

# Photometric Report

41430 - B402 Furion, , Ordercode



## REPORT SUMMARY

### Output

Total Lumens: 33344 Lumen  
Peak Intensity: 47552514 candela  
Illuminance @ 5m: 1844589 lx  
CRI: 76,2  
CCT: 6858 K

### Optical

Beam Angle (50%) 0,6 °  
Field Angle (10%) 1,7 °  
Cut-off Angle (2,5%) 2,4 °

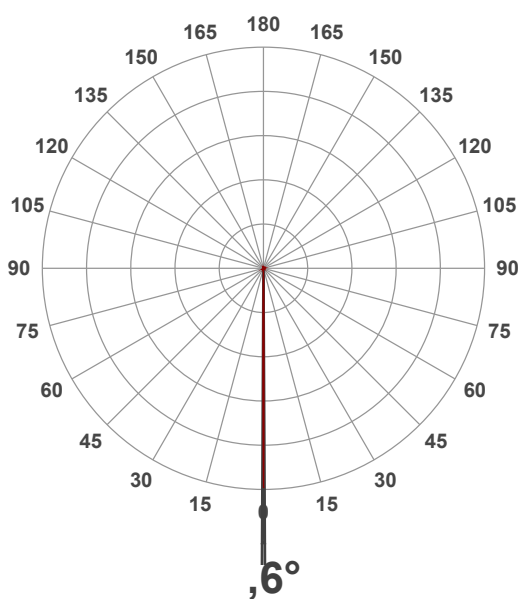
### Conditions:

Power Supply: 222 V  
Power: 401 W  
Current: 1,85 A  
Power Factor: 0,98

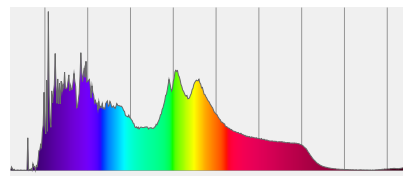


## MEASUREMENTS

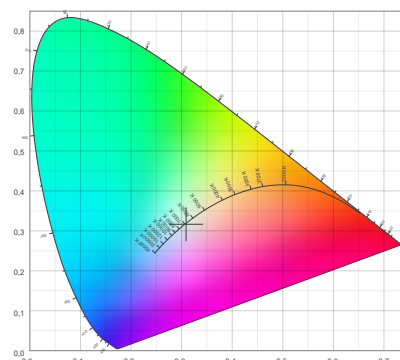
Angular Beam Distribution



Spectral Distribution



CIE 1931

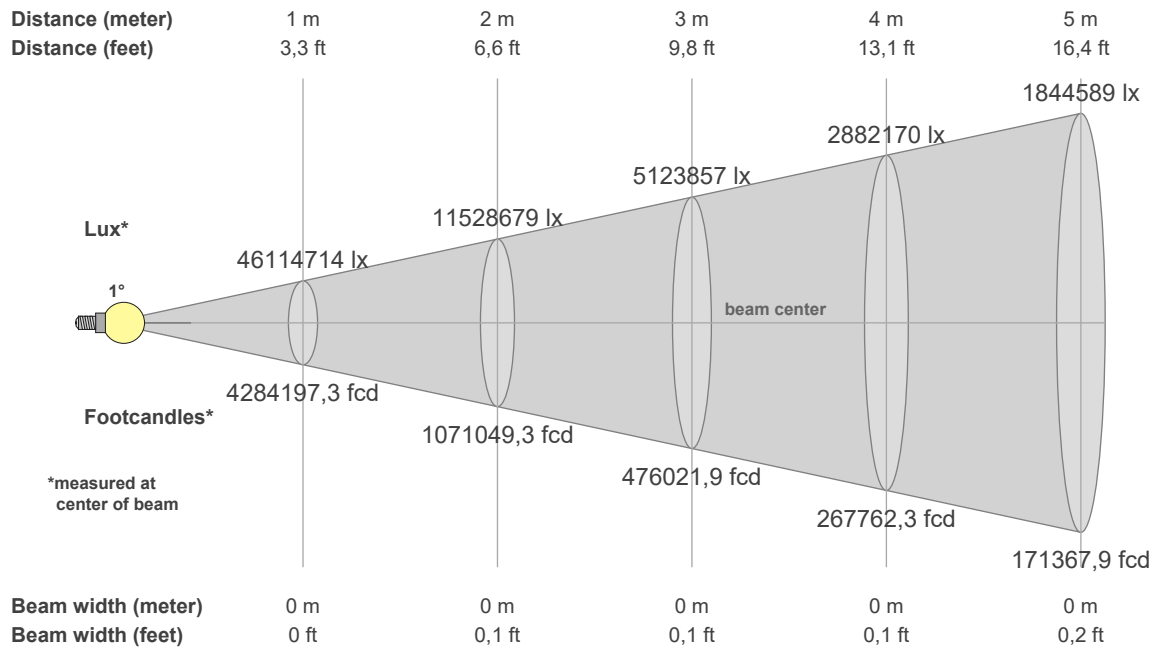


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## BEAM DETAILS

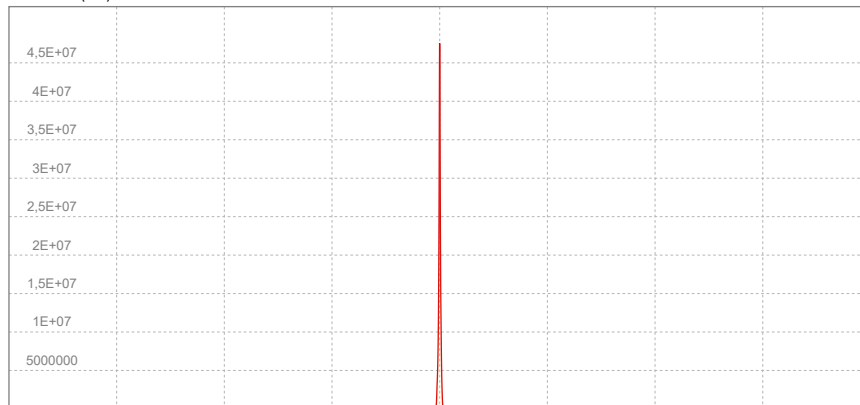


### Beam Illuminances from 1-20m

| 1m            | 2m            | 3m           | 4m           | 5m           | 6m           | 7m          | 8m          | 9m          | 10m       | 11m         | 12m         | 13m         | 14m         | 15m         | 16m         | 17m         | 18m         | 19m         | 20m         |
|---------------|---------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3,3ft         | 6,6ft         | 9,8ft        | 13,1ft       | 16,4ft       | 19,7ft       | 23ft        | 26,2ft      | 29,5ft      | 32,8ft    | 36,1ft      | 39,4ft      | 42,7ft      | 45,9ft      | 49,2ft      | 52,5ft      | 55,8ft      | 59,1ft      | 62,3ft      | 65,6ft      |
| 46114714lx    | 11528679lx    | 5123857lx    | 2882170lx    | 1844589lx    | 1280964lx    | 941117lx    | 720542lx    | 569317lx    | 461147lx  | 381113lx    | 320241lx    | 272868lx    | 235279lx    | 204954lx    | 180136lx    | 159566lx    | 142329lx    | 127742lx    | 115287lx    |
| 4284197,3 fcd | 1071049,3 fcd | 476021,9 fcd | 267762,3 fcd | 171367,9 fcd | 119005,5 fcd | 87432,6 fcd | 66940,6 fcd | 52891,3 fcd | 42842 fcd | 35406,6 fcd | 29751,4 fcd | 25350,3 fcd | 21858,1 fcd | 19040,9 fcd | 16735,1 fcd | 14824,2 fcd | 13222,8 fcd | 11867,6 fcd | 10710,5 fcd |

Candela (cd)

### Linear Distribution Diagram



Beam Angle (50%): 0,6 °

Field Angle (10%): 1,7 °

Cutoff Angle (3%): 2,4 °

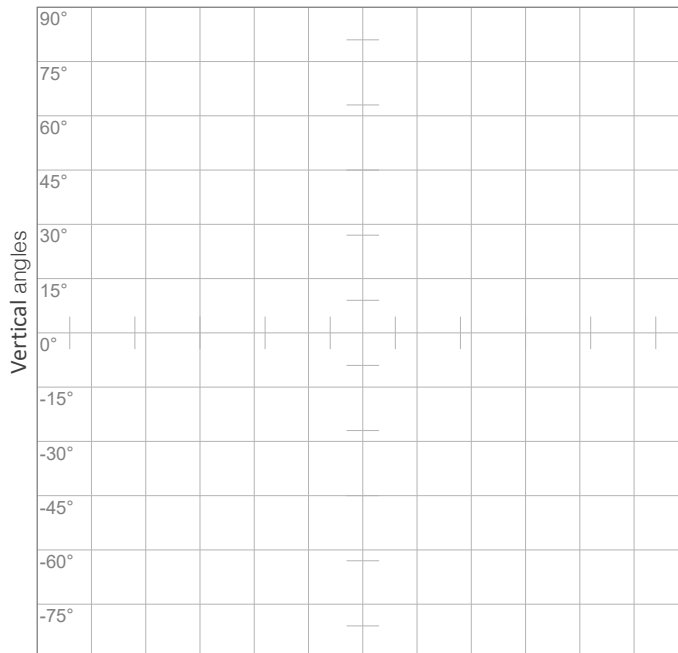
Angle °

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## POLAR DIAGRAMS



### ISO candela diagram

|     |             |
|-----|-------------|
| 10% | 4611471 cd  |
| 20% | 9222943 cd  |
| 30% | 13834414 cd |
| 40% | 18445886 cd |
| 50% | 23057357 cd |
| 60% | 27668829 cd |
| 70% | 32280300 cd |

#### Conditions:

Number of c-planes: 2

Candela at center: 46114714 cd



### ISO lux diagram

|     |          |
|-----|----------|
| 3%  | 13,8K lx |
| 5%  | 23,1K lx |
| 10% | 46,1K lx |
| 30% | 138K lx  |
| 50% | 231K lx  |

#### Conditions:

Number of c-planes: 2

Lux at center: 461K lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters (33 feet)

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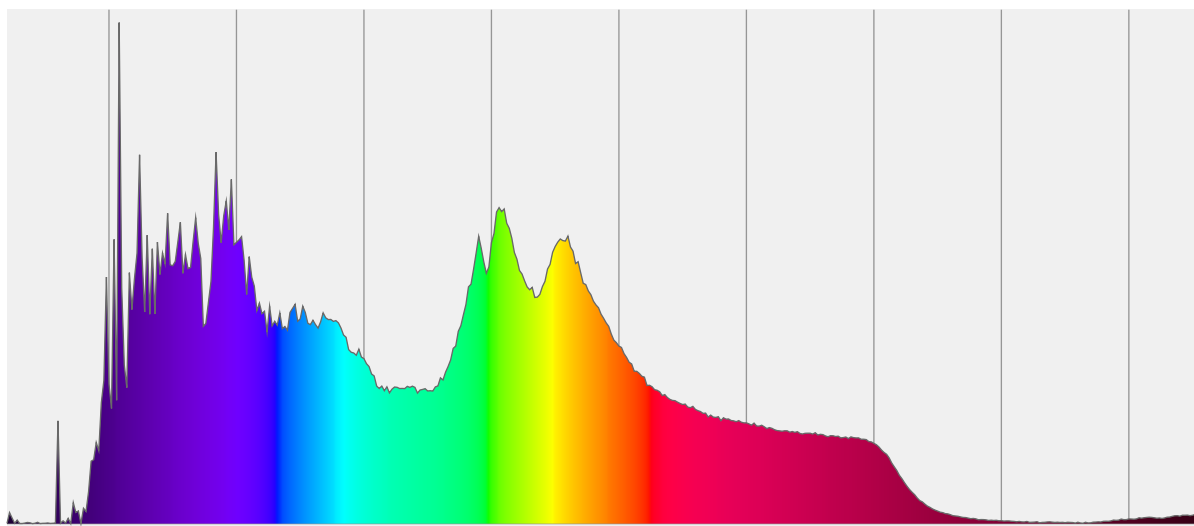
## CHROMATICITY REPORT

Total Lumens: 33344 lm  
Peak Intensity: 47552514 cd  
Fixture Efficiency: 83 Lumen/Watt

Color Temperature: 6858 K  
CRI: 76,2  
CRI R9: -13,1  
CQS: 71,7  
TM-30 Rf: 78,3  
TM-30 Rg: 91,6  
 $\Delta uv$ : -0,0045  
1<sup>st</sup> Dominant Wavelength: 404 nm  
2<sup>nd</sup> Dominant Wavelength: 442 nm



Spectral Distribution



### Color

**6858 K**  
CIE 1931 Coordinates:  
X: 0,309 Y: 0,316

### Color Temperature

6858 K

### CRI

76,2

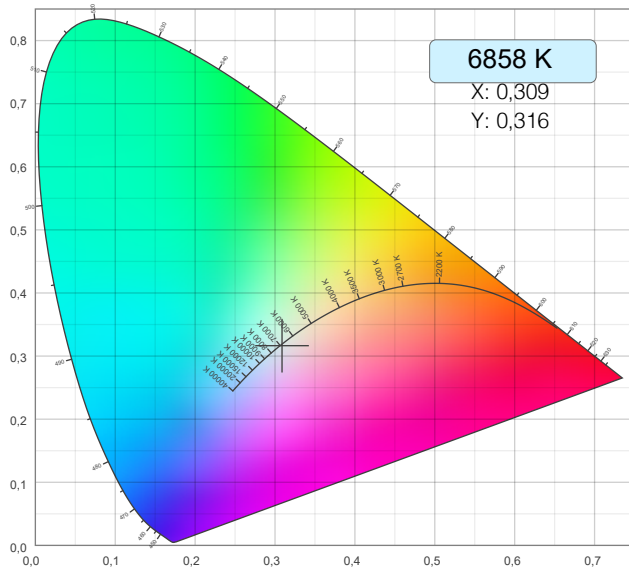
# Photometric Report



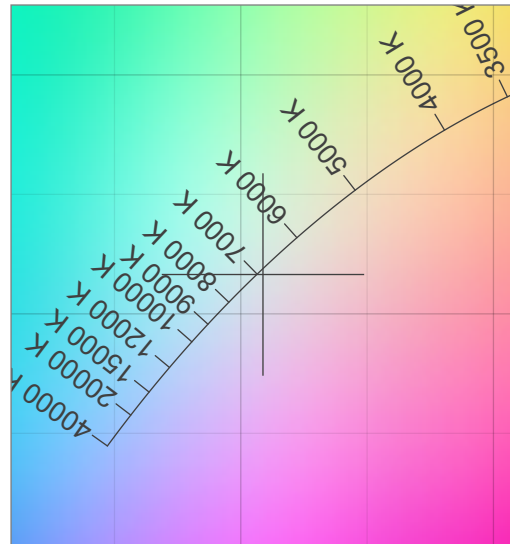
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## CHROMATICITY

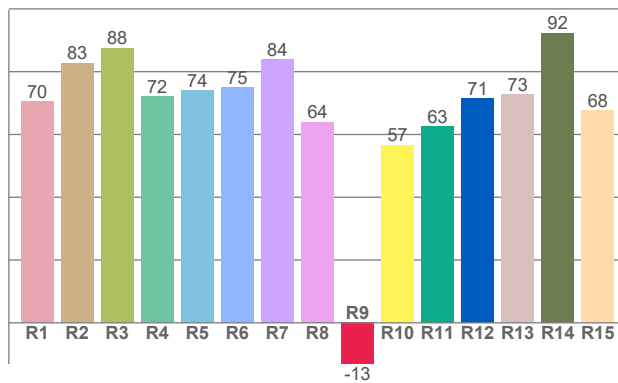
CIE 1931



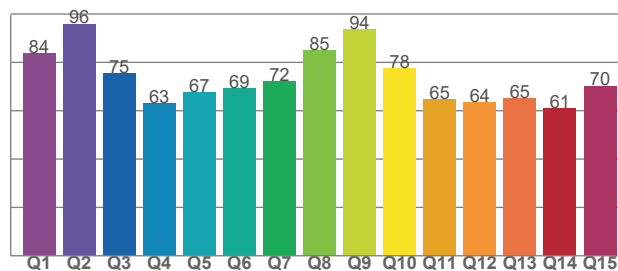
CIE 1931 - Detail



CRI: 76,2 (R1-R8)



CQSI: 71,7



# Photometric Report



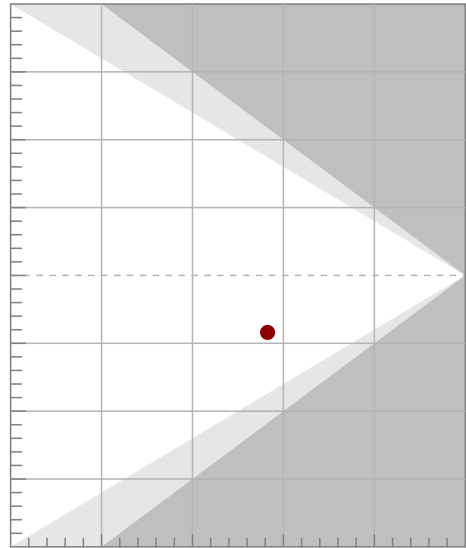
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## TM-30-18 DETAILS

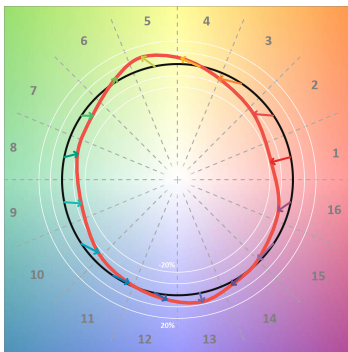
**Rf 78,3**  
Fidelity index Rf

**Rg 91,6**  
Gamut index Rg

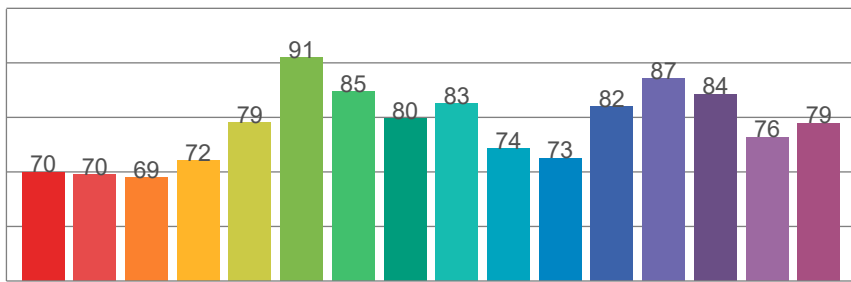
| Hue Bin | Rf | Shifts (%) |      |
|---------|----|------------|------|
|         |    | Chroma     | Hue  |
| 1       | 70 | -17%       | -1%  |
| 2       | 70 | -13%       | 11%  |
| 3       | 69 | -7%        | 19%  |
| 4       | 72 | 4%         | 17%  |
| 5       | 79 | 10%        | 9%   |
| 6       | 91 | 3%         | -5%  |
| 7       | 85 | -8%        | -5%  |
| 8       | 80 | -11%       | -5%  |
| 9       | 83 | -14%       | 4%   |
| 10      | 74 | -8%        | 14%  |
| 11      | 73 | -2%        | 15%  |
| 12      | 82 | 4%         | 11%  |
| 13      | 87 | 8%         | 1%   |
| 14      | 84 | 2%         | -11% |
| 15      | 76 | -3%        | -18% |
| 16      | 79 | -9%        | -9%  |



TM30-18 Color Vectors



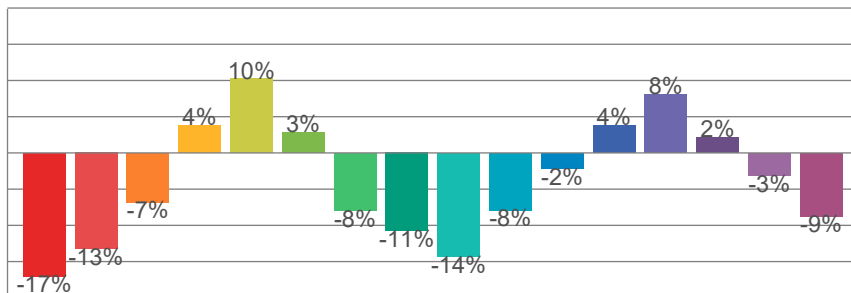
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

