



***PRODUCT SPECTRAL
DISTRIBUTION CHARTS***

Preface

Ensuring our customers have the critical data they need to solve their lighting applications, Advanced illumination (Ai) has invested considerable time and effort into fully characterizing all the LED types we utilize in our full line of machine vision lighting products. Along with our extensive SignaTech™ characterization process, we also acquire high-resolution spectral data from over 40 different LEDs, ranging from 365nm UV to 940nm NIR, which can be built into over 1 million Build-to-Order lighting products.

We acquire each spectrum with our own calibrated spectrometer and integrating sphere to ensure we are offering high-quality, accurate spectral distribution data from the LED bins we deploy. Most spectral output curves provided in our industry come from the LED manufacturers and may not reflect current LEDs as they evolve over time. Having accurate spectral data can spell the difference between the success and failure of a machine vision system.

The detailed spectral plot and the raw spectral distribution data, may be found on each lighting product's web site page located in the **Downloads** tab. To access the correct LED data, note the part number for the desired LED (ex. 098195) and open the Raw Spectral Distribution Data file. Locate and select the associated LED to view the correct worksheet.

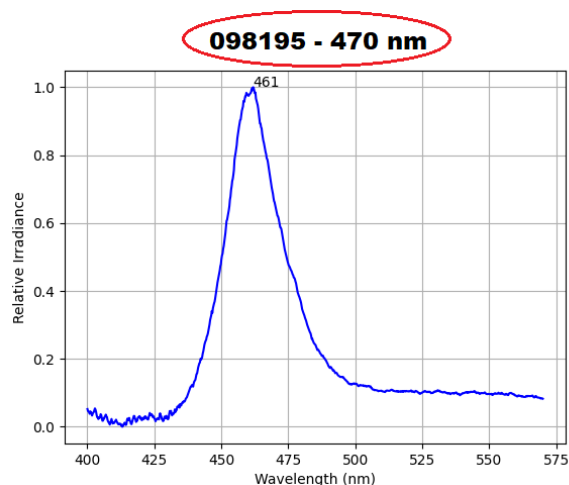


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- 1.4 CBXXYY
- 1.5 CXXYY
- 1.6 BL-S100150
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- 7.4 RL113
- 7.5 RL5064
- 7.6 RL36120
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BRIGHT FIELD LIGHTS (cont.)

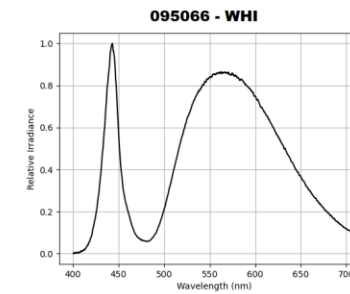
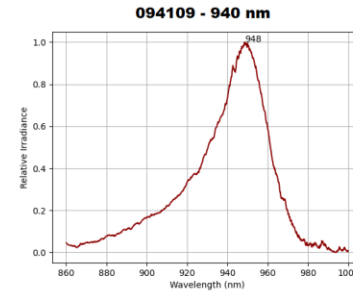
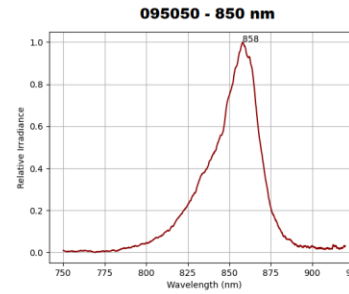
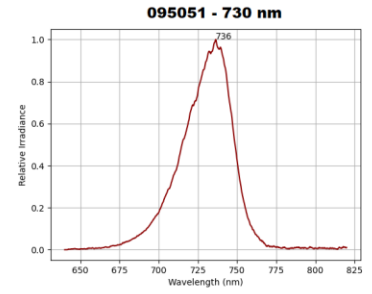
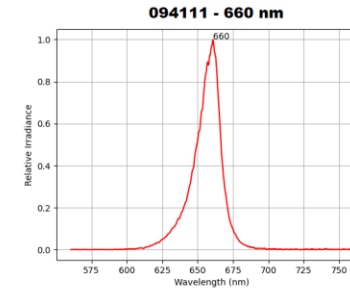
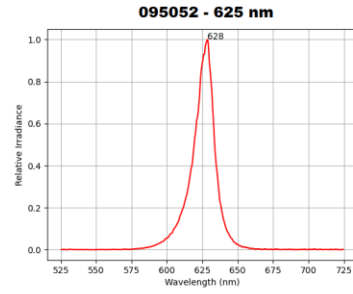
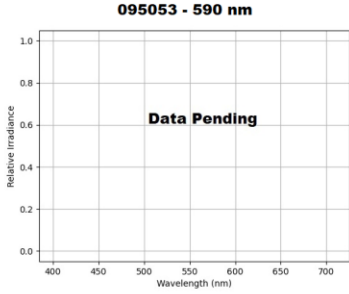
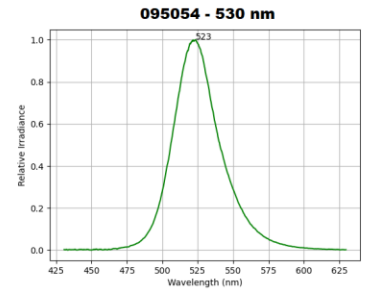
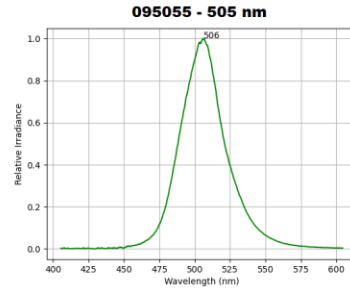
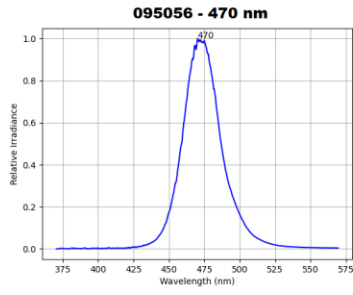
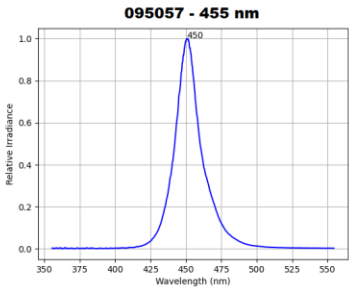
- 7.7 RL4260
 - 7.7.1 RGB
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- 8.11 SL147
- 8.12 SL162
- 8.13 SL112
- 8.14 SL223
- 8.15 SL1236
- 8.16 SL2420
- 8.17 SL2507

Group A

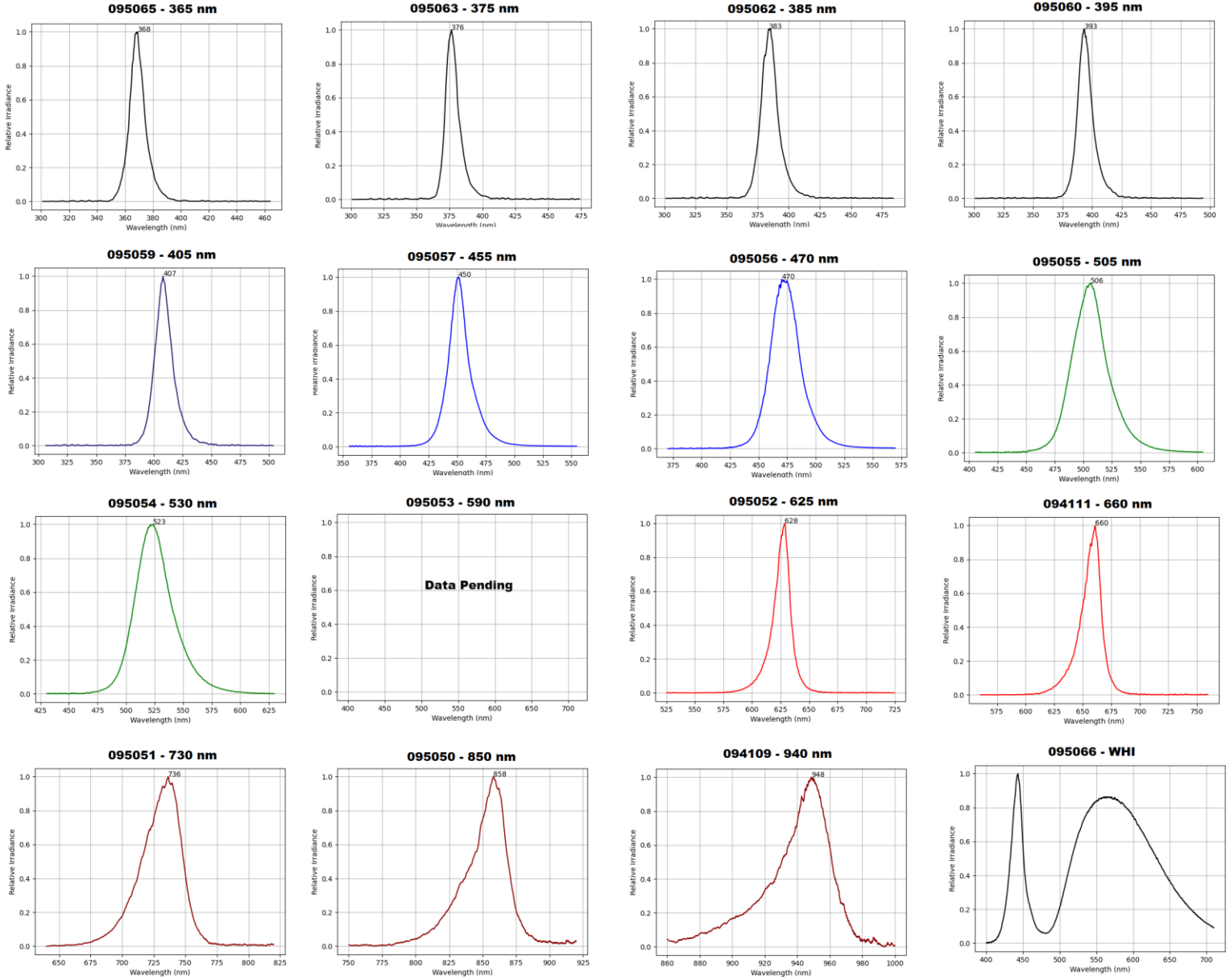
(AL247, AL-S025300, DL071, BL-S100150, BL-S1050075, RL-S052120, SL-S100150, SL-1050075)



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Group B

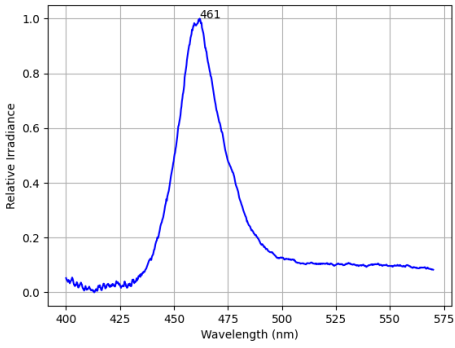
(AL143, AL295, LL174, RL121, RL127, SL147, SL164, SL243, SL244)



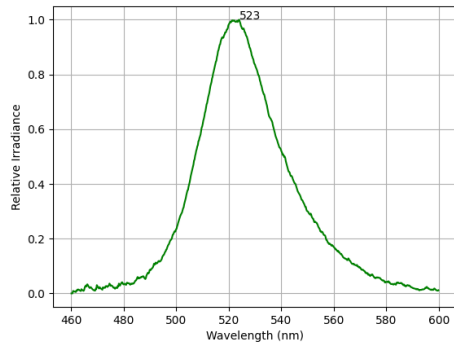
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Group C
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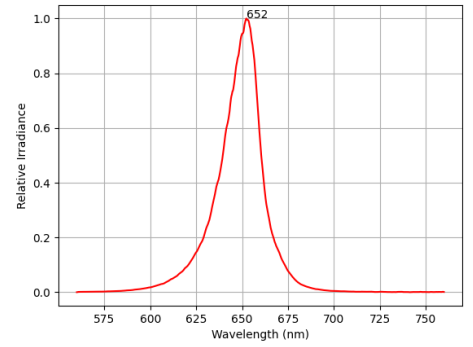
098195 - 470 nm



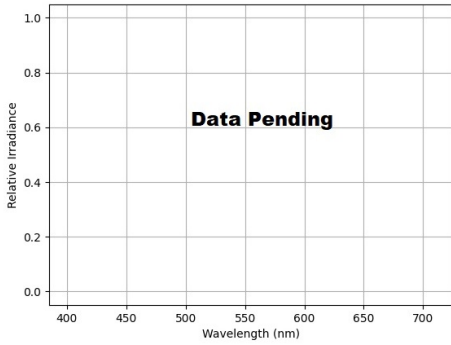
092664 - 520 nm



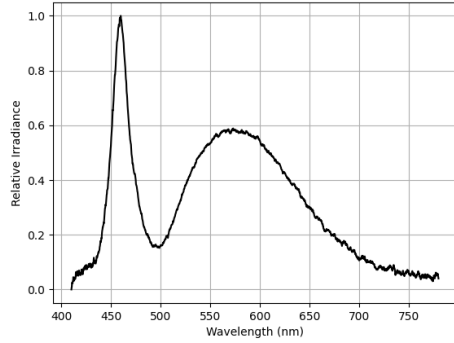
094178 - 660 nm



XZTH154W - 880 nm

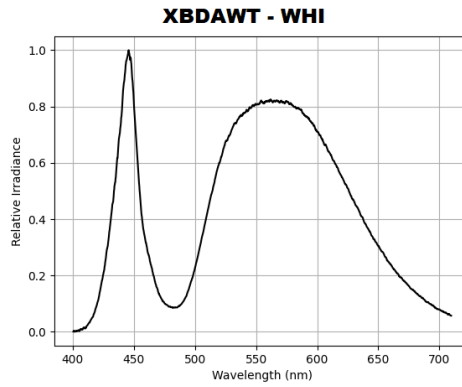
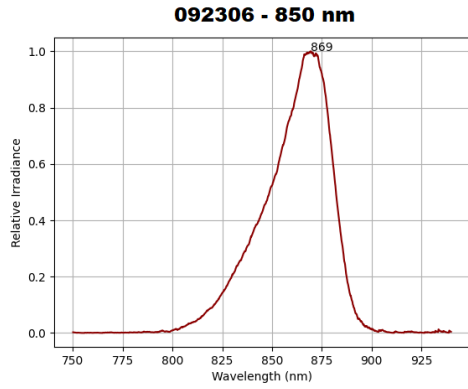
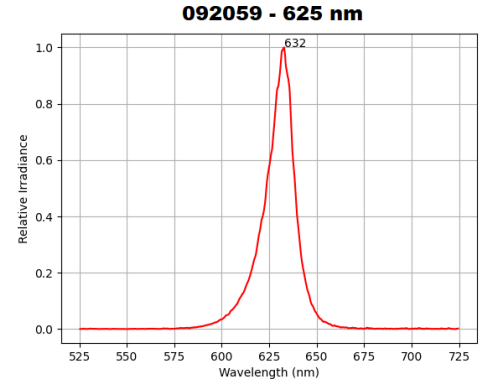
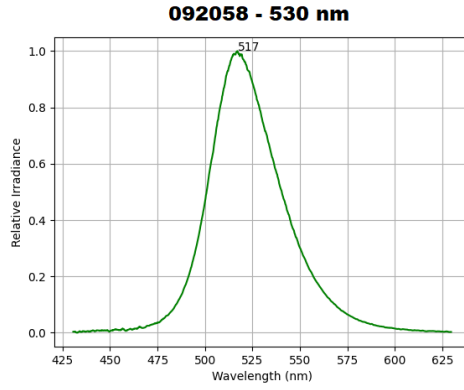
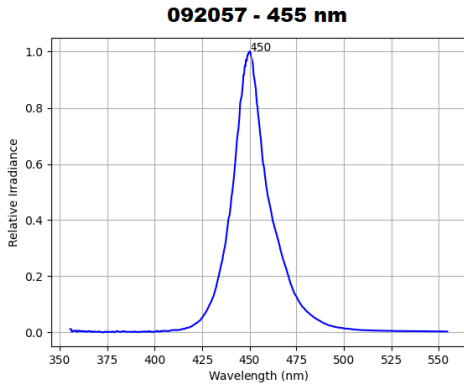


098130 - WHI



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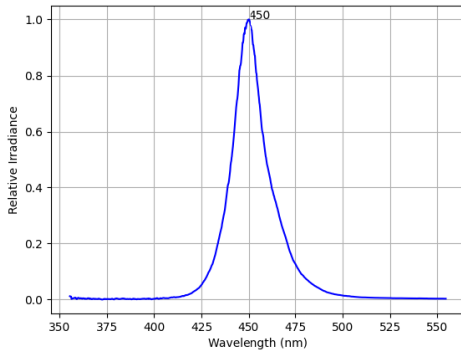
Group D
(BTXXXXYY, BXXXXY, CXXXXY, FXXXXY)



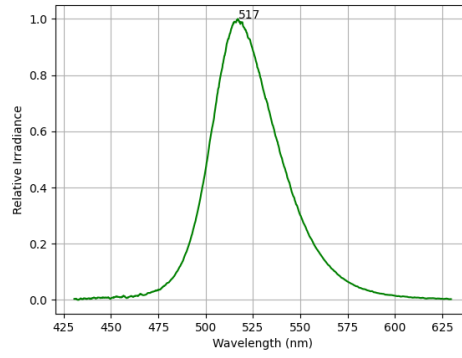
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Group E (BL138)

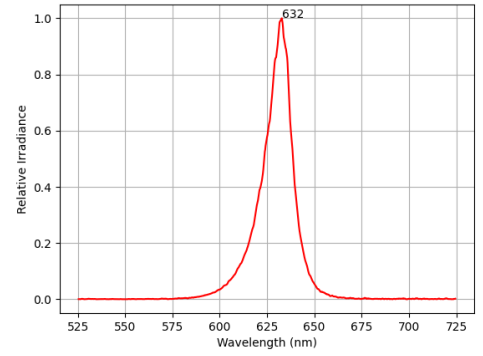
092057 - 455 nm



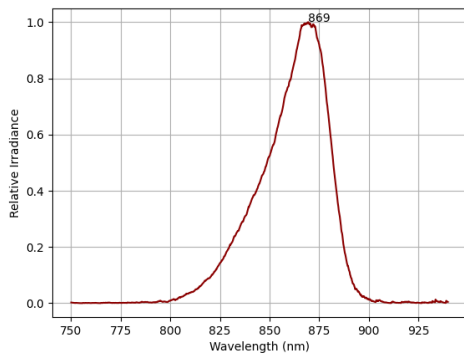
092058 - 530 nm



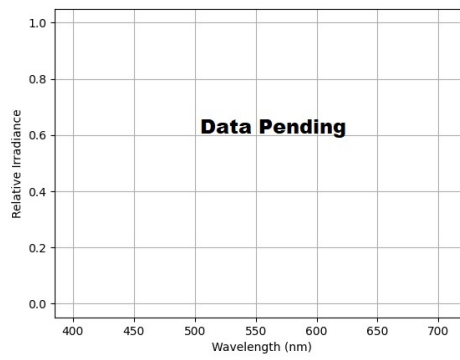
092059 - 625 nm



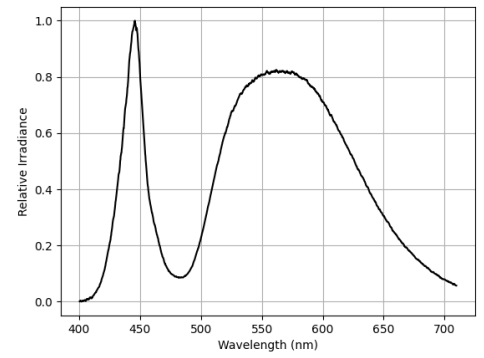
092306 - 850 nm



RGB



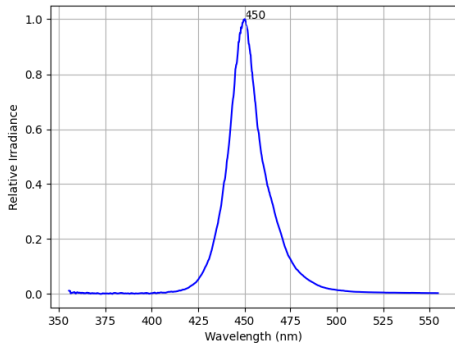
XBDAWT - WHI



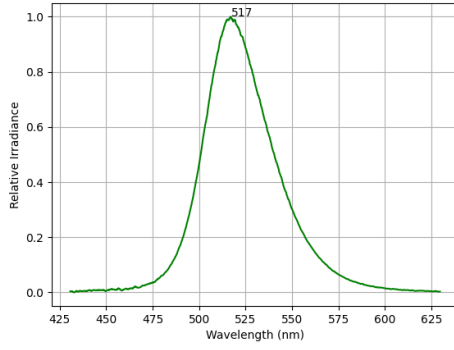
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Group F (DF196, DF198)

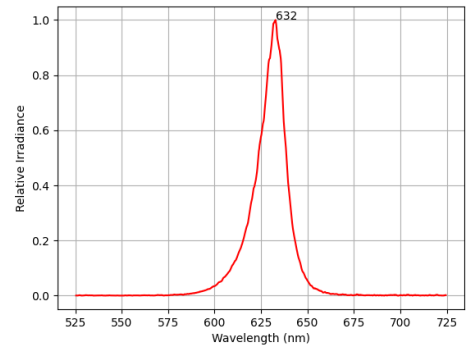
092057 - 455 nm



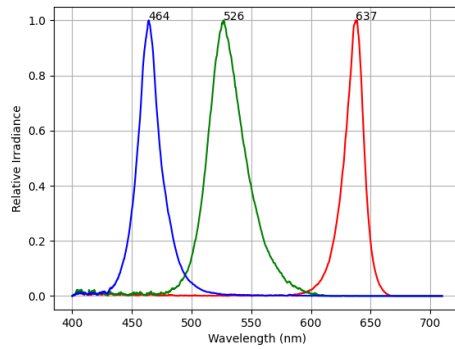
092058 - 530 nm



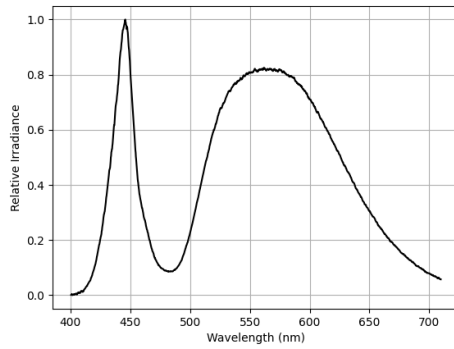
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RGB



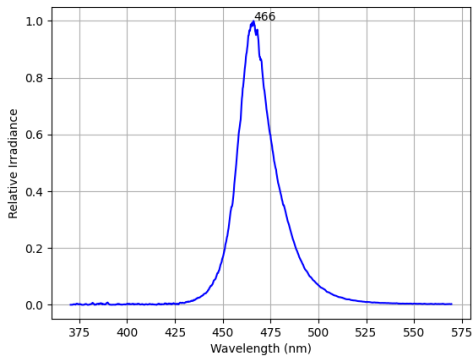
XBDAWT - WHI



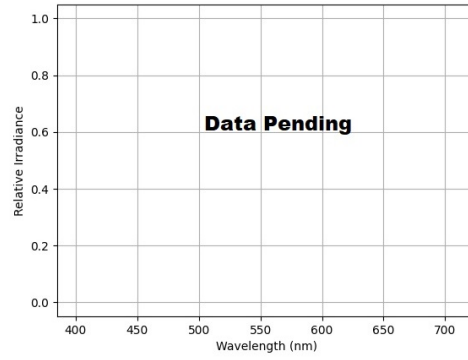
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Group G
(BL168)

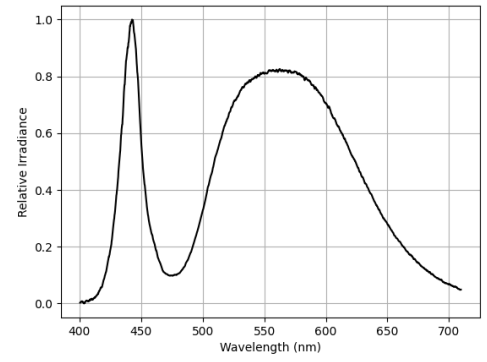
XPEBLU - 470 nm



XPERED - 625 nm

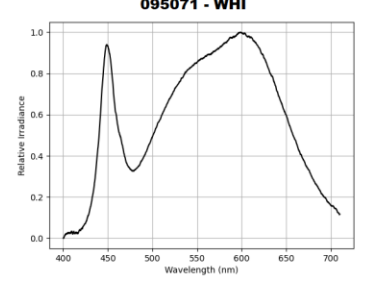
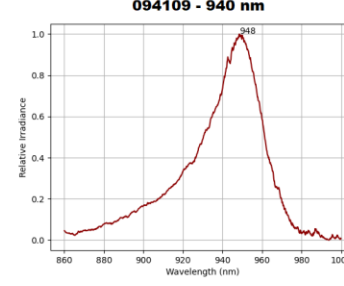
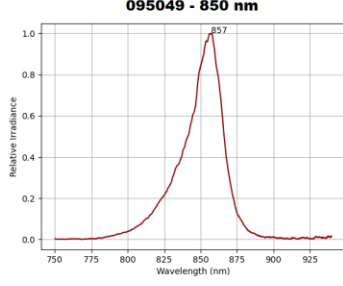
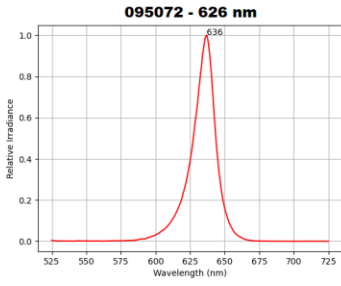
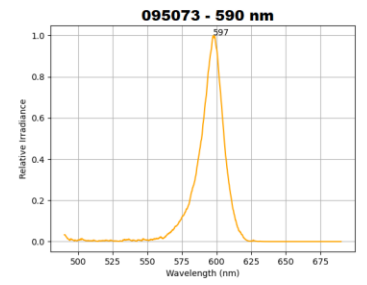
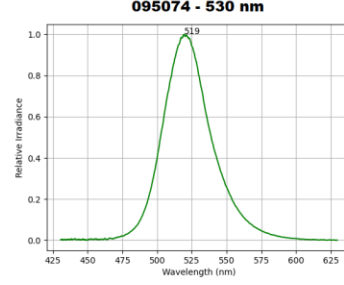
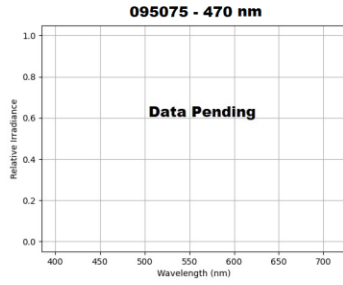
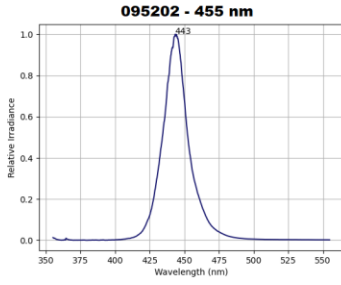


094230 - WHI



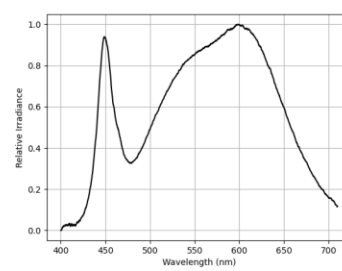
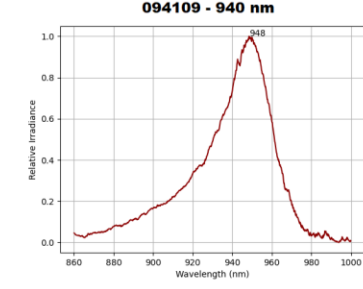
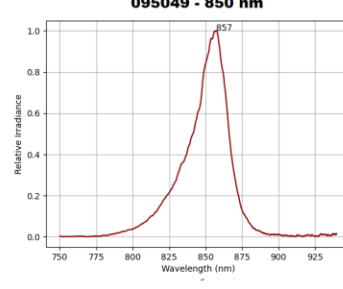
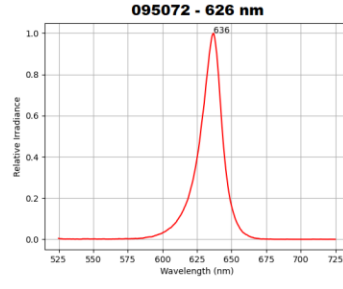
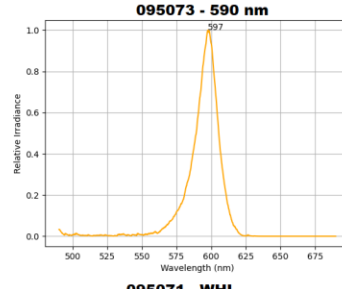
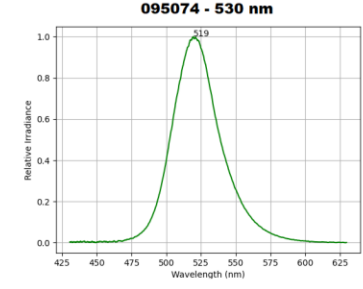
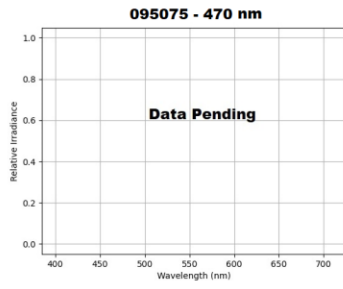
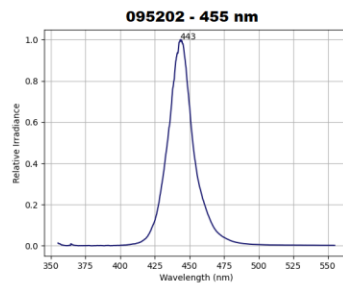
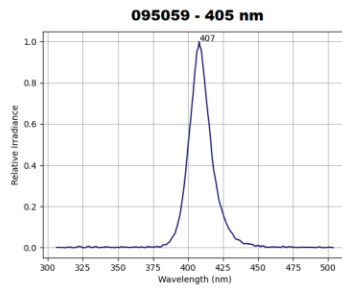
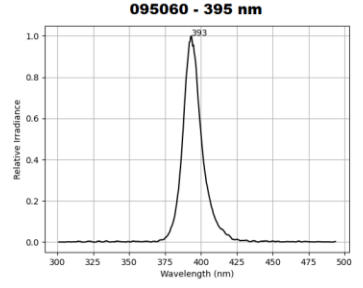
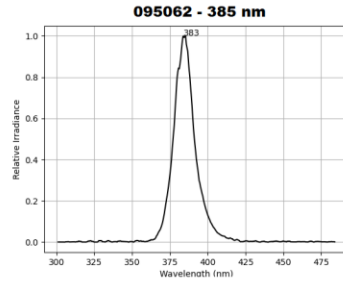
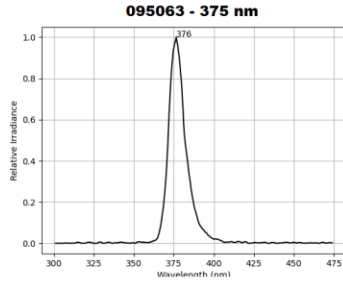
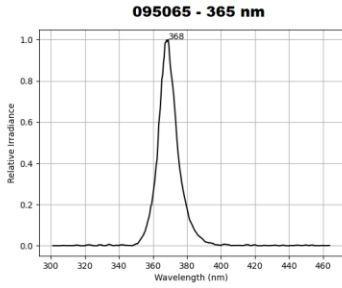
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Group H (BL313, DL151)



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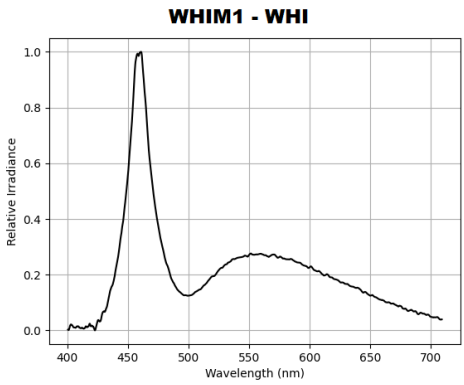
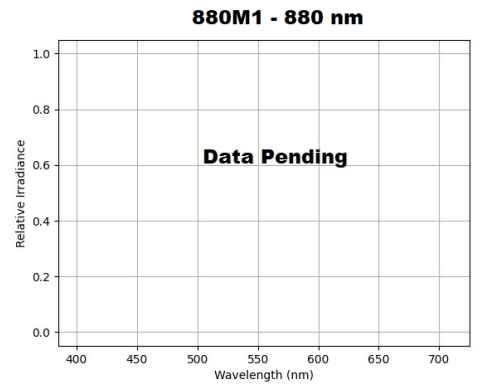
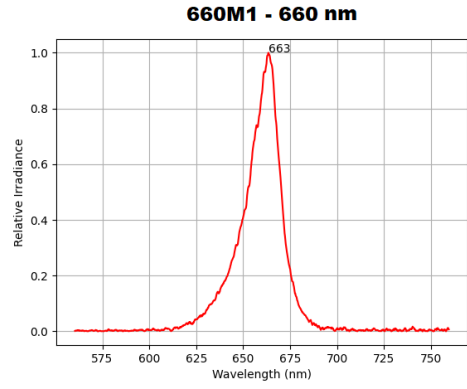
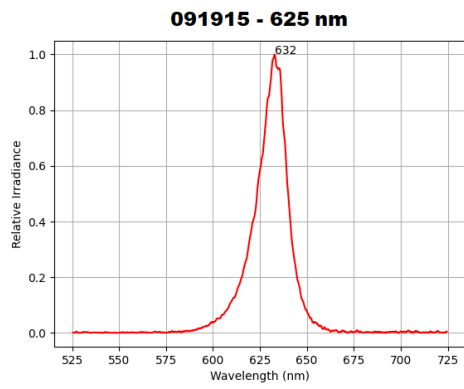
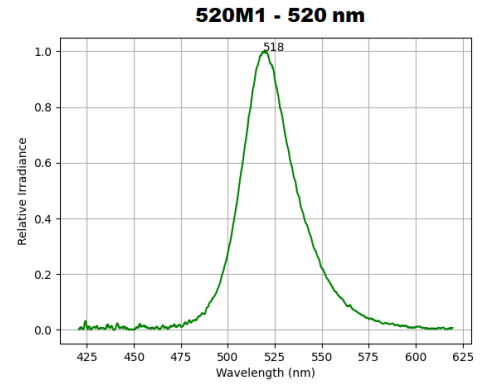
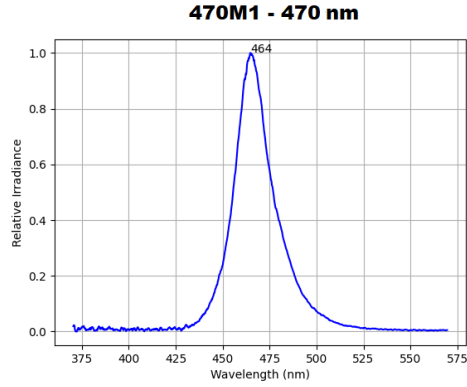
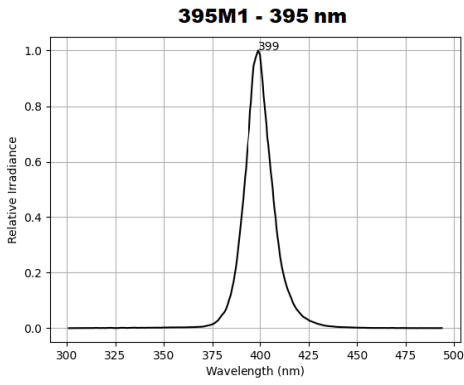
Group I (DL225, SL223)



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Group J

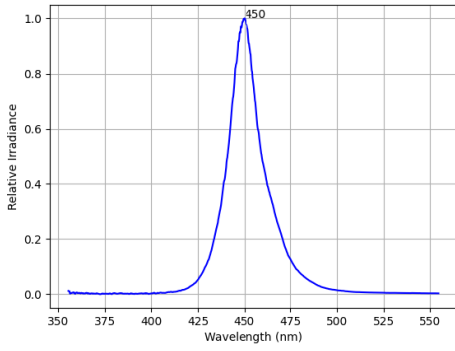
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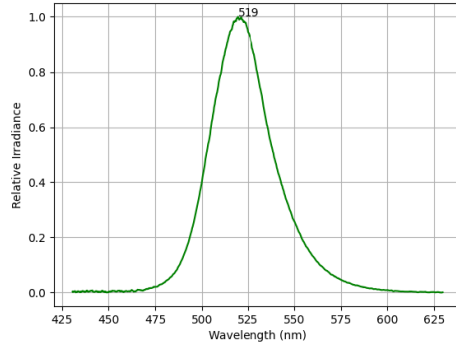
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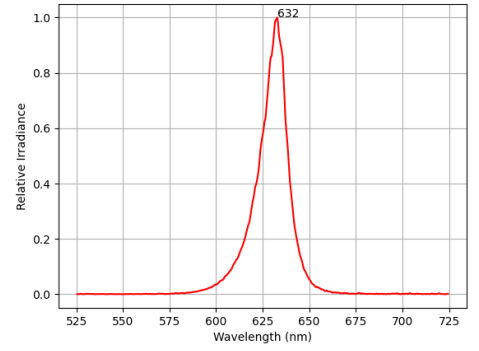
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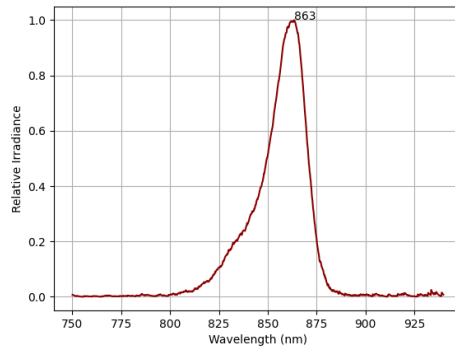
095074 - 530 nm



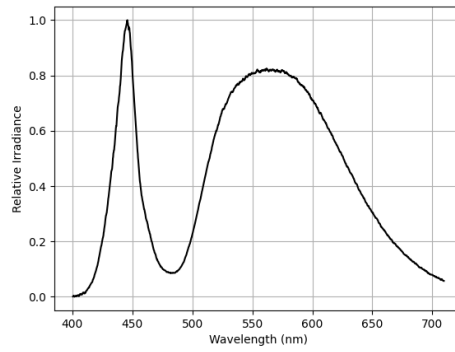
092059 - 625 nm



SFH4232-Z - 850 nm

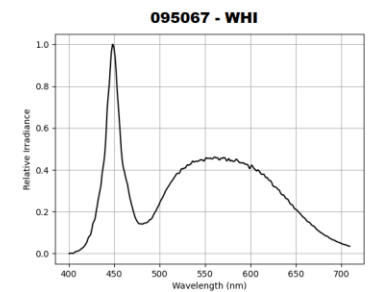
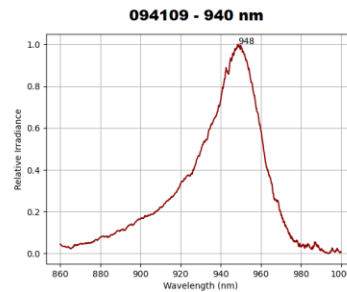
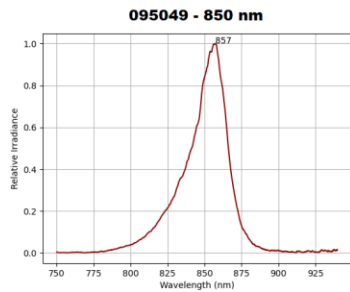
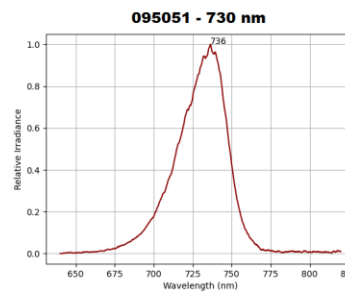
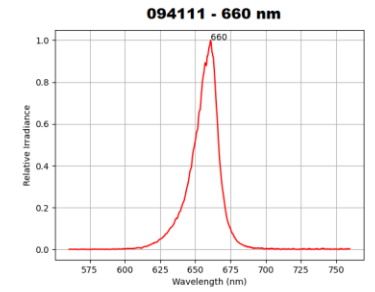
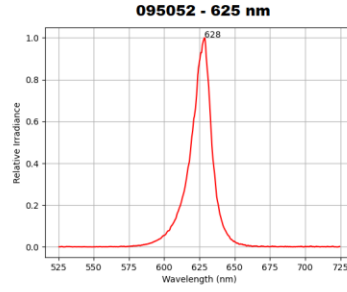
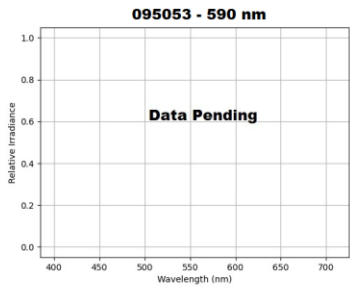
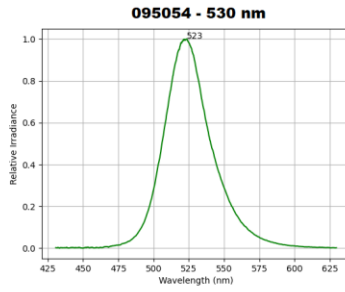
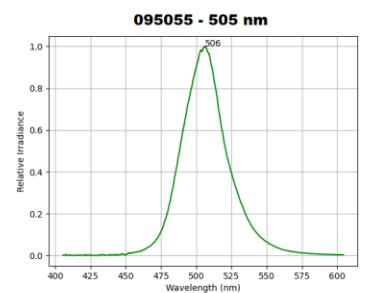
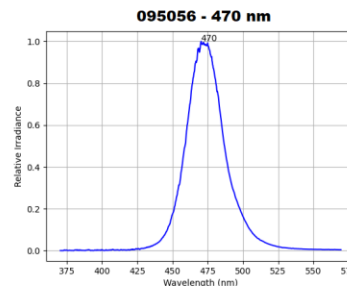
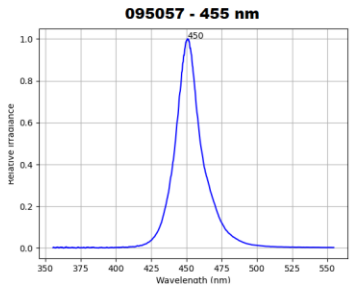
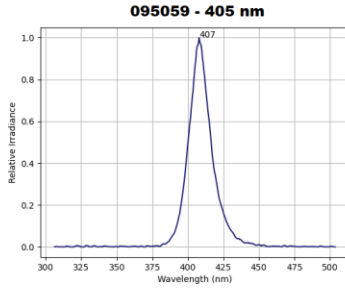
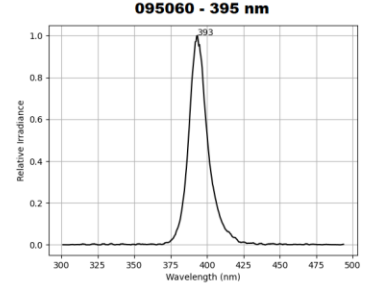
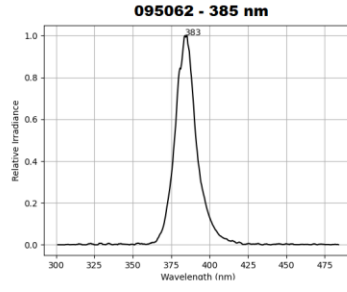
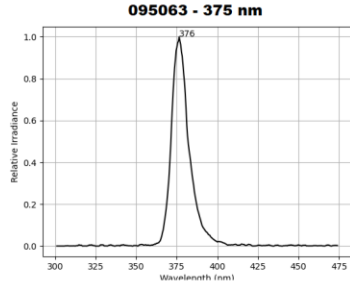
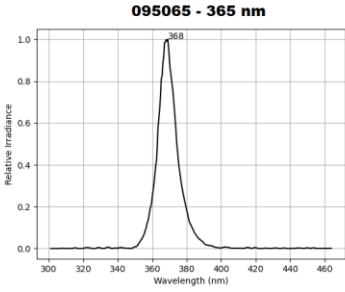


XBDAWT - WHI



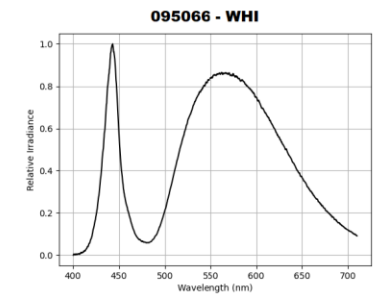
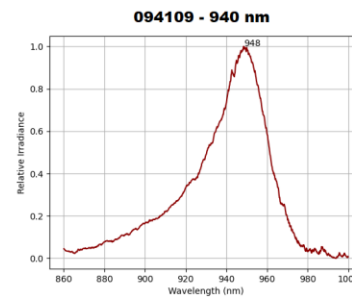
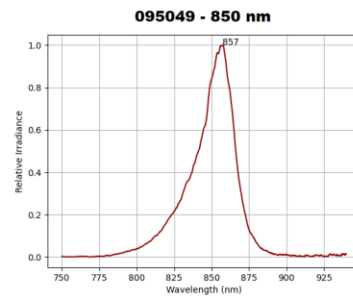
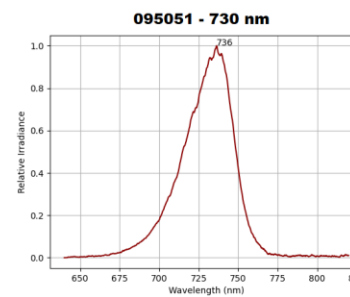
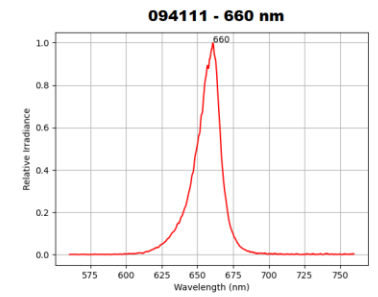
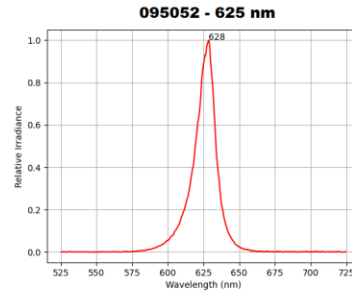
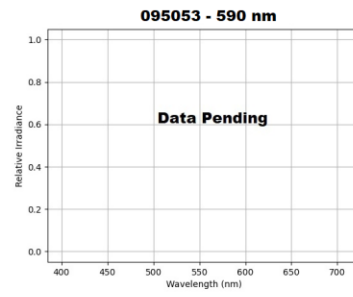
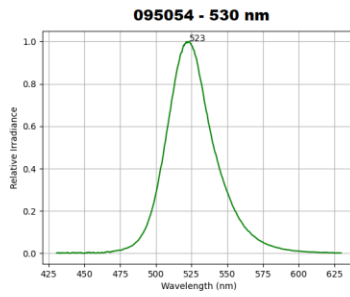
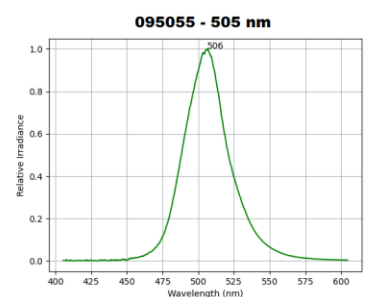
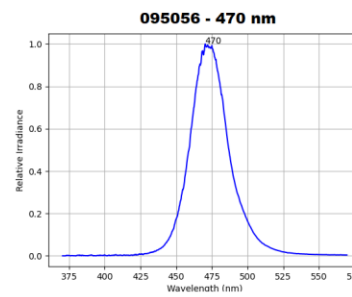
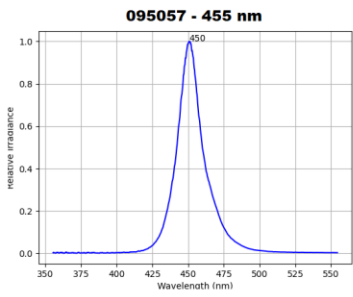
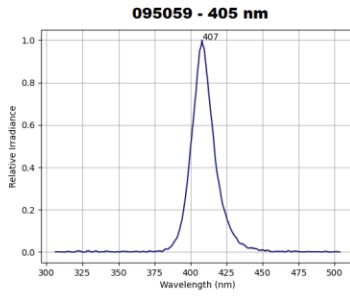
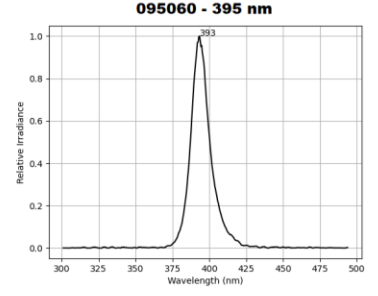
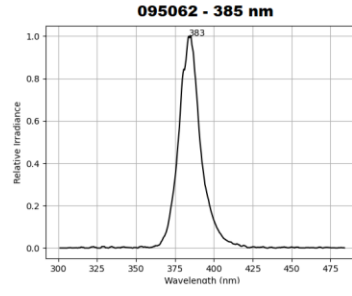
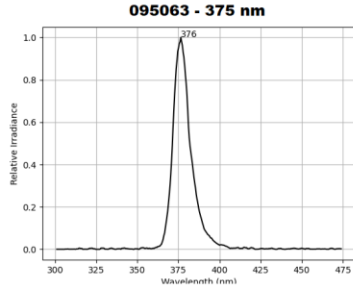
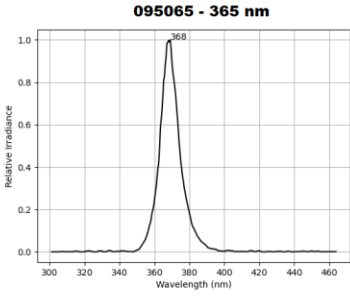
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Group L (SL162)



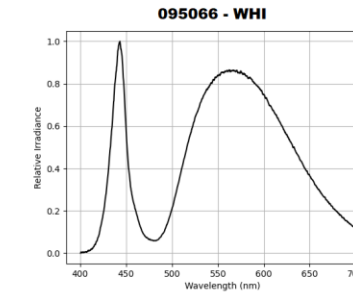
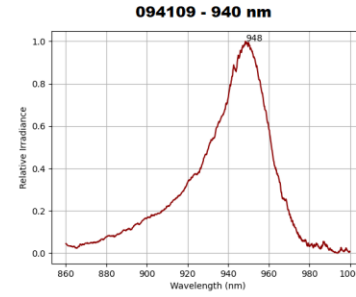
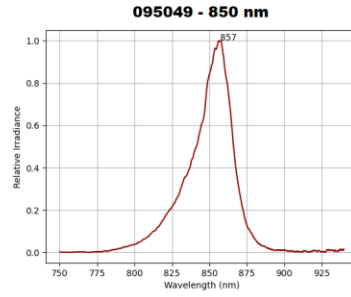
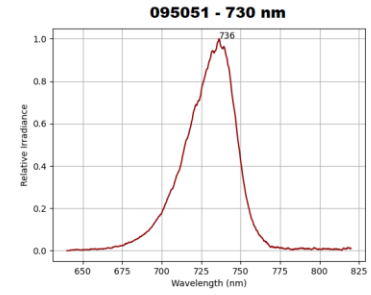
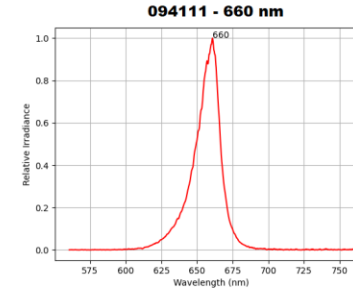
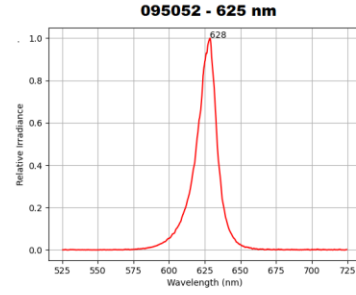
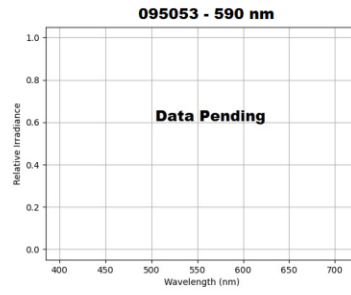
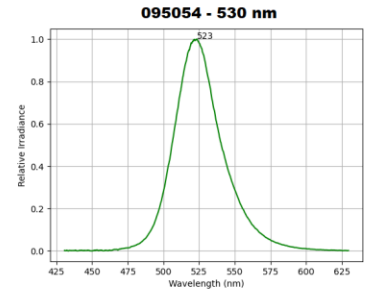
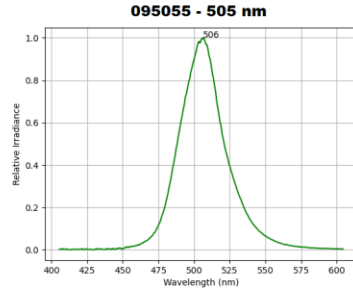
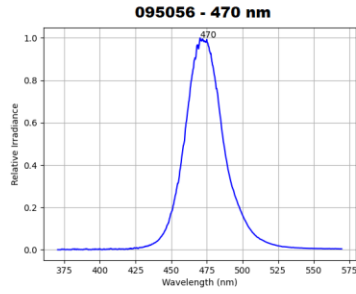
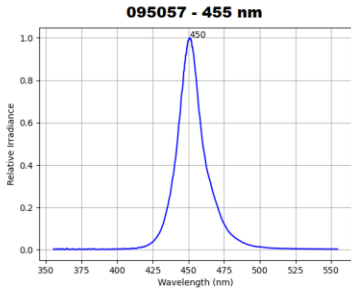
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Group M (SL223, RL113, RL208)



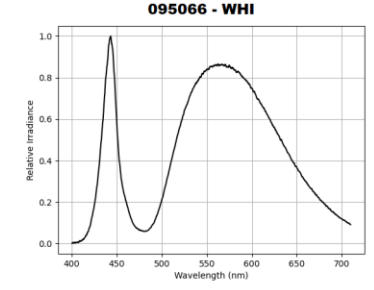
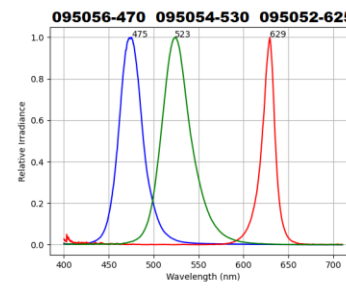
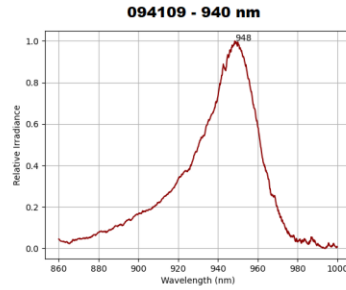
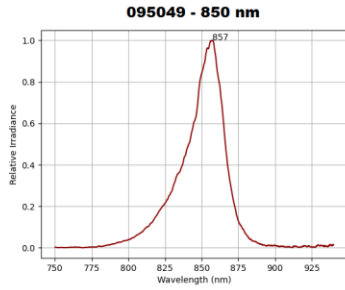
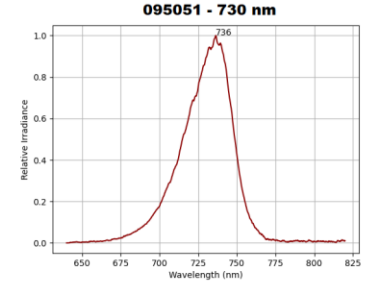
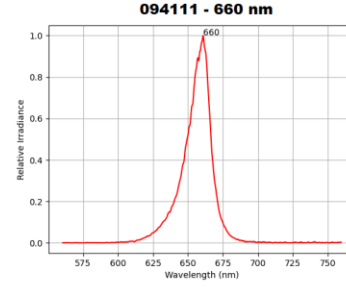
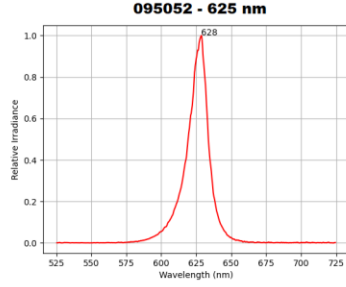
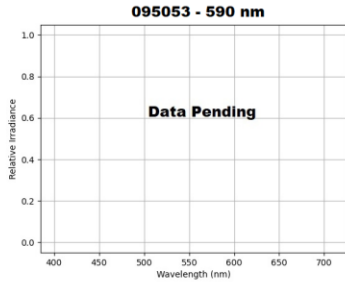
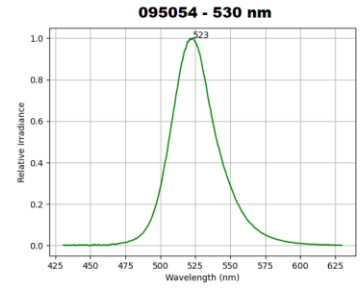
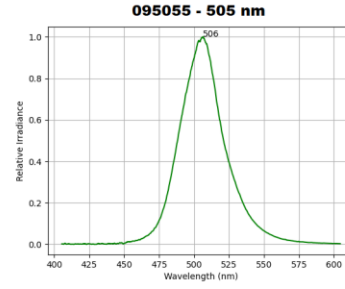
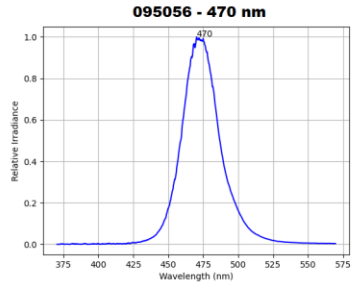
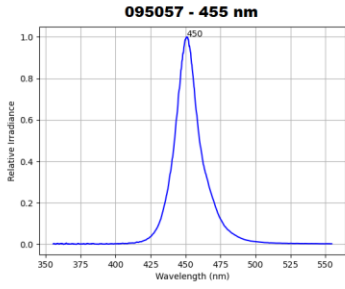
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Group N (DL067, SL246, SL316)



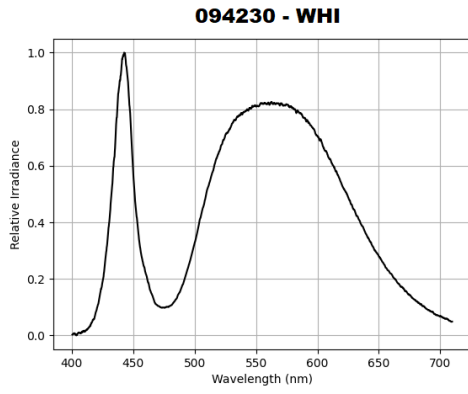
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Group O (DL097, DL194)



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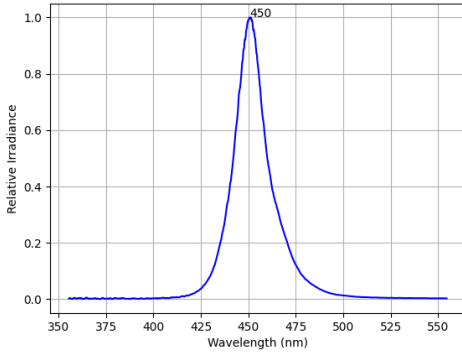
Group P
(LL167)



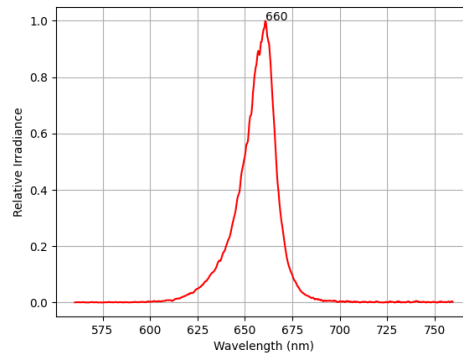
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Group Q (LL232)

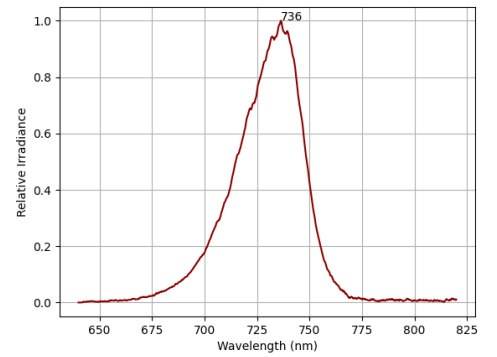
095057 - 455 nm



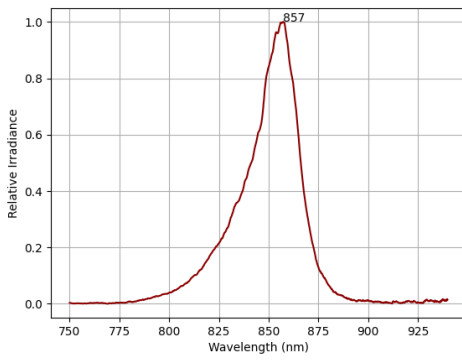
094111 - 660 nm



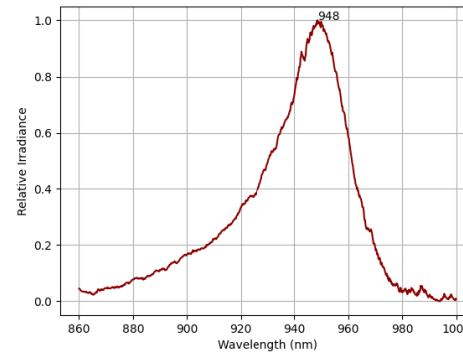
095051 - 730 nm



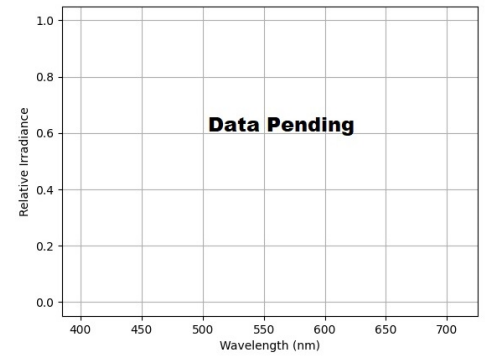
095049 - 850 nm



094109 - 940 nm



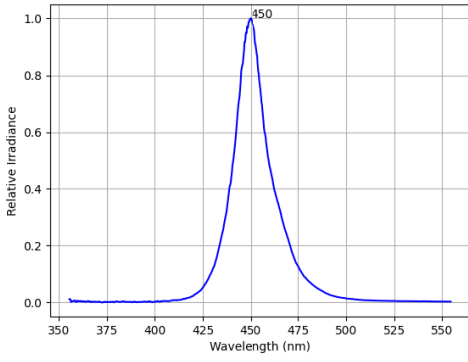
095612 - WHI



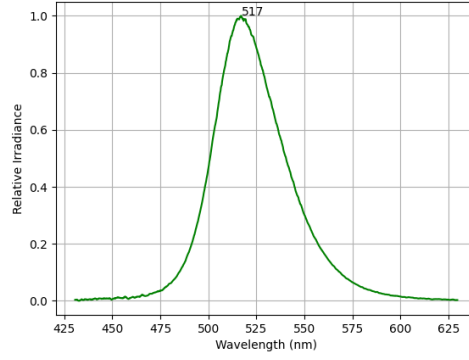
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Group R (LL137)

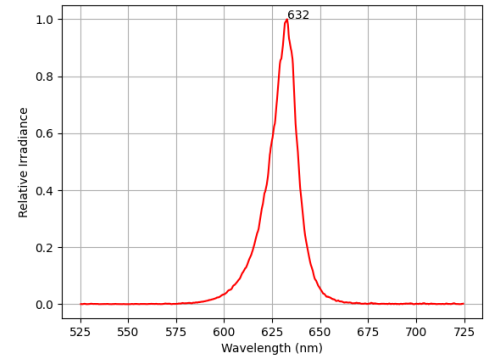
092057 - 455 nm



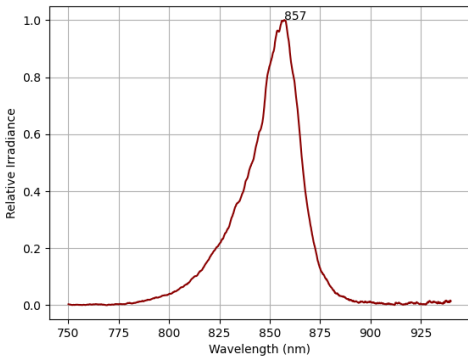
092058 - 530 nm



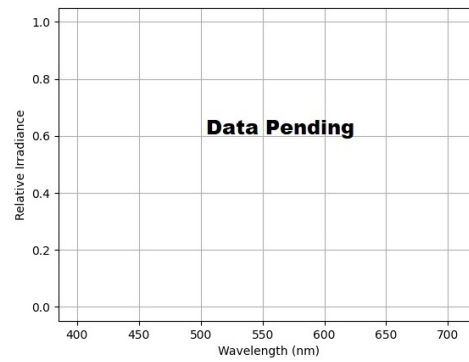
092059 - 625 nm



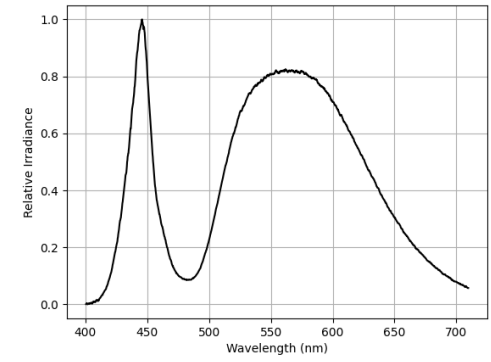
095049 - 850 nm



RGB



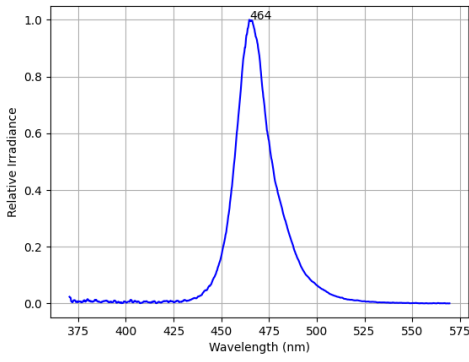
XBDAWT - WHI



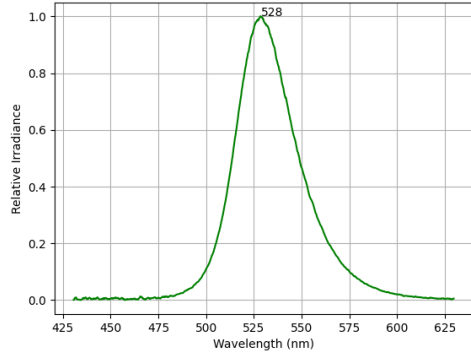
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Group S (SL073)

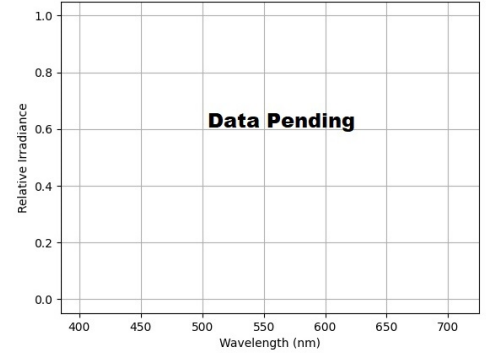
XREBLU-L1-0000 - 470 nm



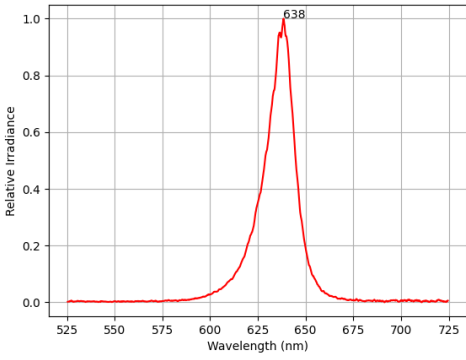
XREGRN-L1-0000 - 530 nm



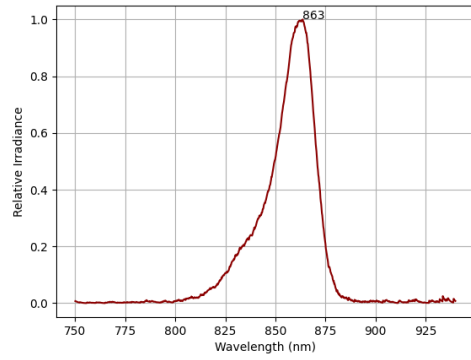
XRCAMB-L1-0000 - 590 nm



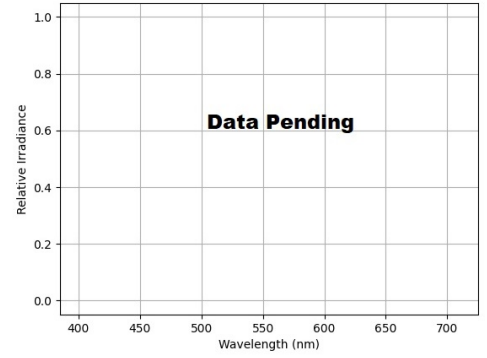
XR7090RD-L1 - 625 nm



SFH4232-Z - 850 nm



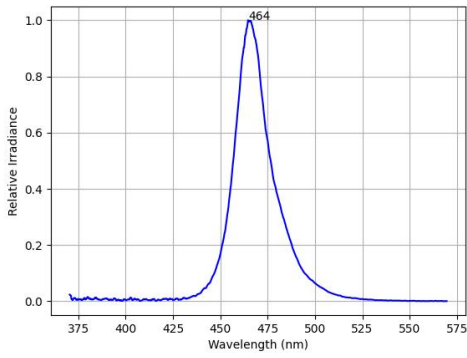
XREWHT-L1-0000 - WHI



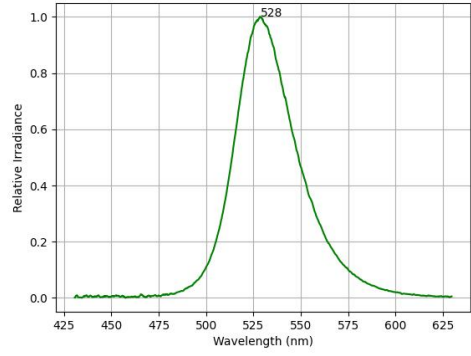
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Group T (SL112)

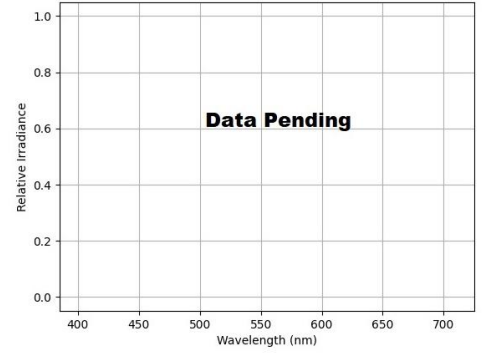
XREBLU-L1-0000 - 470 nm



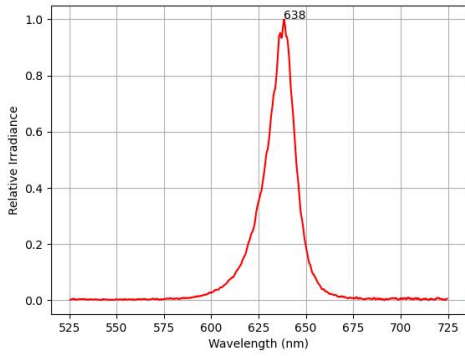
XREGRN-L1-0000 - 530 nm



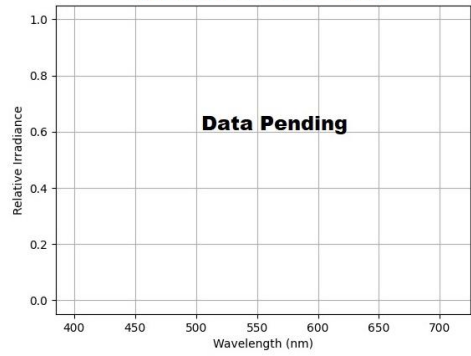
XRCAMB-L1-0000 - 590 nm



XR7090RD-L1 - 625 nm



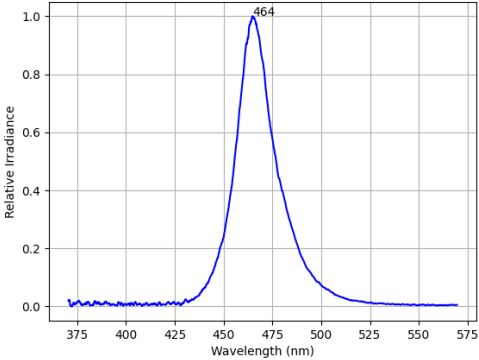
XREWHT-L1-0000 - WHI



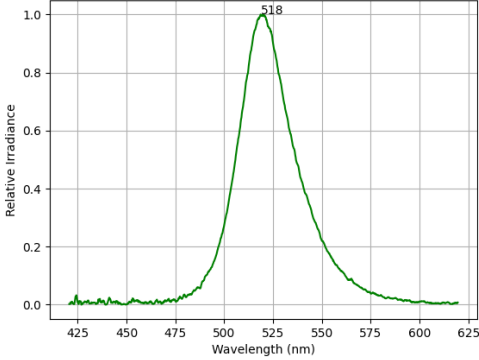
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Group U
(RGB - SL1236, RL36120, RL4260)

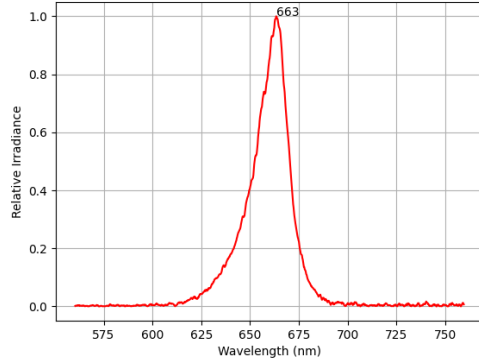
470M1 - 470 nm



520M1 - 520 nm

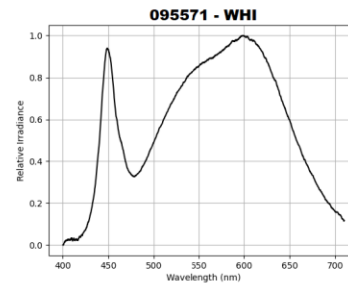
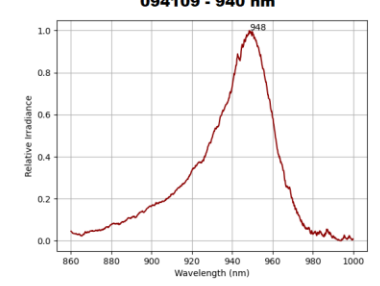
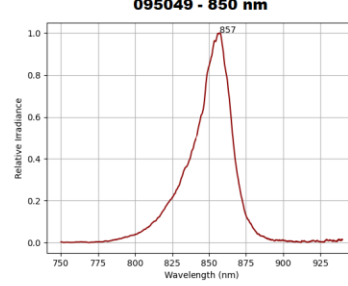
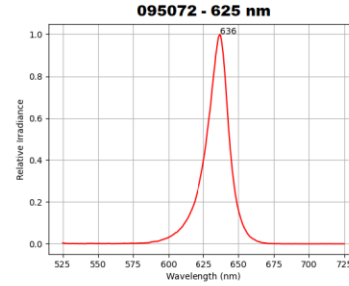
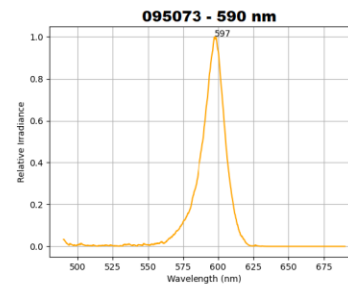
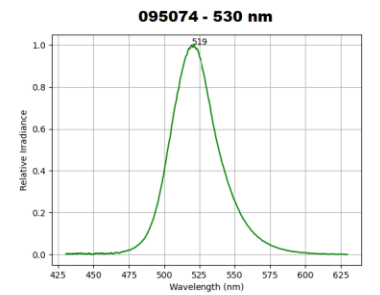
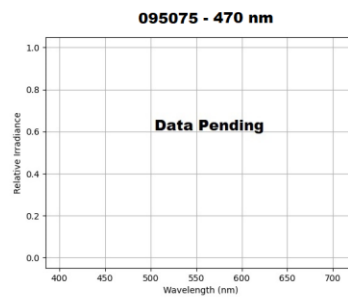
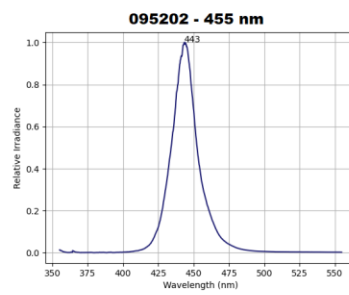
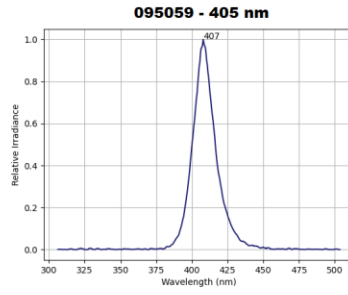
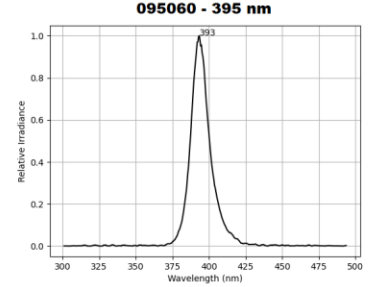
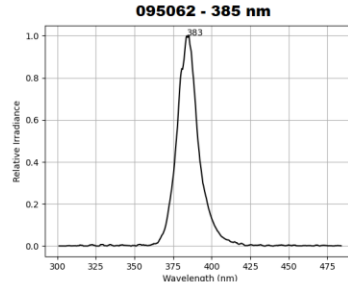
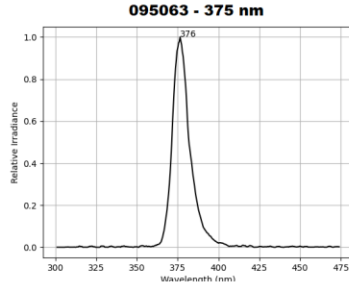
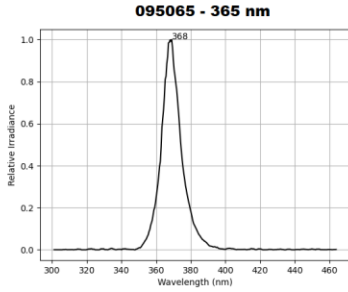


660M1 - 660 nm



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Group V (AL116, AL126)



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No Data Currently Available

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