

Accent Lighting

Philips AR111 LED lamps delivers the high quality light in a perfect-fit size, while providing incredible energy savings.

A suitable retrofit solution for spot and general lighting applications in the hospitality and retail industry.

Superior Performance

- Delivers a brilliant visual effect with available CRI 90 and R9>50
- Anti-glare optical bridge increases visual comfort
- Best-in-class flux, intensity and beam quality
- Reflecting cup with V-groove prism array for high optical efficiency

LED Benefits

- Long life: up to 40,000-hour rated life
- Minimal color shift and stable flux output throughout lifetime
- No harmful UV radiation

True AR111 Retrofit

- Excellent compatibility with most traditional halogen transformers
- "Perfect fit" mechanical design fits most AR111 fixtures
- Optics designed to work with existing halogen lenses and beam shaping accessories



This energy saving example shows an application of 100 lamps in a space currently using 100W halogen AR111 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 halogen 100W AR111 lamps with Philips 20W LED AR111 lamps can provide significant energy cost savings of \$3,520.00 per year! Potential savings from the reduction in HVAC costs as a result of using a lower wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Halogen 100W AR111 Lamp	Philips 20W LED AR111 Lamp
Present Wattage	100 Watts	20 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 400,000 watt-hours	= 80,000 watt-hours
÷1,000 =	= 400 kWh per year	= 80 kWh per year
x kWh rate of \$0.11	= \$44.00 per year	= \$8.80 per year
x 100 lamps per space	= \$4,400.00 annual energy cost per space	= \$880 annual energy cost per space
	Total Estimated Annual Savings^B	= \$3,520.00

A) The 20W AR111 at 6600 candela compared to the 100W halogen AR111 at 4000 candela

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



AR111 LED lamps

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

Product Number	Ordering Description	Nom. Watts (W)	Bulb	Base	Volts	Beam Angle	Life ¹ (hours)	Approx. Lumens ²	Approx. MBCP ^{2,3}	CRI	Color Temp. (Kelvin)	MOL (in.)
Philips Halogen 100W Equivelent Dimmable Spot[†]												
45856-2	20AR111/LED/830/S15 DIM	20	AR111	GX53	12	15°	25,000	1240	8500	80	3000	2.5
Philips Halogen 75W Equivelent Dimmable Flood[†]												
45855-4	15AR111/LED/930/F25 DIM	15	AR111	GX53	12	25°	40,000	780	1660	90	3000	2.5
46014-7	15AR111/LED/927/F25/DIM	15	AR111	GX53	12	25°	40,000	740	3900	90	2700	2.5
Philips Halogen 100W Equivelent Dimmable Flood[†]												
45857-0	20AR111/LED/830/F25 DIM	20	AR111	GX53	12	25°	25,000	1280	6600	80	3000	2.5
46013-9	20AR111/LED/827/F25/DIM	20	AR111	GX53	12	25°	25,000	1240	5800	80	2700	2.5
Philips Halogen 75W Equivelent Dimmable Wide Flood[†]												
46015-4	15AR111/LED/927/F40/DIM	15	AR111	GX53	12	40°	40,000	740	1400	90	2700	2.5

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.

[†] Equivalence based on published candela values for halogen AR111 lamps of similar beam angles.

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.)
Philips Halogen 100W Equivelent Dimmable Spot												
45856-2	45856-0	45856-5	6	3.84	0.319	702	1	78	9	4.4 x 4.4 x 3.6	13.8 x 9.3 x 4.3	47.2 x 39.4 x 44.7
Philips Halogen 75W Equivelent Dimmable Flood												
45855-4	45855-3	45855-8	6	3.84	0.319	702	1	78	9	4.4 x 4.4 x 3.6	13.8 x 9.3 x 4.3	47.2 x 39.4 x 44.7
46014-7	46014-3	46014-8	6	3.84	0.319	702	1	78	9	4.4 x 4.4 x 3.6	13.8 x 9.3 x 4.3	47.2 x 39.4 x 44.7
Philips Halogen 100W Equivelent Dimmable Flood												
45857-0	45857-7	45857-2	6	3.84	0.319	702	1	78	9	4.4 x 4.4 x 3.6	13.8 x 9.3 x 4.3	47.2 x 39.4 x 44.7
46013-9	46013-6	46013-1	6	3.84	0.319	702	1	78	9	4.4 x 4.4 x 3.6	13.8 x 9.3 x 4.3	47.2 x 39.4 x 44.7
Philips Halogen 75W Equivelent Dimmable Wide Flood												
46015-4	46015-0	46015-5	6	3.84	0.319	702	1	78	9	4.4 x 4.4 x 3.6	13.8 x 9.3 x 4.3	47.2 x 39.4 x 44.7

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