

# PAR20 10.8W



**OUTPUT RANGE: VIVID SERIES** 500 - 540 lumen

**BEAM ANGLE RANGE** 10°, 25°, 36°

**COLOR TEMPERATURE RANGE** 2700K, 3000K

**APPLICATION** Halogen replacement for indoor & outdoor applications



230V



E27



DIM



## POINT SOURCE OPTICS

Exceptional beam control enables unique 10° narrow spot and smooth uniform beams

Single light source, single crisp shadow

## VP<sub>3</sub> VIVID COLOR AND VP<sub>3</sub> NATURAL WHITE

VIVID series provides accurate color rendering across the visible spectrum from 400nm to 700nm, with CRI/95, R9/95, Rf/90, Rg/100

Whiteness rendering matches or exceeds that of halogen and incandescent sources at 2700K and 3000K

## ENERGY EFFICIENCY AND LONG LIFE

85% more energy efficient than standard halogen lamps

Typical payback of one year or less

Rated lifetime to L70: 35,000hrs

Warranty: 3yrs or 25,000hrs whichever comes first

Detailed warranty information available at [soraa.com/resources/legal](http://soraa.com/resources/legal)

## CERTIFICATIONS

RoHS, CE



**RoHS CE**

## HIGHLY COMPATIBLE

Narrow spot compatible with Soraa SNAP System accessories

Thermally and geometrically compatible with standard fixtures and suitable for damp locations

Works with trailing edge and leading edge phase cut dimmers (see [www.soraa.com/resources](http://www.soraa.com/resources))

## INTENDED USE AND APPLICATIONS

Intended for use in PAR20 compatible recessed downlights, track lighting and other indoor and outdoor applications

Soraa lamps are designed to safely turn down in any thermal environment not conducive to minimum airflow or proper ventilation

## GENERAL SPECIFICATIONS

### Form Factor

Width: 64mm (2.52")

Height: 89mm (3.50")

Weight: 160g

### Operating Temperature

Minimum: -40°C (ambient)

Typical: 70°C - 80°C (base)

Maximum: 90°C (base)

### Electrical

Wattage: 10.8W

Power factor: 0.80

Voltage: 230V +/- 23V

Frequency: 50/60Hz

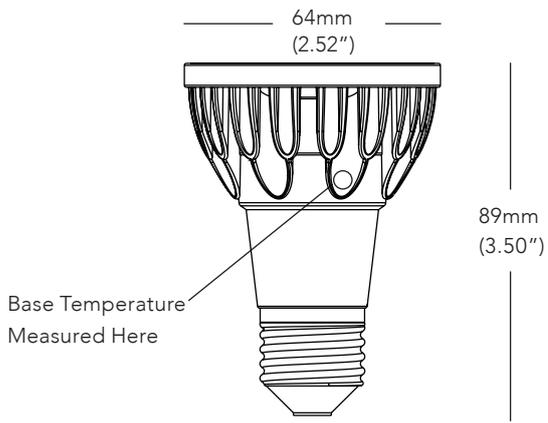
### Dimming and Flicker

Dimmable to <20%

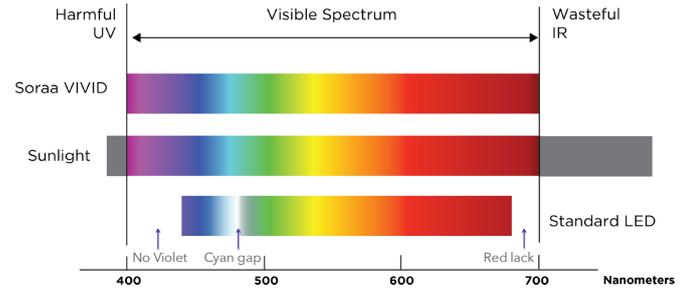
Flicker Index: <0.10

Percent Flicker: 50%

## DIMENSIONS

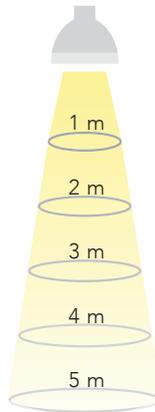


## COLOR RENDERING



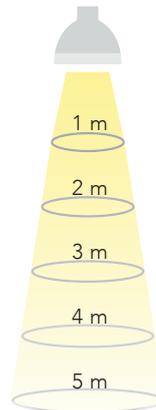
## 10 DEGREE BEAM

| Beam Dia at 50% Intensity (m) | Field Dia at 10% Intensity (m) | Lux (% of Intensity) |
|-------------------------------|--------------------------------|----------------------|
| 0.2                           | 0.4                            | 100%                 |
| 0.3                           | 0.7                            | 25%                  |
| 0.5                           | 1.1                            | 11%                  |
| 0.7                           | 1.4                            | 6%                   |
| 0.9                           | 1.8                            | 4%                   |



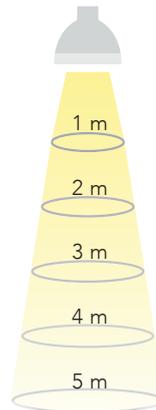
## 25 DEGREE BEAM

| Beam Dia at 50% Intensity (m) | Field Dia at 10% Intensity (m) | Lux (% of Intensity) |
|-------------------------------|--------------------------------|----------------------|
| 0.4                           | 0.7                            | 100%                 |
| 0.9                           | 1.5                            | 25%                  |
| 1.3                           | 2.2                            | 11%                  |
| 1.8                           | 2.9                            | 6%                   |
| 2.2                           | 3.6                            | 4%                   |



## 36 DEGREE BEAM

| Beam Dia at 50% Intensity (m) | Field Dia at 10% Intensity (m) | Lux (% of Intensity) |
|-------------------------------|--------------------------------|----------------------|
| 0.6                           | 1.2                            | 100%                 |
| 1.3                           | 2.3                            | 25%                  |
| 1.9                           | 3.5                            | 11%                  |
| 2.6                           | 4.6                            | 6%                   |
| 3.2                           | 5.8                            | 4%                   |

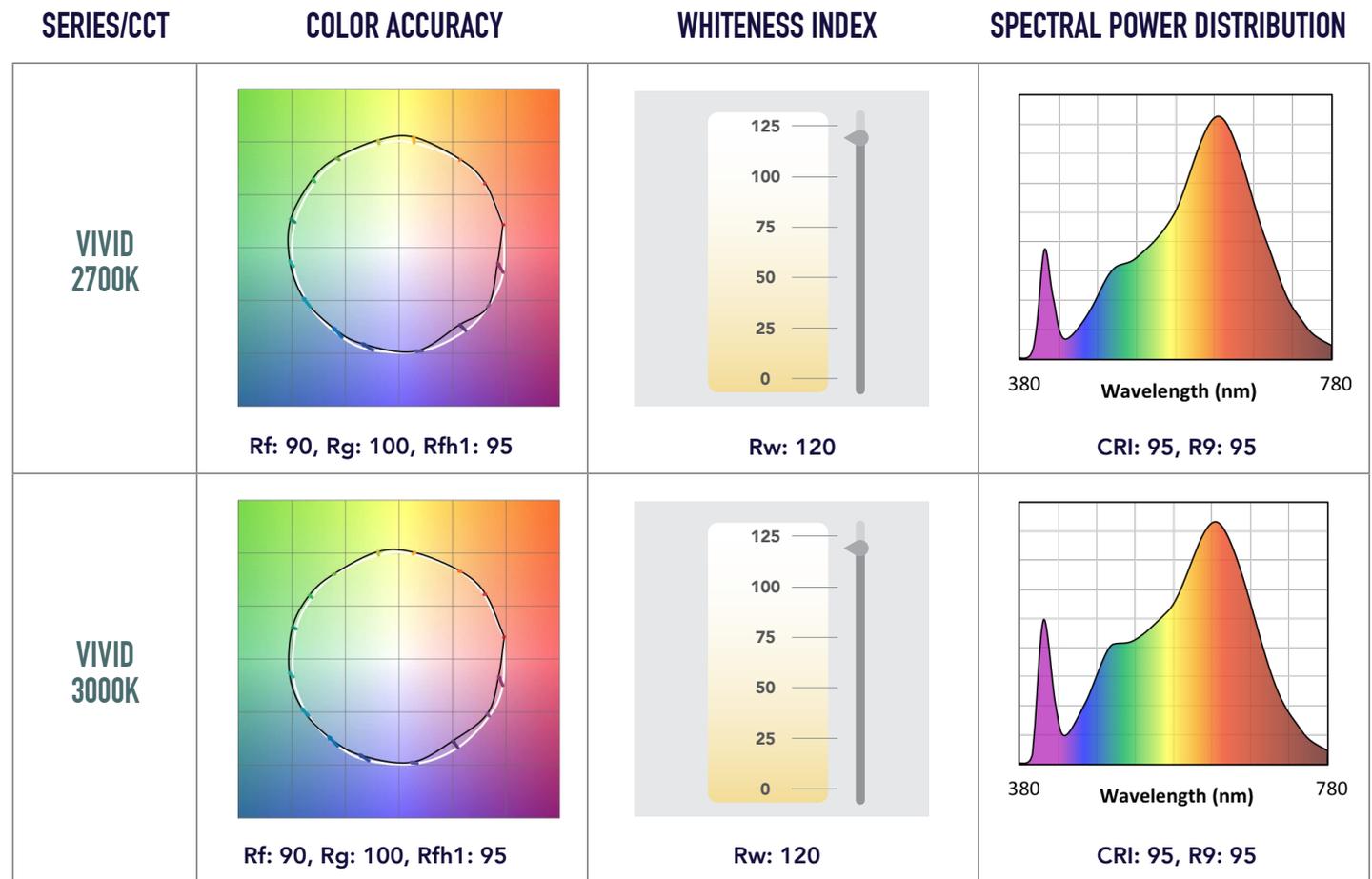


Note: Lux may be calculated by multiplying the peak Intensity of the desired model number by the percentage in the tables above

# SPECIFICATIONS BY MODEL NUMBER\* SORAA LED PAR20 10.8W

| Model #                | Product Code | CCT (K) | Beam Angle | Field Angle | Peak Intensity | Total Flux (Lm) | Efficacy (Lm/W) | 90° Lumens | McA | EI | SNAP |
|------------------------|--------------|---------|------------|-------------|----------------|-----------------|-----------------|------------|-----|----|------|
| <b>VIVID SERIES</b>    |              |         |            |             |                |                 |                 |            |     |    |      |
| SP20W-11-10D-927-03-S3 | 02679        | 2700    | 10         | 20          | 8000           | 500             | 46              | 465        | 3   | A  | YES  |
| SP20W-11-25D-927-03-S3 | 02681        | 2700    | 25         | 40          | 2640           | 500             | 46              | 480        | 3   | A  | -    |
| SP20W-11-36D-927-03-S3 | 02683        | 2700    | 36         | 60          | 1240           | 500             | 46              | 480        | 3   | A  | -    |
| SP20W-11-10D-930-03-S3 | 02695        | 3000    | 10         | 20          | 8640           | 540             | 50              | 500        | 3   | A  | YES  |
| SP20W-11-25D-930-03-S3 | 02697        | 3000    | 25         | 40          | 2860           | 540             | 50              | 515        | 3   | A  | -    |
| SP20W-11-36D-930-03-S3 | 02699        | 3000    | 36         | 60          | 1340           | 540             | 50              | 515        | 3   | A  | -    |

**CCT:** Correlated Color Temperature **McA:** White Point Accuracy in McA step **SNAP:** SORAA SNAP System Compatible **EI:** Energy Efficiency Index  
 \*Specifications are at stable warm operating conditions (25°C ambient)



**Rf:** TM-30 metric measuring color fidelity (whether colors are similar to those under natural light). Rf is a more accurate version of the CRI Ra. Rf 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.  
**Rfh1:** TM-30 metric measuring color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.  
**Rw:** Soraa-developed metric to measure white fidelity. Rw measures the magnitude of excitation of whitening agents within whites. Rw is about 100 for natural light.