

# 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 (L<sub>70</sub>)

### 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                         | 10.5               | \$181.50       |
| PAR38    | Halogen            | 100                        | 11.5               | \$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

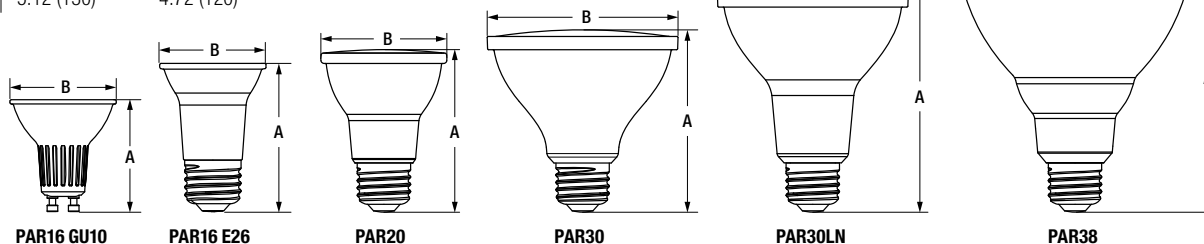
| LED | XX   | PARXX  | XXXX                               | DIM               | 9              | XX  | TL  | XXX                                 | XX                   | GL         | RP                  |
|-----|--|--|------------------------------------|-------------------|----------------|---|---|-------------------------------------|----------------------|------------|---------------------|
| LED | Wattage<br>6 = 6 Watts<br>6.5 = 6.5 Watts<br>10 = 10 Watts<br>10.5 = 10.5 Watts<br>11.5 = 11.5 Watts<br>14.5 = 14.5 Watts<br>15.5 = 15.5 Watts | Lamp Type<br>PAR16, PAR20,<br>PAR30, PAR30LN,<br>PAR38 | Base<br>Blank = E26<br>GU10 = GU10 | DIM =<br>Dimmable | CRI<br>9 = 90+ | Color Temperature<br>30 = 3000K<br>35 = 3500K<br>40 = 4000K<br>50 = 5000K | TL = Natural<br>with TruWave®<br>Technology | FL = Flood<br>NFL = Narrow<br>Flood | 40 = 40°<br>25 = 25° | GL = Glass | RP = Retail<br>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+ |
| 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             | 875                 | 1731 | 4000K | 90+ |
| 40911       | LED10PAR30LNDIM950TLNFL25GLRP 6/CS 1/SKU   | 10        | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 4310 | 5000K | 90+ |
| 40914       | LED10.5PAR30DIM930TLNFL25GLRP 6/CS 1/SKU   | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 875                 | 4310 | 3000K | 90+ |
| 40915       | LED10.5PAR30DIM950TLNFL25GLRP 6/CS 1/SKU   | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 4310 | 5000K | 90+ |
| 40916       | LED10.5PAR30DIM930TLFL40GLRP 6/CS 1/SKU    | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 1731 | 3000K | 90+ |
| 40917       | LED10.5PAR30DIM950TLFL40GLRP 6/CS 1/SKU    | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 1731 | 5000K | 90+ |
| 40910       | LED10.5PAR30LNDIM930TLNFL25GLRP 6/CS 1/SKU | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 4310 | 3000K | 90+ |
| 40912       | LED10.5PAR30LNDIM930TLFL40GLRP 6/CS 1/SKU  | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 1731 | 3000K | 90+ |
| 40913       | LED10.5PAR30LNDIM950TLFL40GLRP 6/CS 1/SKU  | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 875                 | 1731 | 5000K | 90+ |
| 40899       | LED11.5PAR38DIM930TLNFL25GLRP 6/CS 1/SKU   | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 5591 | 3000K | 90+ |
| 40900       | LED11.5PAR38DIM950TLNFL25GLRP 6/CS 1/SKU   | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 5591 | 5000K | 90+ |
| 40901       | LED11.5PAR38DIM930TLFL40GLRP 6/CS 1/SKU    | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 1731 | 3000K | 90+ |
| 41157       | LED11.5PAR38DIM935TLFL40GLRP 6/CS 1/SKU    | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 1731 | 3500K | 90+ |
| 41115       | LED11.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU    | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 1731 | 4000K | 90+ |
| 40902       | LED11.5PAR38DIM950TLFL40GLRP 6/CS 1/SKU    | 11.5      | 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+ |
| 41867       | LED14.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU    | 14.5      | E26       | 120W Halogen | 120V          | 25,000             | 1350                | 1758 | 4000K | 90+ |
| 41868       | LED14.5PAR38DIM935TLFL40GLRP 6/CS 1/SKU    | 14.5      | E26       | 120W Halogen | 120V          | 25,000             | 1350                | 1758 | 3500K | 90+ |
| 41116       | LED15.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU    | 15.5      | E26       | 120W Halogen | 120V          | 25,000             | 1250                | 2377 | 4000K | 90+ |

Physical Information

|            | (A)<br>Height<br>inches (mm) | (B)<br>Diameter<br>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>Graph showing Spectral Power Distribution for 3000K. The x-axis is Wavelength (nm) from 380 to 780. The y-axis is Intensity (mW/nm) from 0.00E+00 to 2.50E-02. Three curves are shown: TruWave 3000K Ra90 (solid red), CRI80 3000K (solid orange), and 3000K BBC (dashed grey).</p>                    | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity, and the bottom chart is for 80 CRI LED. Both show high fidelity across all colors.</p>   |
| 3500K | <p>Graph showing Spectral Power Distribution for 3500K. The x-axis is Wavelength (nm) from 380 to 780. The y-axis is Intensity (mW/nm) from 0.00E+00 to 2.00E-02. Three curves are shown: TruWave 3500K Ra90 (solid red), CRI80 3500K (solid orange), and 3500K BBC (dashed grey).</p>                    | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity, and the bottom chart is for 80 CRI LED. Both show high fidelity across all colors.</p>   |
| 4000K | <p>Graph showing Spectral Power Distribution for TruWave, 4000K Scaled to 800 lm. The x-axis is Wavelength (nm) from 380 to 730. The y-axis is Intensity (mW/nm) from 0 to 20. Three curves are shown: TruWave Technology (solid red), CRI80 Bulb (solid orange), and Black Body 4000K (dashed grey).</p> | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity with <math>R_f=91</math>, and the bottom chart is for 80 CRI LED with <math>R_f=85</math>. Both show high fidelity across all colors.</p> |
| 5000K | <p>Graph showing Spectral Power Distribution for TruWave, 5000K Scaled to 800 lm. The x-axis is Wavelength (nm) from 380 to 740. The y-axis is Intensity (mW/nm) from 0 to 20. Three curves are shown: TruWave Technology (solid red), CRI80 Bulb (solid orange), and Daylight D50 (dashed grey).</p>     | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity with <math>R_f=93</math>, and the bottom chart is for 80 CRI LED with <math>R_f=86</math>. Both show high fidelity across all colors.</p> |

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# 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 (L<sub>70</sub>)

### 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                         | 10.5               | \$181.50       |
| PAR38    | Halogen            | 100                        | 11.5               | \$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

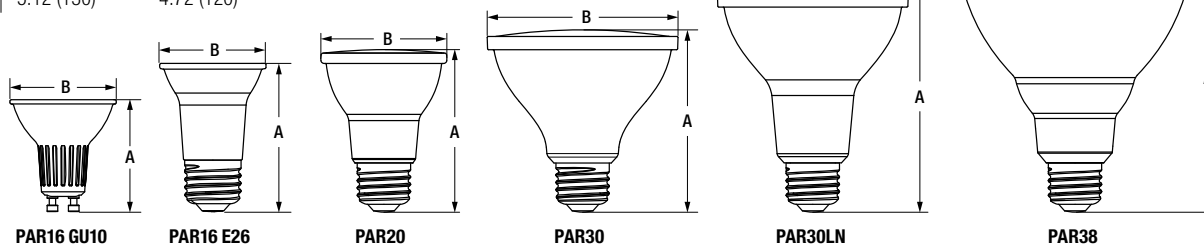
| LED | XX   | PARXX  | XXXX                               | DIM               | 9              | XX  | TL  | XXX                                 | XX                   | GL         | RP                  |
|-----|--|--|------------------------------------|-------------------|----------------|---|---|-------------------------------------|----------------------|------------|---------------------|
| LED | Wattage<br>6 = 6 Watts<br>6.5 = 6.5 Watts<br>10 = 10 Watts<br>10.5 = 10.5 Watts<br>11.5 = 11.5 Watts<br>14.5 = 14.5 Watts<br>15.5 = 15.5 Watts | Lamp Type<br>PAR16, PAR20,<br>PAR30, PAR30LN,<br>PAR38 | Base<br>Blank = E26<br>GU10 = GU10 | DIM =<br>Dimmable | CRI<br>9 = 90+ | Color Temperature<br>30 = 3000K<br>35 = 3500K<br>40 = 4000K<br>50 = 5000K | TL = Natural<br>with TruWave®<br>Technology | FL = Flood<br>NFL = Narrow<br>Flood | 40 = 40°<br>25 = 25° | GL = Glass | RP = Retail<br>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+ |
| 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             | 875                 | 1731 | 4000K | 90+ |
| 40911       | LED10PAR30LNDIM950TLNFL25GLRP 6/CS 1/SKU   | 10        | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 4310 | 5000K | 90+ |
| 40914       | LED10.5PAR30DIM930TLNFL25GLRP 6/CS 1/SKU   | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 875                 | 4310 | 3000K | 90+ |
| 40915       | LED10.5PAR30DIM950TLNFL25GLRP 6/CS 1/SKU   | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 4310 | 5000K | 90+ |
| 40916       | LED10.5PAR30DIM930TLFL40GLRP 6/CS 1/SKU    | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 1731 | 3000K | 90+ |
| 40917       | LED10.5PAR30DIM950TLFL40GLRP 6/CS 1/SKU    | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 1731 | 5000K | 90+ |
| 40910       | LED10.5PAR30LNDIM930TLNFL25GLRP 6/CS 1/SKU | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 4310 | 3000K | 90+ |
| 40912       | LED10.5PAR30LNDIM930TLFL40GLRP 6/CS 1/SKU  | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 850                 | 1731 | 3000K | 90+ |
| 40913       | LED10.5PAR30LNDIM950TLFL40GLRP 6/CS 1/SKU  | 10.5      | E26       | 75W Halogen  | 120V          | 25,000             | 875                 | 1731 | 5000K | 90+ |
| 40899       | LED11.5PAR38DIM930TLNFL25GLRP 6/CS 1/SKU   | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 5591 | 3000K | 90+ |
| 40900       | LED11.5PAR38DIM950TLNFL25GLRP 6/CS 1/SKU   | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 5591 | 5000K | 90+ |
| 40901       | LED11.5PAR38DIM930TLFL40GLRP 6/CS 1/SKU    | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 1731 | 3000K | 90+ |
| 41157       | LED11.5PAR38DIM935TLFL40GLRP 6/CS 1/SKU    | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 1731 | 3500K | 90+ |
| 41115       | LED11.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU    | 11.5      | E26       | 100W Halogen | 120V          | 25,000             | 1100                | 1731 | 4000K | 90+ |
| 40902       | LED11.5PAR38DIM950TLFL40GLRP 6/CS 1/SKU    | 11.5      | 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+ |
| 41867       | LED14.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU    | 14.5      | E26       | 120W Halogen | 120V          | 25,000             | 1350                | 1758 | 4000K | 90+ |
| 41868       | LED14.5PAR38DIM935TLFL40GLRP 6/CS 1/SKU    | 14.5      | E26       | 120W Halogen | 120V          | 25,000             | 1350                | 1758 | 3500K | 90+ |
| 41116       | LED15.5PAR38DIM940TLFL40GLRP 6/CS 1/SKU    | 15.5      | E26       | 120W Halogen | 120V          | 25,000             | 1250                | 2377 | 4000K | 90+ |

Physical Information

|            | (A)<br>Height<br>inches (mm) | (B)<br>Diameter<br>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>Graph showing Spectral Power Distribution for 3000K. The x-axis is Wavelength (nm) from 380 to 780. The y-axis is Intensity (mW/nm) from 0.00E+00 to 2.50E-02. Three curves are shown: TruWave 3000K Ra90 (solid red), CRI80 3000K (solid orange), and 3000K BBC (dashed grey).</p>                    | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity (Ra90) and the bottom chart is for 80 CRI LED. Both show high fidelity across most colors, with the TruWave LED generally performing better.</p>   |
| 3500K | <p>Graph showing Spectral Power Distribution for 3500K. The x-axis is Wavelength (nm) from 380 to 780. The y-axis is Intensity (mW/nm) from 0.00E+00 to 2.00E-02. Three curves are shown: TruWave 3500K Ra90 (solid red), CRI80 3500K (solid orange), and 3500K BBC (dashed grey).</p>                    | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity (Ra90) and the bottom chart is for 80 CRI LED. Both show high fidelity across most colors, with the TruWave LED generally performing better.</p>   |
| 4000K | <p>Graph showing Spectral Power Distribution for TruWave, 4000K Scaled to 800 lm. The x-axis is Wavelength (nm) from 380 to 730. The y-axis is Intensity (mW/nm) from 0 to 20. Three curves are shown: TruWave Technology (solid red), CRI80 Bulb (solid orange), and Black Body 4000K (dashed grey).</p> | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity with <math>R_f = 91</math> and the bottom chart is for 80 CRI LED with <math>R_f = 85</math>. Both show high fidelity across most colors, with the TruWave LED significantly outperforming the 80 CRI LED.</p> |
| 5000K | <p>Graph showing Spectral Power Distribution for TruWave, 5000K Scaled to 800 lm. The x-axis is Wavelength (nm) from 380 to 740. The y-axis is Intensity (mW/nm) from 0 to 20. Three curves are shown: TruWave Technology (solid red), CRI80 Bulb (solid orange), and Daylight D50 (dashed grey).</p>     | <p>Two bar charts showing Color Sample Fidelity, <math>R_{f,CES}</math>, vs. CES Color (1-97). The top chart is for TruWave LED - Optimized Color Fidelity with <math>R_f = 93</math> and the bottom chart is for 80 CRI LED with <math>R_f = 86</math>. Both show high fidelity across most colors, with the TruWave LED significantly outperforming the 80 CRI LED.</p> |

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