

## SunLight2 GU10 LED BULBS

High CRI & R9, Dim to Warm

**SunLight2**<sup>®</sup>



|                                 |                |
|---------------------------------|----------------|
| Input Voltage                   | 120V AC        |
| Wattage                         | 8W             |
| Nominal Lumens                  | ≈ 550 lm       |
| CCT                             | 3000K - 1800K  |
| CRI, R9                         | 97+, 94+       |
| Color Fidelity (Rf), Gamut (Rg) | 96, 103        |
| Percent Flicker                 | <1%            |
| Dimming                         | Phase Dimmable |
| Dimming Range                   | 100% - <0.1%   |
| Beam Angles                     | 24°, 36°, 60°  |



**RoHS**



SunLight2 is an Architectural-Grade LED bulb optimized for an eye healthy lighting experience with low blue emission and no flicker. Its high CRI, full spectrum light provides exceptional color accuracy using patented LED technology. Designed with Dim-to-Warm capability, SunLight2 gradually changes from vibrant daylight to a warm sunset ambiance using standard dimmers.

### FEATURES

- Superior color accuracy, pure white index and highest R values.
- Low blue emission, designed to provide superior color accuracy and vision friendly light source.
- Providing an ideal end user health focused light source.
- More energy efficient than halogen lamps.
- Suitable for use in both open and fully enclosed fixtures.
- Works with trailing edge and leading edge phase cut dimmers.
- Suitable for damp locations

### APPLICATIONS

- Hotels & Hospitality
- Galleries & Museums
- High-End Retail
- Architectural track lighting, pendants, pendants, downlights, and other indoor and outdoor applications.

### ELECTRICAL SPECIFICATIONS

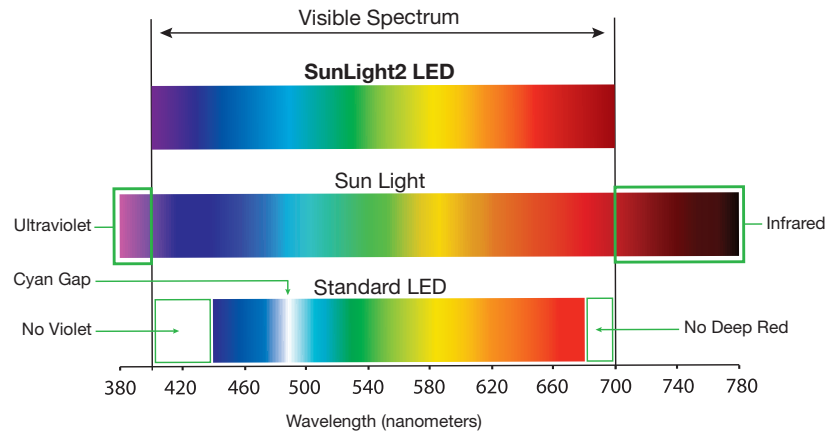
| Model Number     | Wattage | Input Voltage | CCT (dim to warm)   | Lumens  | Beam Angle | Case Finishes                |
|------------------|---------|---------------|---------------------|---------|------------|------------------------------|
| GU10A8W3018KWD24 | 8W      | 120V AC       | 3000K Dims to 1800K | ≈550 lm | 24°        | Silver, Black, White, Custom |
| GU10A8W3018KWD36 |         |               |                     |         | 36°        |                              |
| GU10A8W3018KWD60 |         |               |                     |         | 60°        |                              |

## Full Spectrum Light Output

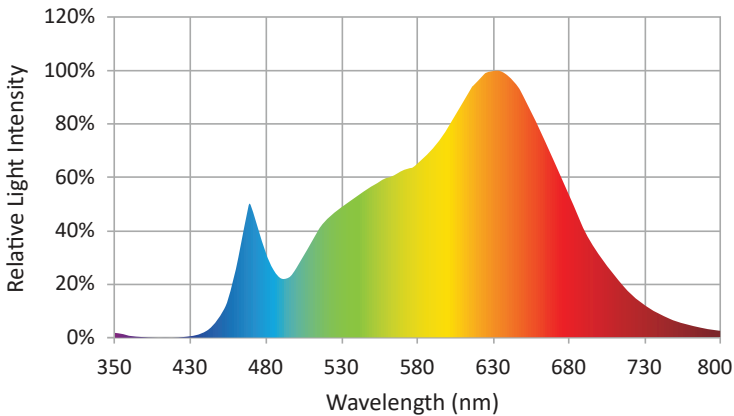
The diagram on the right compares the spectrum produced by SunLight2, natural sun light, and standard LEDs.

SunLight2 has full spectrum output, much like natural sun, but does not extend into ultraviolet nor infrared parts of the non-visible spectrum. This means SunLight2 won't fade colors or cause eye damage, and won't waste energy producing heat instead of light.

Standard LEDs do not produce light in the violet range, nor the deep red range, and show a dropoff or gap in cyan tones. This results in poor color rendering, with hue shifting and under / over saturation compared to reference swatches.

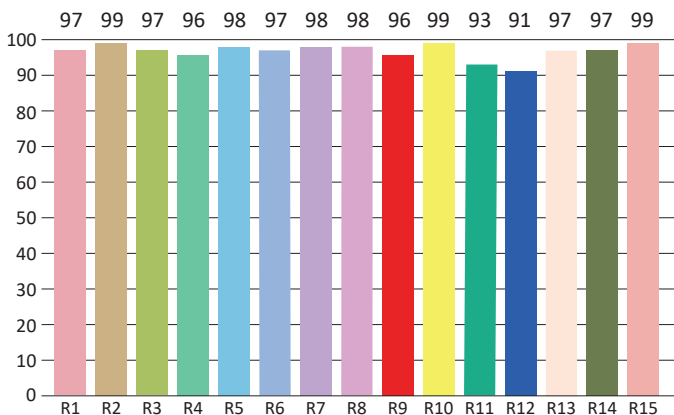


## Spectroradiometric Characteristics



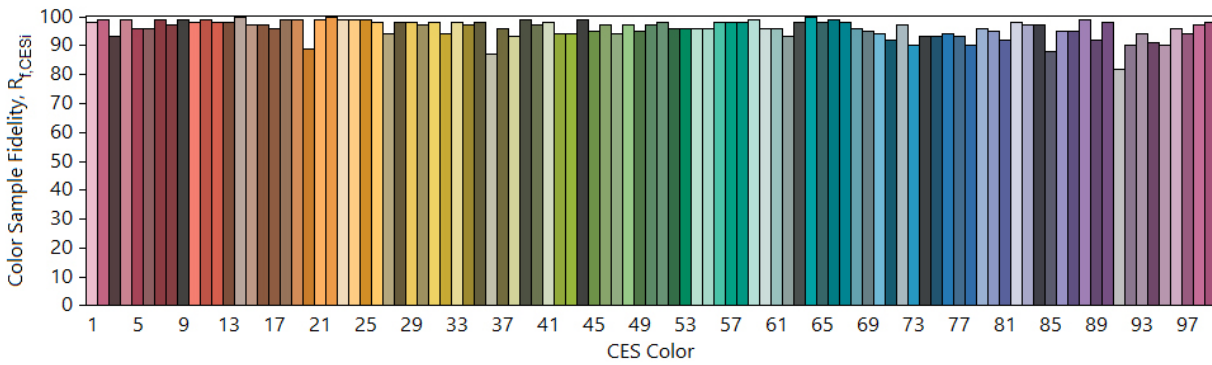
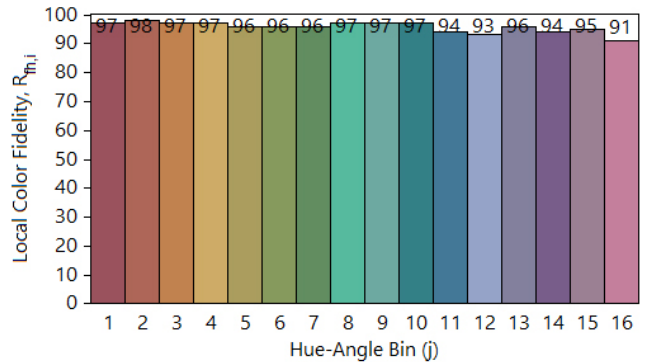
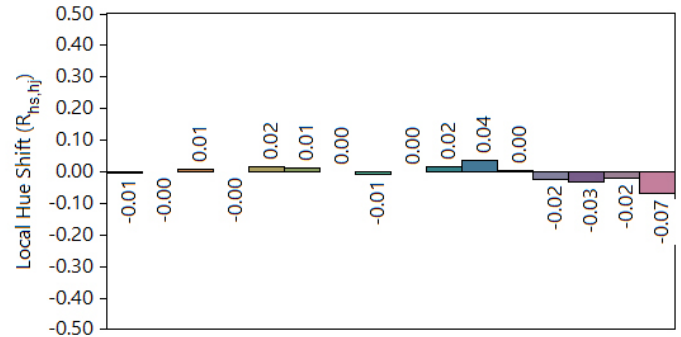
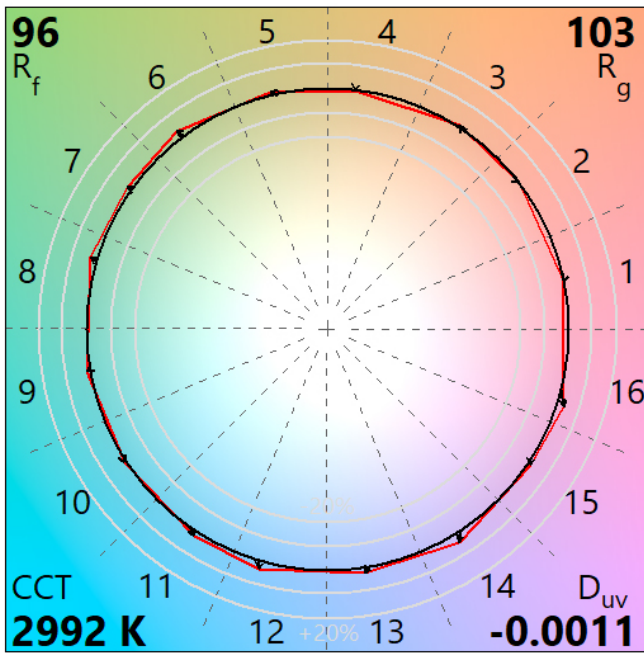
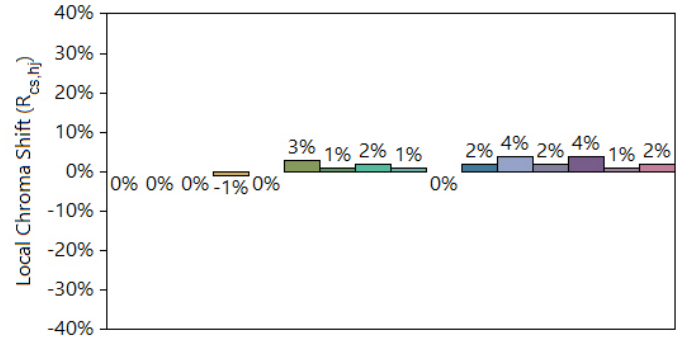
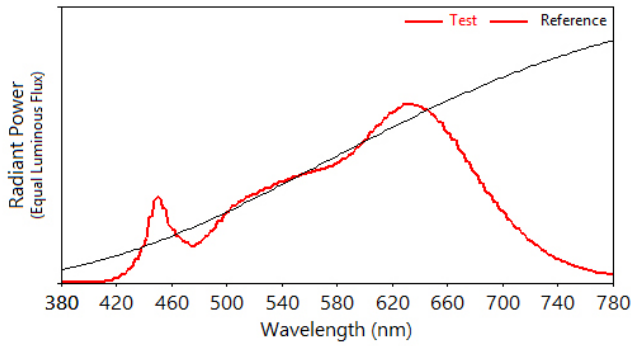
Luminous Flux: 566.73 lm  
 Radiant Flux: 2088 mW  
 Efficacy: 66.7 lm/W  
 Nominal CCT: LED\_3000K x0=0.4338 y0=0.4030  
 Chromaticity Coordinates: x=0.4334 y=0.3962 u'=0.2517 v'=0.5177  
 Chromaticity Difference: +0.00269 Duv  
 CCT: 2995K

## CRI Test Results



Color Rendering Index (CRI): 97.3  
 Dominant Wavelength: 582.0 nm(E)  
 Peak Wavelength: 635nm  
 Color Fidelity Index: Rf=94  
 Gamut Index: Rg=103  
 Color Purity: 0.4934  
 Color Ratio: Kr=43.5% Kg=47.7% Kb=8.8%  
 Bandwidth: 172.3 nm  
 Photosynthetically Active Radiation (PAR): 1.87W  
 Photosynthetic Photon Flux (PPF): 9.28 μmol/s

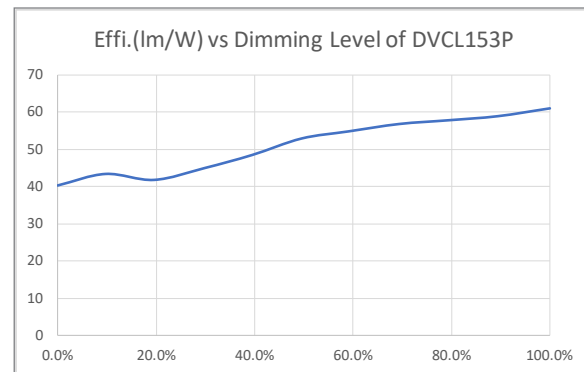
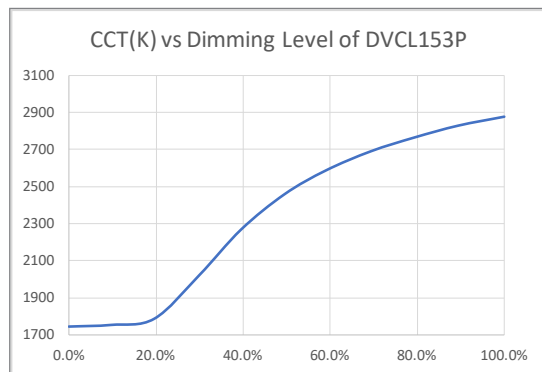
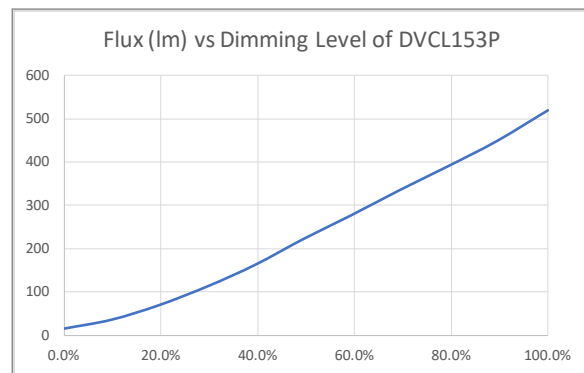
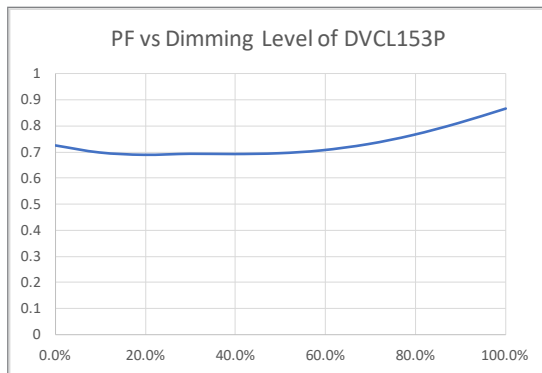
**IES TM-30-18 Report**

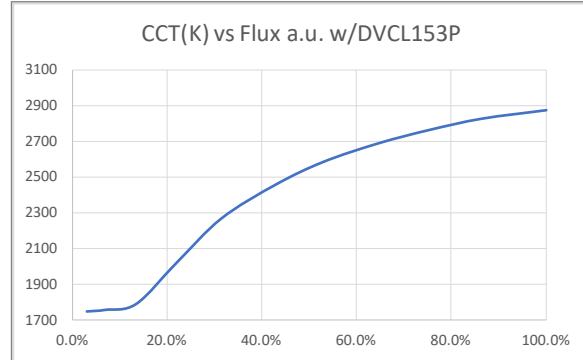
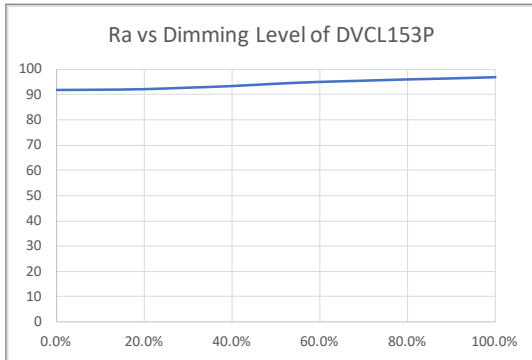


## Dimming Characteristics

GU10A8W3018KWD24S with DVCL153P at 120V 60Hz Input

| Dimming | U(V)   | I(A)  | P(W)  | PF    | Flux(lm) | (lm/W) | CCT(K) | Ra   | R9 | Flux a.u. |
|---------|--------|-------|-------|-------|----------|--------|--------|------|----|-----------|
| 100.0%  | 113.76 | 0.086 | 8.52  | 0.866 | 518.91   | 60.9   | 2875   | 96.8 | 95 | 100.0%    |
| 89.4%   | 108.73 | 0.086 | 7.62  | 0.81  | 447.94   | 58.8   | 2827   | 96.3 | 95 | 86.3%     |
| 79.3%   | 101.95 | 0.087 | 6.76  | 0.764 | 389.89   | 57.7   | 2763   | 95.9 | 94 | 75.1%     |
| 69.4%   | 93.97  | 0.086 | 5.91  | 0.729 | 334.94   | 56.7   | 2689   | 95.4 | 94 | 64.5%     |
| 59.0%   | 84.25  | 0.084 | 5.03  | 0.705 | 275.18   | 54.7   | 2586   | 94.9 | 94 | 53.0%     |
| 49.5%   | 74.47  | 0.081 | 4.22  | 0.694 | 222.68   | 52.8   | 2458   | 94.2 | 92 | 42.9%     |
| 39.6%   | 63.56  | 0.077 | 3.37  | 0.691 | 163.12   | 48.4   | 2268   | 93.3 | 87 | 31.4%     |
| 29.9%   | 52.56  | 0.07  | 2.55  | 0.692 | 114.44   | 44.9   | 2022   | 92.7 | 76 | 22.1%     |
| 19.6%   | 40.46  | 0.06  | 1.67  | 0.688 | 69.65    | 41.7   | 1788   | 92.1 | 61 | 13.4%     |
| 9.7%    | 26.46  | 0.045 | 0.83  | 0.697 | 35.97    | 43.3   | 1755   | 91.9 | 61 | 6.9%      |
| 0.0%    | 16.62  | 0.032 | 0.389 | 0.724 | 15.62    | 40.2   | 1746   | 91.8 | 61 | 3.0%      |

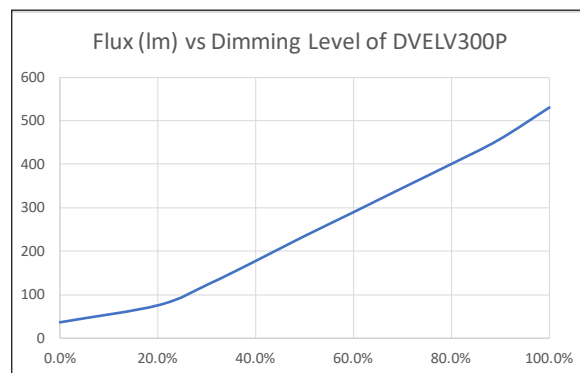
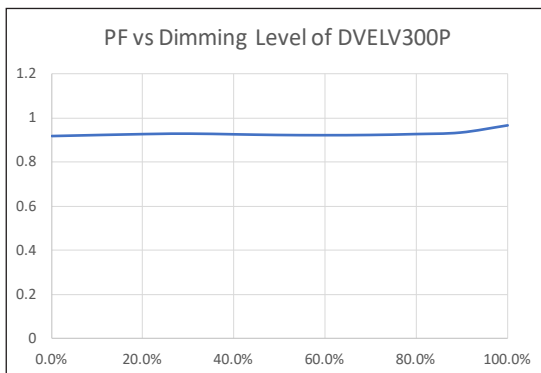


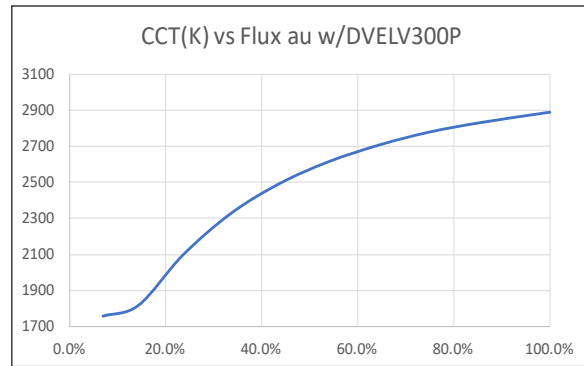
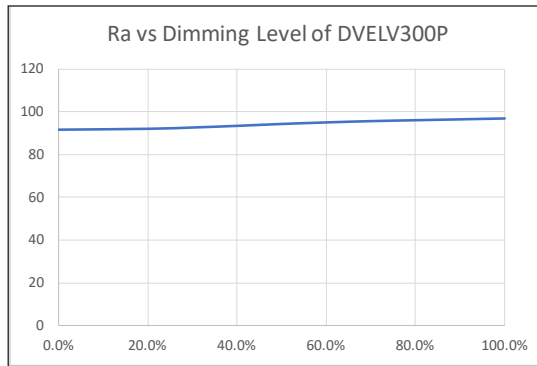
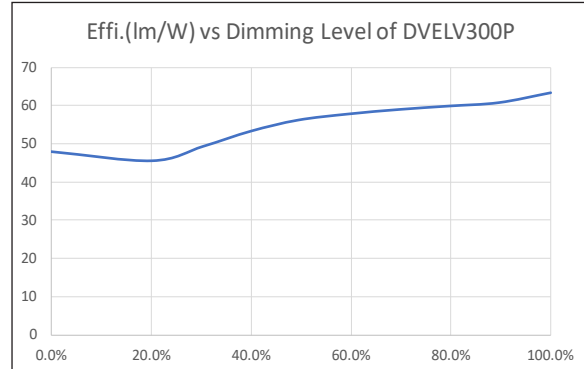
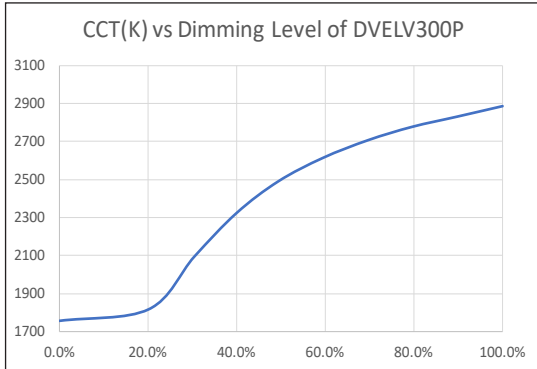


### Dimming Characteristics

GU10A8W3018KWD24S with DVELV300P at 120V 60Hz Input

| Dimming | U(V)   | I(A)  | P(W) | PF    | Flux(lm) | (lm/W) | CCT(K) | Ra   | R9 | Flux a.u. |
|---------|--------|-------|------|-------|----------|--------|--------|------|----|-----------|
| 100.0%  | 120.04 | 0.072 | 8.38 | 0.967 | 531.41   | 63.4   | 2888   | 96.8 | 95 | 100.0%    |
| 89.6%   | 107.83 | 0.074 | 7.51 | 0.934 | 456.83   | 60.8   | 2832   | 96.4 | 95 | 86.0%     |
| 79.6%   | 101.03 | 0.071 | 6.67 | 0.927 | 399.4    | 59.9   | 2779   | 96   | 95 | 75.2%     |
| 69.7%   | 93.04  | 0.068 | 5.84 | 0.923 | 344.72   | 59     | 2709   | 95.6 | 95 | 64.9%     |
| 59.4%   | 83.61  | 0.064 | 4.98 | 0.922 | 287.66   | 57.8   | 2615   | 95   | 94 | 54.1%     |
| 49.4%   | 73.61  | 0.061 | 4.14 | 0.923 | 232.53   | 56.2   | 2492   | 94.3 | 92 | 43.8%     |
| 40.0%   | 63.55  | 0.057 | 3.35 | 0.926 | 178.44   | 53.3   | 2325   | 93.5 | 88 | 33.6%     |
| 30.4%   | 53.03  | 0.052 | 2.55 | 0.929 | 125.64   | 49.3   | 2095   | 92.8 | 79 | 23.6%     |
| 20.2%   | 41.13  | 0.044 | 1.69 | 0.927 | 76.91    | 45.5   | 1818   | 92.2 | 63 | 14.5%     |
| 0.0%    | 26.1   | 0.032 | 0.78 | 0.918 | 37.4     | 47.9   | 1757   | 91.8 | 60 | 7.0%      |





### Mechanical Specs

