

SYLVANIA Lamps

TruWave® Technology Series PAR Family

TruWave® Technology

TruWave® Technology offers the best alternative to natural light by mimicking the natural light spectrum, all while saving energy.

Benefits and Features

- Controls blue wavelengths for lower glare and reduced eye strain to improve readability and supports an improved sleep-wake cycle
- Perfect fit where clean light color rendering is needed for seeing realistic, vivid colors without sacrificing light output
- Properly saturates red to make building spaces and flesh tones accurate and vibrant, without oversaturating (which compromises energy efficiency)
- Exceptional color quality without the loss of efficacy typical of most 90+ CRI solutions
- Up to 85 LPW
- 3000K, 3500K and 5000K color temperatures
 - 3500K available in PAR20, PAR30, PAR38
 - 4000K available in PAR20, PAR30, PAR38
- CRI 90+
- Available beam angles: 25° and 40°

Electrical

- 120VAC
- Power factor >0.90
- Dimmable down to 10%

Rated Life

- 25,000 hours (L₇₀)

Warranty

- 5 year limited lamp warranty
- NLB Trusted Warranty Program

Ambient Operating Range

- -4°F to 113°F (-20°C to 45°C)



Wattage Comparison

| PAR Lamp | Traditional Source | Traditional System Wattage | LED System Wattage | Energy Savings |
|----------|--------------------|----------------------------|--------------------|----------------|
| PAR16 | Halogen | 50 | 6 | \$121 |
| PAR20 | Halogen | 50 | 6.5 | \$119.63 |
| PAR30 | Halogen | 75 | 10 | \$181.50 |
| PAR38 | Halogen | 100 | 13 | \$211.75 |
| PAR38 | Halogen | 120 | 14.5 | \$290 |
| PAR38 | Halogen | 120 | 15.5 | \$291.50 |

Certifications and Listings

- cETLus
- RoHS
- CEC Title 20

Installation

- Suitable for indoor and outdoor dry, damp and wet locations
- 15.5W not for use in enclosed fixtures
- Not for use in emergency light fixtures or exit signs



| | |
|-------------|------|
| Catalog # | Type |
| Project | |
| Comments | |
| Prepared by | |

Ordering Guide

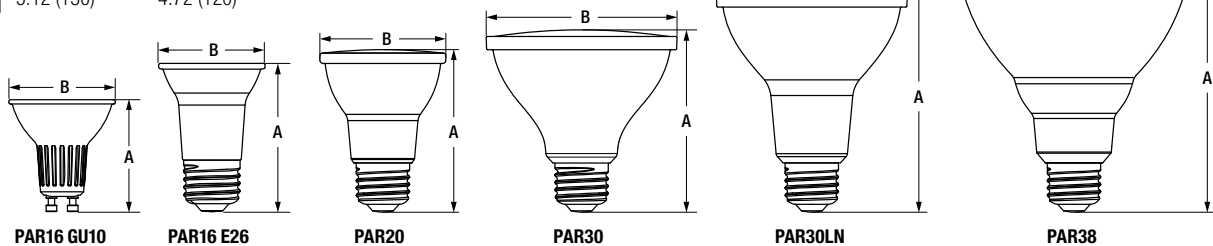
| LED | XX | PARXX | XXXX | DIM | 9 | XX | TL | XXX | XX | GL | RP |
|-----|---|--|------------------------------------|-------------------|---------|---|---|-------------------------------------|----------------------|------------|---------------------|
| LED | Wattage 6 = 6 Watts 6.5 = 6.5 Watts 10 = 10 Watts 13 = 13 Watts 14.5 = 14.5 Watts 15.5 = 15.5 Watts | Lamp Type PAR16, PAR20, PAR30, PAR30LN, PAR38 | Base Blank = E26 GU10 = GU10 | DIM = Dimmable | 9 = 90+ | Color Temperature 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K | TL = Natural with TruWave® Technology | FL = Flood NFL = Narrow Flood | 40 = 40° 25 = 25° | GL = Glass | RP = Retail Pack |

Ordering Information

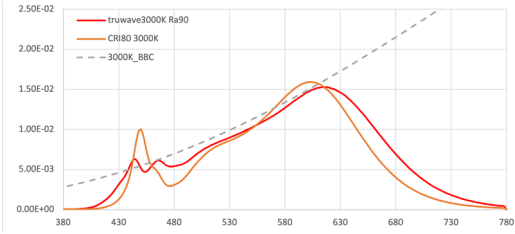
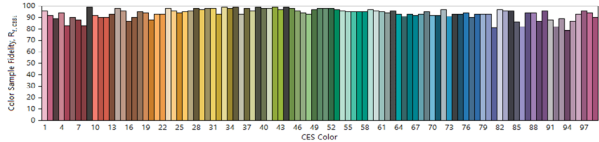
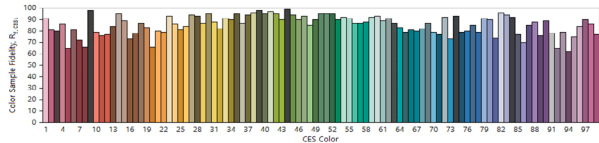
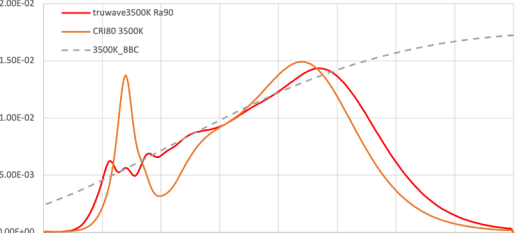
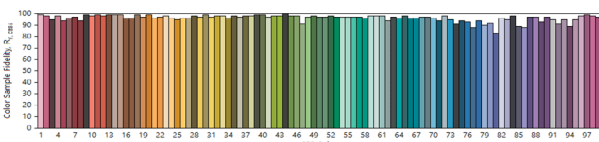
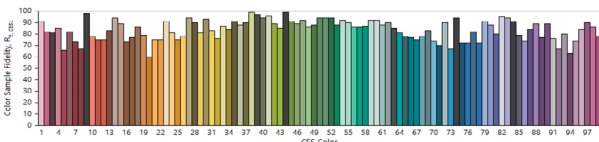
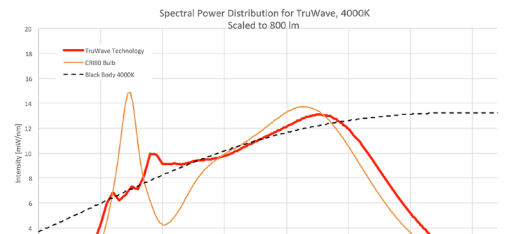
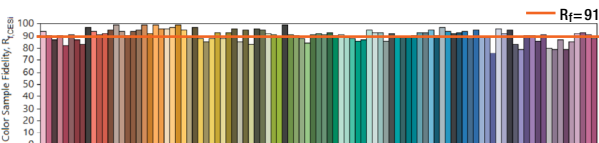
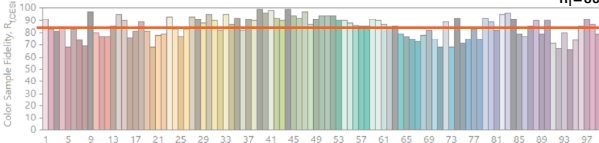
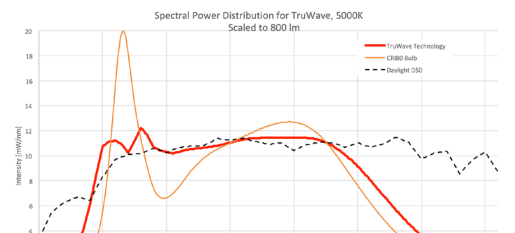
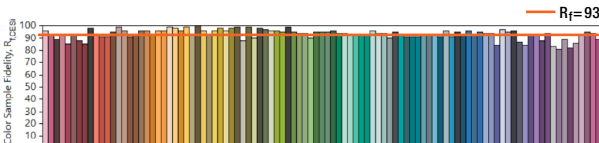
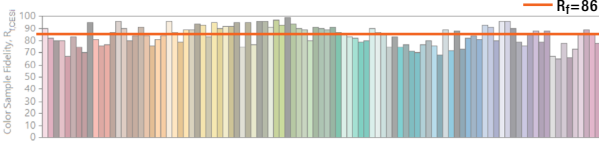
| Item Number | Ordering Abbreviation | Power (W) | Base Type | Replaces | Input Voltage | Average Life (hrs) | Typical Lumens (lm) | CBCP | CCT | CRI |
|-------------|--|-----------|-----------|--------------|---------------|--------------------|---------------------|------|-------|-----|
| 40930 | LED6PAR16DIM930TLFL40GLRP 6/CS 1/SKU | 6 | E26 | 50W Halogen | 120V | 25,000 | 450 | 720 | 3000K | 90+ |
| 40931 | LED6PAR16DIM950TLFL40GLRP 6/CS 1/SKU | 6 | E26 | 50W Halogen | 120V | 25,000 | 450 | 720 | 5000K | 90+ |
| 40932 | LED6PAR16GU10DIM930TLFL40GLRP 6/CS 1/SKU | 6 | GU10 | 50W Halogen | 120V | 25,000 | 450 | 720 | 3000K | 90+ |
| 40933 | LED6PAR16GU10DIM950TLFL40GLRP 6/CS 1/SKU | 6 | GU10 | 50W Halogen | 120V | 25,000 | 450 | 720 | 5000K | 90+ |
| 40920 | LED6.5PAR20DIM930TLFL40GLRP 6/CS 1/SKU | 6.5 | E26 | 50W Halogen | 120V | 25,000 | 550 | 1251 | 3000K | 90+ |
| 41156 | LED6.5PAR20DIM935TLFL40GLRP 6/CS 1/SKU | 6.5 | E26 | 50W Halogen | 120V | 25,000 | 550 | 1251 | 3500K | 90+ |
| 41119 | LED6.5PAR20DIM940TLFL40GLRP 6/CS 1/SKU | 6.5 | E26 | 50W Halogen | 120V | 25,000 | 550 | 1251 | 4000K | 90+ |
| 40921 | LED6.5PAR20DIM950TLFL40GLRP 6/CS 1/SKU | 6.5 | E26 | 50W Halogen | 120V | 25,000 | 550 | 1251 | 5000K | 90+ |
| 40914 | LED10PAR30DIM930TLNFL25GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 4310 | 3000K | 90+ |
| 41159 | LED10PAR30DIM935TLFL40GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 1731 | 3500K | 90+ |
| 41118 | LED10PAR30DIM940TLFL40GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 1731 | 4000K | 90+ |
| 40915 | LED10PAR30DIM950TLNFL25GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 4310 | 5000K | 90+ |
| 40916 | LED10PAR30DIM935TLFL40GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 1731 | 3000K | 90+ |
| 40917 | LED10PAR30DIM950TLFL40GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 1731 | 5000K | 90+ |
| 40910 | LED10PAR30LNDIM930TLNFL25GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 4310 | 3000K | 90+ |
| 40911 | LED10PAR30LNDIM950TLNFL25GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 4310 | 5000K | 90+ |
| 40912 | LED10PAR30LNDIM930TLFL40GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 1731 | 3000K | 90+ |
| 40913 | LED10PAR30LNDIM950TLFL40GLRP 6/CS 1/SKU | 10 | E26 | 75W Halogen | 120V | 25,000 | 850 | 1731 | 5000K | 90+ |
| 40899 | LED13PAR38DIM930TLNFL25GLRP 6/CS 1/SKU | 13 | E26 | 100W Halogen | 120V | 25,000 | 1100 | 5591 | 3000K | 90+ |
| 40900 | LED13PAR38DIM950TLNFL25GLRP 6/CS 1/SKU | 13 | E26 | 100W Halogen | 120V | 25,000 | 1100 | 5591 | 5000K | 90+ |
| 40901 | LED13PAR38DIM930TLFL40GLRP 6/CS 1/SKU | 13 | E26 | 100W Halogen | 120V | 25,000 | 1100 | 1731 | 3000K | 90+ |
| 41157 | LED13PAR38DIM935TLFL40GLRP 6/CS 1/SKU | 13 | E26 | 100W Halogen | 120V | 25,000 | 1100 | 1731 | 3500K | 90+ |
| 41115 | LED13PAR38DIM940TLFL40GLRP 6/CS 1/SKU | 13 | E26 | 100W Halogen | 120V | 25,000 | 1100 | 1731 | 4000K | 90+ |
| 40902 | LED13PAR38DIM950TLFL40GLRP 6/CS 1/SKU | 13 | E26 | 100W Halogen | 120V | 25,000 | 1100 | 1731 | 5000K | 90+ |
| 41863 | LED14.5PAR38DIM930TLNFL25GLRP 6/CS 1/SKU | 14.5 | E26 | 120W Halogen | 120V | 25,000 | 1350 | 4241 | 3000K | 90+ |
| 41864 | LED14.5PAR38DIM950TLNFL25GLRP 6/CS 1/SKU | 14.5 | E26 | 120W Halogen | 120V | 25,000 | 1350 | 4241 | 5000K | 90+ |
| 41865 | LED14.5PAR38DIM930TLFL40GLRP 6/CS 1/SKU | 14.5 | E26 | 120W Halogen | 120V | 25,000 | 1350 | 1758 | 3000K | 90+ |
| 41866 | LED14.5PAR38DIM950TLFL40GLRP 6/CS 1/SKU | 14.5 | E26 | 120W Halogen | 120V | 25,000 | 1350 | 1758 | 5000K | 90+ |
| 40903 | LED15.5PAR38DIM930TLNFL25GLRP 6/CS 1/SKU | 15.5 | E26 | 120W Halogen | 120V | 25,000 | 1250 | 6284 | 3000K | 90+ |
| 41116 | LED15.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU | 15.5 | E26 | 120W Halogen | 120V | 25,000 | 1250 | 2377 | 4000K | 90+ |

Physical Information

| | (A) Height inches (mm) | (B) Diameter inches (mm) |
|------------|------------------------------|--------------------------------|
| PAR16 GU10 | 2.05 (52) | 1.97 (50) |
| PAR16 E26 | 2.76 (70) | 1.97 (50) |
| PAR20 | 3.19 (81) | 2.48 (63) |
| PAR30 | 3.54 (90) | 3.74 (95) |
| PAR30LN | 4.41 (112) | 3.74 (95) |
| PAR38 | 5.12 (130) | 4.72 (120) |



Color Quality Comparison

| CCT | Spectral Power Distribution | TM-30-18 Fidelity Index |
|-------|--|---|
| 3000K |  <p>truwave3000K Ra90 CRI80 3000K 3000K_BBC</p> |  <p>Color Sample Fidelity, $R_{f,CES}$</p> <p>TruWave® LED – Optimized Color Fidelity</p>  <p>80 CRI LED</p> |
| 3500K |  <p>truwave3500K Ra90 CRI80 3500K 3500K_BBC</p> |  <p>Color Sample Fidelity, $R_{f,CES}$</p> <p>TruWave® LED – Optimized Color Fidelity</p>  <p>80 CRI LED</p> |
| 4000K |  <p>Spectral Power Distribution for TruWave, 4000K Scaled to 800 lm</p> <p>TruWave Technology CRI80 Bulb Black Body 4000K</p> |  <p>Color Sample Fidelity, $R_{f,CES}$</p> <p>TruWave® LED – Optimized Color Fidelity</p> <p>$R_f = 91$</p>  <p>80 CRI LED</p> <p>$R_f = 85$</p> |
| 5000K |  <p>Spectral Power Distribution for TruWave, 5000K Scaled to 800 lm</p> <p>TruWave Technology CRI80 Bulb Daylight D50</p> |  <p>Color Sample Fidelity, $R_{f,CES}$</p> <p>TruWave® LED – Optimized Color Fidelity</p> <p>$R_f = 93$</p>  <p>80 CRI LED</p> <p>$R_f = 86$</p> |

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