

# Photometric & Chromaticity Report

Celeb Ikon 6: Standard Optics - 5600K

Product Part Number: CE1.00100

## Report Summary

### Measurements:

Fixture Output: 44472 lm  
Fixture Peak: 16516 cd  
Fixture Efficacy: 82 lm/W  
Intensity @ 5m: 659 lux  
Color Temperature: 5618 K  
CRI: 98.2      CRI R9 Value: 90.7  
CQS: 98.2  
TLCI: 99  
TM-30 Rf: 96.6  
TM-30 Rg: 100.2  
Beam Angle (50%): 107.3°  
Field Angle (10%): 158.7°  
Cutoff Angle (3%): 174.1°

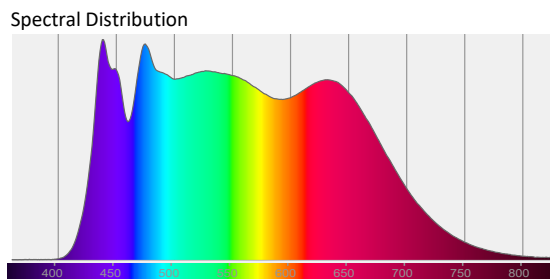
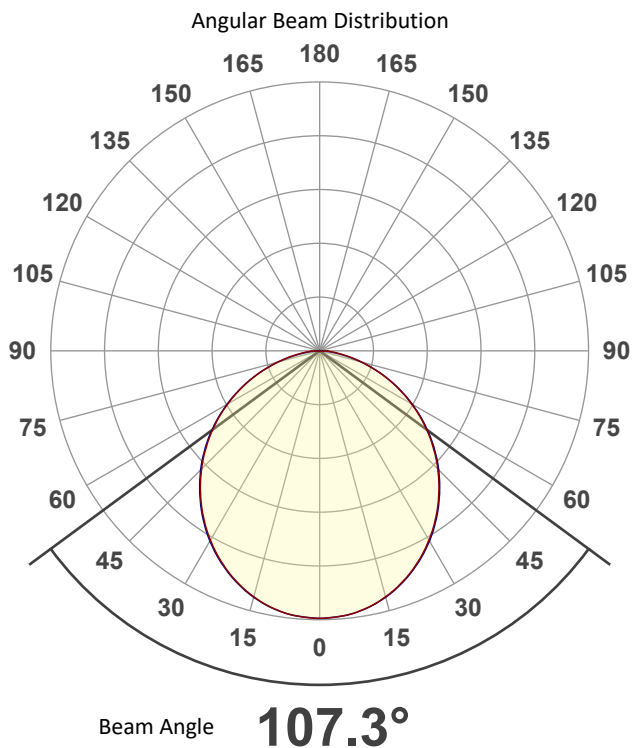
### Conditions:

AC Supply: 107 V, 60.1 Hz  
Power: 545.5 W  
Current: 5.09 A  
Power Factor: 0.99



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie FL on 8/26/2025 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.330

Y: 0.347



Light Quality

CRI: 98.2

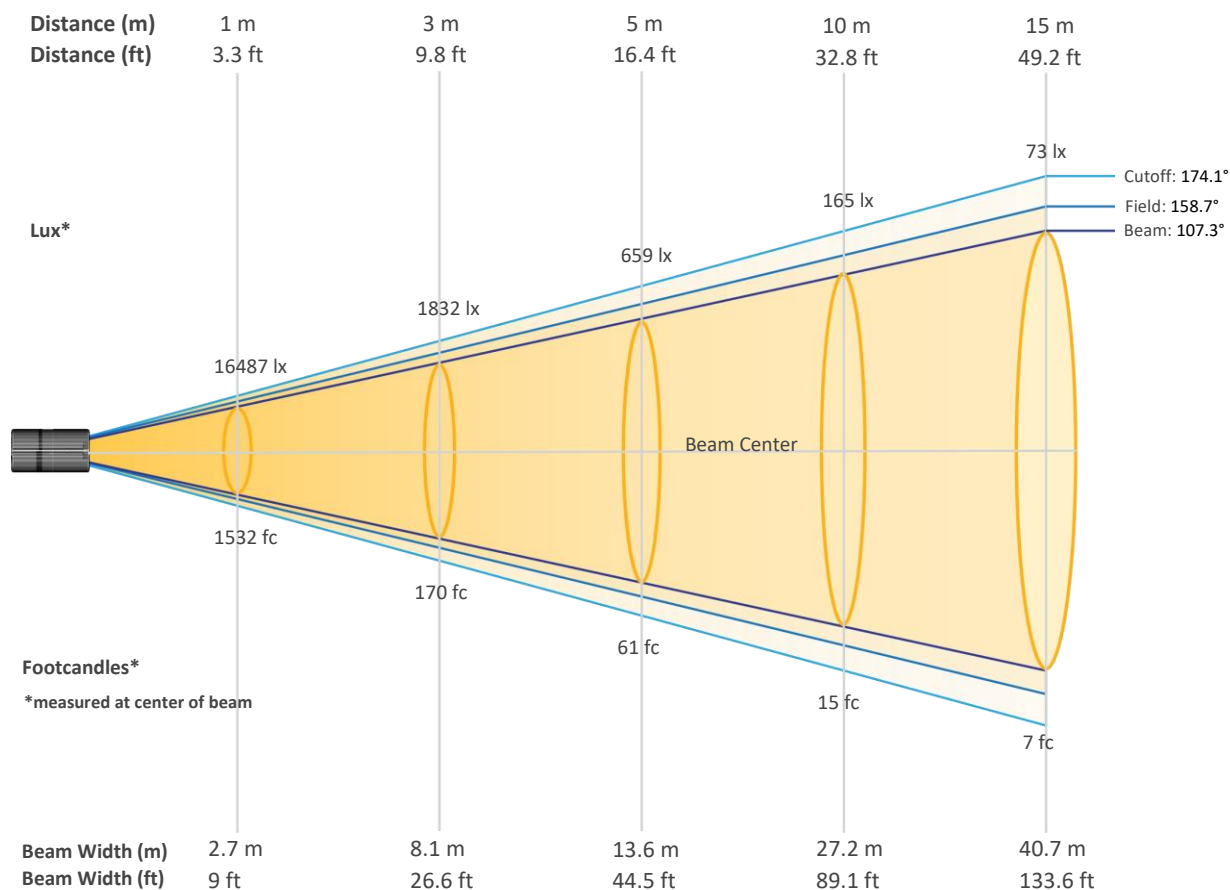
Color Temperature

5618 K

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## Beam Details

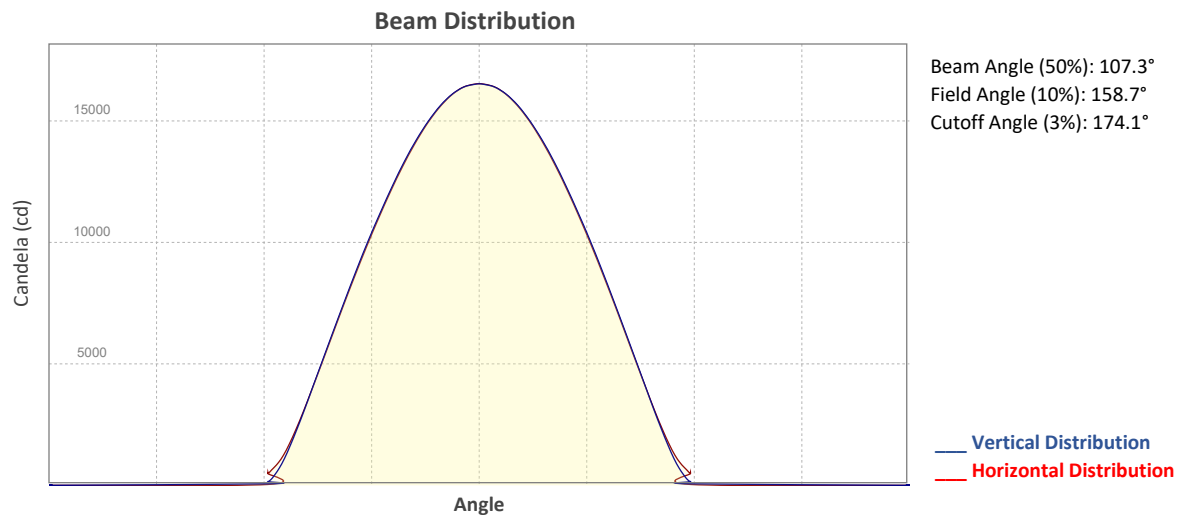


## Beam Intensities from 1-20m (3.3-65.6ft)

|          |        |        |        |        |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Distance | 1m     | 2m     | 3m     | 4m     | 5m     | 6m     | 7m     | 8m     | 9m     | 10m    |
| Lux      | 16487  | 4122   | 1832   | 1030   | 659    | 458    | 336    | 258    | 204    | 165    |
| Distance | 11m    | 12m    | 13m    | 14m    | 15m    | 16m    | 17m    | 18m    | 19m    | 20m    |
| Lux      | 136    | 114    | 98     | 84     | 73     | 64     | 57     | 51     | 46     | 41     |
| Distance | 3.3ft  | 6.6ft  | 9.8ft  | 13.1ft | 16.4ft | 19.7ft | 23ft   | 26.2ft | 29.5ft | 32.8ft |
| FC       | 1532   | 383    | 170    | 96     | 61     | 43     | 31     | 24     | 19     | 15     |
| Distance | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| FC       | 13     | 11     | 9      | 8      | 7      | 6      | 5      | 5      | 4      | 4      |

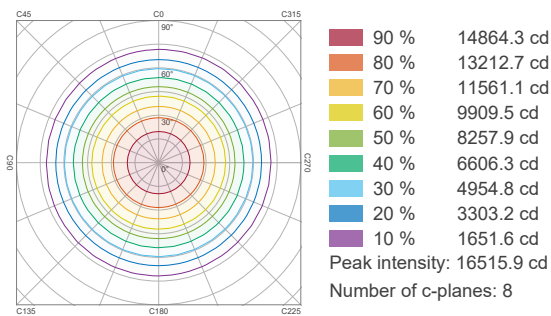
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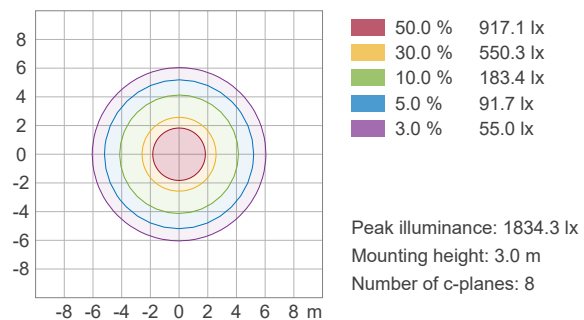


## ISO Diagrams

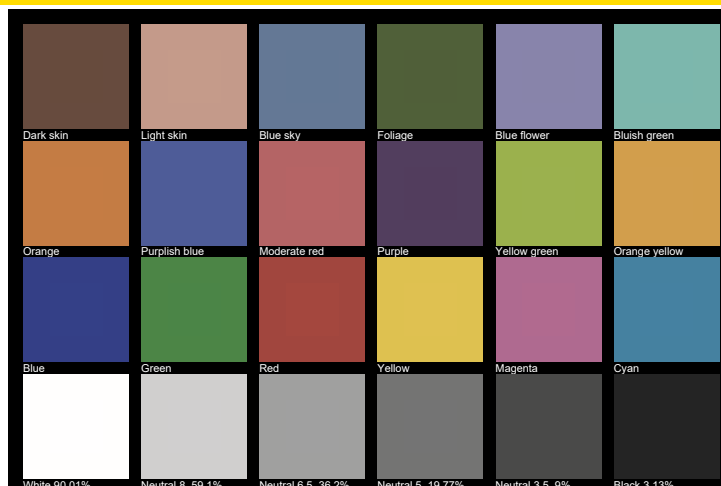
ISO Candela Diagram



ISO Lux Diagram



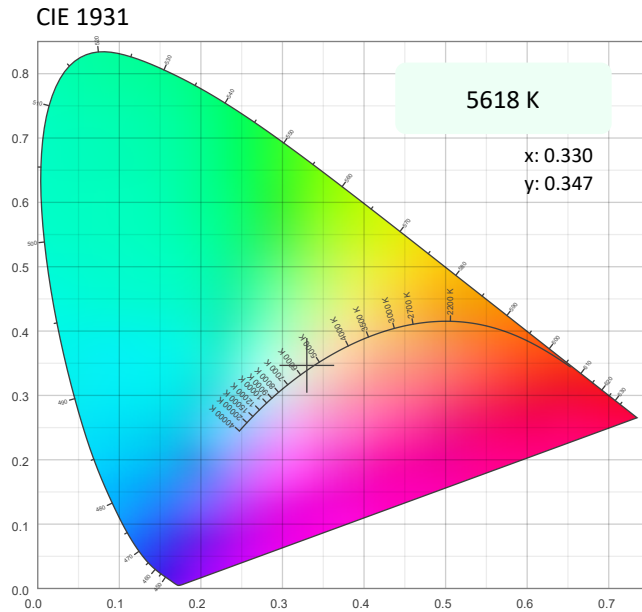
## TLCI Color Checker



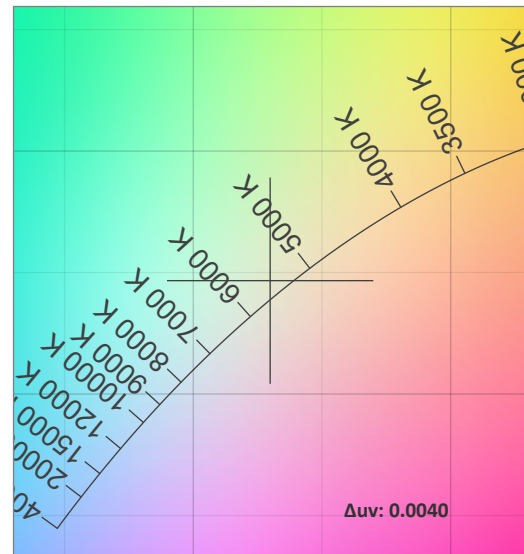
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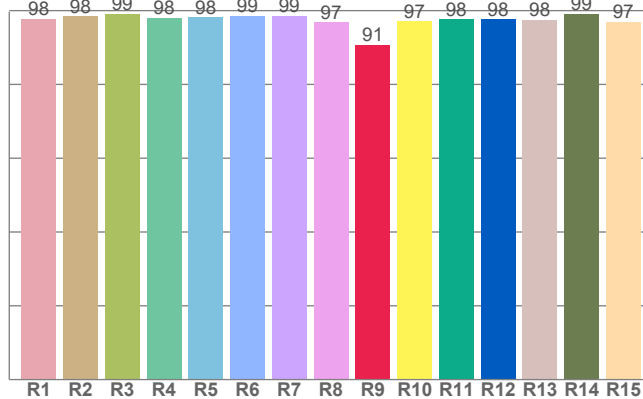
## Chromaticity



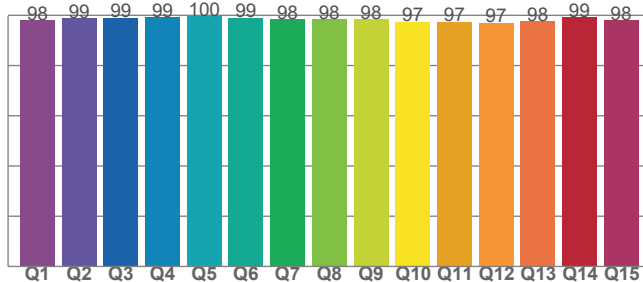
CIE 1931 - Zoom



CRI: 98.2 (R1-R8)



CQS: 98.2



Color Parameters

| Color Temperature | Color Coordinate CIE 1931 | Color Coordinate CIE 1931 |
|-------------------|---------------------------|---------------------------|
| CCT               | x                         | y                         |
| 5618 K            | 0.330                     | 0.347                     |

| Color Deviation from Black Body Curve | Color Coordinate CIE 1964 | Color Coordinate CIE 1964 |
|---------------------------------------|---------------------------|---------------------------|
| $\Delta uv$                           | u                         | v                         |
| 0.0040                                | 0.203                     | 0.320                     |

| Color Rendering Index | Red Component | Color Quality Scale |
|-----------------------|---------------|---------------------|
| CRI                   | CRI - R9      | CQS                 |
| 98.2                  | 90.7          | 98.2                |

| Television Lighting Consistency Index | Color Fidelity | Color Gamut |
|---------------------------------------|----------------|-------------|
| TLCI                                  | TM30 - Rf      | TM30 Rg     |
| 99                                    | 96.6           | 100.2       |

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## TM-30 Details

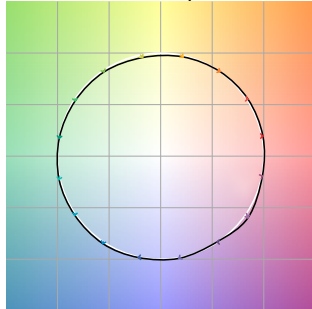
**Rf 96.6**

Fidelity Index  
(Rg)

**Rg 100.2**

Gammut Index (Rg)

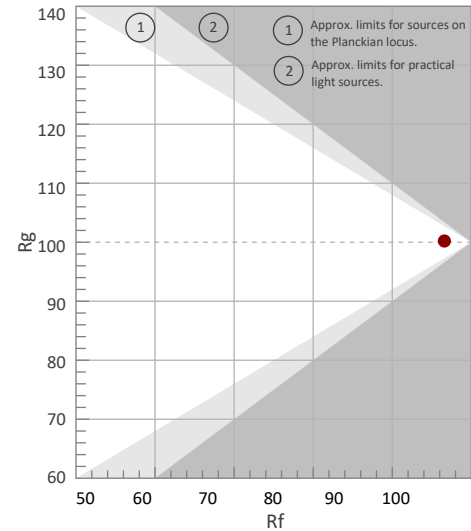
Color Vector Graphic



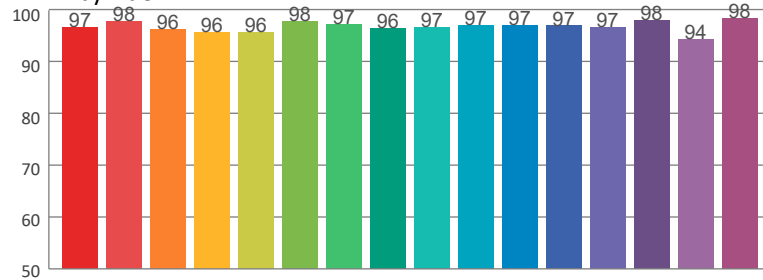
Color Distortion Graphic



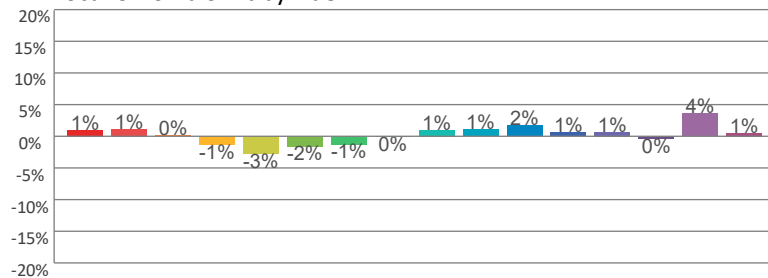
|         |                | Graphic shifts (%) |     |
|---------|----------------|--------------------|-----|
| Hue Bin | R <sub>f</sub> | Chroma             | Hue |
| 1       | 97             | 1%                 | 0%  |
| 2       | 98             | 1%                 | -1% |
| 3       | 96             | 0%                 | -2% |
| 4       | 96             | -1%                | -2% |
| 5       | 96             | -3%                | -1% |
| 6       | 98             | -2%                | 0%  |
| 7       | 97             | -1%                | 1%  |
| 8       | 96             | 0%                 | 2%  |
| 9       | 97             | 1%                 | 3%  |
| 10      | 97             | 1%                 | 1%  |
| 11      | 97             | 2%                 | 0%  |
| 12      | 97             | 1%                 | -2% |
| 13      | 97             | 1%                 | -2% |
| 14      | 98             | 0%                 | -1% |
| 15      | 94             | 4%                 | -3% |
| 16      | 98             | 1%                 | 0%  |



Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample

