

|               |       |
|---------------|-------|
| Project Name: | Type: |
| Part Number:  | Date: |



GREENCREATIVE

# REFINE PAR FAMILY

## FEATURES

- Suitable to replace 50W, 75W, 120W halogen lamps
- Powered by TRUE CHROMA: delivers best in class color accuracy and consistency
- Proprietary designed optic maximizes output, efficacy, color fidelity, and visual comfort
- High CRI and R values (R9 85, R13 95) deliver richer reds and healthier skin tones
- Smooth dimming with existing dimmers\*
- Compact size 1:1 halogen form factor
- Spot, Narrow, Flood beam angles
- Suitable for damp locations and totally enclosed fixtures
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Rated Lifetime (L70): 50,000hrs
- 5 year limited warranty\*\*



## SPECIFICATIONS

| Product | Model                  | Equiv. | Wattage (W) | CCT   | Lumens | Efficacy (LPW) | Input Voltage | Beam Angle | CBP (cd) | CRI | Dim.* | Power Factor | Base | Fixture Rating | TRUE CHROMA | ES / JA8 / T20 |
|---------|------------------------|--------|-------------|-------|--------|----------------|---------------|------------|----------|-----|-------|--------------|------|----------------|-------------|----------------|
| 34890   | 6.5PAR20DIM/927SP15    | 50W    | 6.5         | 2700K | 520    | 80             | 120V          | 15°        | 5,000    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34891   | 6.5PAR20DIM/927NF25    | 50W    | 6.5         | 2700K | 560    | 86             | 120V          | 25°        | 1,800    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34892   | 6.5PAR20DIM/927FL40    | 50W    | 6.5         | 2700K | 560    | 86             | 120V          | 40°        | 1,100    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34893   | 6.5PAR20DIM/930SP15    | 50W    | 6.5         | 3000K | 550    | 85             | 120V          | 15°        | 5,300    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34894   | 6.5PAR20DIM/930NF25    | 50W    | 6.5         | 3000K | 580    | 89             | 120V          | 25°        | 1,900    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34895   | 6.5PAR20DIM/930FL40    | 50W    | 6.5         | 3000K | 580    | 89             | 120V          | 40°        | 1,200    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34896   | 6.5PAR20DIM/940FL40    | 50W    | 6.5         | 4000K | 600    | 92             | 120V          | 40°        | 1,300    | 95  | Yes   | 0.9          | E26  | Enclosed       | NO          | ✓/✓/✓          |
| 34897   | 6.5PAR20DIM/930FL40/B  | 50W    | 6.5         | 3000K | 580    | 89             | 120V          | 40°        | 1,200    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34898   | 11PAR30DIM/927SP15     | 75W    | 11          | 2700K | 950    | 86             | 120V          | 15°        | 10,000   | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34899   | 11PAR30DIM/927NF25     | 75W    | 11          | 2700K | 950    | 86             | 120V          | 25°        | 4,500    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34900   | 11PAR30DIM/927FL40     | 75W    | 11          | 2700K | 950    | 86             | 120V          | 40°        | 1,700    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34901   | 11PAR30DIM/930SP15     | 75W    | 11          | 3000K | 990    | 90             | 120V          | 15°        | 10,600   | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34902   | 11PAR30DIM/930NF25     | 75W    | 11          | 3000K | 990    | 90             | 120V          | 25°        | 4,700    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34903   | 11PAR30DIM/930FL40     | 75W    | 11          | 3000K | 990    | 90             | 120V          | 40°        | 1,750    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34904   | 11PAR30DIM/940FL40     | 75W    | 11          | 4000K | 1,030  | 94             | 120V          | 40°        | 1,850    | 95  | Yes   | 0.9          | E26  | Enclosed       | NO          | ✓/✓/✓          |
| 34905   | 11PAR30DIM/930FL40/B   | 75W    | 11          | 3000K | 990    | 90             | 120V          | 40°        | 1,750    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34906   | 11PAR30SNDIM/927SP15   | 75W    | 11          | 2700K | 950    | 86             | 120V          | 15°        | 10,000   | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34907   | 11PAR30SNDIM/927NF25   | 75W    | 11          | 2700K | 950    | 86             | 120V          | 25°        | 4,500    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34908   | 11PAR30SNDIM/927FL40   | 75W    | 11          | 2700K | 950    | 86             | 120V          | 40°        | 1,700    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34909   | 11PAR30SNDIM/930SP15   | 75W    | 11          | 3000K | 990    | 90             | 120V          | 15°        | 10,600   | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34910   | 11PAR30SNDIM/930NF25   | 75W    | 11          | 3000K | 990    | 90             | 120V          | 25°        | 4,700    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 35939   | 11PAR30SNDIM/930NF25/B | 75W    | 11          | 3000K | 990    | 90             | 120V          | 25°        | 4,700    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34911   | 11PAR30SNDIM/930FL40   | 75W    | 11          | 3000K | 990    | 90             | 120V          | 40°        | 1,750    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |
| 34912   | 11PAR30SNDIM/940FL40   | 75W    | 11          | 4000K | 1,030  | 94             | 120V          | 40°        | 1,850    | 95  | Yes   | 0.9          | E26  | Enclosed       | NO          | ✓/✓/✓          |
| 34913   | 11PAR30SNDIM/930FL40/B | 75W    | 11          | 3000K | 990    | 90             | 120V          | 40°        | 1,750    | 95  | Yes   | 0.9          | E26  | Enclosed       | C           | ✓/✓/✓          |



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# REFINE PAR FAMILY

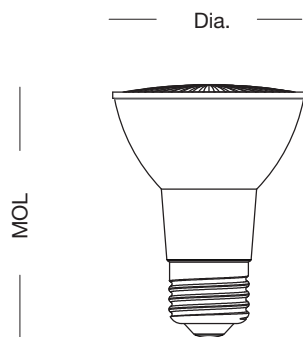
## SPECIFICATIONS

| Product | Model                     | Equiv. | Wattage (W) | CCT   | Lumens | Efficacy (LPW) | Input Voltage | Beam Angle | CBCP (cd) | CRI | Dim.* | Power Factor | Base | Fixture Rating | TRUE CHROMA | ES/JA8/T20 |
|---------|---------------------------|--------|-------------|-------|--------|----------------|---------------|------------|-----------|-----|-------|--------------|------|----------------|-------------|------------|
| 34916   | 15.5PAR38DIM/927SP15      | 120W   | 15.5        | 2700K | 1,320  | 85             | 120V          | 15°        | 14,000    | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34917   | 15.5PAR38DIM/927NF25      | 120W   | 15.5        | 2700K | 1,320  | 85             | 120V          | 25°        | 6,750     | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34918   | 15.5PAR38DIM/927FL40      | 120W   | 15.5        | 2700K | 1,320  | 85             | 120V          | 40°        | 2,800     | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34919   | 15.5PAR38DIM/930SP15      | 120W   | 15.5        | 3000K | 1,370  | 88             | 120V          | 15°        | 14,700    | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34920   | 15.5PAR38DIM/930NF25      | 120W   | 15.5        | 3000K | 1,370  | 88             | 120V          | 25°        | 7,000     | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34921   | 15.5PAR38DIM/930FL40      | 120W   | 15.5        | 3000K | 1,370  | 88             | 120V          | 40°        | 2,900     | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34922   | 15.5PAR38DIM/940FL40      | 120W   | 15.5        | 4000K | 1,420  | 92             | 120V          | 40°        | 3,000     | 95  | Yes   | 0.9          | E26  | Enclosed       | NO          | ✓/✓/✓      |
| 34923   | 15.5PAR38DIM/930NF25/B    | 120W   | 15.5        | 3000K | 1,370  | 88             | 120V          | 25°        | 7,000     | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34924   | 15.5PAR38DIM/930FL40/B    | 120W   | 15.5        | 3000K | 1,370  | 88             | 120V          | 40°        | 2,900     | 95  | Yes   | 0.9          | E26  | Enclosed       |             | ✓/✓/✓      |
| 34925   | 15.5PAR38DIM/930FL40/GU24 | 120W   | 15.5        | 3000K | 1,370  | 88             | 120V          | 40°        | 2,900     | 95  | Yes   | 0.9          | GU24 | Enclosed       |             | ✓/✓/✓      |
| 34914   | 11PAR30/930FL40/277V      | 75W    | 11          | 3000K | 990    | 90             | 120-277V      | 40°        | 1,750     | 95  | No    | 0.9          | E26  | Enclosed       |             | ✓/NA./✓    |
| 34915   | 11PAR30/940FL40/277V      | 75W    | 11          | 4000K | 1,030  | 94             | 120-277V      | 40°        | 1,850     | 95  | No    | 0.9          | E26  | Enclosed       | NO          | ✓/NA./✓    |
| 34926   | 15.5PAR38/930FL40/277V    | 120W   | 15.5        | 3000K | 1,370  | 88             | 120-277V      | 40°        | 2,900     | 95  | No    | 0.9          | E26  | Enclosed       |             | ✓/NA./✓    |
| 34927   | 15.5PAR38/940FL40/277V    | 120W   | 15.5        | 4000K | 1,420  | 92             | 120-277V      | 40°        | 3,000     | 95  | No    | 0.9          | E26  | Enclosed       | NO          | ✓/NA./✓    |

\*This lamp might not be compatible with all dimmers. Please visit [www.greencreative.com](http://www.greencreative.com) for compatibility information.

\*\*Please visit [www.greencreative.com](http://www.greencreative.com) for Limited Warranty terms.

## DIMENSIONS & WEIGHT



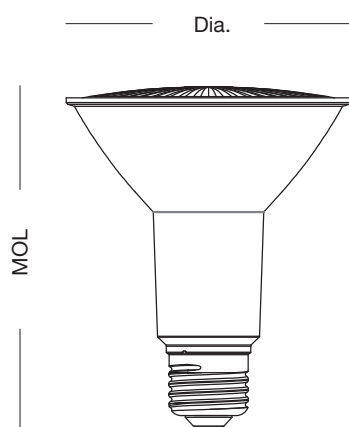
| Model                 | Base | MOL    | Dia.   | Weight |
|-----------------------|------|--------|--------|--------|
| 6.5PAR20DIM/927SP15   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/927NF25   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/927FL40   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930SP15   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930NF25   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930FL40   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/940FL40   | E26  | 3-1/4" | 2-1/2" | 0.18lb |
| 6.5PAR20DIM/930FL40/B | E26  | 3-1/4" | 2-1/2" | 0.18lb |



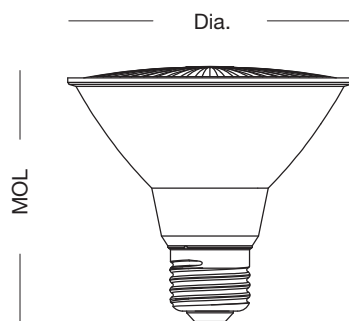
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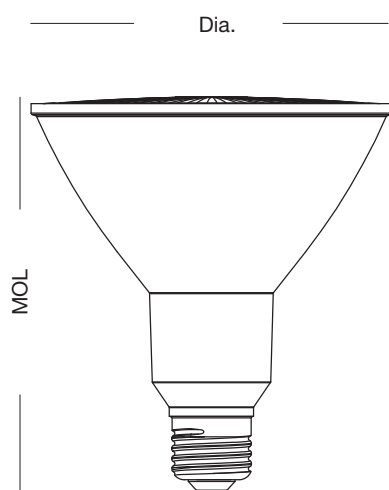
## DIMENSIONS & WEIGHT



| Model                | Base | MOL     | Dia.     | Weight |
|----------------------|------|---------|----------|--------|
| 11PAR30DIM/927SP15   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/927NF25   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/927FL40   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930SP15   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930NF25   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930FL40   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/940FL40   | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30DIM/930FL40/B | E26  | 4-7/16" | 3-11/16" | 0.31lb |
| 11PAR30/930FL40/277V | E26  | 4-7/16" | 3-11/16" | 0.33lb |
| 11PAR30/940FL40/277V | E26  | 4-7/16" | 3-11/16" | 0.33lb |



| Model                  | Base | MOL    | Dia.     | Weight |
|------------------------|------|--------|----------|--------|
| 11PAR30SNDIM/927SP15   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/927NF25   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/927FL40   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/930SP15   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/930NF25   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/930NF25/B | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/930FL40   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/940FL40   | E26  | 3-1/4" | 3-11/16" | 0.3lb  |
| 11PAR30SNDIM/930FL40/B | E26  | 3-1/4" | 3-11/16" | 0.3lb  |



| Model                     | Base | MOL    | Dia.   | Weight |
|---------------------------|------|--------|--------|--------|
| 15.5PAR38DIM/927SP15      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/927NF25      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/927FL40      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930SP15      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930NF25      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930FL40      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/940FL40      | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930NF25/B    | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930FL40/B    | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38DIM/930FL40/GU24 | GU24 | 5-1/8" | 4-5/8" | 0.54lb |
| 15.5PAR38/930FL40/277V    | E26  | 5-1/8" | 4-5/8" | 0.52lb |
| 15.5PAR38/940FL40/277V    | E26  | 5-1/8" | 4-5/8" | 0.52lb |

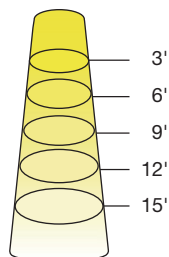


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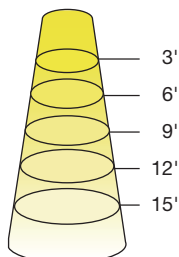
## ILLUMINANCE & CANDELA DISTRIBUTION

6.5PAR20DIM/930SP15



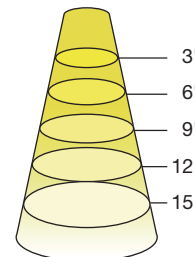
| Diameter | Footcandles |
|----------|-------------|
| 0.8      | 589         |
| 1.6      | 147         |
| 2.4      | 65          |
| 3.2      | 37          |
| 3.9      | 24          |

6.5PAR20DIM/930NF25

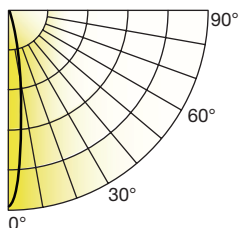


| Diameter | Footcandles |
|----------|-------------|
| 1.3      | 211         |
| 2.7      | 53          |
| 4.0      | 23          |
| 5.3      | 13          |
| 6.7      | 8           |

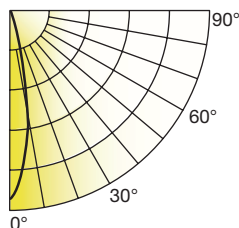
6.5PAR20DIM/930FL40



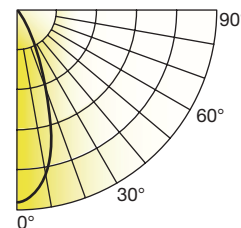
| Diameter | Footcandles |
|----------|-------------|
| 2.2      | 133         |
| 4.4      | 33          |
| 6.6      | 15          |
| 8.7      | 8           |
| 10.9     | 5           |



| Degree | Candela |
|--------|---------|
| 0      | 5300    |
| 5      | 3488    |
| 15     | 564     |
| 25     | 170     |
| 35     | 74      |
| 45     | 40      |

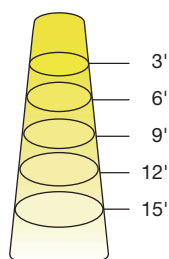


| Degree | Candela |
|--------|---------|
| 0      | 1900    |
| 5      | 1589    |
| 15     | 638     |
| 25     | 219     |
| 35     | 94      |
| 45     | 51      |



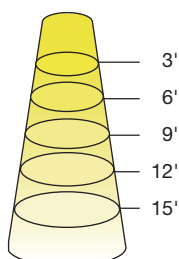
| Degree | Candela |
|--------|---------|
| 0      | 1200    |
| 5      | 1100    |
| 15     | 725     |
| 25     | 365     |
| 35     | 174     |
| 45     | 76      |

11PAR30DIM/930SP15



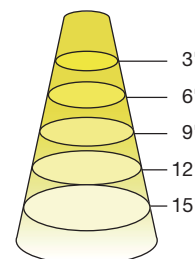
| Diameter | Footcandles |
|----------|-------------|
| 0.8      | 1,178       |
| 1.6      | 294         |
| 2.4      | 131         |
| 3.2      | 74          |
| 3.9      | 47          |

11PAR30DIM/930NF25

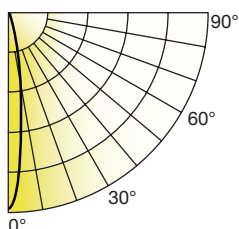


| Diameter | Footcandles |
|----------|-------------|
| 1.3      | 522         |
| 2.7      | 131         |
| 4.0      | 58          |
| 5.3      | 33          |
| 6.7      | 21          |

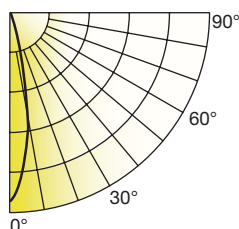
11PAR30DIM/930FL40



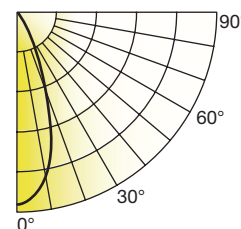
| Diameter | Footcandles |
|----------|-------------|
| 2.2      | 194         |
| 4.4      | 49          |
| 6.6      | 22          |
| 8.7      | 12          |
| 10.9     | 8           |



| Degree | Candela |
|--------|---------|
| 0      | 10,600  |
| 5      | 7,008   |
| 15     | 958     |
| 25     | 174     |
| 35     | 102     |
| 45     | 68      |



| Degree | Candela |
|--------|---------|
| 0      | 4,700   |
| 5      | 3,841   |
| 15     | 1,157   |
| 25     | 213     |
| 35     | 81      |
| 45     | 56      |



| Degree | Candela |
|--------|---------|
| 0      | 1,750   |
| 5      | 1,636   |
| 15     | 991     |
| 25     | 592     |
| 35     | 217     |
| 45     | 64      |

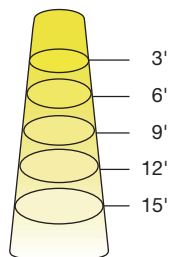


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# REFINE PAR FAMILY

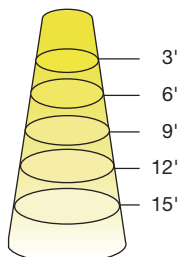
## ILLUMINANCE & CANDELA DISTRIBUTION

11PAR30SNDIM/930SP15



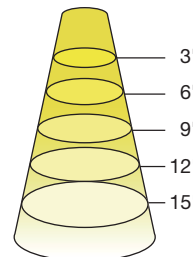
| Diameter | Footcandles |
|----------|-------------|
| 0.8      | 1,178       |
| 1.6      | 294         |
| 2.4      | 131         |
| 3.2      | 74          |
| 3.9      | 47          |

11PAR30SNDIM/930NF25

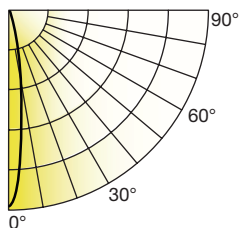


| Diameter | Footcandles |
|----------|-------------|
| 1.3      | 522         |
| 2.7      | 131         |
| 4.0      | 58          |
| 5.3      | 33          |
| 6.7      | 21          |

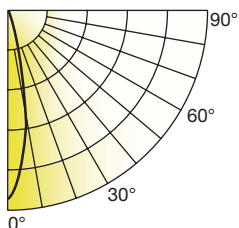
11PAR30SNDIM/930FL40



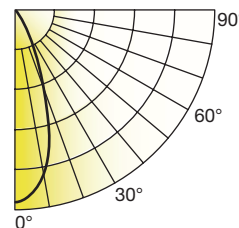
| Diameter | Footcandles |
|----------|-------------|
| 2.2      | 194         |
| 4.4      | 49          |
| 6.6      | 22          |
| 8.7      | 12          |
| 10.9     | 8           |



| Degree | Candela |
|--------|---------|
| 0      | 10,600  |
| 5      | 7,008   |
| 15     | 958     |
| 25     | 174     |
| 35     | 102     |
| 45     | 68      |

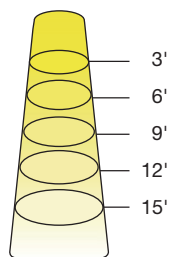


| Degree | Candela |
|--------|---------|
| 0      | 4,700   |
| 5      | 3,841   |
| 15     | 1,157   |
| 25     | 213     |
| 35     | 81      |
| 45     | 56      |



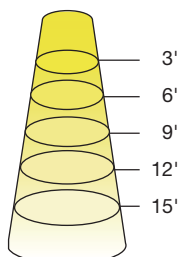
| Degree | Candela |
|--------|---------|
| 0      | 1,750   |
| 5      | 1,636   |
| 15     | 991     |
| 25     | 592     |
| 35     | 217     |
| 45     | 64      |

15.5PAR38DIM/930SP15



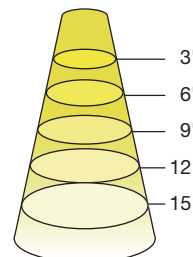
| Diameter | Footcandles |
|----------|-------------|
| 0.8      | 1,633       |
| 1.6      | 408         |
| 2.4      | 181         |
| 3.2      | 102         |
| 3.9      | 65          |

15.5PAR38DIM/930NF25

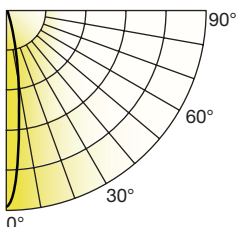


| Diameter | Footcandles |
|----------|-------------|
| 1.3      | 778         |
| 2.7      | 194         |
| 4.0      | 86          |
| 5.3      | 49          |
| 6.7      | 31          |

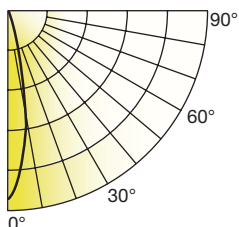
15.5PAR38DIM/930FL40



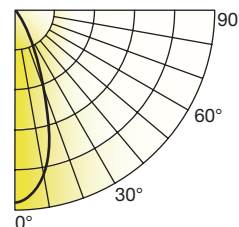
| Diameter | Footcandles |
|----------|-------------|
| 2.2      | 322         |
| 4.4      | 81          |
| 6.6      | 36          |
| 8.7      | 20          |
| 10.9     | 13          |



| Degree | Candela |
|--------|---------|
| 0      | 14,700  |
| 5      | 9,095   |
| 15     | 1,435   |
| 25     | 256     |
| 35     | 93      |
| 45     | 58      |



| Degree | Candela |
|--------|---------|
| 0      | 7,000   |
| 5      | 6,095   |
| 15     | 1,658   |
| 25     | 408     |
| 35     | 137     |
| 45     | 64      |



| Degree | Candela |
|--------|---------|
| 0      | 2,900   |
| 5      | 2,845   |
| 15     | 1,813   |
| 25     | 929     |
| 35     | 300     |
| 45     | 78      |

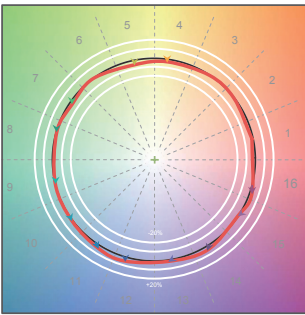
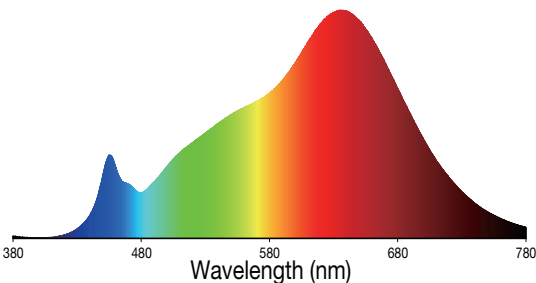
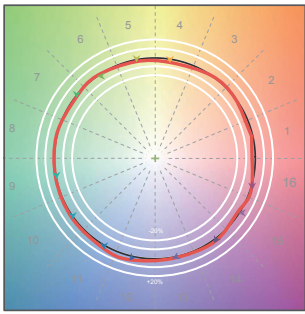
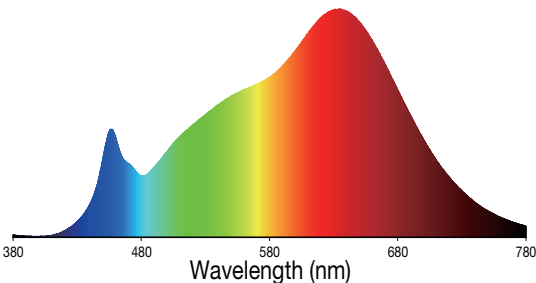
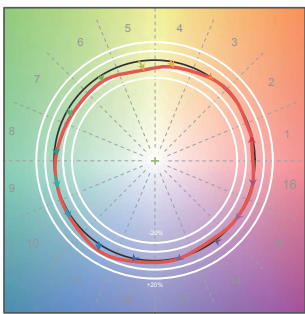
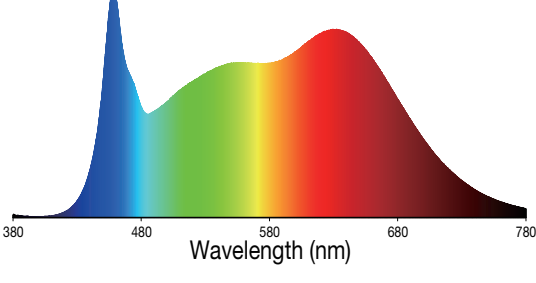
For other CCT use the following multiplier: 2700K .98, 4000K 1.02



GREENCREATIVE

# REFINE PAR FAMILY

## COLOR ACCURACY & SPECTRAL POWER DISTRIBUTION

| CCT   | COLOR ACCURACY                                                                                        | SPECTRAL POWER DISTRIBUTION                                                          |
|-------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2700K | <br>Rr: 95, Rg: 100  |    |
| 3000K | <br>Rr: 94, Rg: 99  |   |
| 4000K | <br>Rr: 90, Rg: 97 |  |

Rr: TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rr is a more accurate version of the CRI Ra. Rr is 100 for natural light.

Rg: TM-30 metric measuring color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.