

LED Replacement Lamps Tested in Litelab Luminaires



We have been testing LED replacement lamps in our luminaires since 2010. As LED technology has improved, we have removed obsolete lamps from the chart and tested new ones. For lamps not included here, we will be happy to test a customer-supplied sample. Please contact your sales representative.

LED Lamp	Collections					Lens OK?	Notes	Date Tested
	Museum	Jewelers'	Fundamentals	Basic / Recessed				
MR16								
Cree LM16-50-30K-17D	Y (a)	Y (a)	Y (a,d)	Y (a,d,x)		N	Fits well in fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. x) Tends to wedge into gimbal ring back-spring requiring a little extra effort to remove.	04/01/14
Cree MR16-50W-30K-40D	N	Y	Y (a,d)	Y (d)		N	Fits well in fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires.	01/14/15
Eliteco Lighting MR16 7W12V AC/DC 60 Hz 35 degree, 3000K	N	N	N	N			Noise problems when dimmed. Not approved for use in Litelab products.	06/01/16
Green Creative 7MR16G3DIM/830NF25	Y (a, d, y)	Y (a)	Y (a, d)	Y (a)		n	a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. y) Museum Line fixtures require ventilated back panel.	08/28/14
Megaman ER3308dDG-WFL	Y (f)	Y (f)	Y (f)	Y (f)			Fits all Litelab fixtures and works on all Litelab electronic transformers. No thermal testing done. f) Suitable for use in fully enclosed luminaires with some restrictions.	03/28/16
Philips 7MR16/S15 3000 DIM, product code 824919	Ventilated Fixture Required (a,y)	Y (a)	Y (a,d)	Y (a,d)		N	Fits all fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. y) Museum Line fixtures require ventilated back panel.	06/27/14
Philips 7MRX16/F25 3000 DIM AF Model code 9290002374A	Ventilated Fixture Required (a,d,y)	Y (a)	Y (a,d)	Y (a,d)		N	Fits all fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. y) Museum Line fixtures require ventilated back panel. Note lamp manufacturer's disclaimers on packaging.	06/01/16
Soraa MR-16-50-B01-12-930-10 (10 watt, magnetic accessories)	N	Y (a)	Y (a,d)	Y (a,d)	Y (w)		Fits all fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. w) Soraa accessories only.	04/01/14
Soraa MR-16-50-B01-12-927-25-2	Ventilated Fixture Required (a,y)	Y (a)	Y (a,d)	Y (a,d)	Y (w)		Fits all fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. w) Soraa accessories only. y) Museum Line fixtures require ventilated back panel.	04/01/14
Soraa MR-16-75-B01-12-830-36	Ventilated Fixture Required (a,y)	Y (a)	Y (a,d)	Y (a,d)	Y (w)		Fits all fixtures. a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. w) Soraa accessories only. y) Museum Line fixtures require ventilated back panel.	04/01/14
Soraa SM16-09-36D-930-3	N	Y (a)	N	Y (a)			a) Front airflow must not be restricted. Do not use with lens or other covering accessory. Manufacturer states that this lamp is not dimmable at 277 VAC input regardless of electronic transformer used in the fixture.	09/08/16
Soraa SM16-07-10D-930-03	Y (w)	Y (w)	Y (w)	Y (w)			Tested without cover glass on fixture. (w) Use only Soraa "Snap-Fit" accessories, lamp may not perform properly with other beam-shaping accessories. Manufacturer states that this lamp is not dimmable at 277 VAC input regardless of electronic transformer used in the fixture.	11/10/16
Soraa SM16C-CC1-xxD-xxx-xx	N	N	N	N			These are constant current lamps that require a true LED driver and will not function properly using an electronic transformer. DO NOT USE.	01/19/16
PAR30								
Msi ZPAR30S301512T3N Short neck PAR-30	Y	Y (n)	Y	Y			Short neck PAR30. Suitable for use in fully enclosed luminaires. n) Use short socket cup.	03/30/15
Osram Sylvania LED10PAR30/PRO/830/FL40/P3 LED10PAR30/PRO/827/FL40/P3 Short neck PAR30	Y	Y (a, n)	Y (a)	Y (a)			Short neck PAR30. Suitable for use in fully enclosed luminaires. a) Front airflow must not be restricted. Do not use with lens. n) Use short socket cup.	04/19/16

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	Museum	Jewelers'	Fundamentals	Basic / Recessed	Lens OK?		
Soraa SP30S-18-09D-830-03	Y (y)	Y (n)	Y	Y	Y	Fits all fixtures. n) Use short socket cup. y) Museum Line fixtures require ventilated back panel.	01/06/15
Soraa SP30S-18-25D-927-03	Y (y)	Y (n)	Y	Y	Y	Fits all fixtures. n) Use short socket cup. y) Museum Line fixtures require ventilated back panel.	10/16/14
TCP LED12P30SD30KNFL short neck PAR-30	Y	Y (n)	Y	Y		Short neck PAR30. Manufacturer indicates suitable for use in fully enclosed luminaires. n) Use short socket cup.	04/03/15
AR-111							
MasterLED Spot: 10 watt and 15 watt, 3000°, 1600ma, 40° and 24°	Y	Y	Y	Y	Y	Lamp available in Europe only as of test date.	01/12/15
Soraa SR111-12-50D-827-03, Brilliant series 50°, 2700°K	Y (q)	Y (q)	Y (q)	Y (q)		q) Fixture must be modified: remove socket, replace with fork terminals, remove socket retainer.	01/13/15
Soraa SR111-06-04D-930-03	Y (q)	Y (q)	Y (q)	Y (q)		q) Fixture must be modified: remove socket, replace with fork terminals, remove socket retainer.	08/01/16
Soraa SR111-18-25D-927-03, Vivid series 25°, 2700°K	Y (q)	Y (q)	Y (q, y)	Y (q)		q) Fixture must be modified: remove socket, replace with spade connectors, remove socket retainer. y) Fundamentals fixture back must be ventilated. Soraa indicates that a degradation of more than 10% light output from 5 minutes of operation until temperature stability is reached is unacceptable for their specifications and not covered under warranty. In a back-ventilated F03AR111 fixture tested with glass, degradation is 14%. Tested with open front, degradation is 9%. If the reduced output is acceptable, lamp may be used.	04/27/16
PAR38							
Accuity Acculamp # ALSP38 2000L DIM	Ventilated Fixture Required (y)	Y	Y	NA	Y	Checked for fit only, not thermal tested. Approved by manufacturer for use in fully enclosed luminaires. y) Litelab recommends that this be used with ventilated Museum fixture and no glass.	06/27/14
Ketra S38 18 watt (represents all beamspreads)	Ventilated Fixture Required (m,r)	Y	Y	NA		m) Use with standard M07 accessory holder in M67 ventilated fixture. Light emitting surface is the full PAR 38 diameter. r) Lens acceptable but not recommended.	01/21/15
Msi ZPAR38S301512T3N PAR-38	Y	Y	Y	NA		Suitable for fully enclosed luminaires.	03/30/15
Philips PAR-38 Airflux 19PAR38/F6 4000 DIM AF SO 6/1	Y (d,y)	Y	Y (a,d)	NA		a) Front airflow must not be restricted. Do not use with lens. d) Do not use in fully enclosed luminaires. y) Museum Line fixtures require ventilated back panel.	06/03/14
Philips 32PAR38/LED/830/F25/ND 120V, order code 9290012024	Y (a,y)	Y	Y (a)	NA		a) Front airflow must not be restricted. Do not use with lens. y) Museum Line fixtures require ventilated back panel. This is a heavy lamp and may be too heavy for some applications.	07/13/16
Solais LR38/25/30K/1450	Y (y)	Y	N	NA		y) Museum Line fixtures require ventilated back panel.	01/15/14
Solais high output PAR-38 LR38-25-27H-2300-BK LR38-25-27H-1450-BK LR38-10-27H-1250-BK	N	Y	N	NA	Y	Not suitable for any condition where rear of lamp is fully or partially enclosed. Test report available.	05/01/15
Soraa Vivid PAR38 SP38-18-25D-940-03	Y	Y	Y	NA	Y	Tested in fixture with glass front. Passes. No restrictions on use with old or new products.	11/10/17

The lamps in this chart have been tested for mechanical fit and thermal performance only, in accordance with data provided by the manufacturer at the time of the test. Electrical performance is based on a single representative fixture tested without dimming unless the dimmer is integral to the fixture.

Litelab makes no guarantees of performance of the tested lamps.

Use of lamps in fully enclosed fixtures may violate lamp manufacturers' warranty and UL Listings.

This chart covers only a single representative sample that has been tested in our lab.

Litelab does not test for compatibility with dimming equipment. Dimmers must be of the type specified for the fixture (Forward-phase/leading edge or reverse-phase/trailing edge/electronic low voltage) See fixture specification data. Consult the lamp manufacturer for dimmer compatibility data.

Some lamps may indicate a maximum number of lamps per circuit. Consult the lamp manufacturer for data.

Litelab makes no guarantee of dimmer compatibility.

Strobing, flickering, noise and similar problems are a result of incompatibility with the dimmer or other site-specific factors not under the control of Litelab. Consult the lamp and dimmer manufacturers directly in the event of such problems.