



Dernière mise à jour:  
12/12/2023

# ReLite LED Kit for Robert Juliat 310 HPC Photometric Report

**ReLite LED Kit for Robert Juliat 310 HPC - Minimum Zoom - 3.200K**

Mesures à 3,5 mètres

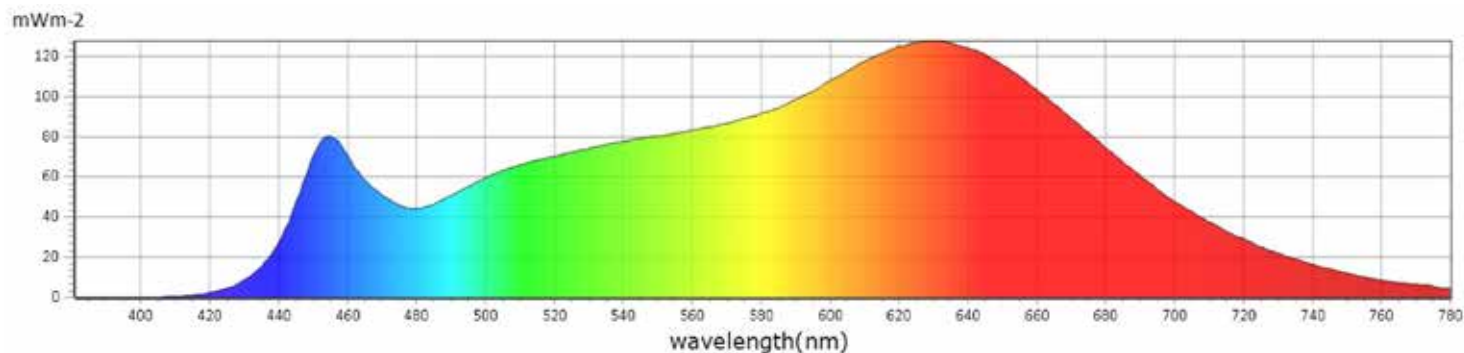
## General

|           |        |
|-----------|--------|
| ● CCT     | 3274 K |
| ● x       | 0,4143 |
| ● y       | 0,3868 |
| ● LambdaD | 583 nm |
| ● LambdaP | 629 nm |

## Measurements

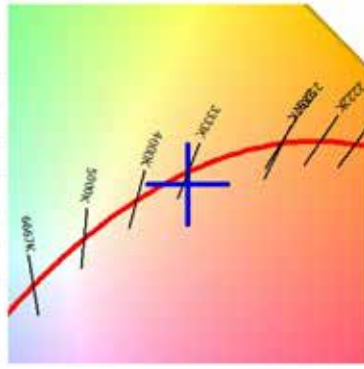
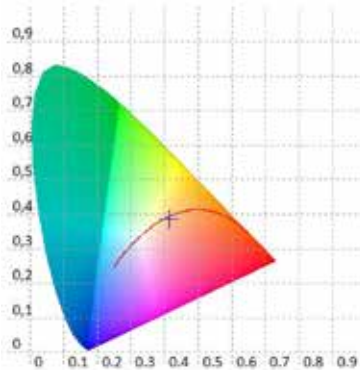
|                  |               |                    |                  |                                                    |             |           |            |
|------------------|---------------|--------------------|------------------|----------------------------------------------------|-------------|-----------|------------|
| CCT : 3274 K     | x10 : 0,4180  | delta-x : -0,0044  | LambdaD : 583 nm | PPFD : 106,3 $\mu\text{molm}^{-2}\text{s}^{-1}$    | S/P : 1,64  | R3 : 98,5 | R10 : 93,4 |
| LUX : 6332 lx    | y10 : 0,3878  | delta-y : -0,0102  | LambdaP : 629 nm | PFD : 115,6 $\mu\text{molm}^{-2}\text{s}^{-1}$     | IRR : 23,43 | R4 : 97,6 | R11 : 94,5 |
| I-Time : 2000 us | u'10 : 0,2452 | delta-u' : 0,0015  | Purity : 40,50%  | PFD-B : 14,07 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CQS : 96,4  | R5 : 95,9 | R12 : 84,9 |
| x : 0,4143       | v'10 : 0,5119 | delta-v' : -0,0049 | fc : 588,5       | PFD-G : 37,82 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CRI : 96,3  | R6 : 93,0 | R13 : 95,5 |
| y : 0,3868       | X : 6782,91   | Duv : -0,0036      | Rf : 94,1        | PFD-R : 54,44 $\mu\text{molm}^{-2}\text{s}^{-1}$   | ILCI : 98,0 | R7 : 96,0 | R14 : 98,9 |
| u' : 0,2433      | Y : 6331,92   | MEL : 4239 lx      | Rg : 100,9       | PFD-UV : 0,0008 $\mu\text{molm}^{-2}\text{s}^{-1}$ | R1 : 96,1   | R8 : 96,9 | R15 : 97,1 |
| v' : 0,5110      | Z : 3256,54   | LambdaPV : 127,7   | GAI : 70,1       | PFD-FR : 9,318 $\mu\text{molm}^{-2}\text{s}^{-1}$  | R2 : 96,3   | R9 : 96,3 |            |

## Spectrum

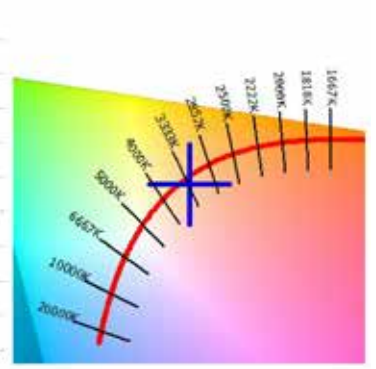
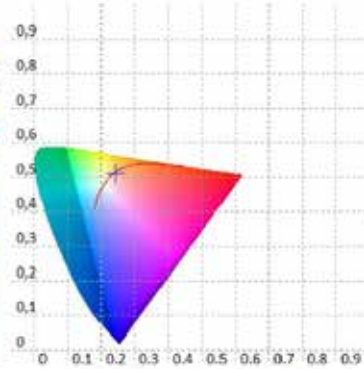


## ReLite LED Kit for Robert Juliat 310 HPC - Minimum Zoom - 3.200K

CIE 1931



CIE 1976



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,1 | 96,3 | 98,5 | 97,6 | 95,9 | 93,0 | 96,0 | 96,9 | 96,3 | 93,4 | 94,5 | 84,9 | 95,5 | 98,9 | 97,1 |

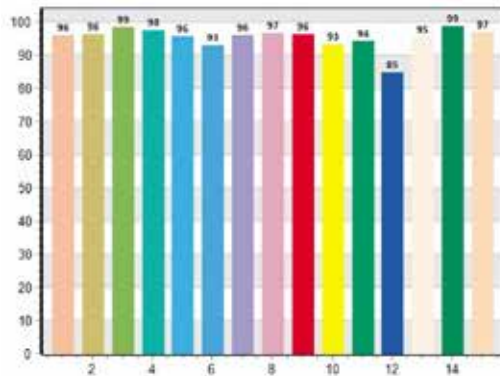
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,9 | 96,8 | 95,6 | 93,9 | 93,5 | 97,2 | 92,3 | 96,3 | 92,4 | 92,1 | 91,3 | 90,4 | 92,7 | 91,4 | 90,9 | 90,3 |

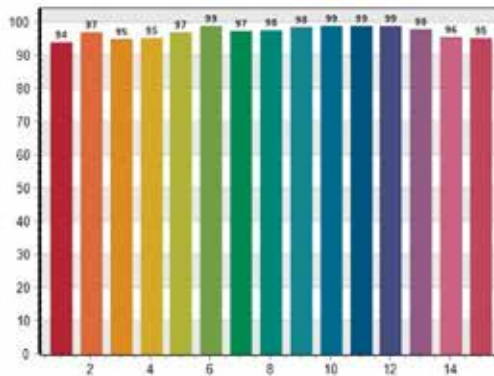
CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,8 | 96,9 | 94,7 | 95,3 | 97,0 | 98,7 | 97,3 | 97,7 | 98,4 | 98,8 | 98,7 | 98,7 | 97,9 | 95,6 | 95,3 |

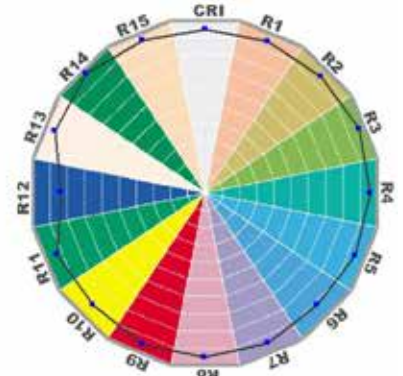
CRI: 96,29



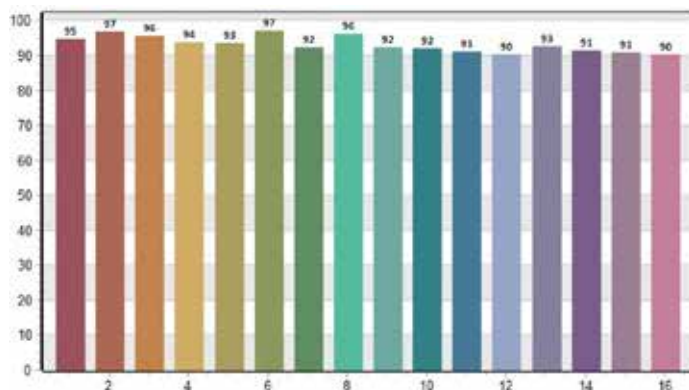
CQS: 96,40



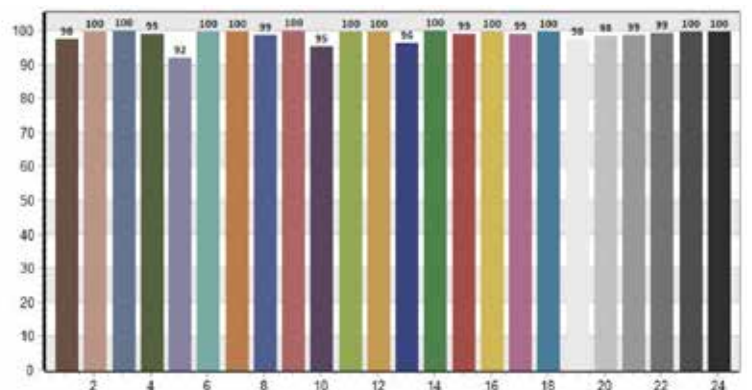
CRI-2



TM30: 94,14



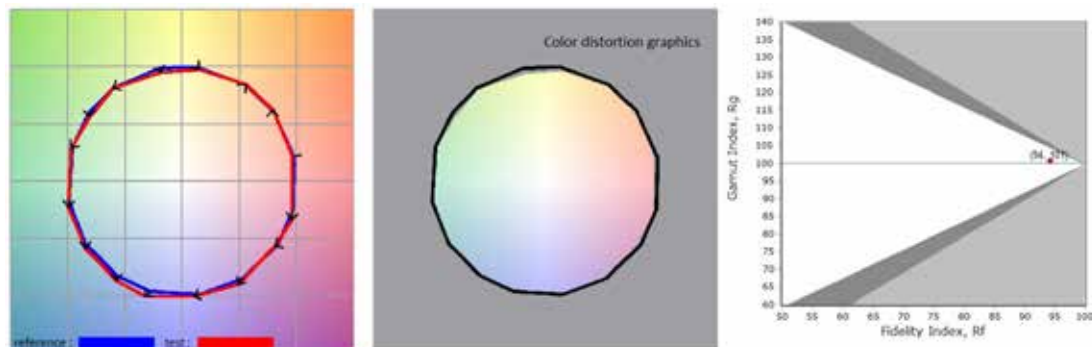
TLCI: 98,02





## ReLite LED Kit for Robert Juliat 310 HPC - Minimum Zoom - 3.200K

## General Color Rendition

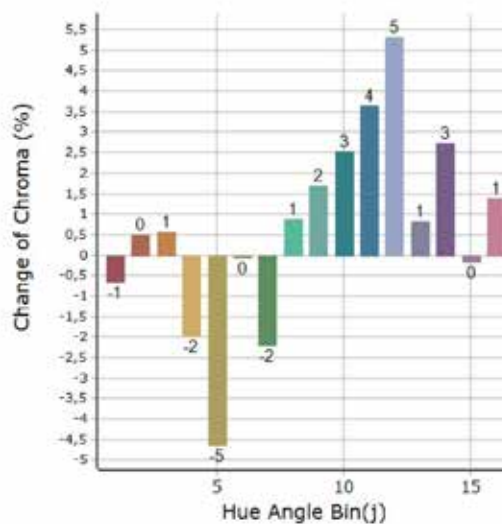
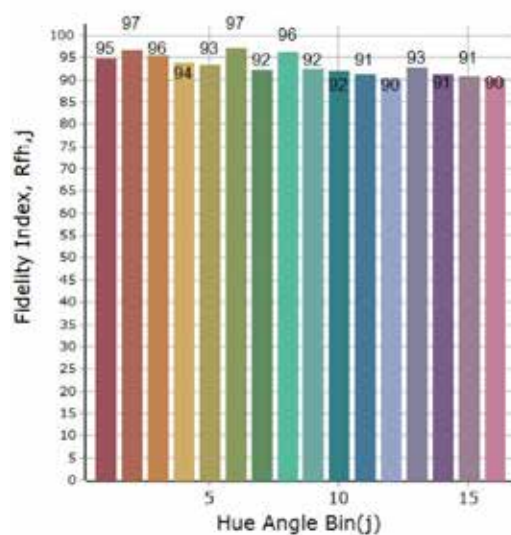
**Rf 94,1**

Fidelity index Rf

**Rg 100,9**

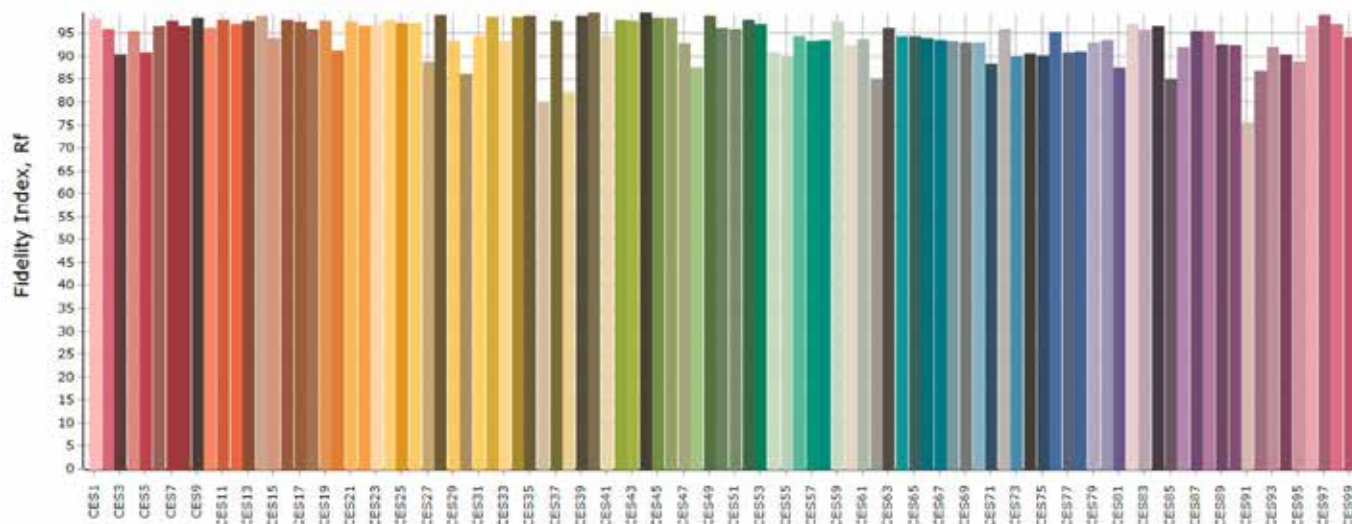
Gamut index Rg

## Color Rendition by Hue



| Hue Bin | Graphic shifts (%) |        |       |
|---------|--------------------|--------|-------|
|         | Rf                 | Chroma | Hue   |
| 1       | 94,9               | -0,7%  | 1,0%  |
| 2       | 96,8               | 0,5%   | -0,1% |
| 3       | 95,6               | 0,6%   | -0,3% |
| 4       | 93,9               | -2,0%  | -2,4% |
| 5       | 93,5               | -4,6%  | -0,9% |
| 6       | 97,2               | -0,1%  | 1,1%  |
| 7       | 92,3               | -2,2%  | 3,3%  |
| 8       | 96,3               | 0,9%   | 1,9%  |
| 9       | 92,4               | 1,7%   | 4,6%  |
| 10      | 92,1               | 2,5%   | 4,3%  |
| 11      | 91,3               | 3,6%   | 3,0%  |
| 12      | 90,4               | 5,3%   | -1,6% |
| 13      | 92,7               | 0,8%   | -4,8% |
| 14      | 91,4               | 2,7%   | -4,9% |
| 15      | 90,9               | -0,2%  | -2,7% |
| 16      | 90,3               | 1,4%   | -5,4% |

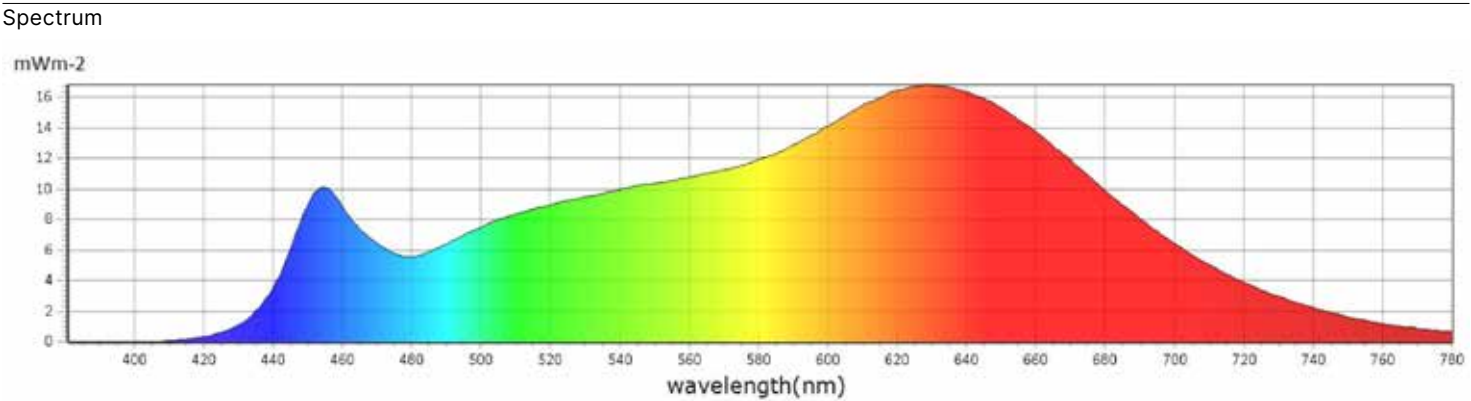
## Color Fidelity by Sample



ReLite LED Kit for Robert Juliat 310 HPC - Maximum Zoom - 3.200K

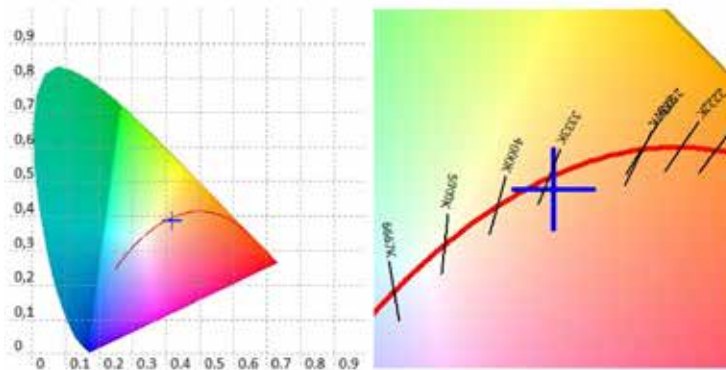
|           |        |
|-----------|--------|
| General   |        |
| ● CCT     | 3206 K |
| ● x       | 0,4179 |
| ● y       | 0,3872 |
| ● LambdaD | 584 nm |
| ● LambdaP | 628 nm |

|                   |               |                    |                  |                                                    |             |           |            |
|-------------------|---------------|--------------------|------------------|----------------------------------------------------|-------------|-----------|------------|
| CCT : 3206 K      | x10 : 0,4215  | delta-x : -0,0051  | LambdaD : 584 nm | PPFD : 13,87 $\mu\text{molm}^{-2}\text{s}^{-1}$    | S/P : 1,62  | R3 : 98,4 | R10 : 93,3 |
| LUX : 821,1 lx    | y10 : 0,3881  | delta-y : -0,0116  | LambdaP : 628 nm | PFD : 15,13 $\mu\text{molm}^{-2}\text{s}^{-1}$     | IRR : 3,056 | R4 : 97,6 | R11 : 94,4 |
| I-Time : 16000 us | u'10 : 0,2474 | delta-u' : 0,0016  | Purity : 41,53%  | PFD-B : 1,782 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CQS : 96,2  | R5 : 96,0 | R12 : 85,3 |
| x : 0,4179        | v'10 : 0,5126 | delta-v' : -0,0055 | fc : 76,31       | PFD-G : 4,885 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CRI : 96,2  | R6 : 92,8 | R13 : 95,5 |
| y : 0,3872        | X : 886,08    | Duv : -0,0040      | Rf : 94,4        | PFD-R : 7,200 $\mu\text{molm}^{-2}\text{s}^{-1}$   | ILCI : 98,0 | R7 : 95,9 | R14 : 99,0 |
| u' : 0,2454       | Y : 821,10    | MEL : 538,6 lx     | Rg : 101,3       | PFD-UV : 0,0002 $\mu\text{molm}^{-2}\text{s}^{-1}$ | R1 : 96,2   | R8 : 96,7 | R15 : 97,3 |
| v' : 0,5117       | Z : 413,21    | LambdaPV : 16,83   | GAI : 69,3       | PFD-FR : 1,258 $\mu\text{molm}^{-2}\text{s}^{-1}$  | R2 : 96,3   | R9 : 95,8 |            |

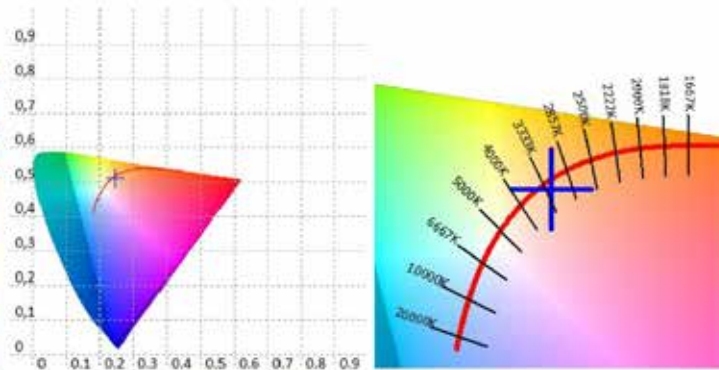


## ReLite LED Kit for Robert Juliat 310 HPC - Maximum Zoom - 3.200K

CIE 1931



CIE 1976



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 96,3 | 98,4 | 97,6 | 96,0 | 92,8 | 95,9 | 96,7 | 95,8 | 93,3 | 94,4 | 85,3 | 95,5 | 99,0 | 97,3 |

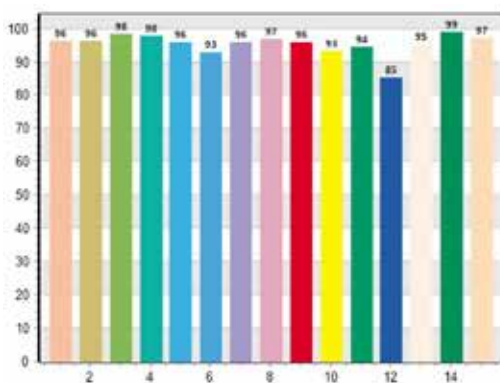
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 90,8 | 95,7 | 94,7 | 93,9 | 97,1 | 92,7 | 96,7 | 92,9 | 92,0 | 92,1 | 90,4 | 92,7 | 91,3 | 91,2 | 88,3 |

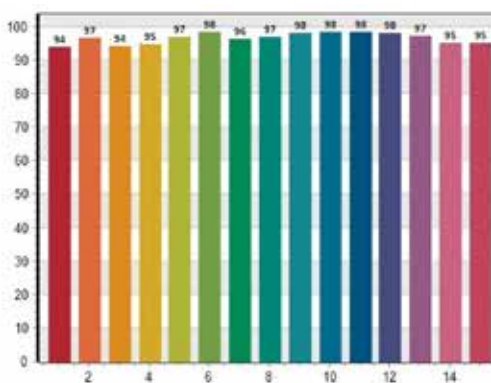
CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,1 | 96,8 | 94,3 | 95,0 | 97,0 | 98,4 | 96,5 | 97,1 | 98,2 | 98,5 | 98,5 | 98,1 | 97,3 | 95,2 | 95,2 |

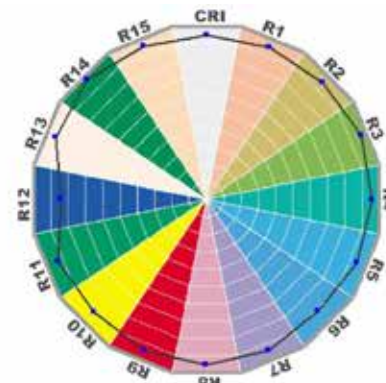
CRI: 96,23



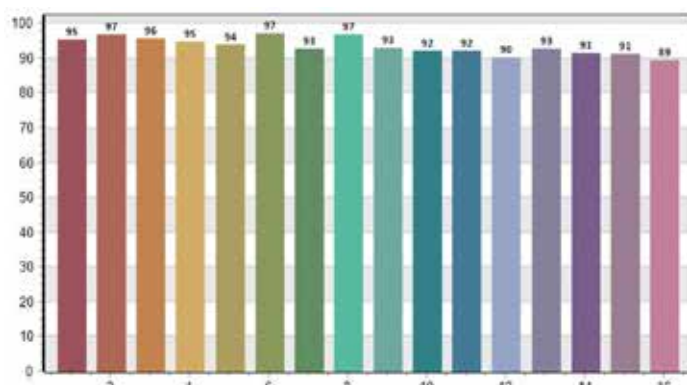
CQS: 96,18



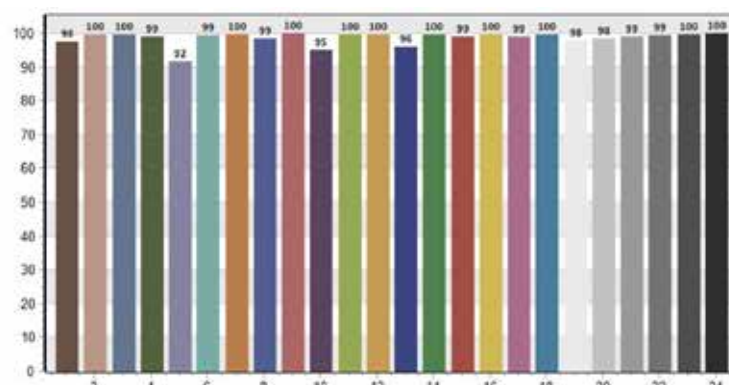
CRI-2



TM30: 94,37



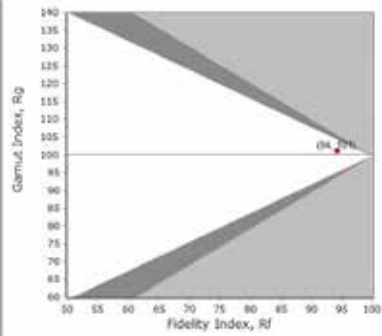
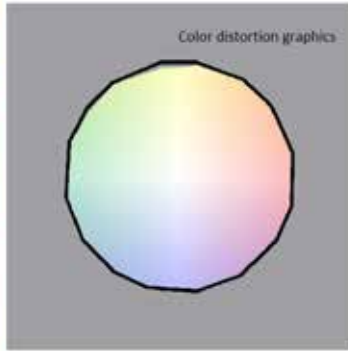
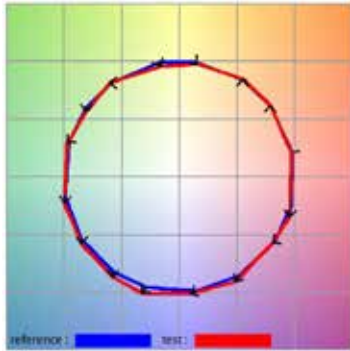
TLCI: 97,95





## ReLite LED Kit for Robert Juliat 310 HPC - Maximum Zoom - 3.200K

## General Color Rendition

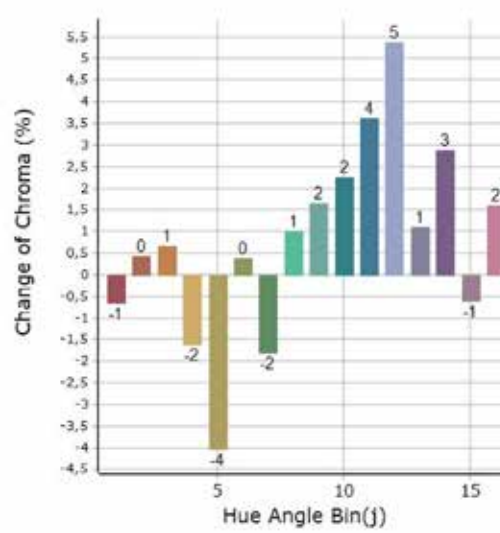
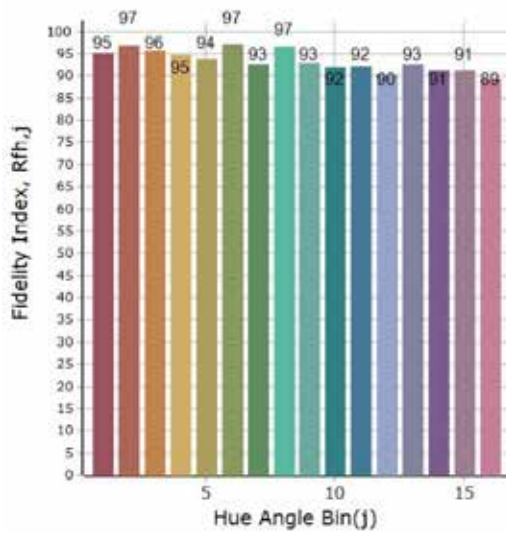
**Rf 94,4**

Fidelity index Rf

**Rg 101,3**

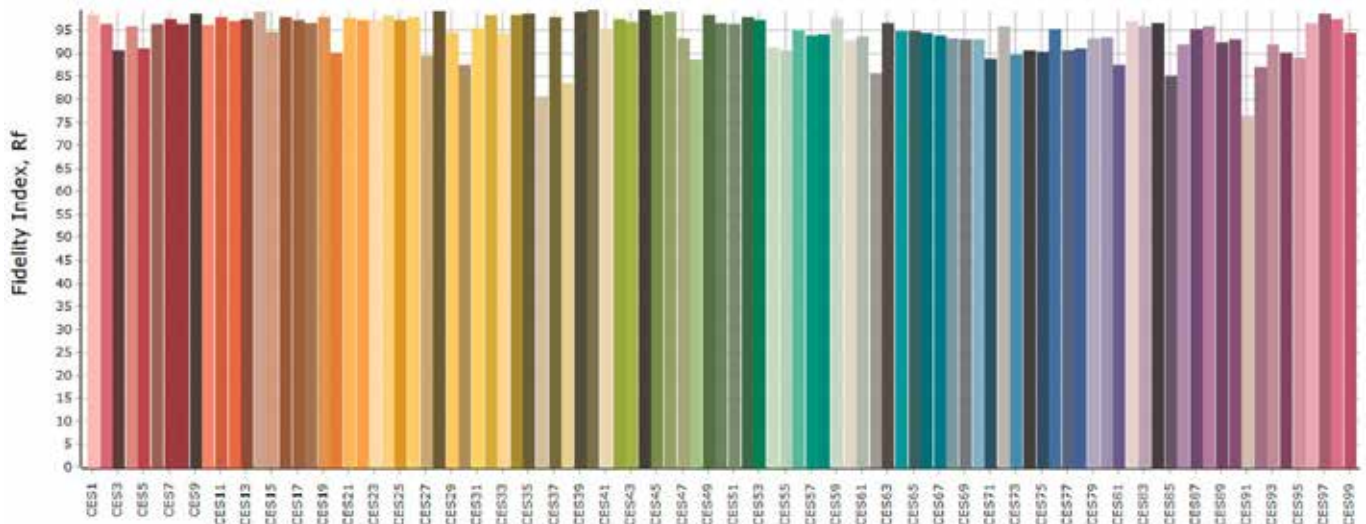
Gammut index Rg

## Color Rendition by Hue



|         |      | Graphic shifts (%) |       |
|---------|------|--------------------|-------|
| Hue Bin | Rf   | Chroma             | Hue   |
| 1       | 95,2 | -0,7%              | 1,0%  |
| 2       | 96,8 | 0,4%               | 0,1%  |
| 3       | 95,7 | 0,7%               | 0,0%  |
| 4       | 94,7 | -1,6%              | -2,0% |
| 5       | 93,9 | -4,0%              | -0,7% |
| 6       | 97,1 | 0,4%               | 0,9%  |
| 7       | 92,7 | -1,8%              | 2,9%  |
| 8       | 96,7 | 1,0%               | 1,5%  |
| 9       | 92,9 | 1,6%               | 4,2%  |
| 10      | 92,0 | 2,2%               | 3,7%  |
| 11      | 92,1 | 3,6%               | 3,2%  |
| 12      | 90,4 | 5,4%               | -1,6% |
| 13      | 92,7 | 1,1%               | -4,7% |
| 14      | 91,3 | 2,9%               | -5,0% |
| 15      | 91,2 | -0,6%              | -2,1% |
| 16      | 89,3 | 1,6%               | -7,5% |

## Color Fidelity by Sample



## ReLite LED Kit for Robert Juliat 310 HPC - Minimum Zoom - 5.600K

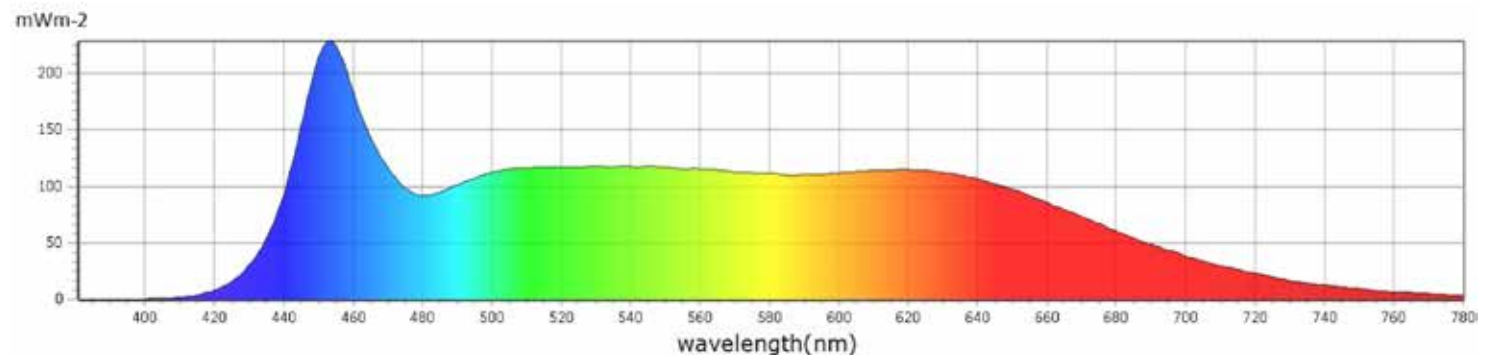
## General

|           |        |
|-----------|--------|
| ● CCT     | 5826 K |
| ● x       | 0,3256 |
| ● y       | 0,3320 |
| ● LambdaD | 489 nm |
| ● LambdaP | 452 nm |

## Measurements

|                 |               |                    |                  |                                                    |             |           |            |
|-----------------|---------------|--------------------|------------------|----------------------------------------------------|-------------|-----------|------------|
| CCT : 5826 K    | x10 : 0,3282  | delta-x : 0,0001   | LambdaD : 489 nm | PPFD : 135,4 $\mu\text{molm}^{-2}\text{s}^{-1}$    | S/P : 2,33  | R3 : 98,5 | R10 : 96,8 |
| LUX : 8311 lx   | y10 : 0,3363  | delta-y : -0,0029  | LambdaP : 452 nm | PFD : 142,7 $\mu\text{molm}^{-2}\text{s}^{-1}$     | IRR : 30,63 | R4 : 98,5 | R11 : 96,5 |
| I-Time : 830 us | u'10 : 0,2058 | delta-u' : 0,0012  | Purity : 2,72%   | PFD-B : 35,14 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CQS : 95,5  | R5 : 96,7 | R12 : 78,6 |
| x : 0,3256      | v'10 : 0,4745 | delta-v' : -0,0015 | fc : 772,4       | PFD-G : 52,78 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CRI : 97,2  | R6 : 94,4 | R13 : 96,6 |
| y : 0,3320      | X : 8150,67   | Duv : -0,0016      | Rf : 93,3        | PFD-R : 47,45 $\mu\text{molm}^{-2}\text{s}^{-1}$   | ILCI : 98,2 | R7 : 97,5 | R14 : 98,3 |
| u' : 0,2056     | Y : 8311,33   | MEL : 8578 lx      | Rg : 100,7       | PFD-UV : 0,0071 $\mu\text{molm}^{-2}\text{s}^{-1}$ | R1 : 96,5   | R8 : 98,1 | R15 : 95,4 |
| v' : 0,4718     | Z : 8573,58   | LambdaPV : 228,8   | GAI : 97,4       | PFD-FR : 7,362 $\mu\text{molm}^{-2}\text{s}^{-1}$  | R2 : 97,7   | R9 : 96,3 |            |

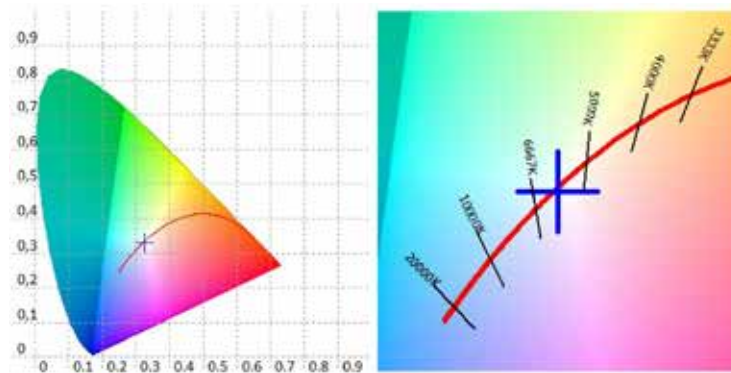
## Spectrum



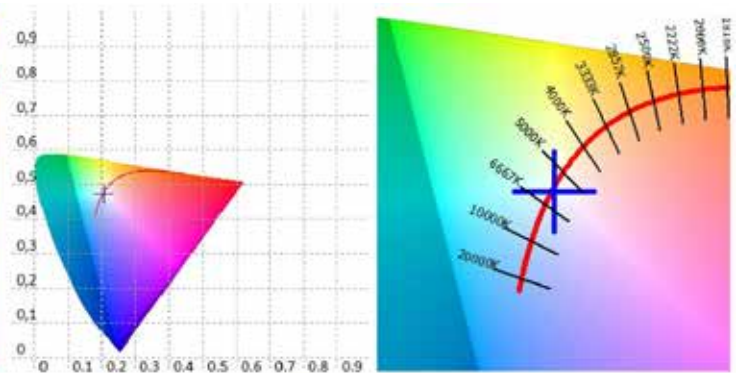


## ReLite LED Kit for Robert Juliat 310 HPC - Minimum Zoom - 5.600K

CIE 1931



CIE 1976



CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,5 | 97,7 | 98,5 | 98,5 | 96,7 | 94,4 | 97,5 | 98,1 | 96,3 | 96,8 | 96,5 | 78,6 | 96,6 | 98,3 | 95,4 |

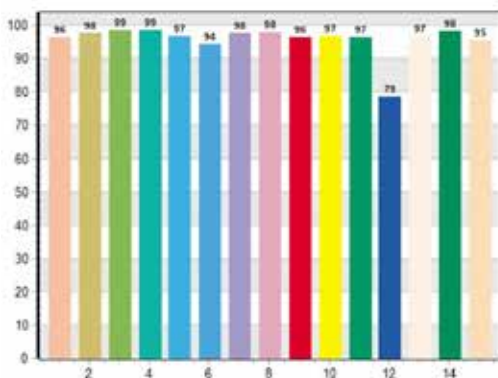
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,5 | 96,1 | 95,4 | 93,9 | 91,5 | 96,0 | 96,0 | 91,1 | 90,2 | 88,0 | 80,4 | 95,6 | 93,3 | 94,6 | 84,7 | 90,2 |

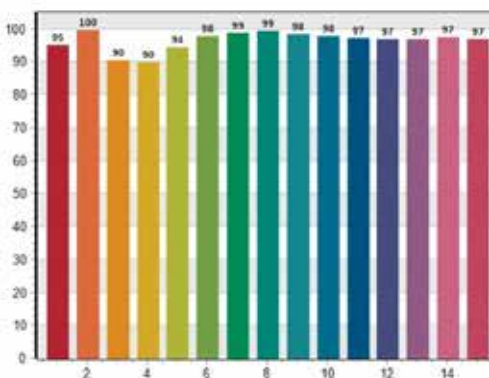
CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,1 | 99,6 | 90,4 | 89,9 | 94,4 | 97,9 | 98,8 | 99,4 | 98,3 | 97,9 | 97,2 | 97,0 | 96,9 | 97,5 | 96,8 |

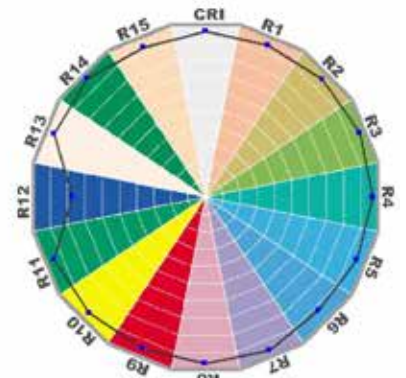
CRI: 97,23



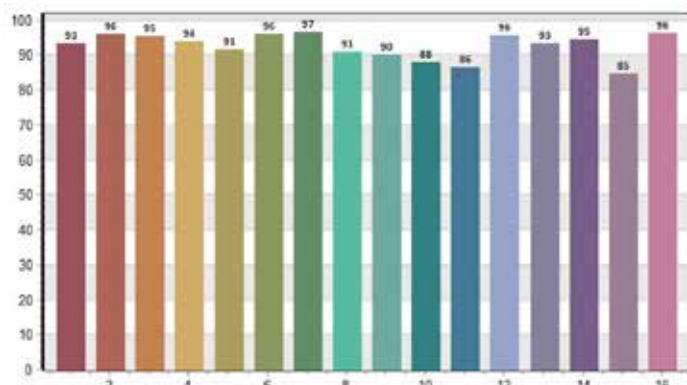
CQS: 95,49



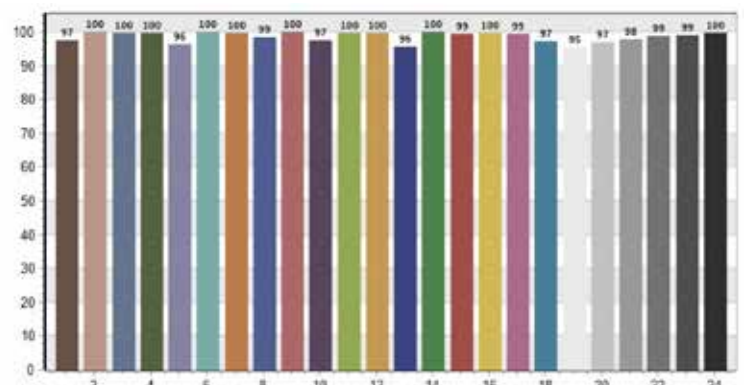
CRI-2



TM30: 93,26

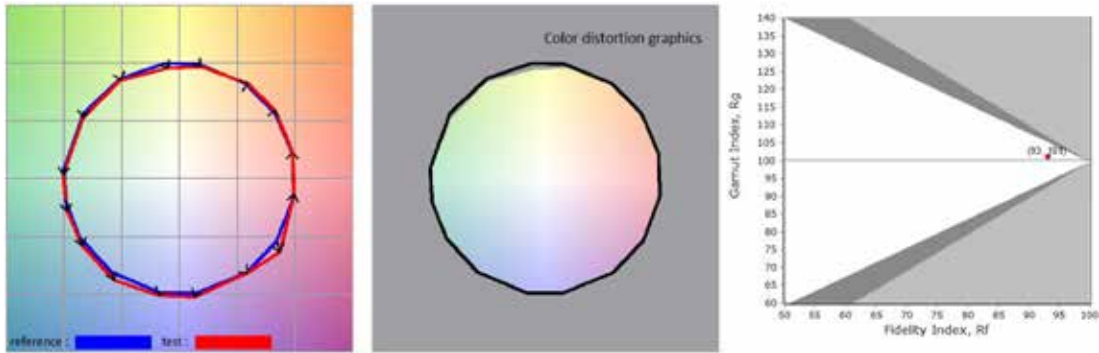


TLCI: 98,18



## ReLite LED Kit for Robert Juliat 310 HPC - Minimum Zoom - 5.600K

## General Color Rendition

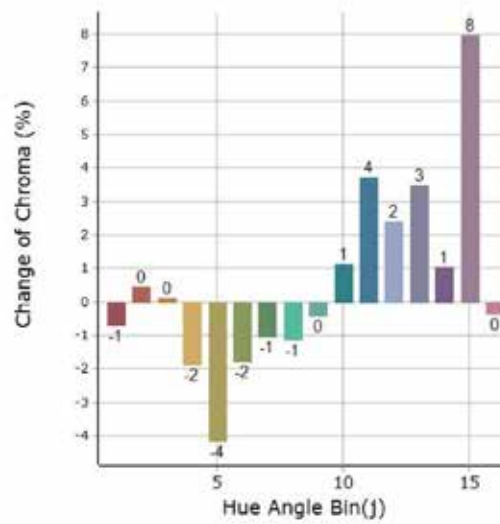
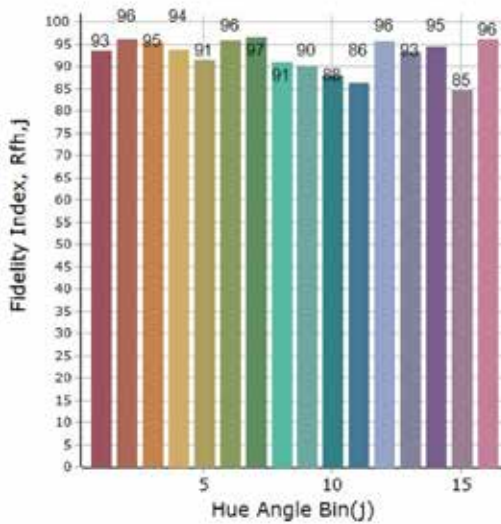
**Rf 93,3**

Fidelity index Rf

**Rg 100,7**

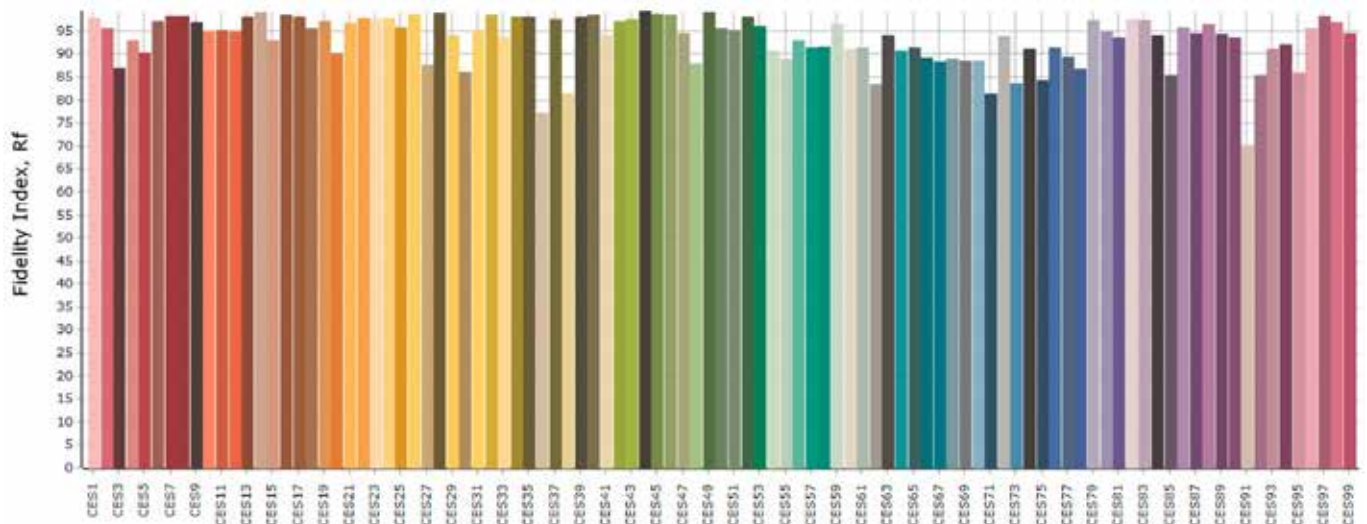
Gamut index Rg

## Color Rendition by Hue



| Hue Bin | Rf   | Graphic shifts (%) |       |
|---------|------|--------------------|-------|
|         |      | Chroma             | Hue   |
| 1       | 93,5 | -0,7%              | 0,9%  |
| 2       | 96,1 | 0,5%               | 1,0%  |
| 3       | 95,4 | 0,1%               | 0,0%  |
| 4       | 93,9 | -1,9%              | -1,4% |
| 5       | 91,5 | -4,1%              | -1,3% |
| 6       | 96,0 | -1,8%              | 0,7%  |
| 7       | 96,6 | -1,0%              | 1,6%  |
| 8       | 91,1 | -1,1%              | 4,7%  |
| 9       | 90,2 | -0,4%              | 3,0%  |
| 10      | 88,0 | 1,1%               | 6,8%  |
| 11      | 86,4 | 3,7%               | 6,5%  |
| 12      | 95,6 | 2,4%               | 0,0%  |
| 13      | 93,3 | 3,5%               | -1,4% |
| 14      | 94,6 | 1,0%               | -1,0% |
| 15      | 84,7 | 8,0%               | -7,4% |
| 16      | 96,2 | -0,3%              | 0,6%  |

## Color Fidelity by Sample



## ReLite LED Kit for Robert Juliat 310 HPC - Maximum Zoom - 5.600K

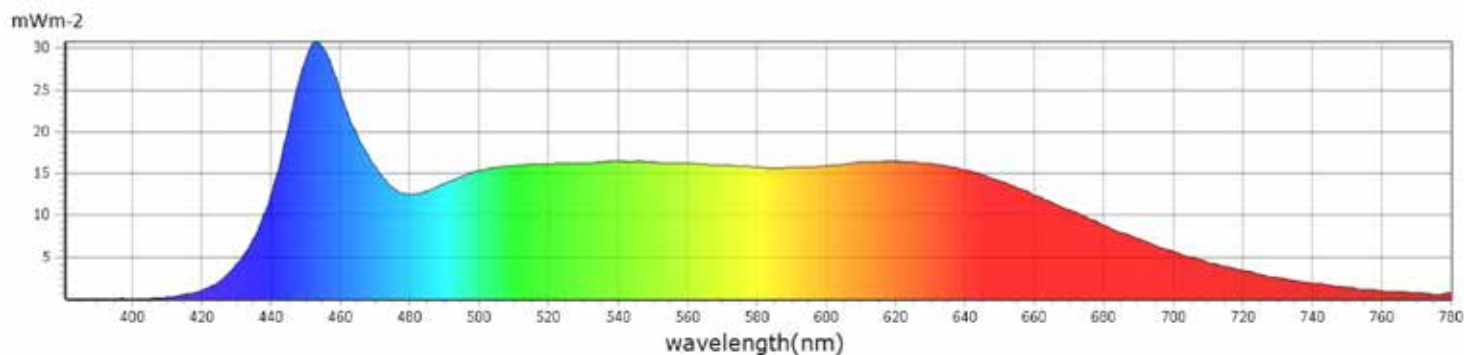
## General

|           |        |
|-----------|--------|
| ● CCT     | 5563 K |
| ● x       | 0,3310 |
| ● y       | 0,3361 |
| ● LambdaD | 508 nm |
| ● LambdaP | 452 nm |

## Measurements

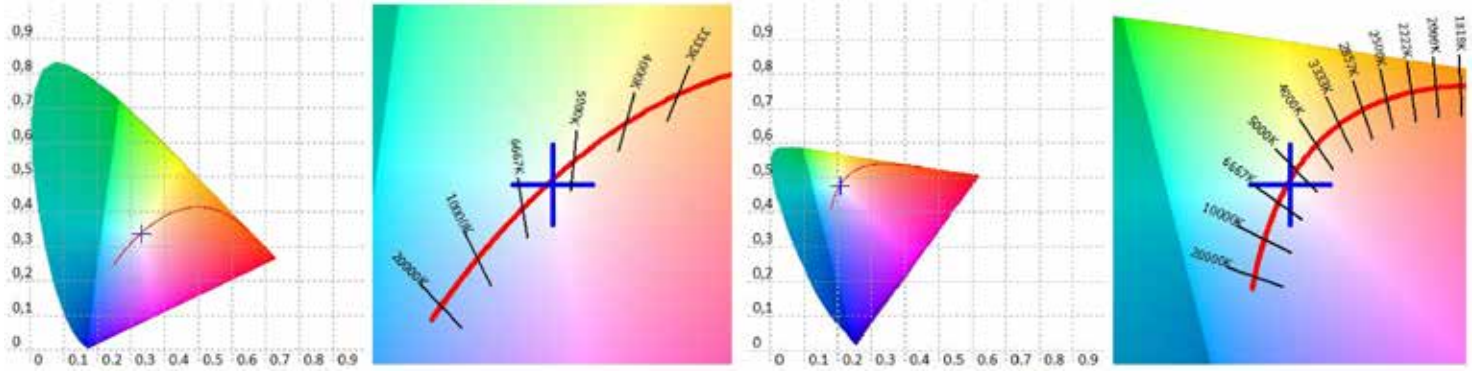
|                  |               |                    |                  |                                                    |             |           |            |
|------------------|---------------|--------------------|------------------|----------------------------------------------------|-------------|-----------|------------|
| CCT : 5563 K     | x10 : 0,3338  | delta-x : 0,0000   | LambdaD : 508 nm | PPFD : 18,99 $\mu\text{molm}^{-2}\text{s}^{-1}$    | S/P : 2,27  | R3 : 98,4 | R10 : 97,0 |
| LUX : 1167 lx    | y10 : 0,3400  | delta-y : -0,0037  | LambdaP : 452 nm | PFD : 20,08 $\mu\text{molm}^{-2}\text{s}^{-1}$     | IRR : 4,291 | R4 : 98,7 | R11 : 96,6 |
| I-Time : 6000 us | u'10 : 0,2082 | delta-u' : 0,0014  | Purity : 0,72%   | PFD-B : 4,743 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CQS : 95,4  | R5 : 96,9 | R12 : 79,4 |
| x : 0,3310       | v'10 : 0,4772 | delta-v' : -0,0019 | fc : 108,5       | PFD-G : 7,391 $\mu\text{molm}^{-2}\text{s}^{-1}$   | CRI : 97,3  | R6 : 94,4 | R13 : 96,8 |
| y : 0,3361       | X : 1149,49   | Duv : -0,0019      | Rf : 93,4        | PFD-R : 6,856 $\mu\text{molm}^{-2}\text{s}^{-1}$   | ILCI : 98,2 | R7 : 97,5 | R14 : 98,4 |
| u' : 0,2078      | Y : 1167,27   | MEL : 1170 lx      | Rg : 100,8       | PFD-UV : 0,0018 $\mu\text{molm}^{-2}\text{s}^{-1}$ | R1 : 96,7   | R8 : 98,2 | R15 : 95,8 |
| v' : 0,4748      | Z : 1156,06   | LambdaPV : 30,79   | GAI : 96,2       | PFD-FR : 1,091 $\mu\text{molm}^{-2}\text{s}^{-1}$  | R2 : 97,8   | R9 : 96,8 |            |

## Spectrum





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CRI values, only R1-R8 are used to calculate final CRI

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,7 | 97,8 | 98,4 | 98,7 | 96,9 | 94,4 | 97,5 | 98,2 | 96,8 | 97,0 | 96,6 | 79,4 | 96,8 | 98,4 | 95,8 |

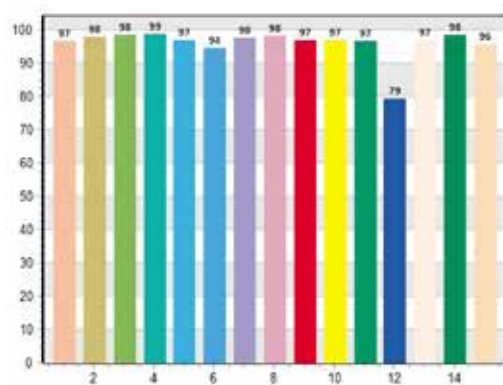
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,6 | 96,1 | 95,2 | 94,1 | 92,4 | 97,1 | 94,9 | 91,0 | 90,5 | 88,2 | 86,5 | 93,6 | 93,5 | 94,6 | 85,1 | 96,3 |

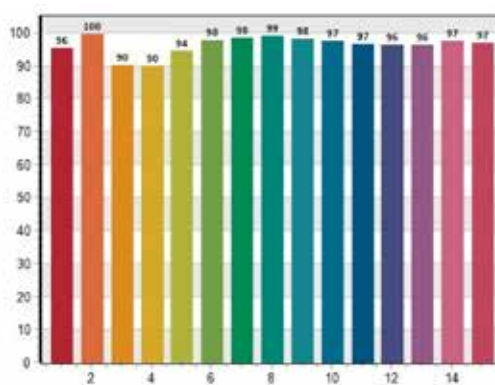
CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,5 | 99,7 | 90,1 | 89,8 | 94,5 | 98,0 | 98,4 | 99,2 | 98,1 | 97,5 | 96,7 | 96,5 | 96,5 | 97,4 | 96,9 |

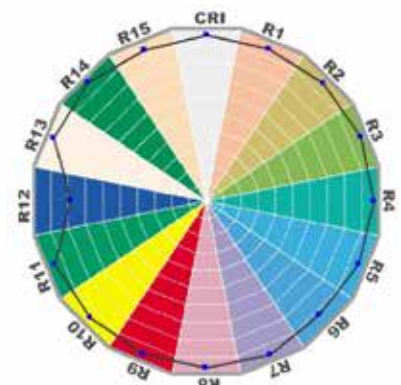
CRI: 97,32



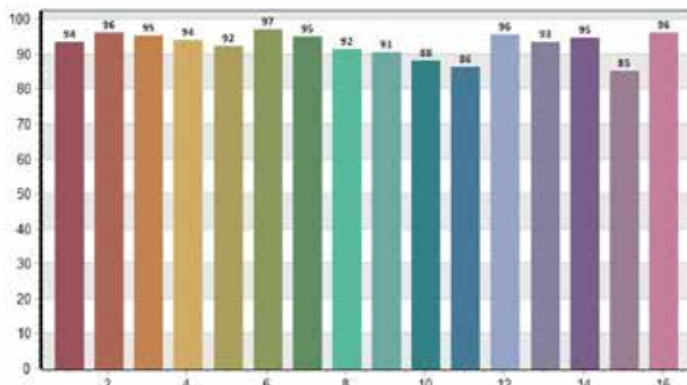
CQS: 95,37



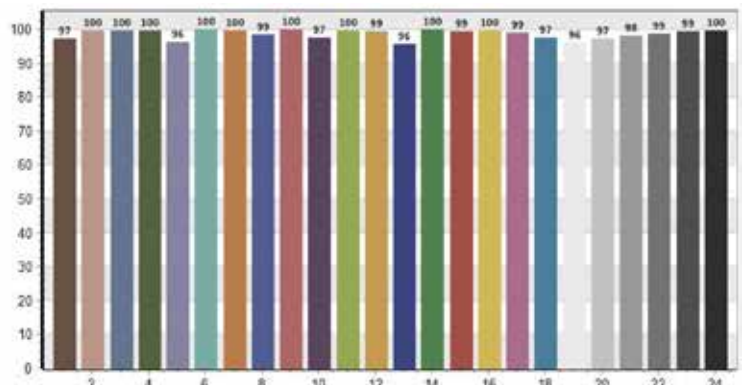
CRI-2



TM30: 93,41

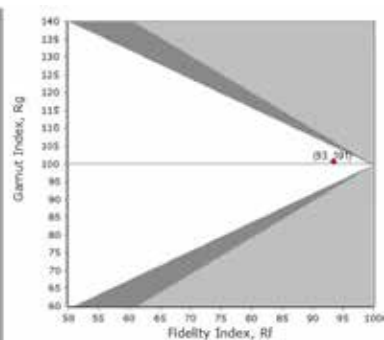
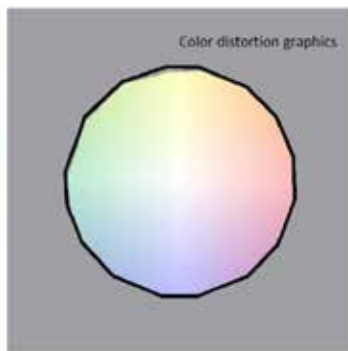
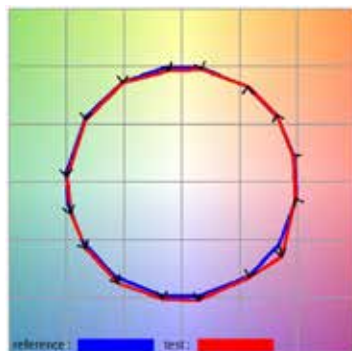


TLCI: 98,21



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## General Color Rendition

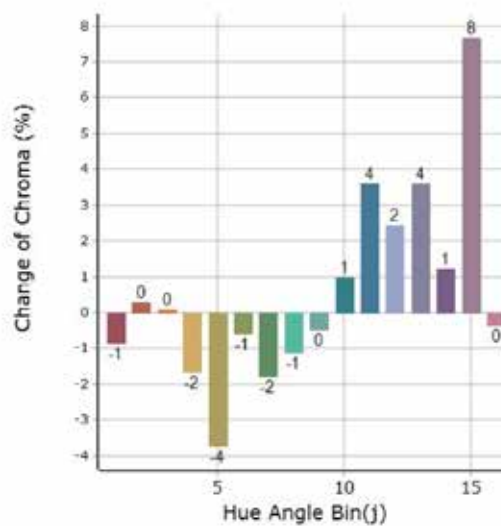
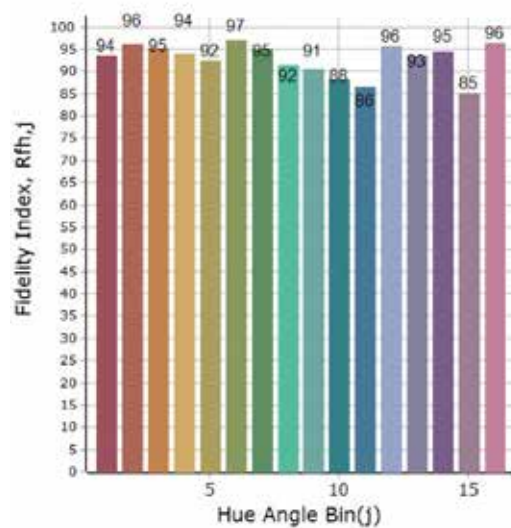
**Rf 93,4**

Fidelity index Rf

**Rg 100,8**

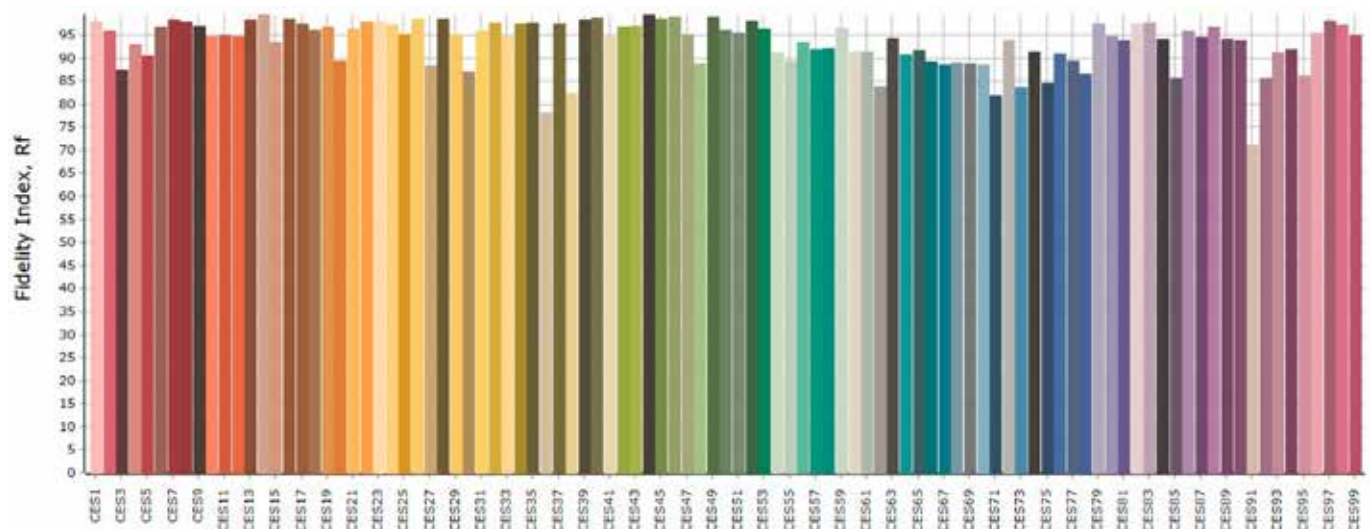
Gamut index Rg

## Color Rendition by Hue



|         |      | Graphic shifts (%) |       |
|---------|------|--------------------|-------|
| Hue Bin | Rf   | Chroma             | Hue   |
| 1       | 93,6 | -0,8%              | 0,8%  |
| 2       | 96,1 | 0,3%               | 1,1%  |
| 3       | 95,2 | 0,1%               | 0,4%  |
| 4       | 94,1 | -1,6%              | -0,9% |
| 5       | 92,4 | -3,7%              | -0,9% |
| 6       | 97,1 | -0,6%              | 0,5%  |
| 7       | 94,9 | -1,8%              | 2,1%  |
| 8       | 91,6 | -1,1%              | 4,4%  |
| 9       | 90,5 | -0,5%              | 7,7%  |
| 10      | 88,2 | 1,0%               | 6,6%  |
| 11      | 86,5 | 3,6%               | 6,4%  |
| 12      | 95,6 | 2,4%               | 0,2%  |
| 13      | 93,5 | 3,6%               | -1,3% |
| 14      | 94,6 | 1,2%               | -1,0% |
| 15      | 85,1 | 7,7%               | -7,4% |
| 16      | 96,3 | -0,4%              | 0,4%  |

## Color Fidelity by Sample



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