

# Photometric & Chromaticity Report

Celeb Ikon 12: Standard Diffusion - 3200K

Product Part Number: CE1.00101

## Report Summary

### Measurements:

Fixture Output: 112117 lm  
Fixture Peak: 40788 cd  
Fixture Efficacy: 101 lm/W  
Intensity @ 5m: 1632 lux  
Color Temperature: 3208 K  
CRI: 94.2      CRI R9 Value: 84.3  
CQS: 95.0  
TLCI: 98  
TM-30 Rf: 96.2  
TM-30 Rg: 102.9  
Beam Angle (50%): 108.6°  
Field Angle (10%): 159.3°  
Cutoff Angle (3%): 173°

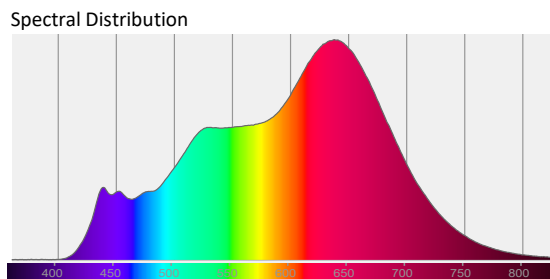
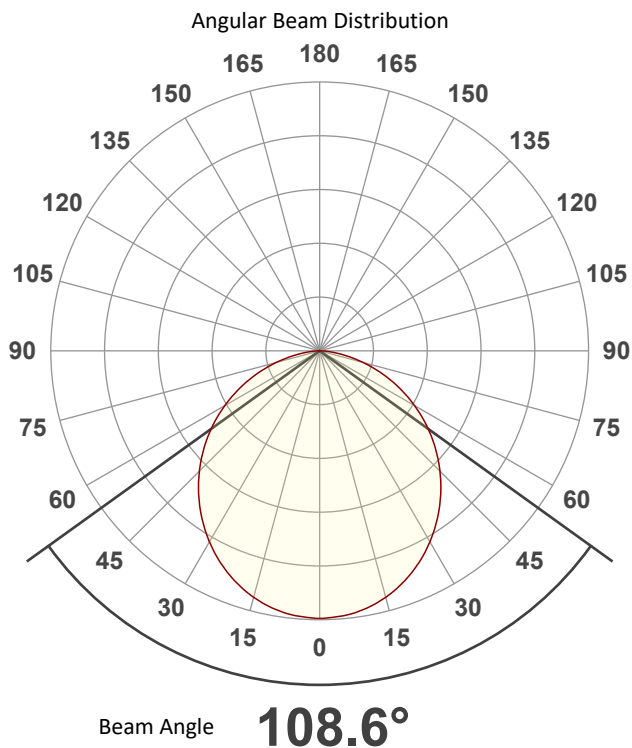


### Conditions:

AC Supply: 194 V, 60 Hz  
Power: 1122.01 W  
Current: 5.79 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 3/5/2026 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.424

Y: 0.400

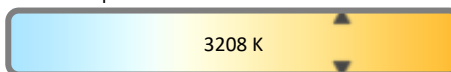


Light Quality

CRI: 94.2

Color Temperature

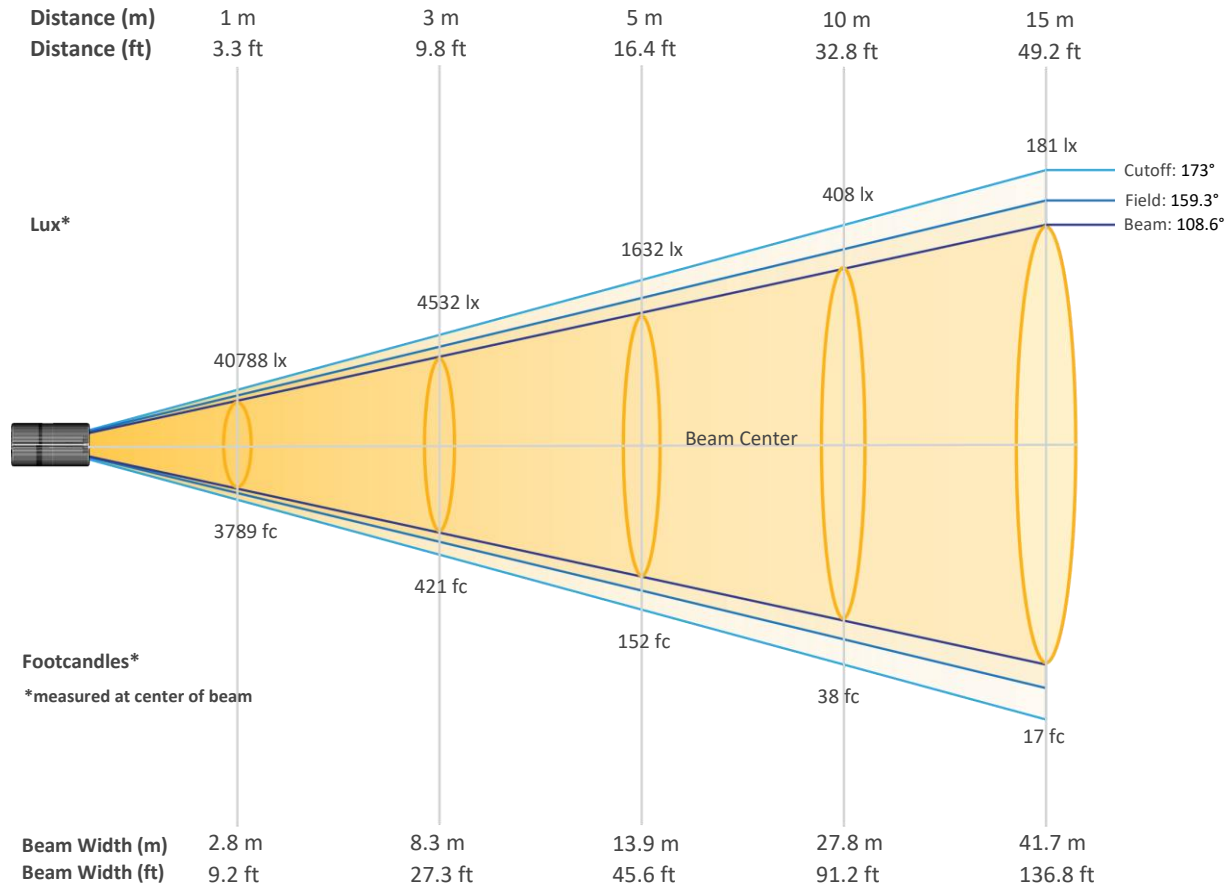
3208 K



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## Beam Details

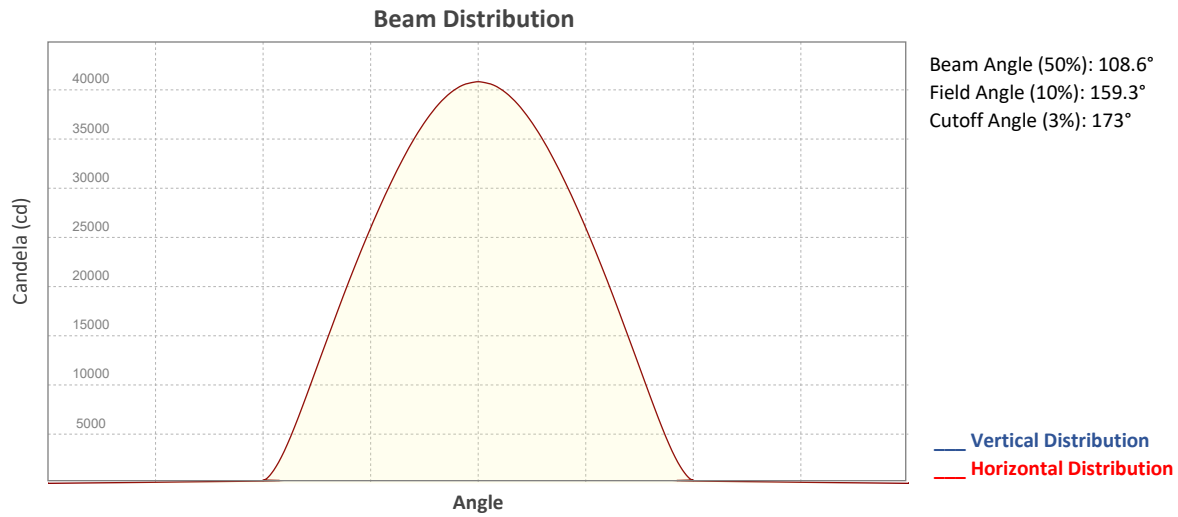


### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	40788	10197	4532	2549	1632	1133	832	637	504	408
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	337	283	241	208	181	159	141	126	113	102
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	3789	947	421	237	152	105	77	59	47	38
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	31	26	22	19	17	15	13	12	10	9

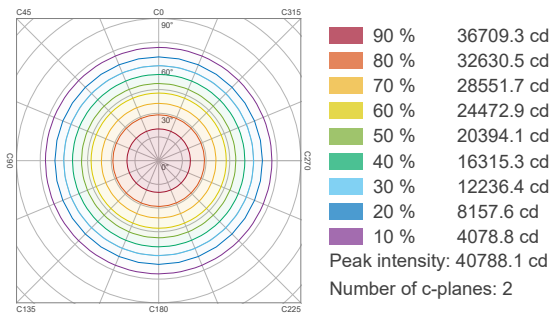
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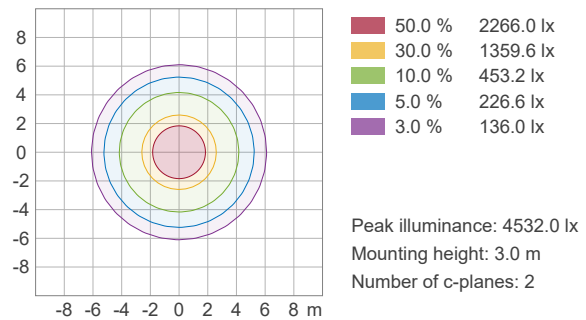


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram



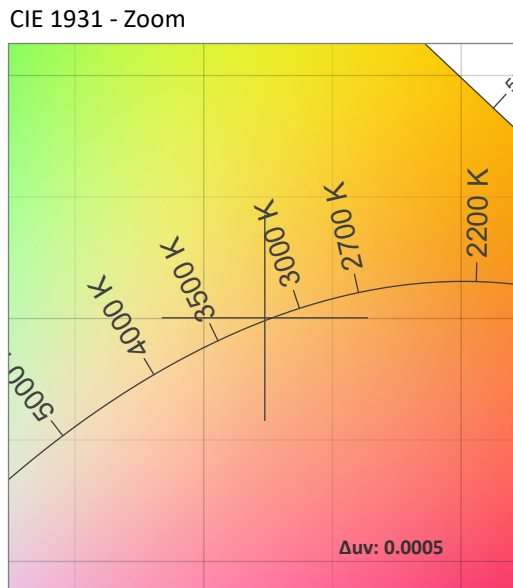
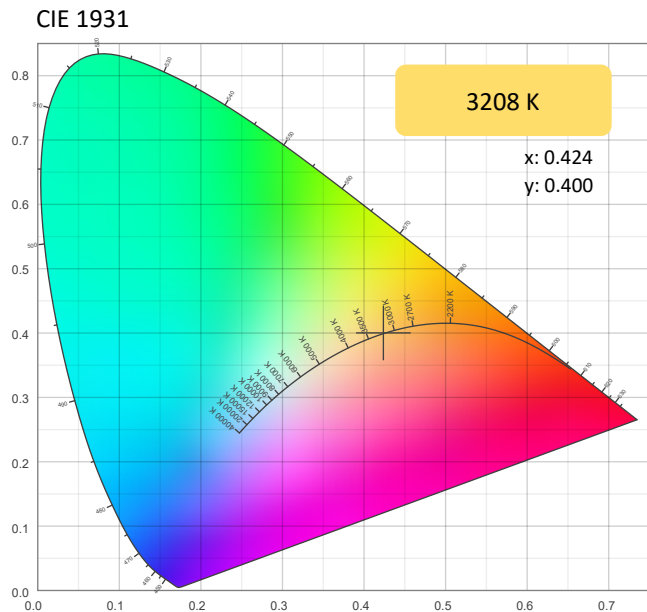
## TLCI Color Checker



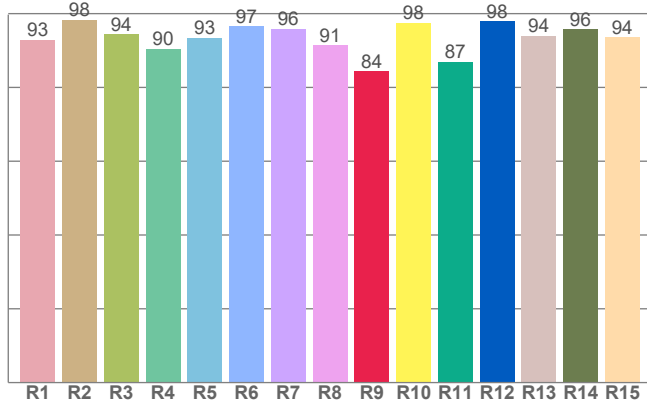
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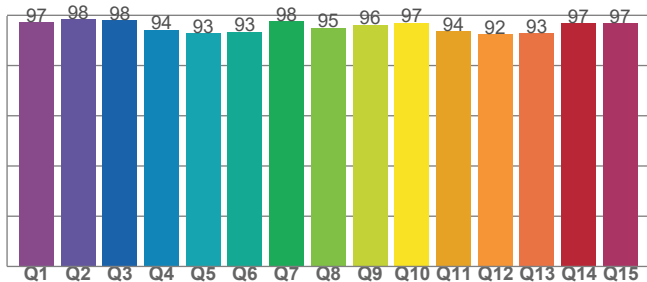
## Chromaticity



CRI: 94.2 (R1-R8)



CQS: 95.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3208 K	0.424	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	u	v
0.0005	0.244	0.345

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.2	84.3	95.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
98	96.2	102.9

# Photometric & Chromaticity Report

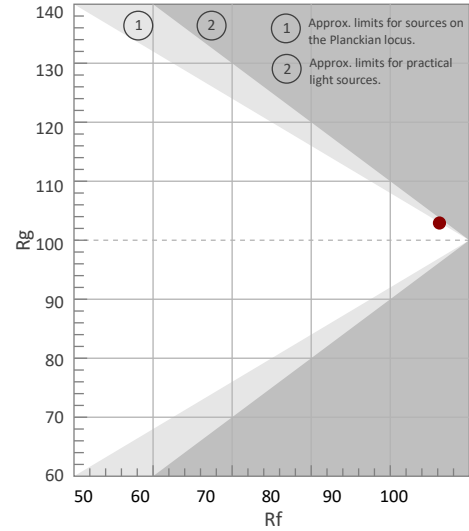
Celeb Ikon 12: Standard Diffusion - 3200K

## TM-30 Details

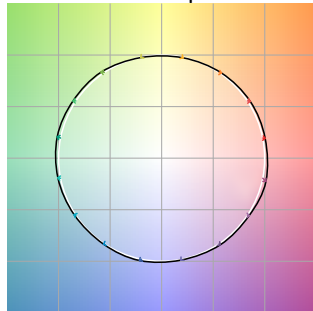
**Rf 96.2**  
Fidelity Index  
(Rg)

**Rg 102.9**  
Gammut Index (Rg)

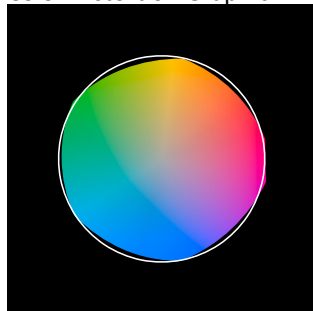
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	2%	-1%
2	95	2%	-2%
3	95	1%	-2%
4	97	-1%	-1%
5	98	0%	1%
6	95	2%	2%
7	95	2%	2%
8	94	3%	-1%
9	96	2%	-1%
10	96	1%	-2%
11	98	1%	-1%
12	96	2%	-2%
13	98	1%	-1%
14	97	1%	1%
15	96	2%	1%
16	95	4%	-2%



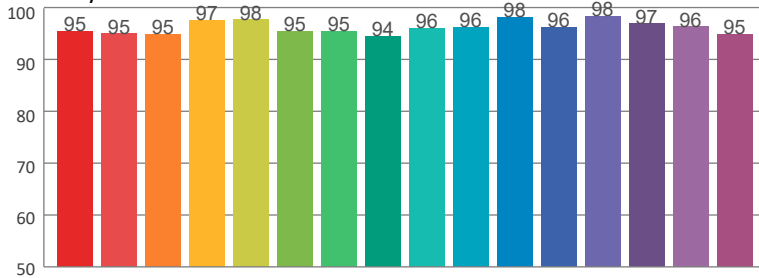
Color Vector Graphic



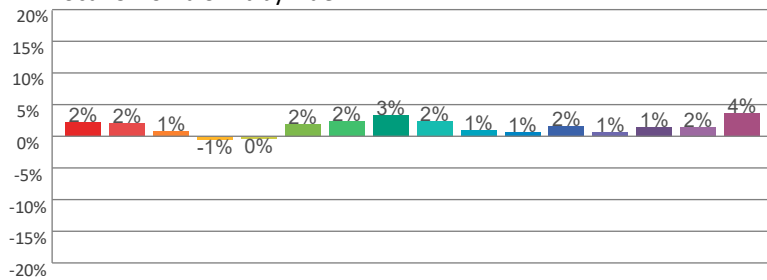
Color Distortion Graphic



R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample

