

Accent lighting

Philips LED MR16 and MRX16 Dimmable LED Lamps provide industry leading flux, crisp beams and smooth dimming, while expanding available applications to include enclosed fixtures.

Features

- Most lamps suitable for use in enclosed fixtures*
- Available in a wide range of options
- Bright white light with uniform beam distribution
- Smooth dimming to 10% of full light levels**
- Contains no mercury
- Select models feature a warm glow dimming effect

Benefits

- Will not fade colors, avoids inventory spoilage
- Focus light where it's needed most
- Create contrast and depth
- Long life—reduced maintenance cost
- Low energy use and waste—better for the environment
- Excellent heat management

Applications

- Enclosed fixture compatible*
- Track and recessed luminaires
- Accent lighting in retail and hospitality spaces
- Difficult to reach and maintain applications

* Please see MR16 technical application guide for details

** Dimmable when using leading and trailing edge dimmers. See Philips Website (www.philips.com/ledtechguide) for compatible dimmers.





MR16 and MRX16 LED lamps



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

Product Number	Ordering Description	Nom. Watts	Bulb (W)	Base	Volts	Beam Angle	Life ¹ (hours)	Approx. Lumens ²	Approx. MBCP ^{2,3}	CRI	Color Temp. (Kelvin)	MOL (in.)	Key
Standard Halogen MR16 35W ENERGY STAR® Equivalent†													
45453-8	6.5MR16/F25/2700-2200 DIM 12V	6.5	MR16	GU5.3	12	25°	25,000	410	1750	80	2700-2200	1.9	A
45454-6	6.5MR16/F35/2700-2200 DIM 12V	6.5	MR16	GU5.3	12	35°	25,000	410	900	80	2700-2200	1.9	A
45478-5	6.5MR16/F25 3000 DIM AF	6.5	MR16	GU5.3	12	25°	25,000	460	1250	80	3000	1.9	A
45350-6	6.5MR16/F35 3000 DIM AF	6.5	MR16	GU5.3	12	35°	25,000	460	960	81	3000	1.9	A
Standard Halogen MR16 30W ENERGY STAR® Equivalent†													
45741-6	7MR16/S15 2700 DIM AF2	7	MR16	GU5.3	12	15°	40,000	400	2850	80	2700	2.0	B
45742-4	7MR16/S15 3000 DIM AF2	7	MR16	GU5.3	12	15°	40,000	420	2950	80	3000	2.0	B
45743-2	7MR16/S15 4000 DIM AF2	7	MR16	GU5.3	12	15°	40,000	440	3050	80	4000	2.0	B
Standard Halogen MR16 42W ENERGY STAR® Equivalent†													
45744-0	7MR16/F25 2700 DIM AF2	7	MR16	GU5.3	12	25°	40,000	420	2100	80	2700	2.0	B
45745-7	7MR16/F25 3000 DIM AF2	7	MR16	GU5.3	12	25°	40,000	440	2200	80	3000	2.0	B
45746-5	7MR16/F25 4000 DIM AF2	7	MR16	GU5.3	12	25°	40,000	460	2300	80	4000	2.0	B
45747-3	7MR16/F35 2700 DIM AF2	7	MR16	GU5.3	12	35°	40,000	420	1150	80	2700	2.0	B
45748-1	7MR16/F35 3000 DIM AF2	7	MR16	GU5.3	12	35°	40,000	440	1200	80	3000	2.0	B
45749-9	7MR16/F35 4000 DIM AF2	7	MR16	GU5.3	12	35°	40,000	460	1250	80	4000	2.0	B
Standard Halogen MR16 75W ENERGY STAR® Equivalent†													
45750-7	8.5MRX16/F25 2700 DIM AF	8.5	MRX16	GU5.3	12	25°	40,000	635	3100	80	2700	2.1	C
45751-5	8.5MRX16/F25 3000 DIM AF	8.5	MRX16	GU5.3	12	25°	40,000	660	3250	80	3000	2.1	C
45752-3	8.5MRX16/F25 4000 DIM AF	8.5	MRX16	GU5.3	12	25°	40,000	710	3350	80	4000	2.1	C
45753-1	8.5MRX16/F35 2700 DIM AF	8.5	MRX16	GU5.3	12	35°	40,000	635	1650	80	2700	2.1	C
45754-9	8.5MRX16/F35 3000 DIM AF	8.5	MRX16	GU5.3	12	35°	40,000	660	1700	80	3000	2.1	C
45755-6	8.5MRX16/F35 4000 DIM AF	8.5	MRX16	GU5.3	12	35°	40,000	710	1750	80	4000	2.1	C

1. Life is based on engineering testing and probability analysis.

2. Based on photometric testing consistent with IES LM-79.

3. Maximum Beam Candle Power.

☼ Light dims to a warm glow, similar to incandescent

■ ENERGY STAR® Certified LED Lamp.

† All Philips LED PAR, BR, and 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 PDF, Page 11. A-shape and decorative candles are calculated on lumen values, not the ENERGY STAR® Integral LED Lamp Center Beam Intensity Benchmark tool.

This example shows an application of 100 lamps accenting a space currently using standard 75W MR16 halogen lamps, operating 4,000 hours per year at a cost of \$0.11 per kWh.^A Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard 75W MR16 halogen lamps with Philips 8.5W LED MR16 dimmable lamps can provide significant energy cost savings of \$2,926.00 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.

Saving Solution		
Estimated Lighting Costs Using a...	Standard 75W MR16 Halogen Lamp	Philips 8.5W LED MR16 Lamp
Present Wattage	75 Watts	8.5 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 300,000 watt-hours	= 34,000 watt-hours
÷1,000 =	= 300 kWh per year	= 34 kWh per year
x kWh rate of \$0.11	= \$33.00 per year	= \$3.74 per year
x 100 lamps per space	= \$3,300.00 annual energy cost per space	= \$374.00 annual energy cost per space
	Total Estimated Annual Savings^B	= \$2,926.00

A) The 8.5W LED MR16 at 3,250 candela compared to the 75W halogen MR16 at 2,583 candela.

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

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.	Lamps/ SKU	SKUs/ 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.)
Standard Halogen MR16 35W ENERGY STAR® Equivalent												
45453-8	45453-1	45453-6	10	0.61	0.104	6110	1	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	45454-8	45454-3	10	0.61	0.104	6110	1	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
45478-5	45478-4	45478-9	10	0.61	0.104	6110	1	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	45350-3	45350-8	10	0.61	0.104	6110	1	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
Standard Halogen MR16 30W ENERGY STAR® Equivalent												
45741-6	45741-9	45741-4	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45742-4	45742-6	45742-1	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45743-2	45743-3	45744-5	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
Standard Halogen MR16 42W ENERGY STAR® Equivalent												
45744-0	45744-0	45745-2	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45745-7	45745-7	45746-9	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45746-5	45746-4	45747-6	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45747-3	45747-1	45748-3	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45748-1	45748-8	45749-0	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45749-9	45749-5	45749-0	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
Standard Halogen MR16 75W ENERGY STAR® Equivalent												
45750-7	45750-1	45750-6	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45751-5	45751-8	45751-3	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45752-3	45752-5	45752-0	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45753-1	45753-2	45753-7	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45754-9	45754-9	45754-4	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6
45755-6	45755-6	45755-1	10	1.35	0.06	6110	1	470	13	1.8 x 1.8 x 2.2	9.3 x 4.0 x 2.8	47.2 x 39.4 x 42.6

See bottom of page 51 for Warnings, Cautions and Instructions.