PHILIPS

LED

MR16 and MRX16 Dimmable

6.5-6.6W AirFlux

7W & 7W HO AirFlux

10W High Output

Dimmable accent lighting **with higher performance** LED retrofits

Philips LED MR16 and MRX16 Dimmable LED Lamps with smooth dimming provide ambient level light to illuminate hard to maintain applications.

High efficacy dimmable LED accent light

- 7W & 7W HO AirFlux lamps suitable for use in enclosed fixtures†
- 25,000-hr rated average life for Energy Star® qualified lamps
- 10W MRX16 saves 65 watts of energy when compared to a 75W halogen MR16‡
- 40,000-hr design life$^{\phi}$ for 7W & 7W HO AirFlux MRX16
- 30,000-hr design life$^{\phi}$ for 10W HO MRX16
- Provides quality white light and a crisp, uniform beam
- Optics engineered to eliminate multiple shadows
- Smooth dimming to 10% of full light levels♦

Easy to experience

- Select models feature dimming which creates a warm glow effect
- Warm glow effect transitions from 2700K to 2200K with dimming
- TransforMaxTM technology enables operation on a broad range of transformers
- Lowers maintenance costs by reducing re-lamp frequency
- Will not fade colors, avoids inventory spoilage
- 3-year limited warranty*

(†, ‡, ϕ, ♦, *, See back page for footnotes)

Philips LED MR16 and MRX16 Dimmable Lamps

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Model Number	Ordering Code	Volts	Description	Nom. Watts	Halogen Equivalent Watts[1]	Rated Avg Life (Hrs)[2]	Approx. Lumens	MBCP[3]	CRI	Color Temp (K)	MOL
Standard Halogen MR16 35W ENERGY STAR® Equivalent (6.5W AirFlux MR16)[4]												
454538	9290011278	6.5MR16/F25/2700-2200 DIM 12V	12	Dimming 6.5W 25° MR16 warm glow effect	6.5	35	25,000	410	1750	80	2700-2200	2
454546	9290011279	6.5MR16/F35/2700-2200 DIM 12V	12	Dimming 6.5W 35° MR16 warm glow effect	6.5	35	25,000	410	900	80	2700-2200	2
45351-4	9290011231	6.5MR16/F25 3000 DIM AF	12	Dimming 6.5W 35° 2700K MR16	6.5	35	25,000	450	900	81	2700	1.9
45760-6	9290011522	6.6MR16/F35 3000 DIM AF	12	Dimming 6.6W 35° 3000K MR16	6.6	35	25,000	420	960	81	3000	1.9
Standard Halogen MR16 30W ENERGY STAR® Equivalent (7W AirFlux MRX16)[3]												
43265-8	9290002627	7MRX16/S15 2700 DIM AF	12	Dimming 7W 15° 2700K MRX16	7	30	25,000	380	2650	80	2700	2.1
43266-6	9290002628	7MRX16/S15 3000 DIM AF	12	Dimming 7W 15° 3000K MRX16	7	30	25,000	420	2650	81	3000	2.1
43267-4	9290002629	7MRX16/S15 4000 DIM AF	12	Dimming 7W 15° 4000K MRX16	7	30	25,000	440	2750	83	4000	2.1
Standard Halogen MR16 35W ENERGY STAR® Equivalent (7W AirFlux MRX16)[3]												
43259-1	9290002373	7MRX16/F25 2700 DIM AF	12	Dimming 7W 25° 2700K MRX16	7	35	25,000	420	1950	82	2700	2.1
43260-9	9290002374	7MRX16/F25 3000 DIM AF	12	Dimming 7W 25° 3000K MRX16	7	35	25,000	440	1950	82	3000	2.1
43261-7	9290002375	7MRX16/F25 4000 DIM AF	12	Dimming 7W 25° 4000K MRX16	7	35	25,000	470	2050	82	4000	2.1
43262-5	9290002376	7MRX16/F35 2700 DIM AF	12	Dimming 7W 35º 2700K MRX16	7	35	25,000	420	1050	82	2700	2.1
43263-3	9290002377	7MRX16/F35 3000 DIM AF	12	Dimming 7W 35° 3000K MRX16	7	35	25,000	440	1050	82	3000	2.1
43264-1	9290002378	7MRX16/F35 4000 DIM AF	12	Dimming 7W 35° 4000K MRX16	7	35	25,000	470	1100	82	4000	2.1
Standard Halogen MR16 50W ENERGY STAR® Equivalent (7W HO AirFlux MRX16)[3]												
43362-3	9290002630	7MRX16/F25 2700 DIM AF HO	12	High Output Dimming 7W 25° 2700K MRX16	7	50	25,000	500	2400	80	2700	2.1
43363-1	9290002631	7MRX16/F25 3000 DIM AF HO	12	High Output Dimming 7W 25° 3000K MRX16	7	50	25,000	510	2500	81	3000	2.1
43364-9	9290002633	7MRX16/F30 2700 DIM AF HO	12	High Output Dimming 7W 30° 2700K MRX16	7	50	25,000	500	1300	83	2700	2.1
43365-6	9290002634	7MRX16/F30 3000 DIM AF HO	12	High Output Dimming 7W 30° 3000K MRX16	7	50	25,000	510	1350	80	3000	2.1
Standard Halogen MR16 75W ENERGY STAR® Equivalent (10W HO MRX16)[3]												
43239-3	9290002600	10MRX16/F25 2700 DIM HO	12	Dimming 10W 25° 2700K MRX16	10	75	25,000	640	3120	80	2700	2.1
43240-1	9290002601	10MRX16/F25 3000 DIM HO	12	Dimming 10W 25° 3000K MRX16	10	75	25,000	650	3360	80	3000	2.1
43241-9	9290002602	10MRX16/F25 4000 DIM HO	12	Dimming 10W 25° 4000K MRX16	10	75	25,000	650	3700	80	4000	2.1
43242-7	9290002603	10MRX16/F35 2700 DIM HO	12	Dimming 10W 35° 2700K MRX16	10	75	25,000	640	1880	80	2700	2.1
43243-5	9290002604	10MRX16/F35 3000 DIM HO	12	Dimming 10W 35° 3000K MRX16	10	75	25,000	650	2030	80	3000	2.1
43244-3	9290002605	10MRX16/F35 4000 DIM HO	12	Dimming 10W 35° 4000K MRX16	10	75	25,000	650	2260	80	4000	2.1

1. This wattage should be used to determine the maximum number of LED lamps for a given transformer, not the Nominal Watts.
2. Rated Average Life is based on engineering testing and probability analysis.
3. Based on photometric testing consistent with IES LM-79. Maximum Beam Candlepower.
4. All Philips LED MR16 equivalencies for light output are based upon the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark tool which can be found at: www.EnergyStar.gov/LEDbulbs, LED Light bulbs for Partners, Program Requirements DF, Pg 11.

This lamp is ENERGY STAR® Certified.

Light dims to a warm glow, similar to incandescent.

Footnotes from front:

† See technical application guide for details.

‡ Light output of the 10W MR16 Dimmable LED Lamp compares to the 75W Halogen MR16 based upon the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark tool which can be found at: EnergyStar.gov/LEDbulbs, LED Light Bulbs for Partners, Program Requirements PDF, Pg 11.

ϕ Design life is based on engineering data testing and probability analysis.

♦ Dimmable when using leading edge dimmers (see Philips website: www.philips.com/ledtechguide for compatible leading edge dimmers).

* For details see: www.philips.com/warranties.

Shipping Data (Subject to change without notice)

Product Number	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Cube (cu. Ft.)	Pallet Qty	SKUs per Layer	Layers High	SKU Dimensions (W x D x H) (In.)	Case Dimensions (W x D x H) (In.)	Pallet Dimensions (W x D x H) (In.)
45453-8	454531	454536	10	0.61	0.104	6110	470	13	1.77 x 1.77 x 2.17	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45454-6	454548	454543	10	0.61	0.104	6110	470	13	1.77 x 1.77 x 2.17	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45251-4	453510	453515	10	0.61	0.104	6110	470	13	1.77 x 1.77 x 2.17	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45350-6	453503	453508	10	0.61	0.104	6110	470	13	1.77 x 1.77 x 2.17	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
43265-8	432652	432657	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43266-6	432669	432664	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43267-4	432676	432671	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43259-1	432591	432596	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43260-9	432607	432602	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43261-7	432614	432619	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43262-5	432621	432626	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43263-3	432638	432633	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43264-1	432645	432640	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43362-3	433628	433623	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43363-1	433635	433630	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43364-9	433642	433647	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43365-6	433659	433654	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43239-3	432393	432398	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43240-1	432409	432404	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43241-9	432416	432411	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43242-7	432423	432428	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43243-5	432430	432435	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1
43244-3	432447	432442	10	1.3	0.098	3800	380	10	2.0 x 2.0 x 2.76	4.5 x 10.6 x 3.5	39.4 x 47.2 x 41.1

Energy Saving Solution

Estimated Lighting Costs Using a Standard 75W MR16 Halogen

Present Wattage		75	W
x Annual Operating Hours		4,000	hrs
	=	300,000	watt-hours
÷1,000	=	300	kWh per year
x kWh rate of $0. 11	=	$33.00	per year
x 100 fixtures	=	$3,300.00	annual energy cost per space

Estimated Lighting Costs Using a Philips 10W MR16 LED Lamp

Present Wattage		10	W
x Annual Operating Hours		4,000	hrs
	=	40,000	watt-hours
÷1,000	=	40	kWh per year
x kWh rate of $0. 11	=	$4.40	per year
x 100 fixtures	=	$440.00	annual energy cost per space
Total Estimated Annual Savings◊	=	$2,860.00	

◊ Based on 100 lamps per space operating at 4,000 hours per year.

This example shows an application of 100 lamps accenting a space, operating 4,000 hours per year at a cost of $0.11 per kWh. Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard 75W MR16 halogen lamps with Philips 10W MR16 Dimmable LED Lamps can provide significant energy cost savings of $2,860 per year! Potential savings from the reduction in HVAC costs as a result of using a low wattage lamp that emits less heat is an additional benefit not included in this example.

Recommended Fixtures

Fixture Type	Brand	Description	Model Number	Compatible Lamps	Link to fixture
Recessed Downlight	Lightolier	3 3/4" Low Voltage Frame Non-IC 120V	2000LV	1, 2, 3, 4	http://www.lightingproducts.philips.com/our-brands/lightolier-usa/accent-adjustable/lytecaster-mr16.html#cnb=2000LV
Track	Lightolier	Sof-Tech Low Voltage Open Ring MR16	6275BAL, 6275BBK, 6275BWH	1, 2, 3, 4	http://www.lightolier.com/products/index.jsp?CATREL_ID=15661&BLK=N&CAT_ID=10399
Landscape	Hadco	MR16 bullet	BL5016	2, 3	http://www.hadco.com/Hadco/Public/ProductDetail.aspx?pid=35

* Recommended fixtures have been tested with the subject lamp to ensure fit and lifetime in accordance with the lamp specifications.

1. 6.5W AirFlux MR16
2. 7W MRX16 AirFlux
3. 7W HO AirFlux MRX16
4. 10W HO MRX16

WARNINGS AND CAUTIONS

- Suitable for use with Class 1 and Class 2 circuits
- Suitable for use in damp locations.
- Not for use in totally enclosed luminaires.
- Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.

CAUTION: Risk of electric shock— do not use where directly exposed to water.

NOTES: This device complies with Part 18 of the FCC rule. This product may cause interference with other devices. If interference occurs, change the location of the products involved. This RFLD device complies with Canadian ICES-005.

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