ADVANCED ILLUMINATION

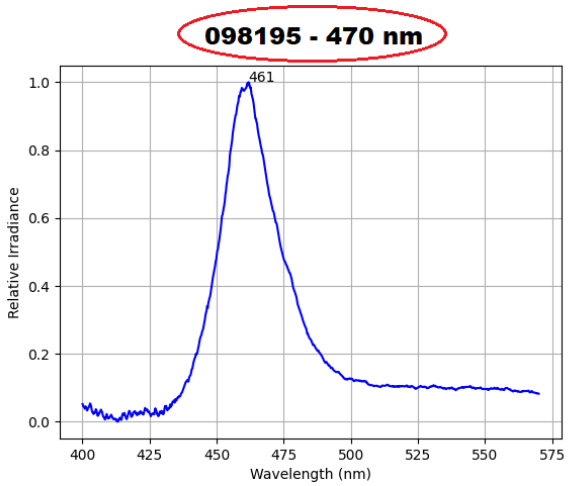
# *PRODUCT SPECTRAL DISTRIBUTION CHARTS*

# 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.



# Table of Contents

## DIFFUSE LIGHTS

4.1 FDXXYY
4.2 FXXXYY
4.3 DL067
4.4 DL151
4.5 DL2230
4.6 DL194
4.7 DL097
4.8 DL071

## LINE LIGHTS

5.1 LL232
5.2 LL230
5.3 LL167
5.4 LL137
5.5 LL163
5.6 LL158

## DARK FIELD LIGHTS

6.1 DF198
6.2 DF196
6.3 DF241
6.4 DF242
6.5 RL5064
6.6 RL3940
6.7 RL3536
6.8 RL2115

## BRIGHT FIELD LIGHTS

7.1 RL208
7.2 DF198
7.3 RL-S052120
7.4 RL113
7.5 RL5064
7.6 RL36120
7.6.1 RGB

## BRIGHT FIELD LIGHTS (cont.)

7.7 RL4260

7.7.1 RGB

7.8 RL1424

7.9 RL2316

7.9.1 RGB

7.10 RL127

7.11 RL121

## SPOT LIGHTS

8.1 SL316

8.2 SL256

8.3 SL246

8.4 SL164

8.5 SL073

8.6 SL244

8.7 SL243

8.8 SL-S100150

8.9 SL-S050075

8.10 AL143

8.11 SL147

8.12 SL162

8.13 SL112

8.14 SL223

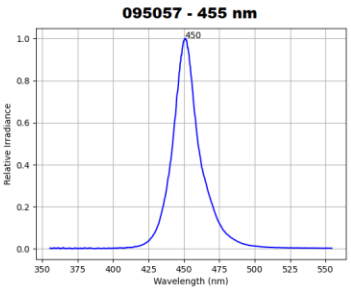
8.15 SL1236

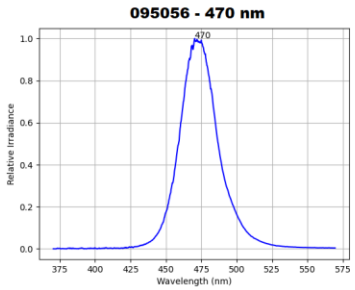
8.16 SL2420

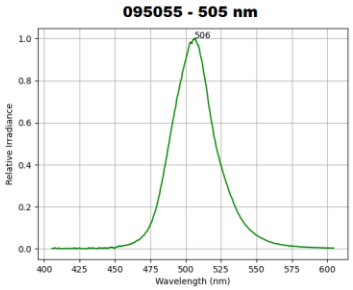
8.17 SL2507

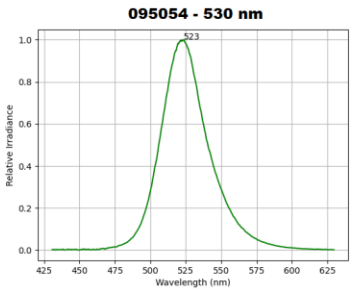
Group A

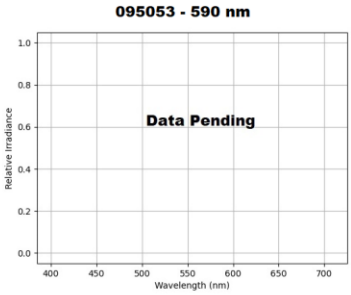
(AL247, AL-S025300, DL071, BL-S100150, BL-S1050075, RL-S052120, SL-S100150, SL-1050075)

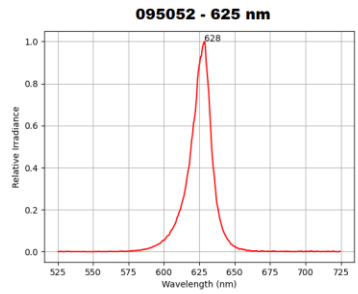


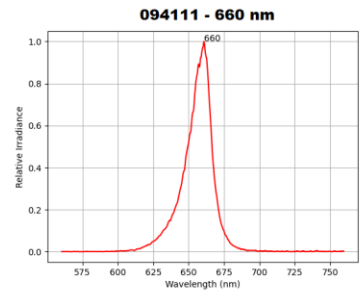



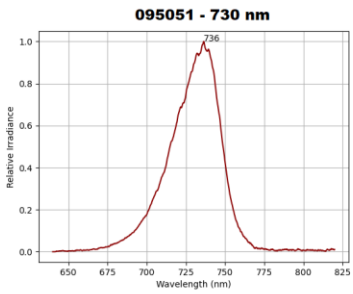



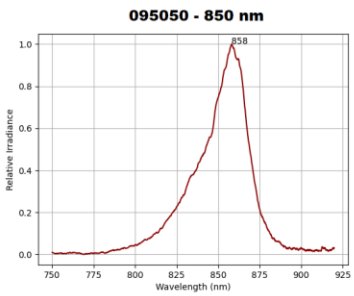



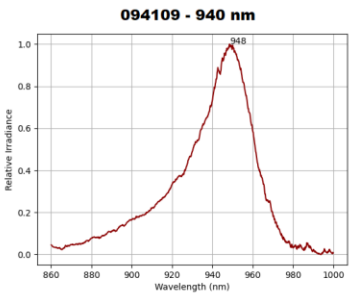



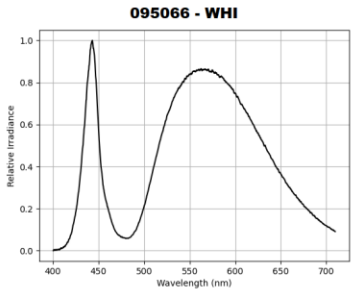



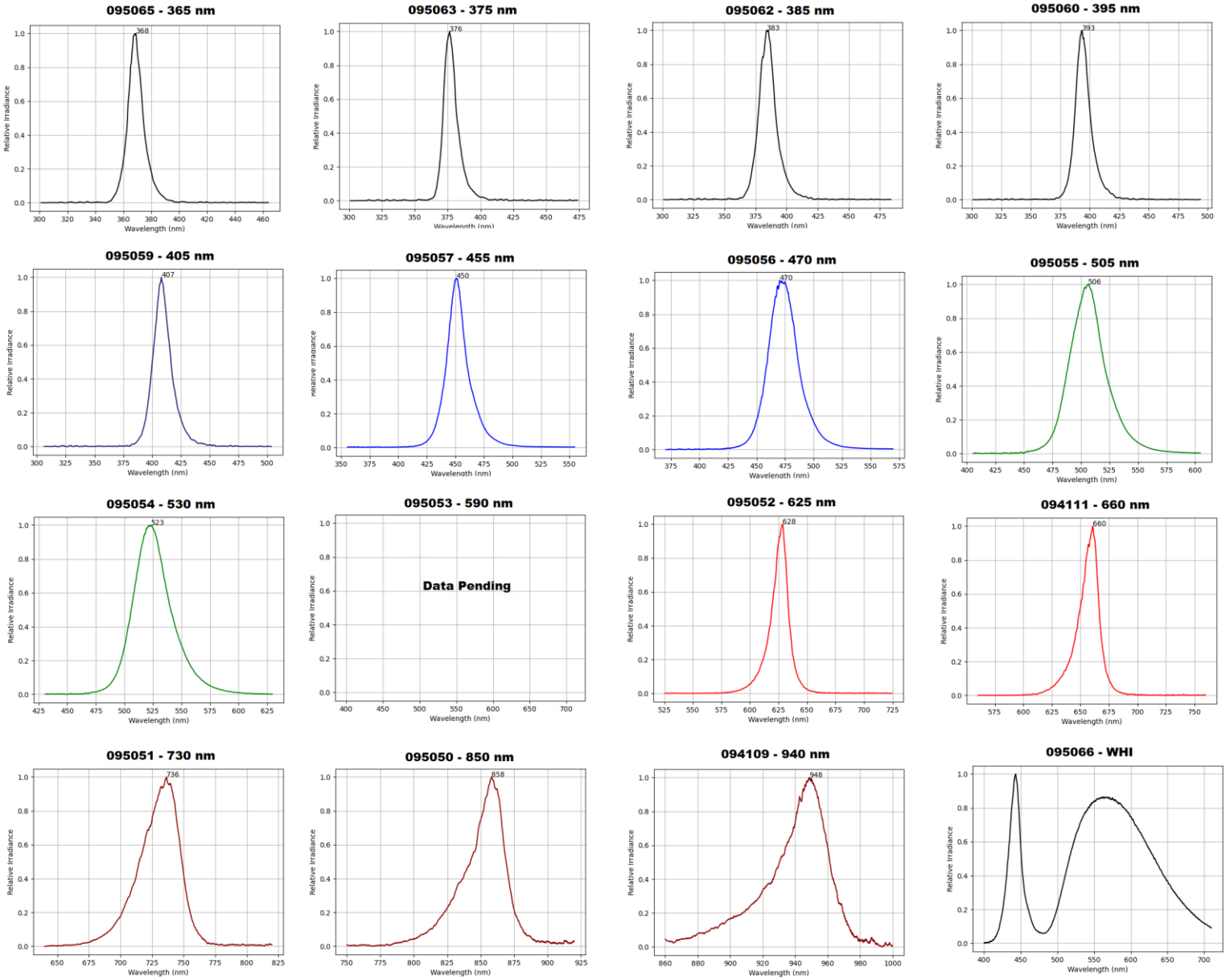




Return to Table of Contents

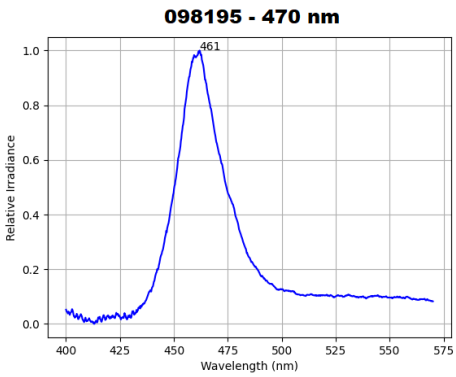
Group B

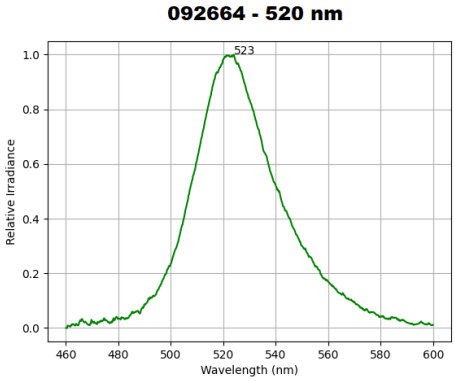
(AL143, AL295, LL174, RL121, RL127, SL147, SL164, SL243, SL244)

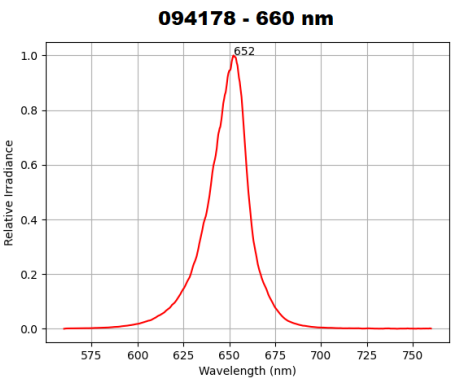


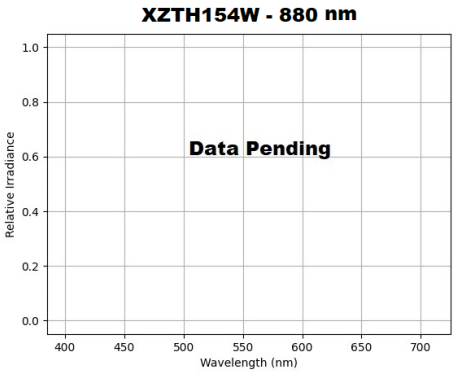

[Return to Table of Contents]

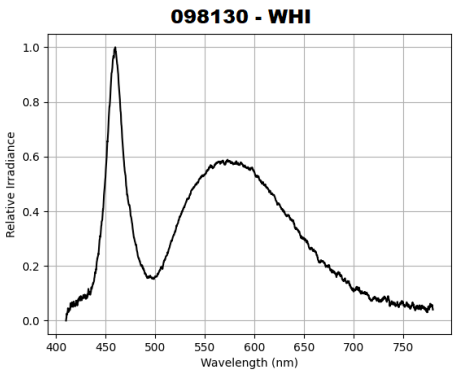
# Group C
# (BL128, BL193, BL245, BLXXYY, CBXXYY, FDXXYY)



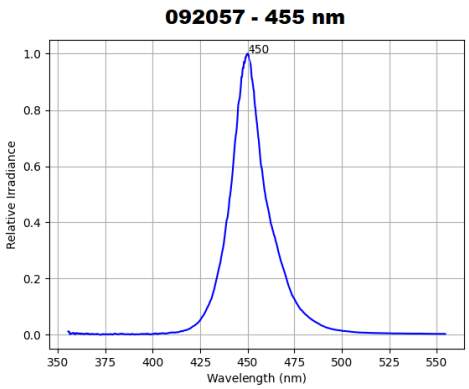



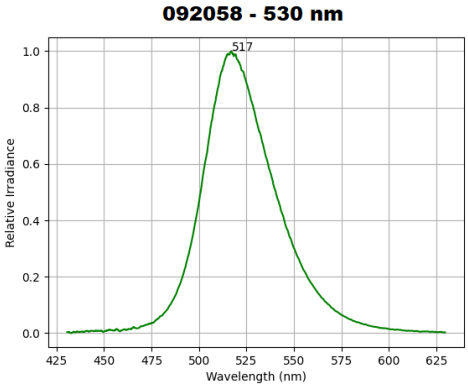



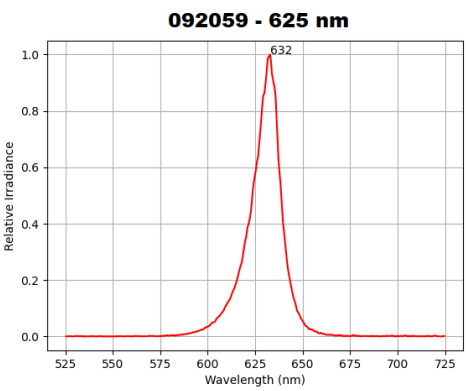

[Return to Table of Contents]

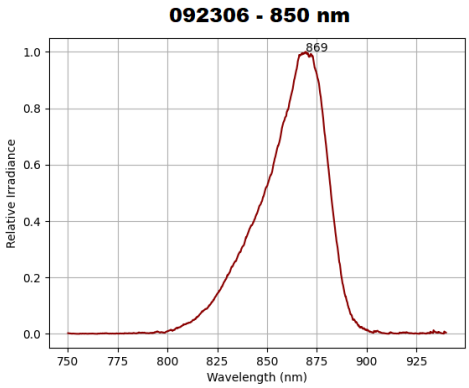
Group D

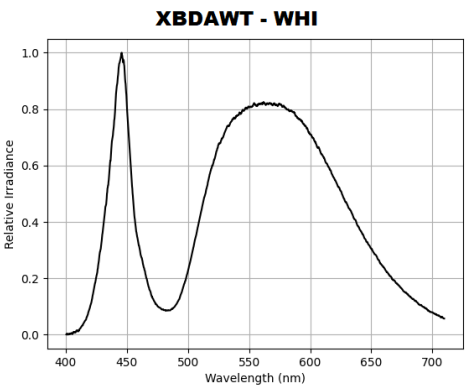
( BTXXXYYY, BXXXYY, CXXXYY, FXXXYY)



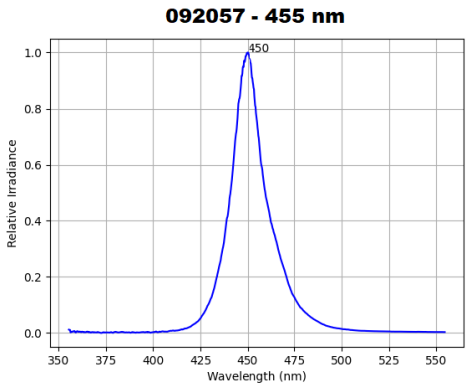



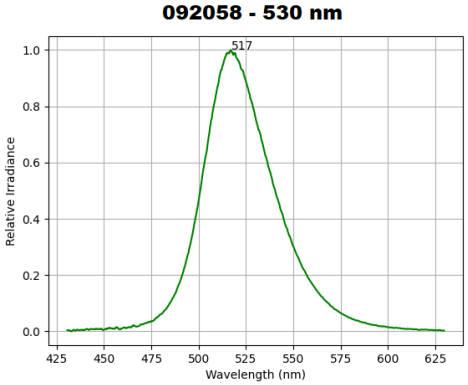



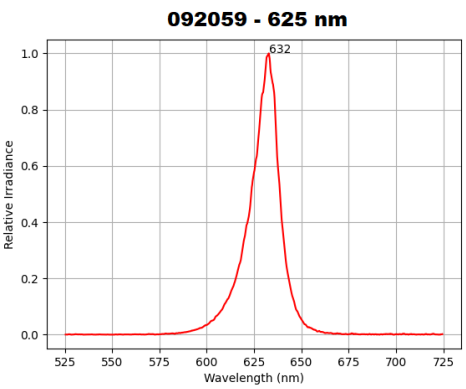



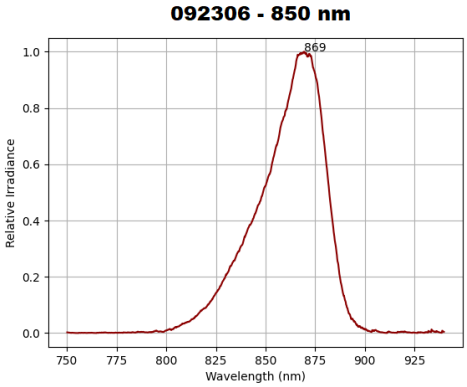

Return to Table of Contents

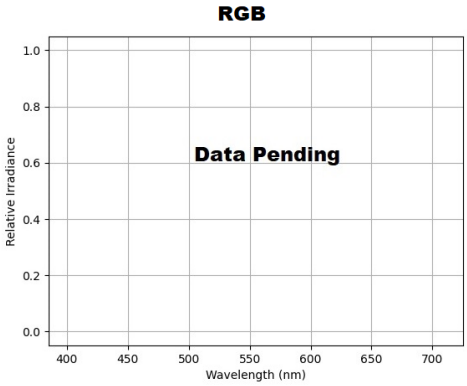
Group E
(BL138)

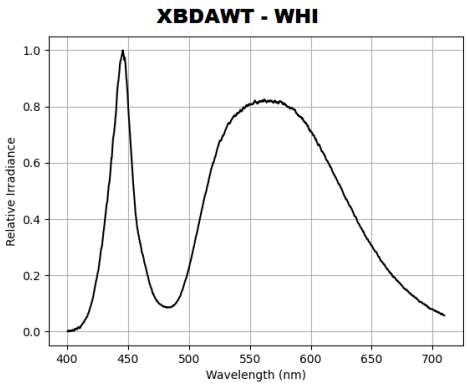


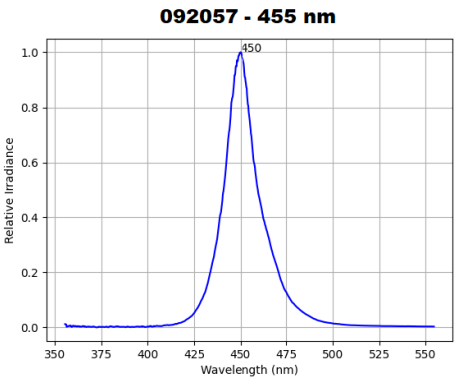



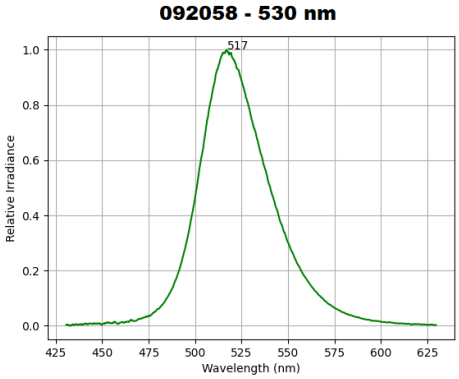



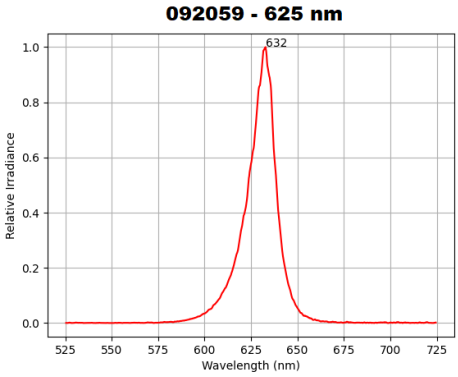



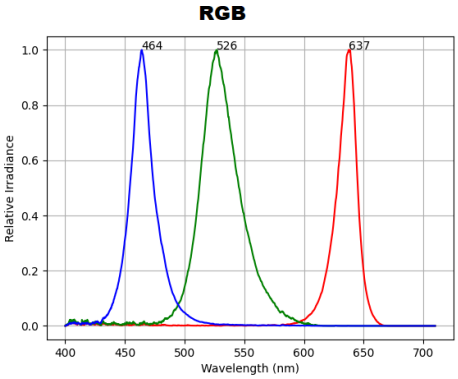

Return to Table of Contents

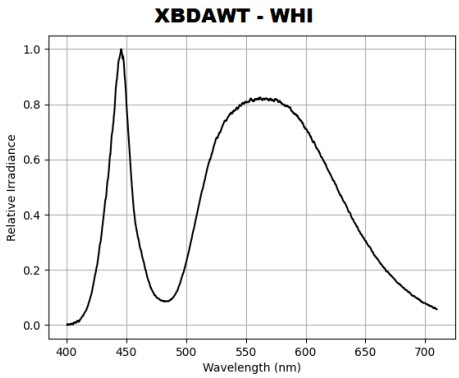
Group F
(DF196, DF198)



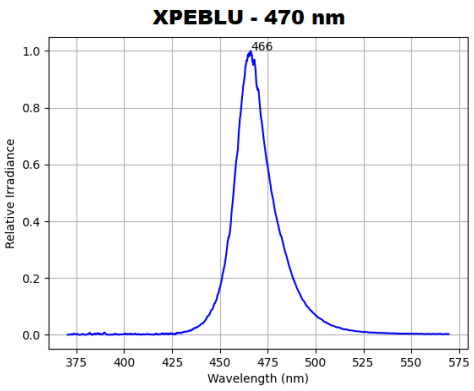



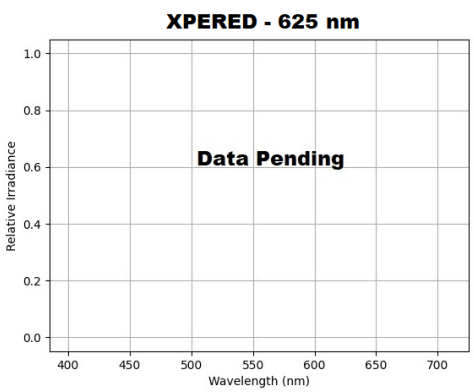



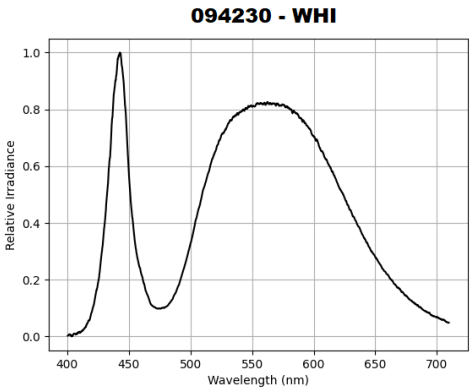




Return to Table of Contents

Group G
(BL168)

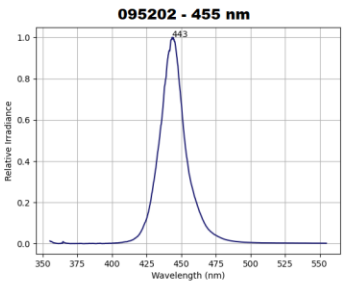


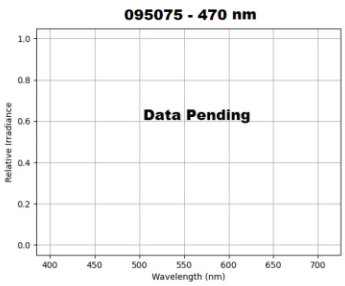



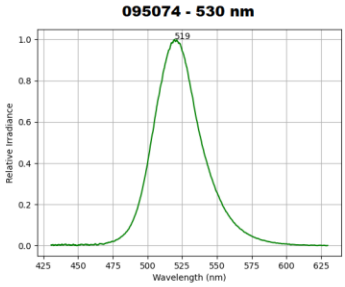



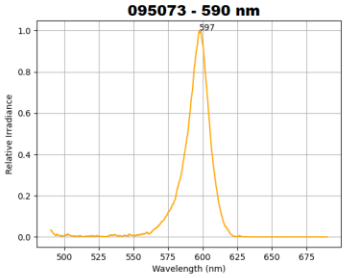

Return to Table of Contents

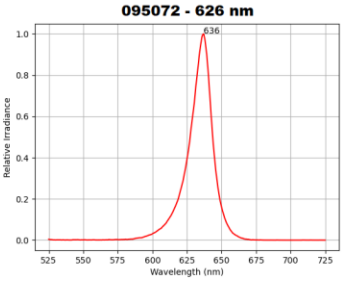
Group H
(BL313, DL151)

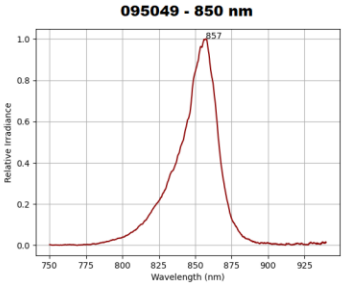


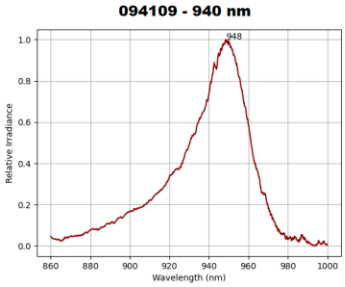



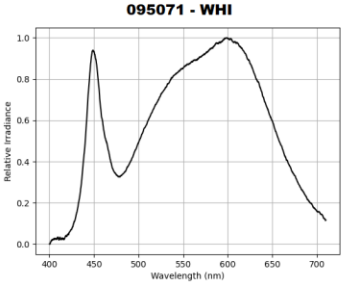



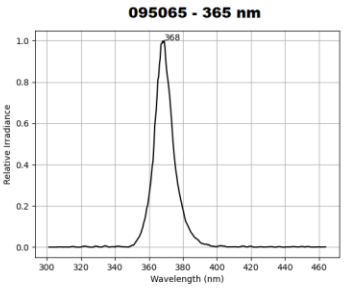



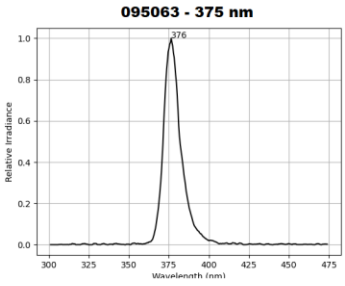



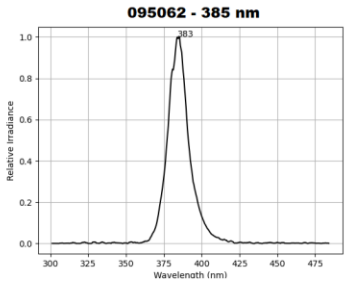



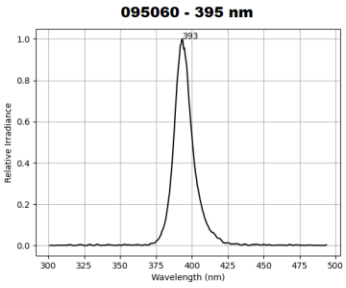

Return to Table of Contents

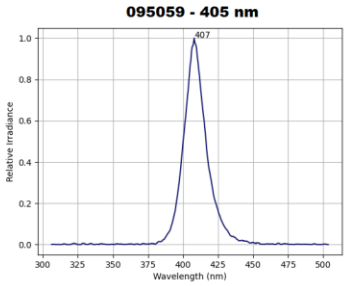
# Group I
# (DL225, SL223)

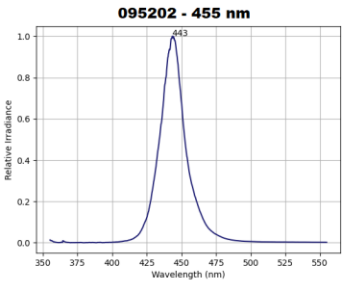


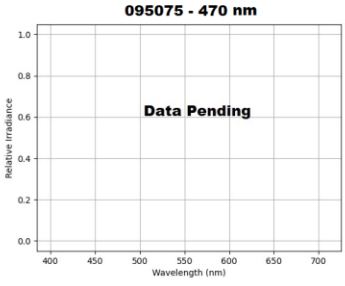



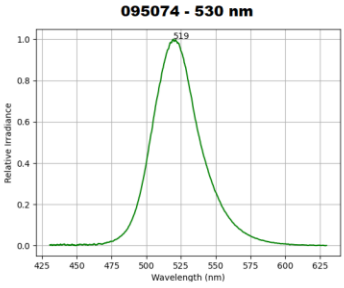



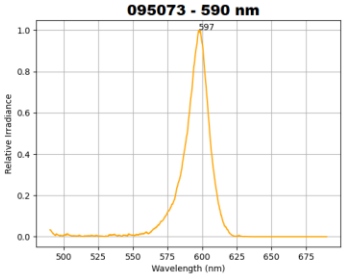



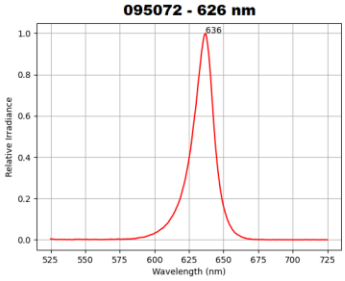



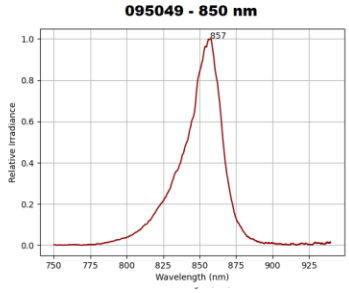



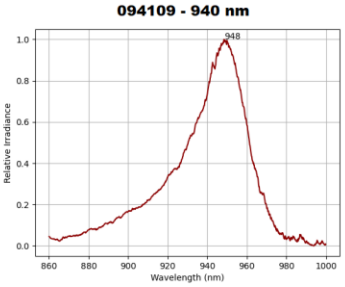



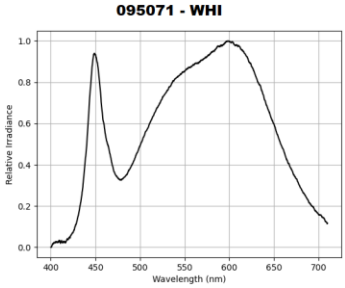



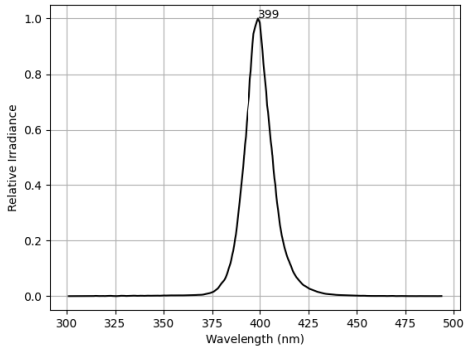




[Return to Table of Contents]

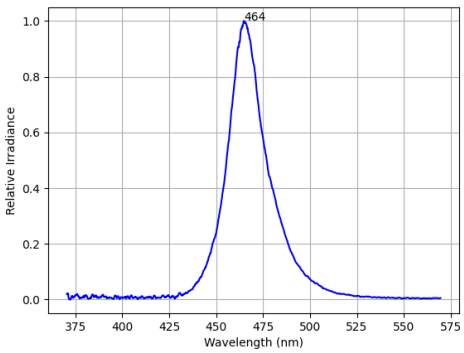
Group J

(AL150, DL2230, DF241, DF242, RL1424, RL2316, RL3536, RL36120, RL3940, RL4260, RL5064, SL1236, SL2420, SL2507)

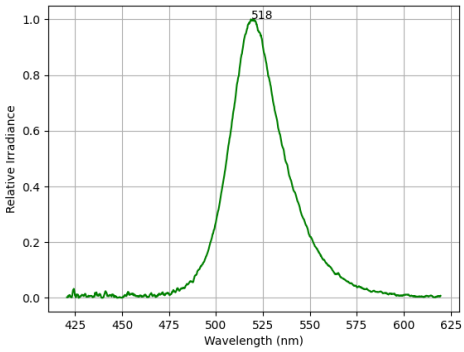
**395M1 - 395 nm**



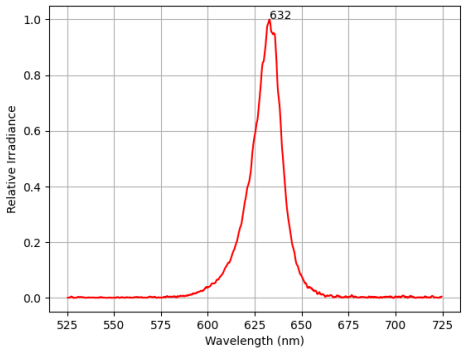

**470M1 - 470 nm**



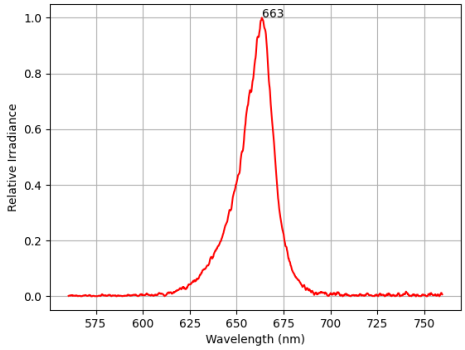

**520M1 - 520 nm**



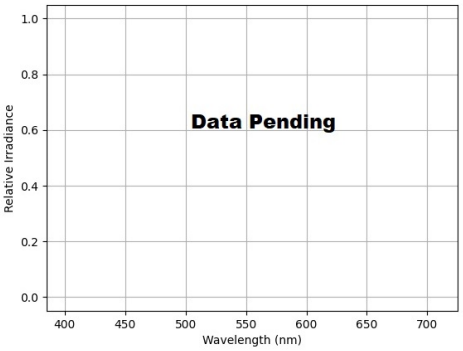

**091915 - 625 nm**



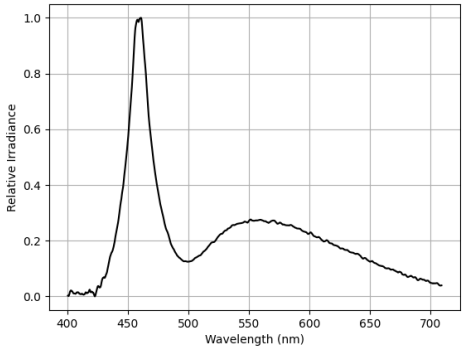

**660M1 - 660 nm**




**880M1 - 880 nm**

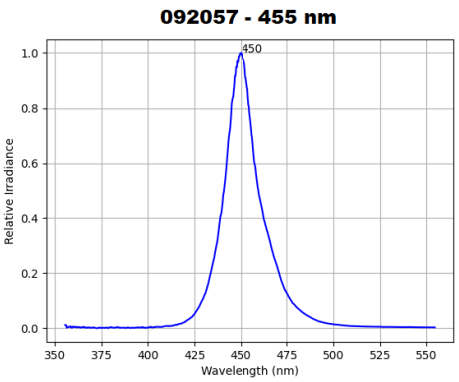


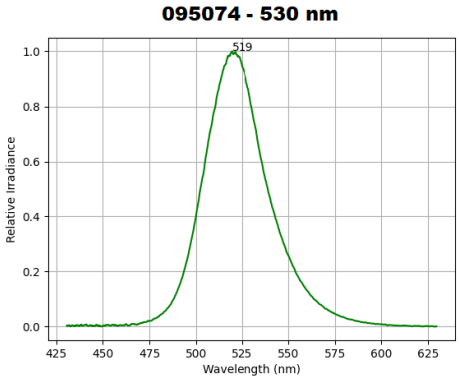

**WHIM1 - WHI**

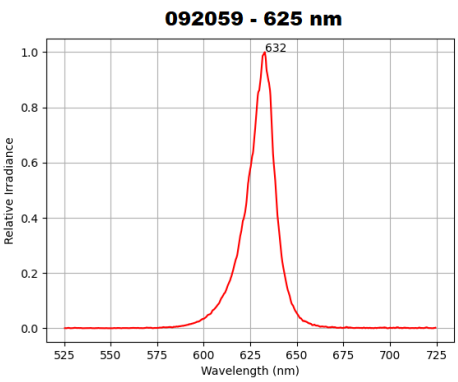


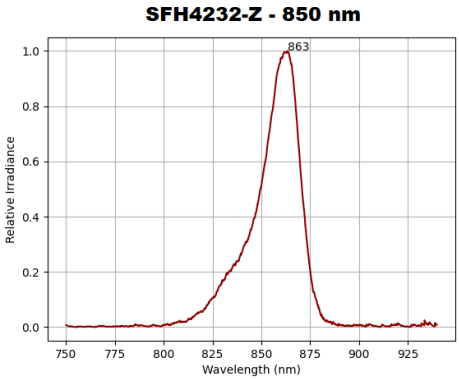

Return to Table of Contents

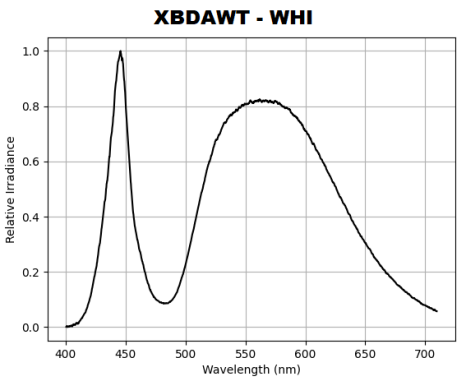
Group K
(DL110)



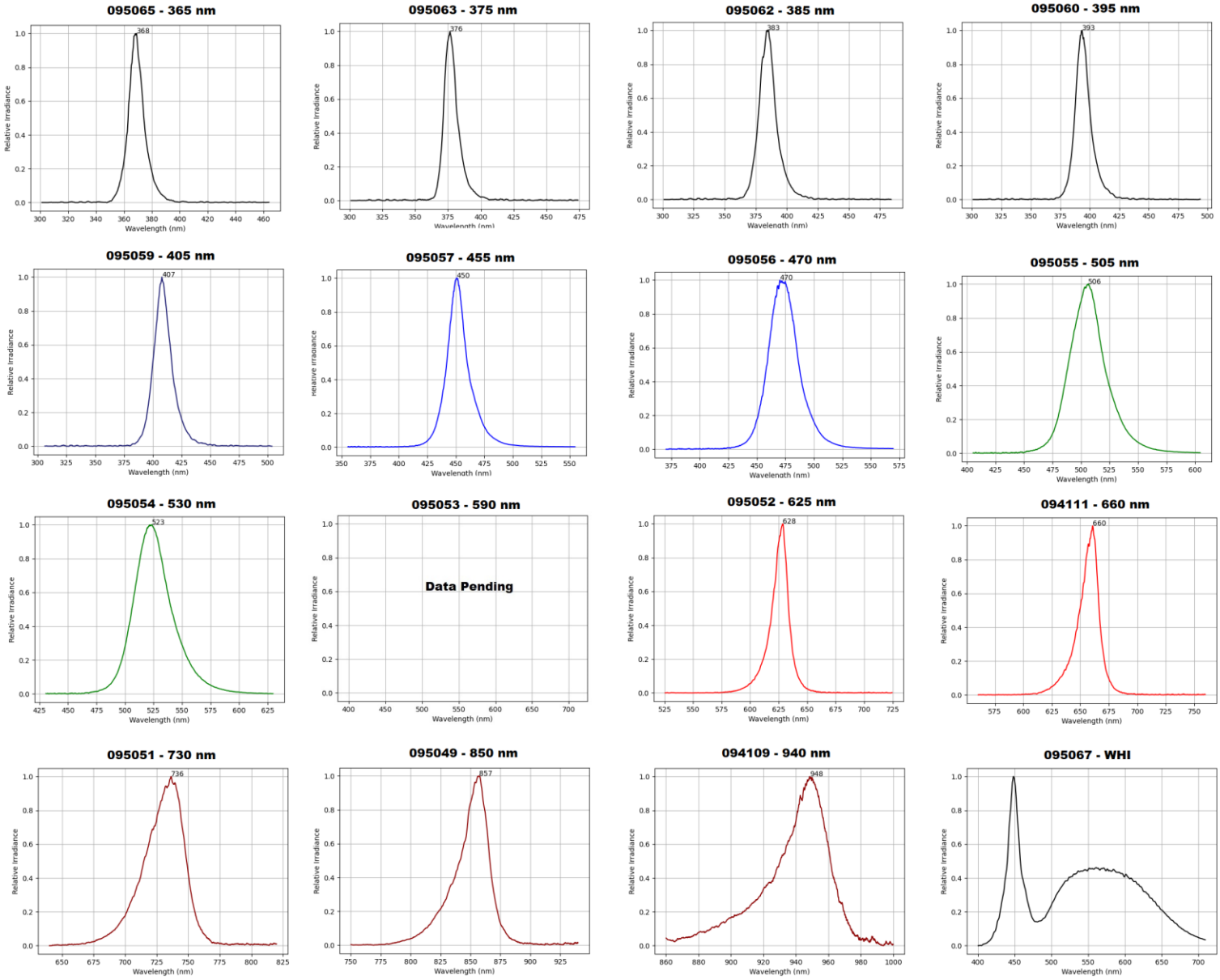



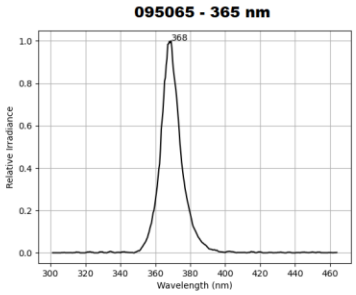

Return to Table of Contents

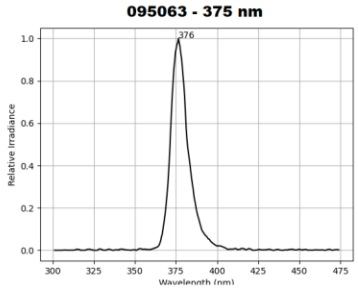
Group L
(SL162)

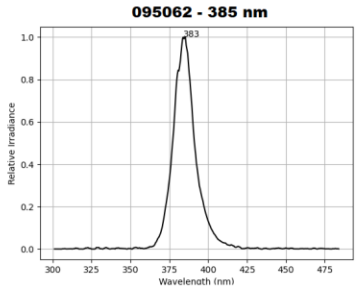


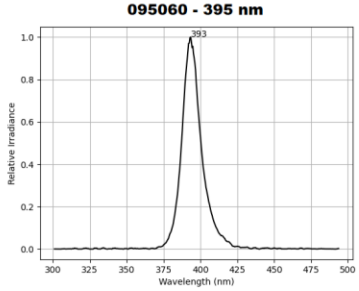

[Return to Table of Contents](#)

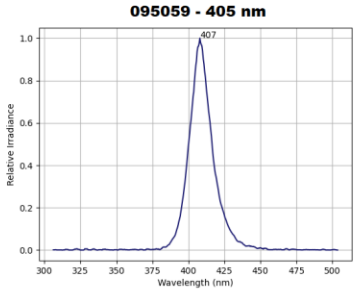
# Group M
# (SL223, RL113, RL208)

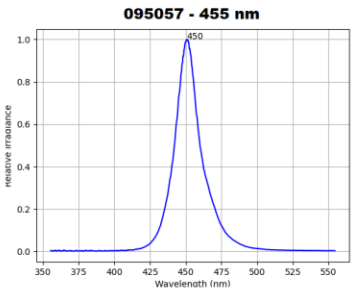


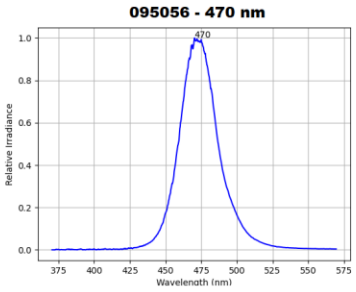



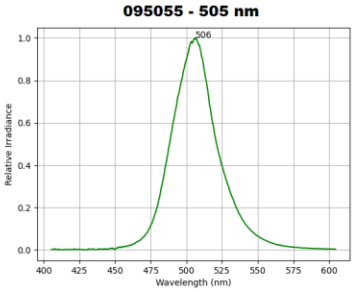



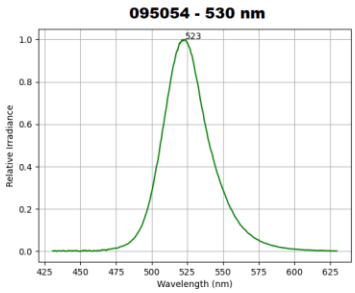



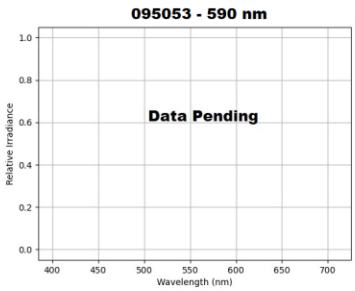



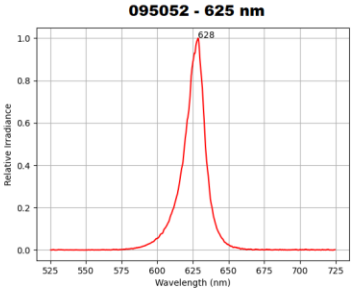



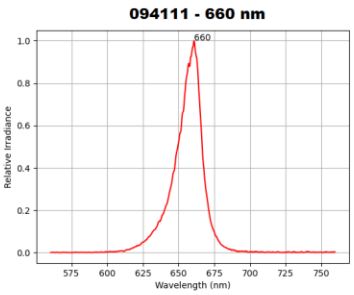



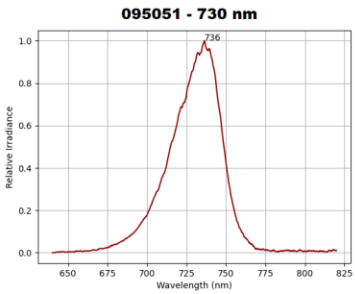



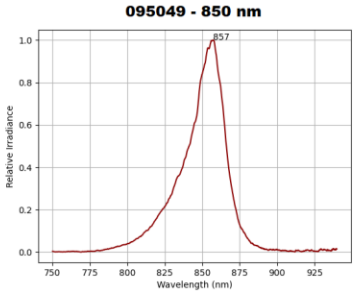



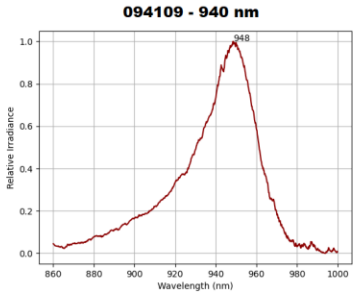



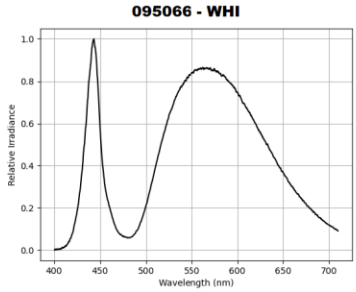



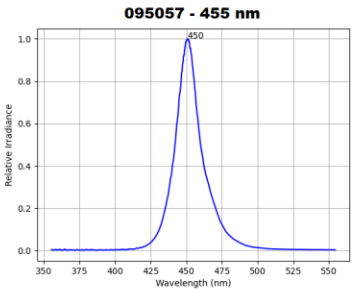



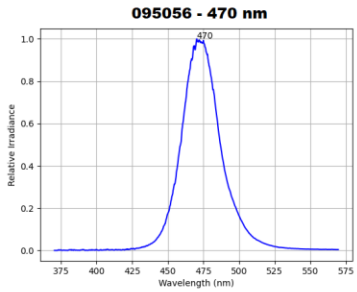



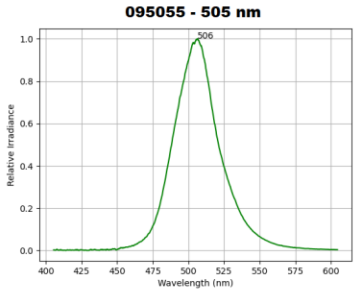



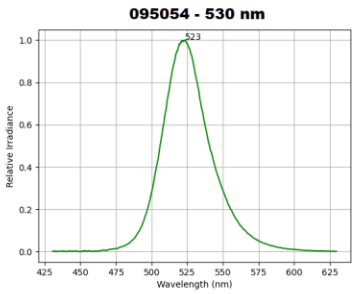

[Return to Table of Contents]

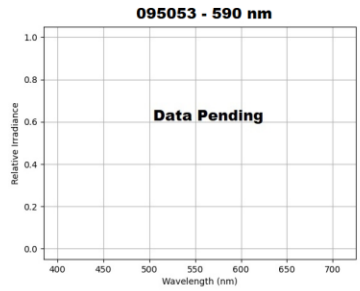
# Group N
# (DL067, SL246, SL316)

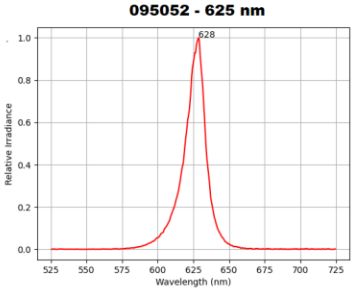


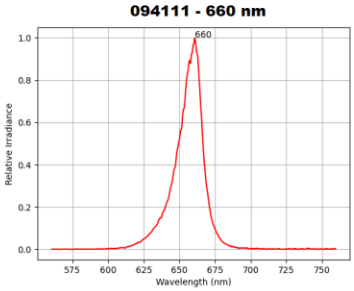



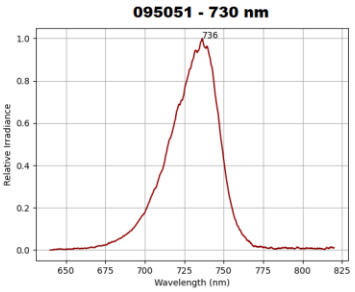



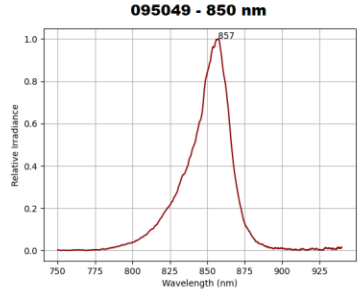



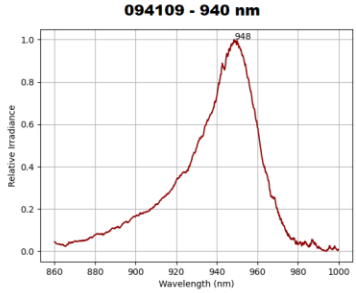



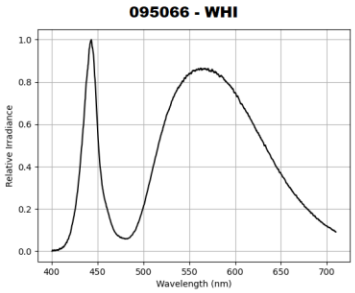



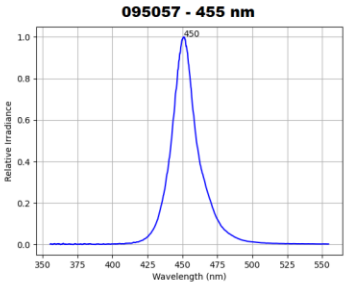



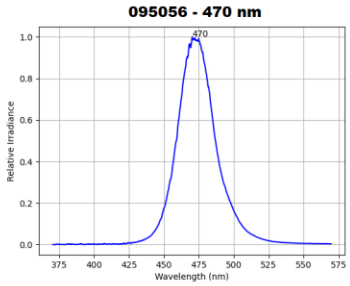



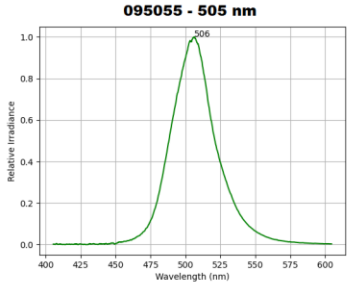



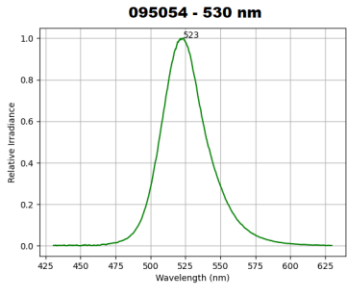

[Return to Table of Contents]

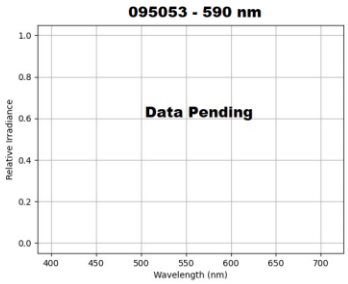
# Group O
# (DL097, DL194)

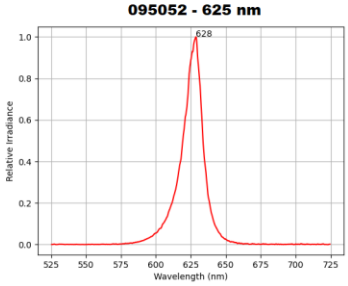


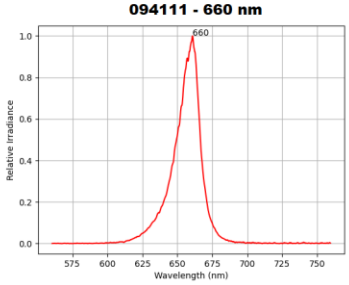



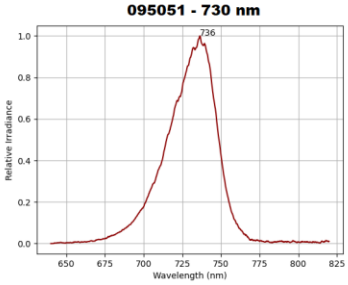



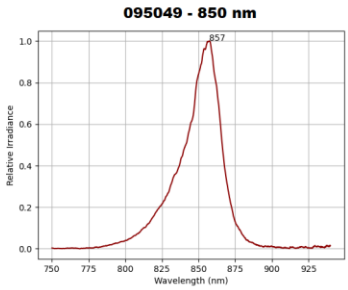



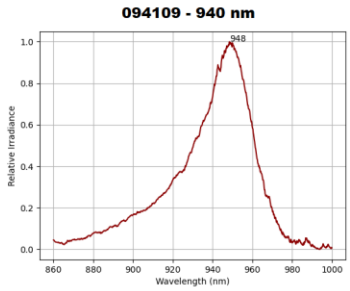



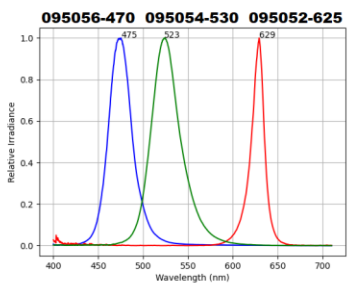



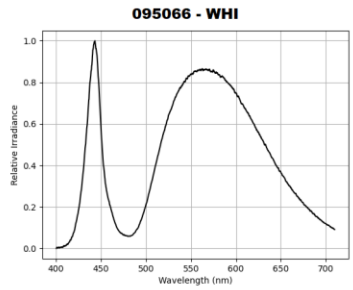



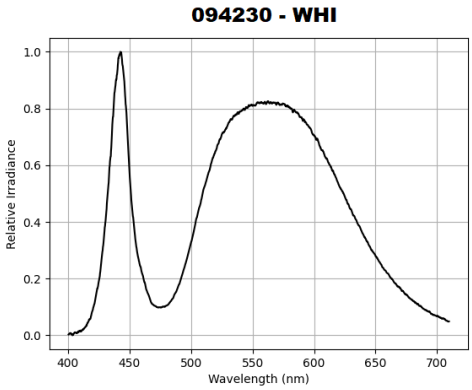



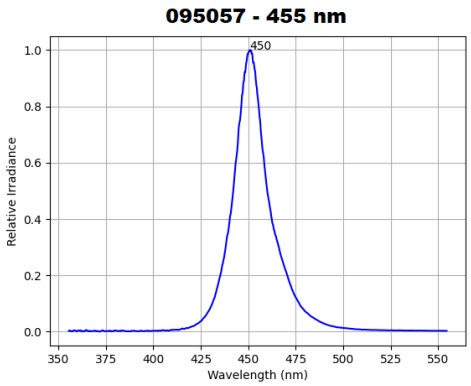

[Return to Table of Contents]

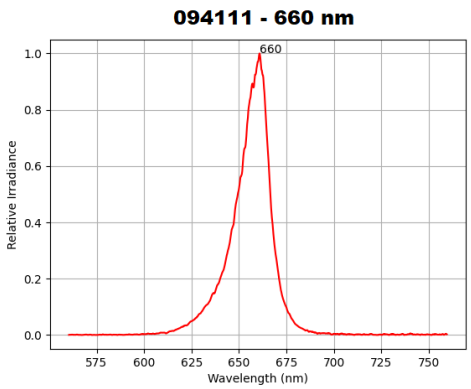
Group P
(LL167)

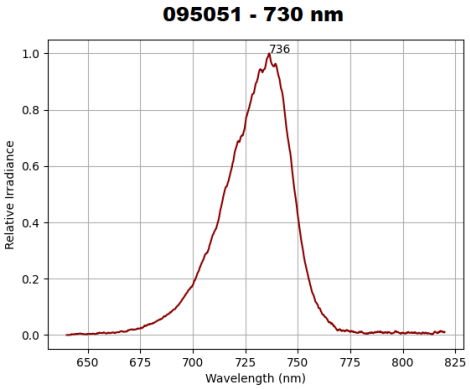


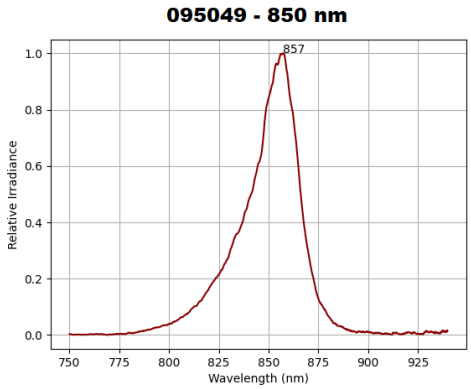

Return to Table of Contents

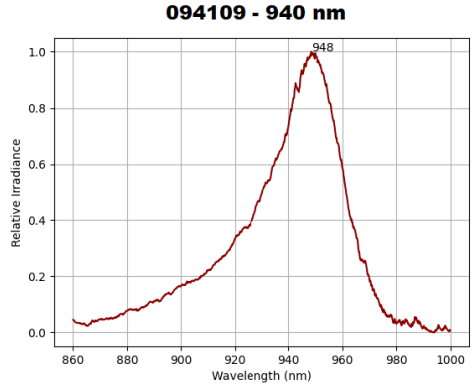
Group Q
(LL232)

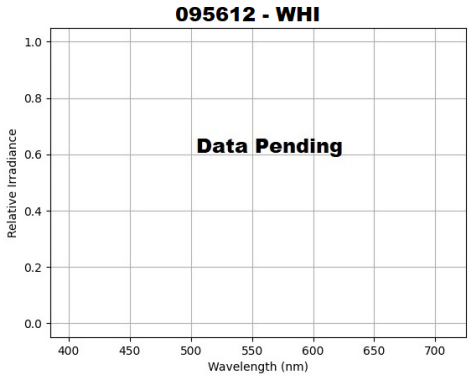


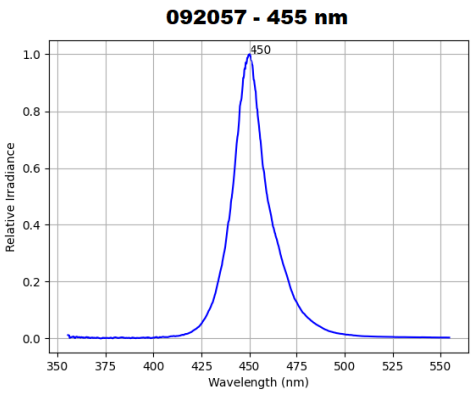



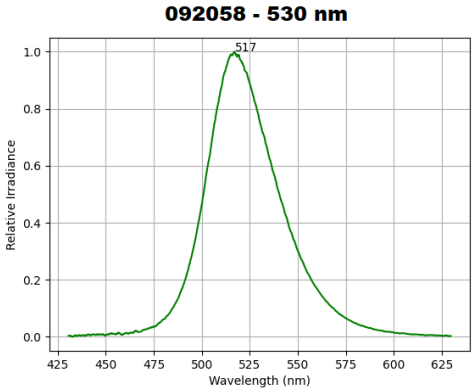



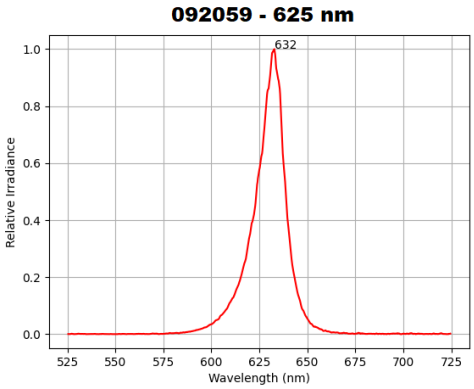



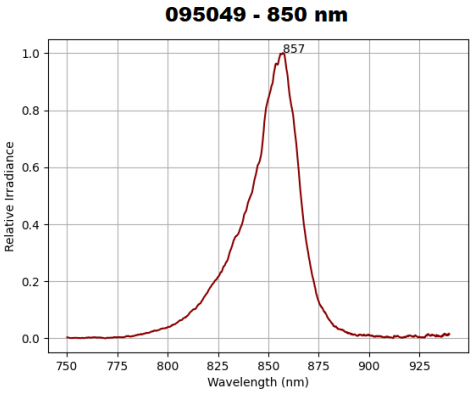

Return to Table of Contents

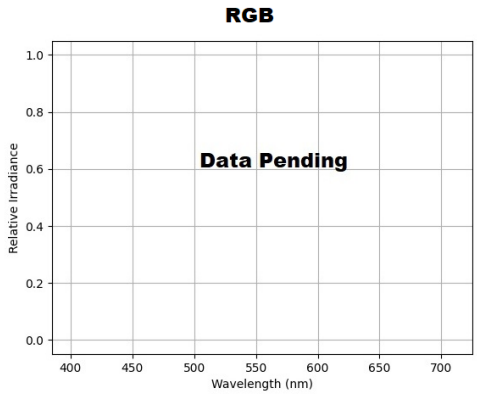
Group R
(LL137)

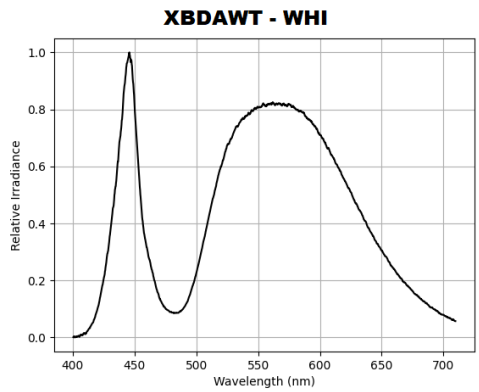


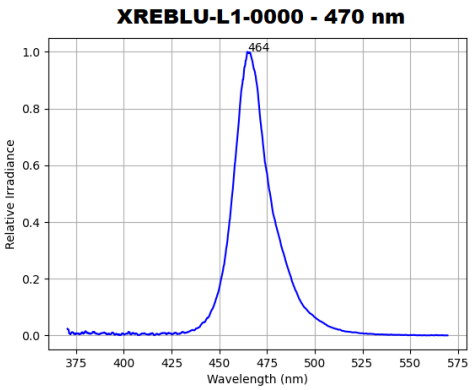



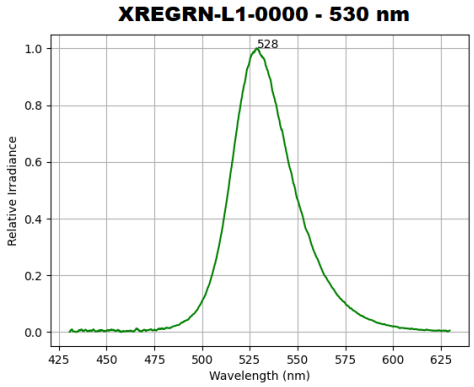



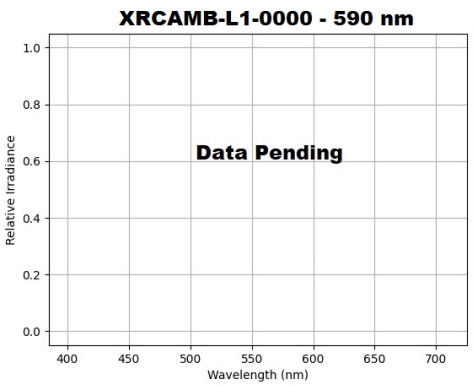



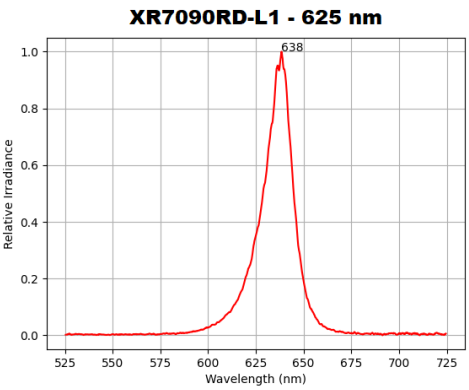

Return to Table of Contents

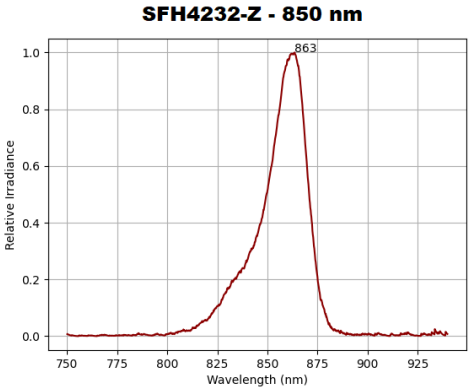
Group S
(SL073)

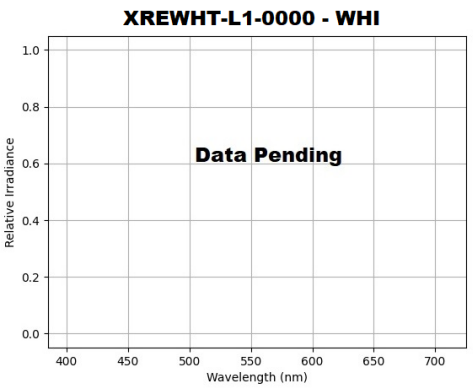


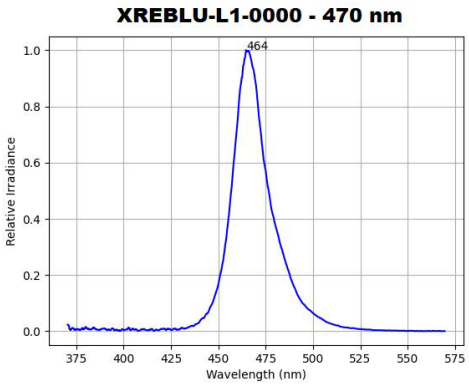



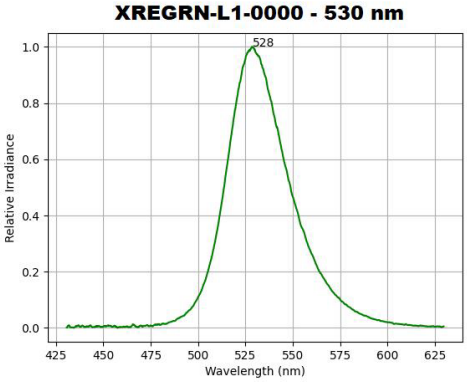



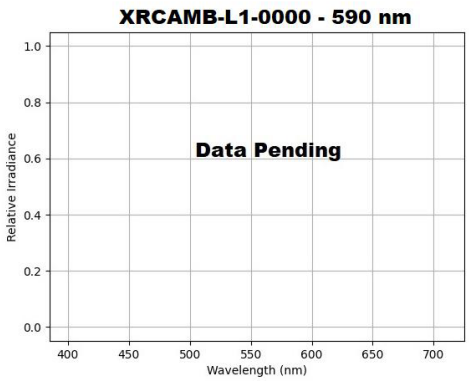



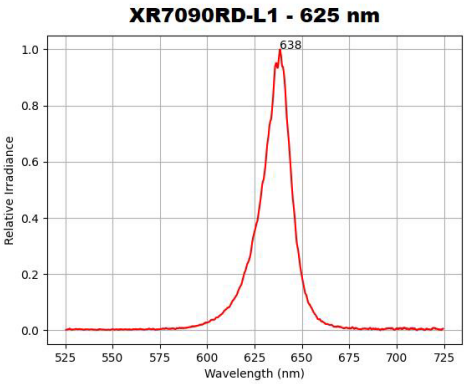

Return to Table of Contents

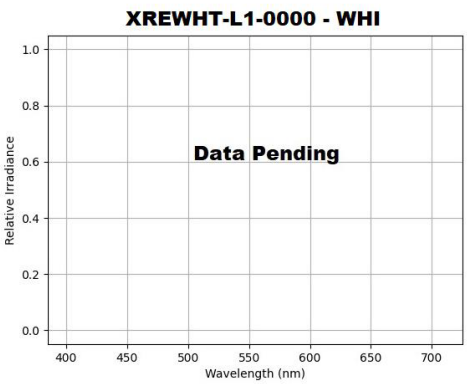
Group T
(SL112)



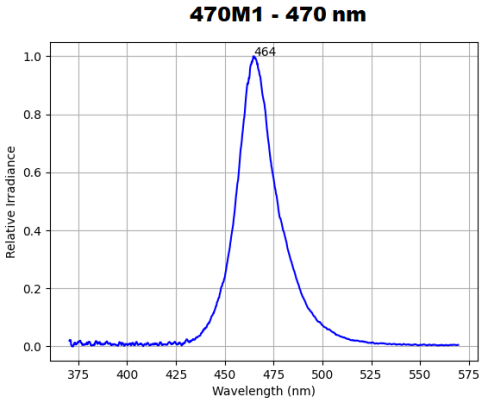



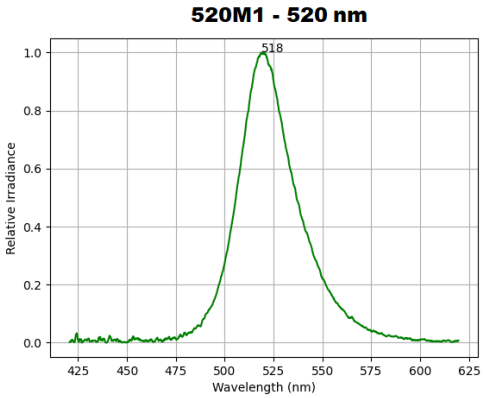



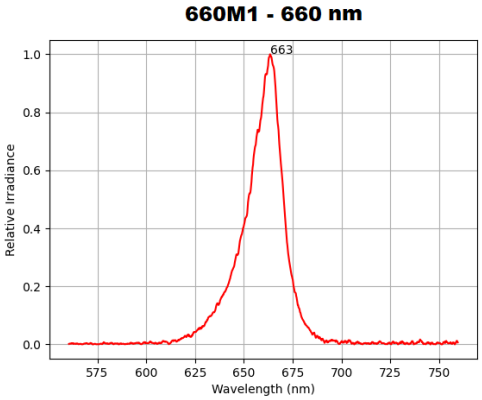




Return to Table of Contents

Group U
(RGB - SL1236, RL36120, RL4260)

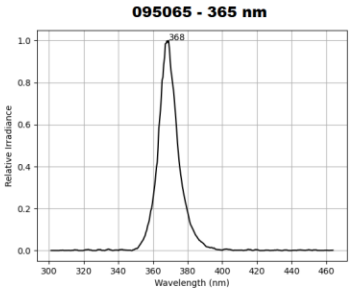


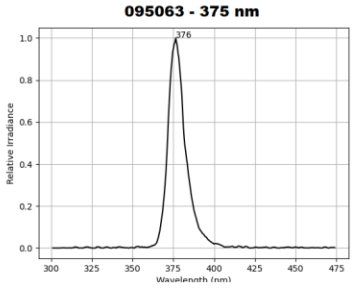



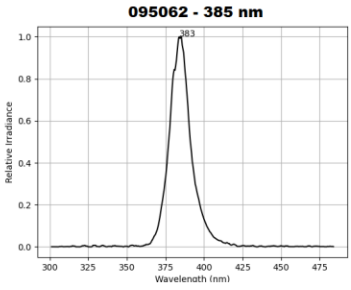



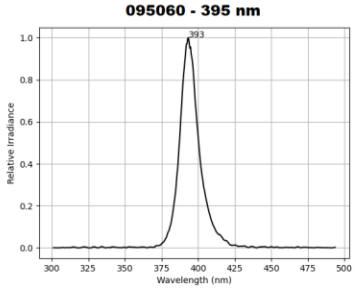

Return to Table of Contents

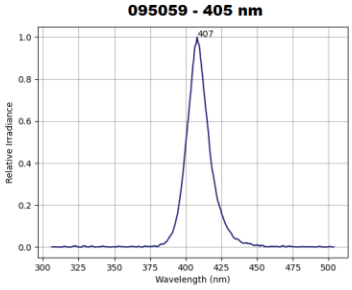
# Group V
# (AL116, AL126)

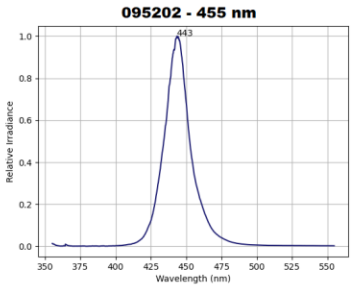


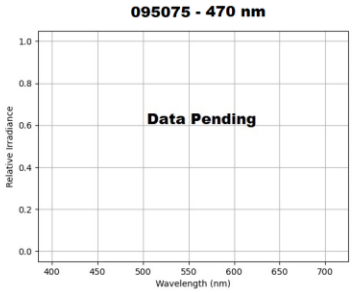



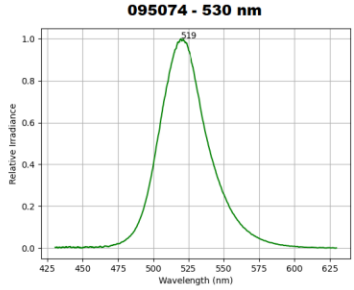



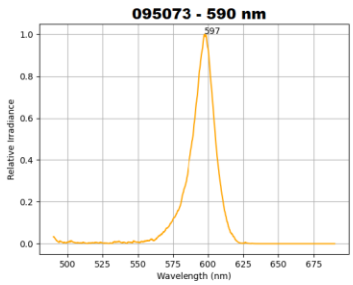



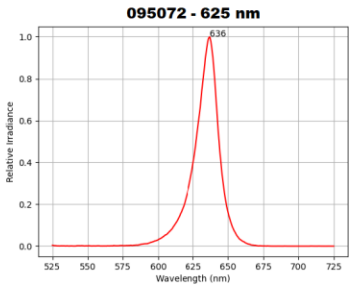



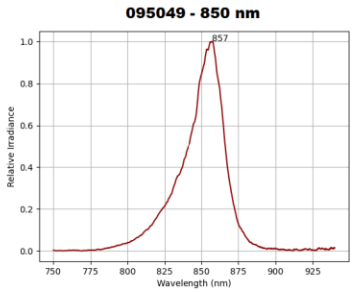



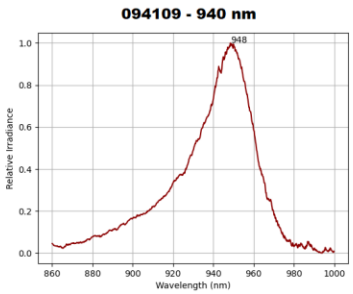



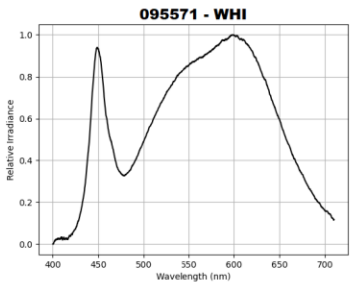




[Return to Table of Contents]

No Data Currently Available

Return to Table of Contents