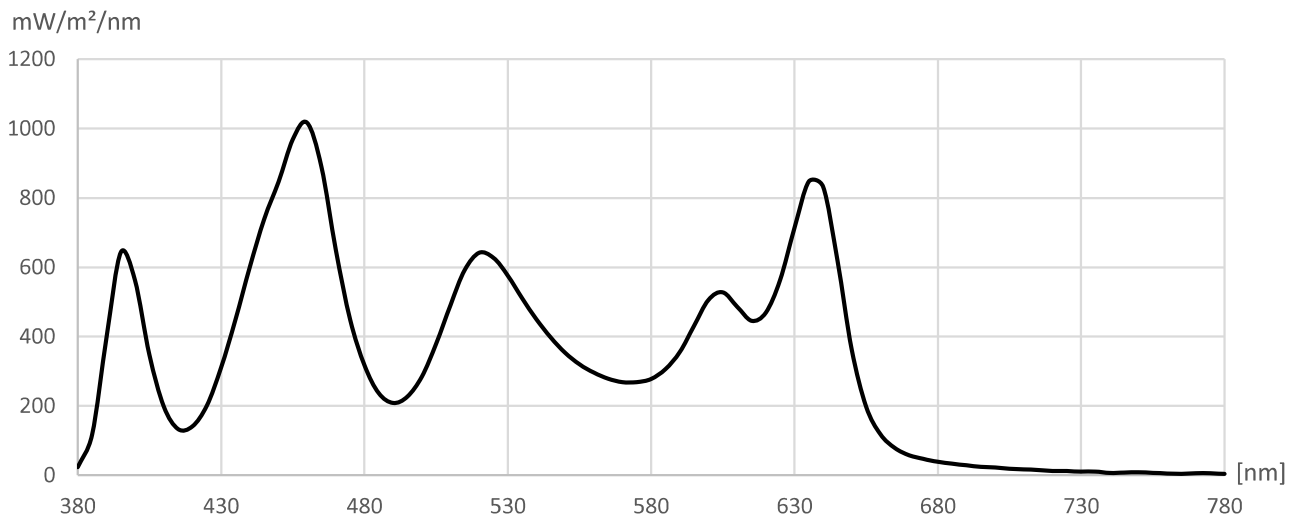


Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / all / @ 1 m

Measurement file: 481058_1m_all.CSV
 Date of measurement: 10.08.2020
 Time of measurement: 16:18:56



| | | | | |
|------------|-------------|------------------------------------|--------------------------|-------------|
| R1 = 57,8 | Ra = 70,1 | Illuminance | 30947,97 lx | CIE1931 |
| R2 = 81,5 | Re = 61,3 | Ee | 129,705 W/m ² | x = 0,3114 |
| R3 = 82,5 | GAI = 132,5 | LER | 238,6 lm/W | y = 0,2875 |
| R4 = 57,5 | | | | |
| R5 = 65,1 | | correlated color temperature (CCT) | 7075 K | CIE1976 |
| R6 = 77,6 | | Duv | -0,0191 | u' = 0,2138 |
| R7 = 85,9 | | Saturation | 16,3 % | v' = 0,4440 |
| R8 = 52,6 | | | | |
| R9 = -28,6 | | | | CIE1960 |
| R10 = 67,8 | | Dominant wavelength | #NV | u = 0,2138 |
| R11 = 45,3 | | Peak wavelength | 458 nm | v = 0,2960 |
| R12 = 77,3 | | | | |
| R13 = 62,0 | | Flicker frequency | 0 Hz | TM30 |
| R14 = 86,0 | | Percent Flicker | 1,8 % | Rf = 81,4 |
| R15 = 49,8 | | Flicker index | 0,003 | Rg = 115,3 |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 23,36 | 440 | 600,45 | 500 | 284,24 | 560 | 295,80 | 620 | 469,09 | 680 | 38,86 | 740 | 6,40 | | |
| 385 | 117,05 | 445 | 738,62 | 505 | 379,67 | 565 | 278,99 | 625 | 561,98 | 685 | 33,65 | 745 | 8,04 | | |
| 390 | 397,42 | 450 | 846,38 | 510 | 491,59 | 570 | 268,31 | 630 | 712,47 | 690 | 28,58 | 750 | 8,84 | | |
| 395 | 643,41 | 455 | 967,95 | 515 | 591,88 | 575 | 268,65 | 635 | 847,04 | 695 | 24,31 | 755 | 6,97 | | |
| 400 | 562,35 | 460 | 1017,07 | 520 | 641,47 | 580 | 277,81 | 640 | 831,65 | 700 | 22,34 | 760 | 5,04 | | |
| 405 | 347,38 | 465 | 890,00 | 525 | 627,32 | 585 | 306,38 | 645 | 617,42 | 705 | 18,80 | 765 | 3,92 | | |
| 410 | 198,26 | 470 | 649,60 | 530 | 575,63 | 590 | 355,62 | 650 | 363,39 | 710 | 17,31 | 770 | 6,07 | | |
| 415 | 133,34 | 475 | 448,10 | 535 | 510,25 | 595 | 430,71 | 655 | 198,80 | 715 | 14,74 | 775 | 5,42 | | |
| 420 | 141,19 | 480 | 316,28 | 540 | 450,25 | 600 | 505,55 | 660 | 117,77 | 720 | 12,70 | 780 | 3,92 | | |
| 425 | 201,26 | 485 | 236,95 | 545 | 397,24 | 605 | 527,55 | 665 | 78,78 | 725 | 12,12 | | | | |
| 430 | 309,46 | 490 | 208,39 | 550 | 352,91 | 610 | 486,19 | 670 | 57,82 | 730 | 10,46 | | | | |
| 435 | 447,74 | 495 | 226,96 | 555 | 319,84 | 615 | 445,76 | 675 | 46,92 | 735 | 10,89 | | | | |

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Burgebrach, 10.08.2020

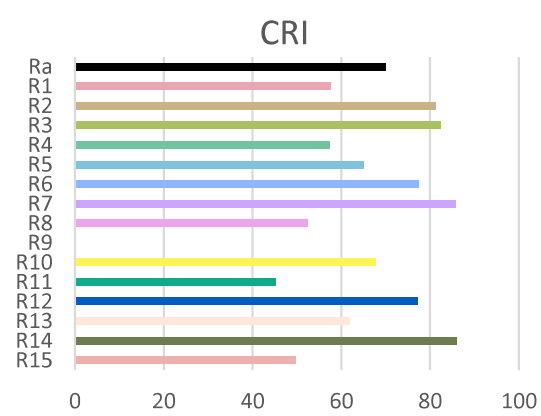
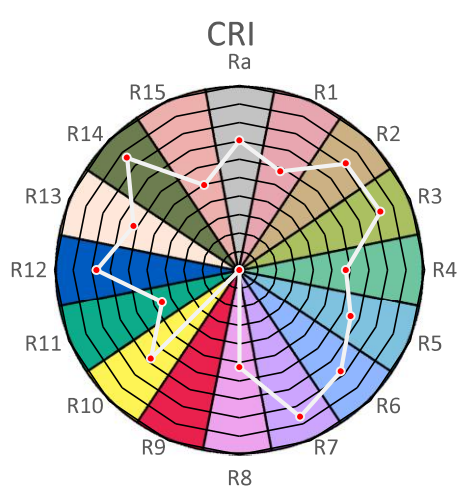
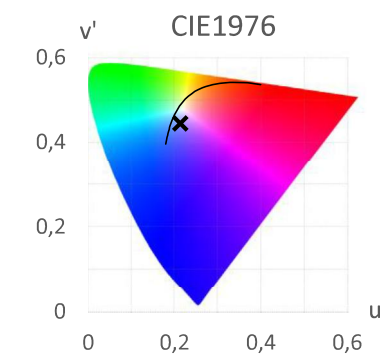
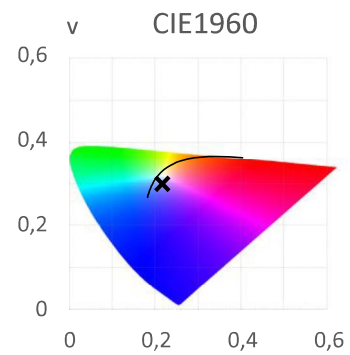
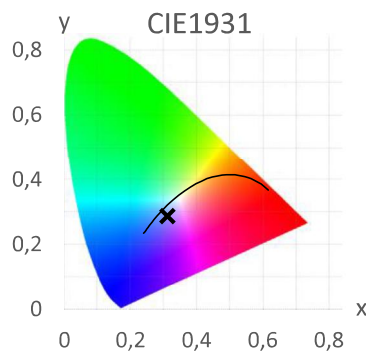
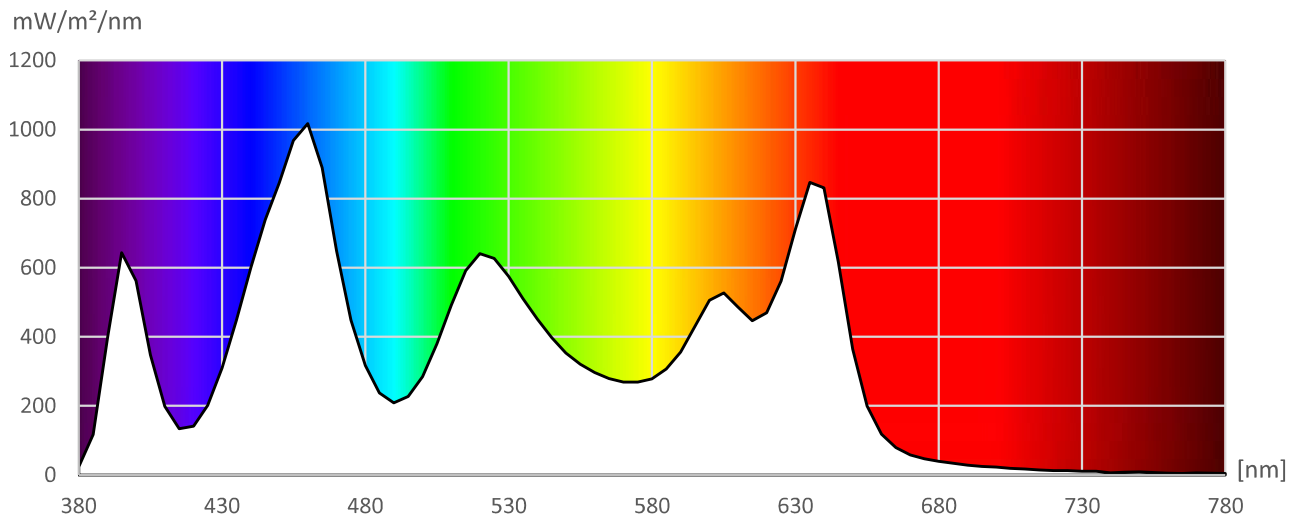
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / all / @ 1 m

Measurement file: 481058_1m_all.CS'
 Date of measurement: 10.08.2020
 Time of measurement: 16:18:56

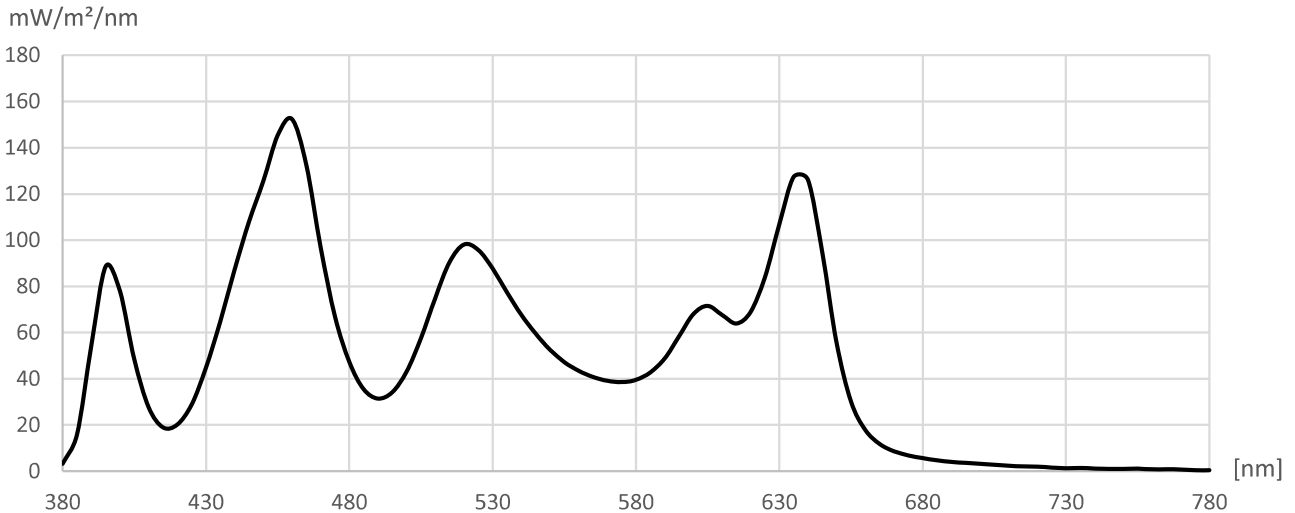


Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / all / @ 3 m

Measurement file: 481058_3m_all.CSV
 Date of measurement: 10.08.2020
 Time of measurement: 16:19:09



| | | | | |
|------------|-------------|------------------------------------|-------------------------|-------------|
| R1 = 57,9 | Ra = 69,6 | Illuminance | 4557,01 lx | CIE1931 |
| R2 = 82,6 | Re = 60,6 | Ee | 19,063 W/m ² | x = 0,3074 |
| R3 = 81,1 | GAI = 132,8 | LER | 239,0 lm/W | y = 0,2882 |
| R4 = 57,5 | | | | |
| R5 = 65,9 | | correlated color temperature (CCT) | 7397 K | CIE1976 |
| R6 = 79,4 | | Duv | -0,0164 | u' = 0,2104 |
| R7 = 83,8 | | Saturation | 14,4 % | v' = 0,4439 |
| R8 = 48,9 | | | | |
| R9 = -39,1 | | | | CIE1960 |
| R10 = 69,4 | | Dominant wavelength | 434 nm | u = 0,2104 |
| R11 = 45,5 | | Peak wavelength | 458 nm | v = 0,2959 |
| R12 = 78,7 | | | | |
| R13 = 62,6 | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = 85,4 | | Percent Flicker | < 1.0 % | Rf = 80,6 |
| R15 = 49,0 | | Flicker index | % < 1.0 | Rg = 114,6 |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 3,23 | 440 | 87,30 | 500 | 43,19 | 560 | 43,46 | 620 | 69,01 | 680 | 5,64 | 740 | 1,20 |
| 385 | 15,79 | 445 | 108,00 | 505 | 57,72 | 565 | 40,80 | 625 | 83,85 | 685 | 4,79 | 745 | 1,04 |
| 390 | 54,47 | 450 | 125,71 | 510 | 75,16 | 570 | 39,10 | 630 | 106,73 | 690 | 4,01 | 750 | 1,03 |
| 395 | 88,66 | 455 | 145,17 | 515 | 90,44 | 575 | 38,55 | 635 | 127,29 | 695 | 3,67 | 755 | 1,09 |
| 400 | 77,75 | 460 | 152,40 | 520 | 98,08 | 580 | 39,51 | 640 | 126,00 | 700 | 3,22 | 760 | 0,83 |
| 405 | 48,52 | 465 | 132,60 | 525 | 95,73 | 585 | 42,82 | 645 | 94,31 | 705 | 2,77 | 765 | 0,89 |
| 410 | 27,73 | 470 | 96,86 | 530 | 87,62 | 590 | 48,83 | 650 | 55,73 | 710 | 2,42 | 770 | 0,78 |
| 415 | 19,03 | 475 | 66,85 | 535 | 77,35 | 595 | 58,17 | 655 | 30,26 | 715 | 2,05 | 775 | 0,41 |
| 420 | 20,17 | 480 | 47,18 | 540 | 67,73 | 600 | 67,90 | 660 | 17,89 | 720 | 2,02 | 780 | 0,40 |
| 425 | 28,95 | 485 | 35,54 | 545 | 59,56 | 605 | 71,55 | 665 | 11,74 | 725 | 1,59 | | |
| 430 | 44,66 | 490 | 31,44 | 550 | 52,62 | 610 | 67,60 | 670 | 8,67 | 730 | 1,34 | | |
| 435 | 64,75 | 495 | 34,21 | 555 | 47,25 | 615 | 63,96 | 675 | 6,84 | 735 | 1,44 | | |

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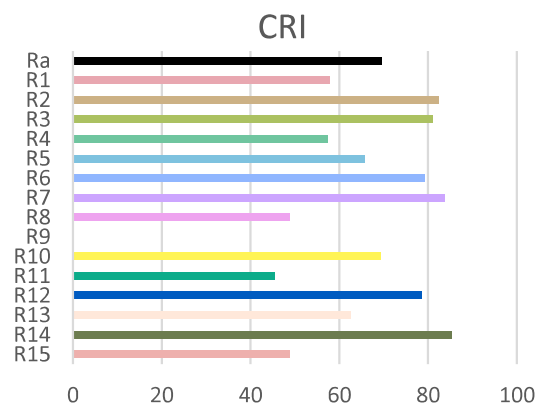
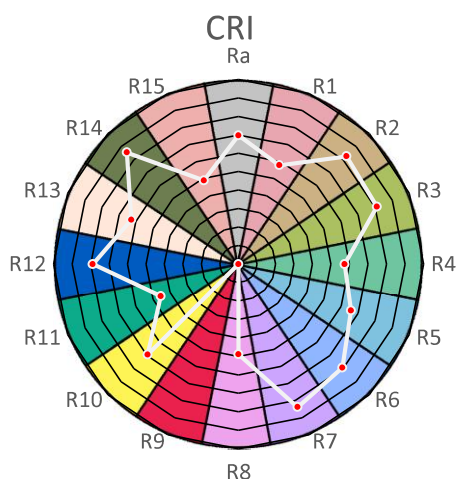
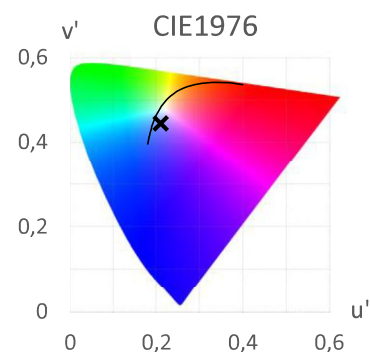
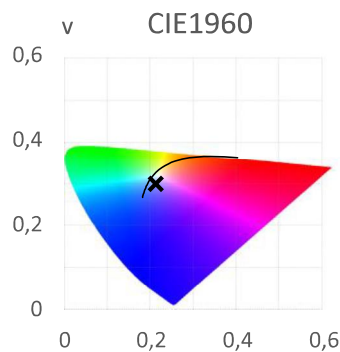
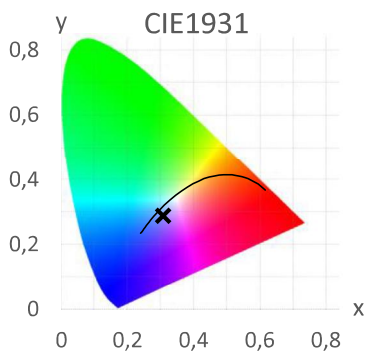
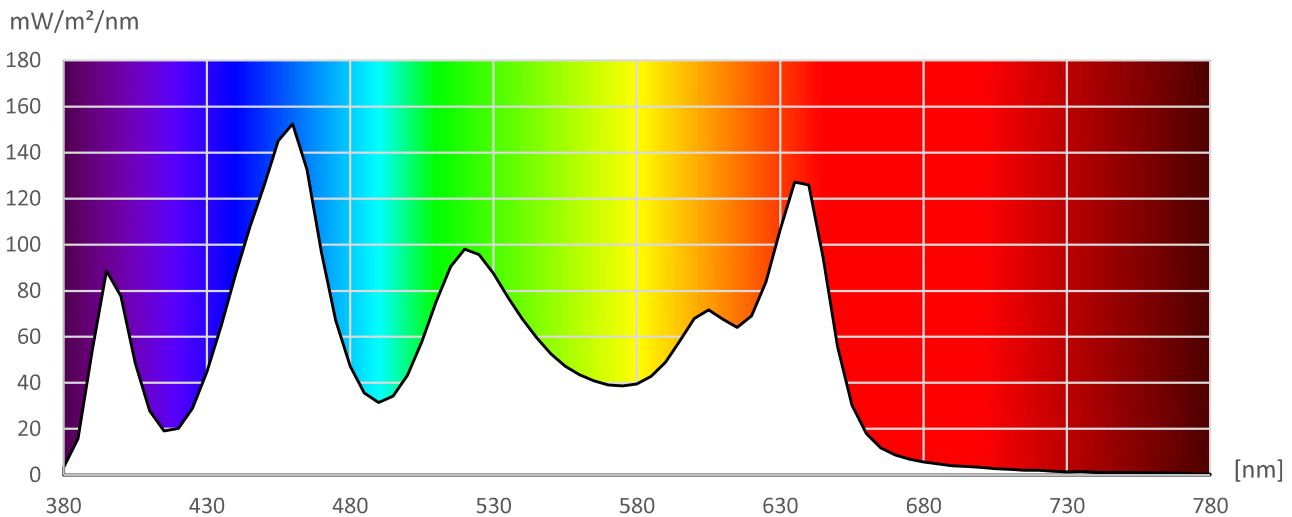
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / all / @ 3 m

Measurement file: 481058_3m_all.CS
 Date of measurement: 10.08.2020
 Time of measurement: 16:19:09

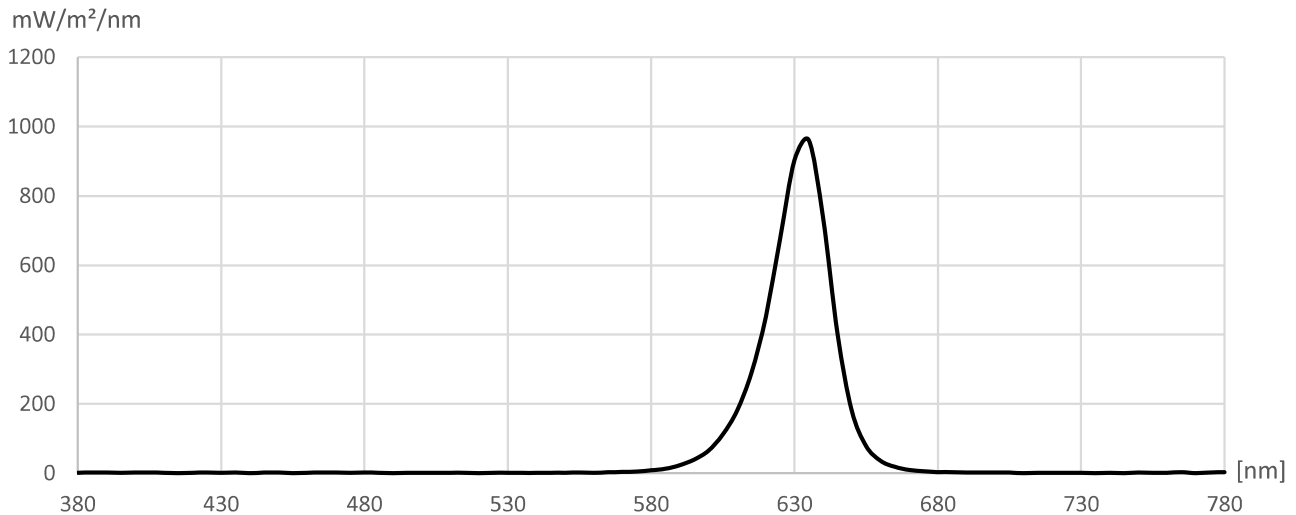


Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / red / @ 1 m

Measurement file: 481058_1m_red.CSV
Date of measurement: 10.08.2020
Time of measurement: 16:20:06



| | | | | |
|---------|---------|------------------------------------|-------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 5011,56 lx | CIE1931 |
| R2 = - | Re = - | Ee | 26,449 W/m ² | x = 0,6877 |
| R3 = - | GAI = - | LER | 189,5 lm/W | y = 0,3058 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | < 1600 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,5197 |
| R7 = - | | | | v' = 0,5198 |
| R8 = - | | Saturation | 98,2 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | 626 nm | u = 0,5197 |
| R11 = - | | Peak wavelength | 632 nm | v = 0,3466 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | 0 Hz | TM30 |
| R14 = - | | Percent Flicker | 1,8 % | Rf = - |
| R15 = - | | Flicker index | 0,004 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 1,48 | 440 | 0,08 | 500 | 1,02 | 560 | 1,35 | 620 | 452,22 | 680 | 3,45 | 740 | 1,61 |
| 385 | 2,20 | 445 | 1,82 | 505 | 1,12 | 565 | 2,71 | 625 | 674,99 | 685 | 3,38 | 745 | 0,63 |
| 390 | 2,18 | 450 | 2,11 | 510 | 0,91 | 570 | 3,57 | 630 | 902,46 | 690 | 2,04 | 750 | 2,14 |
| 395 | 1,45 | 455 | 0,48 | 515 | 1,68 | 575 | 4,98 | 635 | 960,97 | 695 | 1,77 | 755 | 1,01 |
| 400 | 2,22 | 460 | 1,61 | 520 | 0,71 | 580 | 8,15 | 640 | 734,63 | 700 | 1,76 | 760 | 1,54 |
| 405 | 1,94 | 465 | 1,85 | 525 | 1,60 | 585 | 12,92 | 645 | 401,30 | 705 | 1,79 | 765 | 2,84 |
| 410 | 1,47 | 470 | 2,01 | 530 | 1,47 | 590 | 23,48 | 650 | 181,47 | 710 | 0,57 | 770 | 0,58 |
| 415 | 0,34 | 475 | 1,46 | 535 | 1,42 | 595 | 39,37 | 655 | 78,95 | 715 | 1,51 | 775 | 2,41 |
| 420 | 1,58 | 480 | 1,82 | 540 | 0,78 | 600 | 64,76 | 660 | 35,87 | 720 | 1,24 | 780 | 2,65 |
| 425 | 1,81 | 485 | 1,61 | 545 | 1,66 | 605 | 111,45 | 665 | 18,32 | 725 | 1,54 | | |
| 430 | 0,94 | 490 | 0,44 | 550 | 1,64 | 610 | 181,33 | 670 | 9,66 | 730 | 1,37 | | |
| 435 | 2,11 | 495 | 1,36 | 555 | 2,01 | 615 | 290,41 | 675 | 5,92 | 735 | 0,37 | | |

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Burgebrach, 10.08.2020

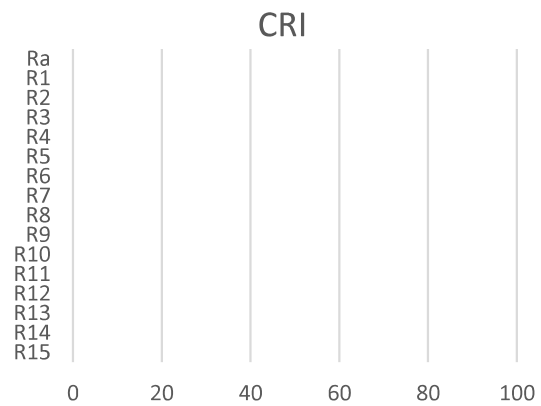
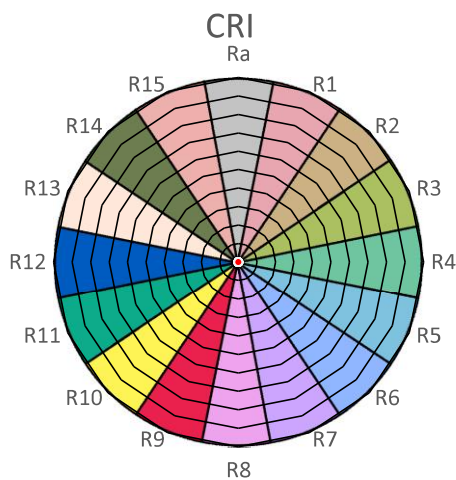
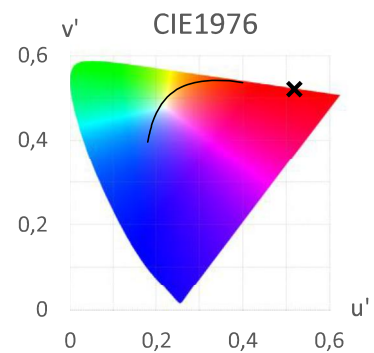
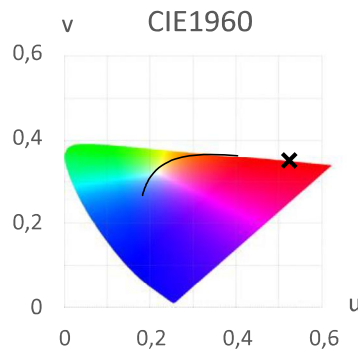
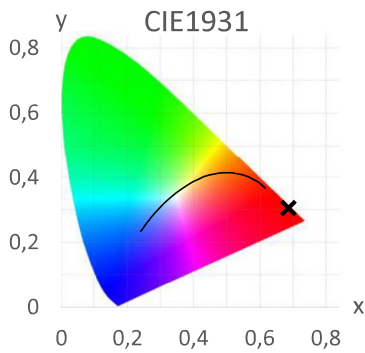
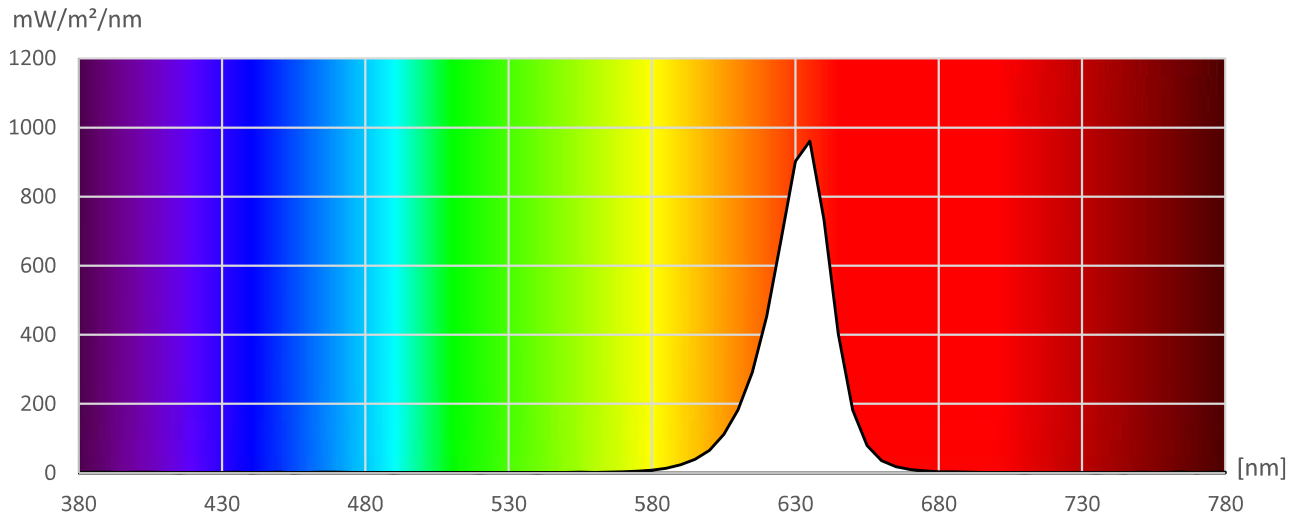
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / red / @ 1 m

Measurement file: 481058_1m_red.C:
 Date of measurement: 10.08.2020
 Time of measurement: 16:20:06



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Burgebrach, 10.08.2020

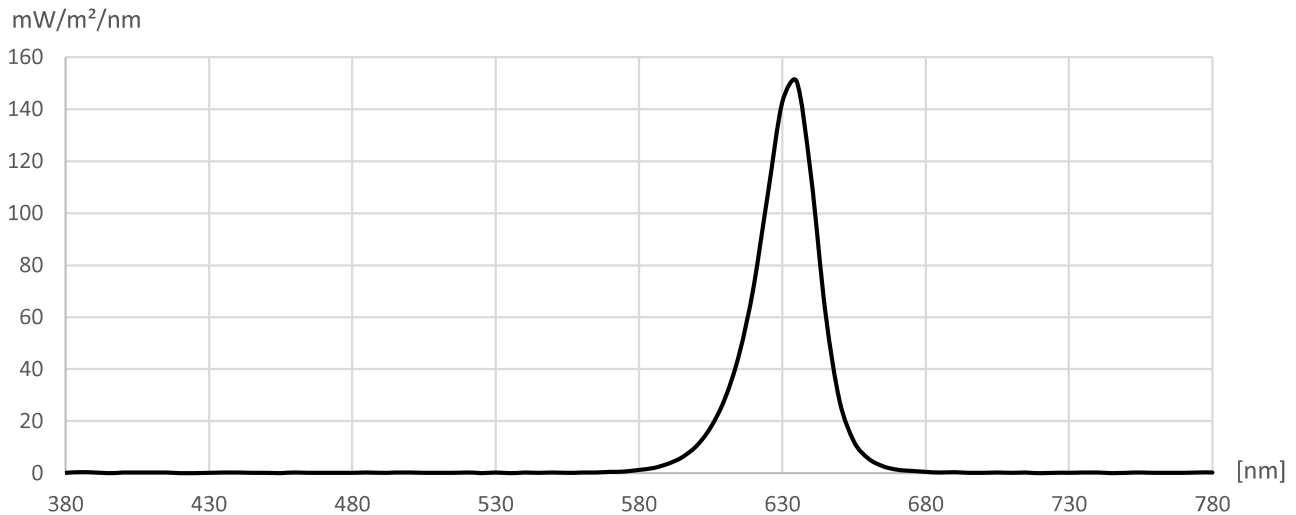
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / red / @ 3 m

Measurement file: 481058_3m_red.CSV
Date of measurement: 10.08.2020
Time of measurement: 16:20:15



| | | | | |
|---------|---------|------------------------------------|------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 787,95 lx | CIE1931 |
| R2 = - | Re = - | Ee | 4,146 W/m ² | x = 0,6889 |
| R3 = - | GAI = - | LER | 190,1 lm/W | y = 0,3057 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | < 1600 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,5208 |
| R7 = - | | | | v' = 0,5200 |
| R8 = - | | Saturation | 98,5 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | 626 nm | u = 0,5208 |
| R11 = - | | Peak wavelength | 632 nm | v = 0,3467 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = - | | Percent Flicker | < 1.0 % | Rf = - |
| R15 = - | | Flicker index | % < 1.0 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 0,21 | 440 | 0,28 | 500 | 0,25 | 560 | 0,24 | 620 | 71,99 | 680 | 0,54 | 740 | 0,29 |
| 385 | 0,41 | 445 | 0,19 | 505 | 0,19 | 565 | 0,33 | 625 | 107,38 | 685 | 0,32 | 745 | 0,03 |
| 390 | 0,34 | 450 | 0,14 | 510 | 0,15 | 570 | 0,48 | 630 | 142,68 | 690 | 0,37 | 750 | 0,21 |
| 395 | 0,00 | 455 | 0,09 | 515 | 0,13 | 575 | 0,71 | 635 | 150,70 | 695 | 0,19 | 755 | 0,25 |
| 400 | 0,27 | 460 | 0,25 | 520 | 0,26 | 580 | 1,28 | 640 | 114,19 | 700 | 0,12 | 760 | 0,21 |
| 405 | 0,27 | 465 | 0,20 | 525 | 0,10 | 585 | 1,98 | 645 | 61,84 | 705 | 0,29 | 765 | 0,22 |
| 410 | 0,29 | 470 | 0,19 | 530 | 0,25 | 590 | 3,65 | 650 | 27,98 | 710 | 0,18 | 770 | 0,20 |
| 415 | 0,27 | 475 | 0,11 | 535 | 0,04 | 595 | 6,11 | 655 | 12,20 | 715 | 0,24 | 775 | 0,34 |
| 420 | 0,03 | 480 | 0,19 | 540 | 0,23 | 600 | 10,38 | 660 | 5,70 | 720 | 0,02 | 780 | 0,29 |
| 425 | 0,07 | 485 | 0,23 | 545 | 0,11 | 605 | 17,64 | 665 | 2,77 | 725 | 0,21 | | |
| 430 | 0,17 | 490 | 0,16 | 550 | 0,23 | 610 | 28,73 | 670 | 1,35 | 730 | 0,22 | | |
| 435 | 0,31 | 495 | 0,24 | 555 | 0,12 | 615 | 46,07 | 675 | 0,88 | 735 | 0,24 | | |

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Burgebrach, 10.08.2020

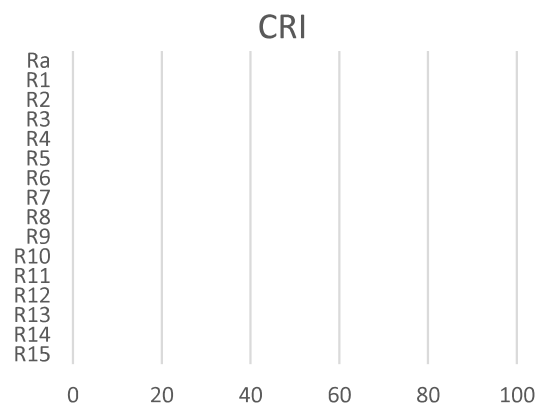
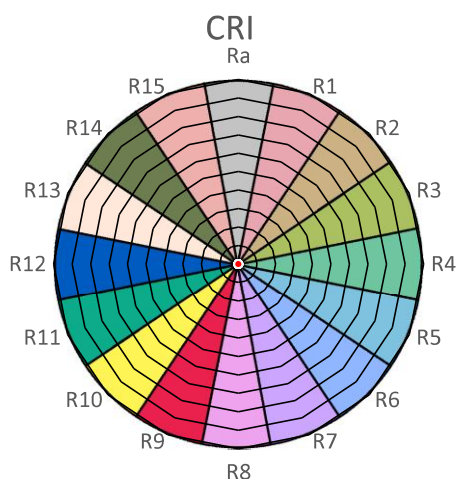
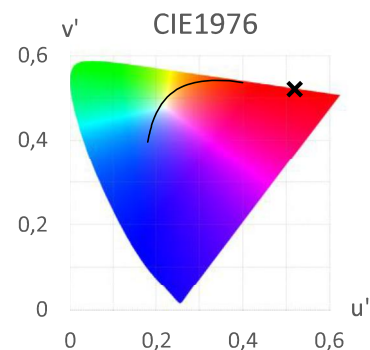
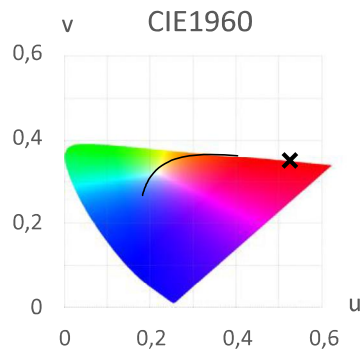
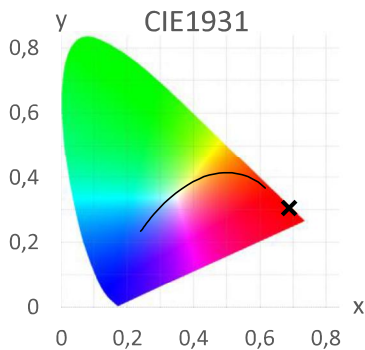
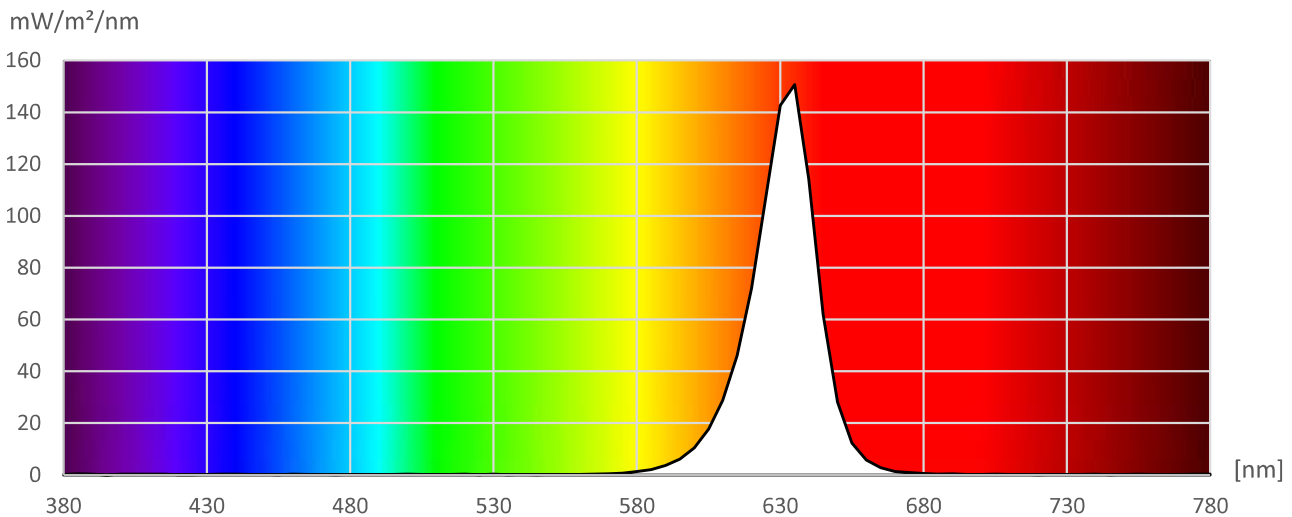
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / red / @ 3 m

Measurement file: 481058_3m_red.C
 Date of measurement: 10.08.2020
 Time of measurement: 16:20:15



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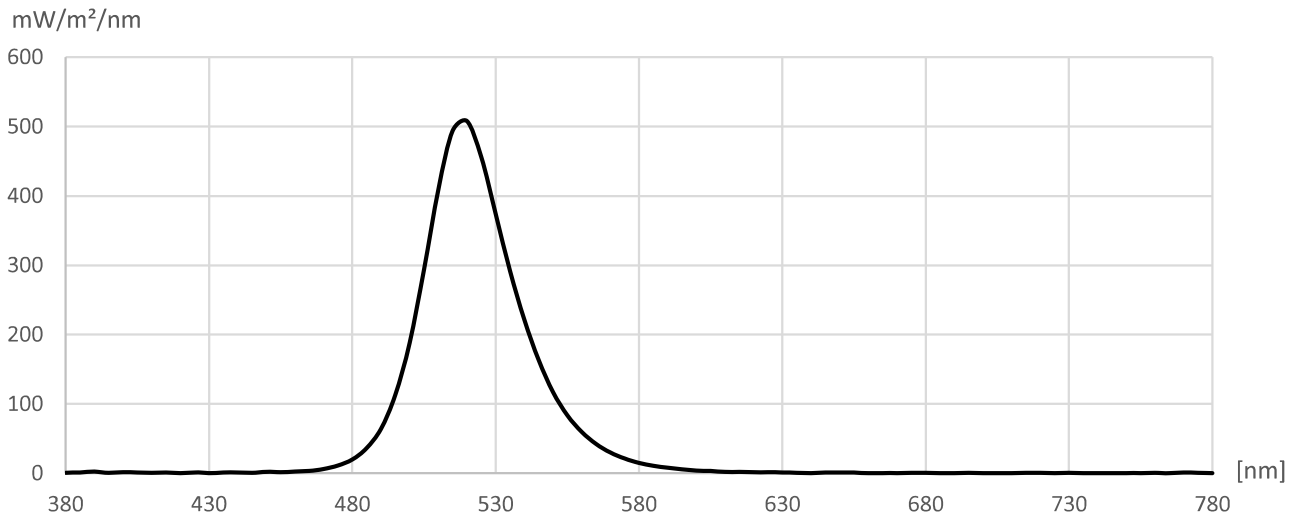
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / green / @ 1 m

Measurement file: 481058_1m_green.CSV
Date of measurement: 10.08.2020
Time of measurement: 16:20:50



| | | | | |
|-------------|------------|------------------------------------|-------------------------|-------------|
| R1 = -35,5 | Ra = -22,7 | Illuminance | 9635,34 lx | CIE1931 |
| R2 = -6,9 | Re = -53,3 | Ee | 20,466 W/m ² | x = 0,1583 |
| R3 = -18,7 | GAI = 0,8 | LER | 470,8 lm/W | y = 0,7182 |
| R4 = -62,0 | | | | |
| R5 = -9,3 | | correlated color temperature (CCT) | 8049 K | CIE1976 |
| R6 = -14,7 | | Duv | 0,1605 | u' = 0,0560 |
| R7 = -3,7 | | | | v' = 0,5719 |
| R8 = -30,7 | | Saturation | 75,9 % | |
| R9 = ##### | | | | CIE1960 |
| R10 = ##### | | Dominant wavelength | 521 nm | u = 0,0560 |
| R11 = -90,9 | | Peak wavelength | 517 nm | v = 0,3813 |
| R12 = -29,6 | | | | |
| R13 = -40,9 | | Flicker frequency | 0 Hz | TM30 |
| R14 = 40,9 | | Percent Flicker | 1,4 % | Rf = 0,9 |
| R15 = -38,3 | | Flicker index | 0,003 | Rg = 9,1 |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 0,73 | 440 | 1,28 | 500 | 188,12 | 560 | 59,52 | 620 | 1,34 | 680 | 0,46 | 740 | 0,30 |
| 385 | 1,19 | 445 | 0,69 | 505 | 294,06 | 565 | 42,34 | 625 | 1,49 | 685 | 0,08 | 745 | 0,00 |
| 390 | 2,24 | 450 | 2,16 | 510 | 409,91 | 570 | 30,01 | 630 | 1,21 | 690 | 0,14 | 750 | 0,35 |
| 395 | 0,51 | 455 | 1,45 | 515 | 493,53 | 575 | 21,32 | 635 | 0,75 | 695 | 0,60 | 755 | 0,31 |
| 400 | 1,53 | 460 | 2,44 | 520 | 507,72 | 580 | 14,80 | 640 | 0,36 | 700 | 0,00 | 760 | 0,57 |
| 405 | 1,22 | 465 | 3,45 | 525 | 455,81 | 585 | 10,79 | 645 | 0,91 | 705 | 0,33 | 765 | 0,00 |
| 410 | 0,54 | 470 | 6,08 | 530 | 373,84 | 590 | 7,82 | 650 | 0,91 | 710 | 0,06 | 770 | 1,17 |
| 415 | 1,16 | 475 | 10,98 | 535 | 291,33 | 595 | 5,79 | 655 | 0,88 | 715 | 0,73 | 775 | 0,78 |
| 420 | 0,14 | 480 | 19,93 | 540 | 222,05 | 600 | 3,72 | 660 | 0,12 | 720 | 0,56 | 780 | 0,00 |
| 425 | 1,30 | 485 | 36,11 | 545 | 163,51 | 605 | 3,28 | 665 | 0,36 | 725 | 0,26 | | |
| 430 | 0,33 | 490 | 63,96 | 550 | 117,26 | 610 | 1,86 | 670 | 0,25 | 730 | 0,44 | | |
| 435 | 0,92 | 495 | 112,90 | 555 | 83,56 | 615 | 1,87 | 675 | 0,47 | 735 | 0,00 | | |

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Burgebrach, 10.08.2020

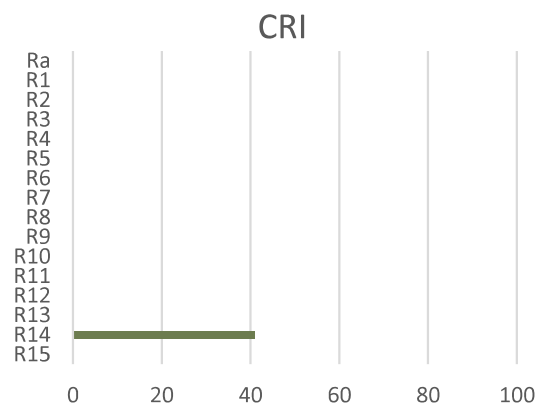
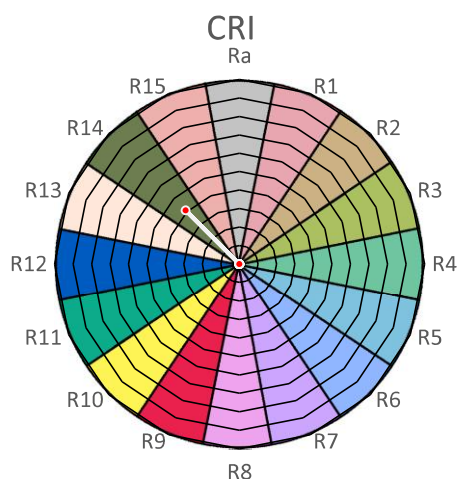
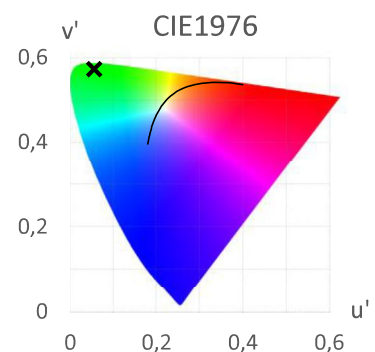
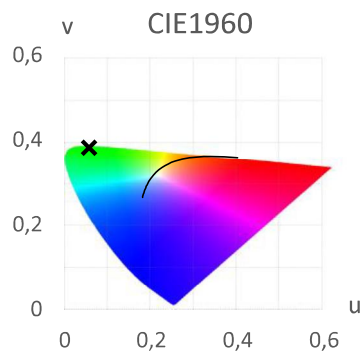
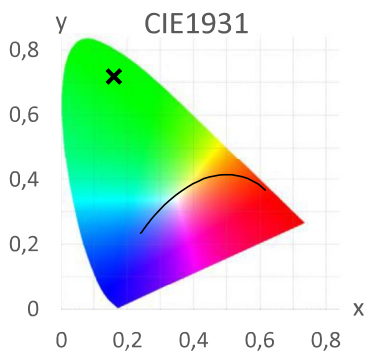
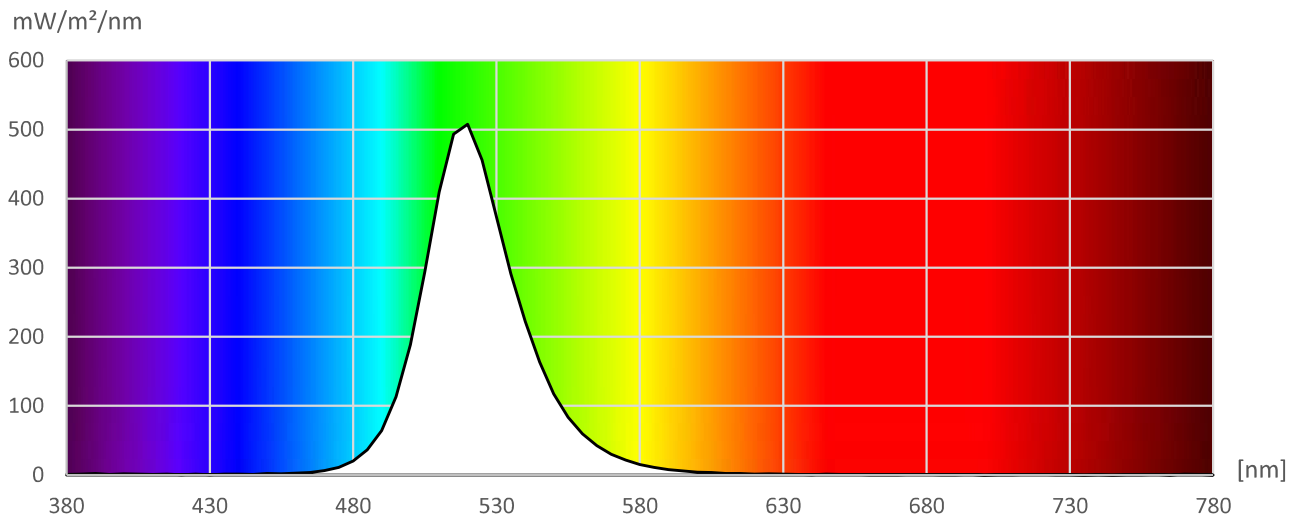
First, last name of inspector

Measurement protocol

th•mann

Test object: Ignition
2bright Par 18 IP
481058 / green / @ 1 m

Measurement file: 481058_1m_green
Date of measurement: 10.08.2020
Time of measurement: 16:20:50



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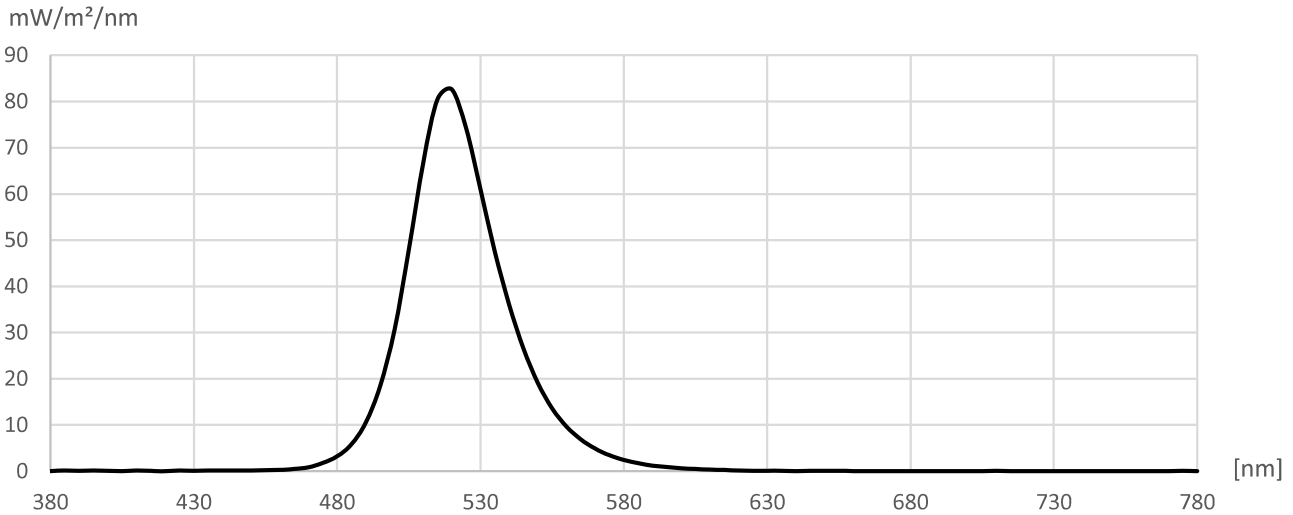
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / green / @ 3 m

Measurement file: 481058_3m_green.CSV
 Date of measurement: 10.08.2020
 Time of measurement: 16:21:00



| | | | | |
|-------------|------------|------------------------------------|------------------------|-------------|
| R1 = -35,8 | Ra = -23,6 | Illuminance | 1567,93 lx | CIE1931 |
| R2 = -7,5 | Re = -54,2 | Ee | 3,318 W/m ² | x = 0,1579 |
| R3 = -20,1 | GAI = 0,7 | LER | 472,5 lm/W | y = 0,7197 |
| R4 = -63,2 | | | | |
| R5 = -9,5 | | correlated color temperature (CCT) | 8048 K | CIE1976 |
| R6 = -15,3 | | Duv | 0,1608 | u' = 0,0558 |
| R7 = -5,3 | | | | v' = 0,5722 |
| R8 = -31,8 | | Saturation | 76,1 % | |
| R9 = ##### | | | | CIE1960 |
| R10 = ##### | | Dominant wavelength | 521 nm | u = 0,0558 |
| R11 = -92,1 | | Peak wavelength | 517 nm | v = 0,3814 |
| R12 = -30,2 | | | | |
| R13 = -41,3 | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = 40,3 | | Percent Flicker | < 1.0 % | Rf = 0,8 |
| R15 = -38,7 | | Flicker index | % < 1.0 | Rg = 8,5 |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 0,02 | 440 | 0,17 | 500 | 30,56 | 560 | 9,66 | 620 | 0,16 | 680 | 0,00 | 740 | 0,00 |
| 385 | 0,18 | 445 | 0,16 | 505 | 48,02 | 565 | 6,90 | 625 | 0,09 | 685 | 0,00 | 745 | 0,03 |
| 390 | 0,11 | 450 | 0,16 | 510 | 66,77 | 570 | 4,91 | 630 | 0,09 | 690 | 0,01 | 750 | 0,00 |
| 395 | 0,15 | 455 | 0,25 | 515 | 80,41 | 575 | 3,45 | 635 | 0,12 | 695 | 0,00 | 755 | 0,00 |
| 400 | 0,10 | 460 | 0,29 | 520 | 82,58 | 580 | 2,46 | 640 | 0,04 | 700 | 0,00 | 760 | 0,00 |
| 405 | 0,03 | 465 | 0,49 | 525 | 74,16 | 585 | 1,75 | 645 | 0,10 | 705 | 0,01 | 765 | 0,00 |
| 410 | 0,13 | 470 | 0,87 | 530 | 60,94 | 590 | 1,21 | 650 | 0,10 | 710 | 0,07 | 770 | 0,00 |
| 415 | 0,07 | 475 | 1,80 | 535 | 47,39 | 595 | 0,94 | 655 | 0,07 | 715 | 0,03 | 775 | 0,06 |
| 420 | 0,00 | 480 | 3,25 | 540 | 36,10 | 600 | 0,64 | 660 | 0,06 | 720 | 0,00 | 780 | 0,00 |
| 425 | 0,15 | 485 | 5,79 | 545 | 26,57 | 605 | 0,48 | 665 | 0,03 | 725 | 0,01 | | |
| 430 | 0,06 | 490 | 10,52 | 550 | 19,11 | 610 | 0,36 | 670 | 0,00 | 730 | 0,05 | | |
| 435 | 0,15 | 495 | 18,42 | 555 | 13,59 | 615 | 0,27 | 675 | 0,01 | 735 | 0,00 | | |

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Burgebrach, 10.08.2020

First, last name of inspector

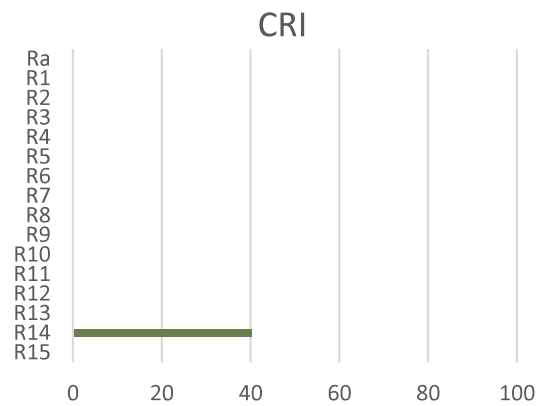
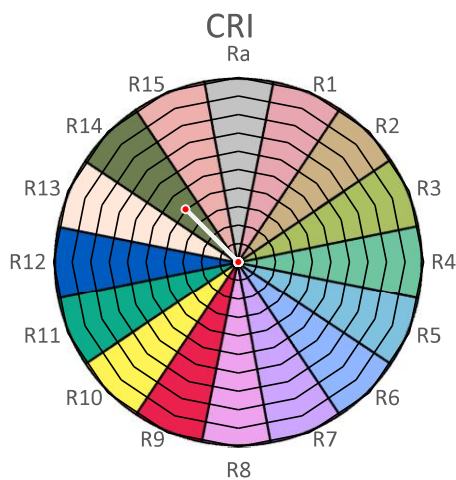
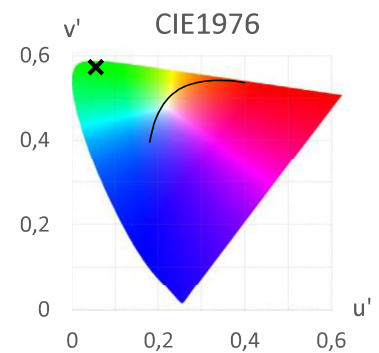
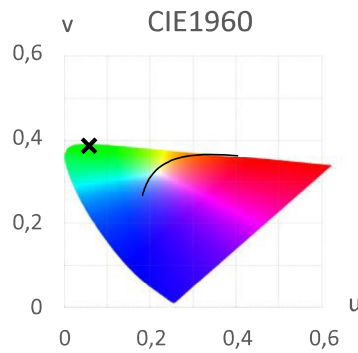
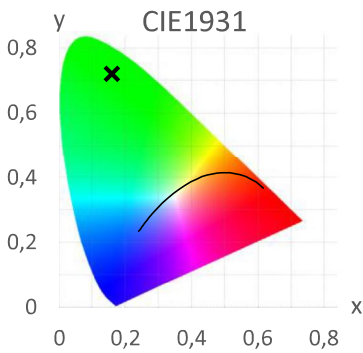
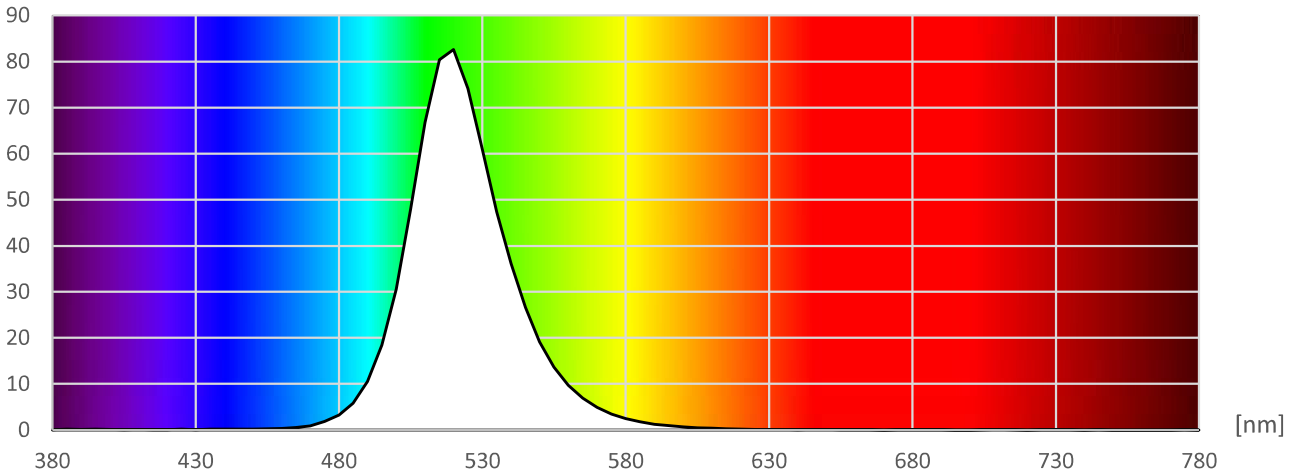
Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / green / @ 3 m

Measurement file: 481058_3m_green
 Date of measurement: 10.08.2020
 Time of measurement: 16:21:00

mW/m²/nm



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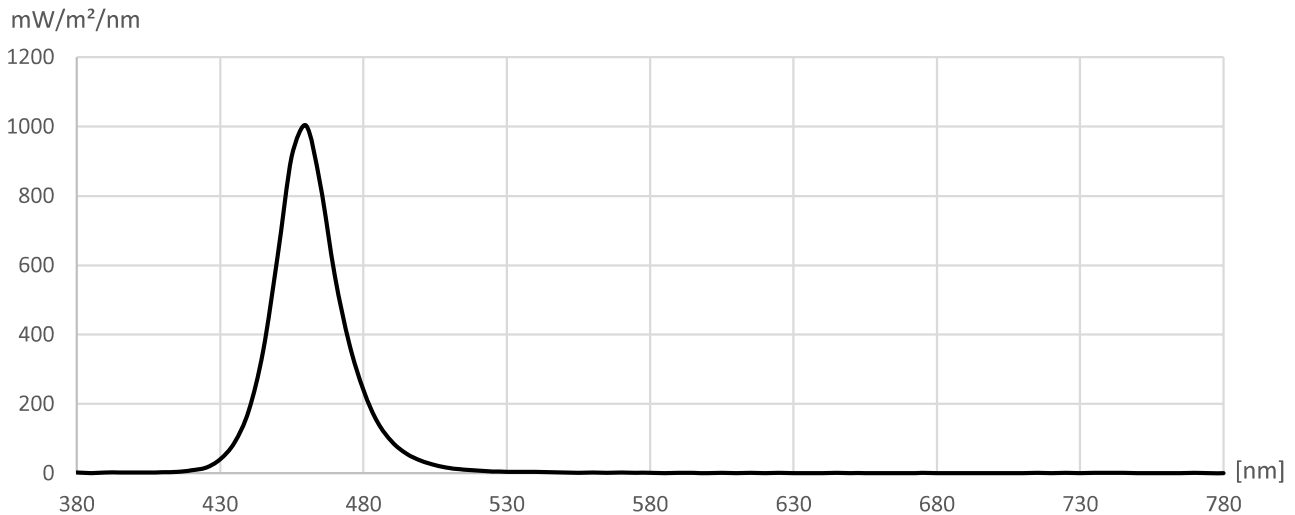
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / blue / @ 1 m

Measurement file: 481058_1m_blue.CSV
 Date of measurement: 10.08.2020
 Time of measurement: 16:21:30



| | | | | |
|---------|---------|------------------------------------|-------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 1593,47 lx | CIE1931 |
| R2 = - | Re = - | Ee | 28,503 W/m ² | x = 0,1422 |
| R3 = - | GAI = - | LER | 55,9 lm/W | y = 0,0455 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | > 50000 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,1745 |
| R7 = - | | | | v' = 0,1255 |
| R8 = - | | Saturation | 97,9 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | 457 nm | u = 0,1745 |
| R11 = - | | Peak wavelength | 458 nm | v = 0,0837 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = - | | Percent Flicker | < 1.0 % | Rf = - |
| R15 = - | | Flicker index | % < 1.0 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 2,44 | 440 | 181,36 | 500 | 35,90 | 560 | 1,81 | 620 | 0,30 | 680 | 0,58 | 740 | 0,97 |
| 385 | 0,49 | 445 | 353,29 | 505 | 23,04 | 565 | 1,47 | 625 | 1,10 | 685 | 0,64 | 745 | 0,93 |
| 390 | 2,46 | 450 | 624,84 | 510 | 14,66 | 570 | 1,93 | 630 | 0,19 | 690 | 0,20 | 750 | 0,21 |
| 395 | 2,05 | 455 | 913,80 | 515 | 10,66 | 575 | 1,30 | 635 | 0,66 | 695 | 0,67 | 755 | 0,69 |
| 400 | 2,52 | 460 | 1003,10 | 520 | 7,36 | 580 | 1,64 | 640 | 0,14 | 700 | 0,24 | 760 | 0,00 |
| 405 | 2,27 | 465 | 830,89 | 525 | 5,34 | 585 | 0,36 | 645 | 0,81 | 705 | 0,60 | 765 | 0,28 |
| 410 | 2,66 | 470 | 569,41 | 530 | 4,18 | 590 | 1,51 | 650 | 0,25 | 710 | 0,47 | 770 | 1,41 |
| 415 | 4,04 | 475 | 374,27 | 535 | 3,67 | 595 | 0,86 | 655 | 0,75 | 715 | 1,15 | 775 | 0,00 |
| 420 | 8,17 | 480 | 238,59 | 540 | 3,63 | 600 | 0,71 | 660 | 0,15 | 720 | 0,04 | 780 | 0,12 |
| 425 | 16,33 | 485 | 146,43 | 545 | 3,12 | 605 | 1,16 | 665 | 0,35 | 725 | 1,54 | | |
| 430 | 39,80 | 490 | 90,29 | 550 | 2,03 | 610 | 0,16 | 670 | 0,00 | 730 | 0,00 | | |
| 435 | 87,93 | 495 | 56,56 | 555 | 1,58 | 615 | 1,10 | 675 | 0,78 | 735 | 1,25 | | |

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Burgebrach, 10.08.2020

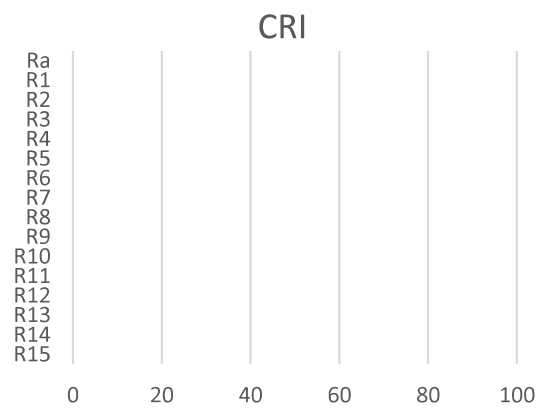
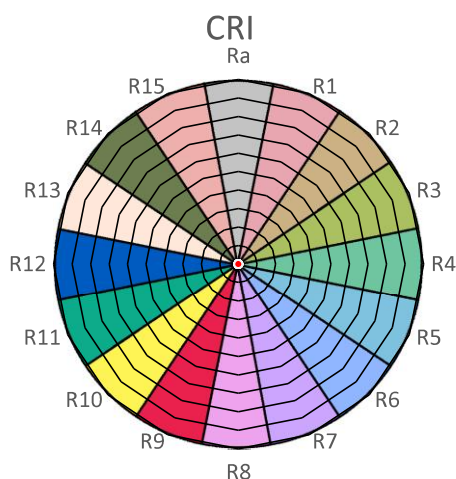
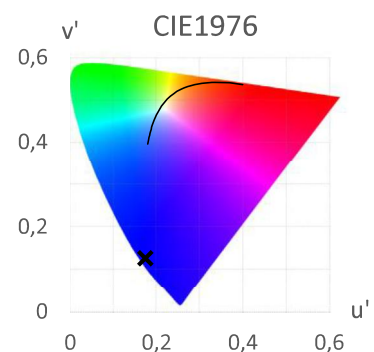
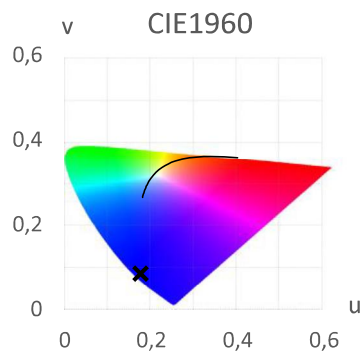
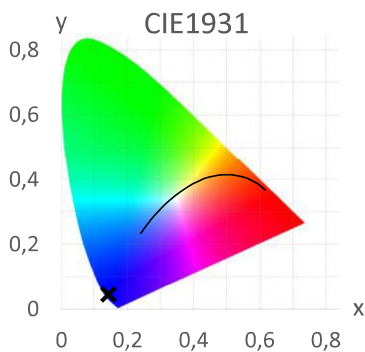
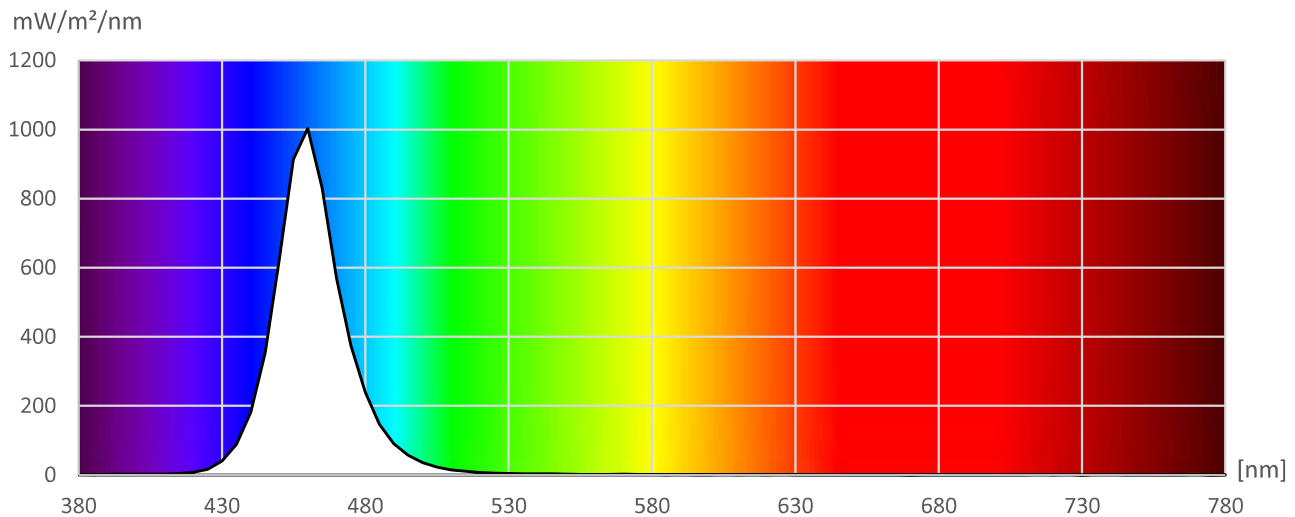
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / blue / @ 1 m

Measurement file: 481058_1m_blue.c
 Date of measurement: 10.08.2020
 Time of measurement: 16:21:30



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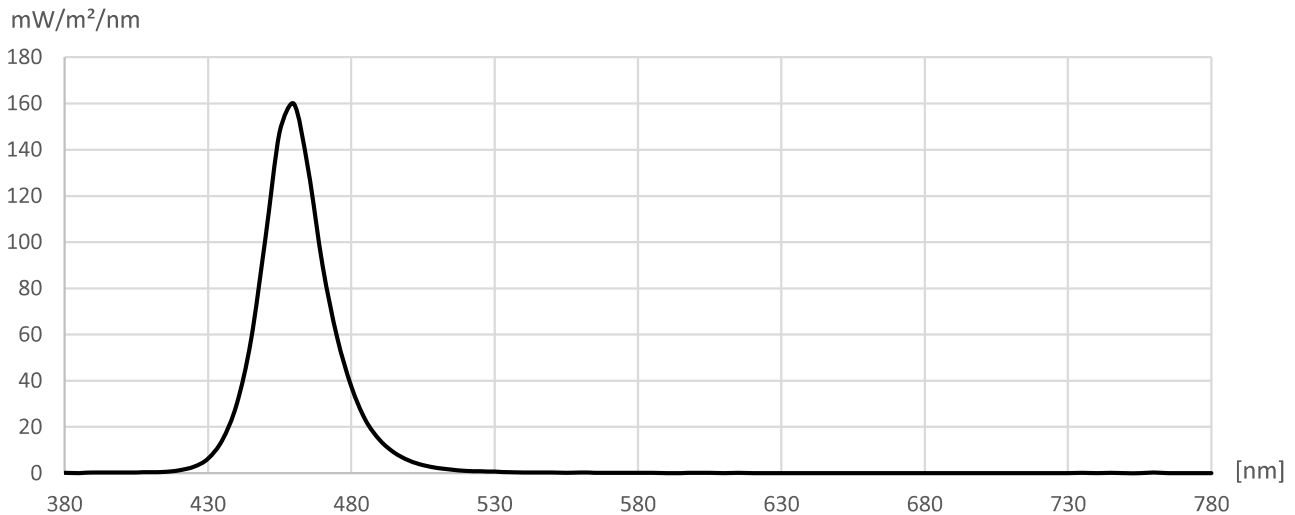
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / blue / @ 3 m

Measurement file: 481058_3m_blue.CSV
Date of measurement: 10.08.2020
Time of measurement: 16:21:37



| | | | | |
|---------|---------|------------------------------------|------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 248,69 lx | CIE1931 |
| R2 = - | Re = - | Ee | 4,538 W/m ² | x = 0,1423 |
| R3 = - | GAI = - | LER | 54,8 lm/W | y = 0,0444 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | > 50000 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,1752 |
| R7 = - | | | | v' = 0,1230 |
| R8 = - | | Saturation | 97,9 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | 456 nm | u = 0,1752 |
| R11 = - | | Peak wavelength | 458 nm | v = 0,0820 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = - | | Percent Flicker | < 1.0 % | Rf = - |
| R15 = - | | Flicker index | % < 1.0 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 0,17 | 440 | 29,75 | 500 | 5,55 | 560 | 0,27 | 620 | 0,07 | 680 | 0,09 | 740 | 0,00 |
| 385 | 0,11 | 445 | 57,66 | 505 | 3,53 | 565 | 0,24 | 625 | 0,08 | 685 | 0,04 | 745 | 0,14 |
| 390 | 0,32 | 450 | 101,70 | 510 | 2,30 | 570 | 0,16 | 630 | 0,04 | 690 | 0,05 | 750 | 0,02 |
| 395 | 0,35 | 455 | 147,45 | 515 | 1,55 | 575 | 0,17 | 635 | 0,09 | 695 | 0,04 | 755 | 0,00 |
| 400 | 0,33 | 460 | 159,84 | 520 | 0,98 | 580 | 0,16 | 640 | 0,01 | 700 | 0,01 | 760 | 0,27 |
| 405 | 0,37 | 465 | 131,21 | 525 | 0,83 | 585 | 0,14 | 645 | 0,05 | 705 | 0,00 | 765 | 0,05 |
| 410 | 0,44 | 470 | 89,63 | 530 | 0,67 | 590 | 0,10 | 650 | 0,02 | 710 | 0,01 | 770 | 0,05 |
| 415 | 0,56 | 475 | 58,89 | 535 | 0,43 | 595 | 0,11 | 655 | 0,02 | 715 | 0,00 | 775 | 0,01 |
| 420 | 1,29 | 480 | 37,41 | 540 | 0,38 | 600 | 0,15 | 660 | 0,04 | 720 | 0,00 | 780 | 0,00 |
| 425 | 2,84 | 485 | 22,94 | 545 | 0,31 | 605 | 0,15 | 665 | 0,00 | 725 | 0,10 | | |
| 430 | 6,30 | 490 | 14,26 | 550 | 0,32 | 610 | 0,10 | 670 | 0,09 | 730 | 0,00 | | |
| 435 | 14,34 | 495 | 8,89 | 555 | 0,20 | 615 | 0,18 | 675 | 0,02 | 735 | 0,14 | | |

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Burgebrach, 10.08.2020

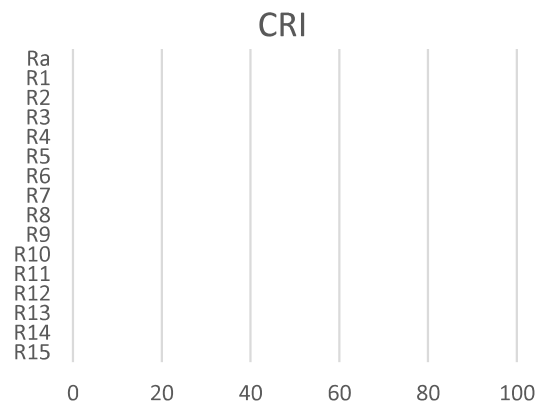
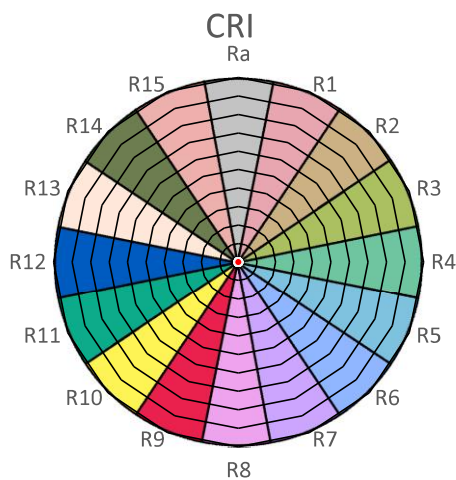
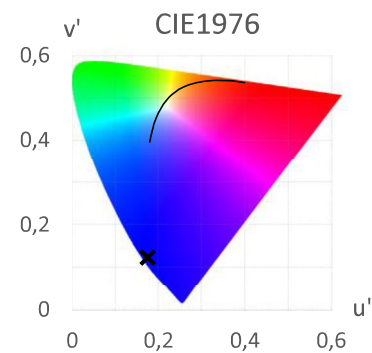
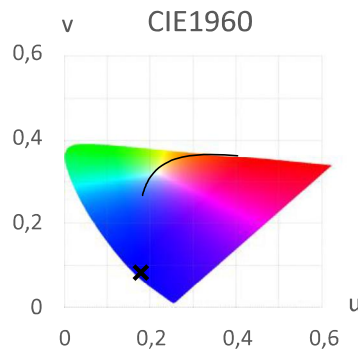
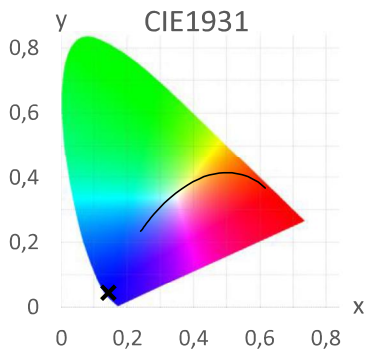
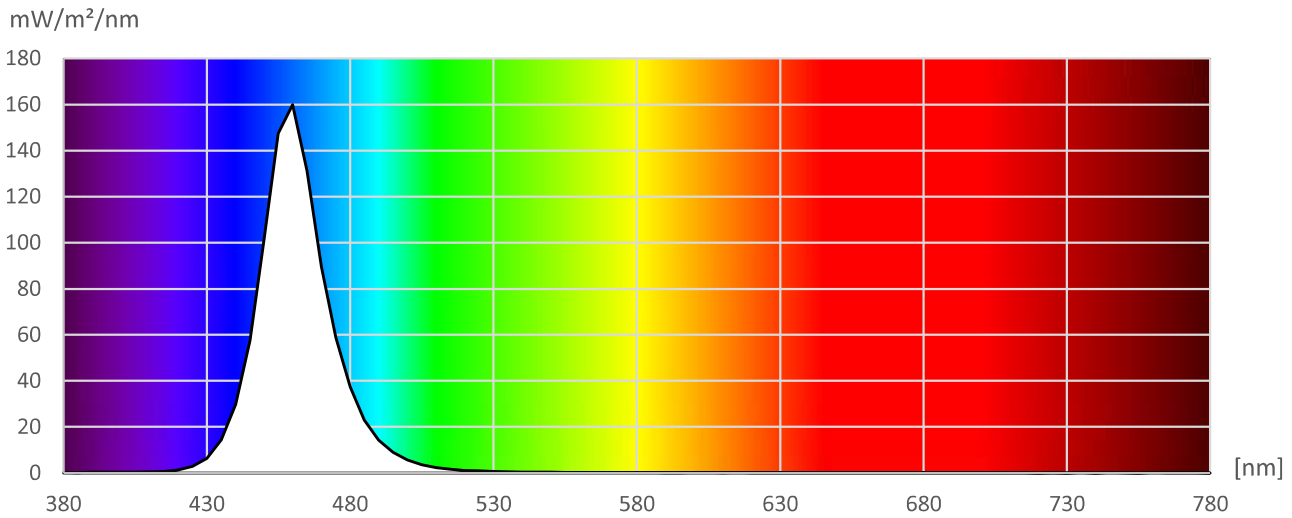
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / blue / @ 3 m

Measurement file: 481058_3m_blue.c
 Date of measurement: 10.08.2020
 Time of measurement: 16:21:37



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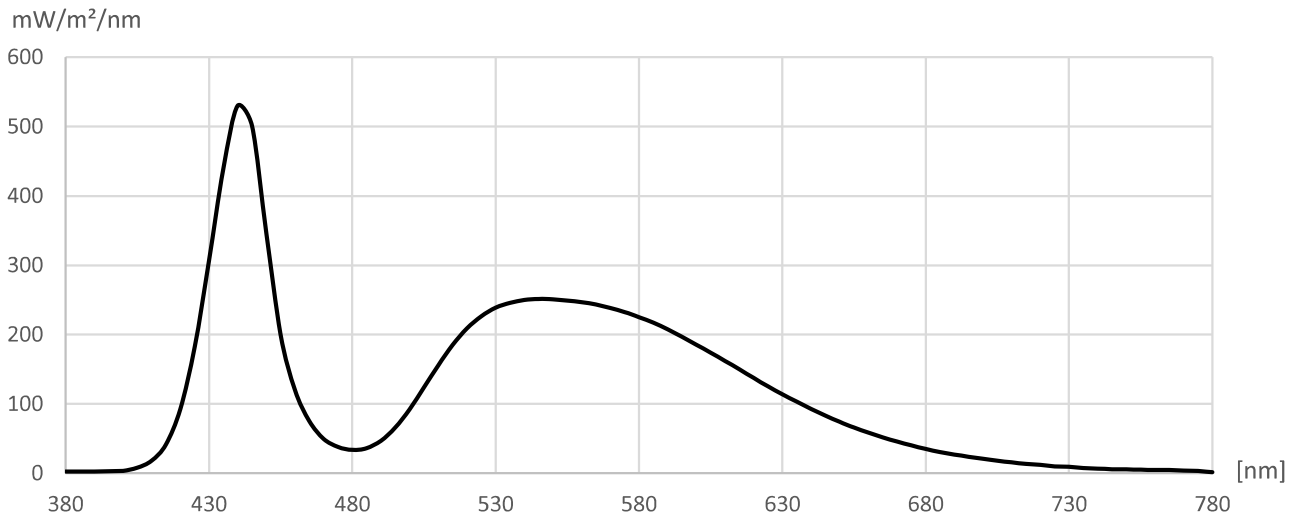
First, last name of inspector

Measurement protocol

th.mann

Test object: Ignition
2bright Par 18 IP
481058 / white / @ 1 m

Measurement file: 481058_1m_white.CSV
Date of measurement: 10.08.2020
Time of measurement: 16:22:08



| | | | | |
|------------|------------|------------------------------------|-------------------------|-------------|
| R1 = 68,8 | Ra = 67,5 | Illuminance | 14676,98 lx | CIE1931 |
| R2 = 69,0 | Re = 57,4 | Ee | 46,774 W/m ² | x = 0,3110 |
| R3 = 68,1 | GAI = 89,5 | LER | 313,8 lm/W | y = 0,3228 |
| R4 = 69,9 | | | | |
| R5 = 70,5 | | correlated color temperature (CCT) | 6650 K | CIE1976 |
| R6 = 60,7 | | Duv | 0,0009 | u' = 0,1990 |
| R7 = 72,9 | | | | v' = 0,4647 |
| R8 = 60,5 | | Saturation | 8,4 % | |
| R9 = -29,5 | | | | CIE1960 |
| R10 = 25,9 | | Dominant wavelength | 482 nm | u = 0,1990 |
| R11 = 72,0 | | Peak wavelength | 440 nm | v = 0,3098 |
| R12 = 42,2 | | | | |
| R13 = 66,6 | | Flicker frequency | 0 Hz | TM30 |
| R14 = 81,8 | | Percent Flicker | 1,7 % | Rf = 62,5 |
| R15 = 61,9 | | Flicker index | 0,004 | Rg = 96,0 |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 2,25 | 440 | 530,12 | 500 | 92,43 | 560 | 246,77 | 620 | 137,23 | 680 | 35,01 | 740 | 6,74 |
| 385 | 2,31 | 445 | 500,76 | 505 | 124,20 | 565 | 243,25 | 625 | 125,27 | 685 | 30,49 | 745 | 5,90 |
| 390 | 2,36 | 450 | 345,07 | 510 | 155,90 | 570 | 238,16 | 630 | 114,05 | 690 | 27,04 | 750 | 5,48 |
| 395 | 3,10 | 455 | 200,47 | 515 | 184,77 | 575 | 232,51 | 635 | 103,22 | 695 | 23,83 | 755 | 5,00 |
| 400 | 3,57 | 460 | 120,21 | 520 | 208,90 | 580 | 225,19 | 640 | 92,89 | 700 | 20,69 | 760 | 4,76 |
| 405 | 7,93 | 465 | 75,48 | 525 | 226,24 | 585 | 217,14 | 645 | 83,12 | 705 | 18,20 | 765 | 4,75 |
| 410 | 18,02 | 470 | 49,63 | 530 | 238,85 | 590 | 207,33 | 650 | 74,13 | 710 | 15,65 | 770 | 3,77 |
| 415 | 41,83 | 475 | 37,89 | 535 | 245,49 | 595 | 196,74 | 655 | 65,91 | 715 | 13,51 | 775 | 3,23 |
| 420 | 92,99 | 480 | 33,71 | 540 | 249,69 | 600 | 185,40 | 660 | 58,62 | 720 | 12,14 | 780 | 1,44 |
| 425 | 182,42 | 485 | 36,19 | 545 | 251,34 | 605 | 174,09 | 665 | 51,65 | 725 | 10,03 | | |
| 430 | 305,00 | 490 | 46,87 | 550 | 250,78 | 610 | 162,06 | 670 | 45,65 | 730 | 9,44 | | |
| 435 | 438,52 | 495 | 65,87 | 555 | 248,96 | 615 | 149,67 | 675 | 40,04 | 735 | 7,55 | | |

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Burgebrach, 10.08.2020

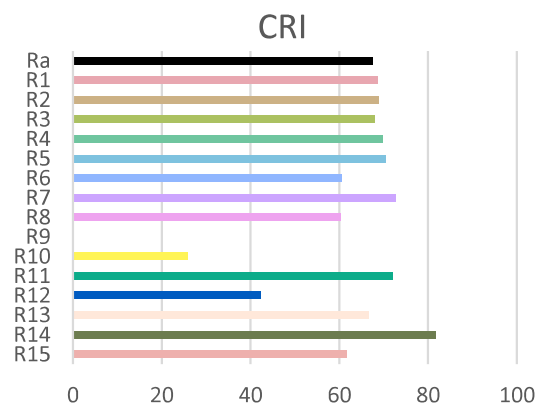
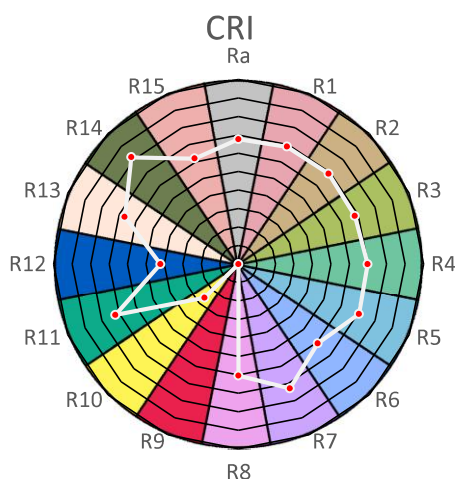
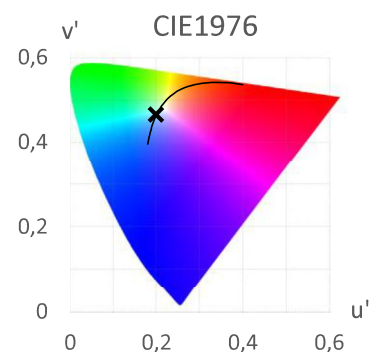
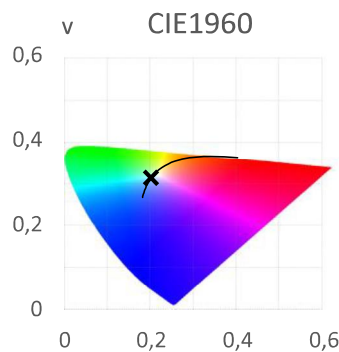
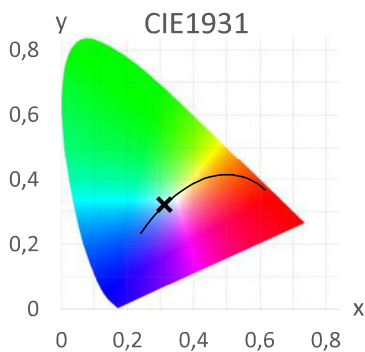
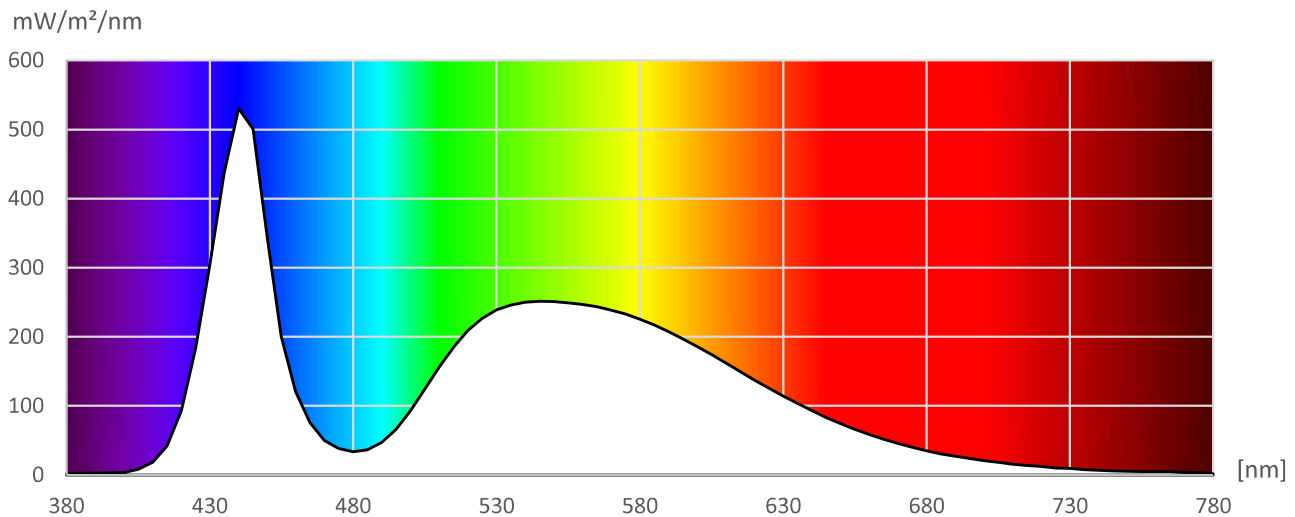
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / white / @ 1 m

Measurement file: 481058_1m_white
 Date of measurement: 10.08.2020
 Time of measurement: 16:22:08



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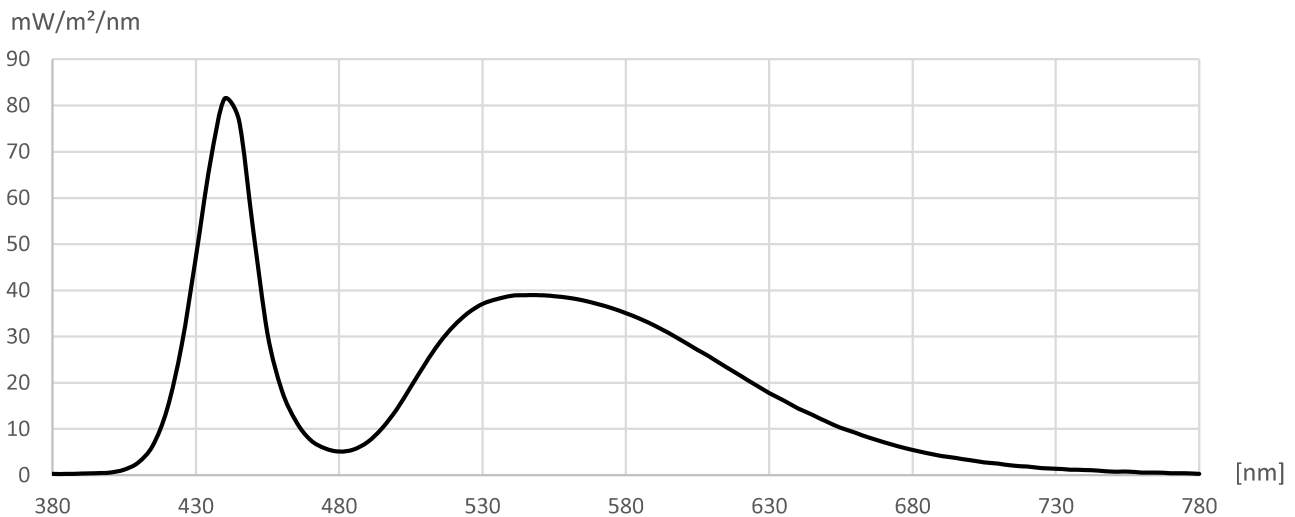
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / white / @ 3 m

Measurement file: 481058_3m_white.CSV
 Date of measurement: 10.08.2020
 Time of measurement: 16:22:18



| | | | | |
|------------|------------|------------------------------------|------------------------|-------------|
| R1 = 68,7 | Ra = 67,5 | Illuminance | 2282,16 lx | CIE1931 |
| R2 = 69,1 | Re = 57,4 | Ee | 7,248 W/m ² | x = 0,3123 |
| R3 = 68,4 | GAI = 89,2 | LER | 314,9 lm/W | y = 0,3243 |
| R4 = 69,9 | | | | |
| R5 = 70,4 | | correlated color temperature (CCT) | 6566 K | CIE1976 |
| R6 = 60,7 | | Duv | 0,001 | u' = 0,1993 |
| R7 = 72,9 | | | | v' = 0,4657 |
| R8 = 60,2 | | Saturation | 7,9 % | |
| R9 = -29,8 | | | | CIE1960 |
| R10 = 26,1 | | Dominant wavelength | 483 nm | u = 0,1993 |
| R11 = 71,9 | | Peak wavelength | 440 nm | v = 0,3105 |
| R12 = 42,2 | | | | |
| R13 = 66,6 | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = 81,9 | | Percent Flicker | < 1.0 % | Rf = 62,5 |
| R15 = 61,7 | | Flicker index | % < 1.0 | Rg = 96,0 |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 0,29 | 440 | 81,45 | 500 | 14,22 | 560 | 38,37 | 620 | 21,50 | 680 | 5,49 | 740 | 1,16 |
| 385 | 0,27 | 445 | 76,89 | 505 | 19,19 | 565 | 37,82 | 625 | 19,63 | 685 | 4,80 | 745 | 0,98 |
| 390 | 0,35 | 450 | 52,92 | 510 | 24,16 | 570 | 37,10 | 630 | 17,82 | 690 | 4,18 | 750 | 0,77 |
| 395 | 0,44 | 455 | 30,76 | 515 | 28,63 | 575 | 36,17 | 635 | 16,19 | 695 | 3,73 | 755 | 0,82 |
| 400 | 0,57 | 460 | 18,43 | 520 | 32,33 | 580 | 35,05 | 640 | 14,49 | 700 | 3,27 | 760 | 0,60 |
| 405 | 1,21 | 465 | 11,60 | 525 | 35,10 | 585 | 33,82 | 645 | 13,06 | 705 | 2,77 | 765 | 0,58 |
| 410 | 2,78 | 470 | 7,60 | 530 | 37,07 | 590 | 32,35 | 650 | 11,61 | 710 | 2,51 | 770 | 0,46 |
| 415 | 6,45 | 475 | 5,79 | 535 | 38,12 | 595 | 30,74 | 655 | 10,28 | 715 | 2,07 | 775 | 0,44 |
| 420 | 14,40 | 480 | 5,13 | 540 | 38,83 | 600 | 28,97 | 660 | 9,19 | 720 | 1,90 | 780 | 0,31 |
| 425 | 28,06 | 485 | 5,57 | 545 | 38,97 | 605 | 27,15 | 665 | 8,09 | 725 | 1,53 | | |
| 430 | 46,94 | 490 | 7,23 | 550 | 38,95 | 610 | 25,35 | 670 | 7,15 | 730 | 1,43 | | |
| 435 | 67,40 | 495 | 10,18 | 555 | 38,74 | 615 | 23,40 | 675 | 6,25 | 735 | 1,22 | | |

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Burgebrach, 10.08.2020

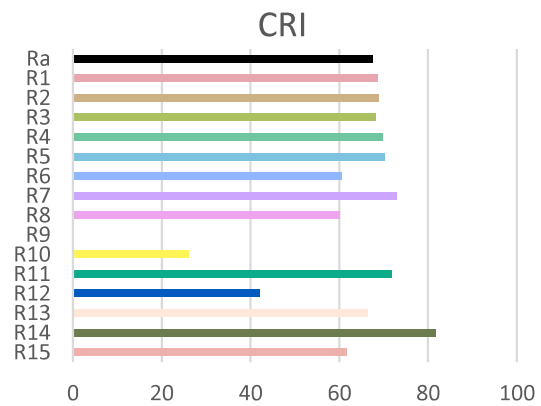
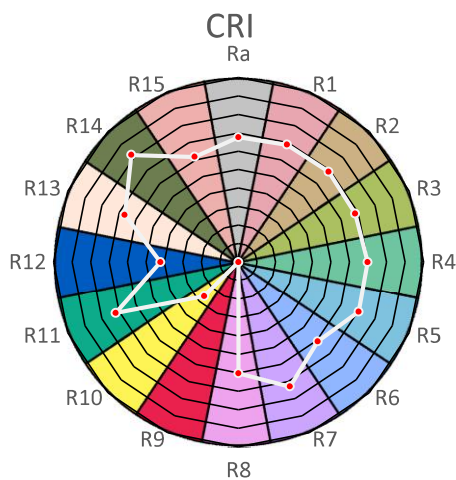
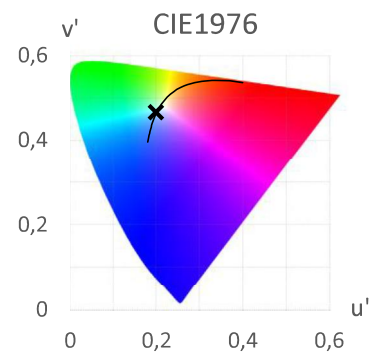
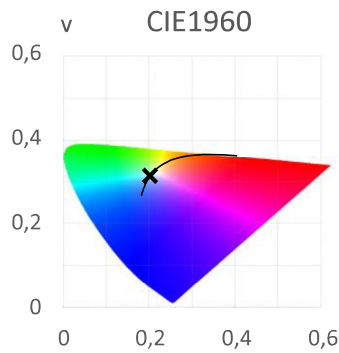
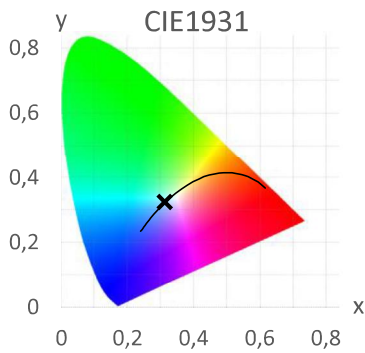
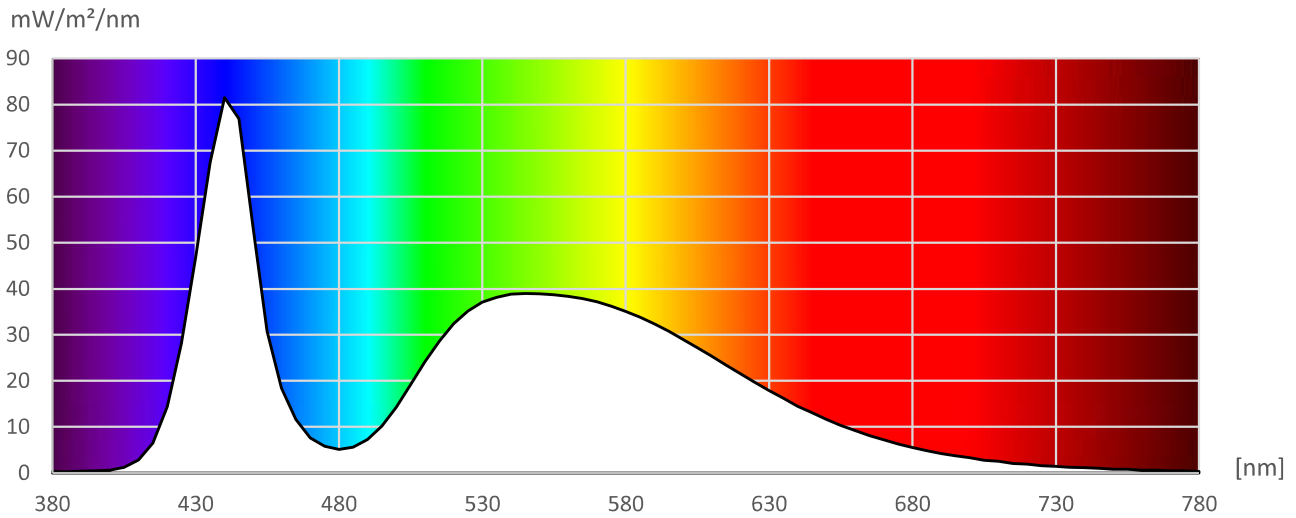
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / white / @ 3 m

Measurement file: 481058_3m_white
 Date of measurement: 10.08.2020
 Time of measurement: 16:22:18



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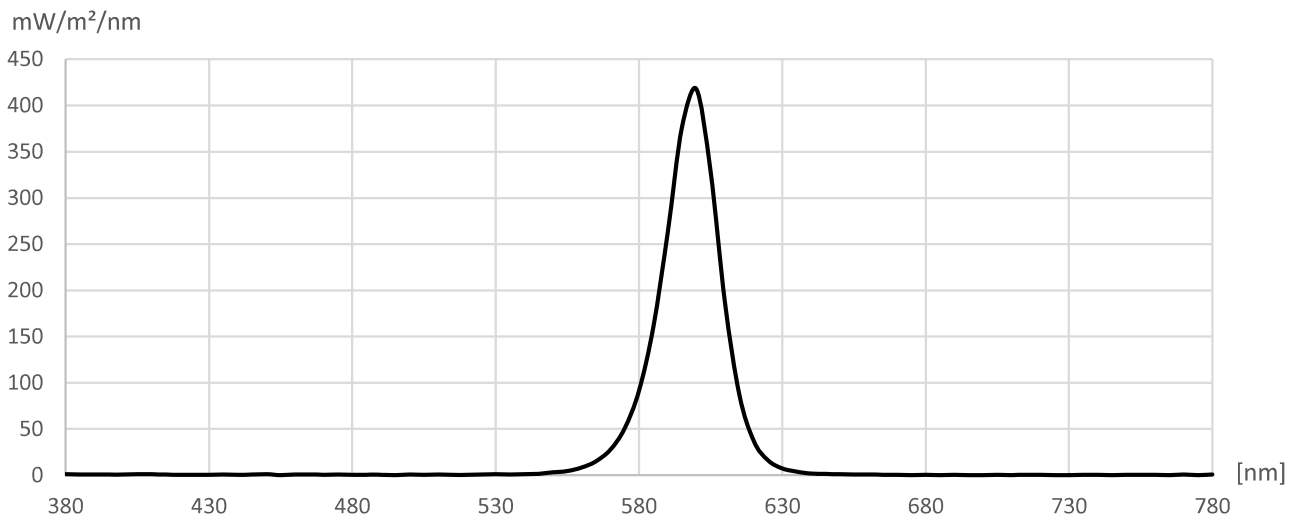
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / amber / @ 1 m

Measurement file: 481058_1m_amber.CS1
Date of measurement: 10.08.2020
Time of measurement: 16:22:43



| | | | | |
|---------|---------|------------------------------------|-------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 4747,46 lx | CIE1931 |
| R2 = - | Re = - | Ee | 10,615 W/m ² | x = 0,6000 |
| R3 = - | GAI = - | LER | 447,3 lm/W | y = 0,3955 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | < 1600 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,3667 |
| R7 = - | | | | v' = 0,5438 |
| R8 = - | | Saturation | 99 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | 595 nm | u = 0,3667 |
| R11 = - | | Peak wavelength | 599 nm | v = 0,3625 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | 0 Hz | TM30 |
| R14 = - | | Percent Flicker | 1,7 % | Rf = - |
| R15 = - | | Flicker index | 0,004 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 1,06 | 440 | 0,35 | 500 | 0,86 | 560 | 8,44 | 620 | 36,98 | 680 | 0,38 | 740 | 0,49 |
| 385 | 0,81 | 445 | 0,68 | 505 | 0,38 | 565 | 15,12 | 625 | 16,21 | 685 | 0,24 | 745 | 0,00 |
| 390 | 0,85 | 450 | 1,21 | 510 | 0,67 | 570 | 27,44 | 630 | 7,38 | 690 | 0,29 | 750 | 0,47 |
| 395 | 0,91 | 455 | 0,12 | 515 | 0,55 | 575 | 50,64 | 635 | 3,91 | 695 | 0,26 | 755 | 0,33 |
| 400 | 0,64 | 460 | 0,80 | 520 | 0,29 | 580 | 91,25 | 640 | 1,80 | 700 | 0,19 | 760 | 0,49 |
| 405 | 1,14 | 465 | 0,94 | 525 | 0,81 | 585 | 160,55 | 645 | 1,41 | 705 | 0,37 | 765 | 0,00 |
| 410 | 1,02 | 470 | 0,62 | 530 | 1,01 | 590 | 262,67 | 650 | 1,12 | 710 | 0,28 | 770 | 0,72 |
| 415 | 0,70 | 475 | 0,70 | 535 | 0,74 | 595 | 375,90 | 655 | 0,80 | 715 | 0,59 | 775 | 0,14 |
| 420 | 0,46 | 480 | 0,43 | 540 | 1,32 | 600 | 418,03 | 660 | 0,92 | 720 | 0,42 | 780 | 0,76 |
| 425 | 0,41 | 485 | 0,61 | 545 | 1,49 | 605 | 328,43 | 665 | 0,62 | 725 | 0,19 | | |
| 430 | 0,49 | 490 | 0,59 | 550 | 3,21 | 610 | 186,20 | 670 | 0,55 | 730 | 0,10 | | |
| 435 | 0,91 | 495 | 0,16 | 555 | 4,44 | 615 | 86,86 | 675 | 0,15 | 735 | 0,41 | | |

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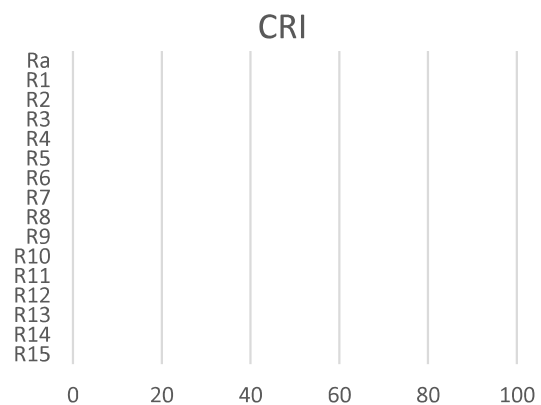
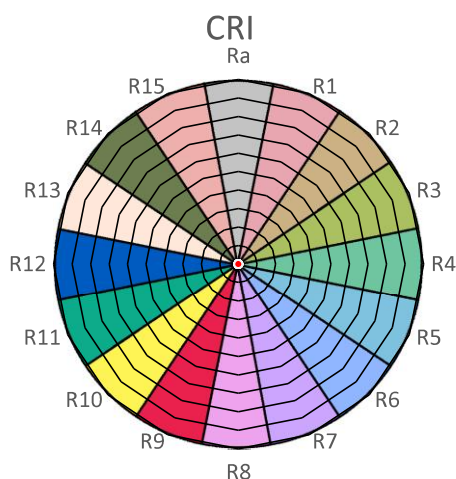
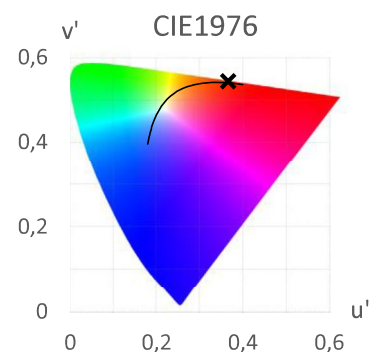
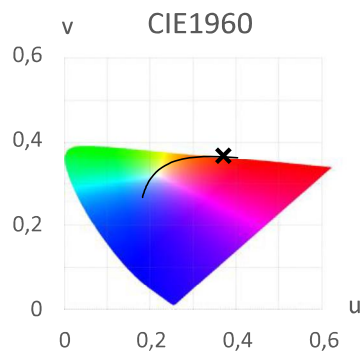
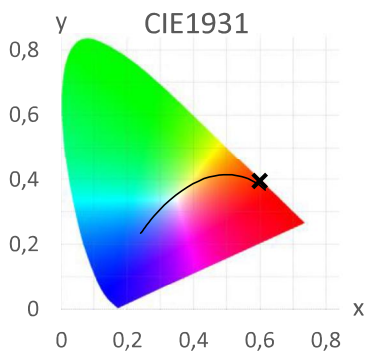
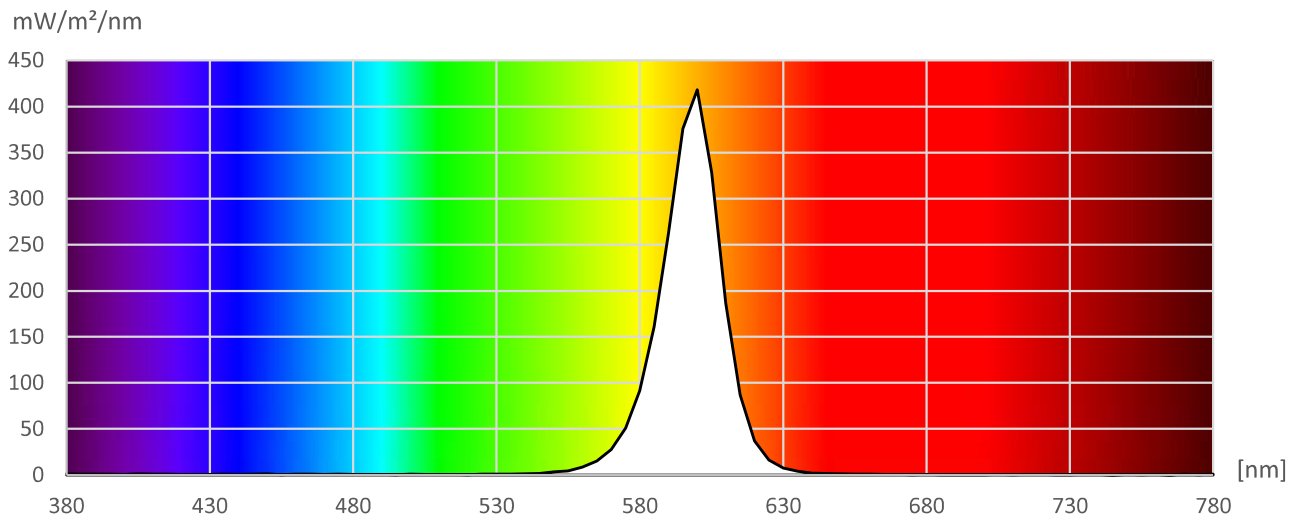
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / amber / @ 1 m

Measurement file: 481058_1m_ambe
 Date of measurement: 10.08.2020
 Time of measurement: 16:22:43



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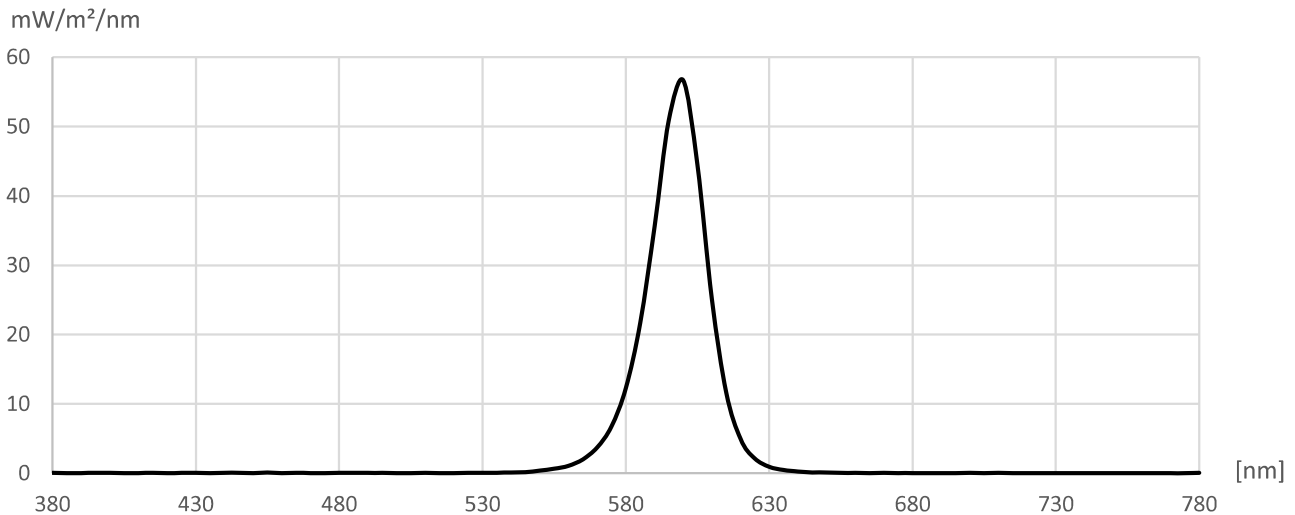
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / amber / @ 3 m

Measurement file: 481058_3m_amber.CSI
Date of measurement: 10.08.2020
Time of measurement: 16:22:50



| | | | | |
|---------|---------|------------------------------------|------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 639,5 lx | CIE1931 |
| R2 = - | Re = - | Ee | 1,420 W/m ² | x = 0,6016 |
| R3 = - | GAI = - | LER | 450,5 lm/W | y = 0,3958 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | < 1600 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,3676 |
| R7 = - | | | | v' = 0,5442 |
| R8 = - | | Saturation | 99,5 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | 595 nm | u = 0,3676 |
| R11 = - | | Peak wavelength | 599 nm | v = 0,3628 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = - | | Percent Flicker | < 1.0 % | Rf = - |
| R15 = - | | Flicker index | % < 1.0 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 0,07 | 440 | 0,06 | 500 | 0,02 | 560 | 1,06 | 620 | 4,93 | 680 | 0,04 | 740 | 0,00 |
| 385 | 0,02 | 445 | 0,08 | 505 | 0,01 | 565 | 2,01 | 625 | 2,14 | 685 | 0,00 | 745 | 0,01 |
| 390 | 0,04 | 450 | 0,02 | 510 | 0,05 | 570 | 3,70 | 630 | 0,95 | 690 | 0,03 | 750 | 0,02 |
| 395 | 0,07 | 455 | 0,09 | 515 | 0,02 | 575 | 6,76 | 635 | 0,46 | 695 | 0,01 | 755 | 0,00 |
| 400 | 0,06 | 460 | 0,02 | 520 | 0,02 | 580 | 12,27 | 640 | 0,26 | 700 | 0,06 | 760 | 0,00 |
| 405 | 0,00 | 465 | 0,04 | 525 | 0,06 | 585 | 21,66 | 645 | 0,13 | 705 | 0,00 | 765 | 0,00 |
| 410 | 0,03 | 470 | 0,04 | 530 | 0,04 | 590 | 35,56 | 650 | 0,13 | 710 | 0,04 | 770 | 0,00 |
| 415 | 0,07 | 475 | 0,00 | 535 | 0,08 | 595 | 50,84 | 655 | 0,04 | 715 | 0,00 | 775 | 0,00 |
| 420 | 0,00 | 480 | 0,06 | 540 | 0,11 | 600 | 56,68 | 660 | 0,07 | 720 | 0,02 | 780 | 0,05 |
| 425 | 0,05 | 485 | 0,06 | 545 | 0,18 | 605 | 44,46 | 665 | 0,00 | 725 | 0,00 | | |
| 430 | 0,08 | 490 | 0,04 | 550 | 0,38 | 610 | 25,13 | 670 | 0,05 | 730 | 0,03 | | |
| 435 | 0,02 | 495 | 0,05 | 555 | 0,64 | 615 | 11,64 | 675 | 0,03 | 735 | 0,00 | | |

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Burgebrach, 10.08.2020

First, last name of inspector

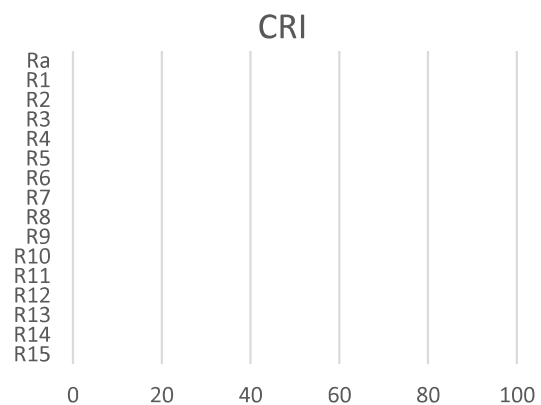
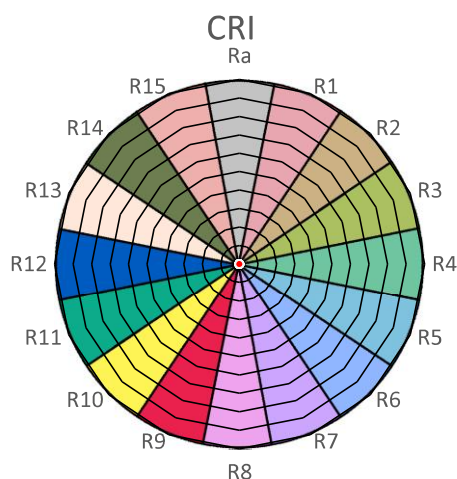
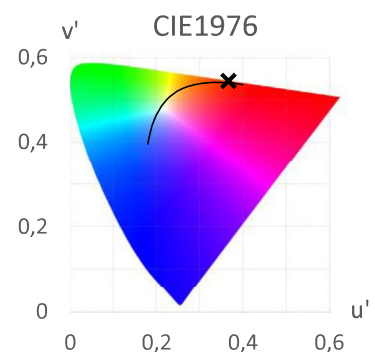
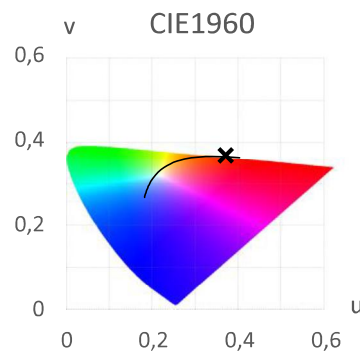
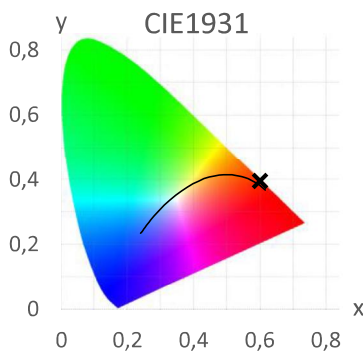
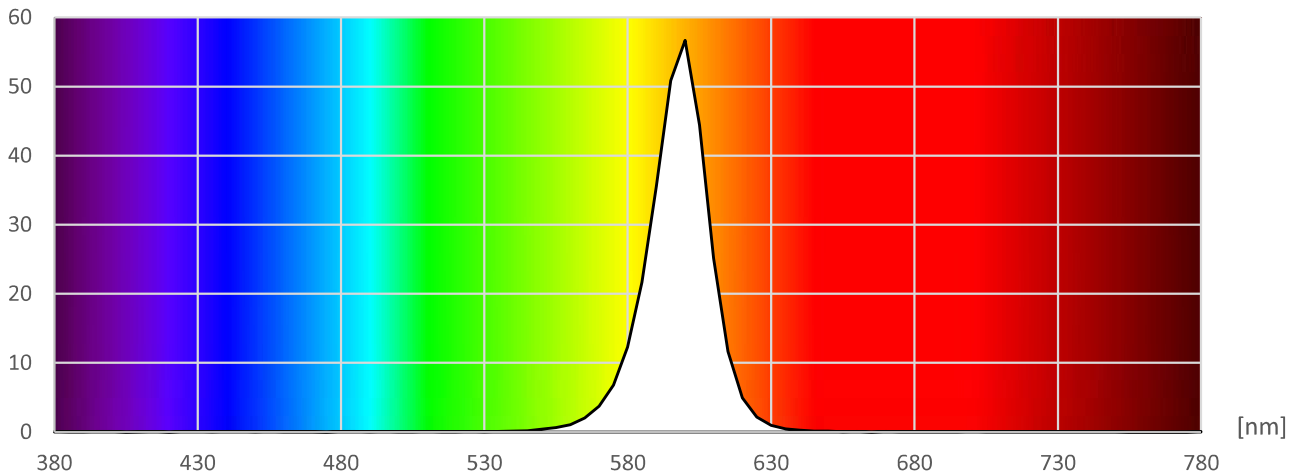
Measurement protocol

th•mann

Test object: Ignition
 2bright Par 18 IP
 481058 / amber / @ 3 m

Measurement file: 481058_3m_ambe
 Date of measurement: 10.08.2020
 Time of measurement: 16:22:50

mW/m²/nm



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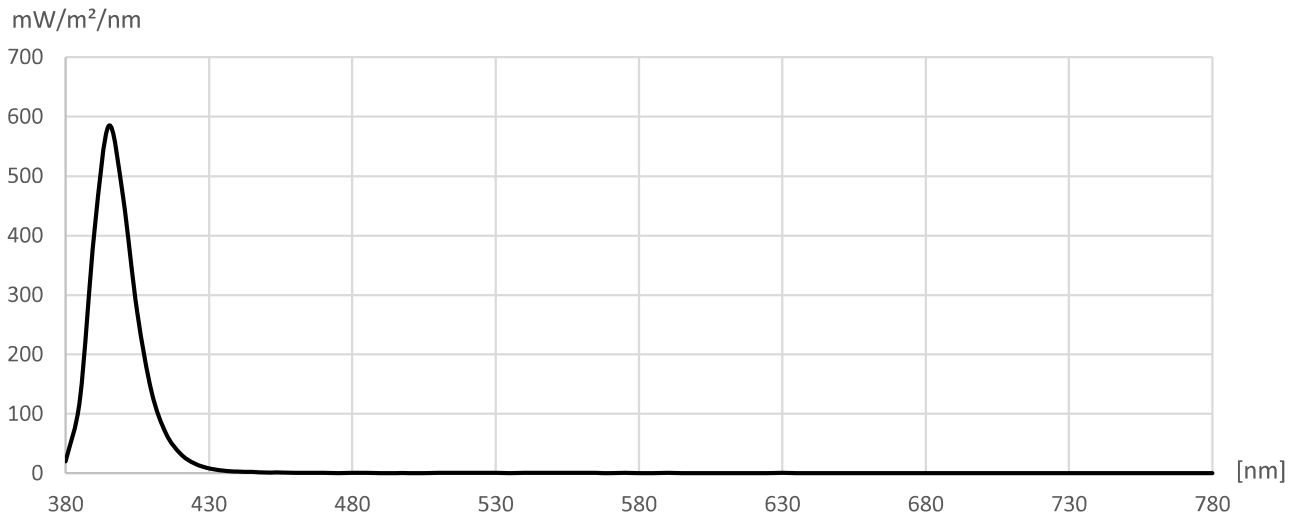
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Par 18 IP
481058 / UV / @ 1 m

Measurement file: 481058_1m_uv.CSV
Date of measurement: 10.08.2020
Time of measurement: 16:23:24



| | | | | |
|---------|---------|------------------------------------|-------------------------|-------------|
| R1 = - | Ra = - | Illuminance | 36,31 lx | CIE1931 |
| R2 = - | Re = - | Ee | 10,819 W/m ² | x = 0,1794 |
| R3 = - | GAI = - | LER | 3,4 lm/W | y = 0,0377 |
| R4 = - | | | | |
| R5 = - | | correlated color temperature (CCT) | > 50000 K | CIE1976 |
| R6 = - | | Duv | - | u' = 0,2320 |
| R7 = - | | | | v' = 0,1097 |
| R8 = - | | Saturation | 85,3 % | |
| R9 = - | | | | CIE1960 |
| R10 = - | | Dominant wavelength | #NV | u = 0,2320 |
| R11 = - | | Peak wavelength | 394 nm | v = 0,0731 |
| R12 = - | | | | |
| R13 = - | | Flicker frequency | % < 1.0 Hz | TM30 |
| R14 = - | | Percent Flicker | < 1.0 % | Rf = - |
| R15 = - | | Flicker index | % < 1.0 | Rg = - |

| [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm | [nm] | mW/m ² /nm |
|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|
| 380 | 20,33 | 440 | 2,69 | 500 | 0,37 | 560 | 0,50 | 620 | 0,20 | 680 | 0,14 | 740 | 0,00 |
| 385 | 124,90 | 445 | 2,07 | 505 | 0,17 | 565 | 0,47 | 625 | 0,09 | 685 | 0,09 | 745 | 0,42 |
| 390 | 406,17 | 450 | 1,00 | 510 | 0,75 | 570 | 0,16 | 630 | 0,46 | 690 | 0,09 | 750 | 0,00 |
| 395 | 584,43 | 455 | 1,50 | 515 | 0,65 | 575 | 0,52 | 635 | 0,05 | 695 | 0,26 | 755 | 0,36 |
| 400 | 464,19 | 460 | 0,82 | 520 | 0,68 | 580 | 0,01 | 640 | 0,12 | 700 | 0,08 | 760 | 0,00 |
| 405 | 271,00 | 465 | 0,73 | 525 | 0,76 | 585 | 0,27 | 645 | 0,16 | 705 | 0,24 | 765 | 0,40 |
| 410 | 136,78 | 470 | 0,81 | 530 | 0,90 | 590 | 0,47 | 650 | 0,00 | 710 | 0,03 | 770 | 0,11 |
| 415 | 66,92 | 475 | 0,40 | 535 | 0,33 | 595 | 0,17 | 655 | 0,19 | 715 | 0,23 | 775 | 0,04 |
| 420 | 32,82 | 480 | 0,62 | 540 | 0,76 | 600 | 0,24 | 660 | 0,33 | 720 | 0,38 | 780 | 0,01 |
| 425 | 16,14 | 485 | 0,60 | 545 | 0,58 | 605 | 0,13 | 665 | 0,10 | 725 | 0,21 | | |
| 430 | 8,34 | 490 | 0,09 | 550 | 0,53 | 610 | 0,24 | 670 | 0,15 | 730 | 0,01 | | |
| 435 | 4,31 | 495 | 0,42 | 555 | 0,60 | 615 | 0,10 | 675 | 0,02 | 735 | 0,32 | | |

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Sebastian Laske

Burgebrach, 10.08.2020

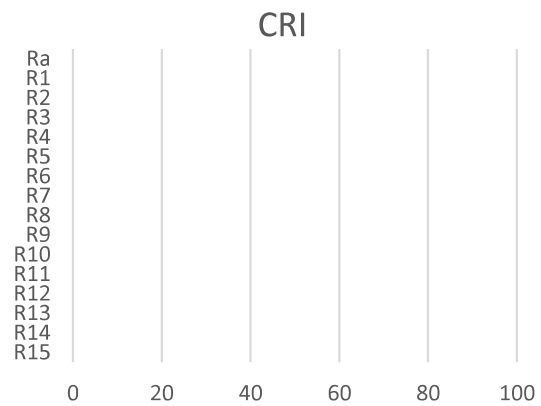
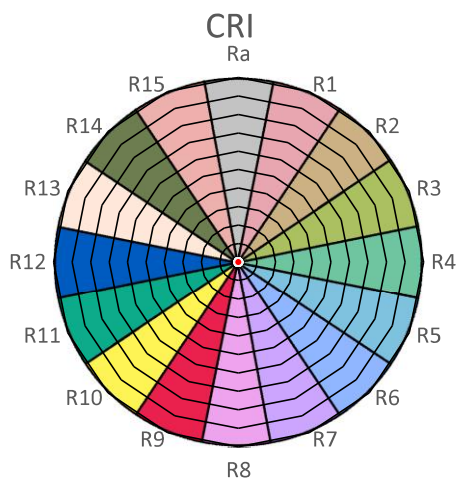
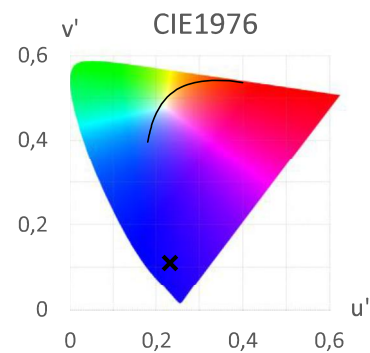
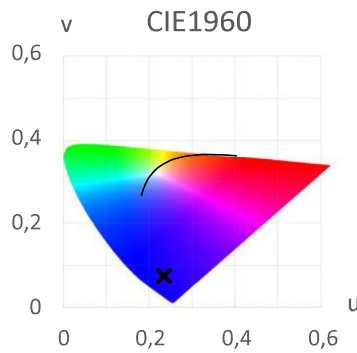
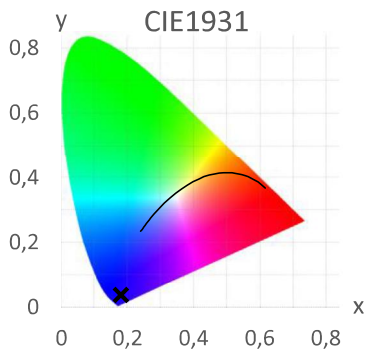
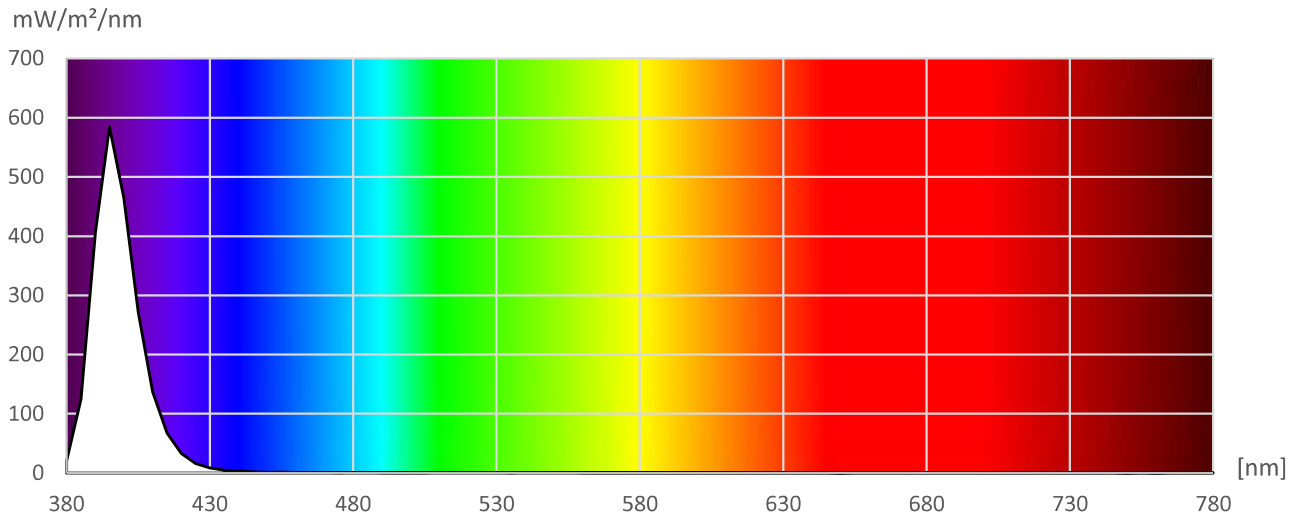
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Par 18 IP
 481058 / UV / @ 1 m

Measurement file: 481058_1m_uv.CS
 Date of measurement: 10.08.2020
 Time of measurement: 16:23:24



Thomann GmbH
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Sebastian Laske

Burgebrach, 10.08.2020

First, last name of inspector