



LED  
**Technology**  
IN A WHOLE NEW LIGHT

**BULBRITE® LED**  
**2015 CATALOG**

# LED Technology

## IN A WHOLE NEW LIGHT

For over 44 years, Bulbrite has been providing the right light to meet your needs. Today, we are presenting the best lighting solutions from **LED technology, in a whole new light.** Offering the broadest range of LED retrofit lamps, Bulbrite's 2015 LED Catalog has over 300 lighting options for a variety of applications.

Today, we encourage you to make every room a showroom by illuminating them in a whole new light!

Bulbrite's distinctions and awards:



Bulbrite is a proud member of:



Bulbrite's online resources:

**Bulbrite.com** **lightopedia.com**

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Find the right lighting option for any application.

Product pages are labeled as shown here:

ELEVA LED Magnetic Retrofit System

Omni-Directional LEDs

Directional LEDs

Commercial LEDs

Specialty LEDs



# Increasing your knowLEDge...

As part of our commitment to education, Bulbrite supports your knowLEDge by providing you with a variety of resources to make the best LED lighting choices for you and your customers.

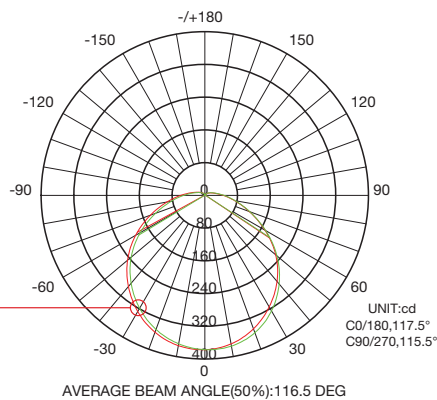
## LED Photometrics

Our family of performance LED products have been tested to LM79 standards. Featured in this catalog are both POLAR DISTRIBUTION and CONICAL ILLUMINANCE graphs pulled directly from LM79 reports generated by NVLAP accredited testing facilities.

### POLAR DISTRIBUTION

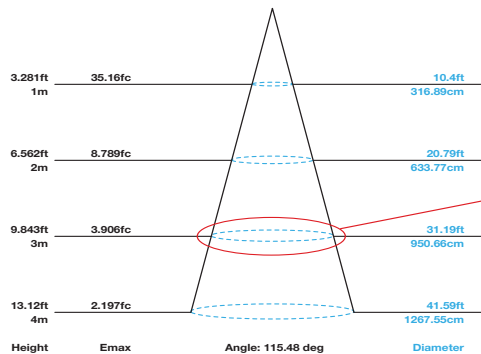
A graphic illustration of light intensity at specific directions from nadir. Intensity is on the vertical axis, and the curve represents brightness at various angles from the source, with the average beam angle beneath. This example chart graphically shows the shape of the smooth beam of our LEDG5 BR40, which mimics an incandescent BR40.

**Example**  
Viewing this light source from a 30° angle, the brightness of the lamp is about 320 cd.



### CONICAL ILLUMINANCE

A graphic illustration of light intensity and beam diameter at a variety of distances from nadir. This graph, for our LEDG5 BR40, illustrates light intensity which is comparable to incandescent light sources.



**Example**  
At nearly 10ft from the source, our LEDG5 BR40 has a light intensity of 3.9 fc with a beam spread diameter of 31.19ft.

**For additional LED resources, visit [Bulbrite.com/LED](http://Bulbrite.com/LED)**



**LIGHTOPEDIA.COM** - Stay educated, stay ahead with this one-step resource for lighting legislation and education needs!



**COMPATIBILITY** – Learn how to use LED retrofit lamps with the appropriate transformers and/or dimmers to maximize performance.



**LIGHTING FACTS** – Read about the Department of Energy's program and see Bulbrite's Lighting Facts verified LED products.



**ENERGY STAR** – View all of our Energy Star certified LED products which meet stringent quality and performance standards.



**PRODUCTS** – See our full line of innovative, high performance and superior quality LED lamps.

# How to use your LED Catalog

## COMPLIANCY ICONS

Indicates the lamp is compliant with the applicable regulation.



## BULBRITE FEATURED ICONS

Indicates specific features of the lamp, including if it is new or a dimmable product.



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## APPLICATION ICONS



## LED SIDE BY SIDE

Comparisons to the technology being replaced by LED highlight NET savings over a 20 year period based on a usage of 3 hours/day and average lamp retail values.

**LED VS. INCANDESCENT** Based on 3 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	12	800	81	25,000	66.7	\$103.33
INCANDESCENT	60	630	100	2,000	10.5	—

## SPECIFICATION TABLE

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	NOTES (PG 43)
6	MR16	GU5.3	771073	*LED6MR16FL/30K	12	1/12	Flood 36°	3000K	82	300	480	25,000	2"	2,3,4,5
		GU10	771171	*LED6MR16GU/30K/D	120	1/12	Flood 36°	3000K	82	300	1255	50,000	2 1/2"	1,3,4,5

Indicates minimum sell quantity (inner) and smallest shipping carton (master)

Brightness at the center of the beam

Measurement of brightness

Average rated life expressed in hours

Maximum overall length in inches

Footnotes can be found on pg 43



4 Parts = Hundreds of Possibilities

**ELEVA**<sup>TM</sup>  
LED MAGNETIC DOWNLIGHT RETROFIT SYSTEM

# ELEVA™

LED MAGNETIC DOWNLIGHT RETROFIT SYSTEM



Ever look up at your ceiling and wish it looked as great as everything else in your home?

Right now, you probably have a different type of light bulb in each recessed can fixture in your home. Over your kitchen counters you need a punch of light, so you screwed in the most powerful flood light available with a small beam. In your living room, you complemented a recent renovation with LED downlight retrofits...too bad you chose your paint color a few weeks after ordering your lights, because the white trims aren't really working with the beautiful deep gray you loved. And just last month, you got a special surprise that a baby's on the way! So now that home office upstairs is set to become a nursery and those spotlights you installed might be too stark for your infant's room.

**Meet the ELEVA™ System:** A better and easier way to treat your ceilings the way they deserve to be treated.

4 parts that create hundreds of possibilities.

ELEVA™ is a 4-part LED Magnetic Downlight Retrofit System that allows you to quickly and easily customize the look and lighting style of any room. With over 1,800 possible finish, trim, and lighting combinations, the ELEVA System is easy to install and provides you with a fully customizable designer look at an affordable price.

Neodymium magnets make it possible to swap in different light engine, reflector, and trim elements — no tools required. And the LEDs offer energy efficiency with an average life of 25,000 hours.

Elevate your look with ELEVA™.

## MEET THE ELEVA SYSTEM

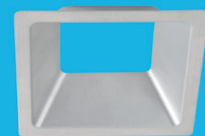
### 01 HOUSING



### 02 LIGHT ENGINE



### 03 REFLECTOR



### 04 TRIM



# ELEVA™

## 01 HOUSING ADAPTOR

- Connector makes it easy to install
- Standard (E26) base socket simply screws into existing 4" recessed cans
- Fits most recessed cans. Housing Compatibility Guide available at [www.bulbrite.com/ELEVA](http://www.bulbrite.com/ELEVA).



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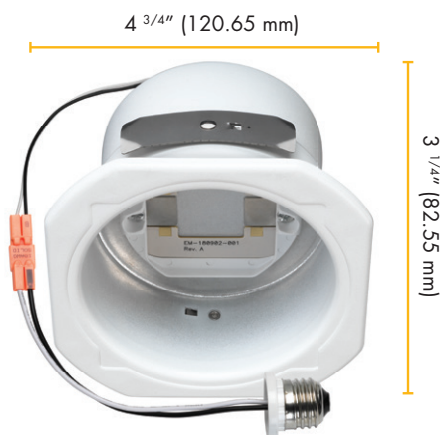
ITEM #	ORDERING CODE	INNER/MASTER	DESCRIPTION	M.O.L.	M.O.D.	NOTES (PG 43)
775590	LEDMAG4/HS	1/12	4" Housing	3 1/4"	4 3/4"	7

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)



ELEVA™ Counter Display  
**Item #900028**  
**Ord. Code: ELEVA/DIS/COUNTER**  
**\$375.00 VALUE**  
*Call for promotional details.*

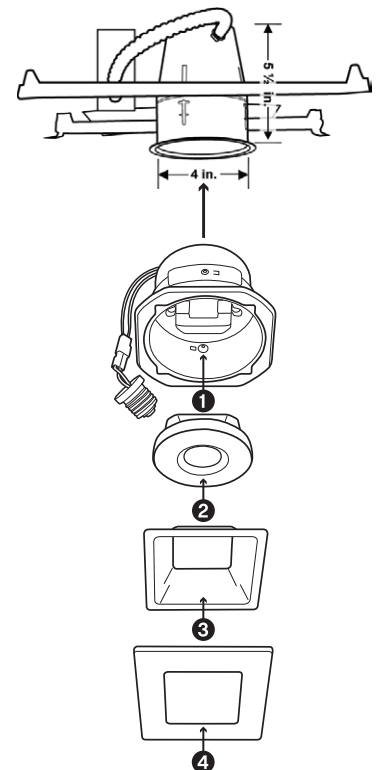
The ELEVA Counter Display features a recessed housing and dimmer allowing users to interact and experience ELEVA. The display tray below showcases all accessory options. ELEVA Brochures are included.



**Housing Adaptor**  
 4" Medium Base (E26)  
 LEDMAG4/HS

### The ELEVA 4-part system:

- 1 4" DOWNLIGHT HOUSING ADAPTOR
- 2 DIMMABLE LED LIGHT ENGINE
- 3 REFLECTOR
- 4 TRIM







# ELEVA™

## 02 LIGHT ENGINES

- Each light engine is fully dimmable. Dimmer Compatibility Guide available at [www.bulbrite.com/ELEVA](http://www.bulbrite.com/ELEVA).
- Strong rare earth magnets made from neodymium snap your light engine securely in place making it easy to install.
- 90 CRI Light Engines are Title 24 Compliant



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WATTS	BULB TYPE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)		
11	LED PUCK	775600	LED11MAG/927WFL/WH	24	4/32	W. Flood 60°	White	2700K	90	650	25,000	3/4"	2 3/4"	1,7		
		775601	LED11MAG/927FL/WH	24	4/32	Flood 36°	White	2700K	90	650	25,000	3/4"	2 3/4"	1,7		
		775602	LED11MAG/927NFL/WH	24	4/32	N. Flood 22°	White	2700K	90	650	25,000	3/4"	2 3/4"	1,7		
		775603	LED11MAG/930WFL/WH	24	4/32	W. Flood 60°	White	3000K	90	650	25,000	3/4"	2 3/4"	1,7		
		775604	LED11MAG/930FL/WH	24	4/32	Flood 36°	White	3000K	90	650	25,000	3/4"	2 3/4"	1,7		
		775605	LED11MAG/930NFL/WH	24	4/32	N. Flood 22°	White	3000K	90	650	25,000	3/4"	2 3/4"	1,7		
		775610	LED11MAG/830WFL/WH	24	4/32	W. Flood 60°	White	3000K	80	800	25,000	3/4"	2 3/4"	1,7		
		775611	LED11MAG/830FL/WH	24	4/32	Flood 36°	White	3000K	80	800	25,000	3/4"	2 3/4"	1,7		
		775612	LED11MAG/830NFL/WH	24	4/32	N. Flood 22°	White	3000K	80	800	25,000	3/4"	2 3/4"	1,7		
		775613	LED11MAG/827WFL/WH	24	4/32	W. Flood 60°	White	2700K	80	800	25,000	3/4"	2 3/4"	1,7		
		775614	LED11MAG/827FL/WH	24	4/32	Flood 36°	White	2700K	80	800	25,000	3/4"	2 3/4"	1,7		
		775615	LED11MAG/827NFL/WH	24	4/32	N. Flood 22°	White	2700K	80	800	25,000	3/4"	2 3/4"	1,7		
		11	LED PUCK	775620	LED11MAG/927WFL/BK	24	4/32	W. Flood 60°	Black	2700K	90	650	25,000	3/4"	2 3/4"	1,7
				775621	LED11MAG/927FL/BK	24	4/32	Flood 36°	Black	2700K	90	650	25,000	3/4"	2 3/4"	1,7
				775622	LED11MAG/927NFL/BK	24	4/32	N. Flood 22°	Black	2700K	90	650	25,000	3/4"	2 3/4"	1,7
775623	LED11MAG/930WFL/BK			24	4/32	W. Flood 60°	Black	3000K	90	650	25,000	3/4"	2 3/4"	1,7		
775624	LED11MAG/930FL/BK			24	4/32	Flood 36°	Black	3000K	90	650	25,000	3/4"	2 3/4"	1,7		
775625	LED11MAG/930NFL/BK			24	4/32	N. Flood 22°	Black	3000K	90	650	25,000	3/4"	2 3/4"	1,7		
775630	LED11MAG/830WFL/BK			24	4/32	W. Flood 60°	Black	3000K	80	800	25,000	3/4"	2 3/4"	1,7		
775631	LED11MAG/830FL/BK			24	4/32	Flood 36°	Black	3000K	80	800	25,000	3/4"	2 3/4"	1,7		
775632	LED11MAG/830NFL/BK			24	4/32	N. Flood 22°	Black	3000K	80	800	25,000	3/4"	2 3/4"	1,7		
775633	LED11MAG/827WFL/BK			24	4/32	W. Flood 60°	Black	2700K	80	800	25,000	3/4"	2 3/4"	1,7		
775634	LED11MAG/827FL/BK	24	4/32	Flood 36°	Black	2700K	80	800	25,000	3/4"	2 3/4"	1,7				
775635	LED11MAG/827NFL/BK	24	4/32	N. Flood 22°	Black	2700K	80	800	25,000	3/4"	2 3/4"	1,7				

### Magnetic Light Engines

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

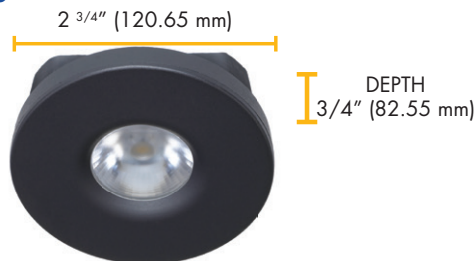
**LED = Incandescent**

**11W (90 CRI) = 60W**

**11W (80 CRI) = 75W**



**WHITE**  
STANDARD OR HIGH CRI



**BLACK**  
STANDARD OR HIGH CRI

# ELEVA™

## 03 REFLECTORS

- ELEVA reflectors are compatible with round and square ELEVA trims — though we don't recommend square reflectors with round trims.
- Available in white, black, bronze, chrome, and brushed nickel.

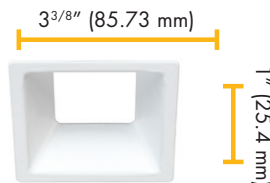
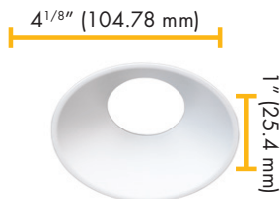


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ITEM TYPE	ITEM #	ORDERING CODE	INNER/MASTER	DESCRIPTION	M.O.L.	M.O.D.
ROUND REFLECTOR	775720	LEDMAG4/RRWH	1/12	Reflector - Round White	1"	4 1/8"
	775721	LEDMAG4/RRBK	1/12	Reflector - Round Black	1"	4 1/8"
	775722	LEDMAG4/RRBZ	1/12	Reflector - Round Bronze	1"	4 1/8"
	775723	LEDMAG4/RRCH	1/12	Reflector - Round Chrome	1"	4 1/8"
	775724	LEDMAG4/RRNI	1/12	Reflector - Round Brushed Nickel	1"	4 1/8"
SQUARE REFLECTOR	775725	LEDMAG4/RSWH	1/12	Reflector - Square White	1"	3 3/8"
	775726	LEDMAG4/RSBK	1/12	Reflector - Square Black	1"	3 3/8"
	775727	LEDMAG4/RSBZ	1/12	Reflector - Square Bronze	1"	3 3/8"
	775728	LEDMAG4/RSCH	1/12	Reflector - Square Chrome	1"	3 3/8"
	775729	LEDMAG4/RSNI	1/12	Reflector - Square Brushed Nickel	1"	3 3/8"



For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

### Reflectors Round



### Reflectors Square





# ELEVA™ 04 TRIMS

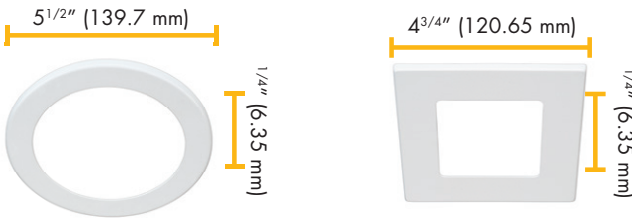
- ELEVA trims are compatible with round and square ELEVA trims — though we don't recommend square reflectors with round trims.
- Available in white, black, bronze, chrome, and brushed nickel.
- Ultra-strong neodymium magnets easily snap onto the unit, no tools required and hold ELEVA components together securely.



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ITEM TYPE	ITEM #	ORDERING CODE	INNER/MASTER	DESCRIPTION	M.O.L.	M.O.D.
ROUND TRIM	775700	LEDMAG4/TRWH	1/12	Trim - Round White	1/4"	5 1/2"
	775701	LEDMAG4/TRBK	1/12	Trim - Round Black	1/4"	5 1/2"
	775702	LEDMAG4/TRBZ	1/12	Trim - Round Bronze	1/4"	5 1/2"
	775703	LEDMAG4/TRCH	1/12	Trim - Round Chrome	1/4"	5 1/2"
	775704	LEDMAG4/TRNI	1/12	Trim - Round Brushed Nickel	1/4"	5 1/2"
SQUARE TRIM	775705	LEDMAG4/TSWH	1/12	Trim - Square White	1/4"	4 3/4"
	775706	LEDMAG4/TSBK	1/12	Trim - Square Black	1/4"	4 3/4"
	775707	LEDMAG4/TSBZ	1/12	Trim - Square Bronze	1/4"	4 3/4"
	775708	LEDMAG4/TSCH	1/12	Trim - Square Chrome	1/4"	4 3/4"
	775709	LEDMAG4/TSNI	1/12	Trim - Square Brushed Nickel	1/4"	4 3/4"



For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

### Trims Round



Item #: 775700  
Ordering Code:  
LEDMAG4/TRWH

Item #: 775701  
Ordering Code:  
LEDMAG4/TRBK

Item #: 775702  
Ordering Code:  
LEDMAG4/TRBZ

Item #: 775703  
Ordering Code:  
LEDMAG4/TRCH

Item #: 775704  
Ordering Code:  
LEDMAG4/TRNI

### Trims Square



Item #: 775705  
Ordering Code:  
LEDMAG4/TSWH

Item #: 775706  
Ordering Code:  
LEDMAG4/TSBK

Item #: 775707  
Ordering Code:  
LEDMAG4/TSBZ

Item #: 775708  
Ordering Code:  
LEDMAG4/TSCH

Item #: 775709  
Ordering Code:  
LEDMAG4/TSNI

# CREATE AN INVITING EXPERIENCE WITH OMNI-DIRECTIONAL LEDS

Providing you with a variety of shapes, sizes and color temperatures, we're sure that you can create an inviting experience in any space. Bulbrite is focused on designing and manufacturing LED retrofit lamps which not only meet your light output needs, but also deliver the color consistency and light quality which you desire.

Perfect for transforming chandelier and portable lighting fixtures, our omni-directional series of lamps will enhance design spaces in homes, hotels, retail and other areas while saving on energy and maintenance costs.





# LED NOSTALGIC FILAMENTS

## ANTIQUE

- LED Filament bulbs simulate incandescent light source filaments
- LED Nostalgic Filament lamps feature a tinted glass and long LED Filaments that look like their Nostalgic counterparts
- A thin, clear coating of silicone covers glass in compliance with UL standards
- Ideal for use in clear or open fixtures as a decorative accent



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
4	G25	E26	776500	LED4G25/22K/FIL-NOS	120	1/10	Antique	2200K	80	350	15,000	4 1/2"	3 1/8"	5
	ST18	E26	776501	LED4ST18/22K/FIL-NOS	120	1/10	Antique	2200K	80	350	15,000	5"	2 3/8"	5

LED = Incandescent  
4W = 60W

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)



**Filament G25**  
**Non-Dimmable**

ANTIQUE

LED4G25/22K/FIL-NOS



**Filament ST18**  
**Non-Dimmable**

ANTIQUE

LED4ST18/22K/FIL-NOS

# LED FILAMENTS STANDARD



- LED Filament bulbs simulate incandescent light source filaments
- Light output equivalent to standard incandescent counterparts
- A thin, clear coating of silicone covers glass in compliance with UL standards
- Ideal for general purpose and sign lighting applications

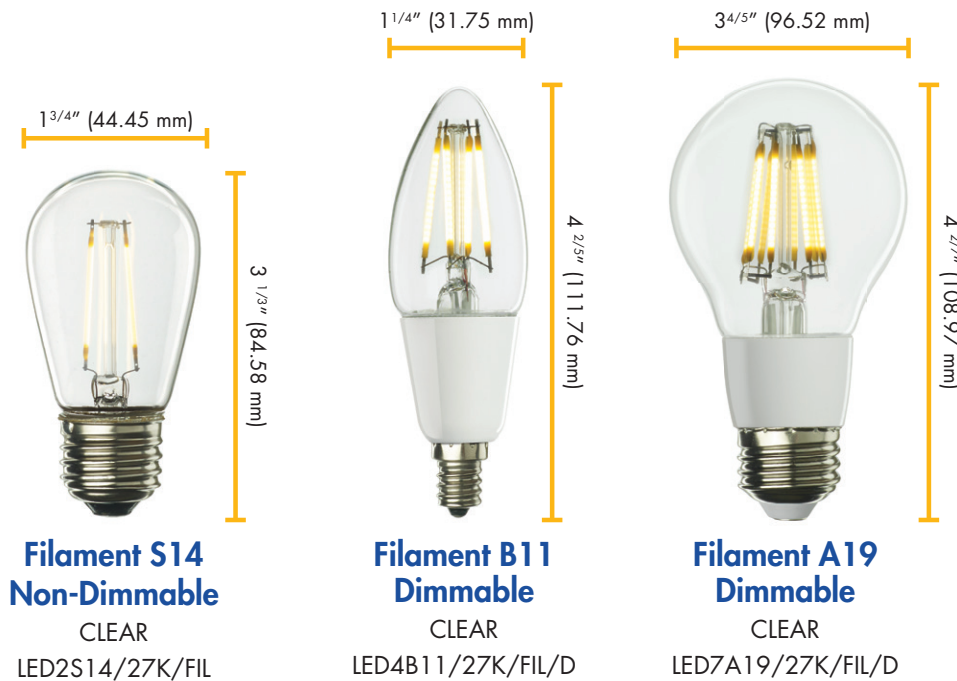


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WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
2	S14	E26	776551	LED2S14/27K/FIL	120	1/10	Clear Non-Dimmable	2700K	80	120	15,000	3 1/3"	1 3/4"	5
4	B11	E12	776552	LED4B11/27K/FIL/D	120	1/10	Clear Dimmable	2700K	80	400	15,000	4 2/5"	1 1/4"	1, 5
7	A19	E26	776550	LED7A19/27K/FIL/D	120	1/10	Clear Dimmable	2700K	80	700	15,000	4 2/7"	3 4/5"	1, 5

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

**LED = Incandescent**  
 2W = 25W  
 4W = 60W  
 7W = 60W



# LED A19 & CHANDELIER MEDIUM BASE (E26), CANDELABRA (E12)



- True shape A19 closely resembles incandescents and halogens
- Unique chip array in A19 offers 300° of illumination for maximum luminous spread
- 3W LED Chandelier smooth heatsink and true shape closely resembles incandescents
- 5W LED Chandelier matches light output of popular 40W incandescent chandeliers
- Ideal for residential and commercial applications most commonly used in chandeliers, ceiling fixtures and portables



**DIMMABLE**  
by design



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
3	B10	E26	770404	LED3CTC/E	120	1/25	Warm White	2700K	80	170	25,000	3 4/9"	1 1/4"	5
5	B11	E12	770406	*LED5CTC/27K/D	120	1/25	Warm White Dimmable	2700K	80	280	50,000	4 1/5"	1 3/8"	1,3,4,5
			770409	*LED5CTC/30K/D	120	1/25	Soft White Dimmable	3000K	80	300	50,000	4 1/5"	1 3/8"	1,3,4,5
11	A19	E26	774101	LED11A19/827/D	120	1/10	Warm White Dimmable	2700K	80	800	25,000	4 1/8"	2 5/8"	1,3,4,5

LED = Incandescent

- 3W = 25W
- 5W 280lm = 25W
- 5W 300lm = 40W
- 11W = 60W

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

\* = Energy Star



**Dimmable A19 True Shape E26**  
FROST  
LED11A19/827/D



**Non-Dimmable Chandelier E12**  
CLEAR  
LED3CTC/E  
(Includes E26 Adaptor)



**Dimmable Chandelier E12**  
CLEAR  
LED5CTC/27K/D  
LED5CTC/30K/D  
(Includes E26 Adaptor)

### SIDE BY SIDE

LED vs. INCANDESCENT Based on 3 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	5	300	80	25,000	50	\$70.05
INCANDESCENT	40	350	100	1,500	8.8	—

### SIDE BY SIDE

LED vs. INCANDESCENT Based on 3 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	11	800	80	25,000	72.7	\$100.34
INCANDESCENT	60	630	100	2,000	10.5	—



# LED GLOBE CANDELABRA (E12), MEDIUM BASE (E26)



- G16 - Super high power chip provides brightest LED light
- G25 - High performance driver offers smooth dimming and is compatible with a variety of dimmers
- Ideal for residential and commercial applications most commonly used in chandeliers, pendants and vanities



**DIMMABLE**  
by design

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
2.5	G16	E12	770145	LED/G16/E12	120	1/25	Warm White	2700K	80	210	15,000	3"	2"	6
8	G25	E26	775252	LED8G25/O/27K/D	120	1/12	Warm White Dimmable	2700K	80	550	25,000	4 1/2"	3 1/10"	1,4,5

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

**LED = Incandescent**  
2.5W = 25W  
8W = 60W



## SIDE BY SIDE

### LED vs. INCANDESCENT

Based on 3 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	8	550	80	25,000	69	\$105.14
INCANDESCENT	60	675	100	2,500	4.3	-

**BULBRITE®**

# FOCUSED LIGHT WHERE **YOU NEED IT** WITH **DIRECTIONAL LEDS**

Optimize the functionality in your space by focusing light where you need it. Offering you a variety of directional light sources in various bases, color temperatures and beam spreads, Bulbrite provides a solution for every space.

By utilizing spotlighting effects, you can highlight specific areas in your room important to your overall design. With Bulbrite's wide variety of lighting options you are empowered to select the appropriate amount of light for any focal point.





# LED MR11 & MR16

## 12V (GU5.3), 120V (GU10), 120V (E26)

- No warm-up time, instant-on with full-light output and stable color
- High performance driver offers smooth dimming and is compatible with a variety of dimmers (120V)
- Ideal for residential and commercial applications most commonly used in track lighting and recessed lighting



**DIMMABLE**  
by design



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	CBPC	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
3.5	MR11	GU4	771500	LED3MR11NF/30K	12	10/50	Soft White	3000K	80	150	-	25,000	1 1/2"	1 3/8"	2
6	MR16	GU5.3	771074	*LED6MR16FL/30K/DIM	12	1/12	Flood 36°	3000K	85	350	590	25,000	2"	1 8/9"	M,1,2,3,4,5
			771075	*LED6MR16NF/30K/DIM	12	1/12	N. Flood 23°	3000K	85	350	1300	25,000	2"	1 8/9"	M,1,2,3,4,5
			771073	*LED6MR16FL/30K	12	1/10	Flood 36°	3000K	82	300	480	25,000	2"	2"	2,3,4,5
		GU10	771171	*LED6MR16GU/30K/D	120	1/10	Flood 36°	3000K	82	300	1255	50,000	2 1/2"	2"	2,3,4,5
		E26	771200	*LED6MR16SW/D/E26	120	1/12	Flood 36°	3000K	80	300	1047	50,000	2 1/6"	2"	1,3,4,5

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)  
\* = Energy Star



**Non-Dimmable MR11**  
**(12V) GU5.3**  
LED3MR11NF/30K

**LED = Halogen**  
3.5W = 20W  
6W 12V = 25W  
6W 120V GU5.3 = 35W  
6W 120V E26 = 20W



**Dimmable MR16**  
**(12V) GU5.3**  
LED6MR16NF/30K/DIM  
LED6MR16FL/30K/DIM



**Non-Dimmable MR16**  
**(12V) GU5.3**  
LED6MR16FL/30K



**Dimmable MR16**  
**(120V) GU10**  
LED6MR16GU/30K/D



**Dimmable MR16**  
**(120V) E26**  
LED6MR16SW/D/E26

### SIDE BY SIDE LED vs. HALOGEN

Based on 3 hrs/day, 11¢/kWh, average retail price

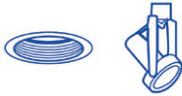
	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	6	300	82	50,000	50	\$109.75
HALOGEN	35	225	100	2,000	6.4	-

# LED DIMMABLE PARs

## TRUE SHAPE PAR20, PAR30 LONG NECK, PAR38



- Chip On Board (COB) provides improved heat dissipation, increased thermal conductivity and uniform lighting
- High performance driver offers smooth dimming and is compatible with a variety of dimmers
- Smooth heatsink and true shape closely resembles halogens
- Ideal for residential and commercial applications most commonly used in recessed and track lighting



**DIMMABLE**  
by design

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	NOTES (PG 43)
8	PAR20	E26	773251	*LED8PAR20NF/830/D	120	1/10	N. Flood 25°	3000K	80	500	1568	30,000	3 1/2"	1,3,4,5
			773254	*LED8PAR20FL/830/D	120	1/10	Flood 40°	3000K	80	500	951	30,000	3 1/2"	1,3,4,5
			773253	*LED8PAR20WFL/830/D	120	1/10	W. Flood 60°	3000K	80	500	669	30,000	3 1/2"	1,3,4,5
15	PAR30	E26	773374	*LED15PAR30NF/830/D	120	1/10	N. Flood 25°	3000K	80	800	3431	30,000	4 3/5"	1,3,4,5
			773376	*LED15PAR30FL/830/D	120	1/10	Flood 40°	3000K	80	800	1890	30,000	4 3/5"	1,3,4,5
			773375	*LED15PAR30WFL/830/D	120	1/10	W. Flood 60°	3000K	80	800	1225	30,000	4 3/5"	1,3,4,5
16	PAR38	E26	773458	*LED16PAR38NF/830/D	120	1/10	N. Flood 25°	3000K	80	950	3714	30,000	5 1/10"	1,3,4,5
			773460	*LED16PAR38FL/830/D	120	1/10	Flood 40°	3000K	80	950	1824	30,000	5 1/10"	1,3,4,5
			773459	*LED16PAR38WFL/830/D	120	1/10	W. Flood 60°	3000K	80	950	1284	30,000	5 1/10"	1,3,4,5

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

\* = Energy Star

**LED = Halogen**

8W = 50W

15W = 75W

16W = 90W



### Dimmable PAR20 True Shape

LED8PAR20NF/830/D  
LED8PAR20FL/830/D  
LED8PAR20WFL/830/D



### Dimmable PAR30 Long Neck True Shape

LED15PAR30NF/830/D  
LED15PAR30FL/830/D  
LED15PAR30WFL/830/D



### Dimmable PAR38 True Shape

LED16PAR38NF/830/D  
LED16PAR38FL/830/D  
LED16PAR38WFL/830/D

# LED DIMMABLE REFLECTORS

## TRUE SHAPE R20, BR30, BR40 MEDIUM BASE (E26)

- Chip On Board (COB) provides improved heat dissipation, increased thermal conductivity and uniform lighting
- High performance driver offers smooth dimming and is compatible with a variety of dimmers
- Smooth heatsink and true shape closely resembles incandescents and halogens
- Ideal for residential and commercial applications most commonly used in recessed and track lighting



**DIMMABLE**  
by design



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	NOTES (PG 43)
8	R20	E26	773258	*LED8R20/827/D	120	1/10	Warm White	2700K	80	500	198	25,000	3 9/10"	1,3,4,5
			773257	*LED8R20/830/D	120	1/10	Soft White	3000K	80	500	204	25,000	3 9/10"	1,3,4,5
15	BR30	E26	773358	*LED15BR30/827/D	120	1/10	Warm White	2700K	80	1000	393	30,000	5 1/5"	1,3,4,5
			773357	*LED15BR30/830/D	120	1/10	Soft White	3000K	80	1000	368	30,000	5 1/5"	1,3,4,5
16	BR40	E26	773454	*LED16BR40/827/D	120	1/10	Warm White	2700K	80	1300	385	30,000	6 1/2"	1,3,4,5
			773457	*LED16BR40/830/D	120	1/10	Soft White	3000K	80	1300	384	30,000	6 1/2"	1,3,4,5

For the most current product information, see [www.bulbrite.com](http://www.bulbrite.com)

\* = Energy Star

LED = Halogen

8W = 50W

15W = 80W

16W = 95W



**Dimmable BR40 True Shape**

LED16BR40/827/D  
LED16BR40/830/D



**Dimmable BR30 Long Neck True Shape**

LED15BR30/827/D  
LED15BR30/830/D



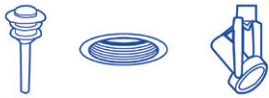
**Dimmable R20 True Shape**

LED8R20/827/D  
LED8R20/830/D

# SORAA® V3 VMD & CONSTANT CURRENT MR16 GU5.3 12V DIMMABLE



- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 6000Cd for 95CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- CUL rated for 12VAC NEC Class 1 and Class 2 systems
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID and VIVID CONSTANT CURRENT lamps offer excellent color rendering – CRI = 95, R9 = 95
- CONSTANT CURRENT lamps are designed to work with external constant current drive, eliminating transformers and providing perfect compatibility with a host of dimmers.



**DIMMABLE**  
by design

LED = Halogen  
6W = 35W  
7.5W = 50W  
9W = 60W

WATTS BULB TYPE BASE ITEM # ORDERING CODE VOLTS INNER/MASTER BEAM ANGLE COLOR TEMP. CRI LUMENS CBCP AVERAGE RATED LIFE M.O.L. M.O.D.

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
6	MR16	GU5.3	777050	SM16-06-25D-927-03	12	1/10	N. Flood 25°	2700K	95	275	1570	35,000	1 7/8"	1 15/16"
			777051	SM16-06-36D-927-03	12	1/10	Flood 36°	2700K	95	285	740	35,000	1 7/8"	1 15/16"
			777052	SM16-06-25D-930-03	12	1/10	N. Flood 25°	3000K	95	310	1710	35,000	1 7/8"	1 15/16"
			777053	SM16-06-36D-930-03	12	1/10	Flood 36°	3000K	95	310	810	35,000	1 7/8"	1 15/16"
7.5	MR16	GU5.3	777054	SM16-07-10D-927-03	12	1/10	Spot 10°	2700K	95	380	5560	35,000	1 7/8"	1 15/16"
			777055	SM16-07-25D-927-03	12	1/10	N. Flood 25°	2700K	95	400	2210	35,000	1 7/8"	1 15/16"
			777056	SM16-07-36D-927-03	12	1/10	Flood 36°	2700K	95	400	1040	35,000	1 7/8"	1 15/16"
			777057	SM16-07-10D-930-03	12	1/10	Spot 10°	3000K	95	410	6000	35,000	1 7/8"	1 15/16"
			777058	SM16-07-25D-930-03	12	1/10	N. Flood 25°	3000K	95	435	2400	35,000	1 7/8"	1 15/16"
			777059	SM16-07-36D-930-03	12	1/10	Flood 36°	3000K	95	435	1130	35,000	1 7/8"	1 15/16"
			777060	SM16-07-10D-940-03	12	1/10	Spot 10°	4000K	95	430	6290	35,000	1 7/8"	1 15/16"
			777061	SM16-07-25D-940-03	12	1/10	N. Flood 25°	4000K	95	455	2510	35,000	1 7/8"	1 15/16"
			777062	SM16-07-36D-940-03	12	1/10	Flood 36°	4000K	95	455	1190	35,000	1 7/8"	1 15/16"
			777063	SM16-07-10D-950-03	12	1/10	Spot 10°	5000K	95	430	6290	35,000	1 7/8"	1 15/16"
			777064	SM16-07-25D-950-03	12	1/10	N. Flood 25°	5000K	95	455	2510	35,000	1 7/8"	1 15/16"
			777065	SM16-07-36D-950-03	12	1/10	Flood 36°	5000K	95	455	1190	35,000	1 7/8"	1 15/16"
9	MR16	GU5.3	777066	SM16-09-25D-927-03	12	1/10	N. Flood 25°	2700K	95	455	2510	35,000	1 7/8"	1 15/16"
			777067	SM16-09-36D-927-03	12	1/10	Flood 36°	2700K	95	455	1190	35,000	1 7/8"	1 15/16"
			777068	SM16-09-25D-930-03	12	1/10	N. Flood 25°	3000K	95	490	2700	35,000	1 7/8"	1 15/16"
			777069	SM16-09-36D-930-03	12	1/10	Flood 36°	3000K	95	490	1280	35,000	1 7/8"	1 15/16"
CONSTANT CURRENT	MR16	GU5.3	777150	SM16C-CC1-10D-927-03	-	1/10	Spot 10°	2700K	95	485	7120	35,000	2"	1 4/5"
			777151	SM16C-CC1-25D-927-03	-	1/10	N. Flood 25°	2700K	95	515	2860	35,000	2"	1 4/5"
			777152	SM16C-CC1-36D-927-03	-	1/10	Flood 36°	2700K	95	515	1360	35,000	2"	1 4/5"
			777153	SM16C-CC1-10D-930-03	-	1/10	Spot 10°	3000K	95	525	7700	35,000	2"	1 4/5"
			777154	SM16C-CC1-25D-930-03	-	1/10	N. Flood 25°	3000K	95	550	3060	35,000	2"	1 4/5"
			777155	SM16C-CC1-36D-930-03	-	1/10	Flood 36°	3000K	95	550	1460	35,000	2"	1 4/5"
			777156	SM16C-CC1-10D-940-03	-	1/10	Spot 10°	4000K	95	550	8060	35,000	2"	1 4/5"
			777157	SM16C-CC1-25D-940-03	-	1/10	N. Flood 25°	4000K	95	580	3220	35,000	2"	1 4/5"
			777158	SM16C-CC1-36D-940-03	-	1/10	Flood 36°	4000K	95	580	1520	35,000	2"	1 4/5"

VIVID

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

# SORAA® V3 BRILLIANT MR16 GU5.3 12V DIMMABLE

- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 7300Cd for 80CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- CUL rated for 12VAC NEC Class 1 and Class 2 systems
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- BRILLIANT lamps offer higher light output



**DIMMABLE**  
by design



BRILLIANT

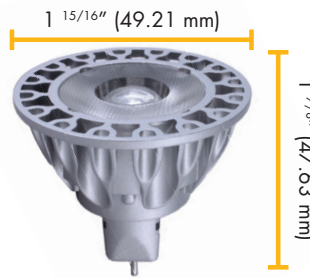
WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
6	MR16	GU5.3	777070	SM16-06-25D-827-03	12	1/10	N. Flood 25°	2700K	80	345	1900	35,000	1 7/8"	1 15/16"
			777071	SM16-06-36D-827-03	12	1/10	Flood 36°	2700K	80	345	900	35,000	1 7/8"	1 15/16"
			777072	SM16-06-25D-830-03	12	1/10	N. Flood 25°	3000K	80	375	2070	35,000	1 7/8"	1 15/16"
			777073	SM16-06-36D-830-03	12	1/10	Flood 36°	3000K	80	375	980	35,000	1 7/8"	1 15/16"
7.5	MR16	GU5.3	777074	SM16-07-10D-827-03	12	1/10	Spot 10°	2700K	80	465	6810	35,000	1 7/8"	1 15/16"
			777075	SM16-07-25D-827-03	12	1/10	N. Flood 25°	2700K	80	485	2680	35,000	1 7/8"	1 15/16"
			777076	SM16-07-36D-827-03	12	1/10	Flood 36°	2700K	80	485	1270	35,000	1 7/8"	1 15/16"
			777077	SM16-07-10D-830-03	12	1/10	Spot 10°	3000K	80	500	7320	35,000	1 7/8"	1 15/16"
			777078	SM16-07-25D-830-03	12	1/10	N. Flood 25°	3000K	80	525	2900	35,000	1 7/8"	1 15/16"
			777079	SM16-07-36D-830-03	12	1/10	Flood 36°	3000K	80	525	1370	35,000	1 7/8"	1 15/16"
9	MR16	GU5.3	777080	SM16-09-25D-827-03	12	1/10	N. Flood 25°	2700K	80	550	3040	35,000	1 7/8"	1 15/16"
			777081	SM16-09-36D-827-03	12	1/10	Flood 36°	2700K	80	550	1440	35,000	1 7/8"	1 15/16"
			777082	SM16-09-25D-830-03	12	1/10	N. Flood 25°	3000K	80	590	3260	35,000	1 7/8"	1 15/16"
			777083	SM16-09-36D-830-03	12	1/10	Flood 36°	3000K	80	590	1540	35,000	1 7/8"	1 15/16"

LED = Halogen  
6W = 40W  
7.5W = 65W  
9W = 75W

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.



10° Spot



25° N. Flood  
36° Flood



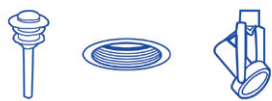
For information on SORAA merchandising options, speak to a Certified Lighting Specialist at 800-528-5555





# SORAA® V3 VIVID & BRILLIANT MR16 GU10 120V DIMMABLE

- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 6000Cd for 95CRI models and 7300Cd for 80CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- CUL rated for 12VAC NEC Class 1 and Class 2 systems
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID lamps offer excellent color rendering – CRI = 95, R9 = 95
- BRILLIANT lamps offer higher light output



**DIMMABLE**  
by design

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
7.5	MR16	GU10	777550	SM16GA-07-10D-927-03	120	1/10	Spot 10°	2700K	95	390	5710	35,000	1 1/5"	2'
			777554	SM16GA-07-25D-927-03	120	1/10	N. Flood 25°	2700K	95	410	2260	35,000	1 1/5"	2'
			777558	SM16GA-07-36D-927-03	120	1/10	Flood 36°	2700K	95	410	1070	35,000	1 1/5"	2'
			777562	SM16GA-07-60D-927-03	120	1/10	W. Flood 60°	2700K	95	410	440	35,000	1 1/5"	2'
			777551	SM16GA-07-10D-930-03	120	1/10	Spot 10°	3000K	95	410	6000	35,000	1 1/5"	2'
			777555	SM16GA-07-25D-930-03	120	1/10	N. Flood 25°	3000K	95	435	2400	35,000	1 1/5"	2'
			777559	SM16GA-07-36D-930-03	120	1/10	Flood 36°	3000K	95	435	1130	35,000	1 1/5"	2'
			777563	SM16GA-07-60D-930-03	120	1/10	W. Flood 60°	3000K	95	435	460	35,000	1 1/5"	2'
			777552	SM16GA-07-10D-940-03	120	1/10	Spot 10°	4000K	95	430	6290	35,000	1 1/5"	2'
			777556	SM16GA-07-25D-940-03	120	1/10	N. Flood 25°	4000K	95	455	2510	35,000	1 1/5"	2'
			777560	SM16GA-07-36D-940-03	120	1/10	Flood 36°	4000K	95	455	1190	35,000	1 1/5"	2'
			777564	SM16GA-07-60D-940-03	120	1/10	W. Flood 60°	4000K	95	455	490	35,000	1 1/5"	2'
			777553	SM16GA-07-10D-950-03	120	1/10	Spot 10°	5000K	95	430	6290	35,000	1 1/5"	2'
			777557	SM16GA-07-25D-950-03	120	1/10	N. Flood 25°	5000K	95	455	2510	35,000	1 1/5"	2'
			777561	SM16GA-07-36D-950-03	120	1/10	Flood 36°	5000K	95	455	1190	35,000	1 1/5"	2'
			777565	SM16GA-07-60D-950-03	120	1/10	W. Flood 60°	5000K	95	455	490	35,000	1 1/5"	2'
7.5	MR16	GU10	777566	SM16GA-07-10D-827-03	120	1/10	Spot 10°	2700K	80	475	6950	35,000	1 1/5"	2'
			777568	SM16GA-07-25D-827-03	120	1/10	N. Flood 25°	2700K	80	500	2760	35,000	1 1/5"	2'
			777570	SM16GA-07-36D-827-03	120	1/10	Flood 36°	2700K	80	500	1310	35,000	1 1/5"	2'
			777572	SM16GA-07-60D-827-03	120	1/10	W. Flood 60°	2700K	80	500	540	35,000	1 1/5"	2'
			777567	SM16GA-07-10D-830-03	120	1/10	Spot 10°	3000K	80	500	7320	35,000	1 1/5"	2'
			777569	SM16GA-07-25D-830-03	120	1/10	N. Flood 25°	3000K	80	525	2900	35,000	1 1/5"	2'
			777571	SM16GA-07-36D-830-03	120	1/10	Flood 36°	3000K	80	525	1370	35,000	1 1/5"	2'
			777573	SM16GA-07-60D-830-03	120	1/10	W. Flood 60°	3000K	80	525	560	35,000	1 1/5"	2'

VIVID

BRILLIANT

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

**LED = Halogen**  
**7.5W VIVID = 50W**  
**7.5W BRILLIANT = 65W**



# SORAA VIVID & BRILLIANT PAR20

## MEDIUM BASE (E26) 120V DIMMABLE

- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 8600 Cd for 95CRI models and 11,000 Cd for 80CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID lamps offer excellent color rendering – CRI = 95, R9 = 95
- BRILLIANT lamps offer higher light output
- Ideal for residential and commercial applications most commonly used in recessed and track lighting



**DIMMABLE**  
by design



	WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
VIVID	10.8	PAR20	E26	777252	SP20-11-10D-927-03	120	1/10	Spot 10°	2700K	95	500	8000	35,000	3"	2 1/2"
				777258	SP20-11-25D-927-03	120	1/10	N. Flood 25°	2700K	95	500	2640	35,000	3"	2 1/2"
				777264	SP20-11-36D-927-03	120	1/10	Flood 36°	2700K	95	500	1240	35,000	3"	2 1/2"
				777270	SP20-11-60D-927-03	120	1/10	W. Flood 60°	2700K	95	500	540	35,000	3"	2 1/2"
				777253	SP20-11-10D-930-03	120	1/10	Spot 10°	3000K	95	540	5640	35,000	3"	2 1/2"
				777259	SP20-11-25D-930-03	120	1/10	N. Flood 25°	3000K	95	540	2860	35,000	3"	2 1/2"
				777265	SP20-11-36D-930-03	120	1/10	Flood 36°	3000K	95	540	1340	35,000	3"	2 1/2"
				777271	SP20-11-60D-930-03	120	1/10	W. Flood 60°	3000K	95	540	580	35,000	3"	2 1/2"
				777254	SP20-11-10D-940-03	120	1/10	Spot 10°	4000K	95	560	8960	35,000	3"	2 1/2"
				777260	SP20-11-25D-940-03	120	1/10	N. Flood 25°	4000K	95	560	2960	35,000	3"	2 1/2"
				777266	SP20-11-36D-940-03	120	1/10	Flood 36°	4000K	95	560	1400	35,000	3"	2 1/2"
				777272	SP20-11-60D-940-03	120	1/10	W. Flood 60°	4000K	95	560	600	35,000	3"	2 1/2"
				777255	SP20-11-10D-950-03	120	1/10	Spot 10°	5000K	95	565	9040	35,000	3"	2 1/2"
				777261	SP20-11-25D-950-03	120	1/10	N. Flood 25°	5000K	95	565	2980	35,000	3"	2 1/2"
				777267	SP20-11-36D-950-03	120	1/10	Flood 36°	5000K	95	565	1400	35,000	3"	2 1/2"
			777273	SP20-11-60D-950-03	120	1/10	W. Flood 60°	5000K	95	565	620	35,000	3"	2 1/2"	
BRILLIANT	10.8	PAR20	E26	777250	SP20-11-10D-827-03	120	1/10	Spot 10°	2700K	80	640	10240	35,000	3"	2 1/2"
				777256	SP20-11-25D-827-03	120	1/10	N. Flood 25°	2700K	80	640	3380	35,000	3"	2 1/2"
				777262	SP20-11-36D-827-03	120	1/10	Flood 36°	2700K	80	640	1600	35,000	3"	2 1/2"
				777268	SP20-11-60D-827-03	120	1/10	W. Flood 60°	2700K	80	640	700	35,000	3"	2 1/2"
				777251	SP20-11-10D-830-03	120	1/10	Spot 10°	3000K	80	690	11040	35,000	3"	2 1/2"
				777257	SP20-11-25D-830-03	120	1/10	N. Flood 25°	3000K	80	690	3640	35,000	3"	2 1/2"
				777263	SP20-11-36D-830-03	120	1/10	Flood 36°	3000K	80	690	1720	35,000	3"	2 1/2"
				777269	SP20-11-60D-830-03	120	1/10	W. Flood 60°	3000K	80	690	740	35,000	3"	2 1/2"

LED = Halogen  
10.8W = 75W  
10.8W = 90W

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

# SORAA® VIVID PAR30

## MEDIUM BASE (E26) LONG NECK, SHORT NECK



- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 18,500 Cd for 95CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID lamps offer excellent color rendering – CRI = 95, R9 = 95
- Ideal for residential and commercial applications most commonly used in recessed and track lighting



**DIMMABLE**  
by design

LED = Halogen  
18.5W = 100W

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
18.5	PAR30LN	E26	777700	SP30L-18-09D-927-03	120	1/10	Spot 9°	2700K	95	930	22400	35,000	4 4/9"	3 7/9"
			777701	SP30L-18-25D-927-03	120	1/10	N. Flood 25°	2700K	95	930	5020	35,000	4 4/9"	3 7/9"
			777702	SP30L-18-36D-927-03	120	1/10	Flood 36°	2700K	95	930	2320	35,000	4 4/9"	3 7/9"
			777703	SP30L-18-60D-927-03	120	1/10	W. Flood 60°	2700K	95	930	1020	35,000	4 4/9"	3 7/9"
			777704	SP30L-18-09D-930-03	120	1/10	Spot 9°	3000K	95	1000	24100	35,000	4 4/9"	3 7/9"
			777705	SP30L-18-25D-930-03	120	1/10	N. Flood 25°	3000K	95	1000	5400	35,000	4 4/9"	3 7/9"
			777706	SP30L-18-36D-930-03	120	1/10	Flood 36°	3000K	95	1000	2500	35,000	4 4/9"	3 7/9"
			777707	SP30L-18-60D-930-03	120	1/10	W. Flood 60°	3000K	95	1000	1100	35,000	4 4/9"	3 7/9"
			777708	SP30L-18-09D-940-03	120	1/10	Spot 9°	4000K	95	1040	25060	35,000	4 4/9"	3 7/9"
			777709	SP30L-18-25D-940-03	120	1/10	N. Flood 25°	4000K	95	1040	5600	35,000	4 4/9"	3 7/9"
			777710	SP30L-18-36D-940-03	120	1/10	Flood 36°	4000K	95	1040	2600	35,000	4 4/9"	3 7/9"
			777711	SP30L-18-60D-940-03	120	1/10	W. Flood 60°	4000K	95	1040	1140	35,000	4 4/9"	3 7/9"
			777712	SP30L-18-09D-950-03	120	1/10	Spot 9°	5000K	95	1050	25300	35,000	4 4/9"	3 7/9"
			777713	SP30L-18-25D-950-03	120	1/10	N. Flood 25°	5000K	95	1050	5660	35,000	4 4/9"	3 7/9"
			777714	SP30L-18-36D-950-03	120	1/10	Flood 36°	5000K	95	1050	2620	35,000	4 4/9"	3 7/9"
777715	SP30L-18-60D-950-03	120	1/10	W. Flood 60°	5000K	95	1050	1140	35,000	4 4/9"	3 7/9"			
18.5	PAR30SN	E26	777720	SP30S-18-09D-927-03	120	1/10	Spot 9°	2700K	95	930	22400	35,000	3 2/9"	3 7/9"
			777721	SP30S-18-25D-927-03	120	1/10	N. Flood 25°	2700K	95	930	5020	35,000	3 2/9"	3 7/9"
			777722	SP30S-18-36D-927-03	120	1/10	Flood 36°	2700K	95	930	2320	35,000	3 2/9"	3 7/9"
			777723	SP30S-18-60D-927-03	120	1/10	W. Flood 60°	2700K	95	930	1020	35,000	3 2/9"	3 7/9"
			777724	SP30S-18-09D-930-03	120	1/10	Spot 9°	3000K	95	1000	24100	35,000	3 2/9"	3 7/9"
			777725	SP30S-18-25D-930-03	120	1/10	N. Flood 25°	3000K	95	1000	5400	35,000	3 2/9"	3 7/9"
			777726	SP30S-18-36D-930-03	120	1/10	Flood 36°	3000K	95	1000	2500	35,000	3 2/9"	3 7/9"
			777727	SP30S-18-60D-930-03	120	1/10	W. Flood 60°	3000K	95	1000	1100	35,000	3 2/9"	3 7/9"
			777728	SP30S-18-09D-940-03	120	1/10	Spot 9°	4000K	95	1040	25060	35,000	3 2/9"	3 7/9"
			777729	SP30S-18-25D-940-03	120	1/10	N. Flood 25°	4000K	95	1040	5600	35,000	3 2/9"	3 7/9"
			777730	SP30S-18-36D-940-03	120	1/10	Flood 36°	4000K	95	1040	2600	35,000	3 2/9"	3 7/9"
			777731	SP30S-18-60D-940-03	120	1/10	W. Flood 60°	4000K	95	1040	1140	35,000	3 2/9"	3 7/9"
			777732	SP30S-18-09D-950-03	120	1/10	Spot 9°	5000K	95	1050	25300	35,000	3 2/9"	3 7/9"
			777733	SP30S-18-25D-950-03	120	1/10	N. Flood 25°	5000K	95	1050	5660	35,000	3 2/9"	3 7/9"
			777734	SP30S-18-36D-950-03	120	1/10	Flood 36°	5000K	95	1050	2620	35,000	3 2/9"	3 7/9"
			777735	SP30S-18-60D-950-03	120	1/10	W. Flood 60°	5000K	95	1050	1140	35,000	3 2/9"	3 7/9"

VIVID

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

# SORAA® BRILLIANT PAR30

## MEDIUM BASE (E26) LONG NECK, SHORT NECK

- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 23,680 Cd for 80CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID lamps offer excellent color rendering – CRI = 95, R9 = 95
- Ideal for residential and commercial applications most commonly used in recessed and track lighting



**DIMMABLE**  
by design



BRILLIANT

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
18.5	PAR30LN	E26	777740	SP30L-18-09D-827-03	120	1/10	Spot 9°	2700K	80	1190	28680	35,000	4 4/9"	3 7/9"
			777741	SP30L-18-25D-827-03	120	1/10	N. Flood 25°	2700K	80	1190	6420	35,000	4 4/9"	3 7/9"
			777742	SP30L-18-36D-827-03	120	1/10	Flood 36°	2700K	80	1190	2960	35,000	4 4/9"	3 7/9"
			777743	SP30L-18-60D-827-03	120	1/10	W. Flood 60°	2700K	80	1190	1300	35,000	4 4/9"	3 7/9"
			777744	SP30L-18-09D-830-03	120	1/10	Spot 9°	3000K	80	1280	30840	35,000	4 4/9"	3 7/9"
			777745	SP30L-18-25D-830-03	120	1/10	N. Flood 25°	3000K	80	1280	6900	35,000	4 4/9"	3 7/9"
			777746	SP30L-18-36D-830-03	120	1/10	Flood 36°	3000K	80	1280	3200	35,000	4 4/9"	3 7/9"
18.5	PAR30SN	E26	777750	SP30S-18-09D-827-03	120	1/10	Spot 9°	2700K	80	1190	28680	35,000	3 2/9"	3 7/9"
			777751	SP30S-18-25D-827-03	120	1/10	N. Flood 25°	2700K	80	1190	6420	35,000	3 2/9"	3 7/9"
			777752	SP30S-18-36D-827-03	120	1/10	Flood 36°	2700K	80	1190	2960	35,000	3 2/9"	3 7/9"
			777753	SP30S-18-60D-827-03	120	1/10	W. Flood 60°	2700K	80	1190	1300	35,000	3 2/9"	3 7/9"
			777754	SP30S-18-09D-830-03	120	1/10	Spot 9°	3000K	80	1280	30840	35,000	3 2/9"	3 7/9"
			777755	SP30S-18-25D-830-03	120	1/10	N. Flood 25°	3000K	80	1280	6900	35,000	3 2/9"	3 7/9"
			777756	SP30S-18-36D-830-03	120	1/10	Flood 36°	3000K	80	1280	3200	35,000	3 2/9"	3 7/9"
			777757	SP30S-18-60D-830-03	120	1/10	W. Flood 60°	3000K	80	1280	1400	35,000	3 2/9"	3 7/9"

LED = Halogen  
18.5W = 120W

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.



PAR30 Short Neck



PAR30 Long Neck

# SORAA® VIVID & BRILLIANT PAR38 MEDIUM BASE (E26) 120V DIMMABLE



- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 18,500 Cd for 95CRI models and 23,680 for 80 CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID lamps offer excellent color rendering – CRI = 95, R9 = 95
- BRILLIANT lamps offer higher light output
- Ideal for residential and commercial applications most commonly used in recessed and track lighting



**DIMMABLE**  
by design

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
18.5	PAR38	E26	777760	SP38-18-09D-927-03	120	1/10	Spot 9°	2700K	95	930	22400	35,000	5"	4 4/5"
			777761	SP38-18-25D-927-03	120	1/10	N. Flood 25°	2700K	95	930	5020	35,000	5"	4 4/5"
			777762	SP38-18-36D-927-03	120	1/10	Flood 36°	2700K	95	930	2320	35,000	5"	4 4/5"
			777763	SP38-18-60D-927-03	120	1/10	W. Flood 60°	2700K	95	930	1020	35,000	5"	4 4/5"
			777764	SP38-18-09D-930-03	120	1/10	Spot 9°	3000K	95	1000	24100	35,000	5"	4 4/5"
			777765	SP38-18-25D-930-03	120	1/10	N. Flood 25°	3000K	95	1000	5400	35,000	5"	4 4/5"
			777766	SP38-18-36D-930-03	120	1/10	Flood 36°	3000K	95	1000	2500	35,000	5"	4 4/5"
			777767	SP38-18-60D-930-03	120	1/10	W. Flood 60°	3000K	95	1000	1100	35,000	5"	4 4/5"
			777768	SP38-18-09D-940-03	120	1/10	Spot 9°	4000K	95	1040	25060	35,000	5"	4 4/5"
			777769	SP38-18-25D-940-03	120	1/10	N. Flood 25°	4000K	95	1040	5600	35,000	5"	4 4/5"
			777770	SP38-18-36D-940-03	120	1/10	Flood 36°	4000K	95	1040	2600	35,000	5"	4 4/5"
			777771	SP38-18-60D-940-03	120	1/10	W. Flood 60°	4000K	95	1040	1140	35,000	5"	4 4/5"
			777772	SP38-18-09D-950-03	120	1/10	Spot 9°	5000K	95	1050	25300	35,000	5"	4 4/5"
			777773	SP38-18-25D-950-03	120	1/10	N. Flood 25°	5000K	95	1050	5660	35,000	5"	4 4/5"
			777774	SP38-18-36D-950-03	120	1/10	Flood 36°	5000K	95	1050	2620	35,000	5"	4 4/5"
777775	SP38-18-60D-950-03	120	1/10	W. Flood 60°	5000K	95	1050	1140	35,000	5"	4 4/5"			
18.5	PAR38	E26	777780	SP38-18-09D-827-03	120	1/10	Spot 9°	2700K	80	1190	28680	35,000	5"	4 4/5"
			777781	SP38-18-25D-827-03	120	1/10	N. Flood 25°	2700K	80	1190	6420	35,000	5"	4 4/5"
			777782	SP38-18-36D-827-03	120	1/10	Flood 36°	2700K	80	1190	2960	35,000	5"	4 4/5"
			777783	SP38-18-60D-827-03	120	1/10	W. Flood 60°	2700K	80	1190	1300	35,000	5"	4 4/5"
			777784	SP38-18-09D-830-03	120	1/10	Spot 9°	3000K	80	1280	30840	35,000	5"	4 4/5"
			777785	SP38-18-25D-830-03	120	1/10	N. Flood 25°	3000K	80	1280	6900	35,000	5"	4 4/5"
			777786	SP38-18-36D-830-03	120	1/10	Flood 36°	3000K	80	1280	3200	35,000	5"	4 4/5"
			777787	SP38-18-60D-830-03	120	1/10	W. Flood 60°	3000K	80	1280	1400	35,000	5"	4 4/5"

VIVID

BRILLIANT

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

**LED = Halogen**  
**18.5W VIVID = 100W**  
**18.5W BRILLIANT = 120W**

# SORAA® VIVID & BRILLIANT AR111 G53 - 12V DIMMABLE

- Single source LED, with the high CBCP and crisp single shadow of a halogen lamp
- Narrow spot CBCPs are superior in performance at 24,000 Cd for 95CRI models and 31,000 Cd for 80CRI models
- Works with trailing edge and leading edge phase cut dimmers for maximum compatibility
- White point accuracy within 3 SDCM
- Automatic safety shut down in any thermal environment not conducive to minimum airflow or proper ventilation
- VP<sub>3</sub> technology for perfect and consistent rendering of colors and whites
- SORAA SNAP SYSTEM compatibility on spot models opens up infinite design possibilities
- Enclosed fixture compatibility allows operation in damp or outdoor locations
- VIVID lamps offer excellent color rendering – CRI = 95, R9 = 95
- BRILLIANT lamps offer higher light output
- Ideal for commercial applications and with low glare this is a great choice for retail lighting



**DIMMABLE**  
by design



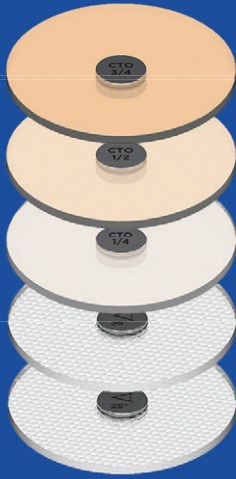
	WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	BEAM ANGLE	COLOR TEMP.	CRI	LUMENS	CBCP	AVERAGE RATED LIFE	M.O.L.	M.O.D.
VIVID	18.5	AR111	G53	777900	SR111-18-09D-927-03	12	1/10	Spot 9°	2700K	95	930	22400	35,000	2 1/4"	4 3/8"
				777901	SR111-18-25D-927-03	12	1/10	N. Flood 25°	2700K	95	930	5020	35,000	2 1/4"	4 3/8"
				777902	SR111-18-36D-927-03	12	1/10	Flood 36°	2700K	95	930	2320	35,000	2 1/4"	4 3/8"
				777903	SR111-18-60D-927-03	12	1/10	W. Flood 60°	2700K	95	930	1020	35,000	2 1/4"	4 3/8"
				777904	SR111-18-09D-930-03	12	1/10	Spot 9°	3000K	95	1000	24100	35,000	2 1/4"	4 3/8"
				777905	SR111-18-25D-930-03	12	1/10	N. Flood 25°	3000K	95	1000	5400	35,000	2 1/4"	4 3/8"
				777906	SR111-18-36D-930-03	12	1/10	Flood 36°	3000K	95	1000	2500	35,000	2 1/4"	4 3/8"
				777907	SR111-18-60D-930-03	12	1/10	W. Flood 60°	3000K	95	1000	1100	35,000	2 1/4"	4 3/8"
				777908	SR111-18-09D-940-03	12	1/10	Spot 9°	4000K	95	1040	25060	35,000	2 1/4"	4 3/8"
				777909	SR111-18-25D-940-03	12	1/10	N. Flood 25°	4000K	95	1040	5600	35,000	2 1/4"	4 3/8"
				777910	SR111-18-36D-940-03	12	1/10	Flood 36°	4000K	95	1040	2600	35,000	2 1/4"	4 3/8"
				777911	SR111-18-60D-940-03	12	1/10	W. Flood 60°	4000K	95	1040	1140	35,000	2 1/4"	4 3/8"
				777912	SR111-18-09D-950-03	12	1/10	Spot 9°	5000K	95	1050	25300	35,000	2 1/4"	4 3/8"
				777913	SR111-18-25D-950-03	12	1/10	N. Flood 25°	5000K	95	1050	5660	35,000	2 1/4"	4 3/8"
				777914	SR111-18-36D-950-03	12	1/10	Flood 36°	5000K	95	1050	2620	35,000	2 1/4"	4 3/8"
			777915	SR111-18-60D-950-03	12	1/10	W. Flood 60°	5000K	95	1050	1140	35,000	2 1/4"	4 3/8"	
BRILLIANT	18.5	AR111	G53	777920	SR111-18-09D-827-03	12	1/10	Spot 9°	2700K	80	1190	28680	35,000	2 1/4"	4 3/8"
				777921	SR111-18-25D-827-03	12	1/10	N. Flood 25°	2700K	80	1190	6420	35,000	2 1/4"	4 3/8"
				777922	SR111-18-36D-827-03	12	1/10	Flood 36°	2700K	80	1190	2960	35,000	2 1/4"	4 3/8"
				777923	SR111-18-60D-827-03	12	1/10	W. Flood 60°	2700K	80	1190	1300	35,000	2 1/4"	4 3/8"
				777924	SR111-18-09D-830-03	12	1/10	Spot 9°	3000K	80	1300	30840	35,000	2 1/4"	4 3/8"
				777925	SR111-18-25D-830-03	12	1/10	N. Flood 25°	3000K	80	1300	6900	35,000	2 1/4"	4 3/8"
				777926	SR111-18-36D-830-03	12	1/10	Flood 36°	3000K	80	1300	3200	35,000	2 1/4"	4 3/8"
				777927	SR111-18-60D-830-03	12	1/10	W. Flood 60°	3000K	80	1300	1400	35,000	2 1/4"	4 3/8"

LED = Halogen  
18.5W = 120W

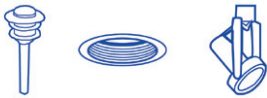
For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

# SORAA® SNAP SYSTEM

## ACCESSORIES - MR & LARGE LAMPS



- Achieve all beam distributions or colors with one lamp SKU
- Compatible with SORAA V2 Dimmable MR16 Spot 10° lamps
- Available accessories include CCT shifters, beam spreaders, linear lens, flat tops, and louvers
- Magnetic snap discs are stackable
- Simple installation
- Magnet automatically self-centers accessories onto lamp
- Snap System Combo 10-Pack includes 1 of each MR snap system accessory except item 777810 (Louver)



ITEM #	ORDERING CODE	INNER/MASTER	DESCRIPTION
777800	AC-CC-0001-95-00	1/10	Snap Color Changing CTO 1/4
777801	AC-CC-0002-95-00	1/10	Snap Color Changing CTO 1/2
777802	AC-CC-0003-95-00	1/10	Snap Color Changing CTO 3/4
777803	AC-GC-2525-00-00	1/10	Snap Beam Spreading to 25°
777804	AC-GC-3636-00-00	1/10	Snap Beam Spreading to 36°
777805	AC-GC-6060-00-00	1/10	Snap Beam Spreading to 60°
777806	AC-GE-1025-00-00	1/10	Snap Shaping Angle 10° X 25°
777807	AC-GE-1036-00-00	1/10	Snap Shaping Angle 10° X 36°
777808	AC-FR-2525-00-00	1/10	Snap Shaping Square 25° X 25°
777809	AC-FR-3636-00-00	1/10	Snap Shaping Square 36° X 36°
777810	AC-LU-4040-00-00	1/10	Snap Louver
777811	AC-AA-COMB-00-00	1/10	Snap Combo Pack

SNAP ACCESSORIES FOR MR16 LAMPS

ITEM #	ORDERING CODE	INNER/MASTER	DESCRIPTION
777820	AC-E-CC-0001-00	1/10	Snap Color Changing CTO 1/4
777821	AC-E-CC-0002-00	1/10	Snap Color Changing CTO 1/2
777822	AC-E-CC-0003-00	1/10	Snap Color Changing CTO 3/4
777823	AC-E-GC-2525-00	1/10	Snap Beam Spreading to 25°
777824	AC-E-GC-3636-00	1/10	Snap Beam Spreading to 36°
777825	AC-E-GC-6060-00	1/10	Snap Beam Spreading to 60°
777827	AC-E-GE-1036-00	1/10	Snap Shaping Angle 10° X 36°
777828	AC-E-FR-3636-00	1/10	Snap Shaping Square 36° X 36°
777830	AC-E-LU-4040-00	1/10	Snap Louver

SNAP ACCESSORIES FOR LARGE LAMPS

For the most current product information, see [www.bulbrite.com/Soraa](http://www.bulbrite.com/Soraa)  
Please call for information on availability.

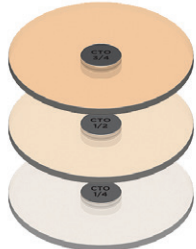
### CCT Shifter SNAP

Available In:



#### CCT SHIFT EFFECT\*

Starting Lamp CCT	1/4 CTO	1/2 CTO	3/4 CTO
2700K	2450K	2200K	2000K
3000K	2700K	2400K	2200K
5000K	4250K	3550K	3125K



**CCT SHIFTER SNAP MR**  
 1/4 CTO - AC-CC-0001-95-00  
 1/2 CTO - AC-CC-0002-95-00  
 3/4 CTO - AC-CC-0003-95-00  
**CCT SHIFTER SNAP LARGE**  
 1/4 CTO - AC-E-CC-0001-00  
 1/2 CTO - AC-E-CC-0002-00  
 3/4 CTO - AC-E-CC-0003-00

### Beam Spreader SNAP

Available In:



**BEAM SPREADER SNAP MR**  
 25° - AC-GC-2525-00-00  
 36° - AC-GC-3636-00-00  
 60° - AC-GC-6060-00-00  
**BEAM SPREADER SNAP LARGE**  
 25° - AC-E-GC-2525-00  
 36° - AC-E-GC-3636-00  
 60° - AC-E-GC-6060-00

### Linear SNAP

Available In:



**LINEAR SNAP MR**  
 10° - 25° - AC-GE-1025-00-00  
 10° - 36° - AC-GE-1036-00-00  
**LINEAR SNAP LARGE**  
 10° - 36° - AC-E-GE-1036-00

### Flat Top SNAP

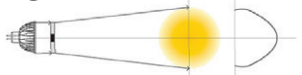
Available In:



**FLAT TOP SNAP MR**  
 25° - 25° - AC-FR-2525-00-00  
 36° - 36° - AC-FR-3636-00-00  
**FLAT TOP SNAP LARGE**  
 36° - 36° - AC-E-FR-3636-00

### Louver SNAP

Available In:

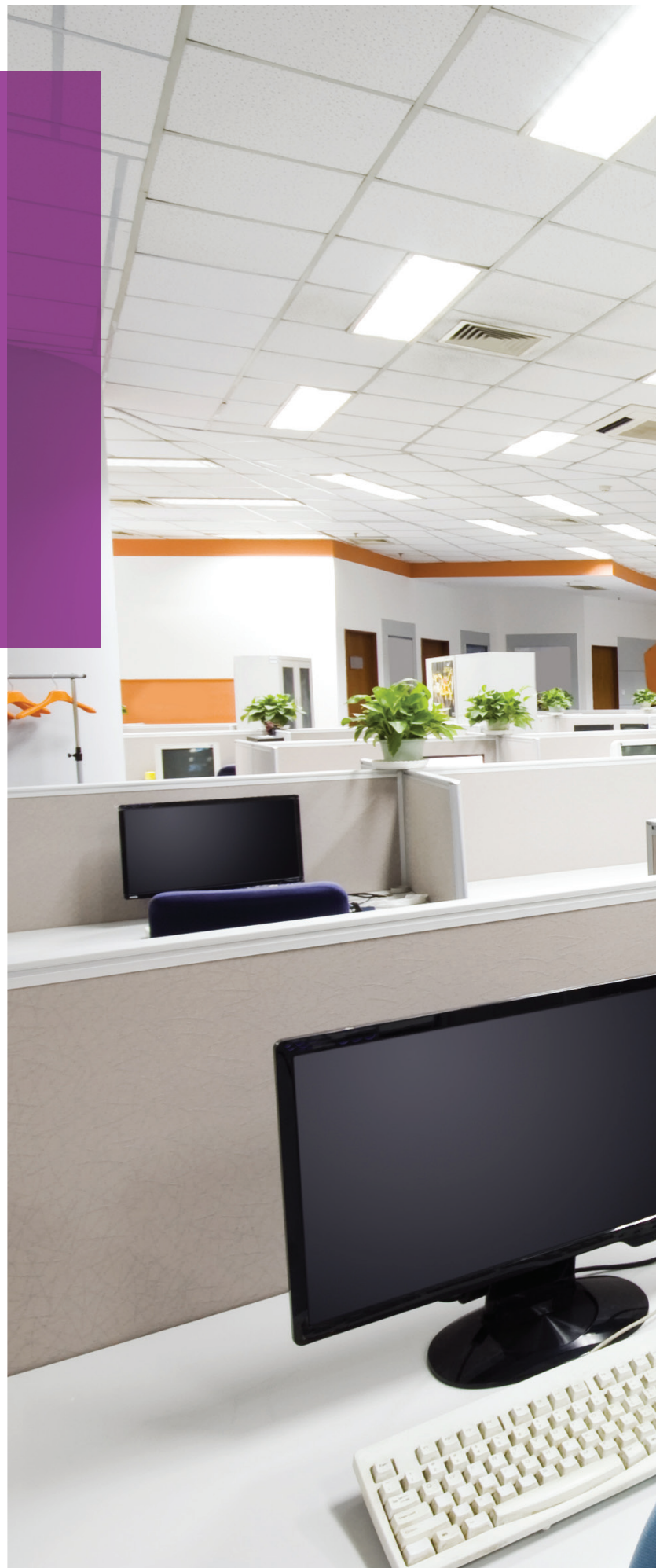


**LOUVER SNAP MR**  
 AC-LU-4040-00-00  
**LOUVER SNAP LARGE**  
 AC-E-LU-4040-00

# OFFER LONG-TERM LIGHTING SOLUTIONS WITH COMMERCIAL LEDS

Complete your building project by offering long-term lighting solutions with commercial LEDs. Easy installation, zero warm-up times and minimal maintenance allow architects, contractors and designers to provide a flexible, energy efficient environment in retail, office and hospitality spaces.

Bulbrite's Commercial LEDs optimize workspaces while providing energy and maintenance saving for commercial projects.







# LED DOWNLIGHT RETROFIT

## 4" RETROFIT DOWNLIGHT FIXTURES

- LED Downlight Retrofit Kit includes:
  - (1) LED 4" Downlight Retrofit Fixture
  - (1) Medium (E26) Base Connector for Standard Sockets
- Retrofit downlight can be used in standard and shallow housing
- Retrofit downlight fixtures are fully dimmable
- Easy installation



**DIMMABLE**  
by design



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
8	4" Downlight Retrofit	E26	773102	*LED8REC/4/30K/D	120	1/6	SOFT WHITE	3000K	80	500	35,000	3 7/16"	5 1/8"	1,3,4,5

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

\* = Energy Star

**LED = Incandescent**  
**8W = 50W**

### Kit Includes:



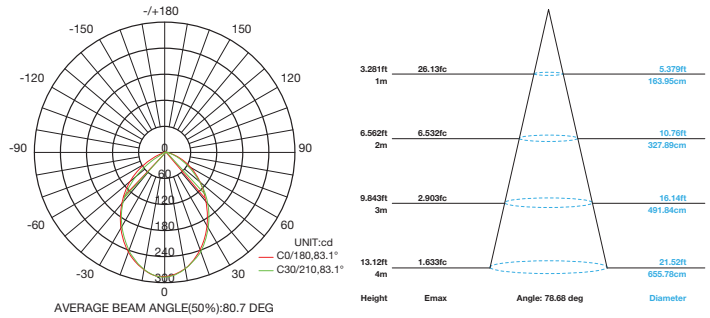
5 1/8" (130.18 mm)



3 7/16" (87.38 mm)

**Dimmable 4" Retrofit Downlight**  
LED8REC/4/30K/D

### 8W LED 4" Downlight Retrofit 3000K



### SIDE BY SIDE LED vs. HALOGEN

Based on 8 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	8	500	80	25,000	67.5	\$297.99
HALOGEN	55	495	100	2,500	11	—

# LED DOWNLIGHT RETROFIT

## 6" RETROFIT DOWNLIGHT FIXTURES



- LED Downlight Retrofit Kit includes:
  - (1) LED 6" Downlight Retrofit Fixture
  - (1) Medium (E26) Base Connector for Standard Sockets
- Retrofit downlight can be used in standard and shallow housing
- Retrofit downlight fixtures are fully dimmable
- Easy installation



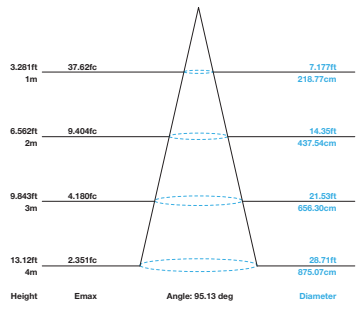
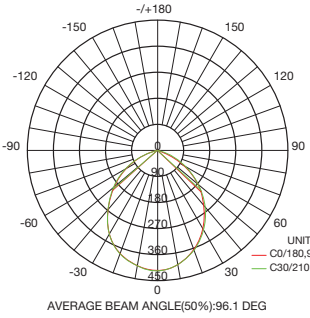
**DIMMABLE**  
by design

WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
14	6" Downlight Retrofit	E26	773112	*LED14REC/6/30K/D	120	1/6	SOFT WHITE	3000K	80	950	35,000	3 4/9"	7 1/4"	1,3,4,5

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)  
 \* = Energy Star

**LED = Incandescent**  
**14W = 95W**

### 14W LED 6" Downlight Retrofit 3000K



#### Kit Includes:



7 1/4" (184.15 mm)



**Dimmable 6"**  
**Retrofit Downlight**  
 LED14REC/6/30K/D

#### SIDE BY SIDE LED vs. HALOGEN

Based on 8 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	14	950	80	25,000	67.9	\$384.62
HALOGEN	65	810	100	2,500	12.5	-



# LED T8s

## 4' LINEAR T8

- Energy Saving LED alternative to traditional fluorescent T12 or T8 lamps
- Universal input 90~277V; 50/60Hz (internal driver)
- Long Life – 50,000 hour life
- No warm-up time, instant on (perfect for applications with occupancy sensors)
- Simple rewiring only requires ballast to be bypassed, allowing fixture to maintain UL compliance
- No mercury, UV rays or IR
- Design Lights Consortium (DLC) Qualified



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	M.O.D.	NOTES (PG 43)
20	T8	G13	776005	LED20T8/30K	100-277	1/25	SOFT WHITE	3000K	80	2000	50,000	47 1/4"	1"	1,4,5,8
			776006	LED20T8/40K	100-277	1/25	COOL WHITE	4000K	80	2000	50,000	47 1/4"	1"	1,4,5,8

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

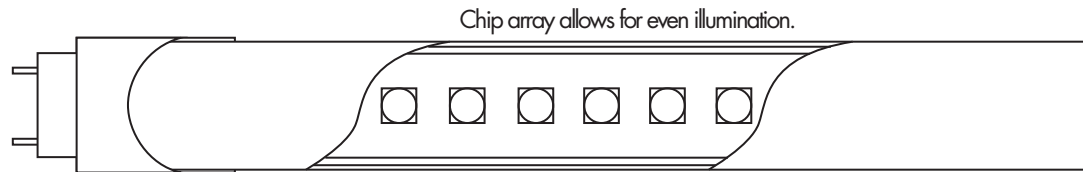
**LED = Fluorescent**  
**20W = 32W**

**NOTE: Bypassing the ballast is required. Use only NON-SHUNTED socket at the line voltage end.**  
**One (1) NON-SHUNTED socket is included per lamp if socket retrofit is required.**



### LED T8

LED20T8/830K  
LED20T8/840K



### SIDE BY SIDE

#### LED vs. FLUORESCENT

Based on 8 hrs/day, 11¢/kWh, average retail price

	WATTS	LUMENS	CRI	LIFE	LPW	NET SAVINGS (over 20 yrs)
LED	20	2000	80	50,000	100	\$38.34
FLUORESCENT	32	2600	75	24,000	81.3	—



# LED COMMERCIAL

## MULTI-BEAM, 1383 ELEVATOR LAMP, EXIT LIGHT KIT

- Exit Light Kit requires less maintenance due to long life and durability and includes 2 candelabra-based LED exit bulbs; 2 candelabra to D.C. bayonet adapters; 2 candelabra to intermediate adapters
- Multi-Beam includes beam-control technology, adjustable dial to allow you to select from 6 different beam angles
- 1383 Elevator Lamp lasts 30 times longer, requires less maintenance and uses 87% less energy than incandescent alternatives
- Ideal for use in commercial applications



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/ MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	CRCP	AVERAGE RATED LIFE	M.O.L.	NOTES (PG 43)
1	T6.5	E12/E17/DCBAY	707550	LED/EX-KT	120	1/12	Red	-	-	-	-	100,000	4 3/4"	-
2	MR16	GU5.3	771021	LEDMR16/MULTI	12	1/12	Multi-Beam 15-40°	3000K	75	55	-	25,000	2 3/16"	2
2.6	R12	BA15S	770541	LED/1383/30K	12	1/25	Flood 110°	3000K	80	140	60	25,000	2 4/9"	2

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

LED = Halogen  
2W = 5W MR16

LED = Incandescent  
2.6W = 20W 1383



**1383 Elevator Lamp**  
LED/1383/30K



**EXIT KIT**  
LED/EX-KT



**MR16 Multi-Beam**  
LEDMR16/MULTI

# HIGHLIGHT UNIQUE **SPACES** WITH **SPECIALTY LEDS**

Transform any room by highlighting unique spaces utilizing specialty LEDs. Whether it be creating accents in a room through under-cabinet lighting, enhancing architectural features with cove lighting or using designer accents such as portable LED lamps and nightlights to enhance overall décor.

Bulbrite's Specialty LEDs can also be used for sign lighting and specialty applications while saving on energy and maintenance costs.





# LED SPECIALTY

## JC BI-PIN, WEDGE, FESTOON, G9

- LED 0.6W JC Bi-Pin is a true retrofit for bi-pin lamps (12V)
- LED 2.5W JC Bi-Pin is a high powered LED retrofit equivalent to a 10W Halogen (12V)
- LED Festoon is a true retrofit for festoon lamps (12V & 24V)
- LED Wedge offers 360° illumination and is a true retrofit for wedge lamps (12V)
- LED 3W G9 is a high powered LED retrofit equivalent to a 20W Halogen (120V)
- Energy efficient with a super high power chip that provides the brightest LED light
- Ideal for use in residential and commercial applications most commonly used for landscape, signs and displays



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.
0.6	JC	G4	770510	LED/JC/12WW	12	10/50	Clear	2700K	70	30	15,000	1 1/4"
			770511	LED/JC/12CW	12	10/50	Clear	6000K	70	35	15,000	1 1/4"
0.8	T3	FESTOON	770530	LED/FEST/12	12	10/50	Clear	3000K	82	30	30,000	1 5/8"
			770531	LED/FEST/24	24	10/50	Clear	3000K	82	35	30,000	1 5/8"
2.2	JC	G4	770513	LED3JC/12WW	12	1/25	Clear	3000K	82	170	15,000	1 1/3"
2.2	T3	WEDGE	770522	LED3WEDGE/12	12	1/25	Clear	3000K	82	170	15,000	1 2/5"
2.5	T4	G9	770550	LED3G9/WW	120	1/25	Clear	3000K	82	250	15,000	2 1/9"

LED = Xenon  
0.8W = 3W FESTOON

LED = Halogen  
0.6W = 3W JC BI-PIN  
2.2W = 10W  
2.5W = 20W

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)



**BI-PIN**  
LED/JC/12WW  
LED/JC/12CW



**FESTOON**  
LED/FEST/12  
LED/FEST/24



**HIGH POWER BI-PIN**  
LED3JC/12WW



**HIGH POWER WEDGE**  
LED3WEDGE/12



**HIGH POWER G9**  
LED3G9/WW



# LED SPECIALTY COLORS

## C7, C9, G14



- C7 & C9 bright LED replacement bulbs are a true retrofit for their incandescent lamp counterparts
- Globes have decorative shape and are a true retrofit for their incandescent lamp counterparts
- Ideal for indoor and outdoor use most commonly used in amusement parks, hotels, signs and displays



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	AVERAGE RATED LIFE	M.O.L		
0.6	C7	E12	770171	LED/C7C	120	25/100	Clear	30,000	2 3/16"		
			770172	LED/C7Y	120	25/100	Yellow	30,000	2 3/16"		
			770173	LED/C7B	120	25/100	Blue	30,000	2 3/16"		
			770174	LED/C7G	120	25/100	Green	30,000	2 3/16"		
			770175	LED/C7O	120	25/100	Orange	30,000	2 3/16"		
			770176	LED/C7P	120	25/100	Pink	30,000	2 3/16"		
			770177	LED/C7R	120	25/100	Red	30,000	2 3/16"		
			770178	LED/C7PU	120	25/100	Purple	30,000	2 3/16"		
			C9	E17	770191	LED/C9C	120	25/100	Clear	30,000	2 15/16"
					770192	LED/C9Y	120	25/100	Yellow	30,000	2 15/16"
					770193	LED/C9B	120	25/100	Blue	30,000	2 15/16"
					770194	LED/C9G	120	25/100	Green	30,000	2 15/16"
					770195	LED/C9O	120	25/100	Orange	30,000	2 15/16"
					770196	LED/C9P	120	25/100	Pink	30,000	2 15/16"
770197	LED/C9R	120			25/100	Red	30,000	2 15/16"			
770198	LED/C9PU	120			25/100	Purple	30,000	2 15/16"			
1	G14	E26	770151	LED/G14B	120	1/10	Blue	15,000	2 5/9"		
			770152	LED/G14G	120	1/10	Green	15,000	2 5/9"		
			770153	LED/G14R	120	1/10	Red	15,000	2 5/9"		
			770154	LED/G14Y	120	1/10	Yellow	15,000	2 5/9"		
			770155	LED/G14W	120	1/10	White	15,000	2 5/9"		

LED = Incandescent  
0.6W = 7W C7 & C9

For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)



**C7**

- LED/C7C
- LED/C7Y
- LED/C7B
- LED/C7G
- LED/C7O
- LED/C7P
- LED/C7R
- LED/C7PU



**C9**

- LED/C9C
- LED/C9Y
- LED/C9B
- LED/C9G
- LED/C9O
- LED/C9P
- LED/C9R
- LED/C9PU



**G14**

- LED/G14B
- LED/G14G
- LED/G14R
- LED/G14Y
- LED/G14W

# LED LINEAR T8 S14s

## LINEAR T8 RETROFIT

- Energy saving LED alternative to traditional incandescent T8 linear linestra lamps
- Simple installation (no ballast or transformer required)
- Long Life - 50,000 hour llife
- Ideal for bathroom lighting application



WATTS	BULB TYPE	BASE	ITEM #	ORDERING CODE	VOLTS	INNER/MASTER	DESCRIPTION	COLOR TEMP	CRI	LUMENS	AVERAGE RATED LIFE	M.O.L.	NOTES (PG 43)
4	T8	S14s	770604	LED/LI4T8/27K	120	1/25	WARM WHITE	2700K	80	300	50,000	11 4/5"	5
6	T8	S14s	770606	LED/LI6T8/27K	120	1/25	WARM WHITE	2700K	80	450	50,000	19 2/3"	5
10	T8	S14s	770610	LED/LI10T8/27K	120	1/25	WARM WHITE	2700K	80	900	50,000	39 2/5"	5

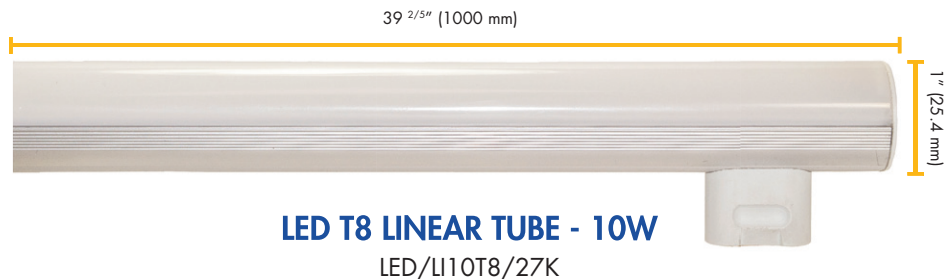
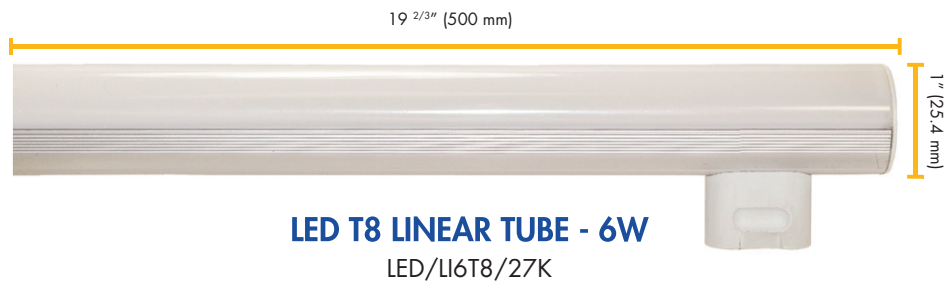
For the most current product information, see [www.bulbrite.com/LED](http://www.bulbrite.com/LED)

LED = Incandescent

4W = 35W

6W = 60W

10W = 150W



# LED FOOTNOTES

- 1** - This lamp may not be compatible with all dimmer models, occupancy sensors or control systems (photocells). The quantity of lamps used on any one dimmer may affect lamp performance. For more details on compatibility, contact Bulbrite at: (800) 528 – 5555 or [info@bulbrite.com](mailto:info@bulbrite.com).  
Do not use dimming as a method for turning off the lamp. Dimming may adversely affect lamp life.
- 2** – This lamp may not be compatible with all transformers. Visit [bulbrite.com/LED](http://bulbrite.com/LED) for transformer compatibility information.
- 3** – ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy promoting money savings and the protection of the environment through the use of energy efficient products and practices. Energy Star has developed standards for LEDs for Directional Lamps, Decorative Lamps, Omni-directional Lamps and Non-Standard Lamps. Energy Star approved lamps in this catalog are based on ENERGY STAR Program Requirements for Integral LED lamps Version 1.4. For the most up to date standards, visit [www.energystar.gov](http://www.energystar.gov) .
- 4** – LED Lighting Facts is a program of the U.S. Department of Energy that showcases LED products for general illumination from manufacturers who commit to testing products and reporting performance results according to industry standards. LM79 reports are available for all Lighting Facts verified products. For additional information, visit [www.lightingfacts.com](http://www.lightingfacts.com)
- 5** – UL approved LED lamps are certified against UL standard 8750. These requirements cover LED equipment that is an integral part of a luminaire or other lighting equipment and which operates in the visible light spectrum between 400 - 700 nm. These requirements also cover the component parts of light emitting diode (LED) equipment, including LED drivers, controllers, arrays, modules, and packages as defined within this standard. Standard electronic components such as adaptors are also tested against UL standards. For details on UL test standards, visit [www.ul.com](http://www.ul.com)
- 6** – TÜV SÜD America is an NRTL (Nationally Recognized Testing Laboratory) capable of performing electrical safety testing to a variety of UL/ANSI standards. TUV approved LED products are certified against UL standard 8750. For details on TUV, visit [www.tuvamerica.com](http://www.tuvamerica.com)
- 7** – ETL is a safety mark issued through Intertek. Intertek is an NRTL (Nationally Recognized Testing Laboratory) capable of performing electrical safety testing to North American safety standards, including UL, ANSI, CSA, ASTM and NFPA standards. ETL approved LED products are certified against UL standard 8750 and the ELEVA LED Magnetic Retrofit System is tested to UL standard 1598C. For details on ETL, visit [www.intertek.com/marks/etl/](http://www.intertek.com/marks/etl/)
- 8** – The DesignLights Consortium® (DLC) qualifies commercial LED luminaires, retrofit kits, and linear replacement lamps for inclusion in DLC members’ energy efficiency rebate and incentive programs. Test laboratory requirements include In situ Temperature Measurement Test (ISTMT), LM79, and LM80. DesignLights Consortium® qualified products are published on their Qualified Products List. For details on DLC, visit [www.designlights.org](http://www.designlights.org)

## **IMPORTANT NOTE:**

LM79 test data is available for select LED lamps, for details contact Bulbrite at: (800) 528 - 5555 or [productmgmt@bulbrite.com](mailto:productmgmt@bulbrite.com)

# GLOSSARY / WARRANTY

**Average Rated Life** - An average rating, in hours, indicating when a percentage of a large group of lamps have failed, when operated at nominal lamp voltage and current. The life of an LED is defined as the operating time in hours for the lamp to reach L70 which designates 70% lumen maintenance (or 30% reduction in initial light output). Every lamp type has a unique mortality curve that depicts its average rated life.

**Binning** - The separation of LEDs according to color temperature subsequent to a production run for full manufactured, distribution in terms of color, lumen output and forward voltage. This allows luminaire manufacturers to select only those LEDs that meet their acceptable performance ranges and also maintain consistency in production.

**Center Beam Candlepower (CBCP)** - The luminous intensity at the center of the beam of a reflector lamp. Measured in candelas.

**CIE System** - The International Commission on Illumination classifies luminaires based on the proportion of upward and downward directed light output. This system is usually applied to indoor luminaires.

**Diode** - A two-terminal semiconductor device having a p-n (positive-negative) junction which allows energy travel in one direction.

**DLC** - The DesignLights Consortium® (DLC) promotes quality, performance and energy efficient commercial sector LED lighting solutions through collaboration among its federal, regional, state, utility, and energy efficiency program members; luminaire manufacturers; lighting designers and other industry stakeholders throughout the U.S. and Canada.

**Driver** - A self-contained power supply that has outputs which match the electrical characteristics of the lamp. It is similar to a ballast and is used to power illumination sources.

**Electrical Testing Laboratory (ETL)** - Independent testing laboratory that performs ballast tests and certifies accuracy of performance data.

**Energy Star** - ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy promoting money savings and the protection of the environment through the use of energy efficient products and practices. [www.energystar.gov](http://www.energystar.gov).

**Federal Communications Commission (FCC)** - The U. S. Federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices operating at frequencies greater than 9 kilohertz (kHz). Typical electronically-ballasted compact fluorescent lamps operate in the 24 - 100 kHz frequency range.

**Heat Sink** - A heat sink is an environment or object that absorbs and dissipates heat from another object. The design of an LED retrofit lamp's heat sink is an integral factor in the overall performance of the lamp.

**High Power LED** - LED chips can be assembled in two primary

methods for integration in an LED retrofit lamp: SMD (Surface Mount Device) and COB (Chip on Board).

- **SMD** - SMD LEDs are enclosed by a housing and the encased LED is soldered onto the printed circuit board (PCB). This method of assembly does not have optimal heat conduction.
- **COB** - COB LEDs are neither encased nor connected. The LED chips are placed directly onto the PCB through wire bonding and connected to the contact surface of the PCB. The benefits of COB technology include longer life, better performance as well as higher light output due to better heat conduction in this assembly structure.

**Illuminance** - The intensity of light falling on a surface area. If the area is measured in square feet, the unit of illuminance is footcandles (fc). If measured in square meters, the unit of illuminance is lux (lx)

**Illuminance Cone Diagram** - Usually used for spotlights or lamps with reflectors. The diagram indicates the maximum illuminance at different distances away from the lamp.

**Illuminating Engineering Society (IES)** - The recognized technical authority on illumination, communicating information on all aspects of good lighting practice to its members, to the lighting community, and to consumers through a variety of programs, publications, and services.

**Integral LED Lamp** - A lamp with LEDs, optics, an integrated LED driver or power source and with an ANSI standardized base designed for connection to an existing luminaire/fixture. These light sources are sold as retrofits or direct replacements for traditional sources.

**Junction Temperature** - Noted as  $T_j$ , is the temperature of the LED's active region.

**LED Array** - An assembly of LED packages on a printed circuit board or substrate, possible with optical elements and additional thermal, mechanical, and electrical interfaces. The device does not contain a power source, does not include an ANSI standardized base, and is not connected directly to the branch circuit.

**LED Chip** - The light producing semiconductor device is incorporated into an LED package.

**LED Lighting Facts** - The US Department of Energy developed the Lighting Facts label for LED luminaires to provide specifiers and end-users with objective information and facilitate comparisons.

**LED Primary Optics** - Optics that form part of the LED and serve to protect and to shape the light output.

**LED Secondary Optics** - Additional components that are not part of the LED itself, such as a lens or diffuser placed over the LED to shape the light.

**Light Emitting Diode (LED)** - A solid-state semiconductor device that converts electrical energy directly into light. On its most basic level, the semiconductor is comprised of two regions. The p-region contains positive electrical charges while the n-region contains

negative electrical charges. When voltage is applied and current begins to flow, the electrons move across the n region into the p region. The process of an electron moving through the p-n junction releases energy. The dispersion of this energy produces photons with visible wavelengths.

**LM79** – An IES approved method describing procedures and precautions in performing reproducible measurements of LEDs including total flux, electrical power, efficacy (lpw) and chromaticity. This is applicable to LED products incorporating control electronics and heat sinks (LED luminaires and integrated LED sources).

**LM80** – An IES approved method for measuring lumen depreciation of solid-state (LED) light sources, array and modules. This does not apply to luminaires and does not define or provide methods for estimation of life.

**Nadir** – The angle that points directly downward, or 0°, from the luminaire.

**Polar Luminous Intensity Graph** – A diagram illustrates the distribution of luminous intensity, in candelas, for the transverse and axial planes of the luminaire. The curve provides a visual guide to the type of distribution expected from the luminaire such as wide, narrow, direct, indirect etc. in addition to intensity.

**Power Factor (PF)** – Measurement of the relationship between the AC source voltage and current. Power factors can range from 0 to 1.0, with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple “resistive” loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. “High” power factor usually means a rating of 0.9 or greater.

**Pulse-Width Modulation** – A method for dimming LEDs by rapidly switches the LED lamp on and off from hundreds to hundreds of thousands modulations per second. At such frequencies LED flickering is undetectable by the human visual system.

**RGB White** – A method of producing white light by combining the output from red, green, and blue LEDs.

**TM-21** – IESNA TM-21-11 provides the method for determining when the “useful lifetime” of an LED is reached, a point when the light emitted from an LED depreciates to a level where it is no longer considered adequate for a specific application through the use of extrapolated data from LM80 testing. Lumen maintenance of LEDs can vary from manufacturer to manufacturer and between different LED package types produced by a single manufacturer. TM-21 ensures consistent lumen maintenance extrapolation methods for all LED manufacturers. TM-21 extrapolations are ‘best-case’ system lifetime estimates, and assume that no other failure mechanisms influence the life of the LED luminaire.

**Total Harmonic Distortion (THD)** - A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

**Transformer** – An electrical device by which the alternating current of one voltage is changed (stepped up or down) to another voltage. Magnetic transformers use a core and coil assembly transformer to start and operate the lamp. Electronic transformers operate lamps at frequencies above 20,000Hz through the use of electronic circuitry.

**Zhaga** – An international organization establishing industry standards for interchangeable LED light source modules.

### LED 3 or 5 YEAR LIMITED WARRANTY

Bulbrite warrants its products to perform according to specifications and are free from defects in material, workmanship and title and to operate from the date of invoice (or date of manufacture if invoice date is not known or available) for the time periods specified for covered products and subject to the Terms and Conditions.

Bulbrite offers a 3 or 5 year limited warranty on LED products (Based on an average household use of 3 hours per day). For a full list of warranty details by category, visit [www.bulbrite.com/led](http://www.bulbrite.com/led)

If a covered product fails within the warranty period, please contact Bulbrite Industries Inc.:  
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Bulbrite reserves the right to examine all failed lamps and/or ballast and reserves the right to be the sole judge as to whether any lamps and/or Bulbrite lighting products are defective and covered under this warranty. This product will be credited, repaired or replaced at Bulbrite's option and associated labor costs will not be covered.

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