

# **OPUS SP6FC** (CLOSP6FC)

# PHOTOMETRIC TEST REPORT



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# OPUS SP6FC

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# OPUS SP6FC

## Report Introduction

### About this report

We measure total luminous flux with state-of-the-art equipment, such as an integrating sphere and a goniophotometer, based on a 6-Axis industry Robot. In this process we rely on our professional Cameo photometric laboratory or certified partners. Our measurements reflect the utilised flux emitted from the luminaire at all radiating angles considering the zoom range.
We process our measurement data in a specialized software to calculate all photometric data. This photometric report includes spectra, light distribution, TM30-15, TLCI, and many other standardised reports. Additionally, we provide photometric data in IES and LDT file format.

### Measurement conditions

- Stabilised laboratory room temperature for absolute consistency
- Stabilised luminaires (max. +-0.5% flux for at least 15min)
- Goniophotometer resolution: gamma = 5° and C-level = 0.1°
- Distance > photometric limit distance (tolerance < 1.0%)
- Calibrated and accurate tools

### Equipment

- Goniometer with 6-Axis Robogonio by Opsira including Spectral Radiometer Spec`3 and frc-f-I, a fast Class-L Photometer for flicker etc.
- Integrating sphere UKU800 by Opsira
- Spectral Radiometer Spec`3 by Opsira
- Luxmeter Gossen MavoLux 5032-C
- Handheld-Spectrometer Gossen MavoSpec M600A
- Handheld-Spectrometer UPR-Tec MK350S Premium


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## Overview

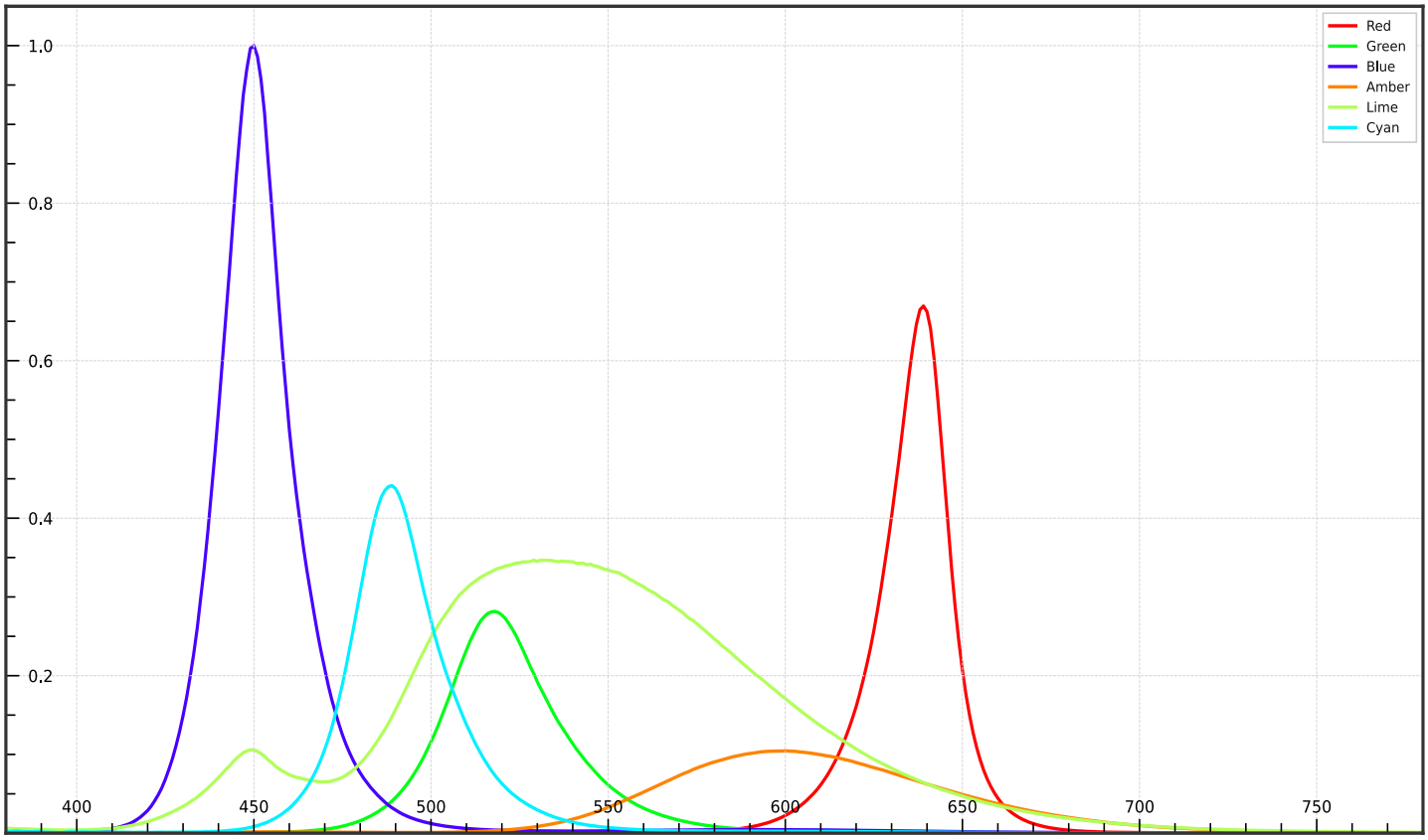
| LED Colours | Lum flux [lm] | x | y |
|---|---|---|---|
| Red | 1141 | 0.6998 | 0.2975 |
| Green | 2394 | 0.1552 | 0.7067 |
| Blue | 498 | 0.1569 | 0.0311 |
| Amber | 1665 | 0.5583 | 0.4307 |
| Lime | 8530 | 0.3336 | 0.5014 |
| Cyan | 1287 | 0.0895 | 0.3167 |

| Colour space | Coverage [%] |
|---|---|
| Rec2020 | 89.7 |
| Adobe RGB | 97.2 |
| DCI P3 | 94.3 |
| ProPhoto RGB | 76.7 |
| sRGB | 100.0 |

### CIE 1931 Chromaticity Diagram - 2° Standard Observer




### Spectral Distribution for Colours (Wavelength [nm] --> relative Intensity)








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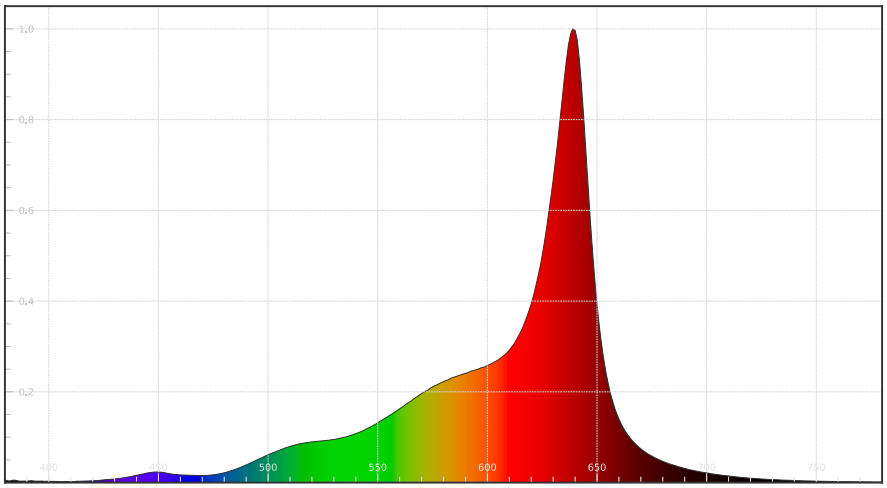
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## CCT-1800K Quality Mode – Colorimetric Report

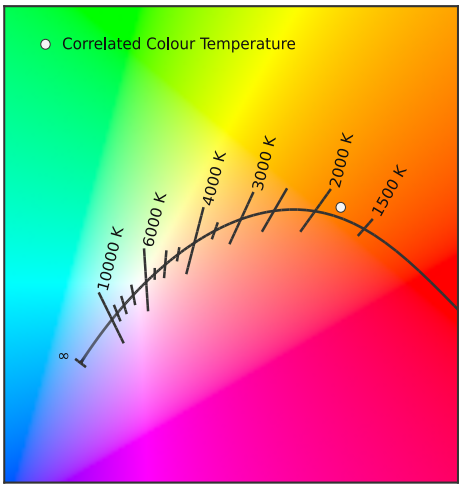
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 1794 | Luminous Flux [lm] | **Lum Flux** | 3500 |
| Colour Deviation from Black | **$D_{uv}$** | -0.0001 | Colour Rendering Index | **CRI Ra** | 95 |
| Colour Coordinate CIE 1931 | **x** | 0.5497 | Red Component | **CRI R9** | 97 |
| Colour Coordinate CIE 1931 | **y** | 0.4077 | Colour Fidelity | **TM30 $R_f$** | 92 |
| Colour Coordinate CIE 1976 | **u'** | 0.3237 | Colour Gamut | **TM30 $R_g$** | 100 |
| Colour Coordinate CIE 1976 | **v'** | 0.5401 | Television Lighting Consistency Index | **TLCI** | 77 |
| Spectral Similarity Index | **SSI[P1794]** | 72 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)




### Colour Temperature

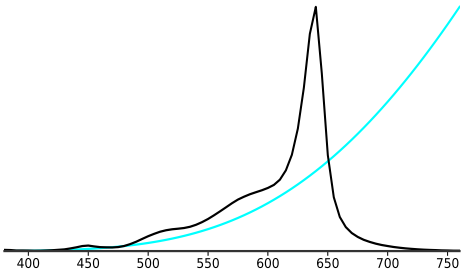



### Television Lighting Consistency Index-2012

CCT = P1794 ( -0.0 ) TLCI-2012 : 77 (P1794)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:1800K Quality Mode



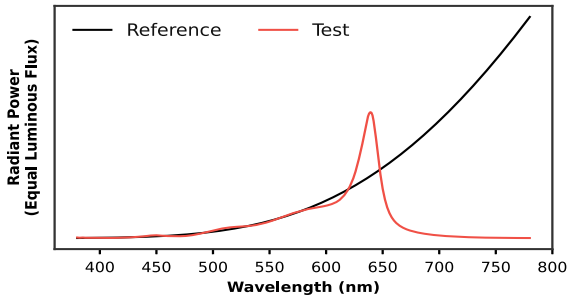


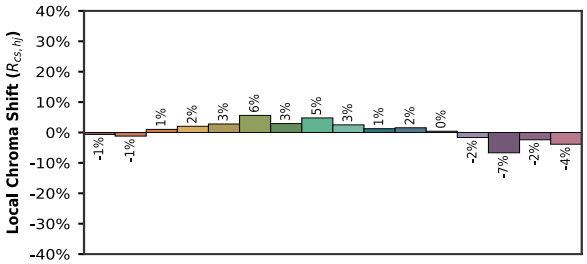
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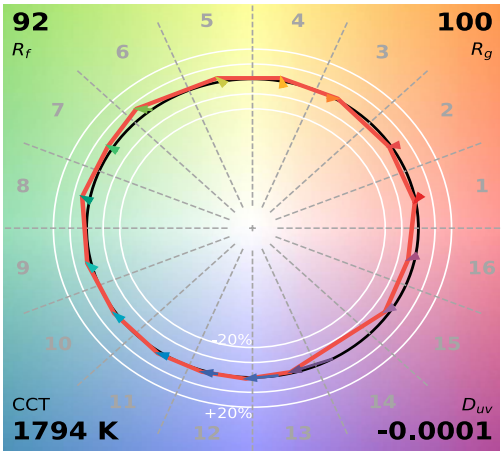
# OPUS SP6FC

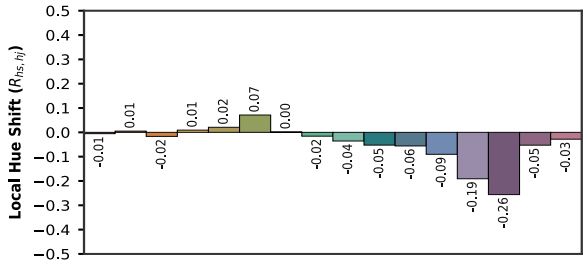
## CCT-1800K Quality Mode – Colorimetric Report

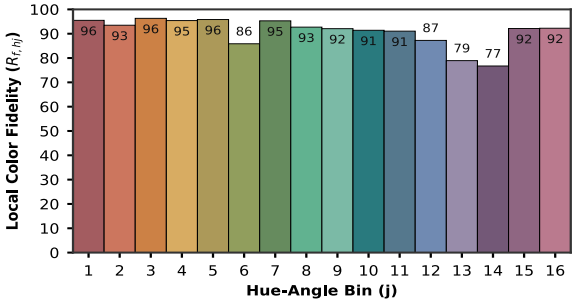
### IES TM-30-18 Colour Rendition Report

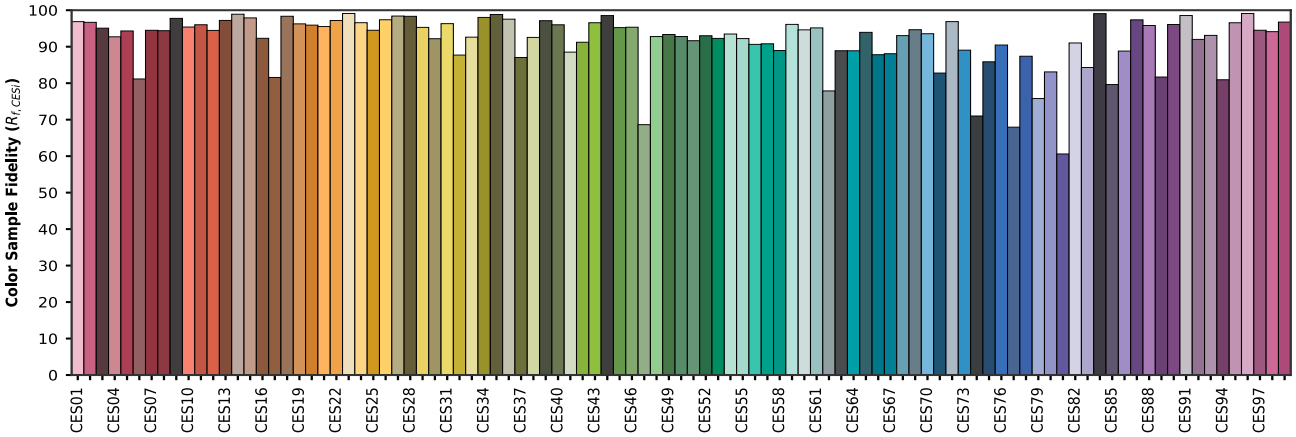



| | |
|---|---|
| *x* | **0.5497** |
| *y* | **0.4077** |
| *u′* | **0.3237** |
| *v′* | **0.5401** |

**CIE 13.31-1995**
**(CRI)**
$R_a$ **95**
$R_9$ **97**

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:1800K Quality Mode





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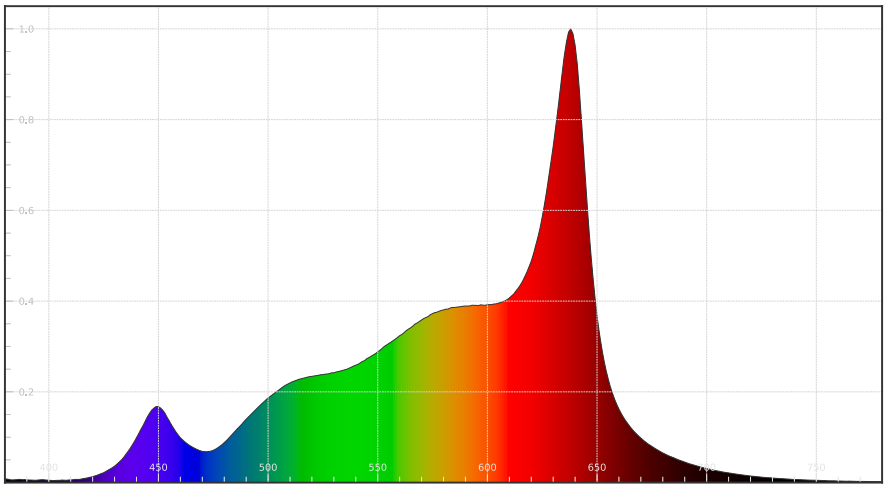
# OPUS SP6FC

## CCT-2700K Quality Mode – Colorimetric Report

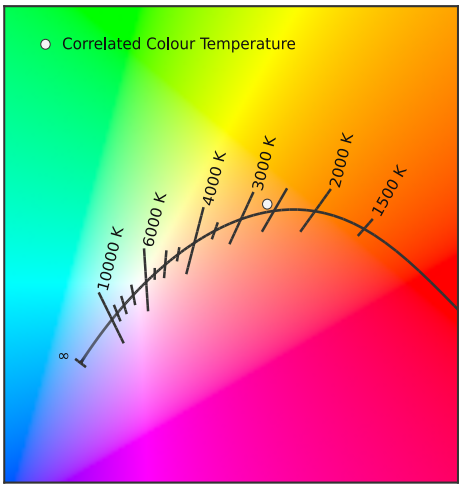
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 2661 | Luminous Flux [lm] | **Lum Flux** | 4500 |
| Colour Deviation from Black | **$D_{uv}$** | 0.0004 | Colour Rendering Index | **CRI Ra** | 98 |
| Colour Coordinate CIE 1931 | **x** | 0.4638 | Red Component | **CRI R9** | 98 |
| Colour Coordinate CIE 1931 | **y** | 0.4126 | Colour Fidelity | **TM30 $R_f$** | 95 |
| Colour Coordinate CIE 1976 | **u'** | 0.2641 | Colour Gamut | **TM30 $R_g$** | 102 |
| Colour Coordinate CIE 1976 | **v'** | 0.5287 | Television Lighting Consistency Index | **TLCI** | 88 |
| Spectral Similarity Index | **SSI[P2661]** | 77 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)




### Colour Temperature

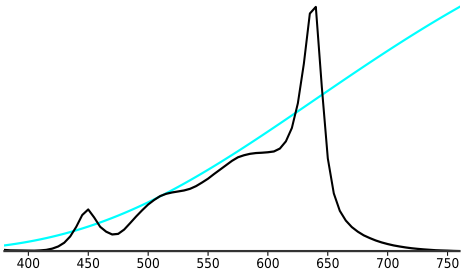



### Television Lighting Consistency Index-2012

CCT = P2661 ( 0.1 ) TLCI-2012 : 88 (P2661)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:2700K Quality Mode

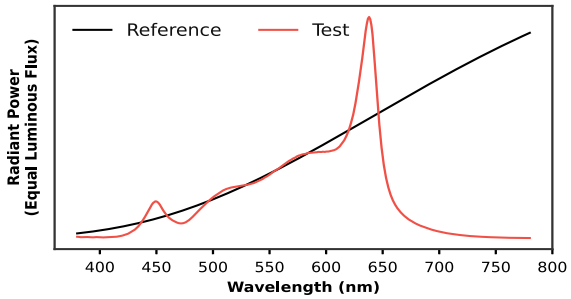


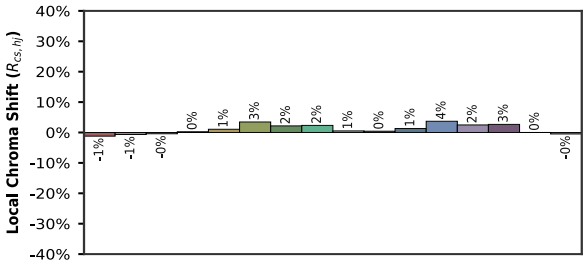


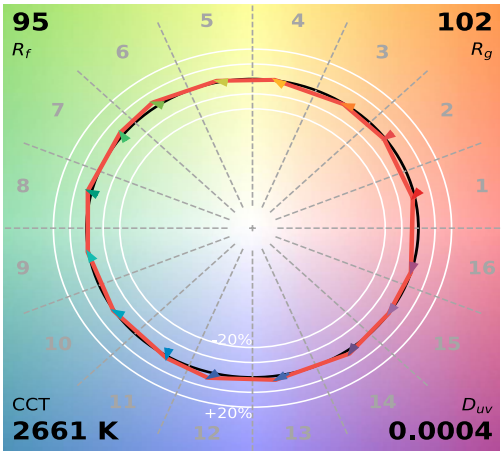
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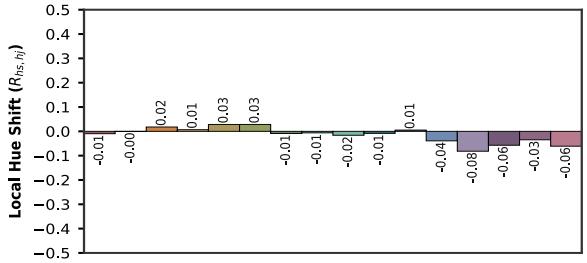
## CCT-2700K Quality Mode – Colorimetric Report

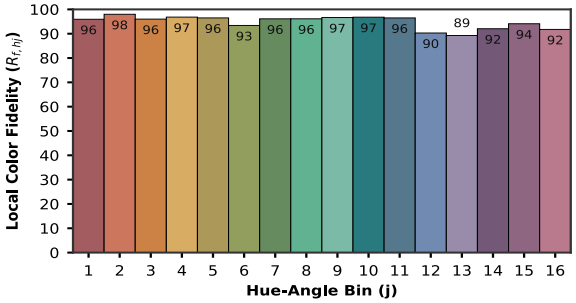
### IES TM-30-18 Colour Rendition Report

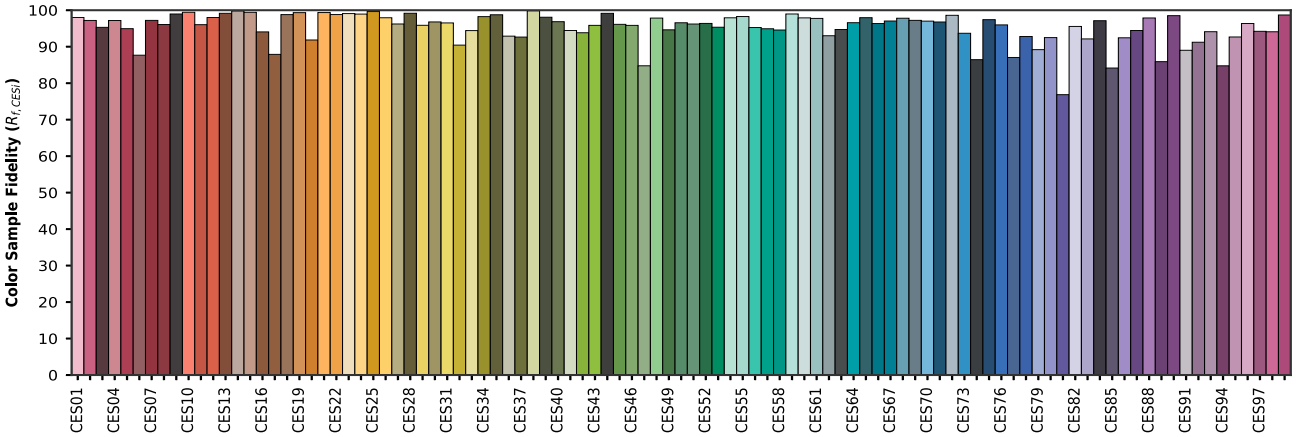



| | |
|---|---|
| $x$ | **0.4638** |
| $y$ | **0.4126** |
| $u'$ | **0.2641** |
| $v'$ | **0.5287** |

**CIE 13.31-1995**
**(CRI)**
$R_a$ **98**
$R_9$ **98**

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:2700K Quality Mode





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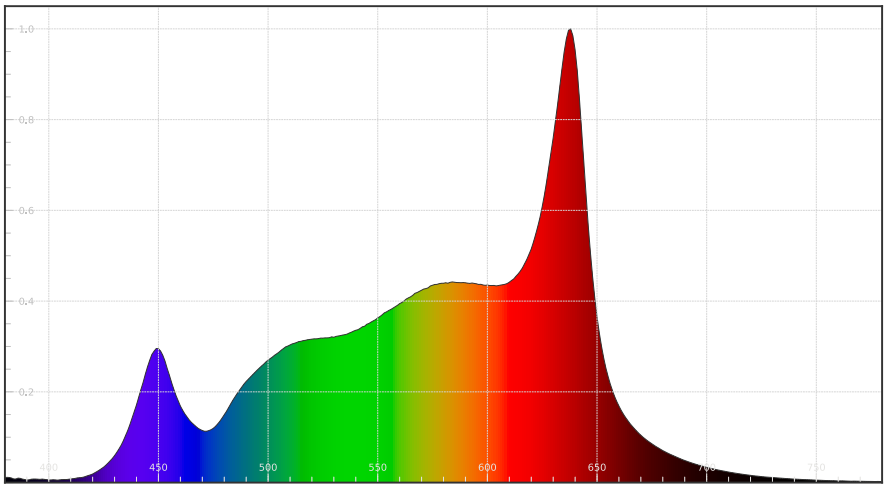
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## CCT-3200K Quality Mode – Colorimetric Report

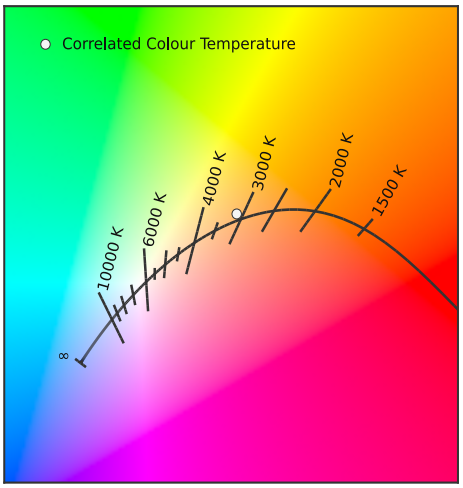
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 3137 | Luminous Flux [lm] | **Lum Flux** | 5250 |
| Colour Deviation from Black | **$D_{uv}$** | 0.0006 | Colour Rendering Index | **CRI Ra** | 98 |
| Colour Coordinate CIE 1931 | **x** | 0.4283 | Red Component | **CRI R9** | 99 |
| Colour Coordinate CIE 1931 | **y** | 0.4025 | Colour Fidelity | **TM30 $R_f$** | 96 |
| Colour Coordinate CIE 1976 | **u'** | 0.2457 | Colour Gamut | **TM30 $R_g$** | 102 |
| Colour Coordinate CIE 1976 | **v'** | 0.5195 | Television Lighting Consistency Index | **TLCI** | 91 |
| Spectral Similarity Index | **SSI[P3137]** | 77 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)




### Colour Temperature

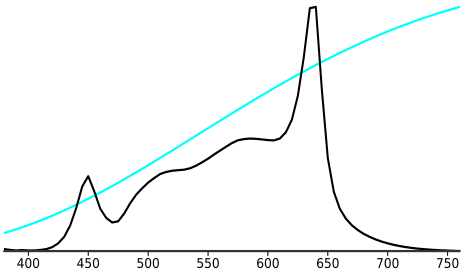



### Television Lighting Consistency Index-2012

CCT = P3137 ( 0.1 ) TLCI-2012 : 91 (P3137)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:3200K Quality Mode

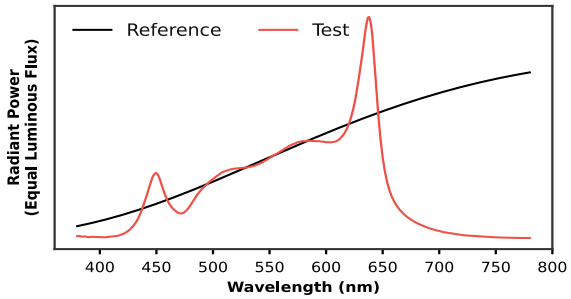


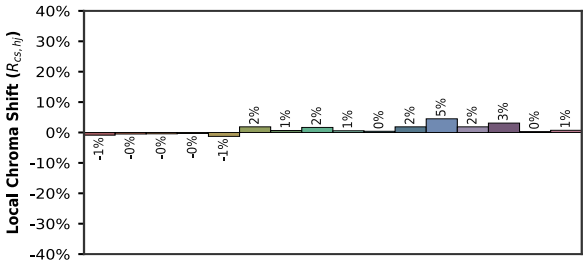


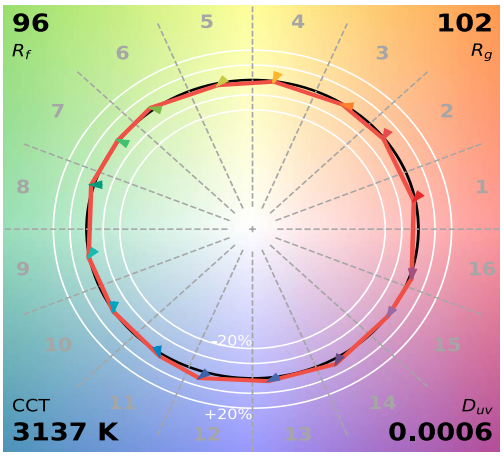
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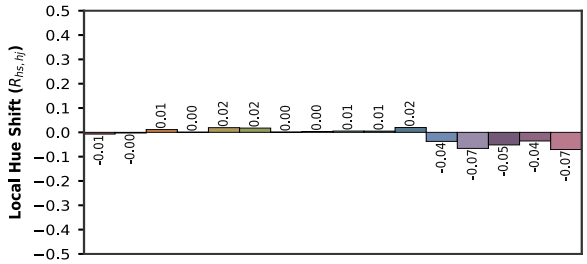
## CCT-3200K Quality Mode – Colorimetric Report

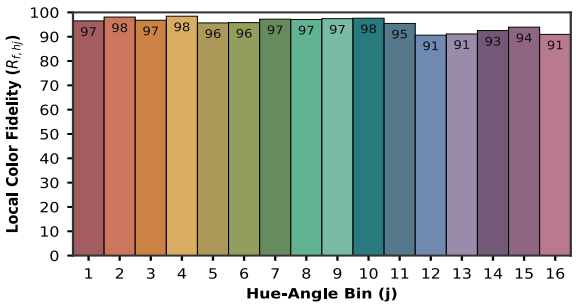
### IES TM-30-18 Colour Rendition Report

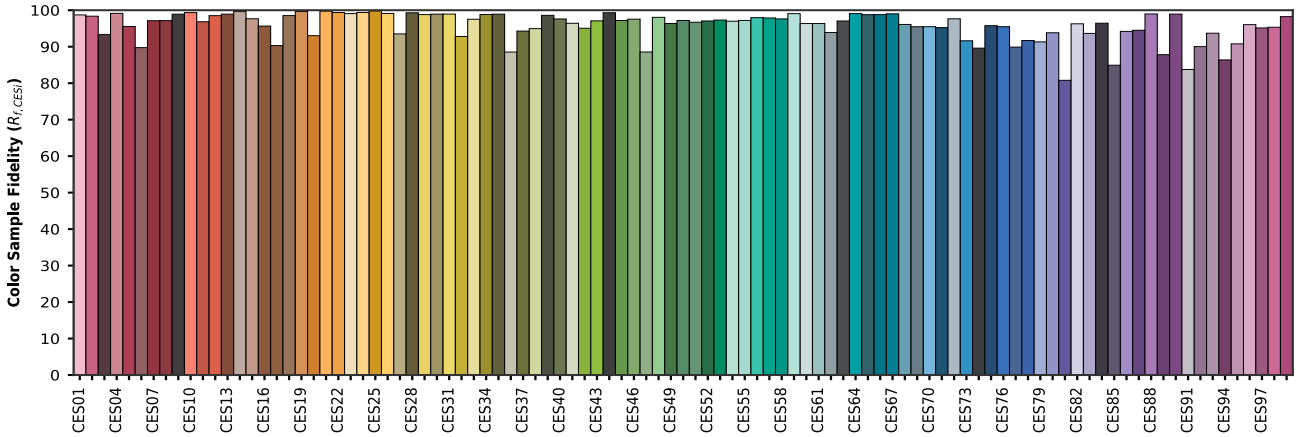



| | |
|---|---|
| $x$ | **0.4283** |
| $y$ | **0.4025** |
| $u'$ | **0.2457** |
| $v'$ | **0.5195** |

| **CIE 13.31-1995** |
|---|
| **(CRI)** |
| $R_a$ **98** |
| $R_9$ **99** |

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:3200K Quality Mode





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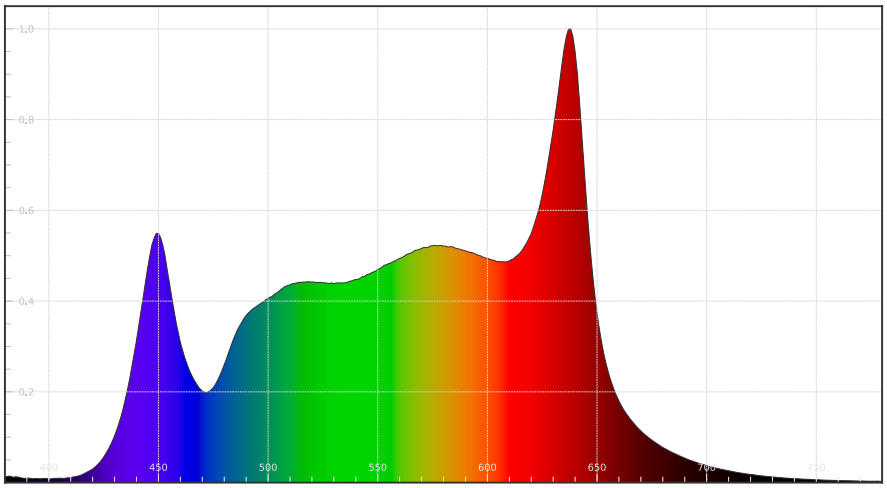
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## CCT-4000K Quality Mode – Colorimetric Report

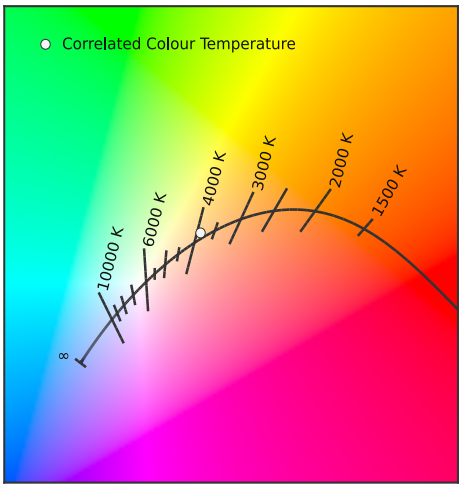
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 3888 | Luminous Flux [lm] | **Lum Flux** | 6300 |
| Colour Deviation from Black | **$D_{uv}$** | 0.0012 | Colour Rendering Index | **CRI Ra** | 99 |
| Colour Coordinate CIE 1931 | **x** | 0.3864 | Red Component | **CRI R9** | 99 |
| Colour Coordinate CIE 1931 | **y** | 0.3830 | Colour Fidelity | **TM30 $R_f$** | 95 |
| Colour Coordinate CIE 1976 | **u'** | 0.2265 | Colour Gamut | **TM30 $R_g$** | 101 |
| Colour Coordinate CIE 1976 | **v'** | 0.5052 | Television Lighting Consistency Index | **TLCI** | 92 |
| Spectral Similarity Index | **SSI[P3888]** | 74 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)




### Colour Temperature

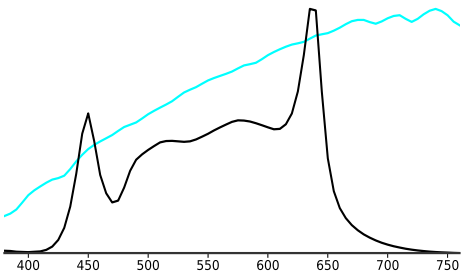



### Television Lighting Consistency Index-2012

CCT = M3888 ( 0.2 ) TLCI-2012 : 92 (M3888)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:4000K Quality Mode

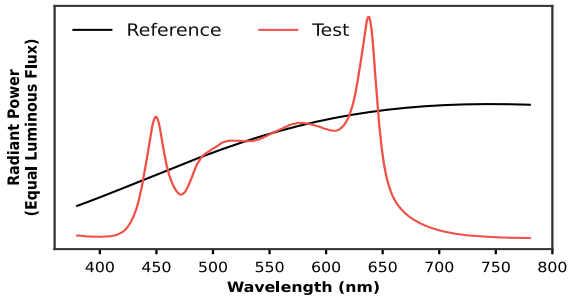


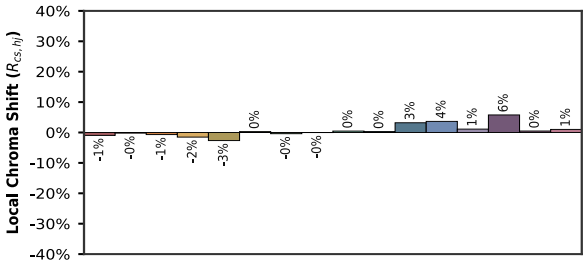


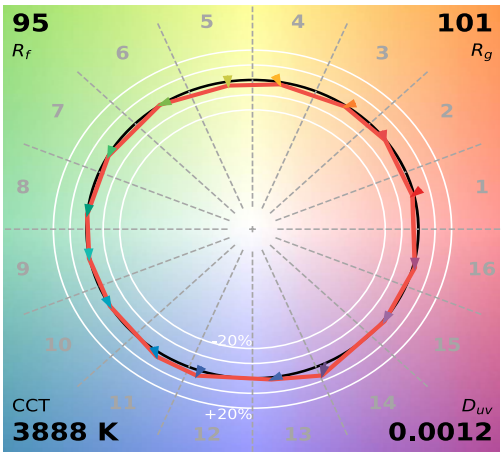
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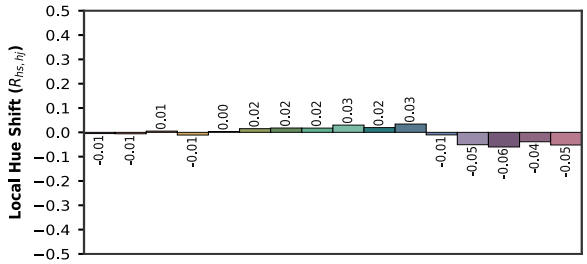
## CCT-4000K Quality Mode – Colorimetric Report

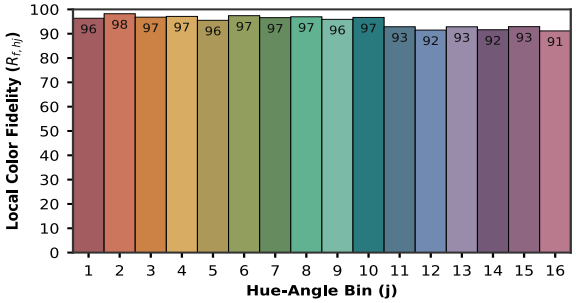
### IES TM-30-18 Colour Rendition Report

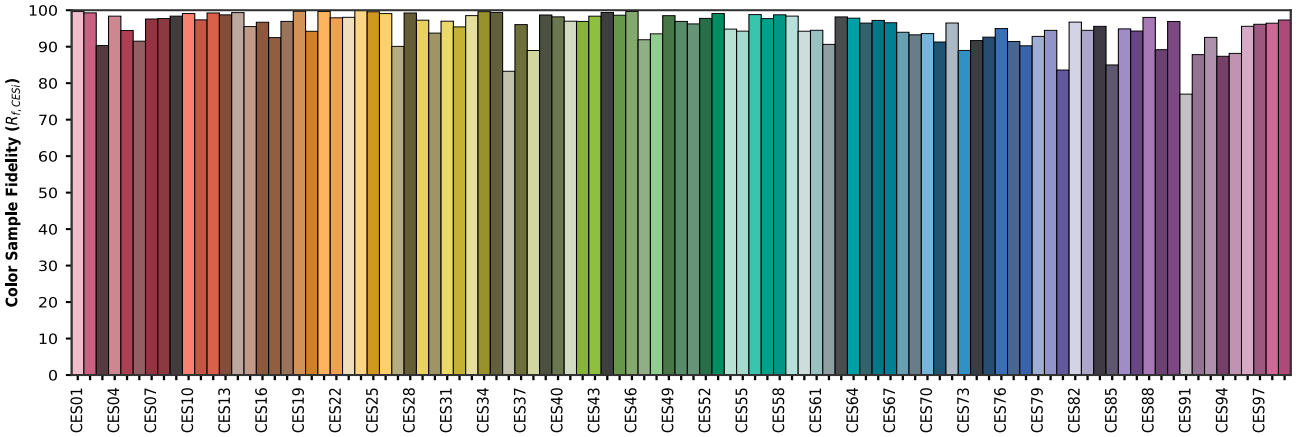



| | |
|---|---|
| $x$ | **0.3864** |
| $y$ | **0.3830** |
| $u'$ | **0.2265** |
| $v'$ | **0.5052** |

**CIE 13.31-1995**
**(CRI)**
$R_a$ **99**
$R_9$ **99**

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:4000K Quality Mode





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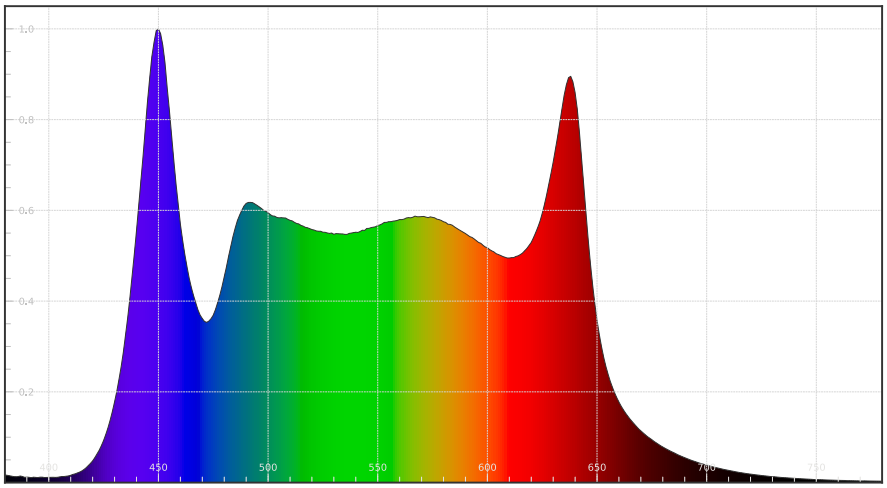
# OPUS SP6FC

## CCT-5600K Quality Mode – Colorimetric Report

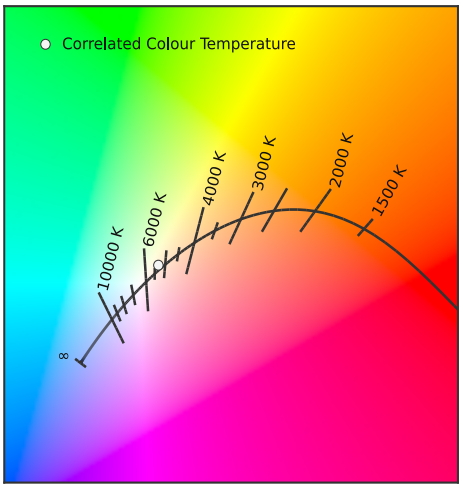
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 5322 | Luminous Flux [lm] | **Lum Flux** | 8200 |
| Colour Deviation from Black | **$D_{uv}$** | 0.0014 | Colour Rendering Index | **CRI Ra** | 99 |
| Colour Coordinate CIE 1931 | **x** | 0.3367 | Red Component | **CRI R9** | 99 |
| Colour Coordinate CIE 1931 | **y** | 0.3475 | Colour Fidelity | **TM30 $R_f$** | 95 |
| Colour Coordinate CIE 1976 | **u'** | 0.2073 | Colour Gamut | **TM30 $R_g$** | 101 |
| Colour Coordinate CIE 1976 | **v'** | 0.4814 | Television Lighting Consistency Index | **TLCI** | 94 |
| Spectral Similarity Index | **SSI[CIE D5322]** | 73 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)




### Colour Temperature

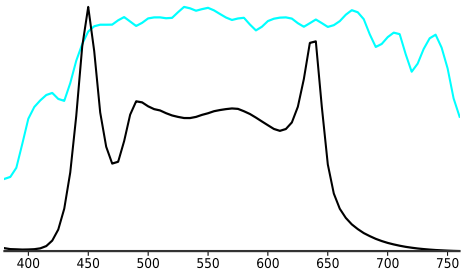



### Television Lighting Consistency Index-2012

CCT = D5322 ( 0.3 ) TLCI-2012 : 94 (D5322)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:5600K Quality Mode

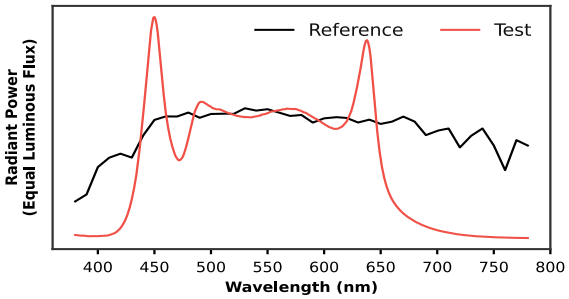


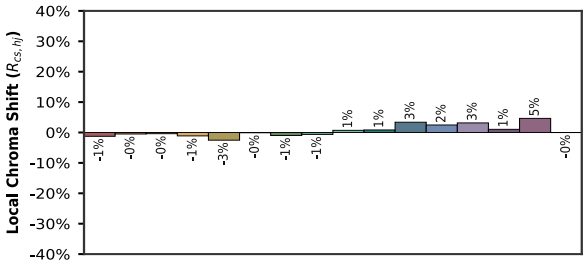


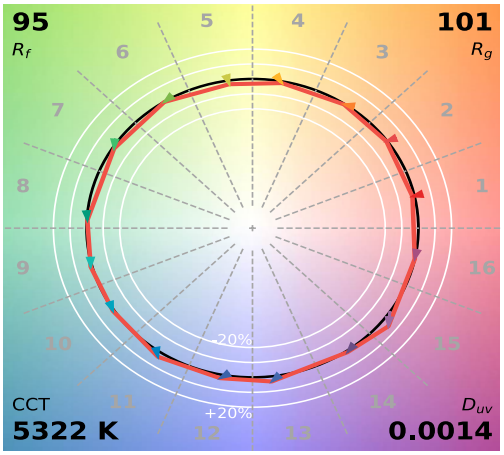
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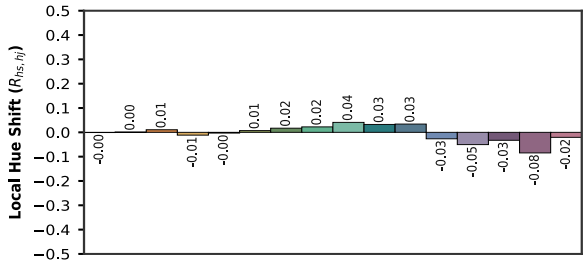
## CCT-5600K Quality Mode – Colorimetric Report

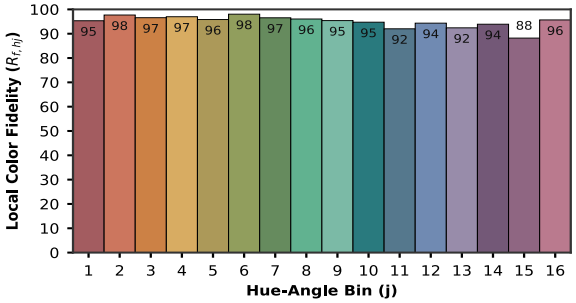
### IES TM-30-18 Colour Rendition Report

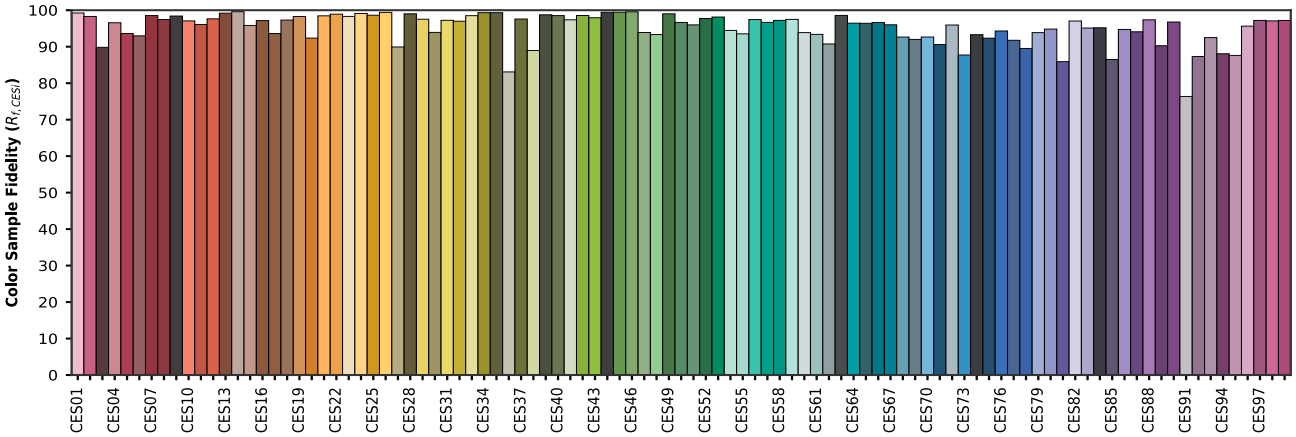



| | |
|---|---|
| *x* | **0.3367** |
| *y* | **0.3475** |
| *u′* | **0.2073** |
| *v′* | **0.4814** |

**CIE 13.31-1995**
**(CRI)**
$R_a$ **99**
$R_9$ **99**

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:5600K Quality Mode





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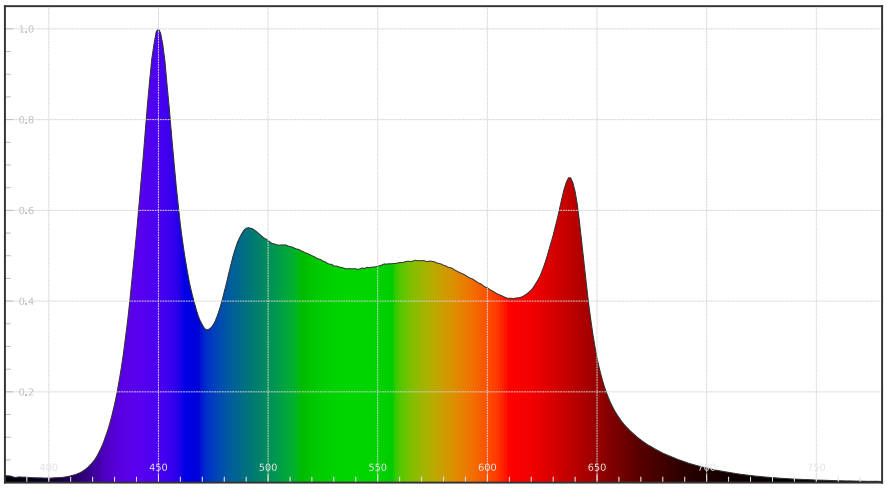
# OPUS SP6FC

## CCT-6500K Quality Mode – Colorimetric Report

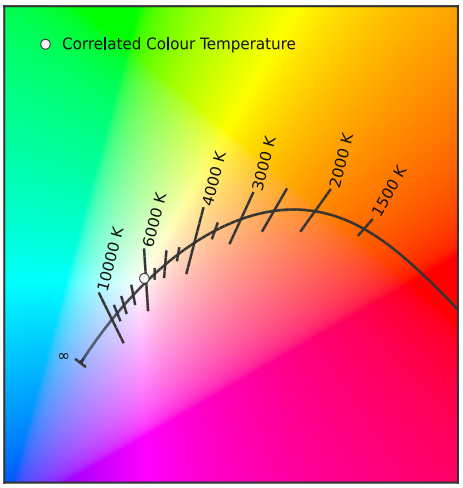
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 6095 | Luminous Flux [lm] | **Lum Flux** | 8300 |
| Colour Deviation from Black | **$D_{uv}$** | 0.0013 | Colour Rendering Index | **CRI Ra** | 98 |
| Colour Coordinate CIE 1931 | **x** | 0.3201 | Red Component | **CRI R9** | 98 |
| Colour Coordinate CIE 1931 | **y** | 0.3324 | Colour Fidelity | **TM30 $R_f$** | 95 |
| Colour Coordinate CIE 1976 | **u'** | 0.2017 | Colour Gamut | **TM30 $R_g$** | 101 |
| Colour Coordinate CIE 1976 | **v'** | 0.4712 | Television Lighting Consistency Index | **TLCI** | 94 |
| Spectral Similarity Index | **SSI[CIE D6095]** | 70 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)

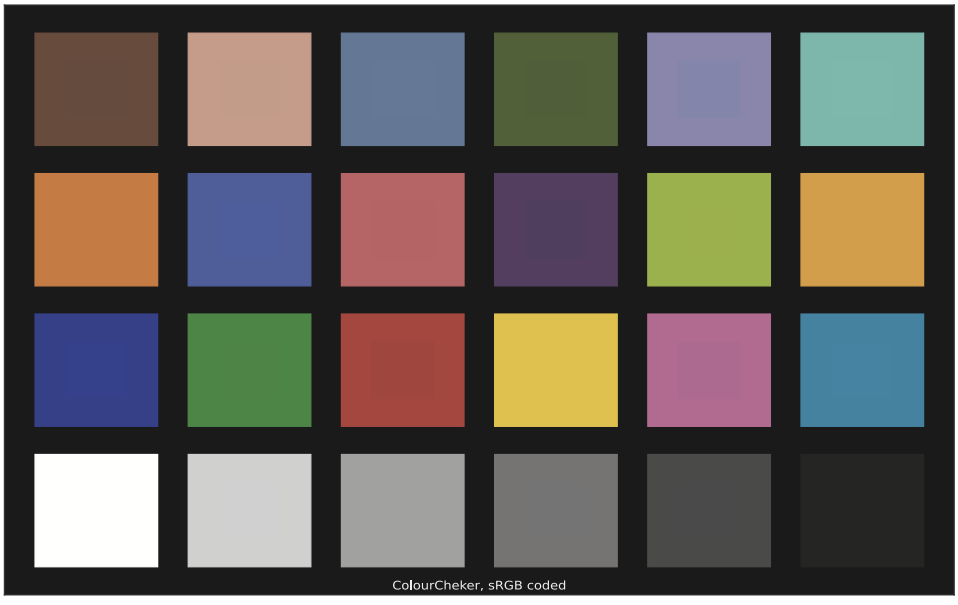



### Colour Temperature

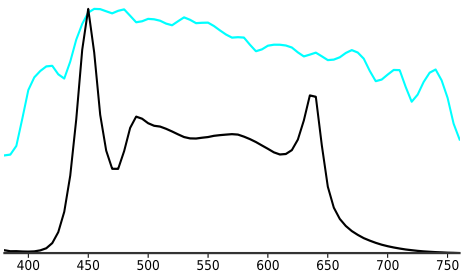



### Television Lighting Consistency Index-2012

CCT = D6095 ( 0.2 ) TLCI-2012 : 94 (D6095)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:6500K Quality Mode

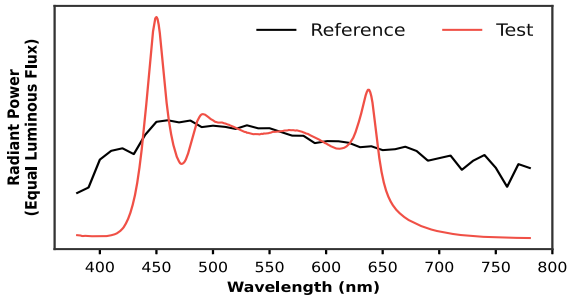


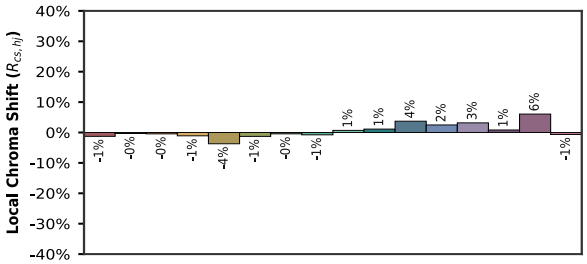


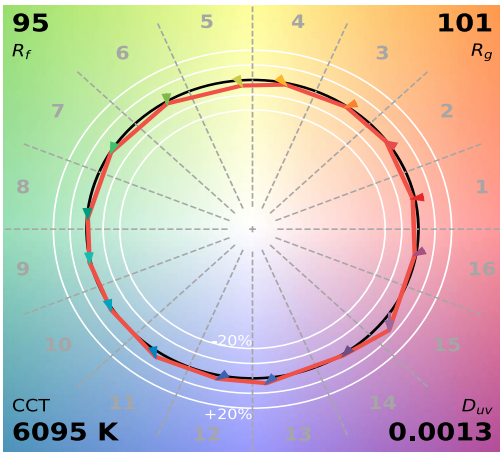
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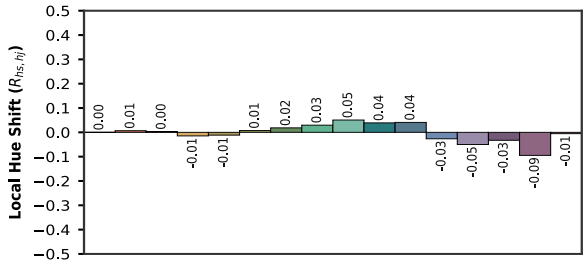
## CCT-6500K Quality Mode – Colorimetric Report

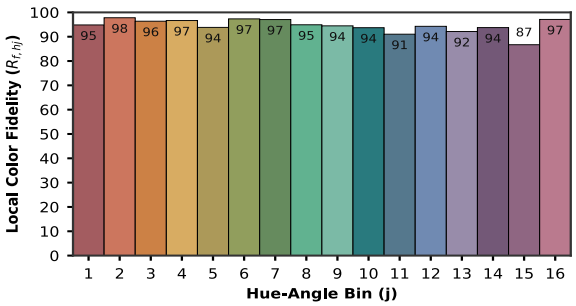
### IES TM-30-18 Colour Rendition Report

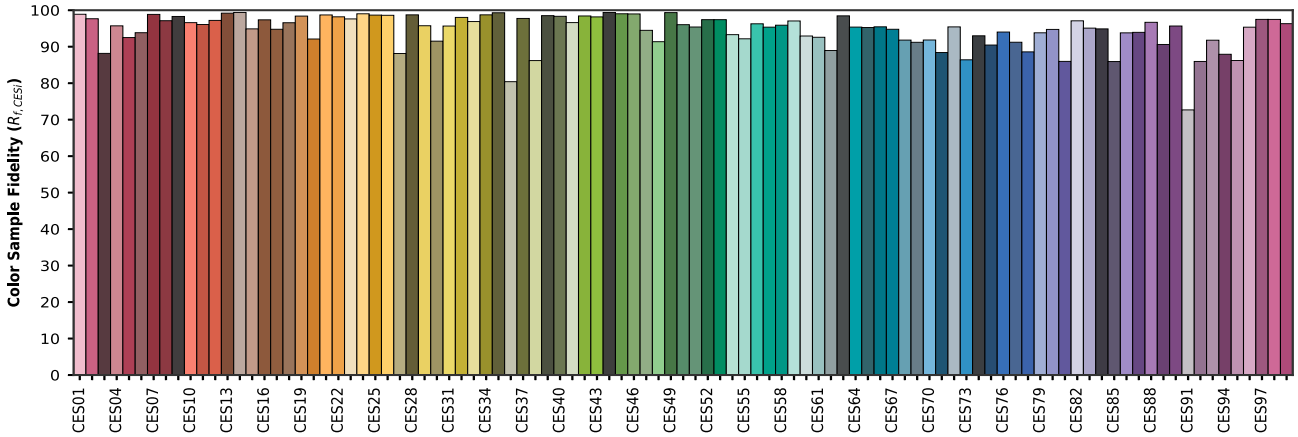



| | |
|---|---|
| $x$ | **0.3201** |
| $y$ | **0.3324** |
| $u'$ | **0.2017** |
| $v'$ | **0.4712** |

**CIE 13.31-1995**
**(CRI)**
$R_a$ **98**
$R_9$ **98**

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:6500K Quality Mode





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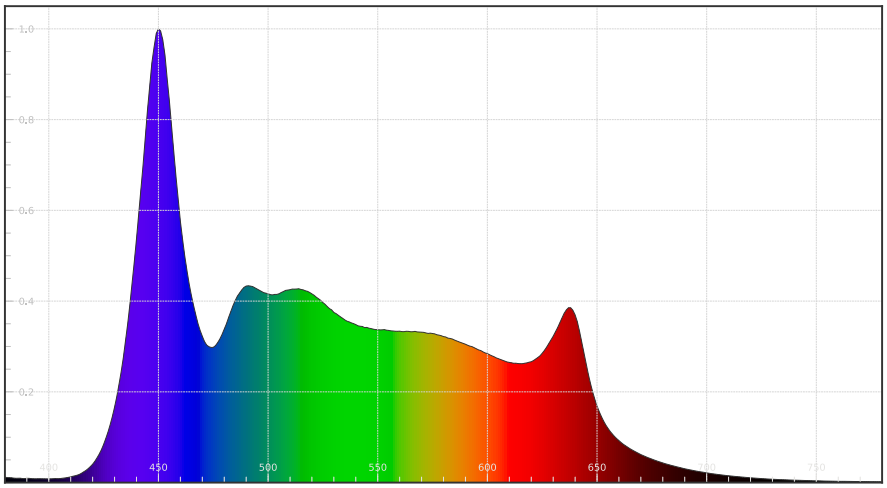
# OPUS SP6FC

## CCT-10000K Quality Mode – Colorimetric Report

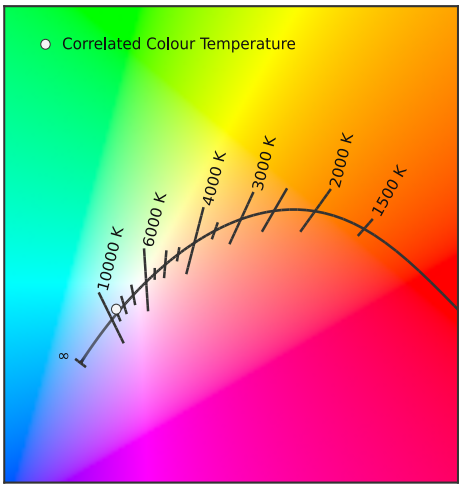
### Colorimetric Characteristics

| | | | | | |
|---|---|---|---|---|---|
| Correlated Colour Temperature [K] | **CCT** | 8931 | Luminous Flux [lm] | **Lum Flux** | 9000 |
| Colour Deviation from Black | **$D_{uv}$** | 0.0018 | Colour Rendering Index | **CRI Ra** | 98 |
| Colour Coordinate CIE 1931 | **x** | 0.2865 | Red Component | **CRI R9** | 97 |
| Colour Coordinate CIE 1931 | **y** | 0.2984 | Colour Fidelity | **TM30 $R_f$** | 93 |
| Colour Coordinate CIE 1976 | **u'** | 0.1907 | Colour Gamut | **TM30 $R_g$** | 100 |
| Colour Coordinate CIE 1976 | **v'** | 0.4470 | Television Lighting Consistency Index | **TLCI** | 95 |
| Spectral Similarity Index | **SSI[CIE D8931]** | 64 | | | |

### CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)

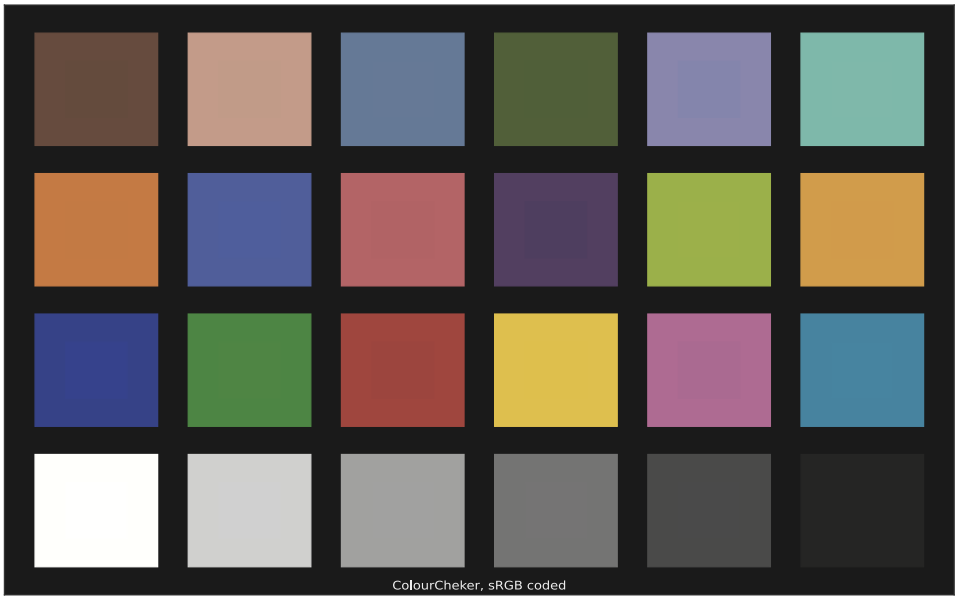



### Colour Temperature

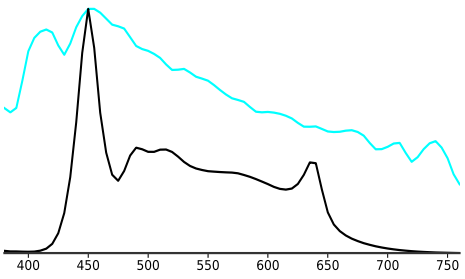



### Television Lighting Consistency Index-2012

CCT = D8931 ( 0.3 ) TLCI-2012 : 95 (D8931)




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




Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:10000K Quality Mode

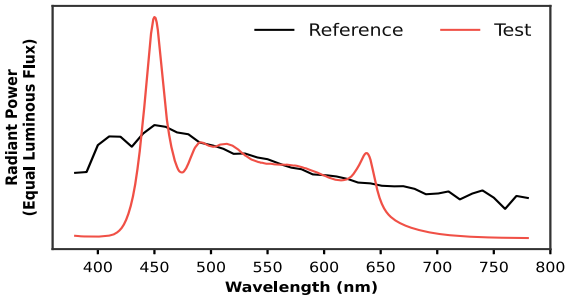


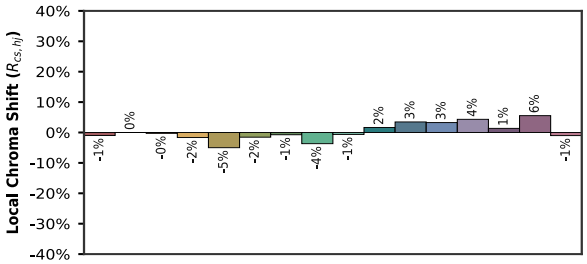


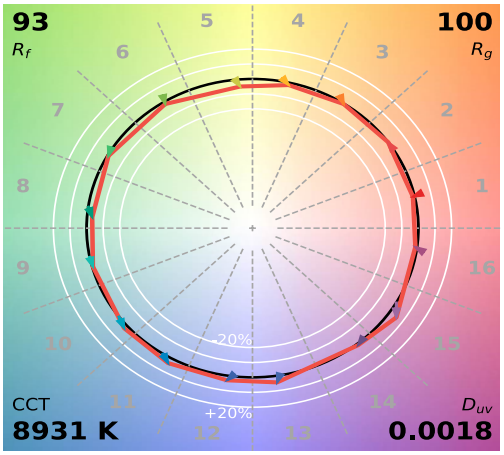
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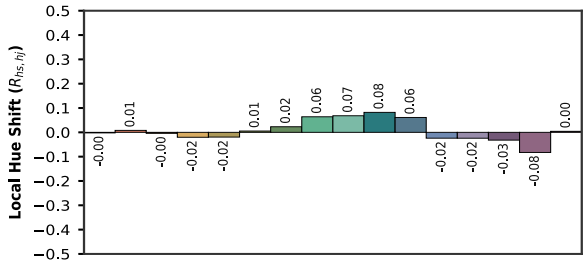
## CCT-10000K Quality Mode – Colorimetric Report

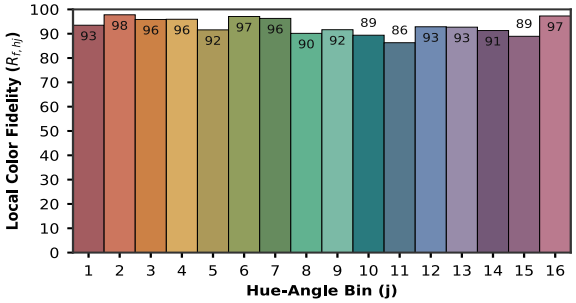
### IES TM-30-18 Colour Rendition Report

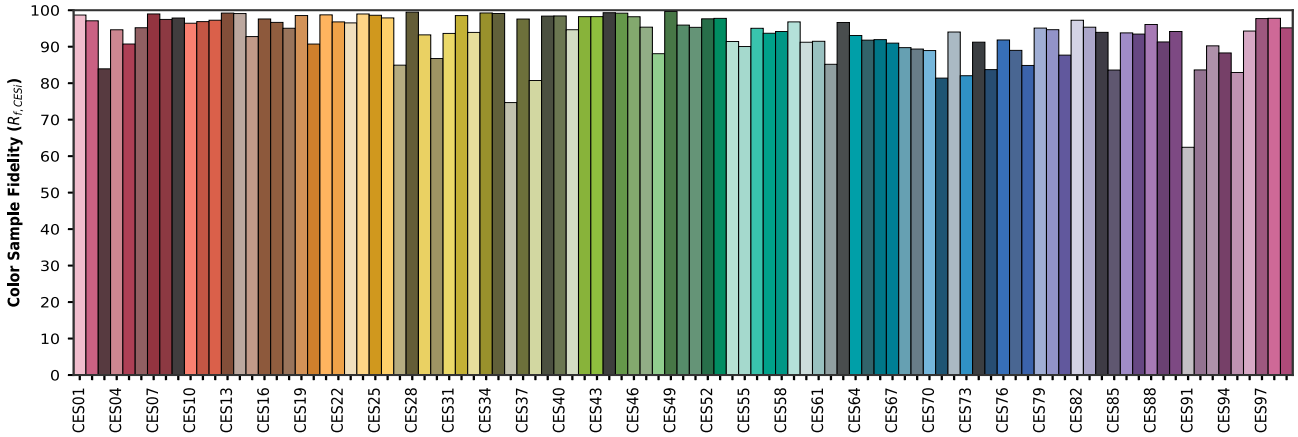



| | |
|---|---|
| $x$ | **0.2865** |
| $y$ | **0.2984** |
| $u'$ | **0.1907** |
| $v'$ | **0.4470** |

**CIE 13.31-1995**
**(CRI)**
$R_a$ **98**
$R_9$ **97**

Fixture Settings: DMX mode: 1, FANS: Auto; DIMMER CURVE: Linear; SHUTTER: Open; DIMMER: Open; CCT:10000K Quality Mode





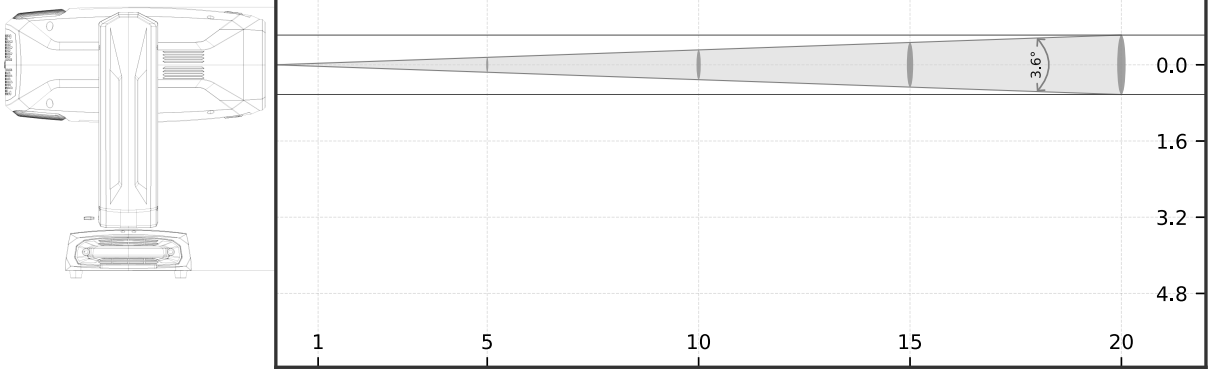
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# OPUS SP6FC

## PC-Lens Narrow – Photometric Report

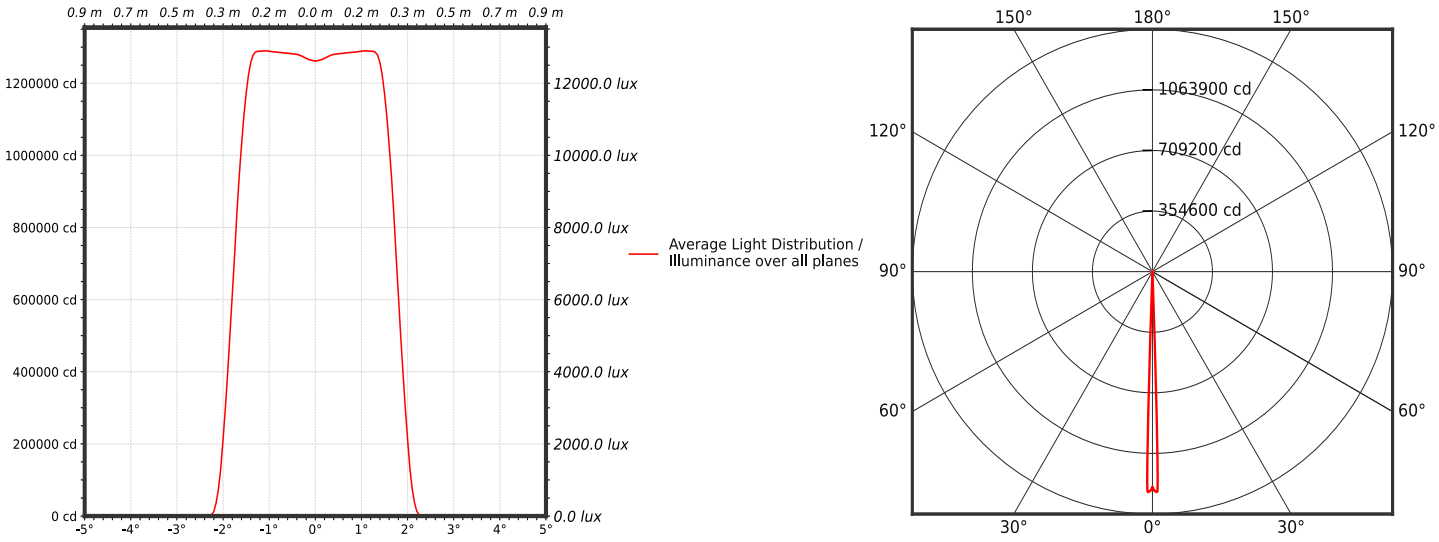
| Beam Angle [°] | Field Angle [°] | Luminous flux [lm] | Power [W] | Luminous Efficacy [lm/W] |
|---|---|---|---|---|
| 3.6 | 4.1 | 5400 | 54 | 100.2 |

### Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])




| Distance [m] | 1 | 5 | 10 | 15 | 20 |
|---|---|---|---|---|---|
| Illuminance [lx] | 1261742 | 50470 | 12617 | 5608 | 3154 |
| Diameter [m] | 0.06 | 0.31 | 0.62 | 0.94 | 1.25 |

### Light Distribution Diagrams / Illuminance




Fixture Settings: FANS: Auto; DIMMER CURVE: Square; SHUTTER: Open; DIMMER: Open; Zoom000, Focus128 Brightness Mode





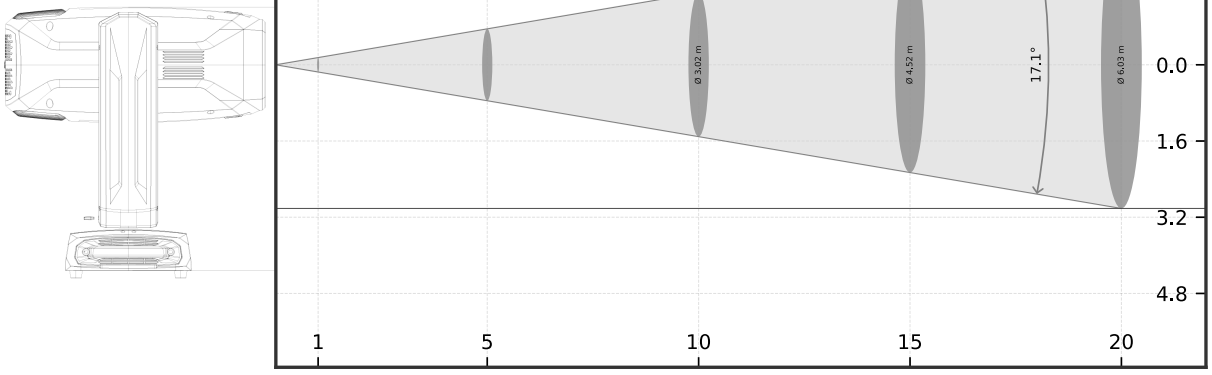
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# OPUS SP6FC

## PC-Lens Mid – Photometric Report

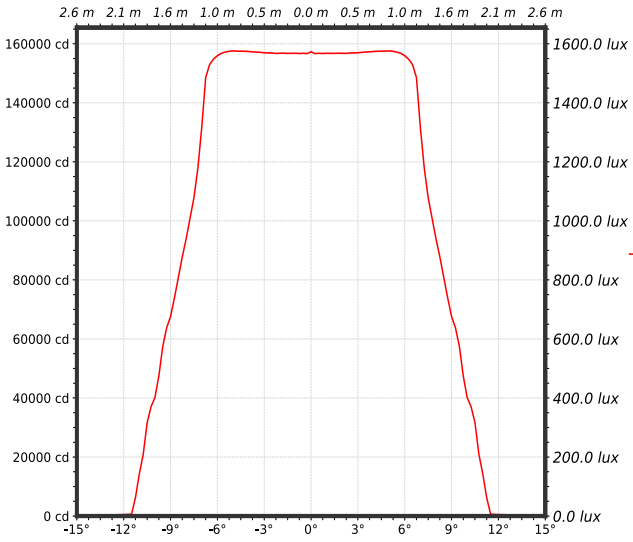
| Beam Angle [°] | Field Angle [°] | Luminous flux [lm] | Power [W] | Luminous Efficacy [lm/W] |
|---|---|---|---|---|
| 17.1 | 21.9 | 11800 | 43 | 276.5 |

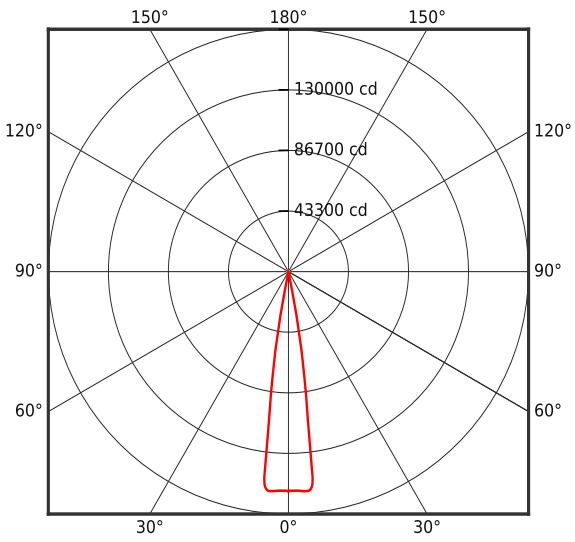
### Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])




| Distance [m] | 1 | 5 | 10 | 15 | 20 |
|---|---|---|---|---|---|
| Illuminance [lx] | 157253 | 6290 | 1573 | 699 | 393 |
| Diameter [m] | 0.30 | 1.51 | 3.02 | 4.52 | 6.03 |

### Light Distribution Diagrams / Illuminance




Fixture Settings: FANS: Auto; DIMMER CURVE: Square; SHUTTER: Open; DIMMER: Open; Zoom128, Focus128 Brightness Mode





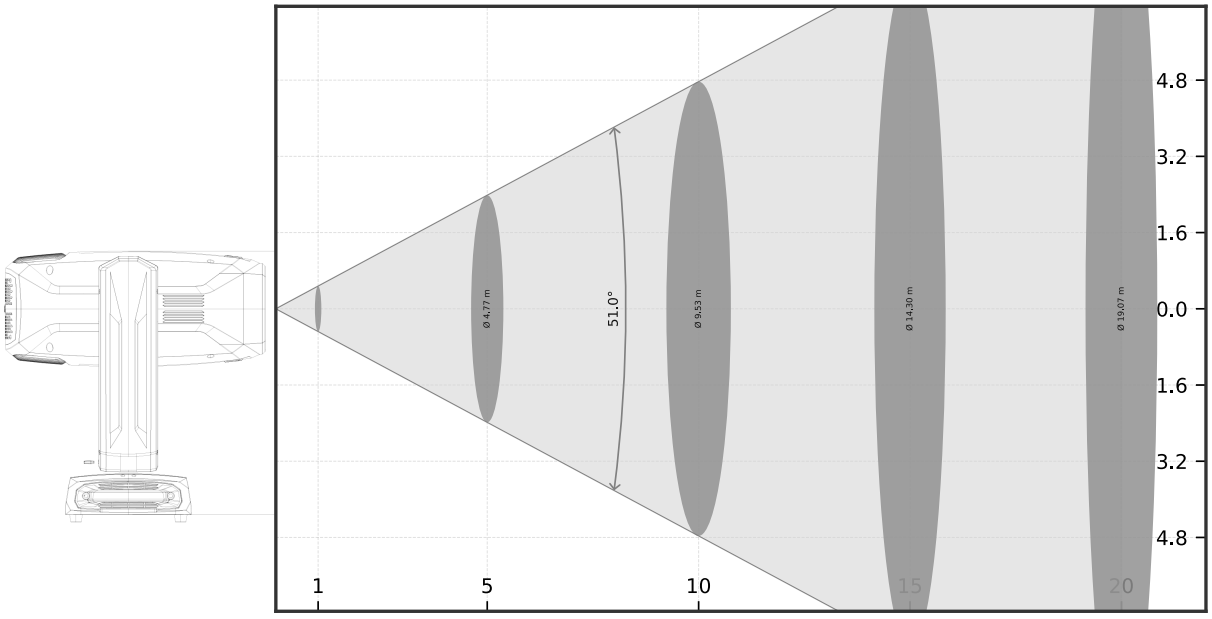
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# OPUS SP6FC

**PC-Lens Wide – Photometric Report**

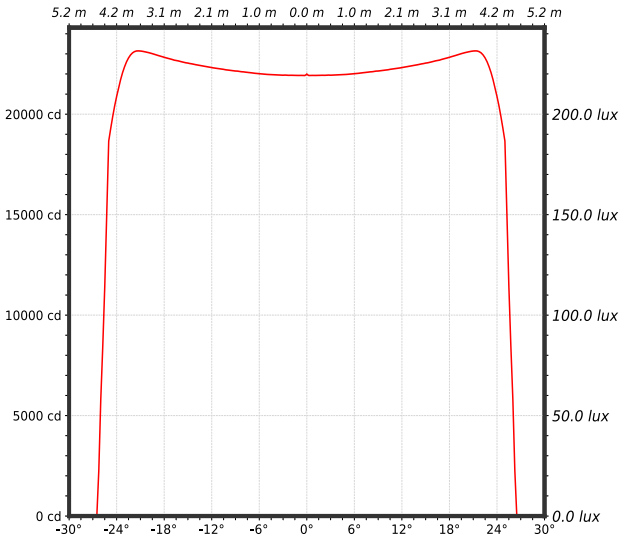
| Beam Angle [°] | Field Angle [°] | Luminous flux [lm] | Power [W] | Luminous Efficacy [lm/W] |
|---|---|---|---|---|
| 51.0 | 52.5 | 13800 | 54 | 256.9 |

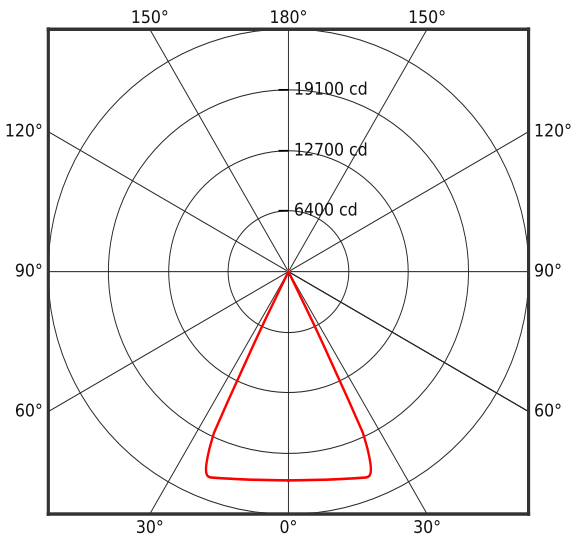
**Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])**




| Distance [m] | 1 | 5 | 10 | 15 | 20 |
|---|---|---|---|---|---|
| Illuminance [lx] | 21983 | 879 | 220 | 98 | 55 |
| Diameter [m] | 0.95 | 4.77 | 9.53 | 14.30 | 19.07 |

**Light Distribution Diagrams / Illuminance**




Fixture Settings: FANS: Auto; DIMMER CURVE: Square; SHUTTER: Open; DIMMER: Open; Zoom255, Focus128 Brightness Mode





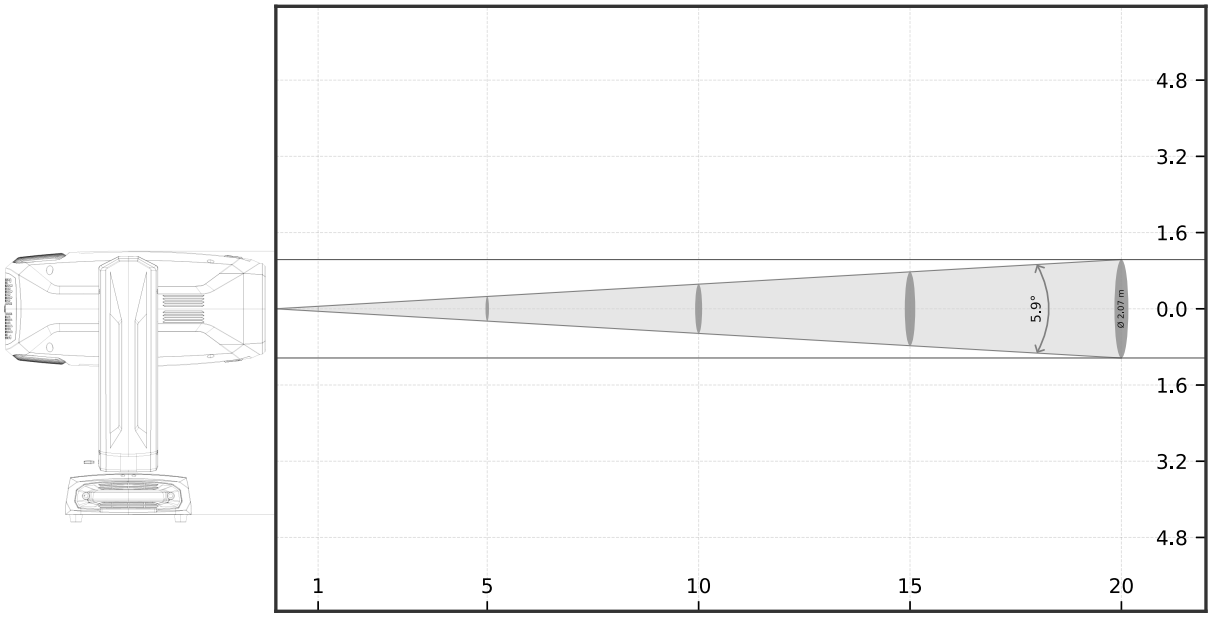
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# OPUS SP6FC

**Fresnel-Lens Narrow – Photometric Report**

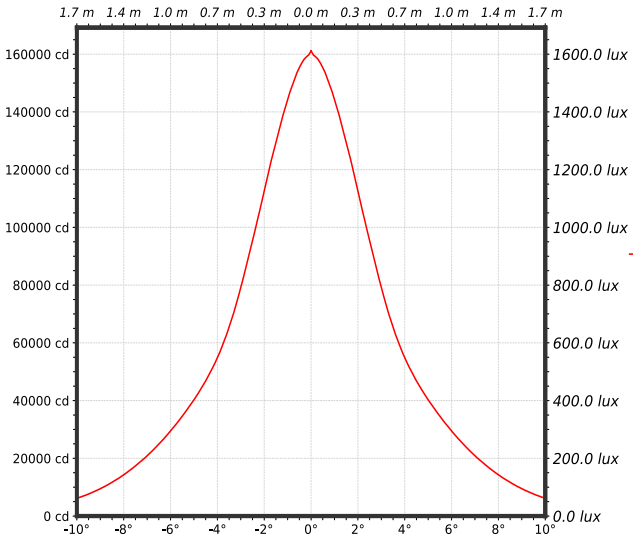
| Beam Angle [°] | Field Angle [°] | Luminous flux [lm] | Power [W] | Luminous Efficacy [lm/W] |
|---|---|---|---|---|
| 5.9 | 15.4 | 3600 | 52 | 69.3 |

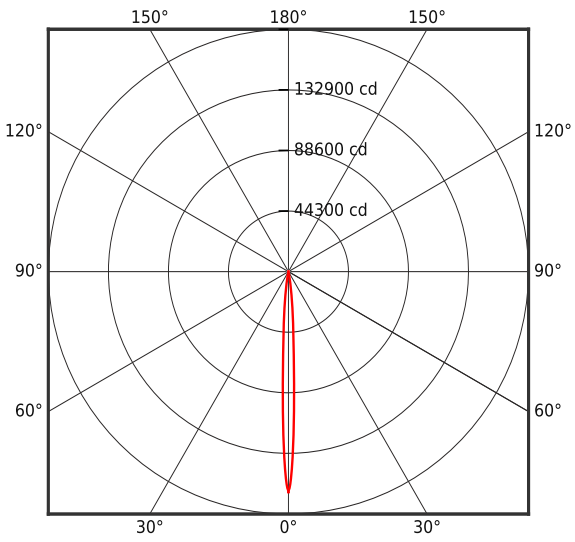
**Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])**




| Distance [m] | 1 | 5 | 10 | 15 | 20 |
|---|---|---|---|---|---|
| Illuminance [lx] | 161136 | 6445 | 1611 | 716 | 403 |
| Diameter [m] | 0.10 | 0.52 | 1.03 | 1.55 | 2.07 |

**Light Distribution Diagrams / Illuminance**




Fixture Settings: FANS: Auto; DIMMER CURVE: Square; SHUTTER: Open; DIMMER: Open; Zoom000, Focus128 Brightness Mode





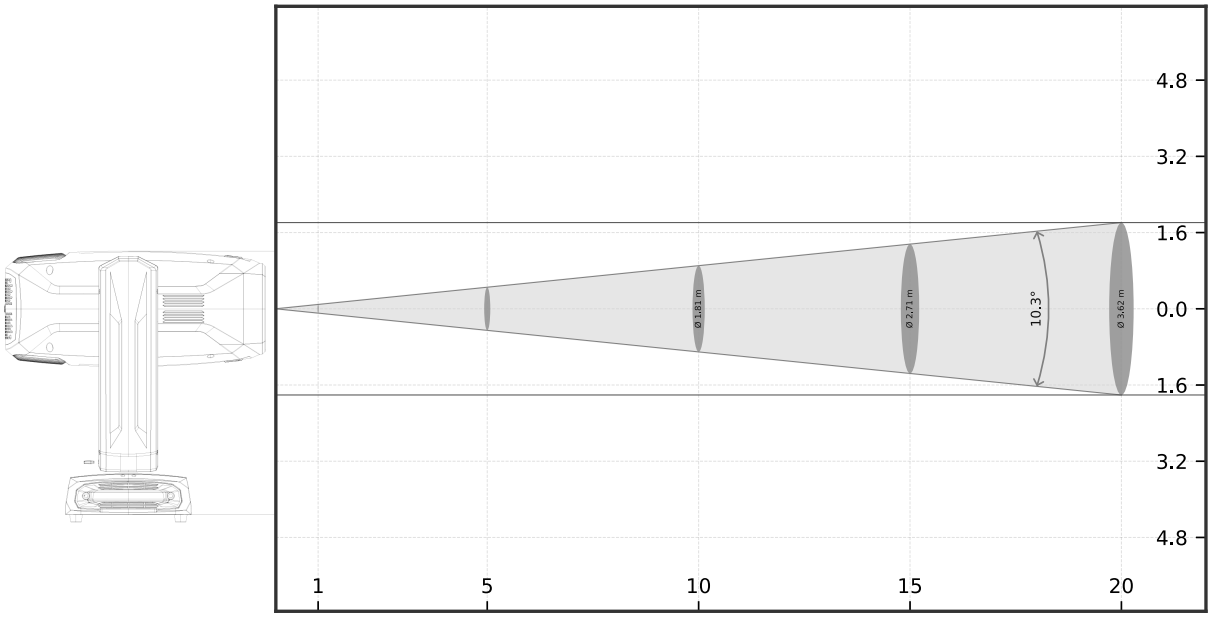
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# OPUS SP6FC

## Fresnel-Lens Mid – Photometric Report

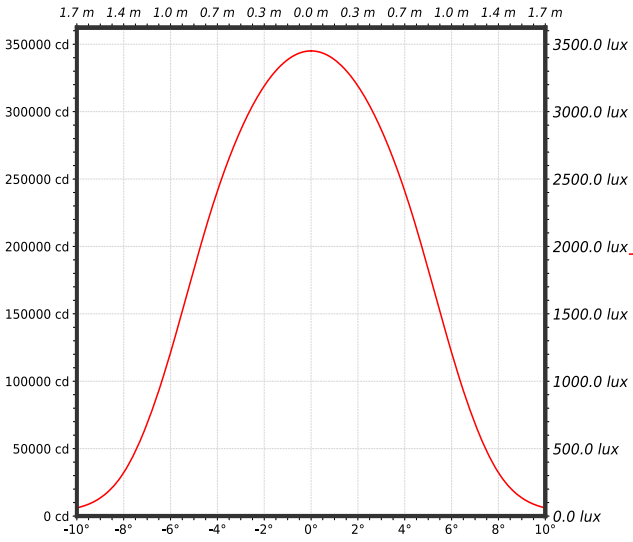
| Beam Angle [°] | Field Angle [°] | Luminous flux [lm] | Power [W] | Luminous Efficacy [lm/W] |
|---|---|---|---|---|
| 10.3 | 15.8 | 11050 | 52 | 212.1 |

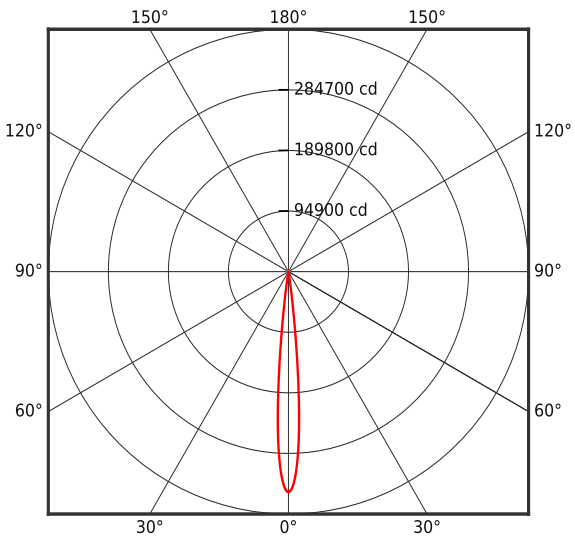
### Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])




| Distance [m] | 1 | 5 | 10 | 15 | 20 |
|---|---|---|---|---|---|
| Illuminance [lx] | 345056 | 13802 | 3451 | 1534 | 863 |
| Diameter [m] | 0.18 | 0.90 | 1.81 | 2.71 | 3.62 |

### Light Distribution Diagrams / Illuminance




Fixture Settings: FANS: Auto; DIMMER CURVE: Square; SHUTTER: Open; DIMMER: Open; Zoom128, Focus128 Brightness Mode





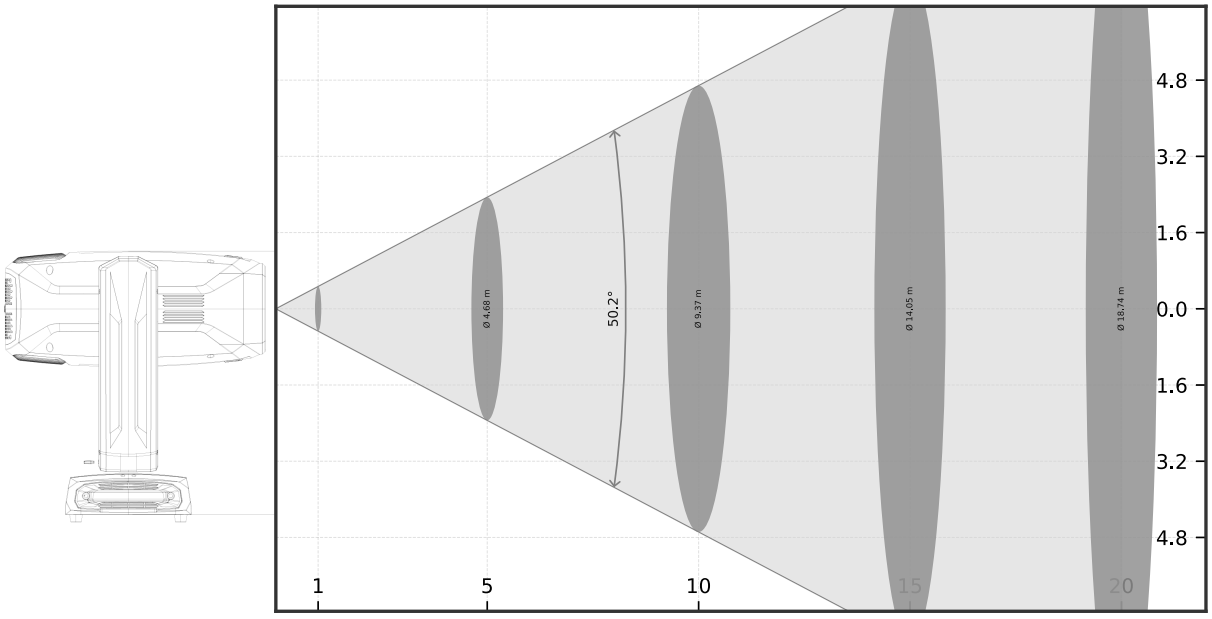
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# OPUS SP6FC

## Fresnel-Lens Wide – Photometric Report

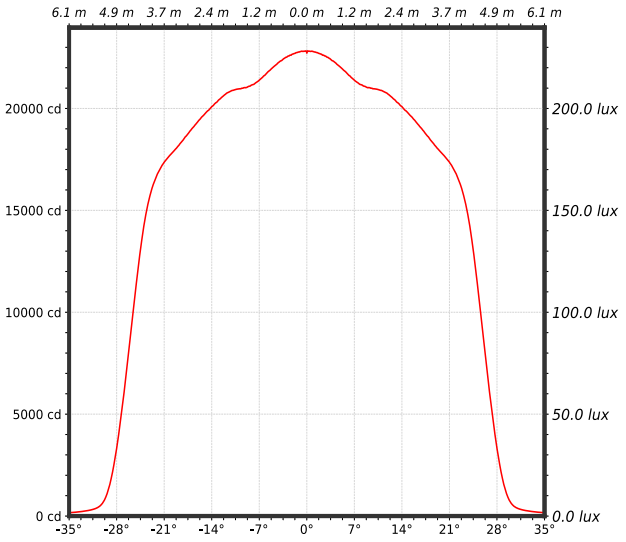
| Beam Angle [°] | Field Angle [°] | Luminous flux [lm] | Power [W] | Luminous Efficacy [lm/W] |
|---|---|---|---|---|
| 50.2 | 57.1 | 12300 | 52 | 235.9 |

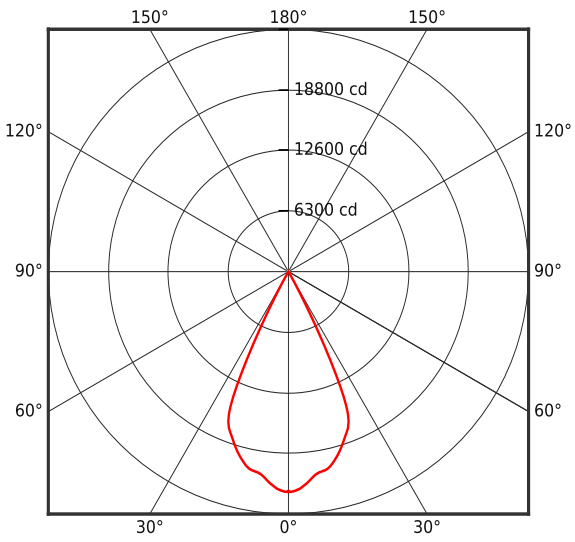
### Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])




| Distance [m] | 1 | 5 | 10 | 15 | 20 |
|---|---|---|---|---|---|
| Illuminance [lx] | 22738 | 910 | 227 | 101 | 57 |
| Diameter [m] | 0.94 | 4.68 | 9.37 | 14.05 | 18.74 |

### Light Distribution Diagrams / Illuminance




Fixture Settings: FANS: Auto; DIMMER CURVE: Square; SHUTTER: Open; DIMMER: Open; Zoom255, Focus128 Brightness Mode





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