ProLED®

LED LAMP CATALOG

Volume 1.1

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ProLED

About Halco Lighting Technologies

Established in 1974, Halco Lighting Technologies is a leader in lamp, luminaire and ballast solutions. We are dedicated to providing you with the latest in energy efficient technologies; illustrated by our ProLED luminaires and full offering of ProLED lamps. Halco's luminaire offering features indoor recessed solutions such as ProLED Panel, Volumetric Panel and Downlight Retrofit Series luminaires. Our broad selection of long life, energy efficient ProLED lamps is available in popular shapes with an array of color temperatures and beam spreads. Halco is your single source for LED lamps for replacement and retrofit applications.

Service

We measure our success by one standard - your satisfaction. Halco carries deep inventory of a broad SKU offering to assure we have what you need when you need it. With strategically located warehouses in Atlanta, Carlstadt, Cleveland, Houston, Los Angeles and Phoenix, orders placed by 2:00 PM local warehouse time ship the same day. Will-call and courier service is also available for your convenience.

Quality

Our in-house lighting laboratory allows us to perform a variety of testing services including photometric, light output, color metrics and electrical measurements, including IES LM-79 testing. This product testing facility operates under a quality management system and ensures continuous quality control and outstanding product performance.

Halco's Quality Assurance policy ensures we deliver on our commitment to your satisfaction. If our product does not perform according to specifications, rest assured we'll provide a replacement or credit.

Performance

ProLED luminaires and lamps are backed by a warranty you can rely on. Luminaires, Reflector, PAR, A-Shape, G25, Decorative, MR, PAR36 and IP65 Rated JC lamps are backed by a 5-Year Limited Warranty. ProLED 912, C7/C9 and standard JC lamps are backed by a 2-Year Limited Warranty.

ProLED

U.S. Department of Energy estimates LEDs offer the potential for cutting general lighting energy use nearly in half by 2030.

ENERGY STAR®

Halco is a proud ENERGY STAR® partner. ENERGY STAR® is a voluntary program by the U.S. Environmental Protection Agency that aims to educate and increase awareness of energy saving and environmentally friendly products. Halco boasts a portfolio of ENERGY STAR® qualified products, specifically in our ProLED and ProLume Compact Fluorescent product offerings.

The Design Lights Consortium®

The Design Lights Consortium (DLC) is intended to accelerate energy efficiency in the building sector through public policy, program strategies and education. The DLC promotes quality, performance and energy commercial sector lighting solutions. Halco ProLED luminaires and T8 Linear lamps are on the DLC Qualified Product List.

LED Lighting Facts®

Halco is a participating partner of the U.S. Department of Energy (DOE) LED Lighting Facts® program, which assures that the performance of LED lighting products is accurately represented. The program helps manage the adoption of the new technology by mandating the use of a label that verifies the product has been tested according to industry standard procedures and that those results are accurately presented. The DOE LED Lighting Facts® label identifies light output, wattage, efficacy, correlated color temperature (CCT) and color rendering index (CRI).

Halco also complies with Federal Trade Commission (FTC) Lighting Facts labeling regulations of medium base screw lamps. Similar to the DOE program, the FTC program establishes consistency among manufacturers so that consumers can easily identify LED product specifications. The FTC label requires lumen output, estimated annual energy cost, life expectancy, color temperature, wattage and mercury content, if applicable.

Halco's ProLED lamps feature an unrivaled combination of efficiency, long life and light quality, providing the best overall performance in LED technology.

ProLED Advantage

ProLED products utilize the highest quality components, including LEDs, precision manufactured optics, optimally engineered drivers and special heat sinks for superior thermal management.

Optics designed for precise beam control providing smooth illumination virtually identical to traditional sources

SPOT   NARROW FLOOD   FLOOD   WIDE FLOOD   OMNI

Achieve consistent lamp-to-lamp color through rigorous adherence to design and manufacturing specifications

2700K	3000K	4000K	5000K
WARM WHITE	BRIGHT WHITE		DAYLIGHT

Utilize a phosphor that creates a rich R-9 value to enhance reds and skin tones and produce high CRI values

Dimmable down to 5% of rated light output for flicker-free, reliable performance*

Optimal thermal management through the use of an engineered heat sink housing and quality componentry

*Visit www.halcolighting.com/ProLEDdim for a comprehensive Dimmer Compatibility List.

ProLED

Why Choose ProLED

Using LED retrofit or replacement lamps reduces total cost of ownership of the lighting system without sacrificing performance. ProLED lamps have a longer rated life than traditional sources while consuming less energy. ProLED lamps also produce the same quality of illumination as traditional light sources making them a popular choice for an easy lighting upgrade.

ProLED Payback

Advances in technology have allowed LED lamps to provide equivalent light output while consuming a fraction of the energy. To calculate energy savings of a lighting upgrade compare the wattage, the measure of energy consumed in order to power the lamp. The lower the wattage the greater the energy savings. For example, a 10W ProLED BR30 lamp will provide light output equivalent to a 65W Halogen reflector lamp and save as much as 85% in energy.

Operating Details		
Electricity Cost		$0.11 kWh
Annual Operating Hours		3650
Energy Analysis	**Existing**	**Retrofit**
Wattage Per Lamp	65W	10W
Annual Energy Costs	$26	$4
Annual Energy Savings		**85%**

Think Lumens

When evaluating energy efficient lamp options refer to the lamp's light output, which is measured in lumens. Lamps with relatively equivalent lumens and center beam candle power (CBCP) will provide similar illumination in the application. ProLED lamps are extremely efficient light sources. Efficacy is measured in lumens per watt (LPW). ProLED lamps feature high LPW versus Halogen and Incandescent lamps.

BR30

Incandescent		ProLED
65 Watts	70 60 50 40 30 20	68 LPW
9 LPW	10 0	10 Watts

Maintenance Free Operation

The life of a lamp impacts maintenance and relamping costs. The longer the life the fewer times the lamps need to be replaced, the fewer lamps that need to be purchased and the less time spent replacing lamps. Over the 40,000 hour useful life of (1) ProLED BR30 lamp, an Incandescent lamp (3,000 hr life) would need to be replaced 14 times!

Application Solutions

Halco's ProLED lamps are designed for optimal performance in a variety of applications. We have identified the most commonly used applications specific to each lamp type, designated by the strength of shading in the chart.

	ENERGY STAR	Commercial	Conference Room	Hospitality	Education	Healthcare	Retail	Residential	Landscape
PL Direct		✓	✓	✓	✓	✓	✓		
Linear Direct T8		✓	✓	✓	✓	✓	✓	✓	
Linear Bypass T8		✓	✓	✓	✓	✓	✓	✓	
Downlight Replaceable Trim	✓	✓	✓	✓	✓	✓	✓	✓	
HID Retrofit		✓						✓	✓
PAR38	✓	✓	✓	✓	✓	✓	✓	✓	✓
PAR30L, PAR30S	✓	✓	✓	✓	✓	✓	✓	✓	✓
PAR20, PAR16	✓	✓	✓	✓	✓	✓	✓	✓	✓
Commercial MR16	✓	✓	✓	✓	✓	✓	✓	✓	
BR40, BR30	✓	✓	✓	✓	✓	✓	✓	✓	
R20	✓	✓	✓	✓	✓	✓	✓	✓	
A-Shape Omnidirectional	✓	✓	✓	✓	✓	✓	✓	✓	
A-Shape Non-Dimmable		✓		✓	✓	✓	✓	✓	
Globe	✓	✓		✓		✓	✓	✓	
Chandelier	✓	✓		✓		✓	✓	✓	
Sign Lamps		✓					✓		
Decorative Chandelier				✓				✓	
Indoor PAR36		✓		✓	✓	✓	✓		
MR11		✓		✓	✓	✓	✓	✓	✓
MR16		✓	✓	✓	✓	✓	✓	✓	✓
Black MR16		✓					✓	✓	✓
Outdoor PAR36		✓							✓
JC		✓			✓				✓
R12 GBF & 1383		✓		✓	✓	✓	✓		
3155									✓

ProLED®

How to Read Ordering Information

Wattage Equivalent
Typical wattage of Incandescent or Halogen lamp of comparable light output

Product Number
Use this product number when placing an order

Color Temp.
A term used to describe the color of a light source and is expressed in degrees Kelvin (K)

Life Rated at L70

Watt
Indicates the power consumed by the lamp during operation

Beam Spread
Indicates the beam angle or beam spread of a bulb, measured in degrees

Description
Color description or other important information

Lumens
Represents average light output

ENERGY STAR®
Designates qualified product

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
15 Watt	Med.	82038	PAR38FL15/927/W/LED	Flood, White, IP65 Rated	120	2700K	90	950	4300	25,000 ■	6/24	45°	5.08"	90
15 Watt	Med.	82039	PAR38FL15/930/W/LED	Flood, White, IP65 Rated	120	3000K	90	1000	4600	25,000 ■	6/24	45°	5.08"	90
15 Watt	Med.	82040	PAR38FL15/940/W/LED	Flood, White, IP65 Rated	120	4000K	90	1020	4730	25,000 ■	6/24	45°	5.08"	90
15 Watt	Med.	82041	PAR38FL15/950/W/LED	Flood, White, IP65 Rated	120	5000K	90	1050	4800	25,000 ■	6/24	45°	5.08"	90

Base
Indicates base type

MOL Indicates maximum overall length in inches

Product Code
Abbreviated product description can also be used for ordering

Volts
Indicates the product's design voltage of operation

CBCP
Luminous intensity at the center of the beam

Package Quantity
Indicates minimum sell quantity and smallest shipping carton

CRI
Lamps ability to render an object's color

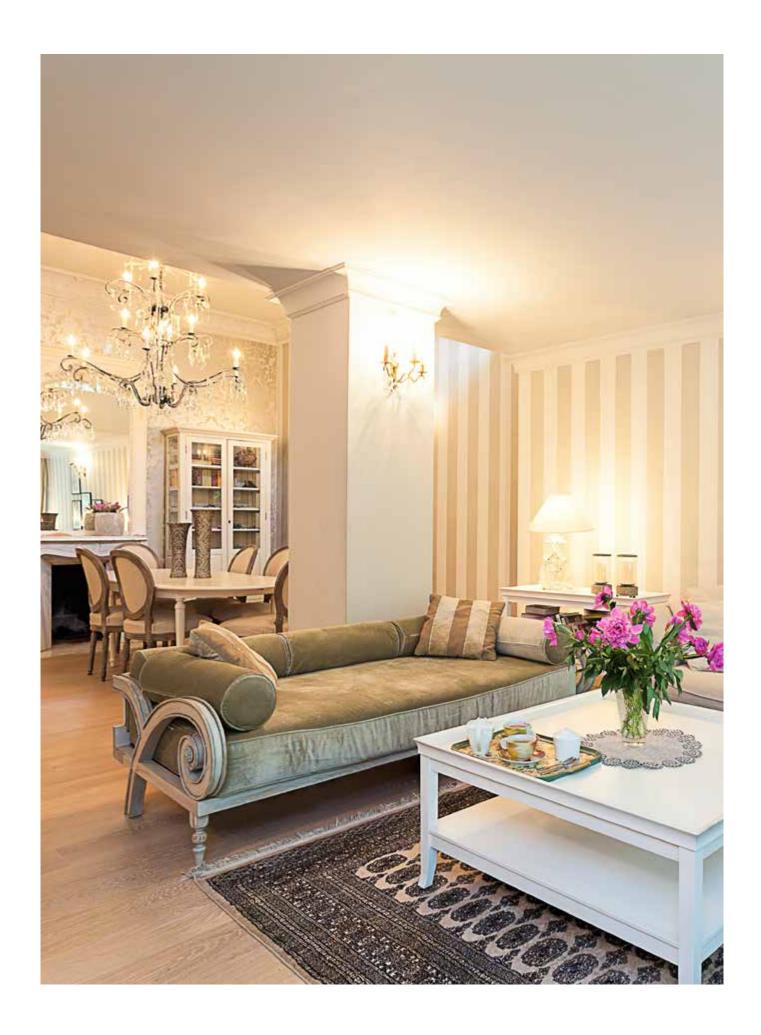**ProLED®**

■ ProLED Downlight Replaceable Trim Series

Specifications

– Six Designer Trim Options With Easy Twist Technology™
– 9 Watt (4") and 12 Watt (5"-6") Replace Up To 65 Watt Incandescent (82% Energy Savings), 18W LED Retrofit Replaces 120W Incandescent
– 5"- 6" downlight includes 2 additional friction clips for recessed cans that do not use torsion springs
– E26 socket adapter assembly included, GU24 adapter available
– All CCT versions are Title 24 Compliant; 2700K, 3000K and 4000K are CEC Listed
– 2700K and 3000K lamps' performance meets California Quality Lamp Specifications
– UL Classified for damp locations; RoHS Compliant
– Low profile designs are compatible with 4", 5" or 6" recessed downlight luminaires
– Torsion springs and friction clips adjust to snugly fit in either 5" or 6" recessed cans
– Dimmable to 5% for design flexibility and increased energy savings
– Umbilical E26 socket assembly included, GU24 adapter available
– Replaceable Designer Trim Options Available Separately

5.40" / 137.2 mm
3.12" / 79.2 mm
4"

7.48" / 190.0 mm
3.60" / 91.4 mm
5"-6"

Markets & Applications

Residential | Commercial | Education | Retail | Healthcare | Hospitality | Conference Room

TITLE 24 | 5 Limited Warranty | ENERGY STAR | CLASSIFIED c UL us

Ordering Information

Watt	Product #	Product Code	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	Luminaire Size	Wattage Equivalent
9 Watt	99924	DL4FR9/927/RT/LED	120	2700K	90	600	50,000	1/12	4"	50
9 Watt	99925	DL4FR9/930/RT/LED	120	3000K	90	600	50,000	1/12	4"	50
9 Watt	99926	DL4FR9/940/RT/LED	120	4000K	90	600	50,000	1/12	4"	50
9 Watt	99927	DL4FR9/950/RT/LED	120	5000K	90	600	50,000	1/12	4"	50
12 Watt	99920	DL6FR12/927/RT/LED	120	2700K	90	800	50,000	1/6	5" - 6"	65
12 Watt	99921	DL6FR12/930/RT/LED	120	3000K	90	800	50,000	1/6	5" - 6"	65
12 Watt	99922	DL6FR12/940/RT/LED	120	4000K	90	800	50,000	1/6	5" - 6"	65
12 Watt	99923	DL6FR12/950/RT/LED	120	5000K	90	800	50,000	1/6	5" - 6"	65
18 Watt	99942	DL6FR18/927/RT/LED	120	2700K	90	1200	50,000	1/6	5" - 6"	120
18 Watt	99943	DL6FR18/930/RT/LED	120	3000K	90	1200	50,000	1/6	5" - 6"	120
18 Watt	99940	DL6FR18/940/RT/LED	120	4000K	90	1200	50,000	1/6	5" - 6"	120
18 Watt	99941	DL6FR18/950/RT/LED	120	5000K	90	1200	50,000	1/6	5" - 6"	120

* Useful Life is defined as the point in time at which the LED will maintain at least 70% of its initial lumens. The LED will continue to operate past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
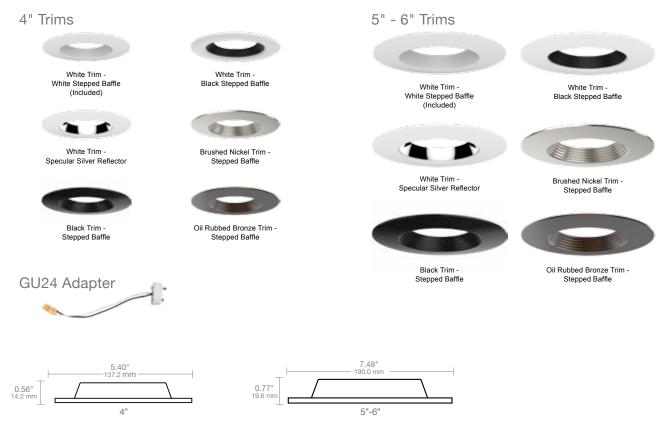Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˅
■ Energy Costs¥

$500
$400
$300
$200
$100
$0

65W BR40 | 12W ProLED

˅Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED®

■ ProLED Downlight Replaceable Trim Series

Trim Specifications

– Low profile designs are compatible with 4" and 5-6" Downlight Retrofit Replaceable Trim Series products
– Complement your existing décor with easy-to-install trim options
– Trims install and lock securely with twist on and off tabs, no tape or adhesive required
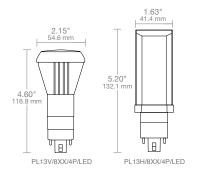– Available in six popular finishes to complement any decor

4" Trims

White Trim - White Stepped Baffle (Included)

White Trim - Black Stepped Baffle

White Trim - Specular Silver Reflector

Brushed Nickel Trim - Stepped Baffle

Black Trim - Stepped Baffle

Oil Rubbed Bronze Trim - Stepped Baffle

5" - 6" Trims

White Trim - White Stepped Baffle (Included)

White Trim - Black Stepped Baffle

White Trim - Specular Silver Reflector

Brushed Nickel Trim - Stepped Baffle

Black Trim - Stepped Baffle

Oil Rubbed Bronze Trim - Stepped Baffle

GU24 Adapter

5.40" / 137.2 mm
0.56" / 14.2 mm
4"

7.48" / 190.0 mm
0.77" / 19.6 mm
5"-6"

Trim Ordering Information

Product #	Product Code	Description	Finish	Pkg. Qty.	Baffle Height	Diameter	Weight
99934	DL4/WB	White Trim - Black Stepped Baffle	White/Black	1/24	0.56"	5.40"	0.10 lbs.
99935	DL4/WSS	White Trim - Specular Silver Baffle	White/Silver	1/24	0.56"	5.40"	0.10 lbs.
99936	DL4/BN	Brushed Nickel Trim - Stepped Baffle	Brushed Nickel	1/24	0.56"	5.40"	0.10 lbs.
99937	DL4/ORB	Oil Rubbed Bronze Trim - Stepped Baffle	Oil Rubbed Bronze	1/24	0.56"	5.40"	0.10 lbs.
99939	DL4/BLK	Black Trim - Stepped Baffle	Black	1/24	0.56"	5.40"	0.10 lbs.
99930	DL6/WB	White Trim - Black Stepped Baffle	White/Black	1/24	0.77"	7.48"	0.15 lbs.
99931	DL6/WSS	White Trim - Specular Silver Baffle	White/Silver	1/24	0.77"	7.48"	0.15 lbs.
99932	DL6/BN	Brushed Nickel Trim - Stepped Baffle	Brushed Nickel	1/24	0.77"	7.48"	0.15 lbs.
99933	DL6/ORB	Oil Rubbed Bronze Trim - Stepped Baffle	Oil Rubbed Bronze	1/24	0.77"	7.48"	0.15 lbs.
99938	DL6/BLK	Black Trim - Stepped Baffle	Black	1/24	0.77"	7.48"	0.15 lbs.
91003	ADP/DL/GU24/LED	GU24 Socket Adapter		1	-	-	-

Trims are not compatible with legacy ProLED® Downlight models: 80855, 80858 and 80871.

ProLED®

■ ProLED PL Direct Series

Specifications

– Dedicated horizontal and vertical orientation versions
  (horizontal features rotatable socket alignment)
– Lasts 5 times longer than CFL
– Electronic CFL ballast compatible
– 50,000 hour life resulting in lower maintenance costs over time
– Horizontal lamp base rotates for proper orientation in luminaire
– Works with existing 18W, 26W, 32W and 42W electronic CFL
  ballasts
– Mercury-free for safer operation and disposal
– RoHS Compliant
– Fits G24q and GX24q Sockets (26, 32, and 42W CFL)
– Instant-On
– Dimmable when used with a compatible dimming ballast (0-10V)
– -20C (-4F) to 45C (113F) operating temperatures
– UL classified 1598C Retrofit Kit

2.15"
54.6 mm

4.60"
116.8 mm

PL13V/8XX/4P/LED

1.63"
41.4 mm

5.20"
132.1 mm

PL13H/8XX/4P/LED

Markets & Applications

Commercial   Education   Retail   Healthcare   Hospitality   Conference Room

Ordering Information

Watt	Base	Product #	Product Code	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
	VERTICAL									
13 Watt	G24q/GX24q	81110	PL13V/827/4P/LED	2700K	82	1000	50,000	1/10	4.60"	26
13 Watt	G24q/GX24q	81111	PL13V/830/4P/LED	3000K	82	1000	50,000	1/10	4.60"	26
13 Watt	G24q/GX24q	81112	PL13V/835/4P/LED	3500K	82	1000	50,000	1/10	4.60"	26
13 Watt	G24q/GX24q	81113	PL13V/841/4P/LED	4100K	82	1000	50,000	1/10	4.60"	26
13 Watt	G24q/GX24q	81114	PL13V/850/4P/LED	5000K	82	1000	50,000	1/10	4.60"	26
	HORIZONTAL									
13 Watt	G24q/GX24q	81115	PL13H/827/4P/LED	2700K	82	1000	50,000	1/10	5.20"	26
13 Watt	G24q/GX24q	81116	PL13H/830/4P/LED	3000K	82	1000	50,000	1/10	5.20"	26
13 Watt	G24q/GX24q	81117	PL13H/835/4P/LED	3500K	82	1000	50,000	1/10	5.20"	26
13 Watt	G24q/GX24q	81118	PL13H/841/4P/LED	4100K	82	1000	50,000	1/10	5.20"	26
13 Watt	G24q/GX24q	81119	PL13H/850/4P/LED	5000K	82	1000	50,000	1/10	5.20"	26

* Useful Life is defined as the point in time at which the LED will maintain at least 70% of its initial lumens. The LED will continue to operate past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.

ProLED

Savings Comparison

Total Lifetime Costs

Maintenance Costs˘

Energy Costs¥

˘Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

■ ProLED Linear Direct T8 Series

NEW!

Specifications
– 48" T8 LED Tube with bi-pin base
– No rewiring of existing luminaire necessary
– Operates on electronic T8 fluorescent ballasts
– 100 Lumens Per Watt versus T8 Fluorescent's 90 LPW
– -4°F(-20°C) to 122°F(50°C) operating temperature range
– Instant-on, no flicker
– Frosted glass design
– UL Listed
– 50,000 hour rated life, up-to 2 times the life of standard Fluorescent
– Available in 3500K, 4000K and 5000K CCT
– Dimmable when used with a compatible dimming ballast (0-10V)
– CEE Listed Tier 2
– Conforms to requirements of NSF/ANSI standard 2-food equipment
– Acceptable for use in damp locations and enclosed luminaires
– 82 CRI
– Mercury-free for safer operation
– RoHS Compliant
– 5-Year Limited Warranty

DIRECT
BALLAST
COMPATIBLE

48.00"
1219.0 mm

1.00"
25.4 mm

Markets & Applications

Residential Commercial Office Retail Hospitality Healthcare

Ordering Information

Watt§	Base	Product #	Product Code	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	Beam Spread	MOL	THD	DLC® Qualified
17 Watt	G13	80880	T8FR17/835/DIR/LED	3500K	82	1800	50,000	1/25	270°	48"	<20%	Yes
17 Watt	G13	80881	T8FR17/840/DIR/LED	4000K	82	1800	50,000	1/25	270°	48"	<20%	Yes
17 Watt	G13	80882	T8FR17/850/DIR/LED	5000K	82	1800	50,000	1/25	270°	48"	<20%	Yes

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point but at decreased light levels.
Must be operated with an ambient luminaire temperature between -4°F(-20°C) and 122°F(50°C).
§ Specifications are based on use with normal ballast factor ballasts (0.88). For LBF and HBF ballast performance, see the chart below.
Please check the DLC qualified products List https://www.designlights.org/qpl for all qualified Halco products.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

32W Fluorescent   17W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 50,000 hour life.

Ballast Performance

Bare Lamp Wattage	System Wattage			Lumen Output		
	.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF
14.0	14.8	17.0	22.4	1560	1800	2280

ProLED®

NEW!

Specifications

– 48" T8 LED Tube with bi-pin base
– Single-end powered, operates on 120V - 277V line voltage range
– Reliable and efficient way to retrofit existing Linear Fluorescent luminaires with simple rewiring
– No external ballast or driver required
– Up-to 111 lumens per watt
– -4°F(-20°C) to 122°F(50°C) operating temperature range
– Instant-on, no flicker
– Frosted glass design
– UL Classified 1598C Retrofit Kit
– 50,000 hour rated life, up-to 2 times the life of standard Fluorescent
– Available in 3500K, 4000K and 5000K CCT
– Acceptable for use in damp locations and enclosed luminaires
– Conforms to requirements of NSF/ANSI standard 2-food equipment
– 80 CRI
– Mercury-free for safer operation
– RoHS Compliant
– 5-Year Limited Warranty

Markets & Applications

Residential   Commercial   Office   Retail   Healthcare   Hospitality

48.00"
1219.0 mm

1.00"
25.4 mm

Ordering Information

Watt	Base	Product #	Product Code	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	Beam Spread	MOL	THD	DLC® Qualified
15 Watt	G13	**80883**	**T8FR15/835/BYP/LED**	120-277	3500K	82	1800	50,000	1/25	270°	48"	<20%	Yes
15 Watt	G13	**80884**	**T8FR15/840/BYP/LED**	120-277	4000K	82	1800	50,000	1/25	270°	48"	<20%	Yes
15 Watt	G13	**80885**	**T8FR15/850/BYP/LED**	120-277	5000K	82	1800	50,000	1/25	270°	48"	<20%	Yes

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
Must be operated with an ambient luminaire temperature between -4°F(-20°C) and 122°F(50°C).
Please check the DLC qualified products List https://www.designlights.org/qpl for all qualified Halco products.

Warning

Halco ProLED® Linear Bypass T8 will not operate on a linear fluorescent ballast or with shunted lampholders. Please re-wire the luminaire as shown in the installation instructions included with the product and ensure non-shunted lampholders are installed in the luminaire before installing this product.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

$350
$300
$250
$200
$150
$100
$50
$0

32W Fluorescent   15W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 50,000 hour life.

ProLED HID Retrofit Series

NEW!

Specifications

– Acceptable for enclosed luminaires
– Replacement for HID high bay or post top applications
– Can be used in base up or base down position
– -22°F (-30°C) to 140°F (60°C) operating temperature range
– 120-277V input range (ballast must be bypassed)
– 50,000 hour life
– Available in 5000K CCT
– 82 CRI for quality and consistent color rendering
– UL Listed for damp locations
– RoHS Compliant
– 5-Year Limited Warranty

Markets & Applications
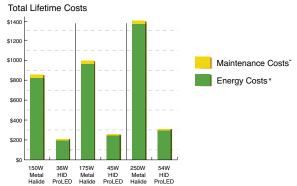
Residential   Commercial   Landscape

Lamp dimensions

2.75" 70.0 mm	3.65" 92.7 mm	3.65" 92.7 mm	3.65" 92.7 mm	3.65" 92.7 mm
6.73" 170.9 mm	8.90" 226.1 mm	10.10" 256.5 mm	9.49" 241.0 mm	10.67" 271.0 mm
20W E26	36W E26	45W, 54W E26	36W E39	45W, 54W E39

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent	DLC® Qualified
20 Watt	E26	80941	HID20/850/MV/LED	Omnidirectional	120-277	5000K	82	2100	50,000	1/12	6.73"	70	-
36 Watt	E26	80936	HID36/850/MV/LED	Omnidirectional	120-277	5000K	82	4200	50,000	1/12	8.90"	150	-
36 Watt	E39	80950	HID36/850/MV/E39/LED	Omnidirectional	120-277	5000K	82	4200	50,000	1/12	9.49"	150	Yes
45 Watt	E26	80937	HID45/850/MV/LED	Omnidirectional	120-277	5000K	82	5400	50,000	1/12	10.10"	175	-
45 Watt	E39	80951	HID45/850/MV/E39/LED	Omnidirectional	120-277	5000K	82	5400	50,000	1/12	10.67"	175	Yes
54 Watt	E26	80938	HID54/850/MV/LED	Omnidirectional	120-277	5000K	82	6200	50,000	1/12	10.10"	200	-
54 Watt	E39	80952	HID54/850/MV/E39/LED	Omnidirectional	120-277	5000K	82	6200	50,000	1/12	10.67"	200	Yes

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to operate past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
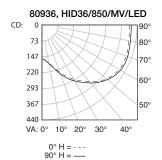Use on incompatible systems may shorten lamp life.
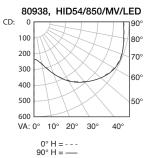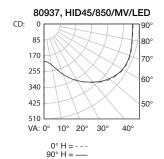Please check the DLC qualified products List https://www.designlights.org/qpl for all qualified Halco products.

Savings Comparison

Total Lifetime Costs

Legend:
- Maintenance Costs˅
- Energy Costs˅

Categories: 150W Metal Halide / 36W HID ProLED / 175W Metal Halide / 45W HID ProLED / 250W Metal Halide / 54W HID ProLED

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
˅ Energy costs based on $0.11 kWh over 40,000 hour life.

Photometrics

80936, HID36/850/MV/LED

0° H = - - -
90° H = ——

80937, HID45/850/MV/LED

0° H = - - -
90° H = ——

80938, HID54/850/MV/LED

0° H = - - -
90° H = ——

ProLED®

ProLED Universal Voltage PAR38

Specifications

– 120-277V range

– IP65 Rated for wet locations

– Available in 4000K and 5000K CCT

– 82 CRI for quality and consistent color rendering

– No Mercury or UV/IR emissions

– Non-dimmable

– RoHS Compliant

– 5-Year Limited Warranty

4.76"
120.9 mm

5.08"
129.0 mm

Markets & Applications

| Residential | Commercial | Education | Office | Retail | Healthcare | Hospitality |

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
17 Watt	Med.	82061	PAR38FL17/940/W/MV/LED	Flood, White, IP65 Rated ⌀	120-277	4000K	90	1200	2590	40,000	6/24	40º	5.08"	120
17 Watt	Med.	82062	PAR38FL17/950/W/MV/LED	Flood, White, IP65 Rated ⌀	120-277	5000K	90	1200	2630	40,000	6/24	40º	5.08"	120

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
Acceptable for use in sealed metal landscape luminaires when protected from the elements.
⌀ Non-dimmable
Represents lamps that are ENERGY STAR® certified.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˅
■ Energy Costs¥

Chart y-axis: $0, $100, $200, $300, $400, $500, $600
Chart x-axis: 120W Halogen, 17W ProLED

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED High CRI PAR38

Specifications

– Acceptable for use in ICAT rated luminaires
– Available in white and black finishes
– UL Listed for wet locations
– Dimmable to 5% for design flexibility
– 120-277V Rated PAR38 available
– Available in 2700K, 3000K, 4000K and 5000K CCT
– 90 CRI provides superior quality and color accuracy
– 2700K and 3000K lamps' performance meets the California Quality Lamp Specifications
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

4.76"
120.9 mm

5.08"
129.0 mm

Markets & Applications

Residential   Commercial   Education   Office   Retail   Healthcare   Hospitality

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
15 Watt	Med.	82038	PAR38FL15/927/W/LED	Flood, White, IP65 Rated	120	2700K	90	950	2250	40,000	6/24	40°	5.08"	90
15 Watt	Med.	82039	PAR38FL15/930/W/LED	Flood, White, IP65 Rated	120	3000K	90	1000	2300	40,000	6/24	40°	5.08"	90
15 Watt	Med.	82040	PAR38FL15/940/W/LED	Flood, White, IP65 Rated	120	4000K	90	1020	2340	40,000	6/24	40°	5.08"	90
15 Watt	Med.	82041	PAR38FL15/950/W/LED	Flood, White, IP65 Rated	120	5000K	90	1050	2380	40,000	6/24	40°	5.08"	90
15 Watt	Med.	82042	PAR38NFL15/927/W/LED	Narrow Flood, White, IP65 Rated	120	2700K	90	950	4560	40,000	6/24	25°	5.08"	90
15 Watt	Med.	82043	PAR38NFL15/930/W/LED	Narrow Flood, White, IP65 Rated	120	3000K	90	1000	4620	40,000	6/24	25°	5.08"	90
17 Watt	Med.	82046	PAR38FL17/927/W/LED	Flood, White, IP65 Rated	120	2700K	90	1150	2500	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82047	PAR38FL17/927/B/LED	Flood, Black, IP65 Rated	120	2700K	90	1150	2500	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82048	PAR38FL17/930/W/LED	Flood, White, IP65 Rated	120	3000K	90	1200	2550	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82049	PAR38FL17/930/B/LED	Flood, Black, IP65 Rated	120	3000K	90	1200	2550	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82050	PAR38FL17/940/W/LED	Flood, White, IP65 Rated	120	4000K	90	1220	2590	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82051	PAR38FL17/940/B/LED	Flood, Black, IP65 Rated	120	4000K	90	1220	2590	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82052	PAR38FL17/950/W/LED	Flood, White, IP65 Rated	120	5000K	90	1250	2630	40,000	6/24	40°	5.08"	120
17 Watt	Med.	82053	PAR38NFL17/927/W/LED	Narrow Flood, White, IP65 Rated	120	2700K	90	1150	5900	40,000	6/24	25°	5.08"	120
17 Watt	Med.	82054	PAR38NFL17/927/B/LED	Narrow Flood, Black, IP65 Rated	120	2700K	90	1150	5900	40,000	6/24	25°	5.08"	120
17 Watt	Med.	82055	PAR38NFL17/930/W/LED	Narrow Flood, White, IP65 Rated	120	3000K	90	1200	5960	40,000	6/24	25°	5.08"	120
17 Watt	Med.	82056	PAR38NFL17/930/B/LED	Narrow Flood, Black, IP65 Rated	120	3000K	90	1200	5960	40,000	6/24	25°	5.08"	120
17 Watt	Med.	82057	PAR38NFL17/940/W/LED	Narrow Flood, White, IP65 Rated	120	4000K	90	1220	6010	40,000	6/24	25°	5.08"	120
17 Watt	Med.	82059	PAR38NFL17/950/W/LED	Narrow Flood, White, IP65 Rated	120	5000K	90	1250	6050	40,000	6/24	25°	5.08"	120

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
Use on incompatible systems may shorten lamp life.
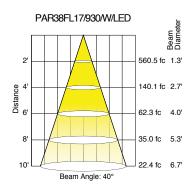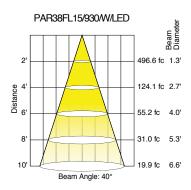Acceptable for use in sealed metal landscape luminaires when protected from the elements.
Represents lamps that are ENERGY STAR® certified.

ProLED®

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

Photometrics

PAR38FL17/930/W/LED

Distance	Beam Diameter	
2'	560.5 fc	1.3'
4'	140.1 fc	2.7'
6'	62.3 fc	4.0'
8'	35.0 fc	5.3'
10'	22.4 fc	6.7'

Beam Angle: 40°

PAR38FL15/930/W/LED

Distance	Beam Diameter	
2'	496.6 fc	1.3'
4'	124.1 fc	2.7'
6'	55.2 fc	4.0'
8'	31.0 fc	5.3'
10'	19.9 fc	6.6'

Beam Angle: 40°

ProLED High CRI PAR30

Specifications

– PAR30S and PAR30L with smooth sided, lightweight construction
– Acceptable for use in ICAT rated luminaires
– Available in white and black finishes
– UL Listed for wet locations
– Dimmable to 5% for design flexibility
– Available in 2700K, 3000K, 4000K and 5000K
– 90 CRI provides superior quality and color accuracy
– Narrow Flood and Flood beam angles available
– 2700K and 3000K lamps' performance meets the California Quality Lamp Specifications
– No Mercury or UV/IR emissions
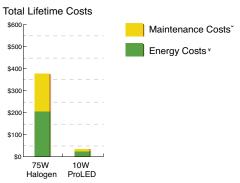– RoHS Compliant
– 5-Year Limited Warranty

Long Neck

High **CRI**

Short Neck

3.74"
95.0 mm

4.61"
117.1 mm

3.74"
95.0 mm

3.35"
85.1 mm

Long Neck   Short Neck

Markets & Applications

Residential   Commercial   Education   Retail   Healthcare   Hospitality

Landscape   Conference Room

RoHS Compliant   5 Limited Warranty   ENERGY STAR   c UL us

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
10 Watt	Med.	82012	PAR30FL10L/927/W/LED	Flood, White, IP65 Rated	120	2700K	90	750	1560	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82013	PAR30FL10L/927/B/LED	Flood, Black, IP65 Rated	120	2700K	90	750	1560	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82014	PAR30FL10L/930/W/LED	Flood, White, IP65 Rated	120	3000K	90	800	1600	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82015	PAR30FL10L/930/B/LED	Flood, Black, IP65 Rated	120	3000K	90	800	1600	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82016	PAR30FL10L/940/W/LED	Flood, White, IP65 Rated	120	4000K	90	820	1630	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82017	PAR30FL10L/940/B/LED	Flood, Black, IP65 Rated	120	4000K	90	820	1630	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82018	PAR30FL10L/950/W/LED	Flood, White, IP65 Rated	120	5000K	90	850	1670	40,000	6/24	40°	4.61"	75
10 Watt	Med.	82019	PAR30NFL10L/927/W/LED	Narrow Flood, White, IP65 Rated	120	2700K	90	750	3540	40,000	6/24	25°	4.61"	75
10 Watt	Med.	82020	PAR30NFL10L/927/B/LED	Narrow Flood, Black, IP65 Rated	120	2700K	90	750	3540	40,000	6/24	25°	4.61"	75
10 Watt	Med.	82021	PAR30NFL10L/930/W/LED	Narrow Flood, White, IP65 Rated	120	3000K	90	800	3600	40,000	6/24	25°	4.61"	75
10 Watt	Med.	82024	PAR30NFL10L/950/W/LED	Narrow Flood, White, IP65 Rated	120	5000K	90	850	3670	40,000	6/24	25°	4.61	75
10 Watt	Med.	82025	PAR30FL10S/927/W/LED	Flood, White, IP65 Rated	120	2700K	90	750	1590	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82026	PAR30FL10S/927/B/LED	Flood, Black, IP65 Rated	120	2700K	90	750	1590	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82027	PAR30FL10S/930/W/LED	Flood, White, IP65 Rated	120	3000K	90	800	1640	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82028	PAR30FL10S/930/B/LED	Flood, Black, IP65 Rated	120	3000K	90	800	1640	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82029	PAR30FL10S/940/W/LED	Flood, White, IP65 Rated	120	4000K	90	820	1680	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82030	PAR30FL10S/940/B/LED	Flood, Black, IP65 Rated	120	4000K	90	820	1680	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82031	PAR30FL10S/950/W/LED	Flood, White, IP65 Rated	120	5000K	90	850	1720	40,000	6/24	40°	3.35"	75
10 Watt	Med.	82032	PAR30NFL10S/927/W/LED	Narrow Flood, White, IP65 Rated	120	2700K	90	750	3700	40,000	6/24	25°	3.35"	75
10 Watt	Med.	82033	PAR30NFL10S/927/B/LED	Narrow Flood, Black, IP65 Rated	120	2700K	90	750	3700	40,000	6/24	25°	3.35"	75
10 Watt	Med.	82034	PAR30NFL10S/930/W/LED	Narrow Flood, White, IP65 Rated	120	3000K	90	800	3760	40,000	6/24	25°	3.35"	75
10 Watt	Med.	82035	PAR30NFL10S/930/B/LED	Narrow Flood, Black, IP65 Rated	120	3000K	90	800	3760	40,000	6/24	25°	3.35"	75
10 Watt	Med.	82036	PAR30NFL10S/940/W/LED	Narrow Flood, White, IP65 Rated	120	4000K	90	900	3820	40,000	6/24	25°	3.35"	75

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
Use on incompatible systems may shorten lamp life.
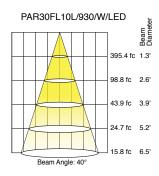Represents lamps that are ENERGY STAR® certified.

ProLED

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

Chart axis: $600, $500, $400, $300, $200, $100, $0
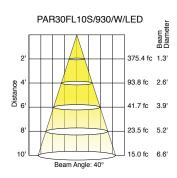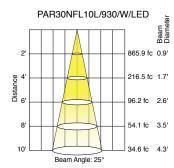
Categories: 75W Halogen, 10W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
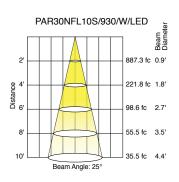¥ Energy costs based on $0.11 kWh over 40,000 hour life.

Photometrics

PAR30FL10L/930/W/LED — Beam Diameter

Distance	fc	Beam Diameter
	395.4 fc	1.3'
	98.8 fc	2.6'
	43.9 fc	3.9'
	24.7 fc	5.2'
	15.8 fc	6.5'

Beam Angle: 40°

PAR30FL10S/930/W/LED — Beam Diameter

Distance	fc	Beam Diameter
2'	375.4 fc	1.3'
4'	93.8 fc	2.6'
6'	41.7 fc	3.9'
8'	23.5 fc	5.2'
10'	15.0 fc	6.6'

Beam Angle: 40°

PAR30NFL10L/930/W/LED — Beam Diameter

Distance	fc	Beam Diameter
2'	865.9 fc	0.9'
4'	216.5 fc	1.7'
6'	96.2 fc	2.6'
8'	54.1 fc	3.5'
10'	34.6 fc	4.3'

Beam Angle: 25°

PAR30NFL10S/930/W/LED — Beam Diameter

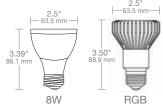| Distance	fc	Beam Diameter
2'	887.3 fc	0.9'
4'	221.8 fc	1.8'
6'	98.6 fc	2.7'
8'	55.5 fc	3.5'
10'	35.5 fc	4.4'

Beam Angle: 25°

ProLED PAR30 Series IP65 rated long and short neck lamps are ideal for retail applications. Compared to Incandescent and Halogen, ProLED lamps generate less heat and emit no ultraviolet or infrared rays eliminating fading concerns. ProLED PAR30 lamps' labor saving long life - up-to 40,000 hours - reduces maintenance costs *keeping the store open for business*.

ProLED High CRI PAR20

Specifications

– PAR20 with smooth sided, lightweight construction
– Acceptable for use in ICAT rated luminaires
– Available in white and black finishes
– UL Listed for wet locations
– Dimmable to 5% for design flexibility
– Available in 2700K, 3000K, 4000K and 5000K
– 90 CRI provides superior quality and color accuracy
– Narrow Flood and Flood beam angles available
– 2700K and 3000K lamps' performance meets the California Quality Lamp Specifications
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

High
CRI

2.5"
63.5 mm

2.5"
63.5 mm

3.39"
86.1 mm

3.50"
88.9 mm

8W

RGB

Markets & Applications

Residential Commercial Education Retail Healthcare Hospitality Landscape

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
7 Watt	Med.	82000	PAR20NFL7/927/W/LED	Narrow Flood, White, IP65 Rated	120	2700K	90	460	1500	40,000	6/24	25°	3.39"	50
7 Watt	Med.	82001	PAR20NFL7/930/W/LED	Narrow Flood, White, IP65 Rated	120	3000K	90	470	1540	40,000	6/24	25°	3.39"	50
7 Watt	Med.	82003	PAR20NFL7/930/B/LED	Narrow Flood, Black, IP65 Rated	120	3000K	90	470	1540	40,000	6/24	25°	3.39"	50
7 Watt	Med.	82004	PAR20NFL7/940/W/LED	Narrow Flood, White, IP65 Rated	120	4000K	90	500	1590	40,000	6/24	25°	3.39"	50
7 Watt	Med.	82005	PAR20NFL7/950/W/LED	Narrow Flood, White, IP65 Rated	120	5000K	90	525	1630	40,000	6/24	25°	3.39"	50
7 Watt	Med.	82006	PAR20FL7/927/W/LED	Flood, White, IP65 Rated	120	2700K	90	460	920	40,000	6/24	40°	3.39"	50
7 Watt	Med.	82007	PAR20FL7/927/B/LED	Flood, Black, IP65 Rated	120	2700K	90	460	920	40,000	6/24	40°	3.39"	50
7 Watt	Med.	82008	PAR20FL7/930/W/LED	Flood, White, IP65 Rated	120	3000K	90	470	970	40,000	6/24	40°	3.39"	50
7 Watt	Med.	82009	PAR20FL7/930/B/LED	Flood, Black, IP65 Rated	120	3000K	90	470	970	40,000	6/24	40°	3.39"	50
7 Watt	Med.	82010	PAR20FL7/940/W/LED	Flood, White, IP65 Rated	120	4000K	90	500	1020	40,000	6/24	40°	3.39"	50
7 Watt	Med.	82011	PAR20FL7/940/B/LED	Flood, Black, IP65 Rated	120	4000K	90	500	1020	40,000	6/24	40°	3.39"	50
7 Watt	Med.	82060	PAR20FL7/950/W/LED	Flood, White, IP65 Rated	120	5000K	90	525	1050	40,000	6/24	40°	3.39"	50
8 Watt	Med.	80638	PAR20/8RGB/NFL/LED	Narrow Flood Color Changing Red, Green, Blue ⌘	120	-	-	-	-	40,000	1/6	25°	3.50"	-
		80649	RGB/REMOTE	Remote Control for Color Changing Lamp										

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
◆ May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
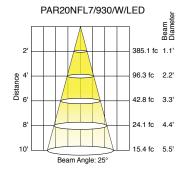Represents lamps that are ENERGY STAR® certified.
⌘ Non-dimmable

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
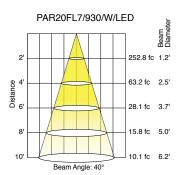■ Energy Costs¥

$300
$200
$100
$0

50W Halogen
7W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

Photometrics

PAR20NFL7/930/W/LED

Beam Diameter
Distance

	fc	diam
2'	385.1 fc	1.1'
4'	96.3 fc	2.2'
6'	42.8 fc	3.3'
8'	24.1 fc	4.4'
10'	15.4 fc	5.5'

Beam Angle: 25°

PAR20FL7/930/W/LED

Beam Diameter
Distance

	fc	diam
2'	252.8 fc	1.2'
4'	63.2 fc	2.5'
6'	28.1 fc	3.7'
8'	15.8 fc	5.0'
10'	10.1 fc	6.2'

Beam Angle: 40°

ProLED

Specifications

– UL listed for wet locations – allows for indoor or outdoor flexibility
– Acceptable for use in ICAT rated luminaires
– Dimmable to 10%
– Prismatic glass lens and silver housing offers traditional halogen PAR look and feel
– Superior efficacy - up to 80 lumens per watt
– 82 CRI for quality and consistent color rendering
– 5-Year Limited Warranty

NEW!

3.74"
95.0 mm

2.5"
63.5 mm

4.61"
117.1 mm

3.74"
95.0 mm

4.76"
120.9 mm

3.39"
86.1 mm

3.35"
85.1 mm

5.08"
129.0 mm

PAR20   PAR30L   PAR30S   PAR38

Markets & Applications

Residential   Commercial   Office   Retail   Healthcare

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
7 Watt	Med.	80963	PAR20FL7/827/ECO/LED	Flood	120	2700K	82	500	25,000	1/6	40°	3.39"	50
7 Watt	Med.	80964	PAR20FL7/830/ECO/LED	Flood	120	3000K	82	500	25,000	1/6	40°	3.39"	50
10 Watt	Med.	80958	PAR30FL10L/827/ECO/LED	Flood	120	2700K	82	800	25,000	1/6	40°	4.61"	50
10 Watt	Med.	80959	PAR30FL10L/830/ECO/LED	Flood	120	3000K	82	800	25,000	1/6	40°	4.61"	50
10 Watt	Med.	80960	PAR30FL10L/840/ECO/LED	Flood	120	4000K	82	800	25,000	1/6	40°	4.61"	50
10 Watt	Med.	80961	PAR30FL10S/827/ECO/LED	Flood	120	2700K	82	800	25,000	1/6	40°	3.35"	45
10 Watt	Med.	80962	PAR30FL10S/830/ECO/LED	Flood	120	3000K	82	800	25,000	1/6	40°	3.35"	45
15 Watt	Med.	80953	PAR38FL15/827/ECO/LED	Flood	120	2700K	82	1200	25,000	1/6	40°	5.08"	90
15 Watt	Med.	80954	PAR38FL15/830/ECO/LED	Flood	120	3000K	82	1200	25,000	1/6	40°	5.08"	90
15 Watt	Med.	80955	PAR38FL15/840/ECO/LED	Flood	120	4000K	82	1200	25,000	1/6	40°	5.08"	90
15 Watt	Med.	80956	PAR38FL15/850/ECO/LED	Flood	120	5000K	82	1200	25,000	1/6	40°	5.08"	90
15 Watt	Med.	80957	PAR38NFL15/830/ECO/LED	Narrow Flood	120	3000K	82	1200	25,000	1/6	25°	5.08"	90

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels. May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

$300

$200

$100

$0

50W Halogen   7W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

■ ProLED PAR16/MR16

Specifications

– Up-to 83% energy savings - 6W PAR16 versus 35W Halogen
– UL Listed for damp locations
– Dimmable to 5% for design flexibility
– 40,000 hour life, 16 times longer than traditional lamps
– Available in 2700K, 3000K, 4000K and 5000K CCT
– Up-to 82 CRI for quality and consistent color rendering
– Flood or Narrow Flood beam spreads
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

PAR
1.96" / 49.8 mm
2.75" / 69.9 mm

MR16
1.99" / 50.5 mm
1.85" / 47.0 mm

Markets & Applications

Residential | Commercial | Education | Retail | Healthcare | Hospitality

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
5 Watt	GU5.3	81120	MR16FL5/827/LED	Flood	12	2700K	82	360	730	35,000	1/10	40°	1.85"	35
5 Watt	GU5.3	81121	MR16FL5/830/LED	Flood	12	3000K	82	370	750	35,000	1/10	40°	1.85"	35
5 Watt	GU5.3	81122	MR16FL5/850/LED	Flood	12	5000K	82	400	780	35,000	1/10	40°	1.85"	35
6 Watt	Med.	81038	PAR16FL6/827/W/LED	Flood ∞	120	2700K	82	370	780	40,000	6/24	40°	2.75"	35
6 Watt	Med.	81127	PAR16FL6/830/W/LED	Flood ∞	120	3000K	82	380	780	25,000 ■	6/24	40°	2.75"	35
6 Watt	Med.	81040	PAR16FL6/840/W/LED	Flood ∞	120	4000K	82	400	780	40,000	6/24	40°	2.75"	35
6 Watt	Med.	81041	PAR16FL6/850/W/LED	Flood ∞	120	5000K	82	415	780	40,000	6/24	40°	2.75"	35
7 Watt	GU5.3	81123	MR16FL7/827/LED	Flood	12	2700K	82	500	1360	25,000 ■	1/10	40°	1.85"	50
7 Watt	GU5.3	81124	MR16FL7/830/LED	Flood	12	3000K	82	520	780	25,000 ■	1/10	40°	1.85"	50
7 Watt	GU5.3	81125	MR16FL7/850/LED	Flood	12	5000K	82	560	780	35,000	1/10	40°	1.85"	50
7 Watt	GU5.3	81126	MR16NFL7/830/LED	Narrow Flood	12	3000K	82	520	1140	25,000 ■	1/10	20°	1.85"	50

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to operate past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
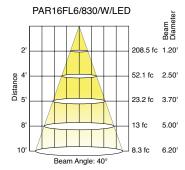Use on incompatible systems may shorten lamp life.
∞ Acceptable for use in sealed metal landscape luminaires when protected from the elements.
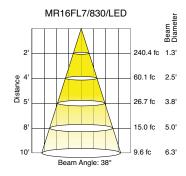Represents lamps that are ENERGY STAR® certified.
■ ENERGY STAR® mandates that lamps may only be listed at 25,000 hour life with 3,000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements.
Upon completion of full lifetime testing, ProLED ENERGY STAR® listed lamps will be listed at their full lifetime.

Savings Comparison

Total Lifetime Costs

Legend:
■ Maintenance Costs˅
■ Energy Costs˄

Categories: 35W Halogen | 6W PAR ProLED | 50W Halogen | 7W MR16 ProLED

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per hr over the life of the ProLED lamp.
˄ Energy costs based on $0.11 kWh over 40,000 hour life.

Photometrics

PAR16FL6/830/W/LED

Distance	fc	Beam Diameter
2'	208.5 fc	1.20'
4'	52.1 fc	2.50'
5'	23.2 fc	3.70'
8'	13 fc	5.00'
10'	8.3 fc	6.20'

Beam Angle: 40°

MR16FL7/830/LED

Distance	fc	Beam Diameter
2'	240.4 fc	1.3'
4'	60.1 fc	2.5'
5'	26.7 fc	3.8'
8'	15.0 fc	5.0'
10'	9.6 fc	6.3'

Beam Angle: 38°

ProLED®

ProLED BR40

Specifications

– BR40 with Medium E26 base
– Acceptable for ICAT rated luminaires
– UL Listed for damp locations
– Dimmable to 5% for design flexibility
– Up-to 40,000 hour life
– Available in 2700K, 3000K, 4000K and 5000K CCT
– 82 CRI for quality and consistent color rendering
– Flood beam spread
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

5.0"
127.0 mm

6.46"
164.1 mm

Markets & Applications

Residential | Commercial | Education | Office | Retail | Healthcare | Hospitality

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
11.5	Med.	80981	BR40FL11/827/LED	Reflector	120	2700K	82	940	25,000 ■	1/6	6.46"	75
11.5	Med.	80980	BR40FL11/830/LED	Reflector	120	3000K	82	970	25,000 ■	1/6	6.46"	75
16.5 Watt	Med.	80983	BR40FL16/827/LED	Reflector	120	2700K	82	1200	25,000 ■	1/6	6.46"	85
16.5 Watt	Med.	80982	BR40FL16/830/LED	Reflector	120	3000K	82	1230	25,000 ■	1/6	6.46"	85
16.5 Watt	Med.	80984	BR40FL16/840/LED	Reflector	120	4000K	82	1280	25,000 ■	1/6	6.46"	85
16.5 Watt	Med.	80985	BR40FL16/850/LED	Reflector	120	5000K	82	1320	25,000 ■	1/6	6.46"	85
16.5 Watt	Med.	80992	R40FL16/POOL/LED	Pool	120	6500K	82	1400	40,000	1/6	6.46"	85
16.5 Watt	Med.	80993	R40FL18/POOL/12V/LED	Pool	12	6500K	82	1400	40,000	1/6	6.46"	85

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels. May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.
■ ENERGY STAR® mandates that lamps may only be listed at 25,000 hour life with 3,000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements. Upon completion of full lifetime testing, ProLED ENERGY STAR® listed lamps will be listed at their full lifetime.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costsᵛ

$400
$300
$200
$100
$0

65W Incandescent | 11.5W ProLED | 85W Incandescent | 16.5W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
ᵛ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED BR30

Specifications

– BR30 with Medium E26 base
– Acceptable for ICAT rated luminaires
– UL Listed for damp locations
– Dimmable to 5% for design flexibility
– Up-to 40,000 hour life
– Available in 2700K, 3000K, 4000K, 5000K CCT and Pink
– 82 CRI for quality and consistent color rendering
– Flood beam spread
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

3.75"
95.3 mm

5.12"
130.0 mm

Markets & Applications

Residential Commercial Education Office Retail Healthcare Hospitality

RoHS Compliant 5 Limited Warranty ENERGY STAR c UL us

Ordering Information

Watt	Base	Product #	Product Code	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
8 Watt	Med.	80990	BR30FL8/827ECO/LED	120	2700K	82	650	25,000 ■	1/6	5.12"	65
8 Watt	Med.	80991	BR30FL8/830/ECOLED	120	3000K	82	670	25,000 ■	1/6	5.12"	65
8.5 Watt	Med.	80166	BR30FL9/PNK/LED	120	Pink	-	-	40,000	1/6	5.12"	65
9.5 Watt	Med.	80976	BR30FL10/827/LED	120	2700K	82	750	25,000 ■	1/6	5.12"	65
9.5 Watt	Med.	80977	BR30FL10/830/LED	120	3000K	82	770	25,000 ■	1/6	5.12"	65
9.5 Watt	Med.	8978	BR30FL10/840/LED	120	4000K	82	800	25,000 ■	1/6	5.12"	65
9.5 Watt	Med.	80979	BR30FL10/850/LED	120	5000K	82	830	25,000 ■	1/6	5.12"	65

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.
■ ENERGY STAR® mandates that lamps may only be listed at 25,000 hour life with 3,000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements.
Upon completion of full lifetime testing, ProLED ENERGY STAR® listed lamps will be listed at their full lifetime.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˅
■ Energy Costs¥

$400
$300
$200
$100
$0

65W Incandescent   8W ProLED

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED®

ProLED R20

Specifications

– R20 with Medium E26 base

– Acceptable for ICAT rated luminaires

– UL Listed for damp locations

– Dimmable to 5% for design flexibility

– Up-to 40,000 hour life

– Available in 2700K, 3000K, 5000K and 6500K CCT

– 82 CRI for quality and consistent color rendering

– Flood beam spread

– No Mercury or UV/IR emissions

– RoHS Compliant
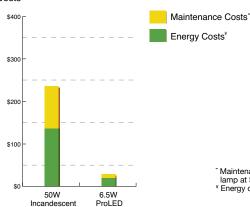
– 5-Year Limited Warranty

Markets & Applications

Residential   Commercial   Education   Office   Retail   Healthcare   Hospitality

2.5"
63.5 mm

3.94"
100.1 mm

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
6.5 Watt	Med.	80989	R20FL6/827/LED	Reflector	120	2700K	82	525	25,000 ■	1/6	3.94"	50
6.5 Watt	Med.	80986	R20FL6/830/LED	Reflector	120	3000K	82	520	25,000 ■	1/6	3.94"	50
6.5 Watt	Med.	80987	R20FL6/850/LED	Reflector	120	5000K	82	580	25,000 ■	1/6	3.94"	50
6.5 Watt	Med.	80995	R20FL6/POOL/LED	Pool	120	6500K	82	600	40,000	1/6	3.94"	50
6.5 Watt	Med.	80994	R20FL6/POOL/12V/LED	Pool	12	6500K	82	600	40,000	1/6	3.94"	50

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels. May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
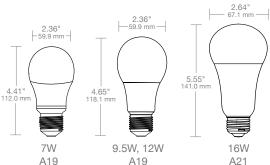Represents lamps that are ENERGY STAR® certified.
■ ENERGY STAR® mandates that lamps may only be listed at 25,000 hour life with 3,000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements. Upon completion of full lifetime testing, ProLED ENERGY STAR® listed lamps will be listed at their full lifetime.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

[Bar chart: 50W Incandescent vs 6.5W ProLED]

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED Omnidirectional A-Shape Series

Specifications

– 300° Omnidirectional
– UL Listed for damp locations and enclosed luminaires
– Dimmable to 5% for design flexibility
– Available in 2700K, 3000K, 4000K and 5000K CCT
– 82 CRI for quality and consistent color rendering
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

2.36"
59.9 mm

2.36"
59.9 mm

2.64"
67.1 mm

4.41"
112.0 mm

4.65"
118.1 mm

5.55"
141.0 mm

7W
A19

9.5W, 12W
A19

16W
A21

Markets & Applications

Residential   Commercial   Education   Retail   Healthcare   Hospitality

Ordering Information

Watt	Base	Product #	Product Code	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
7 Watt	Med.	80841	A19FR7/827/OMNI/LED	120	2700K	82	470	25,000	1/6	4.41"	40
7 Watt	Med.	80842	A19FR7/830/OMNI/LED	120	3000K	82	500	25,000	1/6	4.41"	40
9.5 Watt	Med.	80857	A19FR10/827/OMNI/LED	120	2700K	82	810	25,000	1/6	4.65"	60
9.5 Watt	Med.	80864	A19FR10/830/OMNI/LED	120	3000K	82	820	25,000	1/6	4.65"	60
9.5 Watt	Med.	80865	A19FR10/840/OMNI/LED	120	4000K	82	870	25,000	1/6	4.65"	60
9.5 Watt	Med.	80870	A19FR10/850/OMNI/LED	120	5000K	82	880	25,000	1/6	4.65"	60
12 Watt	Med.	80939	A19FR12/827/OMNI/LED	120	2700K	82	1100	25,000	1/6	4.65"	75
12 Watt	Med.	80940	A19FR12/830/OMNI/LED	120	3000K	82	1140	25,000	1/6	4.65"	75
16 Watt	Med.	80947	A21FR16/827/OMNI/LED	120	2700K	82	1600	25,000	1/6	5.55"	100
16 Watt	Med.	80945	A21FR16/830/OMNI/LED	120	3000K	82	1650	25,000	1/6	5.55"	100
16 Watt	Med.	80946	A21FR16/840/OMNI/LED	120	4000K	82	1720	25,000	1/6	5.55"	100
16 Watt	Med.	80948	A21FR16/850/OMNI/LED	120	5000K	82	1800	25,000	1/6	5.55"	100

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.
25,000 hour useful life rating is based on a maximum ambient temperature of 45°C. Exceeding this ambient temperature rating may result in reduced life.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˅
■ Energy Costs¥

$400

$300

$200

$100

$0

40W
Incand.

7W
ProLED

60W
Incand.

9.5W
ProLED

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 25,000 hour life.

ProLED

ProLED A-Shape Non-Dimmable Series

Specifications

– A19 A-Shape with Medium base
– 15,000 hour life
– Available in 2700K, 3000K & 5000K CCT
– 82 CRI for quality and consistent color rendering
– UL listed for damp locations and enclosed luminaires
– No Mercury or UV/IR emissions
– RoHS Compliant
– Non-Dimmable
– 3-Year Limited Warranty

NON DIMMABLE

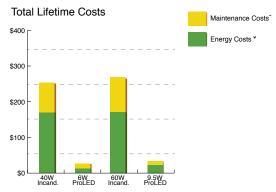## Markets & Applications

Residential Commercial Education Retail Healthcare Hospitality

2.36"
60.0 mm

4.33"
110 mm

6W/9.5W

Ordering Information

RoHS Compliant

Watt	Base	Product #	Product Code	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
6 Watt	E26	80971	A19FR6/827/ECO/LED	120	2700K	82	450	15,000	1/6	4.33"	40
6 Watt	E26	80972	A19FR6/830/ECO/LED	120	3000K	82	470	15,000	1/6	4.33"	40
9.5 Watt	E26	80973	A19FR9/827/ECO/LED	120	2700K	82	800	15,000	1/6	4.33"	60
9.5 Watt	E26	80974	A19FR9/830/ECO/LED	120	3000K	82	830	15,000	1/6	4.33"	60
9.5 Watt	E26	80975	A19FR9/850/ECO/LED	120	5000K	82	900	15,000	1/6	4.33"	60

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
Use on incompatible systems may shorten lamp life.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs ¥

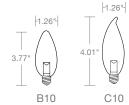˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 25,000 hour life.

ProLED

ProLED Decorative Chandelier

Specifications

- B10 Torpedo and C10 Flame tip options
- Dimmable to 5% for design flexibility
- UL Listed for wet locations
- Available in 2400K and 2700K CCT
- 72 and 82 CRI options
- Up-to 25,000 hour life, 16 times longer than traditional lamps
- Unique "Heat-to-Base" technology
- Omnidirectional distribution
- No Mercury or UV/IR emissions
- RoHS Compliant
- 5-Year Limited Warranty

B10
2400K

B10
2700K

CA10
2400K

CA10
2700K

1.26"

1.26"

3.77"

4.01"

B10

C10

Markets & Applications

Residential   Commercial   Retail   Hospitality

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL
1 Watt	Cand.	**80172**	**B10CL1/827/LED**	Clear Torpedo	120	2700K	82	25	25,000	1/25	3.77"
1 Watt	Cand.	**80173**	**B10CL1/724/LED**	Clear Torpedo	120	2400K	72	20	25,000	1/25	3.77"
1 Watt	Cand.	**80174**	**CA10CL1/827/LED**	Clear Flame Tip	120	2700K	82	25	25,000	1/25	4.01"
1 Watt	Cand.	**80175**	**CA10CL1/724/LED**	Clear Flame Tip	120	2400K	72	20	25,000	1/25	4.01"

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
Not for use in enclosed luminaires.

ProLED

Specifications

– Up-to 87% energy savings
– Cream, Chrome and Brass base options (3W)
– Dimmable to 5% for design flexibility (3W and 5W)
– Up-to 25,000 hour life, 16 times longer than traditional lamps
– Available in 2700K CCT
– 82 CRI for quality and consistent color rendering
– Omnidirectional distribution
– No Mercury or UV/IR emissions
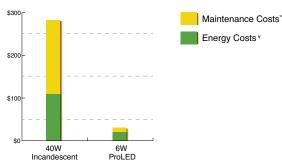– RoHS Compliant
– 5-Year Limited Warranty

Cream 5W Med.

Cream 3W

Chrome

Brass

Markets & Applications

Residential | Commercial | Retail | Healthcare | Hospitality

1.38" 35.1 mm

1.38" 35.1 mm

3.78" 96.0 mm

3.78" 96.0 mm

5W

3W/4.5W

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
3 Watt	Cand.	80094	B11CL3/827/LED	Cream Finish	120	2700K	82	180	25,000	1/10	3.78"	25
3 Watt	Cand.	80789	B11CL3/827/BR/LED	Brass Finish	120	2700K	82	180	25,000	1/10	3.78"	25
3 Watt	Cand.	80790	B11CL3/827/CHR/LED	Chrome Finish	120	2700K	82	180	25,000	1/10	3.78"	25
4.5 Watt	Cand.	80820	B11CL5/827/LED	Cream Finish	120	2700K	82	300	25,000	1/10	3.78"	40
4.5 Watt	Med.	80168	B11CL5/827/E26/LED	Cream Finish	120	2700K	82	300	25,000	1/10	3.78"	40

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels. May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˅
■ Energy Costs¥

15W Incand. | 2W ProLED | 25W Incand. | 3W ProLED | 40W Incand. | 4.5W ProLED

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED Globe

Specifications

– Up-to 80% energy savings - 8W Globe versus 40W Incandescent
– UL Listed for damp locations
– Dimmable to 5% for design flexibility
– 25,000 hour life, 18 times longer than traditional lamps
– Available in 3000K CCT
– 82 CRI for quality and consistent color rendering
– Omnidirectional distribution
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

3.15"
80.0 mm

4.25"
108.0 mm

Markets & Applications

Residential   Commercial   Retail   Healthcare   Hospitality

Ordering Information

Watt	Base	Product #	Product Code	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
6 Watt	Med.	80180	G25FR6/830/LED	120	3000K	82	470	25,000 ■	1/6	4.25"	40

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels..
Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.
■ ENERGY STAR® mandates that all directional lamps may only be listed at 25,000 hour life with 3,000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements.
Upon completion of full lifetime testing, ProLED ENERGY STAR® listed lamps will be listed at their full lifetime.

Savings Comparison

Total Lifetime Costs

- Maintenance Costs˘
- Energy Costs¥

$300
$200
$100
$0

40W Incandescent   6W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 28,000 hour life.

ProLED®

Specifications

- – High power LED for maximum efficiency
- – Up-to 73% energy savings - 11.5W PAR36 versus 50W Halogen
- – Multi-purpose base for slip-on or screw terminal connections
- – 12V input voltage
- – 40,000 hour life, 14 times longer than traditional lamps
- – Available in 2700K CCT
- – 82 CRI for quality and consistent color rendering
- – Flood beam spread
- – No Mercury or UV/IR emissions
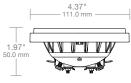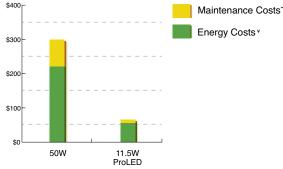- – RoHS Compliant
- – 5-Year Limited Warranty

NEW!

Markets & Applications

Commercial   Education   Retail   Healthcare   Hospitality

4.37"
111.0 mm

1.97"
50.0 mm

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
11.5 Watt	MP Term	81097	PAR36FL11/827/LED	Flood ⌇	12	2700K	82	870	2000	40,000	1/6	32°	1.97"	50
17 Watt	MP Term	80863	PAR36FL17/827/LED	Flood ⌇	12	2700K	82	1000	2300	40,000	1/6	32°	1.97"	75

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
Not for use in enclosed luminaires.
May not be compatible with all electronic transformers.
Rated for indoor use only.
⌇ Non-dimmable

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED C7/C9

Specifications

– Up-to 86% energy savings - 0.96W C7 or C9 lamp versus 7W Incandescent
– IP65 Rated for outdoor use
– 60,000 hour life, 20 times longer than traditional lamps
– Faceted or Smooth (C7)
– Available in 2700K and 6000K CCT, Blue, Green, Red or Yellow
– Omnidirectional distribution
– No Mercury or UV/IR emissions
– RoHS Compliant
– 2-Year Limited Warranty

0.88"
22.4 mm

1.13"
28.7 mm

1.30"
33.0 mm

1.60"
40.6 mm

C7

C9

Markets & Applications

Residential Commercial Retail Hospitality Outdoor

Ordering Information

RoHS Compliant

Watt	Base	Product #	Product Code	Description	Volts	Useful Life*	Pkg. Qty.	MOL
0.96	Cand.	80510	C7NW/FC/LED	6000K Faceted	120	60,000	10/200	1.30"
0.96	Cand.	80516	C7WW/FC/LED	2700K Faceted	120	60,000	10/200	1.30"
0.96	Cand.	80508	C7BLU/FC/LED	Blue Faceted	120	60,000	10/200	1.30"
0.96	Cand.	80509	C7GRN/FC/LED	Green Faceted	120	60,000	10/200	1.30"
0.96	Cand.	80506	C7RED/FC/LED	Red Faceted	120	60,000	10/200	1.30"
0.96	Cand.	80507	C7YEL/FC/LED	Yellow Faceted	120	60,000	10/200	1.30"
0.96	Int.	80515	C9CL/FC/LED	Clear Faceted	120	60,000	10/200	1.60"
0.96	Int.	80513	C9BLU/FC/LED	Blue Faceted	120	60,000	10/200	1.60"
0.96	Int.	80514	C9GRN/FC/LED	Green Faceted	120	60,000	10/200	1.60"
0.96	Int.	80511	C9RED/FC/LED	Red Faceted	120	60,000	10/200	1.60"
0.96	Int.	80512	C9YEL/FC/LED	Yellow Faceted	120	60,000	10/200	1.60"

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

$250
$200
$150
$100
$50
$0

7W
Incandescent

0.96W
ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 60,000 hour life.

ProLED

Specifications

– S11 Shape with Medium E26 and E17 base
– S14 with Medium E26 base
– UL Listed for wet locations and IP65 Rated
– Dimmable
– 40,000 hour useful life
– S11 Shape available in Clear and White options
– S14 Shape available in Red, Blue, Green, Yellow, Orange, White and Clear 2700K options
– Designed for rapidly flashing sign applications
– Unique "Heat-to-Base" design
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

Markets & Applications

Residential   Commercial   Retail   Outdoor   Hospitality

1.39"
35.3 mm

1.39"
35.3 mm

1.77"
45.0 mm

2.24"
56.9 mm

2.24"
56.9 mm

3.35"
85.1 mm

S11

S14

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL
1.2 Watt	Int.	80525	S11CL1C/827/INT/LED	Clear, IP65 Rated	120	2700K	82	35	40,000	1/25	2.24"
1.2 Watt	Med.	80524	S11CL1C/827/LED	Clear, IP65 Rated	120	2700K	82	35	40,000	1/25	2.24"
1.2 Watt	Med.	80526	S11WH1C/LED	White, IP65 Rated	120	-	-	-	40,000	1/25	2.24"
1.4 Watt	Med.	80517	S14RED1C/LED	Red, IP65 Rated	120	-	-	-	40,000	1/25	3.35"
1.4 Watt	Med.	80518	S14BLU1C/LED	Blue, IP65 Rated	120	-	-	-	40,000	1/25	3.35"
1.4 Watt	Med.	80519	S14GRN1C/LED	Green, IP65 Rated	120	-	-	-	40,000	1/25	3.35"
1.4 Watt	Med.	80520	S14YEL1C/LED	Yellow, IP65 Rated	120	-	-	-	40,000	1/25	3.35"
1.4 Watt	Med.	80521	S14WH1C/LED	White, IP65 Rated	120	-	-	-	40,000	1/25	3.35"
1.4 Watt	Med.	80523	S14ORG1C/LED	Orange, IP65 Rated	120	-	-	-	40,000	1/25	3.35"
1.4 Watt	Med.	80522	S14CL1C/827/LED	Clear, IP65 Rated	120	2700K	82	35	40,000	1/25	3.35"

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
Not for use in enclosed luminaires.

ProLED MR16

Specifications

– MR16 with GU5.3 and GU10 base options
– UL Listed for damp locations and enclosed luminaires
– 10-18V (10W, 20W and 50W equivalents)
– 10-15V (35W equivalent)
– Dimmable to 5% for design flexibility
– Available in 2700K, 3000K and 5000K in Flood beam angles
– Available in 2700K and 3000K in Narrow Flood and Wide Flood beam angles
– 82 CRI for quality and consistent color rendering
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

2.0"
50.8 mm

1.97"
50.0 mm

2.5W/3.5W/4W/
4.5W//8W

2.0"
50.8 mm

2.17"
55.1 mm

RGB

Markets & Applications

Residential   Commercial   Education   Retail

Healthcare   Hospitality   Landscape

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
2.5 Watt	GU5.3	81055	MR16NFL10/827/LED	Narrow Flood ◆∞	10-18	2700K	82	200	800	40,000	1/10	20°	1.97"	10
2.5 Watt	GU5.3	81079	MR16NFL10/830/LED	Narrow Flood ◆∞	10-18	3000K	82	210	830	40,000	1/10	20°	1.97"	10
2.5 Watt	GU5.3	81056	MR16FL10/827/LED	Flood ◆∞	10-18	2700K	82	200	300	40,000	1/10	40°	1.97"	10
2.5 Watt	GU5.3	81077	MR16FL10/830/LED	Flood ◆∞	10-18	3000K	82	210	320	40,000	1/10	40°	1.97"	10
2.5 Watt	GU5.3	81058	MR16FL10/850/LED	Flood ◆∞	10-18	5000K	82	230	350	40,000	1/10	40°	1.97"	10
2.5 Watt	GU5.3	81057	MR16WFL10/827/LED	Wide Flood ◆∞	10-18	2700K	82	200	200	40,000	1/10	60°	1.97"	10
2.5 Watt	GU5.3	81080	MR16WFL10/830/LED	Wide Flood ◆∞	10-18	3000K	82	210	220	40,000	1/10	60°	1.97"	10
4 Watt	GU5.3	81059	MR16BBF/827/LED	Narrow Flood ◆∞	10-18	2700K	82	270	900	40,000	1/10	20°	1.97"	20
4 Watt	GU5.3	81081	MR16BBF/830/LED	Narrow Flood ◆∞	10-18	3000K	82	280	1100	40,000	1/10	20°	1.97"	20
4 Watt	GU5.3	81060	MR16BAB/827/LED	Flood ◆∞	10-18	2700K	82	270	440	40,000	1/10	40°	1.97"	20
4 Watt	GU5.3	81062	MR16BAB/830/LED	Flood ◆∞	10-18	3000K	82	280	500	40,000	1/10	40°	1.97"	20
4 Watt	GU5.3	81063	MR16BAB/850/LED	Flood ◆∞	10-18	5000K	82	310	530	40,000	1/10	40°	1.97"	20
4 Watt	GU5.3	81061	MR16WFL20/827/LED	Wide Flood ◆∞	10-18	2700K	82	270	210	40,000	1/10	60°	1.97"	20
4 Watt	GU5.3	81082	MR16WFL20/830/LED	Wide Flood ◆∞	10-18	3000K	82	280	230	40,000	1/10	60°	1.97"	20
4 Watt	GU5.3	80728	MR16/5RGB/FL/LED	Flood Color Changing Red, Green, Blue ∞	10-18	-	-	-	-	40,000	1/10	31°	2.17"	-
		80649	RGB/REMOTE	Remote Control for Color Changing Lamps										

ProLED

Ordering Information Continued

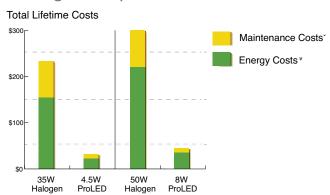| Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
4.5 Watt	GU5.3	81064	MR16FRA/827/LED	Narrow Flood ◆∞	10-15	2700K	82	380	1700	40,000	1/10	20°	1.97"	35
4.5 Watt	GU5.3	81083	MR16FRA/830/LED	Narrow Flood ◆∞	10-15	3000K	82	390	1800	40,000	1/10	20°	1.97"	35
4.5 Watt	GU5.3	81065	MR16FMW/827/LED	Flood ◆∞	10-15	2700K	82	380	600	40,000	1/10	40°	1.97"	35
4.5 Watt	GU5.3	81067	MR16FMW/830/LED	Flood ◆∞	10-15	3000K	82	390	650	40,000	1/10	40°	1.97"	35
4.5 Watt	GU5.3	81068	MR16FMW/850/LED	Flood ◆∞	10-15	5000K	82	430	700	40,000	1/10	40°	1.97"	55
4.5 Watt	GU5.3	81066	MR16WFL35/827/LED	Wide Flood ◆∞	10-15	2700K	82	380	300	40,000	1/10	60°	1.97"	35
4.5 Watt	GU5.3	81084	MR16WFL35/830/LED	Wide Flood ◆∞	10-15	3000K	82	390	320	40,000	1/10	60°	1.97"	35
8 Watt	GU5.3	81069	MR16EXZ/827/LED	Narrow Flood ◆∞	10-18	2700K	82	590	2700	40,000	1/10	20°	1.97"	50
8 Watt	GU5.3	81085	MR16EXZ/830/LED	Narrow Flood ◆∞	10-18	3000K	82	600	2800	40,000	1/10	20°	1.97"	50
8 Watt	GU5.3	81070	MR16EXN/827/LED	Flood ◆∞	10-18	2700K	82	590	1100	40,000	1/10	40°	1.97"	50
8 Watt	GU5.3	81072	MR16EXN/830/LED	Flood ◆∞	10-18	3000K	82	600	1200	40,000	1/10	40°	1.97"	50
8 Watt	GU5.3	81073	MR16EXN/850/LED	Flood ◆∞	10-18	5000K	82	660	1400	40,000	1/10	40°	1.97"	50
8 Watt	GU5.3	81071	MR16FNV/827/LED	Wide Flood ◆∞	10-18	2700K	82	590	500	40,000	1/10	60°	1.97"	50
8 Watt	GU5.3	81086	MR16FNV/830/LED	Wide Flood ◆∞	10-18	3000K	82	600	520	40,000	1/10	60°	1.97"	50

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
◆ May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
∞ Acceptable for use in sealed metal landscape luminaires when protected from the elements.

■ ProLED MR16 GU10

Specifications

– Halogen–style lens for familiar look and feel
– 25,000 hour life resulting in lower maintenance costs over time
– 120V input voltage
– 80 lumens per watt
– 82 CRI for quality and consistent color rendering
– Dimmable to 5%
– 5-Year Limited Warranty

Markets & Applications

Residential   Commercial   Education   Office   Retail   Healthcare   Hospitality

1.97"
50.0 mm

2.17"
55.1 mm

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
4.5 Watt	GU10	80887	MR16FL4/830/GU10/LED	Flood ◆	120	3000K	82	370	525	25,000 ■	1/10	40°	2.17"	35
6.5 Watt	GU10	80888	MR16FL6/830/GU10/LED	Flood ◆	120	3000K	82	520	730	25,000 ■	1/10	40°	2.17"	50

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
◆ May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
Represents lamps that are ENERGY STAR® certified.
■ ENERGY STAR® mandates that all directional lamps may only be listed at 25,000 hour life with 3,000 hour actual life test data, 6,000 hour LM80 data and in-situ temperature measurements. Upon completion of full lifetime testing, ProLED ENERGY STAR® listed lamps will be listed at their full lifetime.
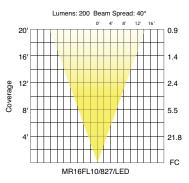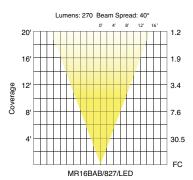
ProLED MR16

Savings Comparison

Total Lifetime Costs

Legend:
- Maintenance Costs˘
- Energy Costs¥
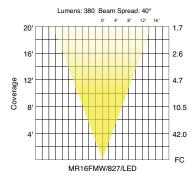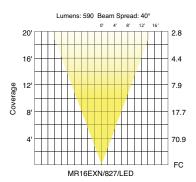
X-axis: 35W Halogen | 4.5W ProLED | 50W Halogen | 8W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
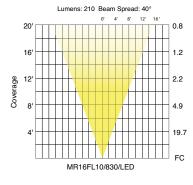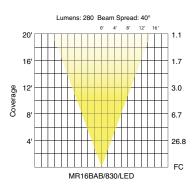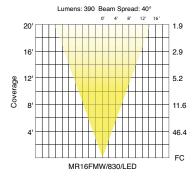¥ Energy costs based on $0.11 kWh over 40,000 hour life.
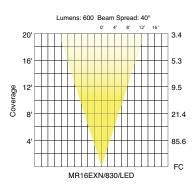
Photometrics

Lumens: 200 Beam Spread: 40°

Coverage	FC
20'	0.9
16'	1.4
12'	2.4
8'	5.5
4'	21.8

MR16FL10/827/LED

Lumens: 270 Beam Spread: 40°

Coverage	FC
20'	1.2
16'	1.9
12'	3.4
8'	7.6
4'	30.5

MR16BAB/827/LED

Lumens: 380 Beam Spread: 40°

Coverage	FC
20'	1.7
16'	2.6
12'	4.7
8'	10.5
4'	42.0

MR16FMW/827/LED

Lumens: 590 Beam Spread: 40°

Coverage	FC
20'	2.8
16'	4.4
12'	7.9
8'	17.7
4'	70.9

MR16EXN/827/LED

Lumens: 210 Beam Spread: 40°

Coverage	FC
20'	0.8
16'	1.2
12'	2.2
8'	4.9
4'	19.7

MR16FL10/830/LED

Lumens: 280 Beam Spread: 40°

Coverage	FC
20'	1.1
16'	1.7
12'	3.0
8'	6.7
4'	26.8

MR16BAB/830/LED

Lumens: 390 Beam Spread: 40°

Coverage	FC
20'	1.9
16'	2.9
12'	5.2
8'	11.6
4'	46.4

MR16FMW/830/LED

Lumens: 600 Beam Spread: 40°

Coverage	FC
20'	3.4
16'	5.3
12'	9.5
8'	21.4
4'	85.6

MR16EXN/830/LED

Halco's ProLED Commercial MR16 offering can be found on page 26.

ProLED

■ ProLED Black MR16

Specifications

- – Three distributions for application flexibility
- – Environmentally friendly
- – Long-Lasting for low maintenance
- – 30,000+ hour life results in lower maintenance costs over time
- – Improved efficiency of ProLED® MR16 series by lowering wattage consumption and increasing light output
- – 82 CRI for quality and consistent color rendering
- – RoHS Compliant
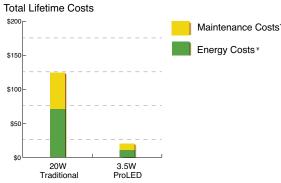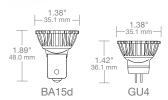- – 3-Year Limited Warranty

NEW!

Markets & Applications

Landscape

2.0"
50.8 mm

1.97"
50.0 mm

Ordering Information

RoHS Compliant

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
3.5 Watt	GU5.3	81103	MR16NFL4/827/LED	Narrow Flood ◆	10-15	2700K	82	250	860	30,000	1/10	20º	1.97"	20
3.5 Watt	GU5.3	81098	MR16FL4/827/LED	Flood ◆	10-15	2700K	82	250	410	30,000	1/10	40º	1.97"	20
3.5 Watt	GU5.3	81099	MR16WFL4/827/LED	Wide Flood ◆	10-15	2700K	82	250	200	30,000	1/10	60º	1.97"	20

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
◆ May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information. Use on incompatible systems may shorten lamp life.
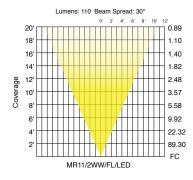Acceptable for use in sealed metal landscape luminaires when protected from the elements.

Savings Comparison

Total Lifetime Costs

- ■ Maintenance Costs˘
- ■ Energy Costs¥

$200
$150
$100
$50
$0

20W Traditional

3.5W ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED MR11

Specifications

– Single point light source option
– High power LED
– Damp location rated available
– 10-18V options
– Dimmable to 5% for design flexibility
– 40,000 hour life
– Available in 2700K and 5000K CCT
– Up-to 82 CRI for quality and consistent color rendering
– Flood or Narrow Flood beam spreads
– UL Listed options
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

1.38"
35.1 mm

1.89"
48.0 mm

BA15d

1.38"
35.1 mm

1.42"
36.1 mm

GU4

Markets & Applications

Residential   Commercial   Education   Retail   Healthcare   Hospitality   Landscape

RoHS Compliant

5 Limited Warranty

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
3 Watt	GU4	81093	MR11FTD/827/LED	Flood	10-18	2700K	82	230	420	40,000	1/10	30°	1.42"	20
3 Watt	BA15d	81094	MR11FTD/827/BA15D/LED	Flood	10-18	2700K	82	230	420	40,000	1/10	30°	1.50"	20
3 Watt	GU4	81095	MR11FTD/850/LED	Flood	10-18	5000K	82	250	500	40,000	1/10	30°	1.42"	20
3 Watt	GU4	81096	MR11FTC/827/LED	Narrow Flood	10-15	2700K	82	230	600	40,000	1/10	22°	1.42"	20

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all dimming systems, dimming performance may vary by system, please visit www.halcolighting.com/ProLEDdim for dimmer compatibility information.
Use on incompatible systems may shorten lamp life.
Acceptable for use in sealed metal landscape luminaires when protected from the elements.
May not be compatible with all electronic transformers. Magnetic transformers are recommended for dimming applications.
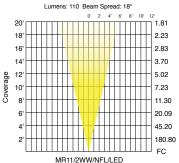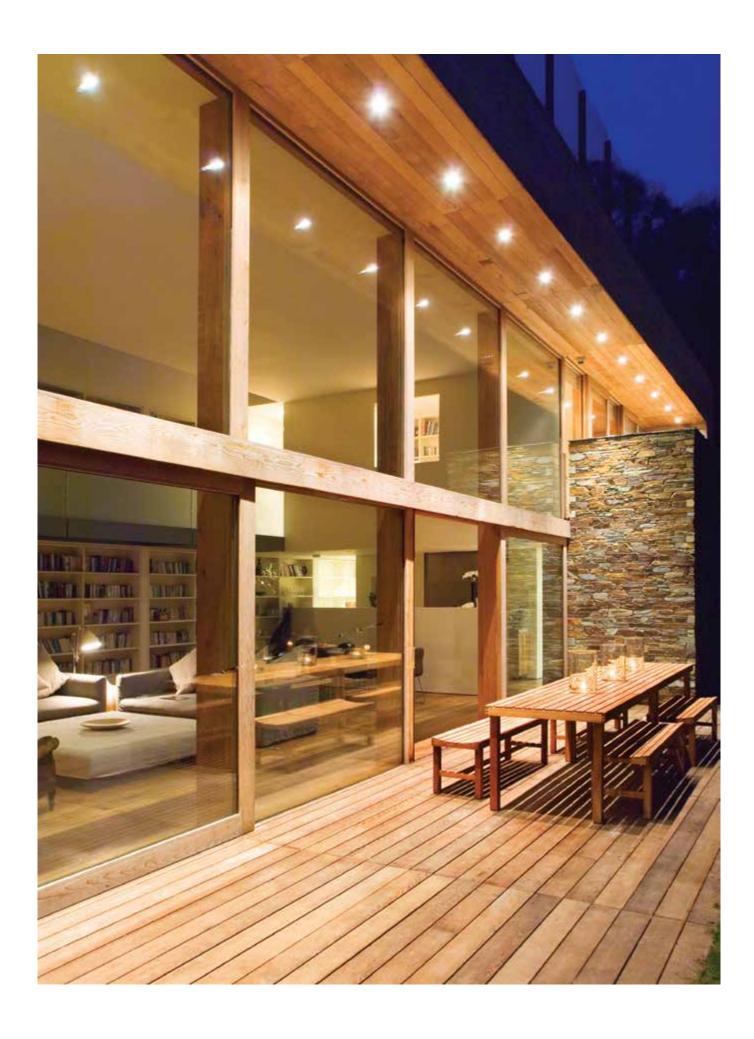Not for use in enclosed luminaires.
Lamps should be tested in the application for compatibility prior to full installations on circuits using such devices.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

$220
$165
$110
$55
$0

20W Halogen   3W ProLED

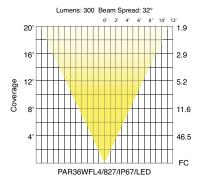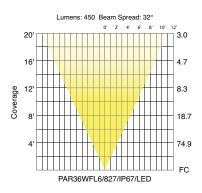˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 60,000 hour life.

Photometrics

Lumens: 110 Beam Spread: 30°

0' 2' 4' 6' 8' 10' 12'

Coverage	FC
20'	0.89
18'	1.10
16'	1.40
14'	1.82
12'	2.48
10'	3.57
8'	5.58
6'	9.92
4'	22.32
2'	89.30

MR11/2WW/FL/LED

Lumens: 110 Beam Spread: 18°

0' 2' 4' 6' 8' 10' 12'

Coverage	FC
20'	1.81
18'	2.23
16'	2.83
14'	3.70
12'	5.02
10'	7.23
8'	11.30
6'	20.09
4'	45.20
2'	180.80

MR11/2WW/NFL/LED

ProLED

ProLED Outdoor PAR36

Specifications

– IP67 rated for waterproof installations
– Energy savings up-to 81% - 6.5W PAR36 versus 35W Halogen[1]
– Multi-purpose base for slip-on or screw terminal connections
– 10-15V input voltage range
– 40,000 hour life, up-to 12 times longer than traditional sources
– Available in 2700K CCT
– 82 CRI for quality and consistent color rendering
– 32° beam spread available for light control
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty

4.50"
114.3 mm

2.40"
61.0 mm

Markets & Applications

Residential   Commercial   Landscape

Ordering Information

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	CBCP	Useful Life*	Pkg. Qty.	Beam Spread	MOL	Wattage Equivalent
4.5 Watt	MP Term	81074	PAR36WFL4/827/IP67/LED	Wide Flood	10-15	2700K	82	300	700	40,000	1/6	32°	2.40"	20
6.5 Watt	MP Term	81075	PAR36WFL6/827/IP67/LED	Wide Flood	10-15	2700K	82	450	1100	40,000	1/6	32°	2.40"	35
12.5 Watt	MP Term	81076	PAR36WFL12/827/IP67/LED	Wide Flood	10-15	2700K	82	800	2000	40,000	1/6	32°	2.40"	50

[1] Energy savings based on $0.11 kWh over 40,000 hour life.
* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
Not for use in enclosed luminaires.
May not be compatible with all electronic transformers.
Rated for outdoor use only.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˅
■ Energy Costs˄

˅ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
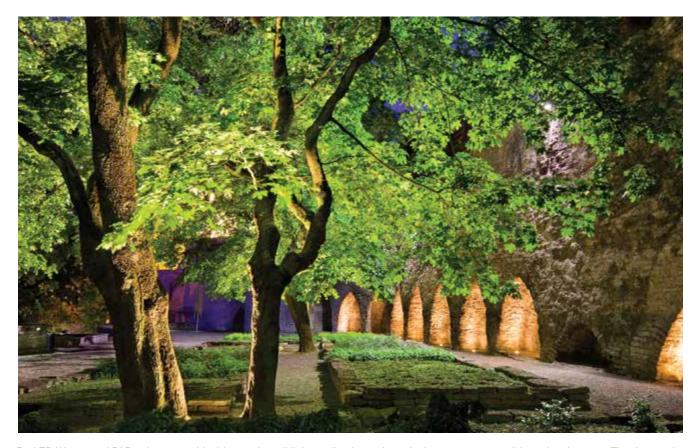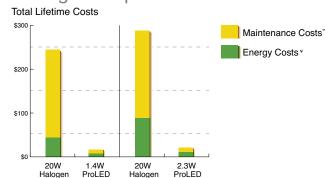˄ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED

Photometrics

Lumens: 300 Beam Spread: 32°

Coverage		FC
20'		1.9
16'		2.9
12'		5.2
8'		11.6
4'		46.5

PAR36WFL4/827/IP67/LED

Lumens: 450 Beam Spread: 32°

Coverage		FC
20'		3.0
16'		4.7
12'		8.3
8'		18.7
4'		74.9

PAR36WFL6/827/IP67/LED

Lumens: 800 Beam Spread: 32°

Coverage		FC
20'		5.1
16'		8.0
12'		14.2
8'		32.0
4'		127.9

PAR36WFL12/827/IP67/LED

ProLED Waterproof PAR36 lamps are ideal for use in well light applications where the lamps are susceptible to the elements. The drama of the landscape is enhanced with the 2700K color.

■ ProLED JC

Specifications

– Directional light output maximizes control and distribution
– Wide variety of base types and body shapes for application versatility
– High power and SMD LED options
– Up-to 88% energy savings - 2.5W JC versus 20W Halogen
– IP65 Rated for high performance and versatility
– 10-18V input voltage range
– Up-to 40,000 hour life, 20 times longer than traditional lamps
– Available in 2700K, 3000K CCT
– 82 CRI for quality and consistent color rendering
– No Mercury or UV/IR emissions
– RoHS Compliant
– 5-Year Limited Warranty on IP65 Rated lamps

Savings Comparison

Total Lifetime Costs

Maintenance Costs˘
Energy Costs¥

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

Markets & Applications

Residential   Commercial   Landscape   Hospitality

Ordering Information

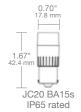| Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
JC2S												
1.4 Watt	G4	81091	JC2S/827/LED2	IP65 Rated	10-15	2700K	82	140	40,000	1/10	0.98"	20
1.4 Watt	G4	81092	JC2S/830/LED2	IP65 Rated	10-15	3000K	82	150	40,000	1/10	0.98"	20
JC2												
2.3 Watt	G4	81109	JC2/827/LED2	Omnidirectional, IP65 Rated	10-15	2700K	82	250	40,000	1/10	1.57"	20
2.3 Watt	G4	81108	JC20/2WW/LED2	Omnidirectional, IP65 Rated	10-15	3000K	82	250	40,000	1/10	1.57"	20
JC10												
1.5 Watt	BA15s	80810	JC10/1WW/BA15S/LED2	IP65 Rated	10-18	3000K	82	100	40,000	1/10	1.93"	10
JC20												
2.3 Watt	BA15s	81100	JC20/2WW/BA15S/LED2	IP65 Rated	10-15	3000K	82	250	40,000	1/10	2.00"	20
1.2 Watt	Wedge	81102	912/1WW/LED2	"	10-15	3000K	82	120	40,000	1/10	1.51"	10
2.3 Watt	Wedge	81101	3155/2WW/LED2	"	10-15	3000K	82	250	40,000	1/10	1.67"	20
2.5 Watt	Wedge	80777	3155/2WW/LED	"	10-18	3000K	82	140	40,000	1/10	2.40"	20

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
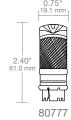May not be compatible with all electronic transformers.
Not for use in enclosed luminaires. Suitable for use in sealed metal landscape luminaires; standard JC lamps require protection from elements.
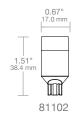IP65 rated lamps are rated for use outdoors where exposed directly to water from rain or irrigation. The lamp is not submersible nor for use in enclosed luminaires. Suitable for use in sealed metal landscape luminaires.

0.70" / 17.8 mm — 1.57" / 40.0 mm — **JC2**

0.78" / 19.8 mm — 0.98" / 24.9 mm — **JC2S**

0.70" / 17.8 mm — 1.67" / 42.4 mm — **JC20 BA15s IP65 rated**

0.75" / 19.1 mm — 2.40" / 61.0 mm — **80777**

0.67" / 17.0 mm — 1.51" / 38.4 mm — **81102**

ProLED

Specifications

– Omnidirectional distribution for smooth, even light
– Available in 2700K, 3000K and 5000K CCT
– Wide variety of wattages and base types for maximum application versatility
– 82 CRI for quality and consistent color rendering
– 10-18V input voltage range
– Amber, Blue, Green or Red color options
– No Mercury or UV/IR emissions
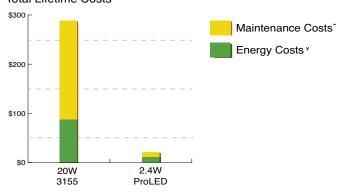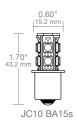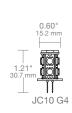– RoHS Compliant
– 2-Year Limited Warranty

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

Markets & Applications

Residential   Commercial   Hospitality   Landscape

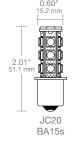| Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
JC10												
1.5 Watt	BA15s	80692	JC10/1WW/BA15S/LED	Omnidirectional	10-18	3000K	82	150	20,000	1/40	1.70"	10
1.5 Watt	G4	80693	JC10/1WW/LED	Omnidirectional	10-18	3000K	82	150	20,000	1/40	1.21"	10
JC20												
1.8 Watt	G4	80782	JC20/2AMB/LED	Omnidirectional Amber	10-18	-	-	-	20,000	1/40	1.81"	-
1.8 Watt	G4	80780	JC20/2BLU/LED	Omnidirectional Blue	10-18	-	-	-	20,000	1/40	1.81"	-
1.8 Watt	G4	80779	JC20/2GRN/LED	Omnidirectional Green	10-18	-	-	-	20,000	1/40	1.81"	-
1.8 Watt	G4	80781	JC20/2RED/LED	Omnidirectional Red	10-18	-	-	-	20,000	1/40	1.81"	-
2.4 Watt	BA15s	80691	JC20/2WW/BA15S/LED	Omnidirectional	10-18	3000K	82	250	20,000	1/40	2.01"	20
2.4 Watt	G4	80833	JC2/827/LED	Omnidirectional	10-18	2700K	82	240	20,000	1/40	1.81"	20
2.4 Watt	G4	80690	JC20/2WW/LED	Omnidirectional	10-18	3000K	82	250	20,000	1/40	1.81"	20
2.4 Watt	G4	80815	JC20/2NW/LED	Omnidirectional	10-18	5000K	82	260	20,000	1/40	1.81"	20
JC35												
4.5 Watt	GY6.35	80830	JC35/4WW/LED	Omnidirectional	10-18	3000K	82	450	20,000	1/30	2.03"	35

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
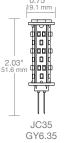May not be compatible with all electronic transformers.
Not for use in enclosed luminaires. Suitable for use in sealed metal landscape luminaires; standard JC lamps require protection from elements.
IP65 rated lamps are rated for use outdoors where exposed directly to water from rain or irrigation. The lamp is not submersible nor for use in enclosed luminaires. Suitable for use in sealed metal landscape luminaires.
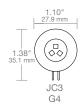
0.60"
15.2 mm
1.70"
43.2 mm
JC10 BA15s

0.60"
15.2 mm
1.21"
30.7 mm
JC10 G4

0.60"
15.2 mm
1.81"
46.0 mm
JC20 G4

0.60"
15.2 mm
2.01"
51.1 mm
JC20 BA15s

0.75"
19.1 mm
2.03"
51.6 mm
JC35 GY6.35

0.43"
10.9 mm
1.18"
30.0 mm
80791

■ ProLED JC

1.10"
27.9 mm

1.38"
35.1 mm

JC3
G4

Watt	Base	Product #	Product Code	Description	Volts	Color Temp.	CRI	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
JC3												
3.3 Watt	G4	**81078**	**JC3VWFL/827/LED**	100° Very Wide Flood	12	2700K	82	200	25,000	1/10	1.38"	20

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.
May not be compatible with all electronic transformers.
Not for use in enclosed luminaires. Suitable for use in sealed metal landscape luminaires; standard JC lamps require protection from elements.
IP65 rated lamps are rated for use outdoors where exposed directly to water from rain or irrigation. The lamp is not submersible nor for use in enclosed luminaires. Suitable for use in sealed metal landscape luminaires.

ProLED

■ ProLED Elevator Lamp

Specifications

– High power LED for maximum efficiency
– Up-to 87% energy savings - 2.6W GBF versus 20W Incandescent
– 10-18V input voltage range
– 40,000 hour life, 20 times longer than traditional lamps
– Available in 2700K CCT
– 82 CRI for quality and consistent color rendering
– No Mercury or UV/IR emissions
– RoHS Compliant
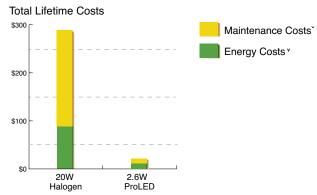– 5-Year Limited Warranty

Markets & Applications

Commercial   Education   Retail   Healthcare   Hospitality

1.5"
38.1 mm

1.5"
38.1 mm

2.52"
64.0 mm

2.52"
64.0 mm

GBF   1383

Ordering Information

Watt	Base	Product #	Product Code	Volts	Color Temp.	CRI	CBCP	Lumens	Useful Life*	Pkg. Qty.	MOL	Wattage Equivalent
2.6 Watt	BA15d	**80756**	GBF/3WW/LED	10-18	2700K	82	410	145	40,000	1/10	2.52"	20
2.6 Watt	BA15s	**80701**	1383/3WW/LED	10-18	2700K	82	410	145	40,000	1/10	2.52"	20

* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to burn past this point at decreased light levels.

Savings Comparison

Total Lifetime Costs

■ Maintenance Costs˘
■ Energy Costs¥

$300

$200

$100

$0

20W
Halogen

2.6W
ProLED

˘ Maintenance costs based on 15 minutes to replace the lamp at $40 per/hr over the life of the ProLED lamp.
¥ Energy costs based on $0.11 kWh over 40,000 hour life.

ProLED

Transformer and Dimmer Compatibility in Commercial and Residential Installations

While LED lamps allow for greater energy savings and longer life, they can be challenging when used in existing applications and luminaires. Compatibility with transformers and dimmers are the most common issues faced in replacement and retrofit applications. There are 3 main transformer types, each with their own advantages and disadvantages when considering an LED retrofit.

Although ProLED lamps are designed to perform well with most available transformers in these categories, ensuring transformer compatibility is crucial to the proper performance and lifetime of ProLED lamps.

Positive	Negative
Magnetic Transformers and LED Lighting	
– Provide a known 60Hz AC power to the LED, which is often accommodated in the design of many LED products – Robust, reliable and available in many different wattages – Relatively inexpensive, comparatively for higher wattages	– Provide AC rather than DC current – Minimum load rating to provide the expected voltage, which can be difficult due to the efficient nature of LEDs – Translate voltage instability from incoming power to output power – Less efficient at power conversion in comparison to electronic transformers – Larger and heavier than the electronic equivalent
Electronic AC Transformers and LED Lighting	
– Can be designed in a very small package and are often integrated into a luminaire – More efficient than a magnetic transformer – At low wattages, they can have a cost advantage due to less material – Less likely to translate voltage instability from incoming power to output power	– Operates at high frequencies which can interfere with or damage LED products – Minimum load rating that can be triggered by the low draw of LED lamps, causing the transformer to think there is a failed lamp and either not working or causing flickering – Less tolerant of heat than magnetic transformers. Must be designed to be dimmed
Electronic DC Transformers and LED Lighting	
– Ideal power supply for most LED products, as almost all LED chips are designed as DC only – Provides a very stable power source, often allowing LED products to perform better – Smaller and lighter than magnetic transformers – Provides less voltage drop on long wiring runs – Do not translate voltage instability from incoming power to output power	– DC transformers are less common in existing applications – Often more expensive than the equivalent electronic AC transformer – Usually larger than electronic AC transformer – Must be designed to be dimmed for dimming applications

For a list of transformers compatible with the ProLED MR16 Series, visit the ProLED Compatibility section at http://www.halcolighting.com/download.

The ProLED offering features a wide variety of dimmable lamps and when used with compatible dimmers common challenges can be avoided. For a comprehensive list of line voltage ProLED and compatible dimmers, visit http://www.halcolighting.com/pdf/ProLEDdim.pdf.

Common Issue	Dimmable ProLED Lamps on Compatible Dimmers
Reduced dimming range	Operate down to 5% of rated lumen output
Lights dropping out	Smooth flicker-free dimming through the lamps dimming range
Lights not turning on	Illuminate at a dimmed light output
Lights turning off unexpectedly	Withstand voltage fluctuations for consistent performance

ProLED

Selecting a Transformer for Low Voltage LED Landscape Lighting

True power consumed is measured in watts. It is what customers are charged for on their utility bill. A lamp's true power (wattage) is listed on the lamp's packaging. When an LED is powered, the lamp's driver converts alternating current (AC) to direct current (DC), which consumes reactive and harmonic power on top of the true power that is required to produce light. The utility must generate additional energy above and beyond the lamp's true power in order to operate the lamp.

The total amount of power that must be generated by the utility is measured in volt amperes (VA) and is referred to as apparent power. Power factor - the ratio of true power to apparent power - is the measure of how efficiently electrical power is consumed. Dividing a lamp's wattage by the lamp's power factor results in the VA drawn on the line - Wattage/Power Factor = Volt-Amperes.

Halogen and Incandescent lamps have a power factor of one, which means that the lamp uses 100% of the input power to produce light and heat. Consequently, filament lamps' wattage and VA are equivalent. For example, a 20W MR16 BAB draws 20VA from the line. For LED installations, apparent power (VA) must be taken into consideration, because transformer size is actually based on apparent power (VA), not true power (W). To specify the correct transformer size, the system's total load must be calculated to ensure that the total volt-ampere draw does not exceed the transformer's rating.

The ProLED installation example below shows system load (total VA), true power consumed (W) and annual energy cost calculations.

1. Calculate Load of LED System	Lamp VA	x	# Lamps	= Total Luminaire Load
Well Light with 6.5W ProLED PAR36	10.9		8	= 87
Modern Bullet with 4.5W ProLED MR16	5		4	= 20
Total System Load				**107**
2. Select Transformer for the LED System Load				
3. Calculate LED Energy Consumption	Lamp Wattage	x	# Lamps	= Power Consumption
Well Light with 6.5W ProLED PAR36	6.5		8	= 52
Modern Bullet with 4.5W ProLED MR16	4.5		4	= 18
Total System Power Consumption				**70**
4. Calculate the LED System's Annual Energy Cost				
Consumption	x	Utility Cost[1]	x	Annual Operating Hours[2]/1000	= Annual Energy Cost
70W		$0.115 kWh		2190 hrs	= $17.63

[1] Utility cost based on national average per U.S. Energy Information Administration - http://www.eia.gov/electricity/data.cfm#summary at the time of printing.
[2] Annual operating hours based on 6 hours/day and 365 days/year.

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