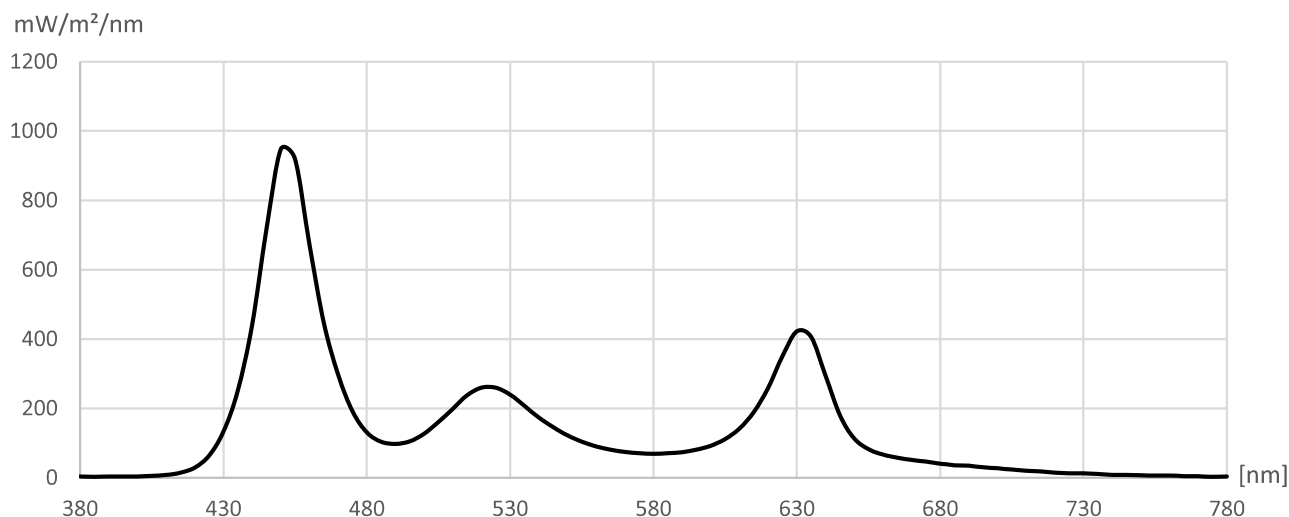


# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / all

Measurement file: 414200\_data\_1m\_all.C  
Date of measurement: 18.04.2018  
Time of measurement: 16:35:56



|         |         |                                    |                         |             |
|---------|---------|------------------------------------|-------------------------|-------------|
| R1 = -  | Ra = -  | Illuminance                        | 11390,16 lx             | CIE1931     |
| R2 = -  | Re = -  | Ee                                 | 58,214 W/m <sup>2</sup> | x = 0,2578  |
| R3 = -  | GAI = - | LER                                | 195,7 lm/W              | y = 0,2027  |
| R4 = -  |         |                                    |                         |             |
| R5 = -  |         | correlated color temperature (CCT) | > 50000 K               | CIE1976     |
| R6 = -  |         | Duv                                | -                       | u' = 0,2097 |
| R7 = -  |         |                                    |                         | v' = 0,3710 |
| R8 = -  |         | Saturation                         | 41,7 %                  |             |
| R9 = -  |         |                                    |                         | CIE1960     |
| R10 = - |         | Dominant wavelength                | 436 nm                  | u = 0,2097  |
| R11 = - |         | Peak wavelength                    | 451 nm                  | v = 0,2474  |
| R12 = - |         |                                    |                         |             |
| R13 = - |         | Flicker frequency                  | % < 2.5 Hz              | TM30        |
| R14 = - |         | Percent Flicker                    | < 2.5 %                 | Rf = -      |
| R15 = - |         | Flicker index                      | % < 2.5                 | Rg = -      |

| [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380  | 3,30                  | 440  | 440,10                | 500  | 126,69                | 560  | 90,44                 | 620  | 259,27                | 680  | 40,80                 | 740  | 8,21                  |
| 385  | 3,01                  | 445  | 717,66                | 505  | 161,02                | 565  | 80,72                 | 625  | 349,59                | 685  | 36,09                 | 745  | 8,22                  |
| 390  | 3,60                  | 450  | 947,82                | 510  | 199,15                | 570  | 74,66                 | 630  | 421,96                | 690  | 34,42                 | 750  | 6,99                  |
| 395  | 3,91                  | 455  | 919,70                | 515  | 237,24                | 575  | 70,86                 | 635  | 406,49                | 695  | 29,86                 | 755  | 6,48                  |
| 400  | 3,67                  | 460  | 674,74                | 520  | 259,52                | 580  | 69,04                 | 640  | 294,28                | 700  | 27,07                 | 760  | 6,32                  |
| 405  | 5,76                  | 465  | 447,83                | 525  | 259,55                | 585  | 70,67                 | 645  | 180,40                | 705  | 23,85                 | 765  | 4,90                  |
| 410  | 7,87                  | 470  | 297,13                | 530  | 239,74                | 590  | 73,68                 | 650  | 113,61                | 710  | 20,43                 | 770  | 4,35                  |
| 415  | 14,45                 | 475  | 191,55                | 535  | 206,87                | 595  | 80,83                 | 655  | 82,68                 | 715  | 18,36                 | 775  | 2,58                  |
| 420  | 29,43                 | 480  | 130,37                | 540  | 174,24                | 600  | 92,22                 | 660  | 66,70                 | 720  | 14,88                 | 780  | 3,62                  |
| 425  | 64,42                 | 485  | 104,09                | 545  | 146,27                | 605  | 111,60                | 665  | 57,92                 | 725  | 13,04                 |      |                       |
| 430  | 132,38                | 490  | 97,58                 | 550  | 122,25                | 610  | 141,53                | 670  | 51,65                 | 730  | 12,61                 |      |                       |
| 435  | 250,32                | 495  | 104,74                | 555  | 104,04                | 615  | 189,69                | 675  | 46,38                 | 735  | 10,86                 |      |                       |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

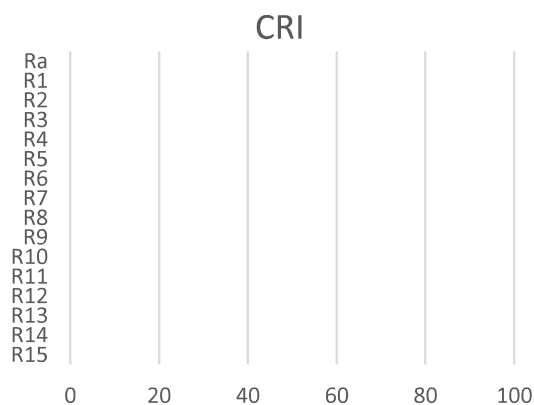
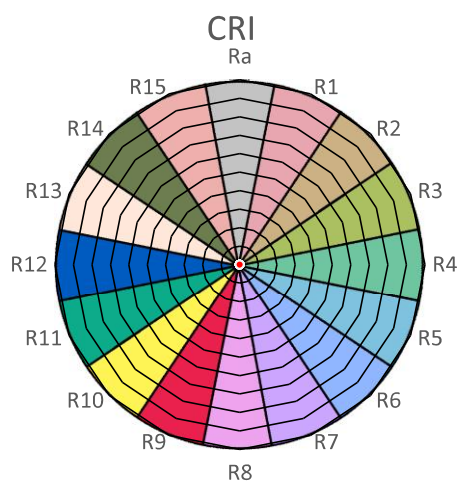
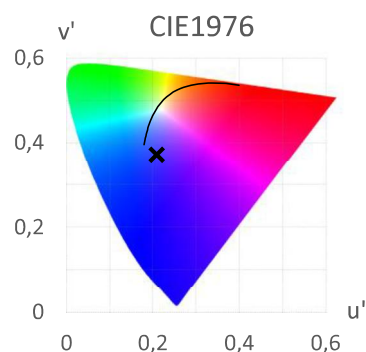
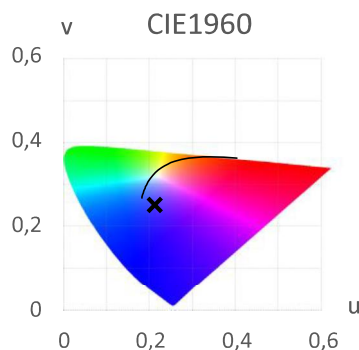
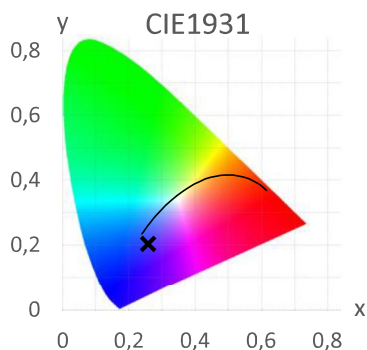
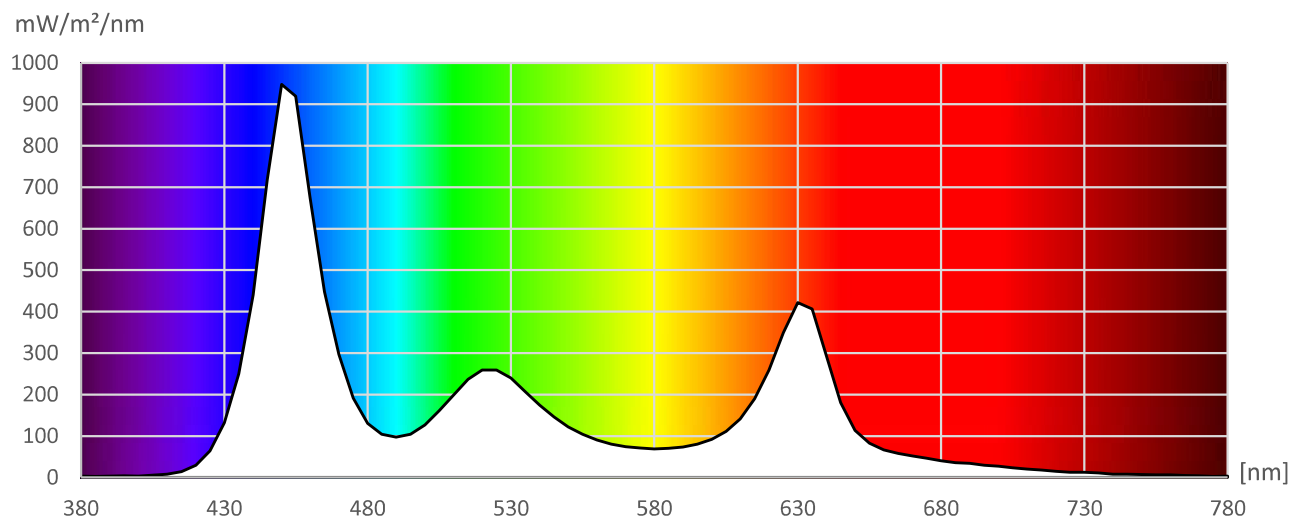
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / all

Measurement file: 414200\_data\_1m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:35:56



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D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

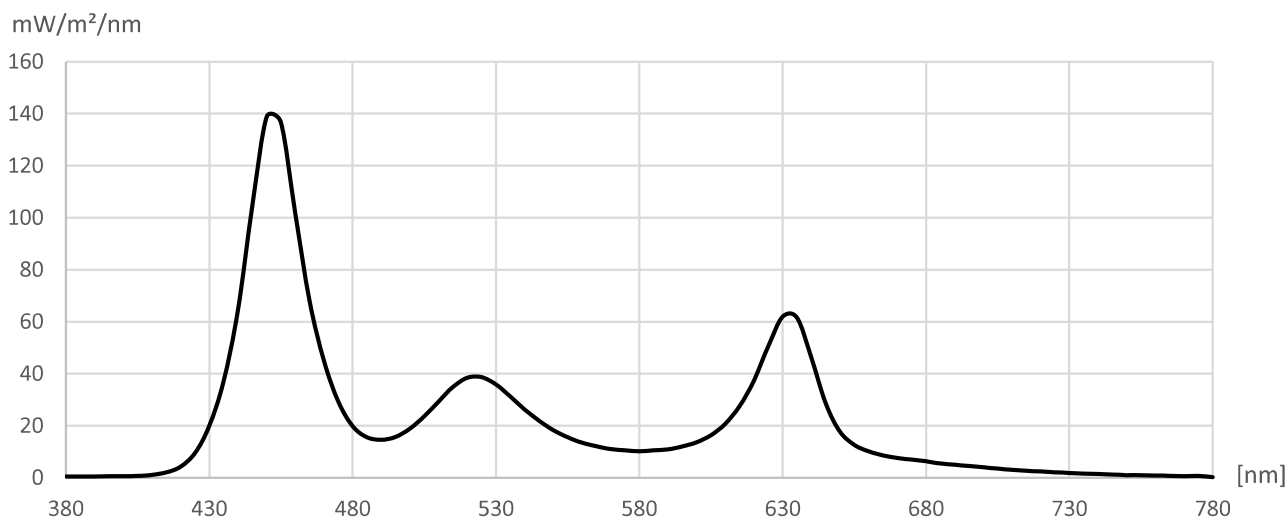
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / all

Measurement file: 414200\_data\_3m\_all.C  
Date of measurement: 18.04.2018  
Time of measurement: 16:36:32



|         |         |                                    |            |             |
|---------|---------|------------------------------------|------------|-------------|
| R1 = -  | Ra = -  | Illuminance                        | 1694,81 lx | CIE1931     |
| R2 = -  | Re = -  | Ee                                 | 8,667 W/m² | x = 0,2576  |
| R3 = -  | GAI = - | LER                                | 195,5 lm/W | y = 0,2032  |
| R4 = -  |         |                                    |            |             |
| R5 = -  |         | correlated color temperature (CCT) | > 50000 K  | CIE1976     |
| R6 = -  |         | Duv                                | -          | u' = 0,2093 |
| R7 = -  |         |                                    |            | v' = 0,3714 |
| R8 = -  |         | Saturation                         | 41,6 %     |             |
| R9 = -  |         |                                    |            | CIE1960     |
| R10 = - |         | Dominant wavelength                | 438 nm     | u = 0,2093  |
| R11 = - |         | Peak wavelength                    | 451 nm     | v = 0,2476  |
| R12 = - |         |                                    |            |             |
| R13 = - |         | Flicker frequency                  | % < 2.5 Hz | TM30        |
| R14 = - |         | Percent Flicker                    | < 2.5 %    | Rf = -      |
| R15 = - |         | Flicker index                      | % < 2.5    | Rg = -      |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 0,42     | 440  | 64,46    | 500  | 18,91    | 560  | 13,46    | 620  | 37,48    | 680  | 6,30     | 740  | 1,39     |
| 385  | 0,51     | 445  | 104,63   | 505  | 23,65    | 565  | 12,09    | 625  | 50,44    | 685  | 5,47     | 745  | 1,23     |
| 390  | 0,52     | 450  | 138,80   | 510  | 29,36    | 570  | 10,99    | 630  | 61,88    | 690  | 4,95     | 750  | 1,01     |
| 395  | 0,57     | 455  | 136,75   | 515  | 34,89    | 575  | 10,51    | 635  | 61,55    | 695  | 4,51     | 755  | 1,00     |
| 400  | 0,58     | 460  | 101,90   | 520  | 38,41    | 580  | 10,23    | 640  | 46,18    | 700  | 4,00     | 760  | 0,82     |
| 405  | 0,67     | 465  | 67,94    | 525  | 38,65    | 585  | 10,53    | 645  | 28,58    | 705  | 3,51     | 765  | 0,78     |
| 410  | 1,10     | 470  | 44,90    | 530  | 35,88    | 590  | 10,88    | 650  | 17,78    | 710  | 3,02     | 770  | 0,62     |
| 415  | 2,05     | 475  | 29,21    | 535  | 31,14    | 595  | 12,00    | 655  | 12,67    | 715  | 2,64     | 775  | 0,68     |
| 420  | 4,25     | 480  | 19,81    | 540  | 26,29    | 600  | 13,65    | 660  | 10,13    | 720  | 2,39     | 780  | 0,26     |
| 425  | 9,57     | 485  | 15,62    | 545  | 21,95    | 605  | 16,36    | 665  | 8,61     | 725  | 2,11     |      |          |
| 430  | 19,84    | 490  | 14,58    | 550  | 18,34    | 610  | 20,79    | 670  | 7,60     | 730  | 1,80     |      |          |
| 435  | 37,04    | 495  | 15,74    | 555  | 15,56    | 615  | 27,58    | 675  | 6,95     | 735  | 1,60     |      |          |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

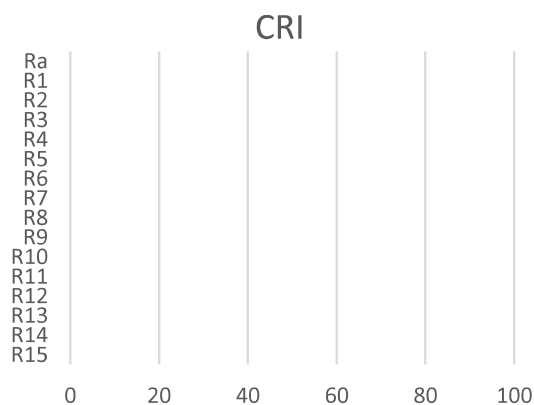
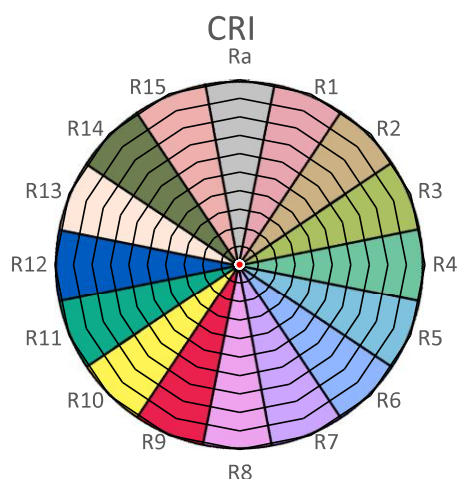
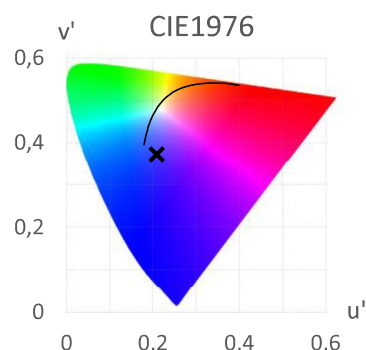
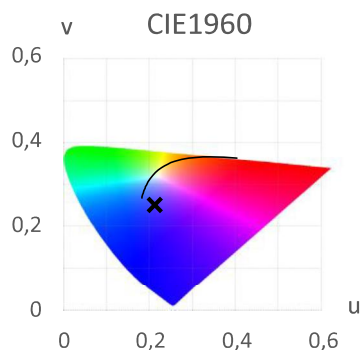
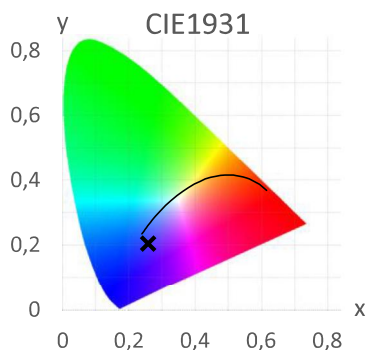
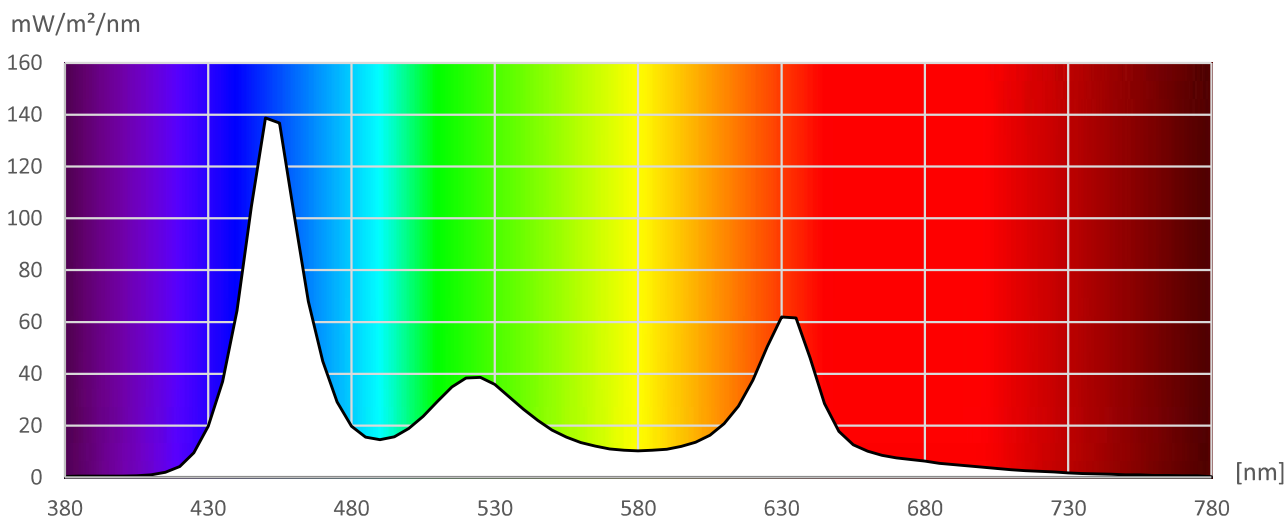
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / all

Measurement file: 414200\_data\_3m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:36:32



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D-96138 Burgebrach, Germany

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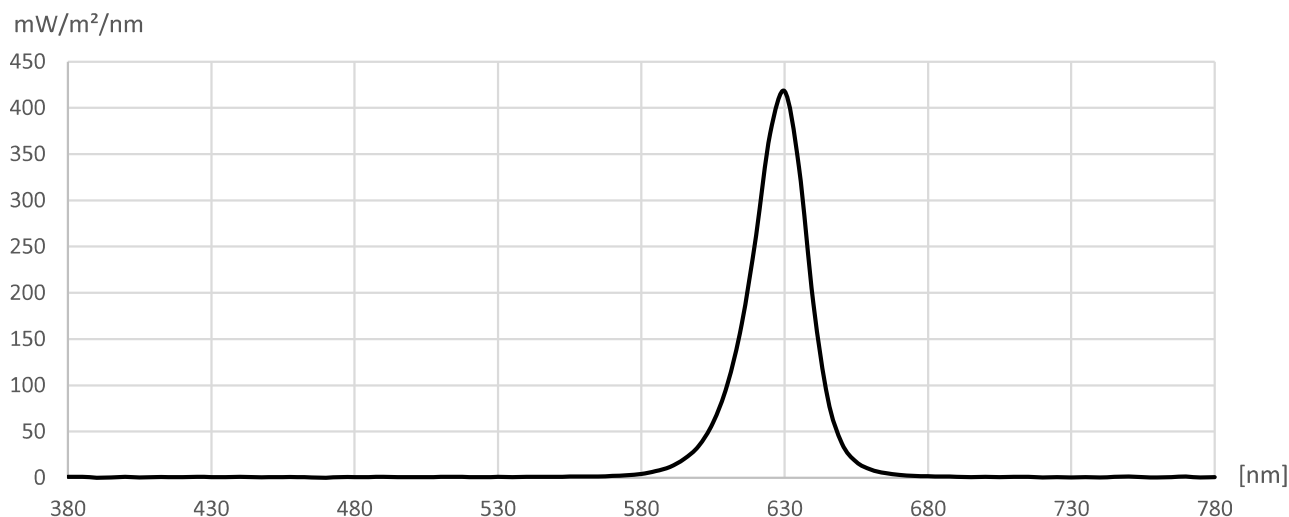
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / red

Measurement file: 414200\_data\_1m\_red.t  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:04



|         |         |                                    |             |             |
|---------|---------|------------------------------------|-------------|-------------|
| R1 = -  | Ra = -  | Illuminance                        | 2335,01 lx  | CIE1931     |
| R2 = -  | Re = -  | Ee                                 | 10,945 W/m² | x = 0,6825  |
| R3 = -  | GAI = - | LER                                | 213,3 lm/W  | y = 0,3108  |
| R4 = -  |         |                                    |             |             |
| R5 = -  |         | correlated color temperature (CCT) | < 1600 K    | CIE1976     |
| R6 = -  |         | Duv                                | -           | u' = 0,5088 |
| R7 = -  |         |                                    |             | v' = 0,5214 |
| R8 = -  |         | Saturation                         | 98,1 %      |             |
| R9 = -  |         |                                    |             | CIE1960     |
| R10 = - |         | Dominant wavelength                | 623 nm      | u = 0,5088  |
| R11 = - |         | Peak wavelength                    | 628 nm      | v = 0,3476  |
| R12 = - |         |                                    |             |             |
| R13 = - |         | Flicker frequency                  | % < 2.5 Hz  | TM30        |
| R14 = - |         | Percent Flicker                    | < 2.5 %     | Rf = -      |
| R15 = - |         | Flicker index                      | % < 2.5     | Rg = -      |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 0,93     | 440  | 1,00     | 500  | 0,74     | 560  | 1,31     | 620  | 261,89   | 680  | 1,57     | 740  | 0,30     |
| 385  | 1,00     | 445  | 0,49     | 505  | 0,74     | 565  | 1,33     | 625  | 372,52   | 685  | 1,25     | 745  | 0,81     |
| 390  | 0,09     | 450  | 0,68     | 510  | 0,83     | 570  | 1,93     | 630  | 418,12   | 690  | 1,07     | 750  | 1,19     |
| 395  | 0,28     | 455  | 0,75     | 515  | 0,95     | 575  | 2,79     | 635  | 335,97   | 695  | 0,49     | 755  | 0,57     |
| 400  | 0,96     | 460  | 0,79     | 520  | 0,75     | 580  | 4,01     | 640  | 188,53   | 700  | 0,96     | 760  | 0,29     |
| 405  | 0,40     | 465  | 0,44     | 525  | 0,63     | 585  | 7,11     | 645  | 85,82    | 705  | 0,64     | 765  | 0,66     |
| 410  | 0,80     | 470  | 0,10     | 530  | 0,82     | 590  | 11,75    | 650  | 37,39    | 710  | 1,01     | 770  | 1,18     |
| 415  | 0,76     | 475  | 0,77     | 535  | 0,73     | 595  | 20,29    | 655  | 17,11    | 715  | 0,96     | 775  | 0,25     |
| 420  | 0,74     | 480  | 0,50     | 540  | 0,90     | 600  | 34,22    | 660  | 8,87     | 720  | 0,36     | 780  | 0,70     |
| 425  | 0,95     | 485  | 0,79     | 545  | 0,98     | 605  | 59,52    | 665  | 4,99     | 725  | 0,71     |      |          |
| 430  | 0,78     | 490  | 0,85     | 550  | 0,86     | 610  | 100,69   | 670  | 3,10     | 730  | 0,21     |      |          |
| 435  | 0,53     | 495  | 0,68     | 555  | 1,20     | 615  | 166,01   | 675  | 1,88     | 735  | 0,56     |      |          |

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Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

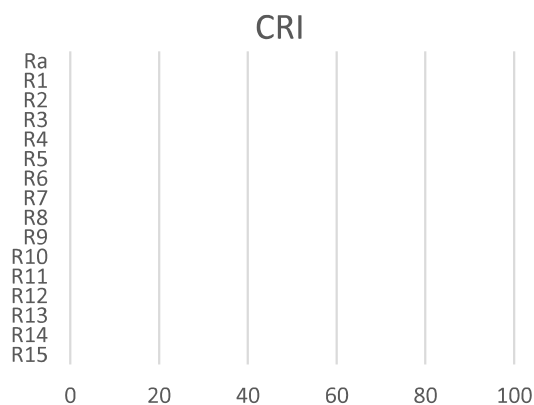
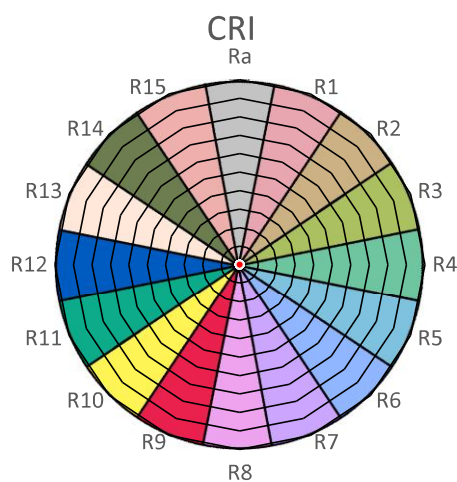
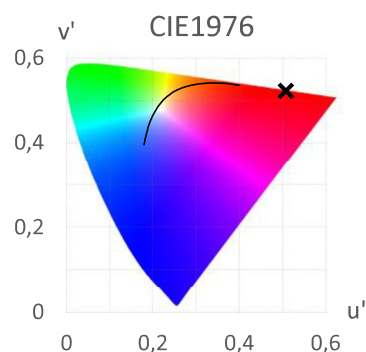
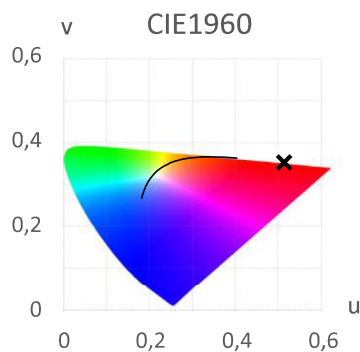
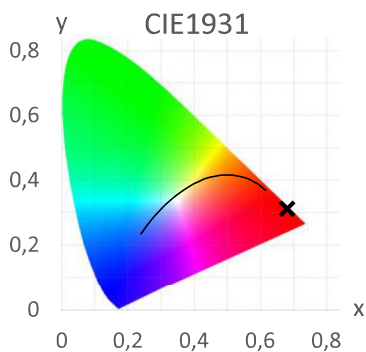
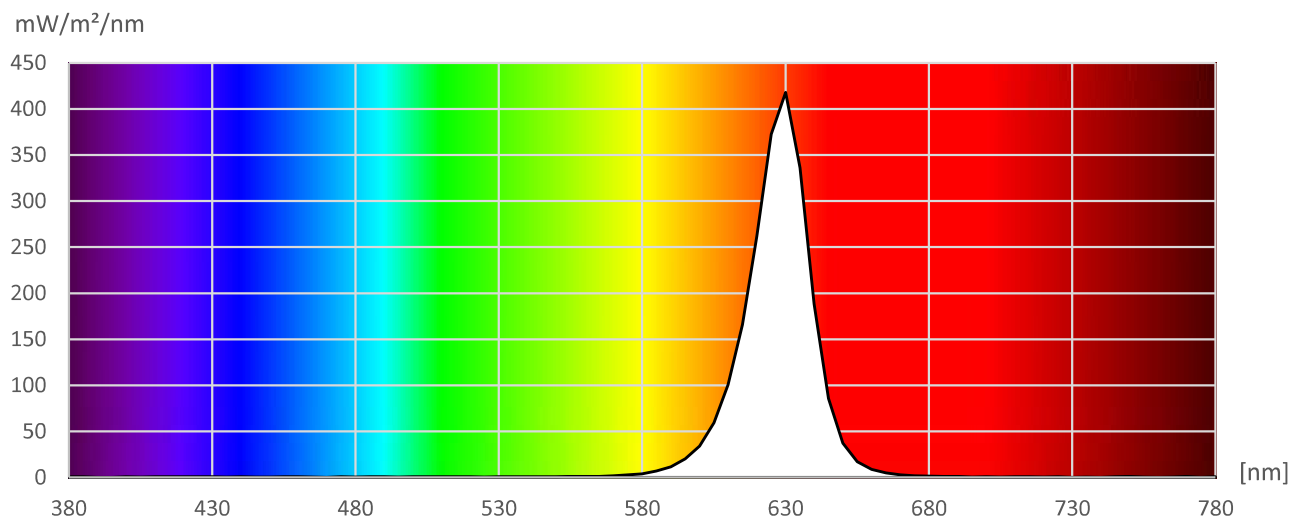
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / red

Measurement file: 414200\_data\_1m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:04



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D-96138 Burgebrach, Germany

Burgebrach, 18.04.2018

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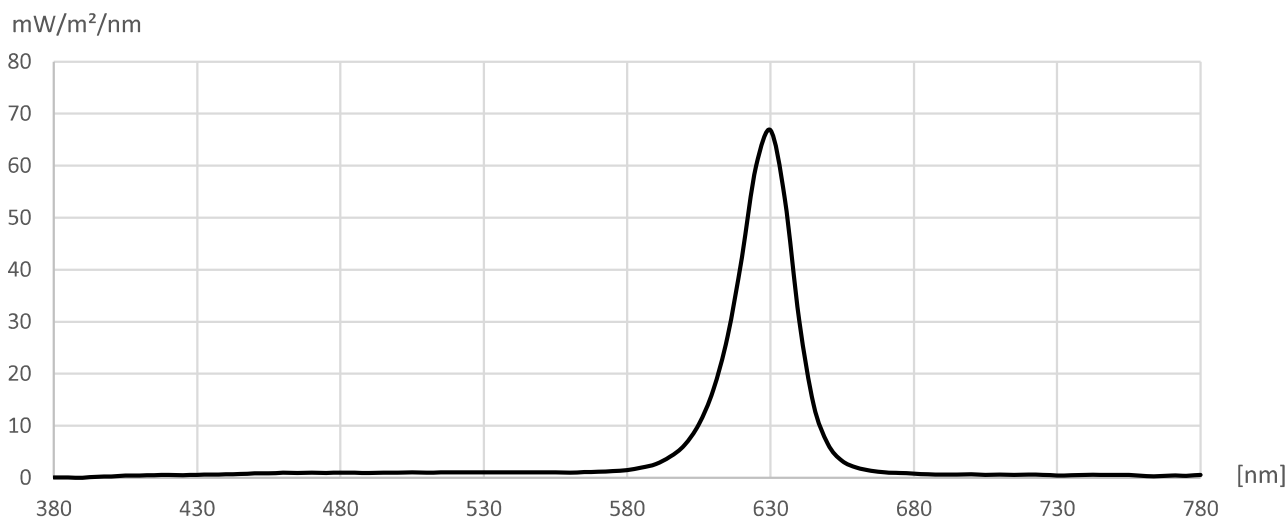
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / red

Measurement file: 414200\_data\_3m\_red.i  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:14



|         |         |                                    |            |             |
|---------|---------|------------------------------------|------------|-------------|
| R1 = -  | Ra = -  | Illuminance                        | 430,94 lx  | CIE1931     |
| R2 = -  | Re = -  | Ee                                 | 1,977 W/m² | x = 0,6399  |
| R3 = -  | GAI = - | LER                                | 218,0 lm/W | y = 0,3178  |
| R4 = -  |         |                                    |            |             |
| R5 = -  |         | correlated color temperature (CCT) | < 1600 K   | CIE1976     |
| R6 = -  |         | Duv                                | -          | u' = 0,4626 |
| R7 = -  |         |                                    |            | v' = 0,5169 |
| R8 = -  |         | Saturation                         | 87,5 %     |             |
| R9 = -  |         |                                    |            | CIE1960     |
| R10 = - |         | Dominant wavelength                | 620 nm     | u = 0,4626  |
| R11 = - |         | Peak wavelength                    | 628 nm     | v = 0,3446  |
| R12 = - |         |                                    |            |             |
| R13 = - |         | Flicker frequency                  | % < 2.5 Hz | TM30        |
| R14 = - |         | Percent Flicker                    | < 2.5 %    | Rf = -      |
| R15 = - |         | Flicker index                      | % < 2.5    | Rg = -      |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 0,06     | 440  | 0,64     | 500  | 0,99     | 560  | 0,99     | 620  | 42,40    | 680  | 0,80     | 740  | 0,55     |
| 385  | 0,03     | 445  | 0,72     | 505  | 1,01     | 565  | 1,09     | 625  | 59,92    | 685  | 0,65     | 745  | 0,57     |
| 390  | 0,01     | 450  | 0,83     | 510  | 0,98     | 570  | 1,15     | 630  | 66,80    | 690  | 0,60     | 750  | 0,56     |
| 395  | 0,19     | 455  | 0,84     | 515  | 1,01     | 575  | 1,26     | 635  | 53,60    | 695  | 0,60     | 755  | 0,52     |
| 400  | 0,25     | 460  | 0,95     | 520  | 1,01     | 580  | 1,47     | 640  | 30,29    | 700  | 0,64     | 760  | 0,37     |
| 405  | 0,42     | 465  | 0,93     | 525  | 1,02     | 585  | 1,94     | 645  | 14,08    | 705  | 0,57     | 765  | 0,28     |
| 410  | 0,44     | 470  | 0,95     | 530  | 1,01     | 590  | 2,64     | 650  | 6,54     | 710  | 0,63     | 770  | 0,44     |
| 415  | 0,50     | 475  | 0,94     | 535  | 1,04     | 595  | 4,02     | 655  | 3,24     | 715  | 0,56     | 775  | 0,37     |
| 420  | 0,52     | 480  | 0,97     | 540  | 1,02     | 600  | 6,26     | 660  | 1,96     | 720  | 0,59     | 780  | 0,57     |
| 425  | 0,51     | 485  | 0,95     | 545  | 1,02     | 605  | 10,27    | 665  | 1,37     | 725  | 0,55     |      |          |
| 430  | 0,57     | 490  | 0,91     | 550  | 1,02     | 610  | 16,82    | 670  | 1,01     | 730  | 0,44     |      |          |
| 435  | 0,60     | 495  | 0,98     | 555  | 1,05     | 615  | 27,14    | 675  | 0,93     | 735  | 0,46     |      |          |

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D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

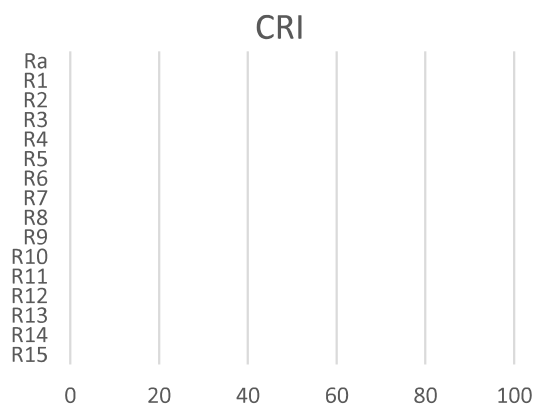
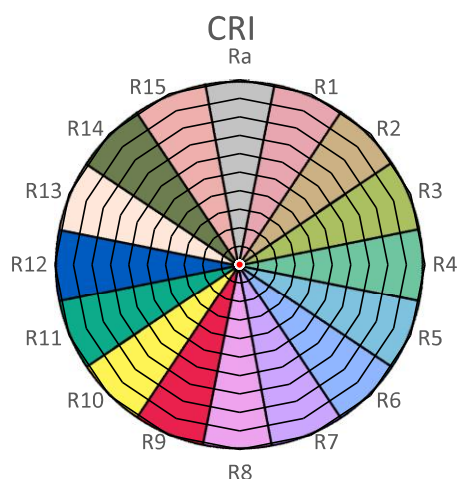
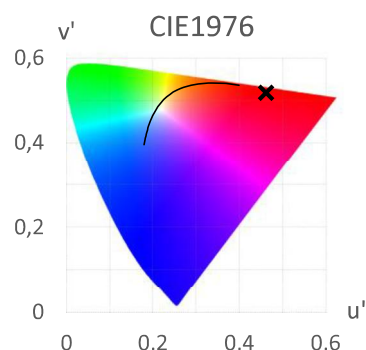
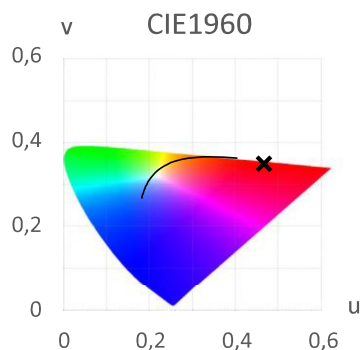
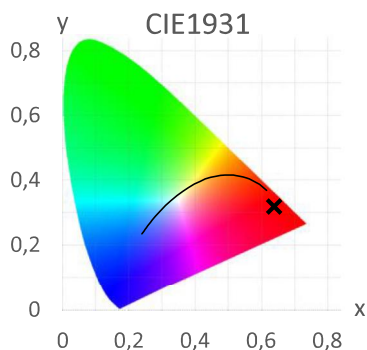
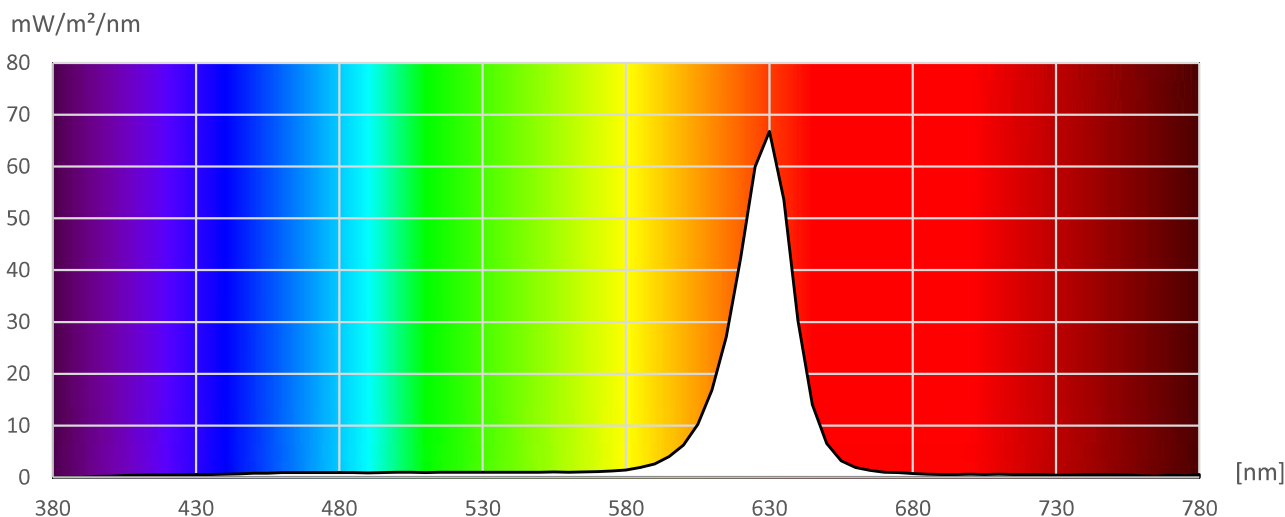
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / red

Measurement file: 414200\_data\_3m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:14



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Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Sebastian Laske

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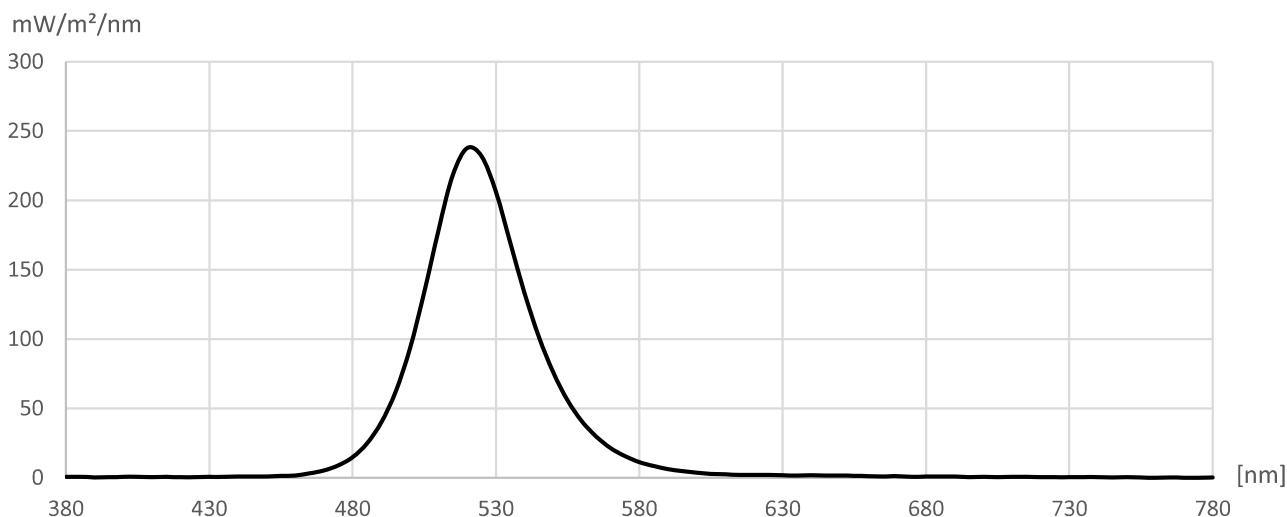


# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / green

Measurement file: 414200\_data\_1m\_gree  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:49



|             |            |
|-------------|------------|
| R1 = -31,2  | Ra = -15,0 |
| R2 = 0,9    | Re = -44,8 |
| R3 = -3,5   | GAI = 1,3  |
| R4 = -54,5  |            |
| R5 = -6,5   |            |
| R6 = -5,8   |            |
| R7 = 6,0    |            |
| R8 = -25,5  |            |
| R9 = #####  |            |
| R10 = -84,5 |            |
| R11 = -81,7 |            |
| R12 = -19,3 |            |
| R13 = -34,9 |            |
| R14 = 48,5  |            |
| R15 = -35,8 |            |

|                                    |             |
|------------------------------------|-------------|
| Illuminance                        | 5211,52 lx  |
| Ee                                 | 10,907 W/m² |
| LER                                | 477,8 lm/W  |
| correlated color temperature (CCT) | 7770 K      |
| Duv                                | 0,152       |
| Saturation                         | 73,6 %      |
| Dominant wavelength                | 524 nm      |
| Peak wavelength                    | 522 nm      |
| Flicker frequency                  | % < 2.5 Hz  |
| Percent Flicker                    | < 2.5 %     |
| Flicker index                      | % < 2.5     |

|             |
|-------------|
| CIE1931     |
| x = 0,1803  |
| y = 0,7006  |
| CIE1976     |
| u' = 0,0653 |
| v' = 0,5708 |
| CIE1960     |
| u = 0,0653  |
| v = 0,3805  |
| TM30        |
| Rf = 2,1    |
| Rg = 13,6   |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 0,59     | 440  | 0,82     | 500  | 93,29    | 560  | 40,52    | 620  | 1,94     | 680  | 0,79     | 740  | 0,49     |
| 385  | 0,61     | 445  | 0,82     | 505  | 134,22   | 565  | 29,77    | 625  | 2,05     | 685  | 0,81     | 745  | 0,09     |
| 390  | 0,29     | 450  | 0,97     | 510  | 179,20   | 570  | 21,41    | 630  | 1,75     | 690  | 0,84     | 750  | 0,46     |
| 395  | 0,39     | 455  | 1,28     | 515  | 218,39   | 575  | 15,61    | 635  | 1,57     | 695  | 0,48     | 755  | 0,11     |
| 400  | 0,59     | 460  | 1,68     | 520  | 237,79   | 580  | 11,26    | 640  | 1,70     | 700  | 0,60     | 760  | 0,00     |
| 405  | 0,76     | 465  | 3,11     | 525  | 231,71   | 585  | 8,40     | 645  | 1,56     | 705  | 0,46     | 765  | 0,20     |
| 410  | 0,49     | 470  | 5,22     | 530  | 205,97   | 590  | 6,25     | 650  | 1,65     | 710  | 0,73     | 770  | 0,06     |
| 415  | 0,54     | 475  | 8,89     | 535  | 169,14   | 595  | 4,71     | 655  | 1,45     | 715  | 0,69     | 775  | 0,05     |
| 420  | 0,32     | 480  | 14,90    | 540  | 133,23   | 600  | 3,72     | 660  | 1,19     | 720  | 0,38     | 780  | 0,12     |
| 425  | 0,36     | 485  | 24,71    | 545  | 101,47   | 605  | 2,84     | 665  | 0,97     | 725  | 0,34     |      |          |
| 430  | 0,63     | 490  | 39,78    | 550  | 75,87    | 610  | 2,41     | 670  | 1,22     | 730  | 0,31     |      |          |
| 435  | 0,56     | 495  | 62,04    | 555  | 55,63    | 615  | 2,04     | 675  | 0,68     | 735  | 0,44     |      |          |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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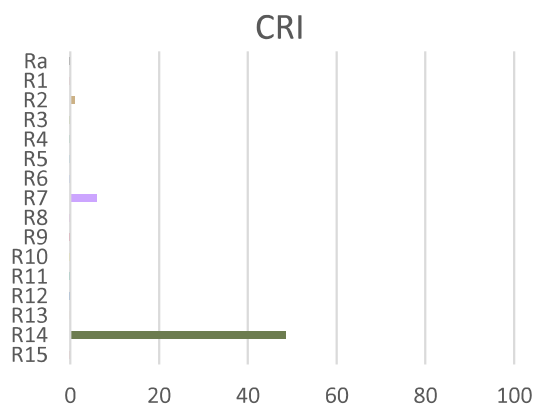
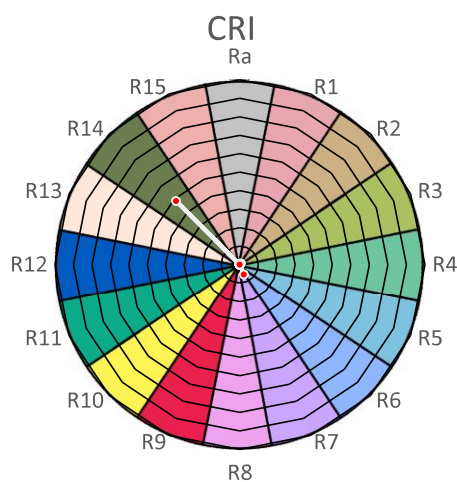
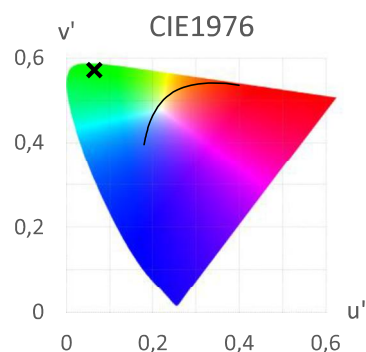
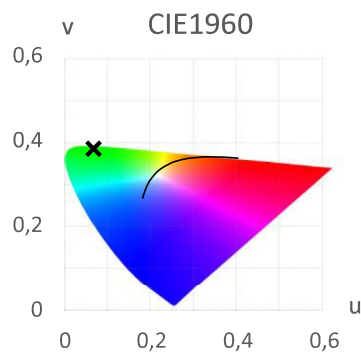
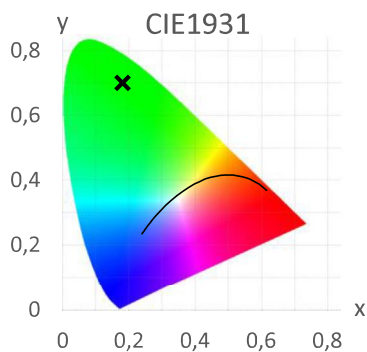
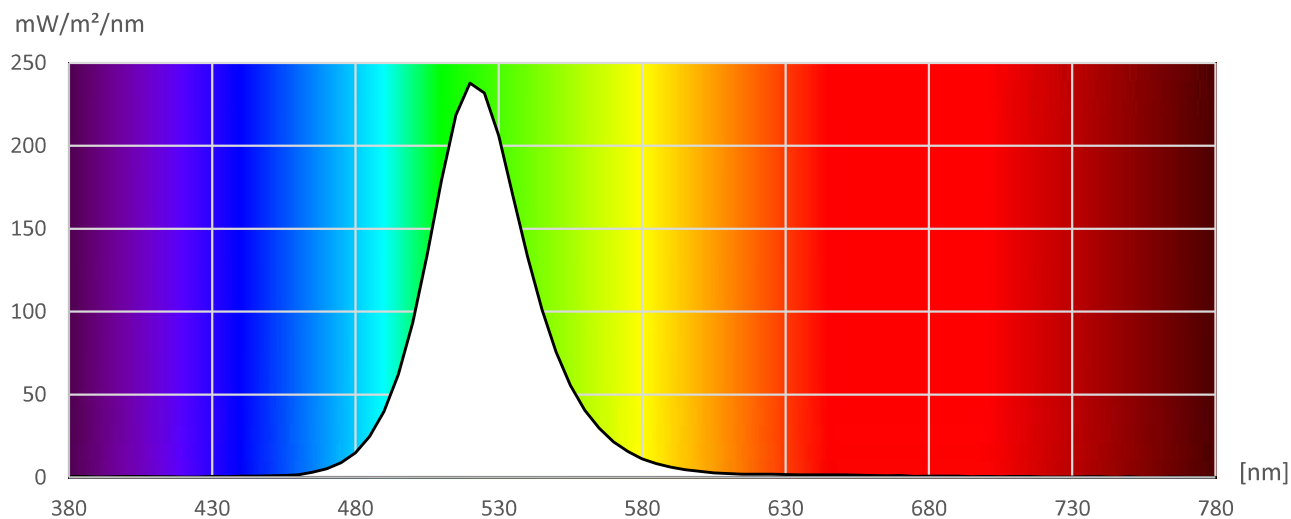
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / green

Measurement file: 414200\_data\_1m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:49



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D-96138 Burgebrach, Germany

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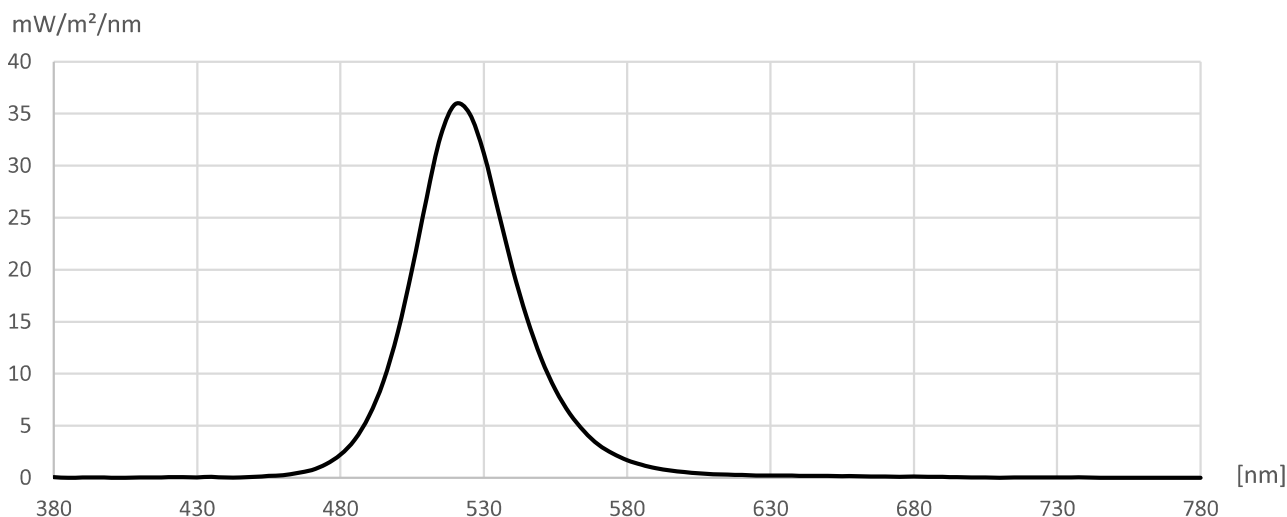
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / green

Measurement file: 414200\_data\_3m\_gree  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:58



|             |            |
|-------------|------------|
| R1 = -31,9  | Ra = -16,6 |
| R2 = -0,2   | Re = -46,4 |
| R3 = -5,8   | GAI = 1,2  |
| R4 = -56,8  |            |
| R5 = -7,1   |            |
| R6 = -6,8   |            |
| R7 = 3,1    |            |
| R8 = -27,4  |            |
| R9 = #####  |            |
| R10 = -86,8 |            |
| R11 = -84,1 |            |
| R12 = -19,9 |            |
| R13 = -35,8 |            |
| R14 = 47,4  |            |
| R15 = -36,6 |            |

|                                    |            |
|------------------------------------|------------|
| Illuminance                        | 786,02 lx  |
| Ee                                 | 1,632 W/m² |
| LER                                | 481,5 lm/W |
| correlated color temperature (CCT) | 7766 K     |
| Duv                                | 0,1526     |
| Saturation                         | 74,1 %     |
| Dominant wavelength                | 524 nm     |
| Peak wavelength                    | 522 nm     |
| Flicker frequency                  | % < 2.5 Hz |
| Percent Flicker                    | < 2.5 %    |
| Flicker index                      | % < 2.5    |

|             |
|-------------|
| CIE1931     |
| x = 0,1796  |
| y = 0,7037  |
| CIE1976     |
| u' = 0,0648 |
| v' = 0,5713 |
| CIE1960     |
| u = 0,0648  |
| v = 0,3809  |
| TM30        |
| Rf = 1,7    |
| Rg = 12,4   |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 0,05     | 440  | 0,02     | 500  | 14,00    | 560  | 6,14     | 620  | 0,26     | 680  | 0,13     | 740  | 0,04     |
| 385  | 0,00     | 445  | 0,04     | 505  | 20,10    | 565  | 4,46     | 625  | 0,22     | 685  | 0,09     | 745  | 0,00     |
| 390  | 0,01     | 450  | 0,07     | 510  | 26,89    | 570  | 3,19     | 630  | 0,22     | 690  | 0,07     | 750  | 0,01     |
| 395  | 0,04     | 455  | 0,16     | 515  | 32,85    | 575  | 2,33     | 635  | 0,21     | 695  | 0,05     | 755  | 0,00     |
| 400  | 0,01     | 460  | 0,25     | 520  | 35,90    | 580  | 1,68     | 640  | 0,19     | 700  | 0,03     | 760  | 0,00     |
| 405  | 0,01     | 465  | 0,45     | 525  | 35,02    | 585  | 1,24     | 645  | 0,18     | 705  | 0,02     | 765  | 0,00     |
| 410  | 0,02     | 470  | 0,75     | 530  | 31,18    | 590  | 0,91     | 650  | 0,18     | 710  | 0,00     | 770  | 0,00     |
| 415  | 0,04     | 475  | 1,33     | 535  | 25,62    | 595  | 0,69     | 655  | 0,15     | 715  | 0,03     | 775  | 0,00     |
| 420  | 0,04     | 480  | 2,23     | 540  | 20,16    | 600  | 0,53     | 660  | 0,16     | 720  | 0,01     | 780  | 0,00     |
| 425  | 0,05     | 485  | 3,66     | 545  | 15,41    | 605  | 0,42     | 665  | 0,11     | 725  | 0,02     |      |          |
| 430  | 0,04     | 490  | 5,94     | 550  | 11,49    | 610  | 0,35     | 670  | 0,12     | 730  | 0,01     |      |          |
| 435  | 0,07     | 495  | 9,27     | 555  | 8,43     | 615  | 0,29     | 675  | 0,08     | 735  | 0,02     |      |          |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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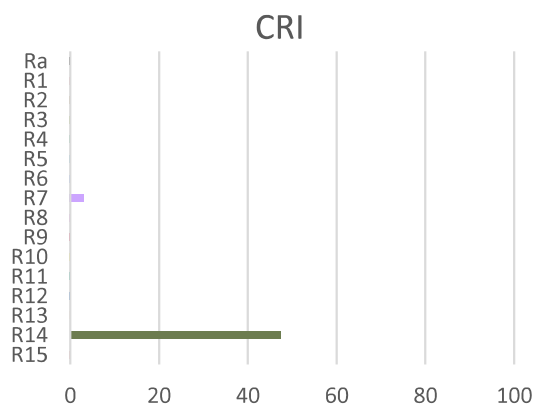
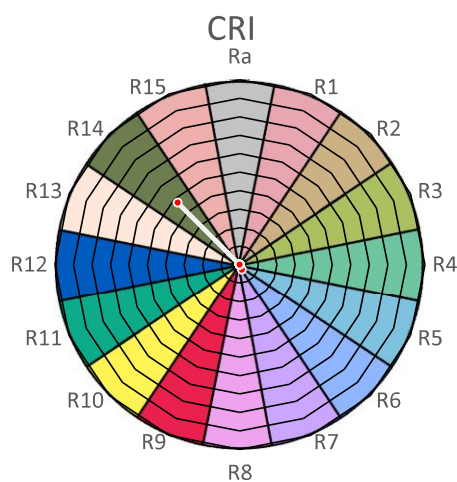
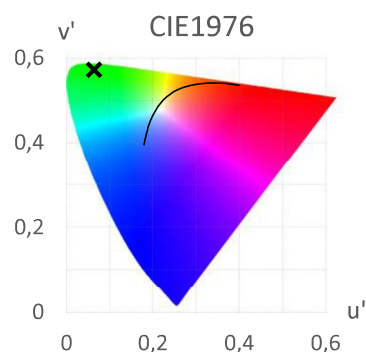
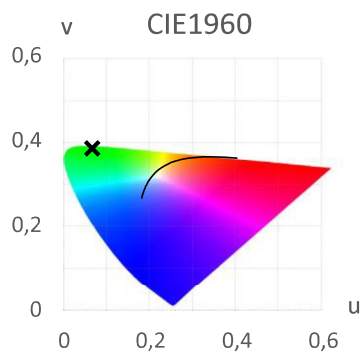
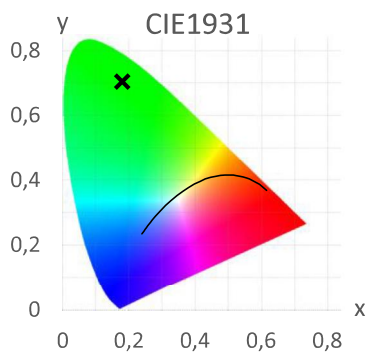
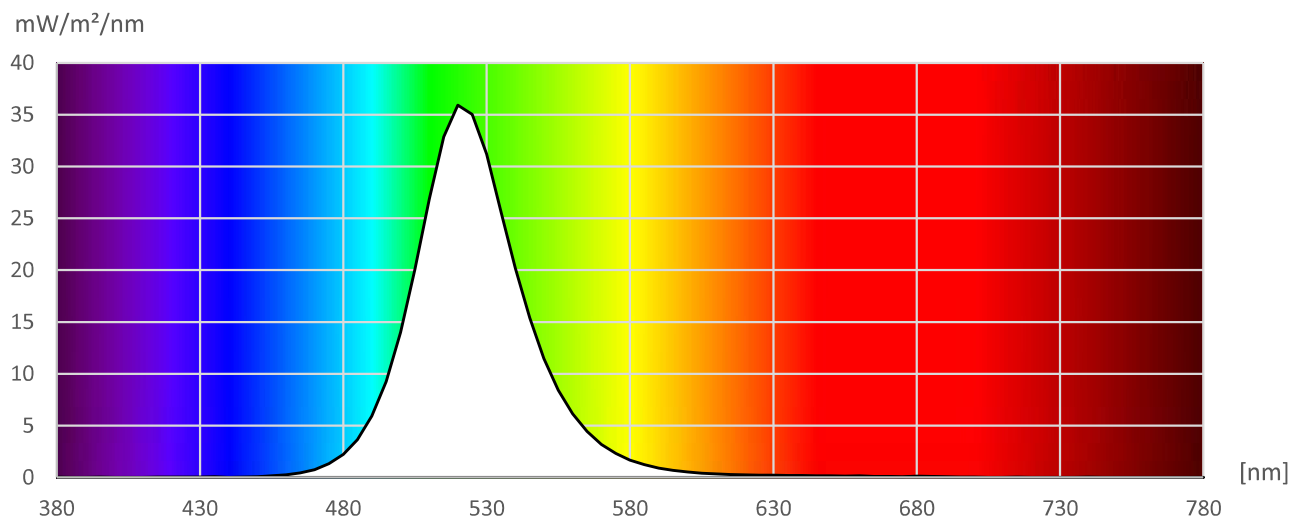
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / green

Measurement file: 414200\_data\_3m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:38:58



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D-96138 Burgebrach, Germany

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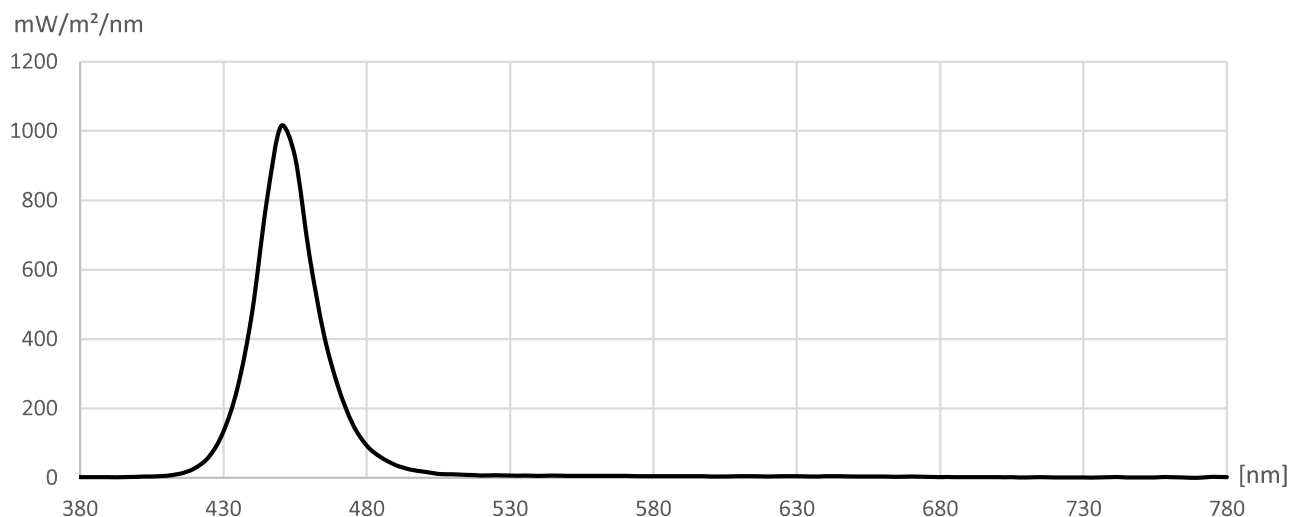
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / blue

Measurement file: 414200\_data\_1m\_blue  
Date of measurement: 18.04.2018  
Time of measurement: 16:39:34



|         |         |                                    |             |             |
|---------|---------|------------------------------------|-------------|-------------|
| R1 = -  | Ra = -  | Illuminance                        | 1314,55 lx  | CIE1931     |
| R2 = -  | Re = -  | Ee                                 | 28,150 W/m² | x = 0,1557  |
| R3 = -  | GAI = - | LER                                | 46,7 lm/W   | y = 0,0356  |
| R4 = -  |         |                                    |             |             |
| R5 = -  |         | correlated color temperature (CCT) | > 50000 K   | CIE1976     |
| R6 = -  |         | Duv                                | -           | u' = 0,1998 |
| R7 = -  |         |                                    |             | v' = 0,1029 |
| R8 = -  |         | Saturation                         | 96,1 %      |             |
| R9 = -  |         |                                    |             | CIE1960     |
| R10 = - |         | Dominant wavelength                | 443 nm      | u = 0,1998  |
| R11 = - |         | Peak wavelength                    | 451 nm      | v = 0,0686  |
| R12 = - |         |                                    |             |             |
| R13 = - |         | Flicker frequency                  | % < 2.5 Hz  | TM30        |
| R14 = - |         | Percent Flicker                    | < 2.5 %     | Rf = -      |
| R15 = - |         | Flicker index                      | % < 2.5     | Rg = -      |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 1,95     | 440  | 476,44   | 500  | 17,18    | 560  | 5,14     | 620  | 3,96     | 680  | 1,92     | 740  | 2,13     |
| 385  | 1,81     | 445  | 791,91   | 505  | 11,20    | 565  | 4,98     | 625  | 4,16     | 685  | 2,10     | 745  | 1,17     |
| 390  | 1,86     | 450  | 1013,53  | 510  | 9,73     | 570  | 5,03     | 630  | 4,56     | 690  | 1,55     | 750  | 0,46     |
| 395  | 1,33     | 455  | 926,15   | 515  | 8,30     | 575  | 4,36     | 635  | 3,89     | 695  | 1,96     | 755  | 1,09     |
| 400  | 2,88     | 460  | 642,55   | 520  | 6,68     | 580  | 4,28     | 640  | 4,01     | 700  | 1,30     | 760  | 2,02     |
| 405  | 3,65     | 465  | 415,41   | 525  | 7,29     | 585  | 4,46     | 645  | 4,08     | 705  | 1,26     | 765  | 0,31     |
| 410  | 5,66     | 470  | 262,77   | 530  | 5,90     | 590  | 4,44     | 650  | 3,63     | 710  | 1,09     | 770  | 0,28     |
| 415  | 12,23    | 475  | 155,67   | 535  | 6,50     | 595  | 4,21     | 655  | 3,63     | 715  | 1,48     | 775  | 2,31     |
| 420  | 27,08    | 480  | 92,17    | 540  | 5,74     | 600  | 3,93     | 660  | 3,56     | 720  | 0,80     | 780  | 1,82     |
| 425  | 61,65    | 485  | 58,56    | 545  | 6,12     | 605  | 3,77     | 665  | 2,78     | 725  | 0,95     |      |          |
| 430  | 132,60   | 490  | 37,08    | 550  | 5,40     | 610  | 4,10     | 670  | 3,14     | 730  | 0,74     |      |          |
| 435  | 261,57   | 495  | 23,96    | 555  | 5,42     | 615  | 4,16     | 675  | 2,71     | 735  | 0,37     |      |          |

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Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

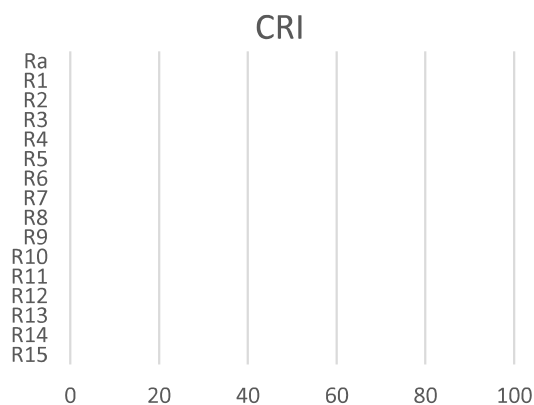
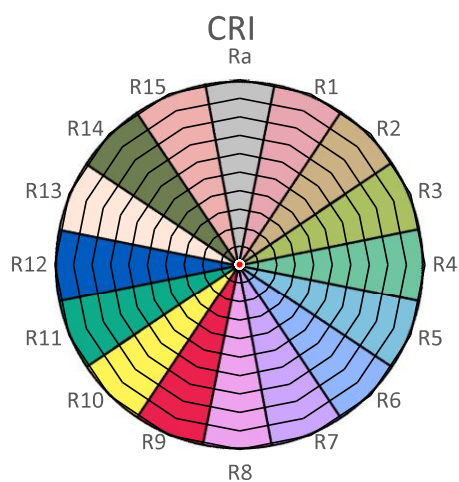
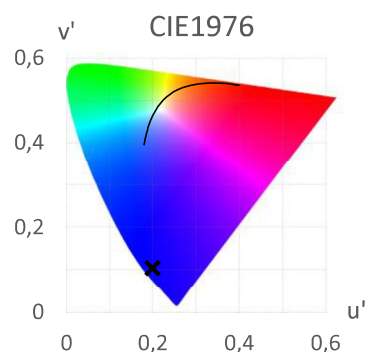
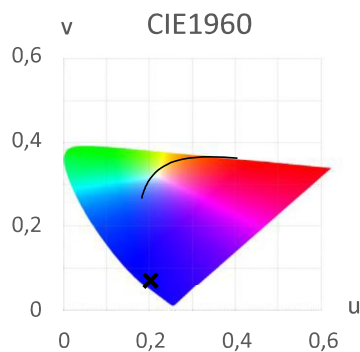
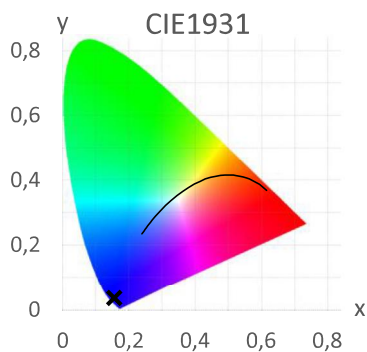
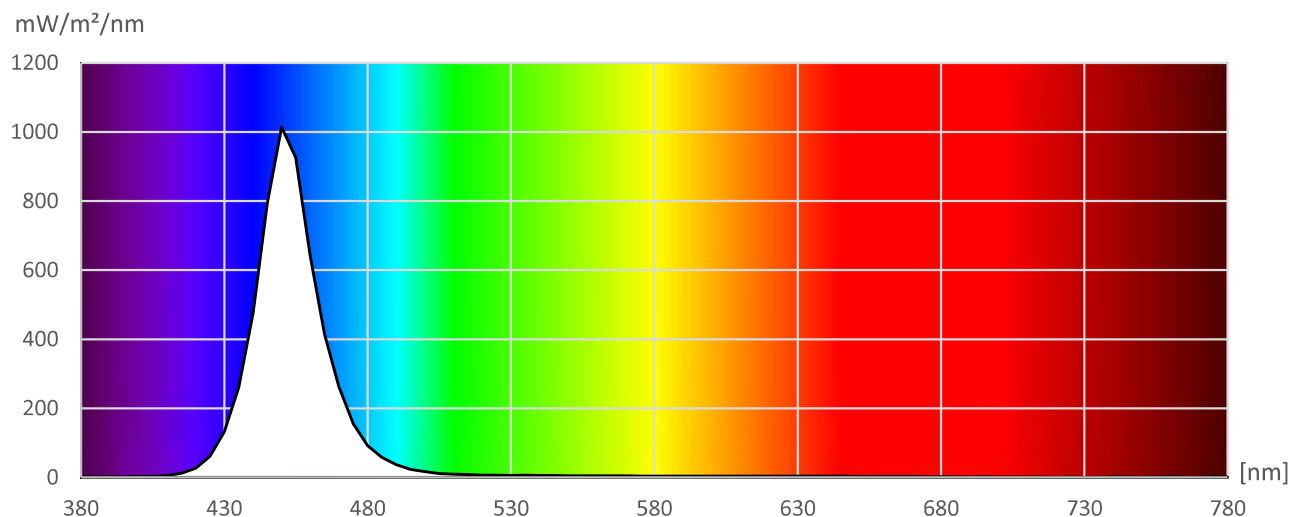
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / blue

Measurement file: 414200\_data\_1m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:39:34



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Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

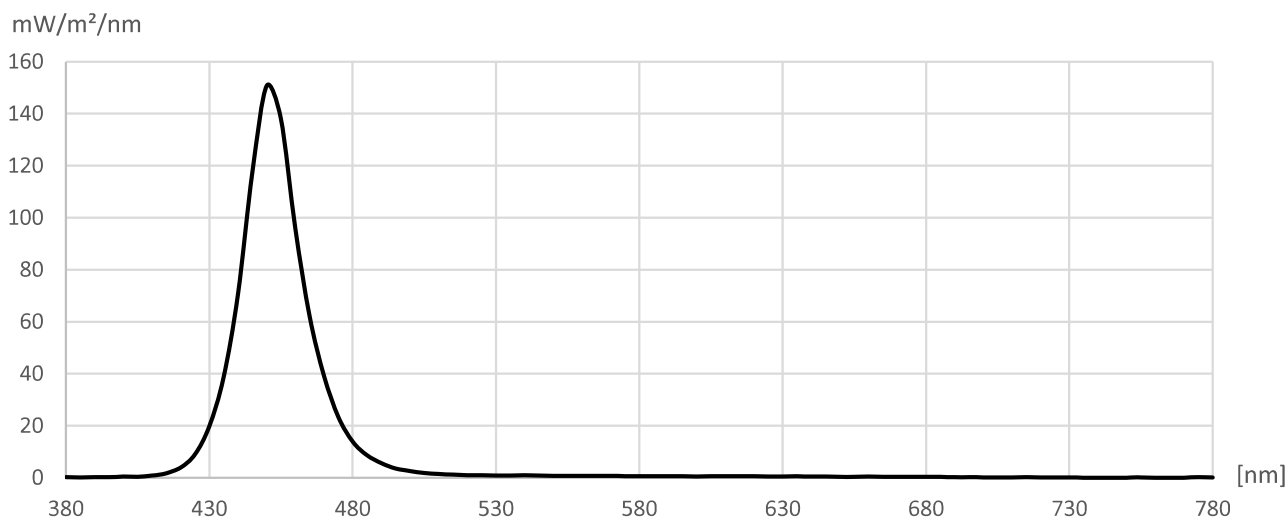
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / blue

Measurement file: 414200\_data\_3m\_blue  
Date of measurement: 18.04.2018  
Time of measurement: 16:39:42



|         |         |                                    |            |             |
|---------|---------|------------------------------------|------------|-------------|
| R1 = -  | Ra = -  | Illuminance                        | 192,36 lx  | CIE1931     |
| R2 = -  | Re = -  | Ee                                 | 4,168 W/m² | x = 0,1551  |
| R3 = -  | GAI = - | LER                                | 46,2 lm/W  | y = 0,0351  |
| R4 = -  |         |                                    |            |             |
| R5 = -  |         | correlated color temperature (CCT) | > 50000 K  | CIE1976     |
| R6 = -  |         | Duv                                | -          | u' = 0,1994 |
| R7 = -  |         |                                    |            | v' = 0,1015 |
| R8 = -  |         | Saturation                         | 96,4 %     |             |
| R9 = -  |         |                                    |            | CIE1960     |
| R10 = - |         | Dominant wavelength                | 444 nm     | u = 0,1994  |
| R11 = - |         | Peak wavelength                    | 451 nm     | v = 0,0677  |
| R12 = - |         |                                    |            |             |
| R13 = - |         | Flicker frequency                  | % < 2.5 Hz | TM30        |
| R14 = - |         | Percent Flicker                    | < 2.5 %    | Rf = -      |
| R15 = - |         | Flicker index                      | % < 2.5    | Rg = -      |

| [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm | [nm] | mW/m²/nm |
|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|
| 380  | 0,25     | 440  | 70,47    | 500  | 2,62     | 560  | 0,71     | 620  | 0,57     | 680  | 0,36     | 740  | 0,00     |
| 385  | 0,11     | 445  | 117,38   | 505  | 1,77     | 565  | 0,68     | 625  | 0,51     | 685  | 0,31     | 745  | 0,00     |
| 390  | 0,26     | 450  | 150,76   | 510  | 1,47     | 570  | 0,66     | 630  | 0,51     | 690  | 0,16     | 750  | 0,01     |
| 395  | 0,24     | 455  | 138,24   | 515  | 1,15     | 575  | 0,65     | 635  | 0,54     | 695  | 0,20     | 755  | 0,16     |
| 400  | 0,41     | 460  | 96,14    | 520  | 1,01     | 580  | 0,55     | 640  | 0,44     | 700  | 0,16     | 760  | 0,00     |
| 405  | 0,39     | 465  | 62,13    | 525  | 0,94     | 585  | 0,61     | 645  | 0,48     | 705  | 0,10     | 765  | 0,00     |
| 410  | 0,79     | 470  | 39,21    | 530  | 0,88     | 590  | 0,62     | 650  | 0,29     | 710  | 0,14     | 770  | 0,02     |
| 415  | 1,75     | 475  | 23,33    | 535  | 0,87     | 595  | 0,56     | 655  | 0,36     | 715  | 0,18     | 775  | 0,24     |
| 420  | 3,96     | 480  | 13,82    | 540  | 0,91     | 600  | 0,48     | 660  | 0,41     | 720  | 0,09     | 780  | 0,08     |
| 425  | 9,03     | 485  | 8,67     | 545  | 0,82     | 605  | 0,58     | 665  | 0,36     | 725  | 0,11     |      |          |
| 430  | 19,70    | 490  | 5,59     | 550  | 0,74     | 610  | 0,57     | 670  | 0,39     | 730  | 0,08     |      |          |
| 435  | 38,56    | 495  | 3,60     | 555  | 0,71     | 615  | 0,57     | 675  | 0,33     | 735  | 0,03     |      |          |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Sebastian Laske

Burgebrach, 18.04.2018

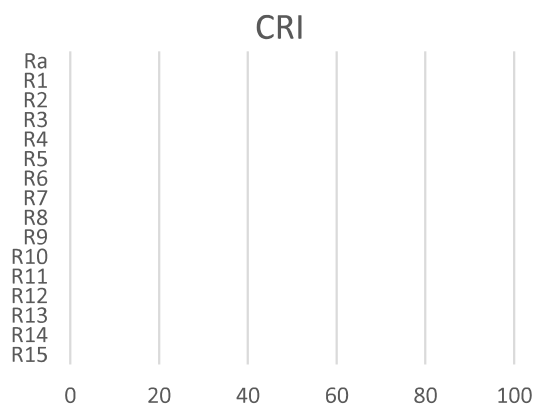
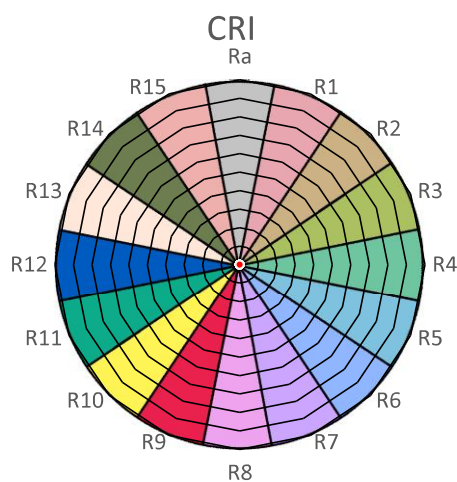
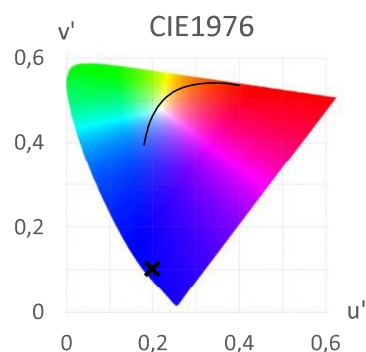
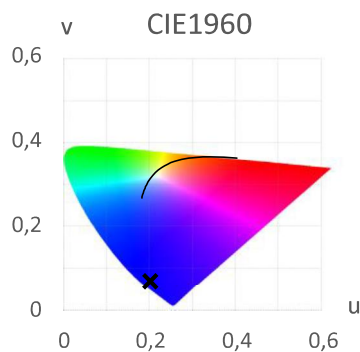
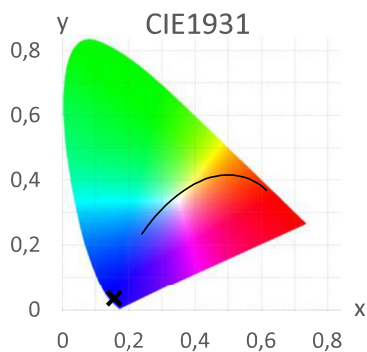
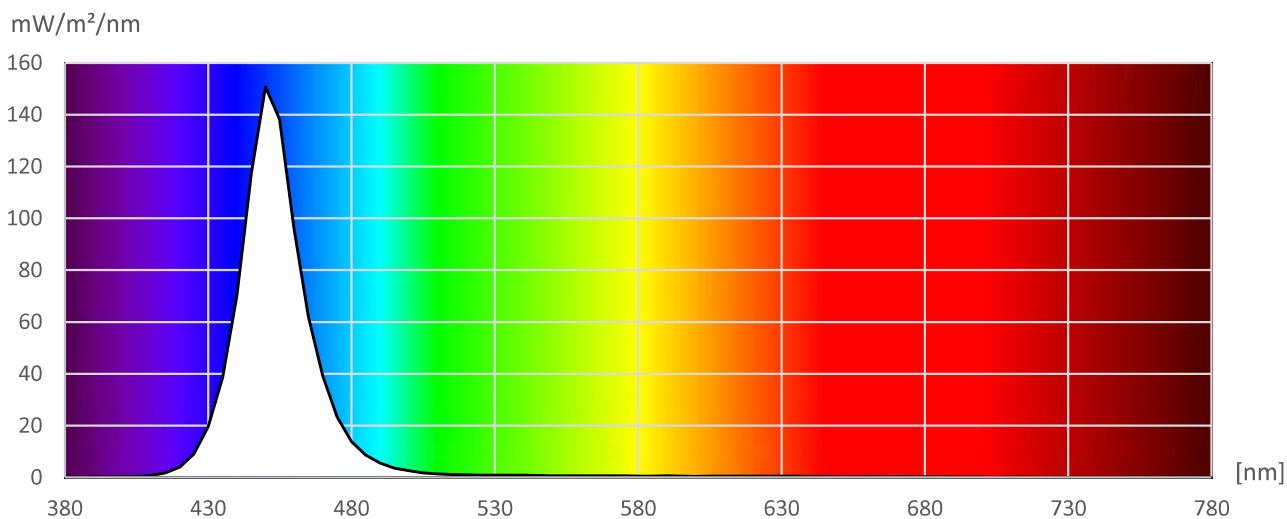
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / blue

Measurement file: 414200\_data\_3m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:39:42



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D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

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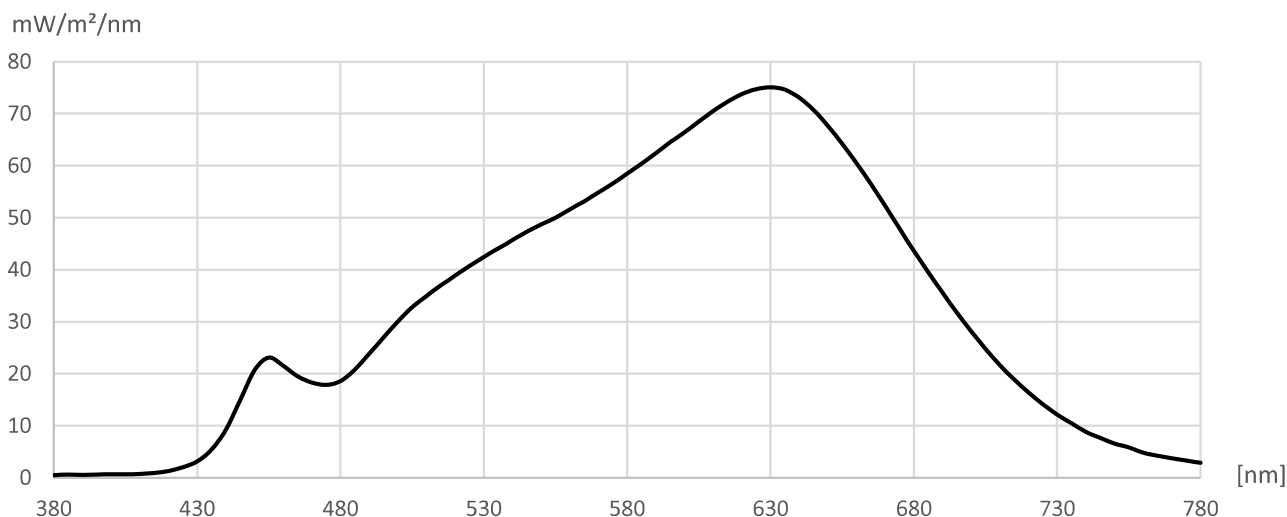


# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / warm white

Measurement file: 414200\_data\_1m\_ww.  
Date of measurement: 18.04.2018  
Time of measurement: 16:40:41



|            |            |                                    |                         |             |
|------------|------------|------------------------------------|-------------------------|-------------|
| R1 = 93,6  | Ra = 93,7  | Illuminance                        | 3759,51 lx              | CIE1931     |
| R2 = 95,5  | Re = 90,8  | Ee                                 | 13,103 W/m <sup>2</sup> | x = 0,4487  |
| R3 = 97,3  | GAI = 44,0 | LER                                | 286,9 lm/W              | y = 0,4241  |
| R4 = 93,4  |            |                                    |                         |             |
| R5 = 92,6  |            | correlated color temperature (CCT) | 2958 K                  | CIE1976     |
| R6 = 95,6  |            | Duv                                | 0,0062                  | u' = 0,2496 |
| R7 = 94,9  |            |                                    |                         | v' = 0,5307 |
| R8 = 86,4  |            | Saturation                         | 61,9 %                  |             |
| R9 = 67,3  |            |                                    |                         | CIE1960     |
| R10 = 89,5 |            | Dominant wavelength                | 580 nm                  | u = 0,2496  |
| R11 = 94,4 |            | Peak wavelength                    | 628 nm                  | v = 0,3538  |
| R12 = 80,6 |            |                                    |                         |             |
| R13 = 93,8 |            | Flicker frequency                  | % < 2.5 Hz              | TM30        |
| R14 = 97,9 |            | Percent Flicker                    | < 2.5 %                 | Rf = 89,8   |
| R15 = 88,9 |            | Flicker index                      | % < 2.5                 | Rg = 94,9   |

| [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380  | 0,50                  | 440  | 9,19                  | 500  | 30,01                 | 560  | 51,61                 | 620  | 73,76                 | 680  | 43,67                 | 740  | 8,83                  |
| 385  | 0,62                  | 445  | 14,94                 | 505  | 32,80                 | 565  | 53,15                 | 625  | 74,71                 | 685  | 39,57                 | 745  | 7,67                  |
| 390  | 0,56                  | 450  | 20,67                 | 510  | 34,97                 | 570  | 54,85                 | 630  | 75,07                 | 690  | 35,59                 | 750  | 6,58                  |
| 395  | 0,63                  | 455  | 23,11                 | 515  | 36,94                 | 575  | 56,57                 | 635  | 74,62                 | 695  | 31,75                 | 755  | 5,84                  |
| 400  | 0,66                  | 460  | 21,54                 | 520  | 38,85                 | 580  | 58,44                 | 640  | 73,07                 | 700  | 28,13                 | 760  | 4,81                  |
| 405  | 0,65                  | 465  | 19,51                 | 525  | 40,69                 | 585  | 60,40                 | 645  | 70,71                 | 705  | 24,82                 | 765  | 4,21                  |
| 410  | 0,74                  | 470  | 18,32                 | 530  | 42,46                 | 590  | 62,43                 | 650  | 67,72                 | 710  | 21,70                 | 770  | 3,75                  |
| 415  | 0,91                  | 475  | 17,83                 | 535  | 44,08                 | 595  | 64,47                 | 655  | 64,24                 | 715  | 18,91                 | 775  | 3,30                  |
| 420  | 1,31                  | 480  | 18,60                 | 540  | 45,69                 | 600  | 66,39                 | 660  | 60,53                 | 720  | 16,39                 | 780  | 2,86                  |
| 425  | 2,03                  | 485  | 20,78                 | 545  | 47,27                 | 605  | 68,46                 | 665  | 56,50                 | 725  | 14,12                 |      |                       |
| 430  | 3,10                  | 490  | 23,80                 | 550  | 48,68                 | 610  | 70,48                 | 670  | 52,24                 | 730  | 12,16                 |      |                       |
| 435  | 5,39                  | 495  | 26,95                 | 555  | 50,00                 | 615  | 72,30                 | 675  | 47,88                 | 735  | 10,50                 |      |                       |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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Burgebrach, 18.04.2018

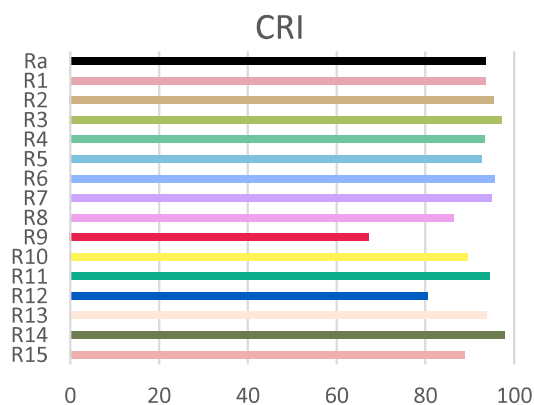
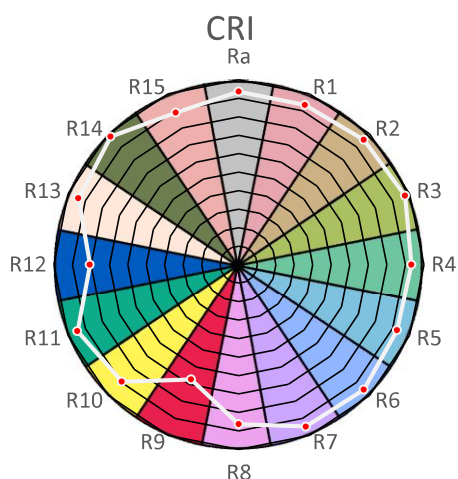
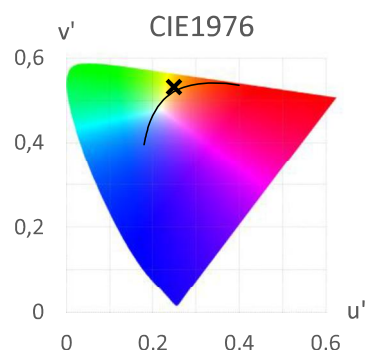
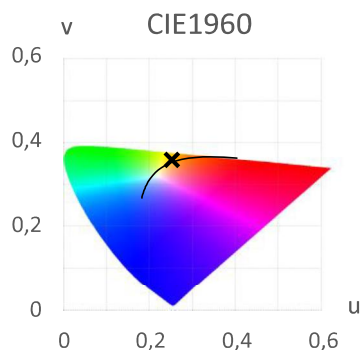
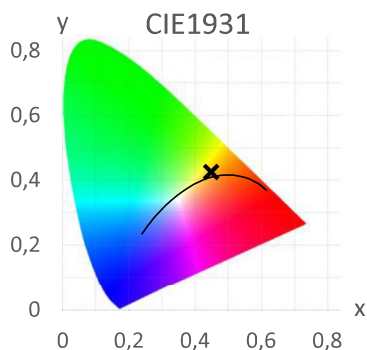
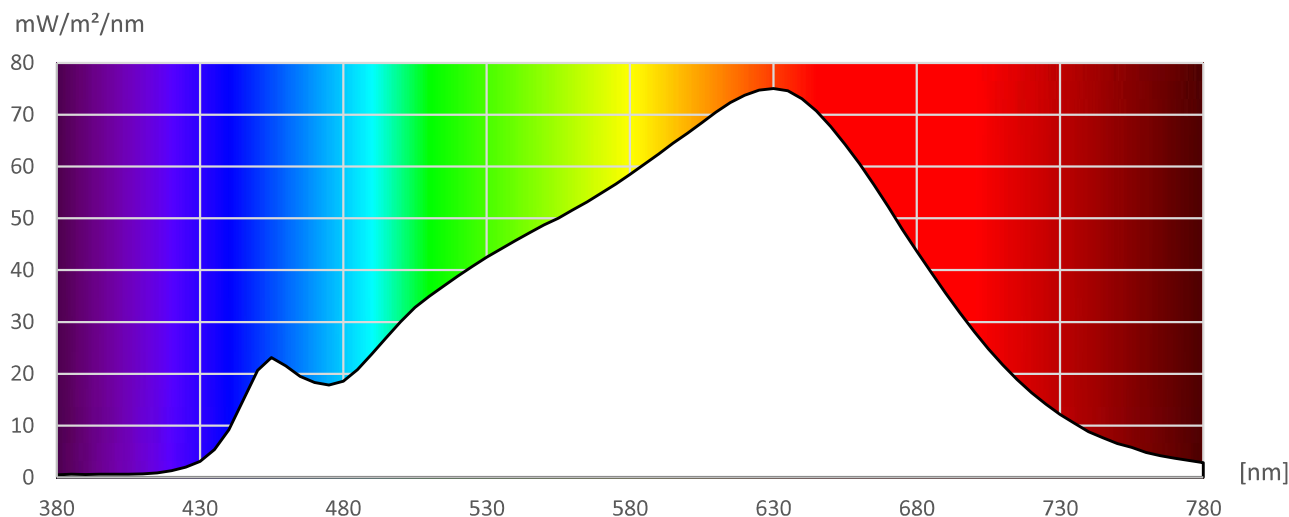
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 1 m / warm white

Measurement file: 414200\_data\_1m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:40:41



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D-96138 Burgebrach, Germany

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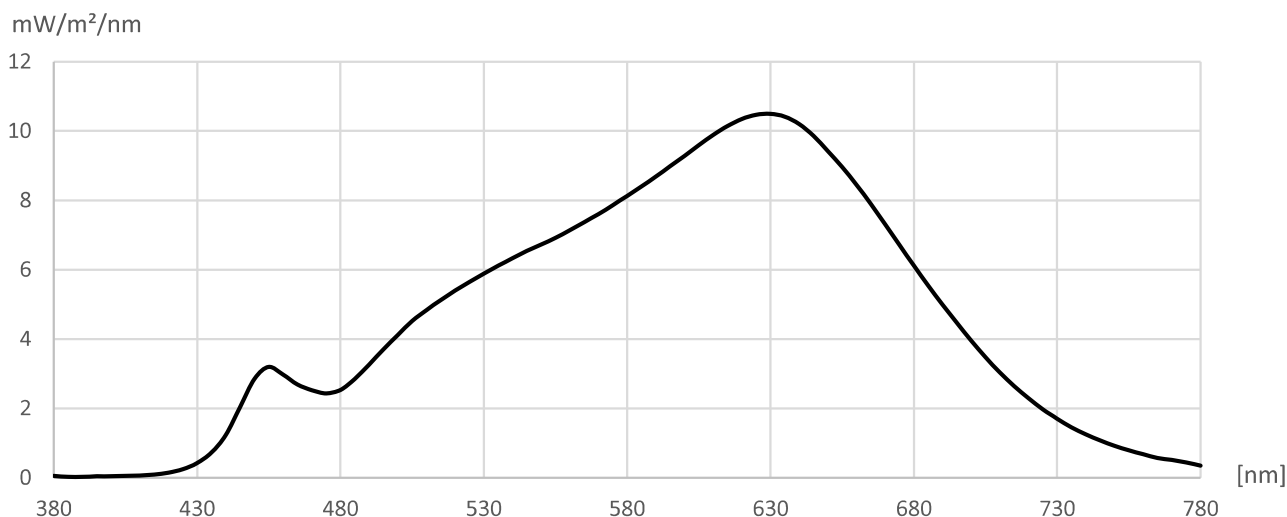
First, last name of inspector

# Measurement protocol

th.mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / warm white

Measurement file: 414200\_data\_3m\_ww.  
Date of measurement: 18.04.2018  
Time of measurement: 16:40:55



|            |            |                                    |                        |             |
|------------|------------|------------------------------------|------------------------|-------------|
| R1 = 93,7  | Ra = 93,8  | Illuminance                        | 522,45 lx              | CIE1931     |
| R2 = 95,6  | Re = 90,9  | Ee                                 | 1,821 W/m <sup>2</sup> | x = 0,4501  |
| R3 = 97,3  | GAI = 43,5 | LER                                | 286,9 lm/W             | y = 0,4242  |
| R4 = 93,6  |            |                                    |                        |             |
| R5 = 92,8  |            | correlated color temperature (CCT) | 2939 K                 | CIE1976     |
| R6 = 95,8  |            | Duv                                | 0,0061                 | u' = 0,2504 |
| R7 = 94,9  |            |                                    |                        | v' = 0,5310 |
| R8 = 86,4  |            | Saturation                         | 62,4 %                 |             |
| R9 = 67,3  |            |                                    |                        | CIE1960     |
| R10 = 89,7 |            | Dominant wavelength                | 580 nm                 | u = 0,2504  |
| R11 = 94,7 |            | Peak wavelength                    | 628 nm                 | v = 0,3540  |
| R12 = 80,6 |            |                                    |                        |             |
| R13 = 94,0 |            | Flicker frequency                  | % < 2.5 Hz             | TM30        |
| R14 = 97,9 |            | Percent Flicker                    | < 2.5 %                | Rf = 89,8   |
| R15 = 89,1 |            | Flicker index                      | % < 2.5                | Rg = 94,9   |

| [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm | [nm] | mW/m <sup>2</sup> /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380  | 0,05                  | 440  | 1,23                  | 500  | 4,12                  | 560  | 7,14                  | 620  | 10,34                 | 680  | 6,12                  | 740  | 1,25                  |
| 385  | 0,02                  | 445  | 2,05                  | 505  | 4,52                  | 565  | 7,37                  | 625  | 10,47                 | 685  | 5,54                  | 745  | 1,07                  |
| 390  | 0,03                  | 450  | 2,86                  | 510  | 4,84                  | 570  | 7,60                  | 630  | 10,49                 | 690  | 4,99                  | 750  | 0,92                  |
| 395  | 0,04                  | 455  | 3,20                  | 515  | 5,12                  | 575  | 7,86                  | 635  | 10,42                 | 695  | 4,47                  | 755  | 0,79                  |
| 400  | 0,04                  | 460  | 2,98                  | 520  | 5,39                  | 580  | 8,13                  | 640  | 10,20                 | 700  | 3,95                  | 760  | 0,68                  |
| 405  | 0,06                  | 465  | 2,69                  | 525  | 5,65                  | 585  | 8,40                  | 645  | 9,86                  | 705  | 3,48                  | 765  | 0,57                  |
| 410  | 0,06                  | 470  | 2,52                  | 530  | 5,88                  | 590  | 8,69                  | 650  | 9,43                  | 710  | 3,04                  | 770  | 0,51                  |
| 415  | 0,09                  | 475  | 2,43                  | 535  | 6,12                  | 595  | 8,98                  | 655  | 8,96                  | 715  | 2,65                  | 775  | 0,44                  |
| 420  | 0,14                  | 480  | 2,54                  | 540  | 6,33                  | 600  | 9,28                  | 660  | 8,45                  | 720  | 2,29                  | 780  | 0,35                  |
| 425  | 0,25                  | 485  | 2,85                  | 545  | 6,54                  | 605  | 9,59                  | 665  | 7,90                  | 725  | 1,97                  |      |                       |
| 430  | 0,42                  | 490  | 3,26                  | 550  | 6,73                  | 610  | 9,89                  | 670  | 7,30                  | 730  | 1,71                  |      |                       |
| 435  | 0,72                  | 495  | 3,70                  | 555  | 6,91                  | 615  | 10,14                 | 675  | 6,71                  | 735  | 1,45                  |      |                       |

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Sebastian Laske

Burgebrach, 18.04.2018

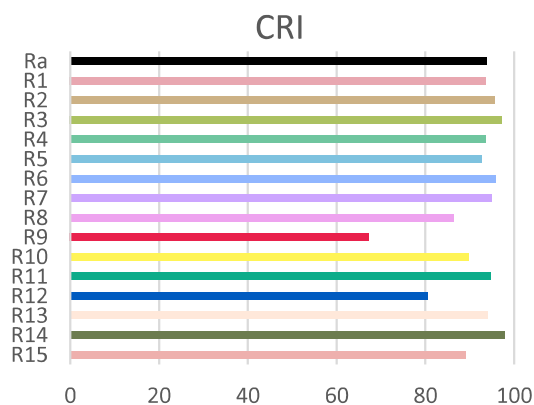
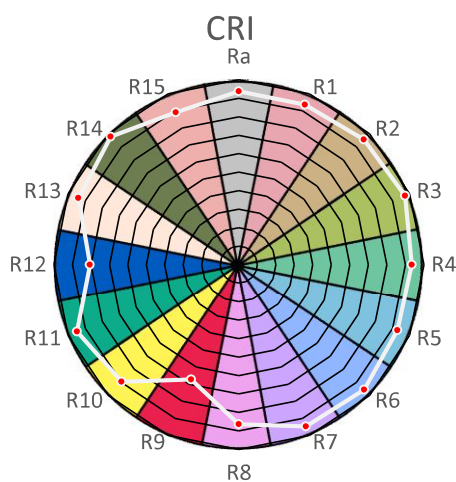
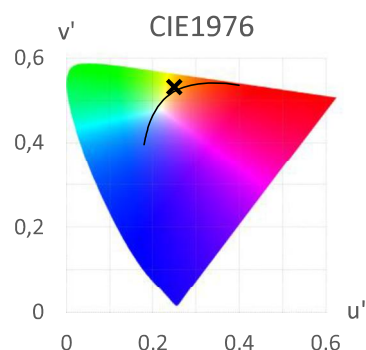
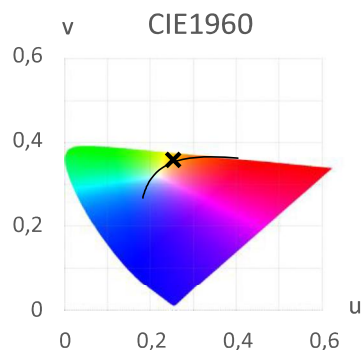
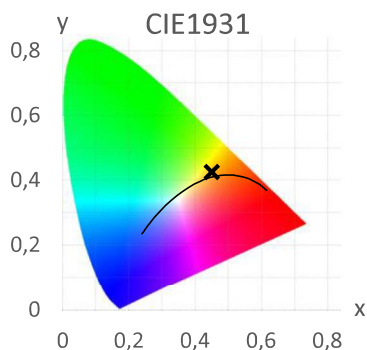
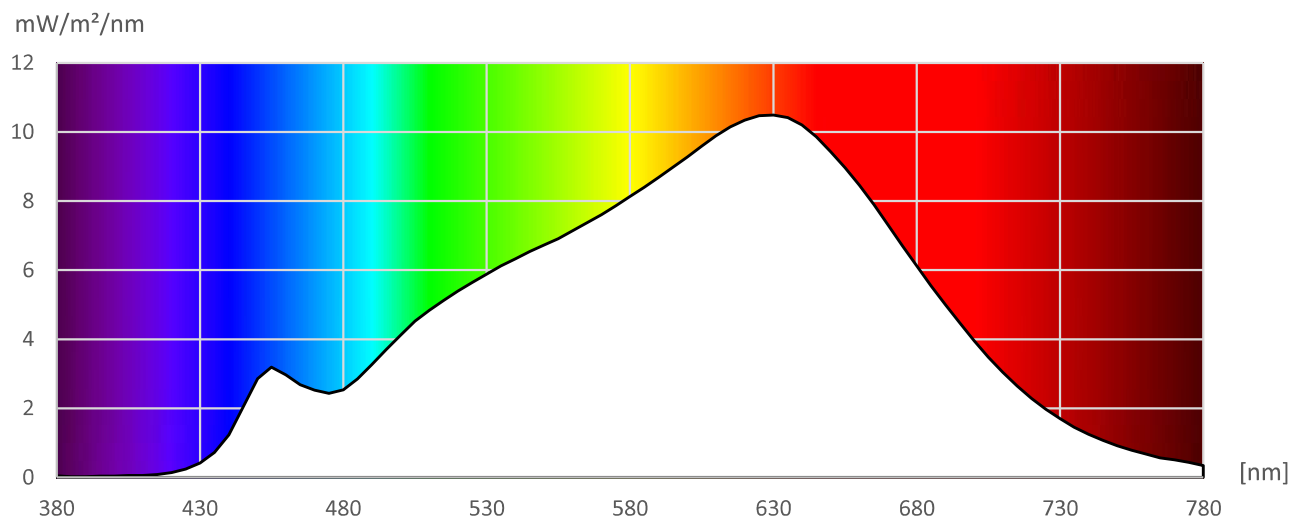
First, last name of inspector

# Measurement protocol

th•mann

Test object: Stairville  
RevueLED 120 COB RGB WW  
Item 414200 / @ 3 m / warm white

Measurement file: 414200\_data\_3m\_  
Date of measurement: 18.04.2018  
Time of measurement: 16:40:55



Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

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