

# Photometric & Chromaticity Report

Celeb Ikon 12: Standard Diffusion - 5600K

Product Part Number: CE1.00101

## Report Summary

### Measurements:

Fixture Output: 126383 lm  
Fixture Peak: 45709 cd  
Fixture Efficacy: 114 lm/W  
Intensity @ 5m: 1828 lux  
Color Temperature: 5636 K  
CRI: 98.0      CRI R9 Value: 90.4  
CQS: 98.0  
TLCI: 99  
TM-30 Rf: 96.3  
TM-30 Rg: 100.1  
Beam Angle (50%): 109.1°  
Field Angle (10%): 159.5°  
Cutoff Angle (3%): 173.1°

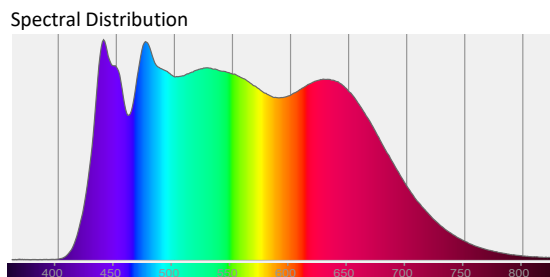
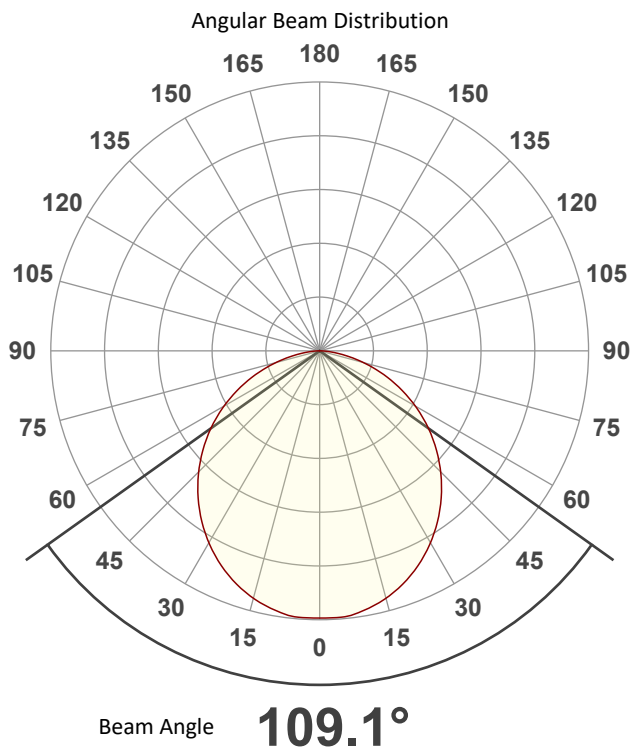


### Conditions:

AC Supply: 194 V, 60 Hz  
Power: 1125.62 W  
Current: 5.82 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: 0.329

Y: 0.346



Light Quality

CRI: 98.0

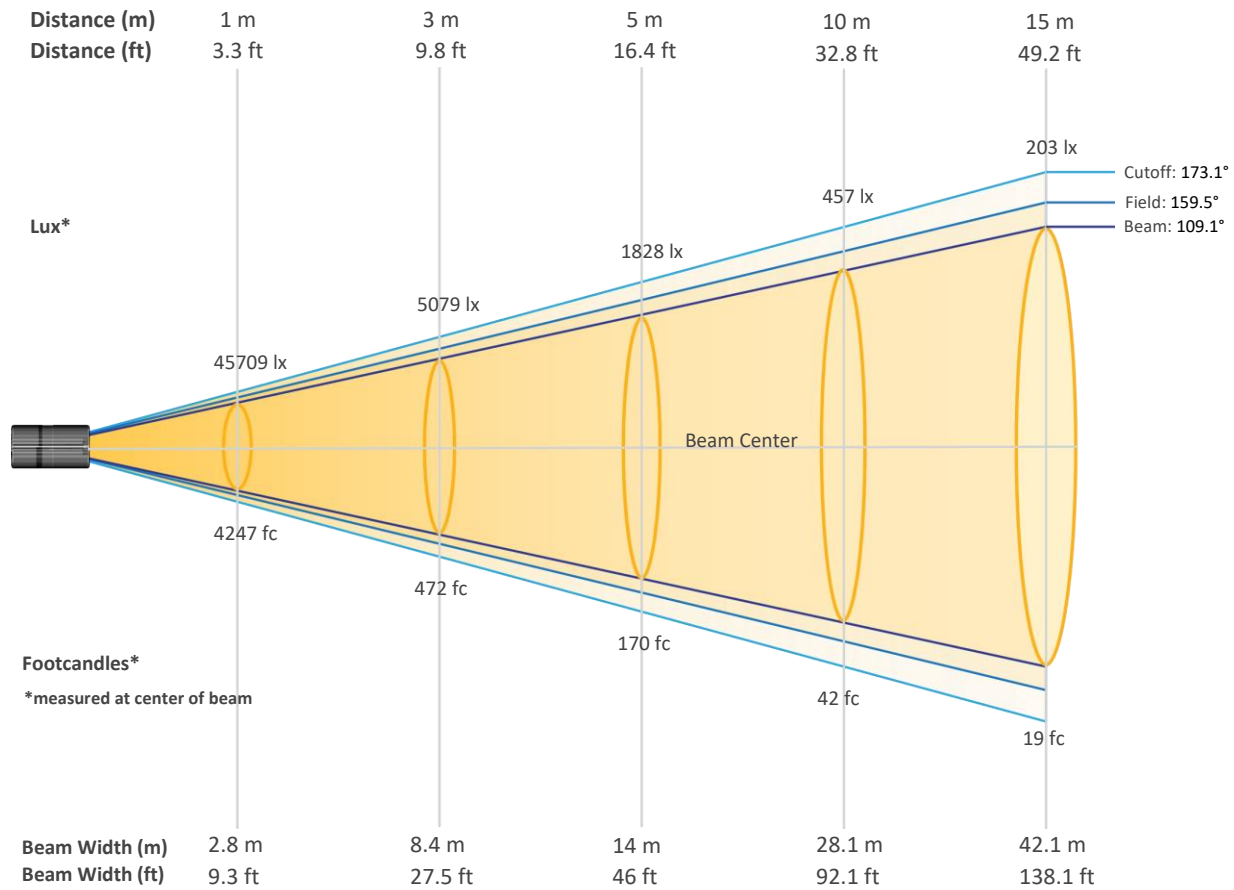
Color Temperature

5636 K

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## Beam Details

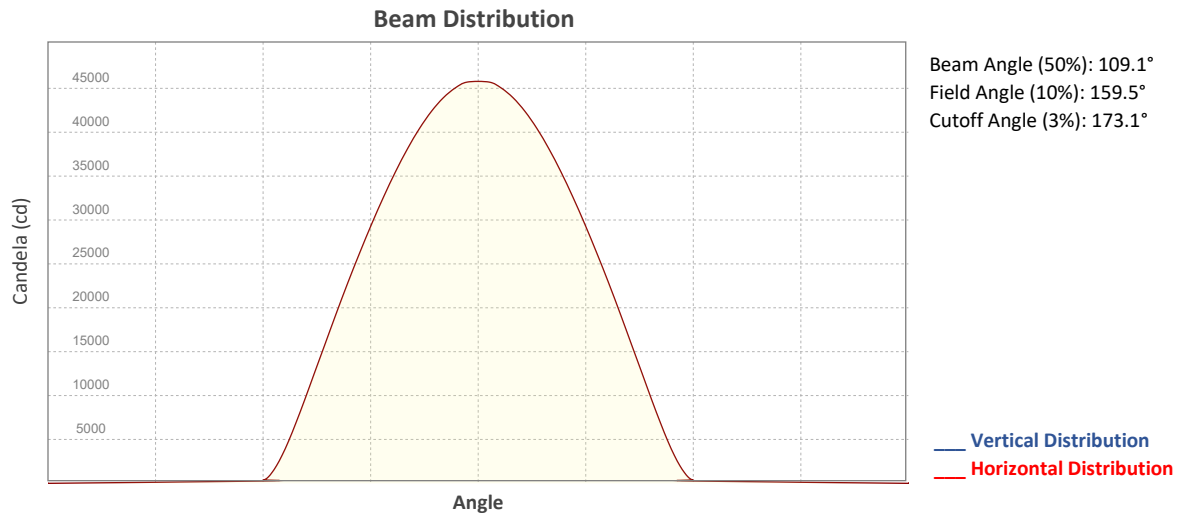


### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	45709	11427	5079	2857	1828	1270	933	714	564	457
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	378	317	270	233	203	179	158	141	127	114
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4247	1062	472	265	170	118	87	66	52	42
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	35	29	25	22	19	17	15	13	12	11

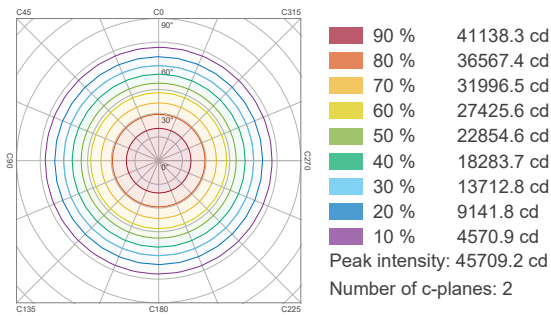
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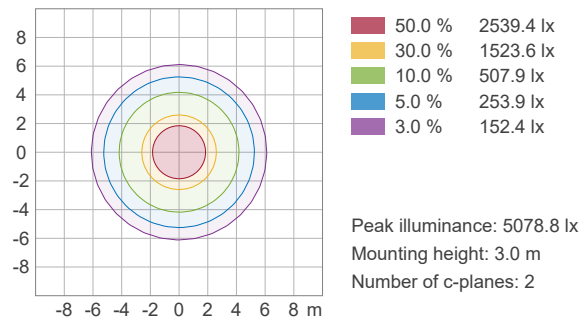


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram



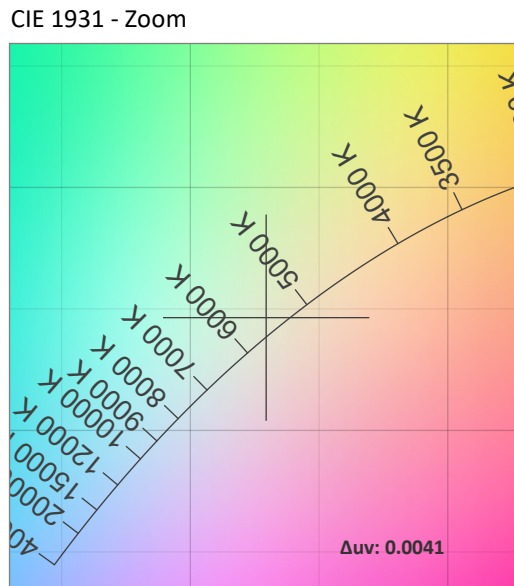
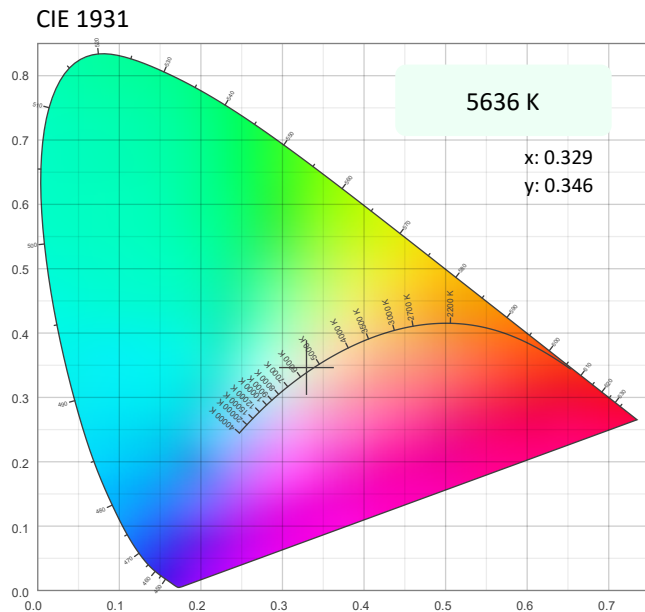
## TLCI Color Checker



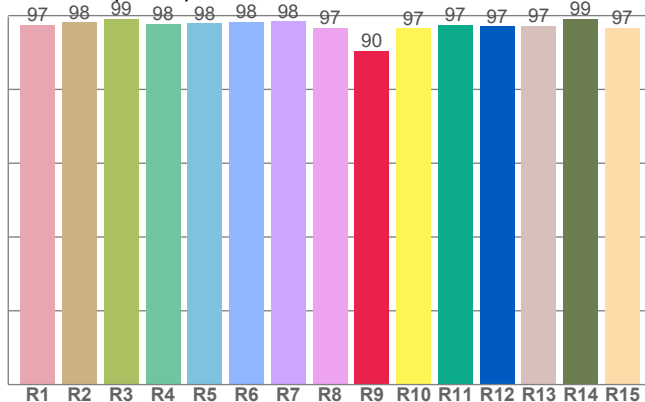
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Celeb Ikon 12: Standard Diffusion - 5600K

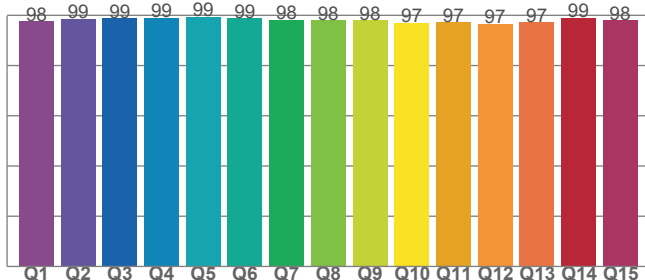
## Chromaticity



### CRI: 98.0 (R1-R8)



### CQS: 98.0



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5636 K	0.329	0.346

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	u	v
0.0041	0.203	0.320

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
98.0	90.4	98.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
99	96.3	100.1

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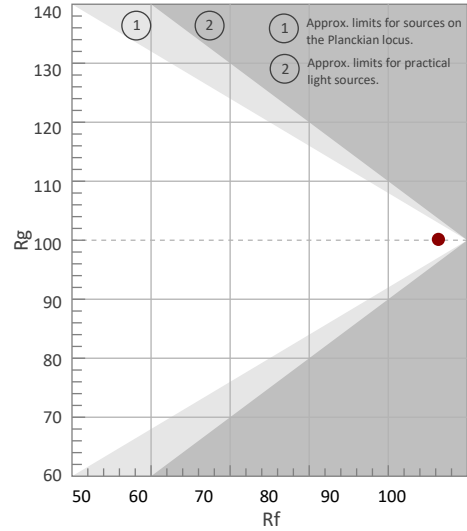
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## TM-30 Details

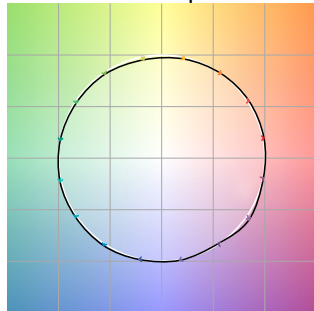
**Rf 96.3**  
Fidelity Index (Rg)

**Rg 100.1**  
Gammut Index (Rg)

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



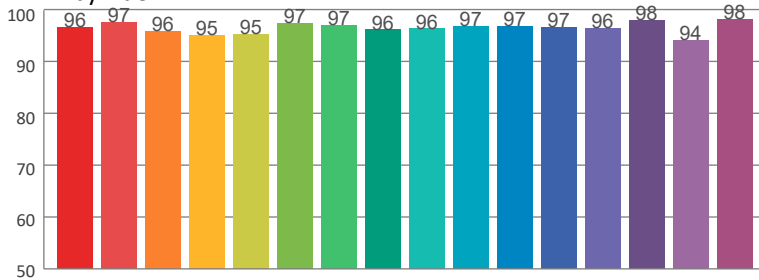
Color Vector Graphic



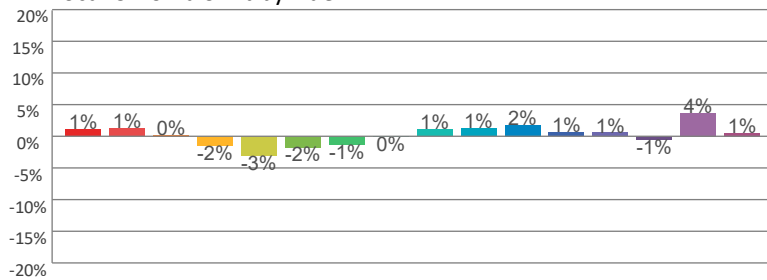
Color Distortion Graphic



R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample

