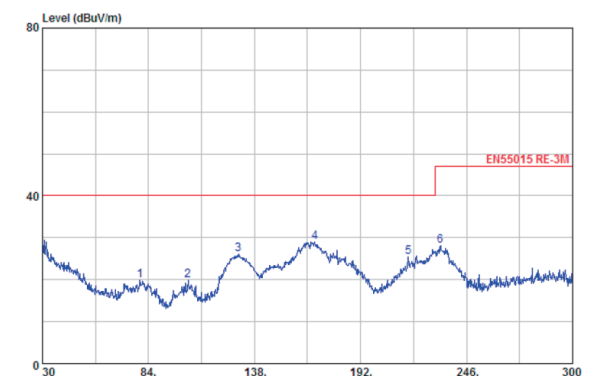
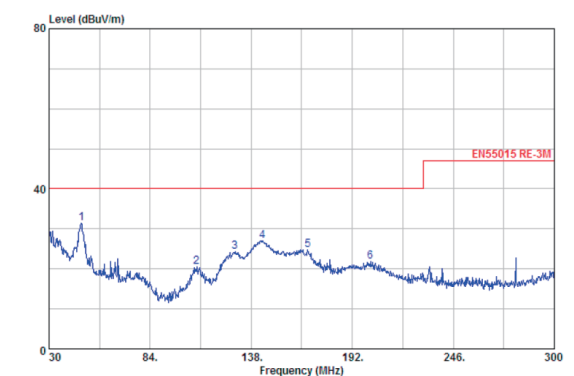
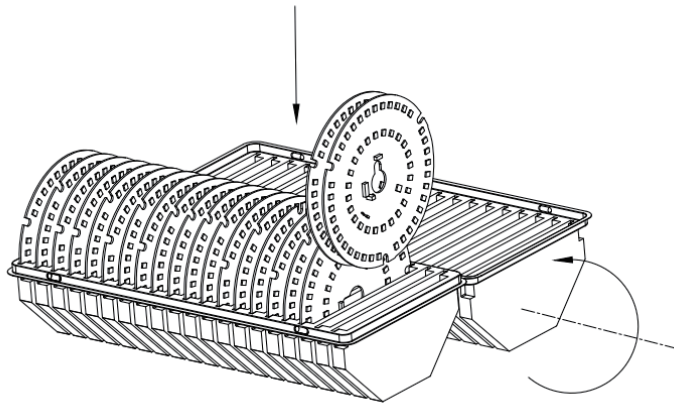


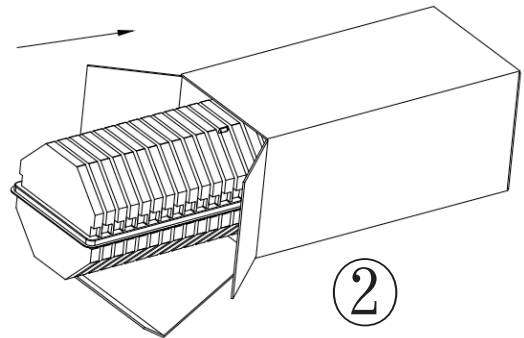
Fig5: RL-HMD series



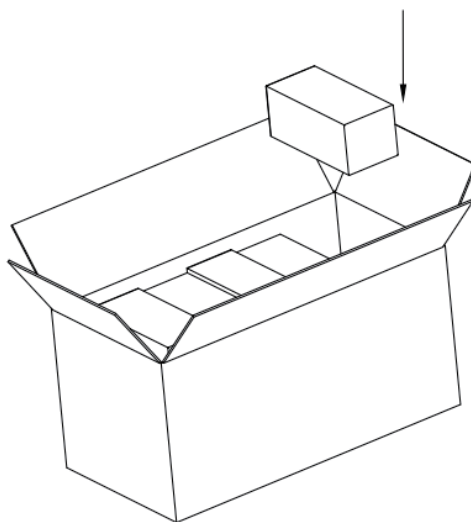
Package



①



②



③

Dimming range

P/N	Dimmer & Dimming level			Visible Flickering
	LUTRON CTCC-153P	CLIPSAL KB31RD400	CLIPSAL 630W	
RL-HMD70A2801H016-840TB		2.5%	5.1%	NO
RL-HMD100A2802H016-840TB		2.4%	5%	NO
RL-HMD180A2802H023-840TB		2.5%	5.2%	NO

Line regulation

P/N	Voltage-Vac Vs Power-Watt							
	108Vac	120Vac	132Vac	144Vac	207Vac	230Vac	253Vac	264Vac
RL-HMD70A2801H016-840TB					14.6	15.4	15.3	14.5
RL-HMD100A2802H016-840TB					16	16.8	16.6	15.9
RL-HMD180A2802H023-840TB					21.9	23.2	21.8	23.2



Safety Information

1. The LED module and all its components shall not be subjected to mechanical stress
2. Correct electrical polarity, otherwise module may be damaged
3. Ensure the power supply is suitable for the total load.
4. Electrostatic Discharge (ESD) precautions shall be incorporated when handling or installing the module.
5. Installation of LED modules shall refer to all applicable electrical and safety standards.
6. Suitable for luminaire of protection class 1, grounding is mandatory to comply with safety standards
7. The AC light engine needs to be mounted to a heat sink with a thermal interface material between them
8. It is better to use the AC led module with safety cover
9. Modules may be hot to touch. Use caution when handling.



Specialized
LED Strip Manufacturer

Shenzhen
Relight Technology Co.,Ltd

6th Floor, Building A, Guancheng Industrial Park, Gongming Town,
Guangming District, Shenzhen, China

Tel: 86 0755 3369 1713
Web: www.relight-tech.com
E-mail: Sales@relight-tech.com