

# INFINITY

## 100 COLOR

INFINITY 100 LED PANEL RGBW



INFINITY COLOR is a professional RGBW LED soft light designed for television studios, film and video production, live broadcasting and Pro-AV applications.

Its advanced RGBW LED engine combines high-quality tunable white light with full-color capabilities, delivering a soft and uniform beam, natural skin tones and accurate color reproduction. In addition to continuously adjustable color temperature and green/magenta correction, INFINITY COLOR provides precise control of hue and saturation, allowing users to create anything from subtle pastel tones to rich, saturated colors.

Multiple color control modes and built-in lighting effects offer maximum creative flexibility, while high-resolution 16-bit dimming ensures smooth and accurate adjustment throughout the entire range, including at very low light levels. Adjustable PWM frequency provides flicker-free performance for broadcast and high-speed camera applications.

INFINITY range is equipped with a unique onboard accelerometer. The fixture's tilt angle is shown in real time on the display and can be memorized for quick, accurate and repeatable repositioning.

All functions can be managed directly from the intuitive onboard control panel or remotely via DMX and RDM. Designed and manufactured by Cosmolight in Italy, the INFINITY COLOR range combines professional light quality, reliable construction and easy operation for both studio installations and location work.



### KEY FEATURES

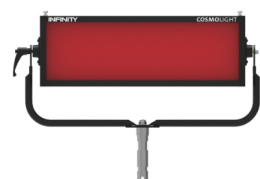
- Advanced RGBW LED engine for high-quality white light and full-color output
- Continuously adjustable color temperature 2500 K – 10000 K
- Green/magenta correction
- High color rendition with excellent CRI, TLCI and TM-30 performance
- Onboard gel library, source emulation and lighting effects
- Smooth low-end dimming with no visible steps or color shift
- Adjustable PWM frequency for flicker-free camera operation
- Intuitive onboard control through graphic display and encoders
- Display positioned on the underside of the fixture, ensuring clear visibility from the studio floor.
- Control options via DMX, W-DMX, ArtNet, RDM
- Unique onboard accelerometer with tilt-angle display and position memory, ensuring accurate and repeatable repositioning
- Adjustable active cooling for quiet operation
- Designed and manufactured in Italy
- Stand alone lighting effect with customizable parameters
- Adjustable color wheel chromatic center



Control panel



Pole operated yoke



Manual operated yoke

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### Specifications

#### SOURCE

|                                     |                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Light source:                       | RGBW LED Light Engine                                                                                         |
| Color Rendition                     | CRI ≥ 96 @3200 K, ≥ 91,4 @5600 K<br>TLCI ≥ 86 @3200 K, ≥ 87 @5600 K<br>TM30 Rf ≥ 92,6 @3200 K, ≥ 85,8 @5600 K |
| Luminous flux                       | 17500 lm @3200 K, 16390 lm @5600 K                                                                            |
| Led control                         | Flicker free variable PWM 1000-25000 Hz                                                                       |
| L70 rating<br>(hours to 70% output) | > 50000 hours                                                                                                 |

#### COLOR SYSTEM

|             |                                                         |
|-------------|---------------------------------------------------------|
| Color modes | CCT, HSI, RGBW, XY, Gel, Source Emulation               |
| CCT         | Variable CCT from 2500 K to 10000 K with full +/- Green |

#### OPTICS

|               |                                |
|---------------|--------------------------------|
| Beam angle    | 130° with standard diffusion   |
| Lens type     | Medium density diffusion panel |
| Aperture Size | 483x146 mm                     |

#### CONTROL OPTIONS

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Protocols          | ArtNet, DMX-512, RDM, CRMX                                               |
| On-board control   | Local control via push encoders, LCD<br>graphic display and push buttons |
| Software interface | USB-C port, DMX XLR 5 pin connector                                      |

#### ELECTRICAL

|                     |                                               |
|---------------------|-----------------------------------------------|
| Power consumption   | 100 W                                         |
| AC Voltage range    | 100-240 Vac, 50/60 Hz                         |
| AC Power connection | PowerCON TRUE1 TOP in/out                     |
| DC Voltage range    | 48 Vdc (100% Output)                          |
| DC Power connection | XLR 4-pin                                     |
| Signal connection   | XLR 5-pin in/out connectors                   |
| Data connection     | EtherCON RJ45 in (Optional)                   |
| Dimming             | 16 bit 0-100% high resolution low-end dimming |

#### MECHANICAL

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| IP rating              | IP20                                                                                        |
| Mounting options       | Manual operated or pole operated yoke,<br>28 mm spigot                                      |
| Weight                 | 7,3 kg manual operated version<br>8,2 kg pole operated version                              |
| Cooling                | Active, super silent operation with preset fan speed                                        |
| Ambient operating temp | 0° C / + 40° C                                                                              |
| Housing material       | Metal                                                                                       |
| Housing color          | Black                                                                                       |
| Tilt angle             | +/- 90°                                                                                     |
| Included accessories   | Yoke with junior pin 28mm, front medium diffusion filter, NEUTRIK POWERCON TRUE1 power cord |

#### ORDERING CODE

|          |                                   |
|----------|-----------------------------------|
| RC 5100C | Infinity 100 RGBW manual operated |
| RC 5102C | Infinity 100 RGBW pole operated   |

#### ADDITIONAL ORDERING CODE

|             |                                     |
|-------------|-------------------------------------|
| RC 5100BB   | Barndoor                            |
| RC 5100HC40 | Honey Comb                          |
| FF3100      | Studio pipe clamp 28mm              |
| FF3871      | Steel safety cable Ø4mm 70cm length |

### Photometrics data

#### TYPICAL PERFORMANCE BASED ON 3200 K - 5600 K - 100W

| Distance                            |             | 3 m    |        | 4 m    |        | 5 m    |        | 7 m    |        | 9 m    |        |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| CCT (Tunable from 2800 K to 6500 K) |             | 3200 K | 5600 K | 3200 K | 5600 K | 3200 K | 5600 K | 3200 K | 5600 K | 3200 K | 5600 K |
| OUTPUT MEDIUM                       | 4824 cd (T) | 536 lx | 502 lx | 302 lx | 282 lx | 193 lx | 181 lx | 98 lx  | 92 lx  | 60 lx  | 56 lx  |
| DIFFUSION                           | 4518 cd (D) | 50 fc  | 47 fc  | 28 fc  | 26 fc  | 18 fc  | 17 fc  | 9 fc   | 8 fc   | 6 fc   | 5 fc   |
| Beam angle at 50% of center value   |             |        |        |        |        |        |        |        |        |        |        |

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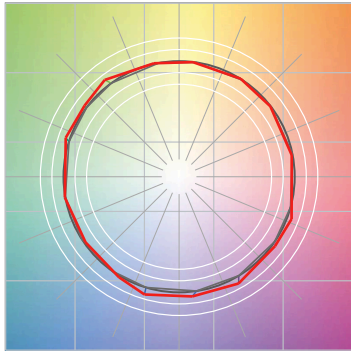
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### Color information

#### TM-30 DETAILS 3200 K

IES TM-30-18 color rendition



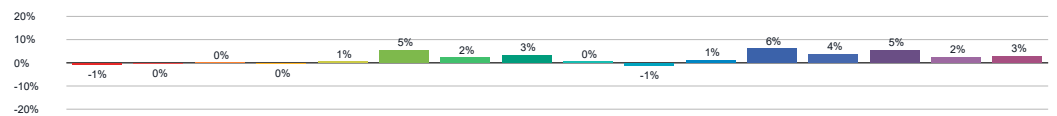
Rf 92,6

Fidelity index Rf

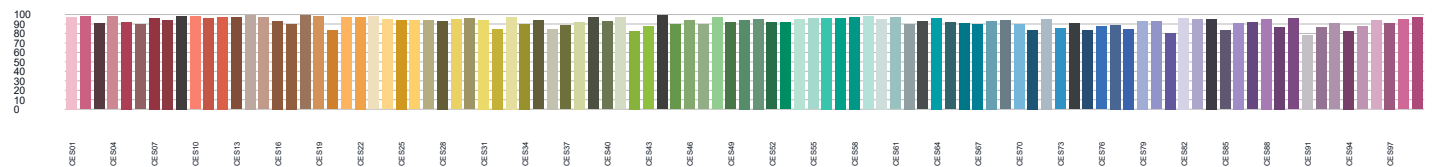
Rg 103,8

Gamut index

Chroma shift by hue

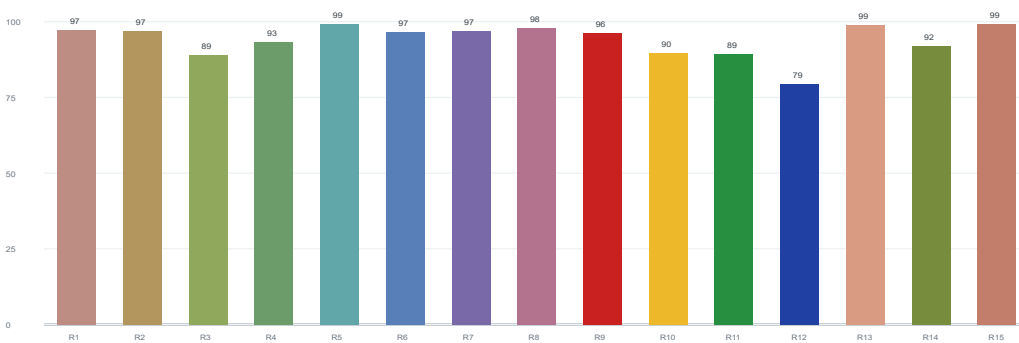


Fidelity index Rf



#### CRI / Rendering indexes 3200 K

CRI / Rendering indexes



#### Summary

CRI Ra

96

CRI R9

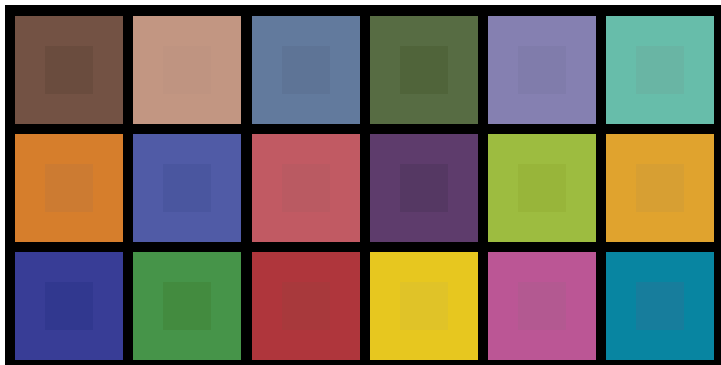
96

CCT Typ

3206 K

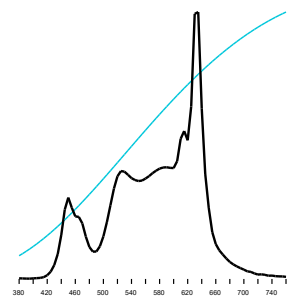
#### TLCI 3200 K

TLCI\_3200K: CCT = 3206 Duv 0.000083



TLCI Qa: 86 (P3206)

| Sector | Lightness | Chroma | Hue |
|--------|-----------|--------|-----|
| R      | 0         | 0      | 0   |
| R/Y    | 0         | 0      | -   |
| Y      | 0         | 0      | +   |
| Y/G    | 0         | +      | 0   |
| G      | 0         | ++     | 0   |
| G/C    | 0         | ++     | -   |
| C      | 0         | +      | --- |
| C/B    | 0         | 0      | 0   |
| B      | 0         | 0      | 0   |
| B/M    | 0         | 0      | 0   |
| M      | 0         | ++     | 0   |
| M/R    | 0         | +      | --- |



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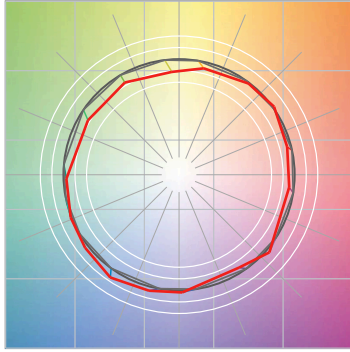
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### Color information

#### TM-30 DETAILS 5600 K

IES TM-30-18 color rendition



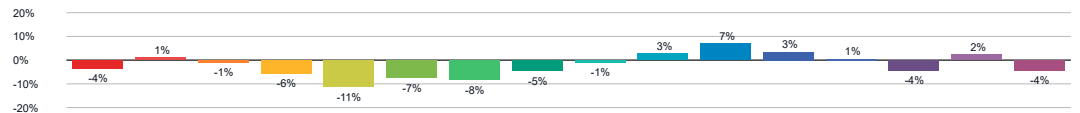
Rf 85,8

Fidelity index Rf

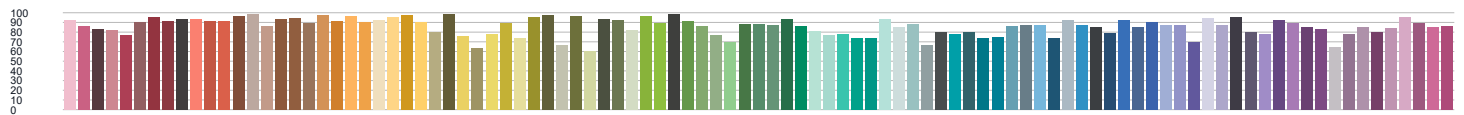
Rg 94,5

Gamut index

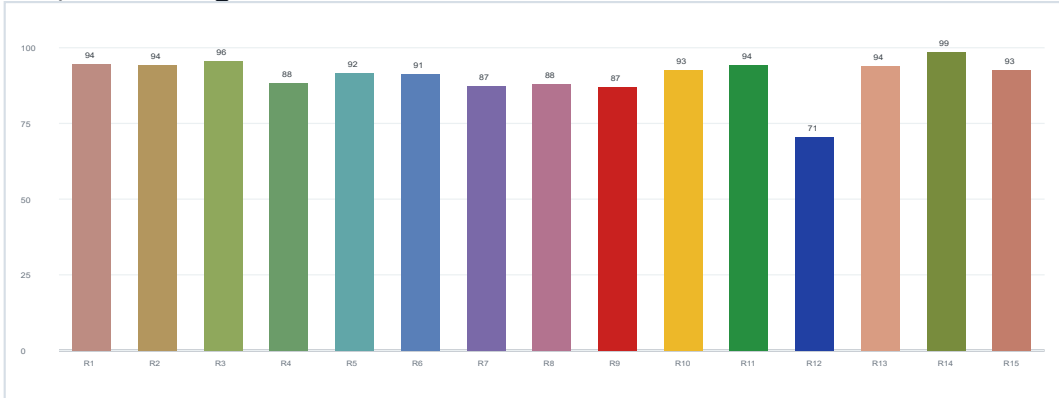
Chroma shift by hue



Fidelity index Rf



#### CRI / Rendering indexes 5600 K



#### Summary

CRI Ra

91,4

CRI R9

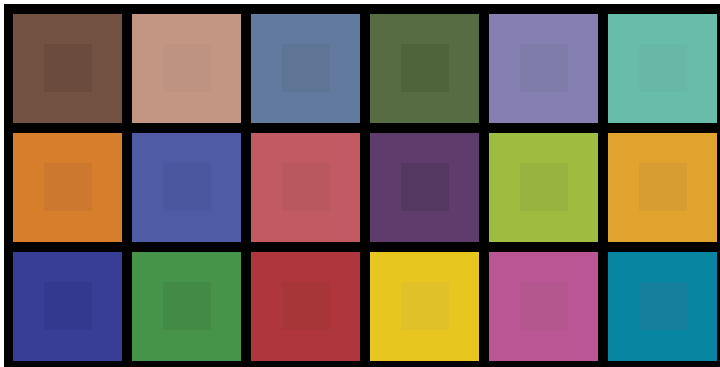
87

CCT Temp

5629 K

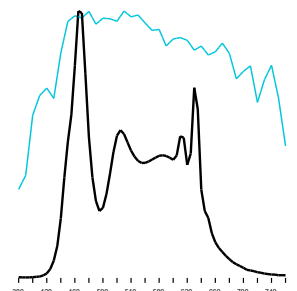
#### TLCI 5600 K

TLCI\_5600K: CCT = 5629 Duv 0.000212



TLCI Qa: 87 (P5629)

| Sector | Lightness | Chroma | Hue |
|--------|-----------|--------|-----|
| R      | 0         | -      | 0   |
| R/Y    | 0         | -      | 0   |
| Y      | 0         | 0      | +   |
| Y/G    | 0         | 0      | 0   |
| G      | 0         | 0      | +   |
| G/C    | 0         | 0      | 0   |
| C      | 0         | -      | ++  |
| C/B    | 0         | 0      | 0   |
| B      | 0         | +      | +++ |
| B/M    | 0         | 0      | +   |
| M      | 0         | +      | 0   |
| M/R    | 0         | --     | -   |



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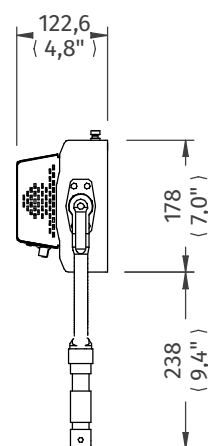
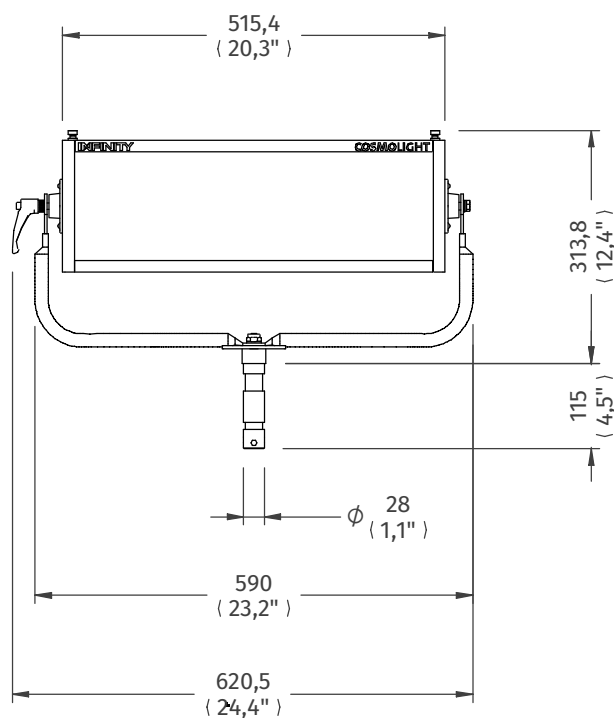
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**COSMOLIGHT**

### Technical drawings

#### Manual Operated Yoke



#### Pole Operated Yoke

