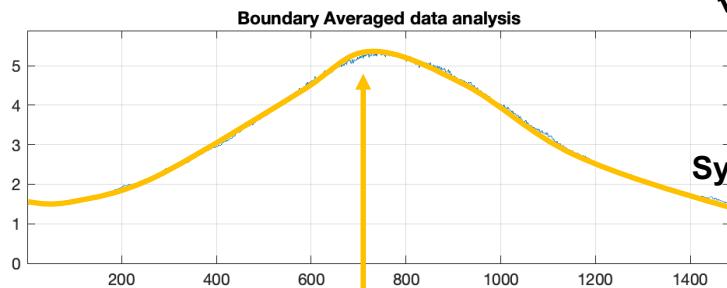
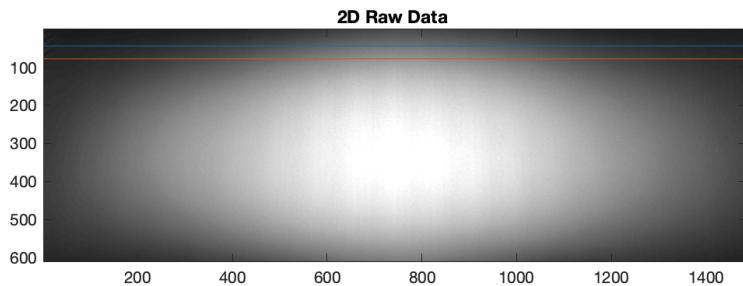
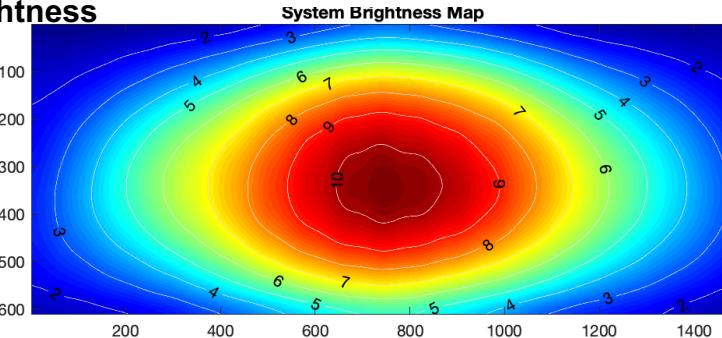
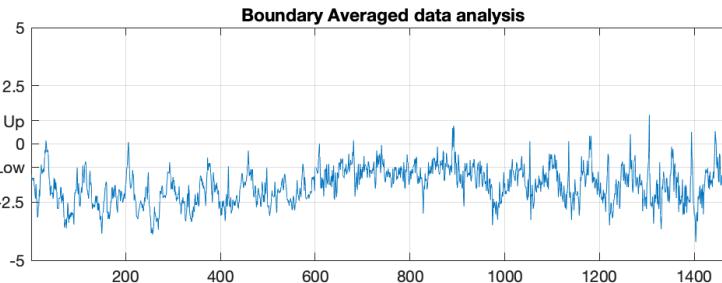
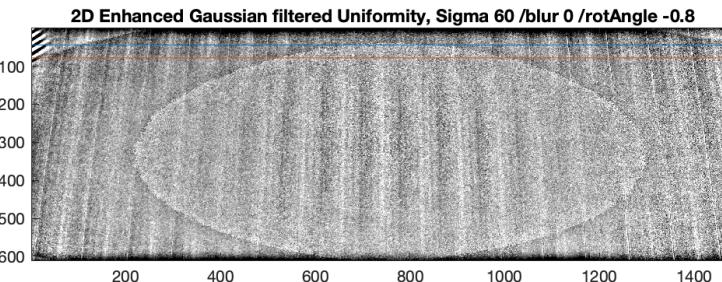
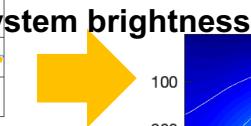


Definitions and Calculations

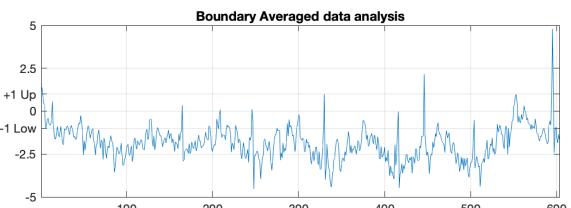
This analysis would generate 3 files: “Raw data” , “system brightness” [use gaussian to exarate the brightness profile] “filtered Uniformity” [the percentage of (raw data-system brightness)/system brightness, means the fluctuation to local



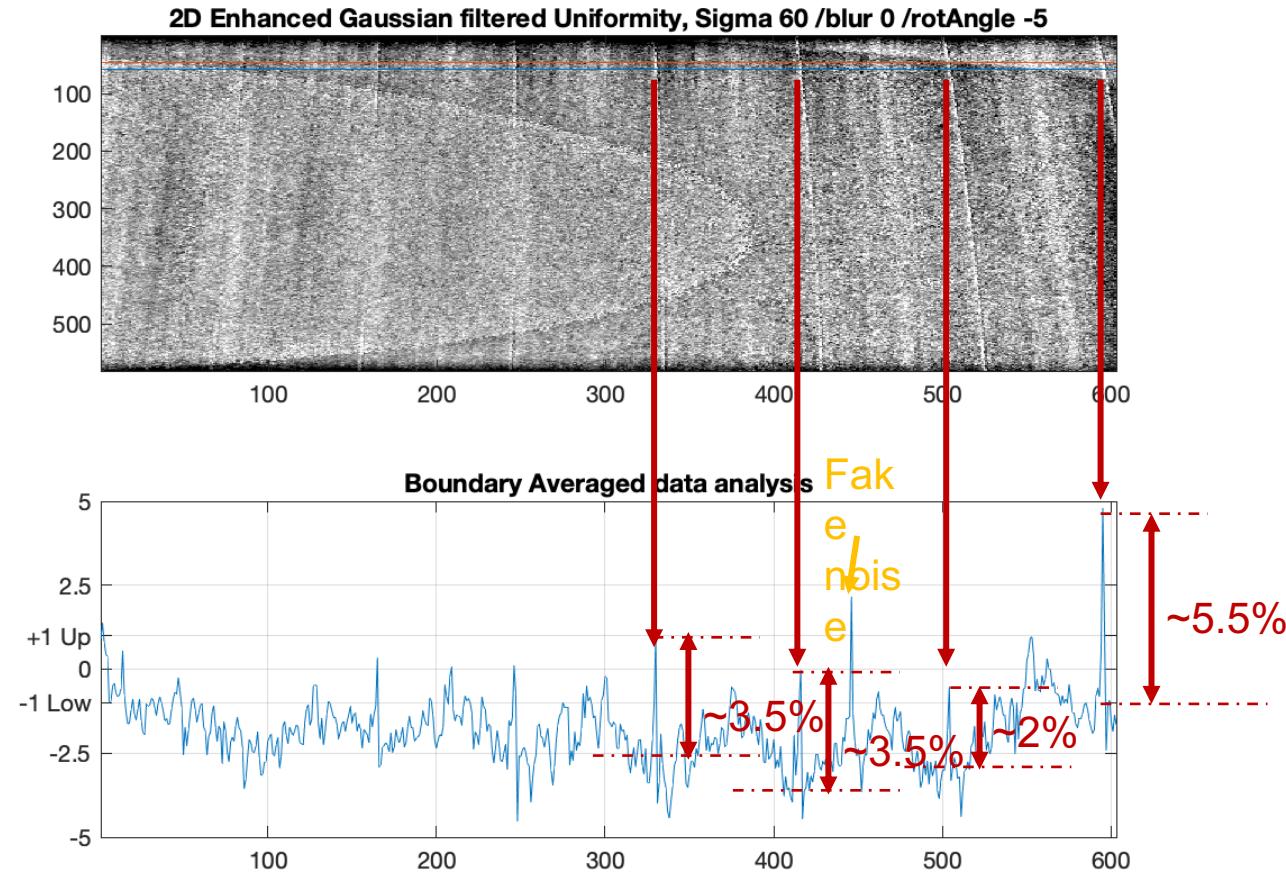
The gaussian smoothed profile
= system brightness



Some trick here, the data between this two lines are averaged in order to eliminate the measured pixel noise. So smaller selecting range would keep more closed to raw data and larger range would be more realized. To keep more realized calculation, making a vertical aligned image by rotating the chopped image would help



Percentage of the readthru is read by below. We could record the max. percentage as the magnitude of the installation



Software

Start up and Data Loading – Optical Analysis

Input Auditorium or any information for record

Select Data Folder

Select 2D Brightness File

Select 3D-LKRW Right Eye Bright File

Select 3D-LKRW Left Eye Dark File

Select 3D-LWRK Left Eye Bright File

Select 3D-LWRK Right Eye Dark File

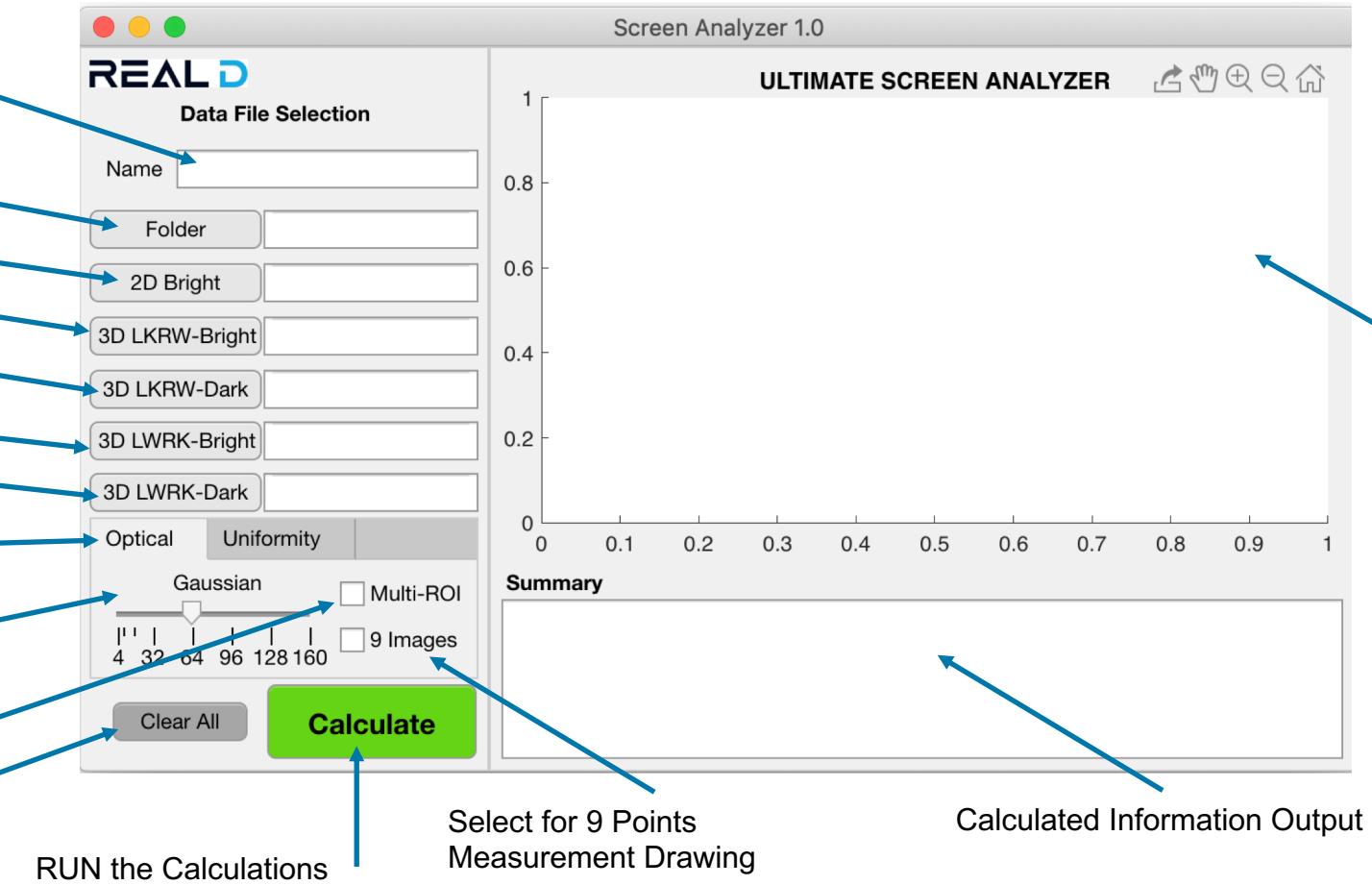
Optical Analysis: Brightness / SCR

Gaussian Smooth Value for Noise

Reduction: Typical 64/32

Select for Individual ROI Region Selection

Clear Up All Selections



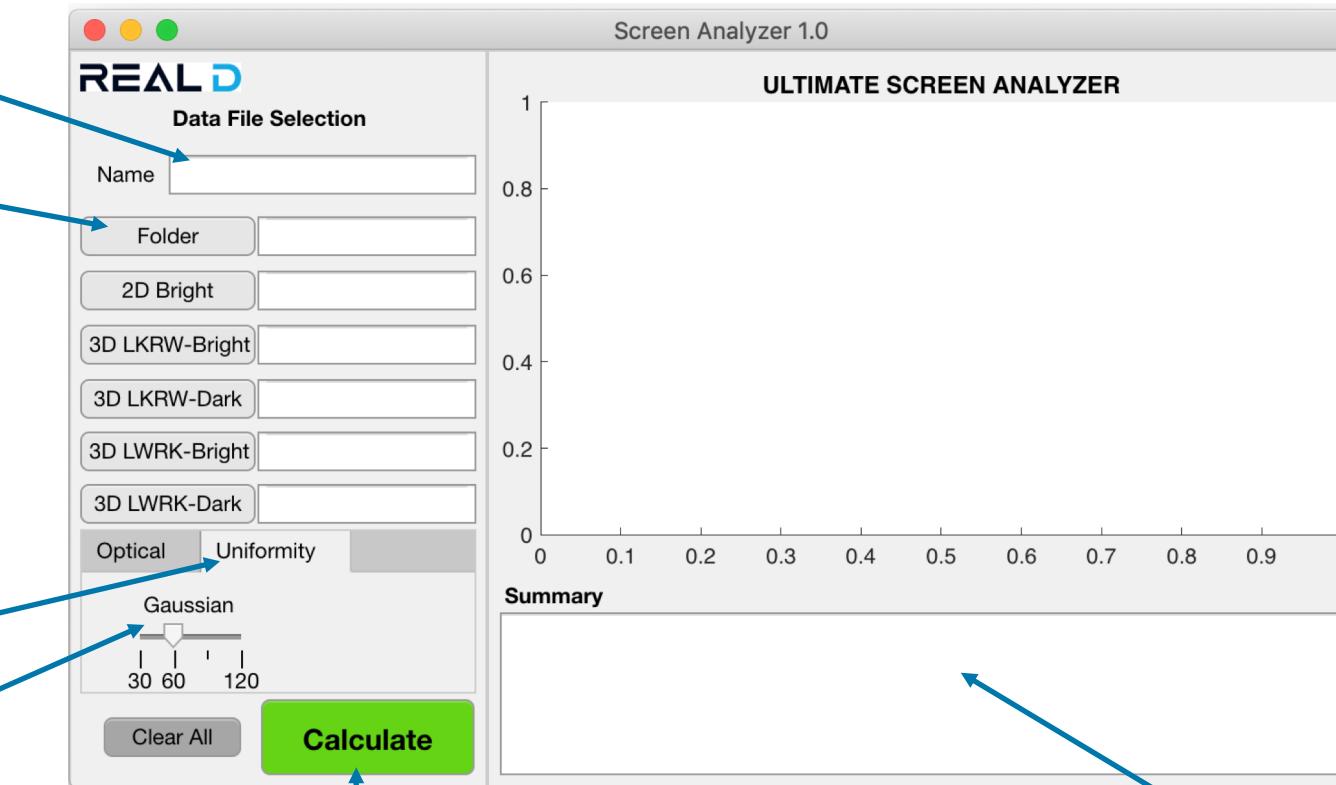
Start up and Data Loading – Uniformity Analysis

Input Auditorium or any information for record

Select Data Folder

Uniformity Analysis: Readthrough

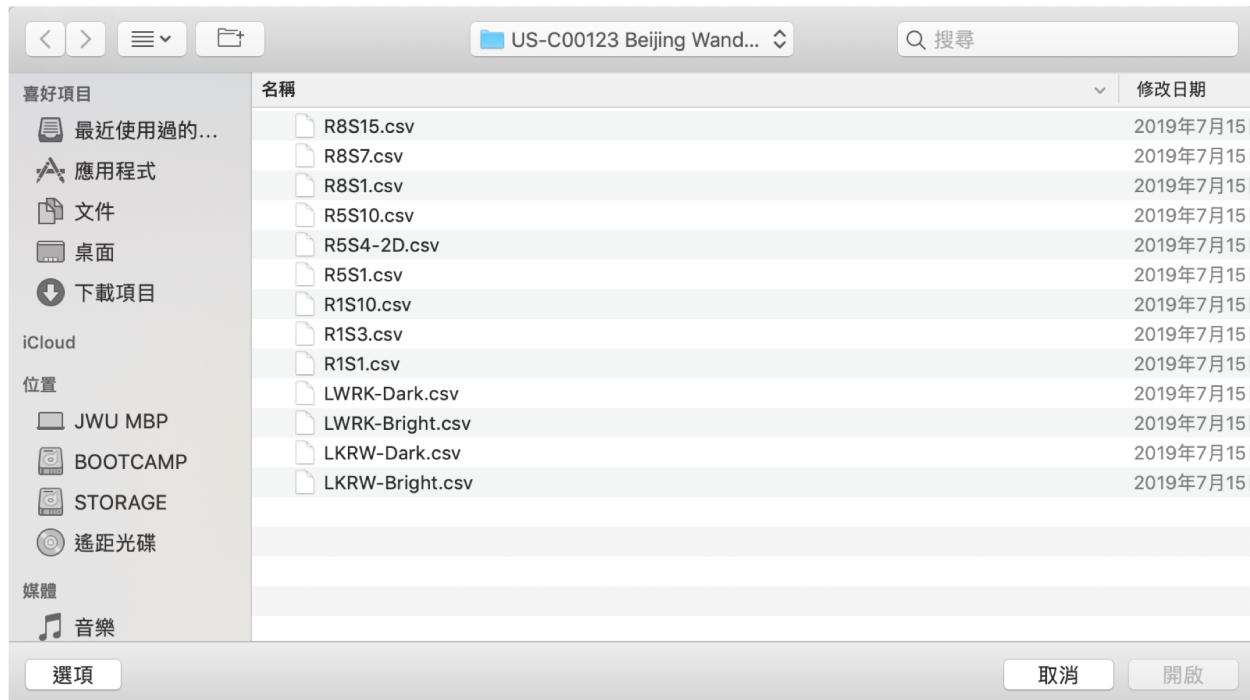
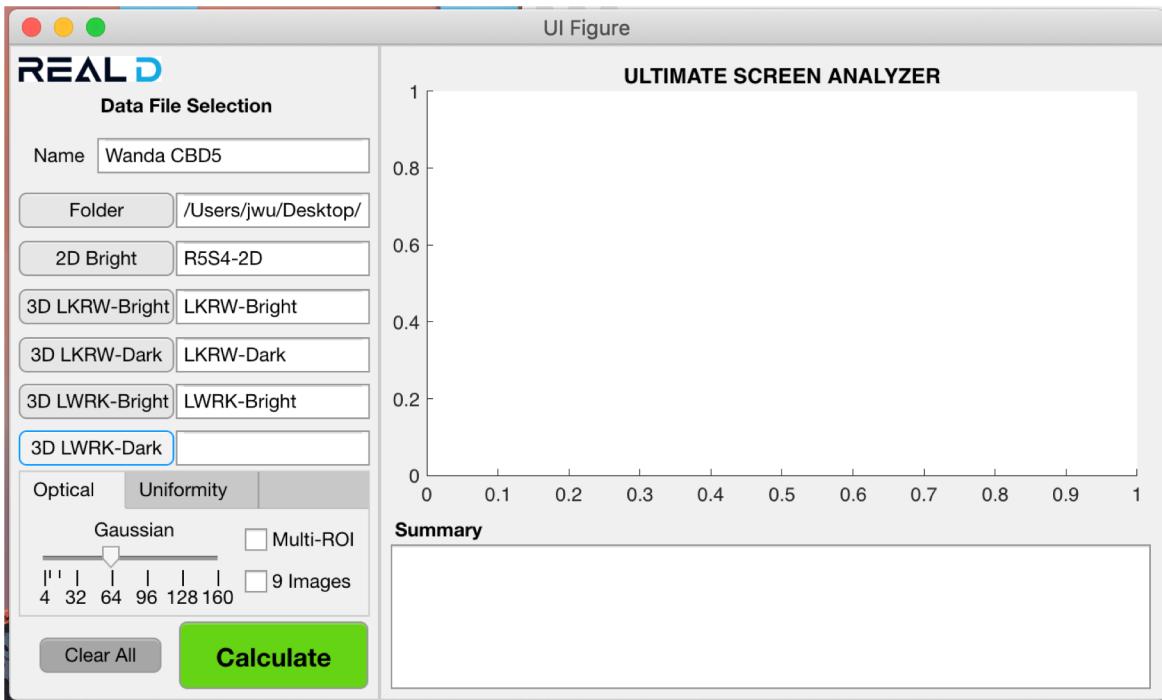
Gaussian Filter for Projector Light
Subtraction: Typical 60/120



RUN the Calculations

Calculated Information Output

Optical Performance Analysis – File selection

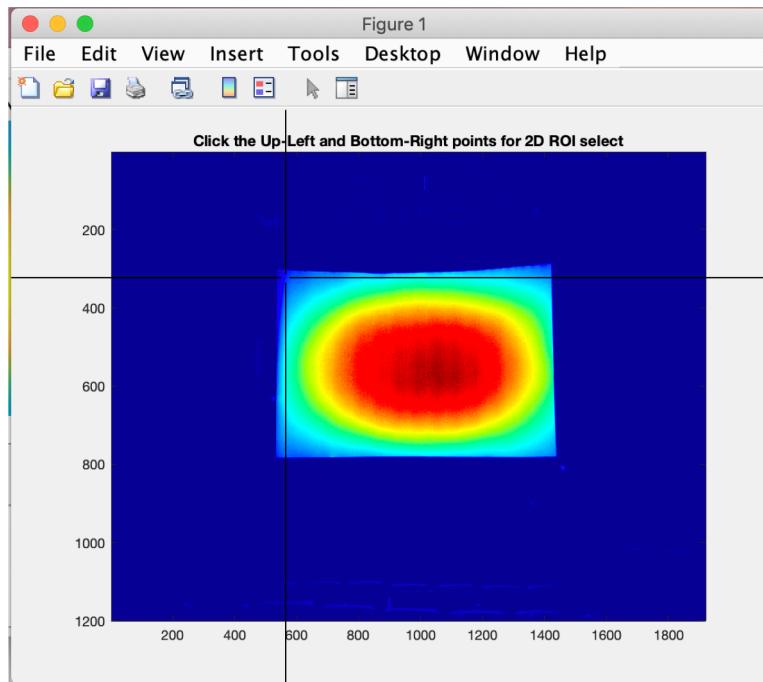


Optical Performance Analysis – ROI selection

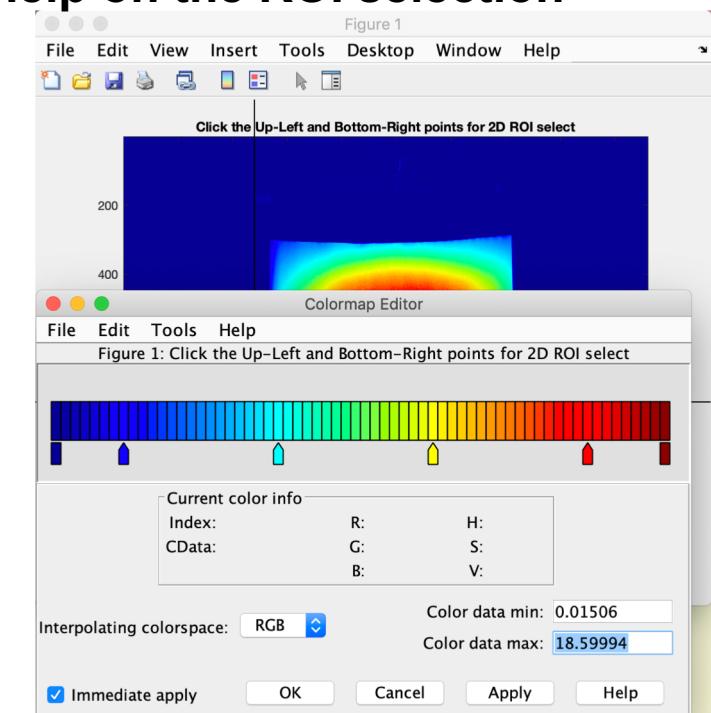
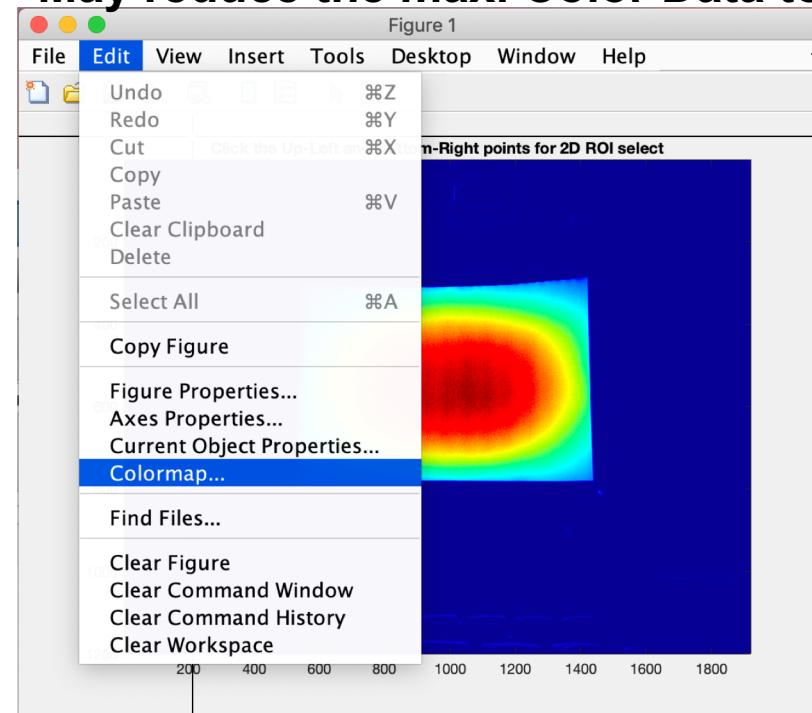
ROI Selection

Upper-Left and and Bottom-Right Corner

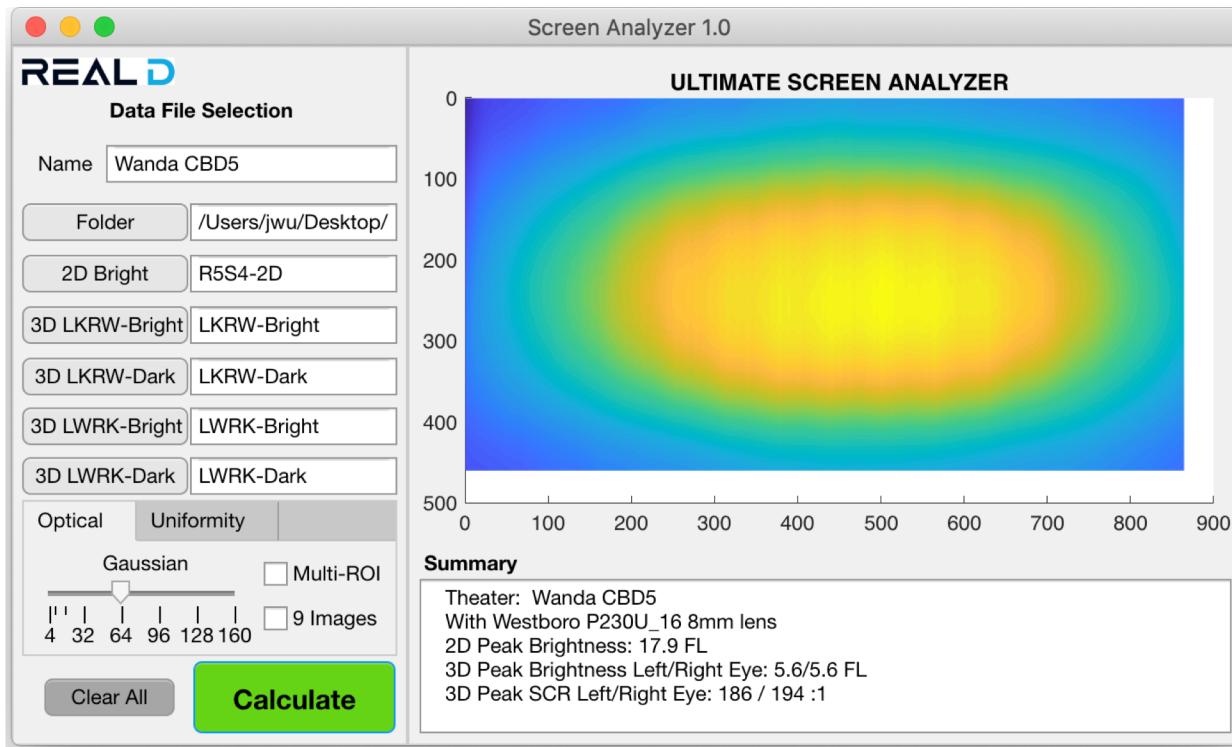
*Make sure the selected region is inside the screen



May reduce the max. Color Data to help on the ROI selection



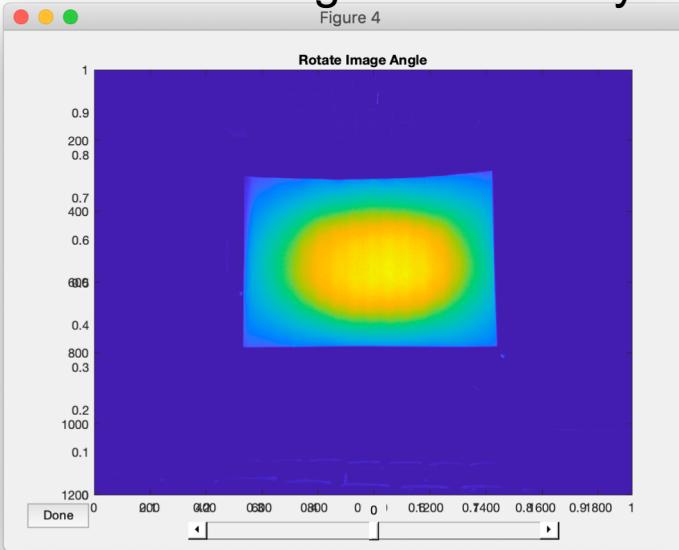
Optical Analysis



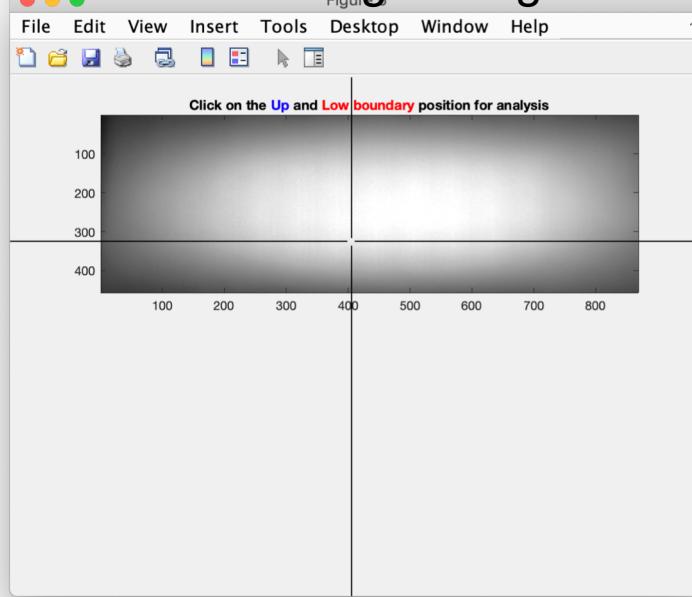
名稱	修改日期	大小	種類
Wanda CBD5-2D Brightness.png	今天下午1:32	138 KB	PNG 影像
Wanda CBD5-3D Left-Eye SCR.png	今天下午1:32	246 KB	PNG 影像
Wanda CBD5-3D Right-Eye SCR.png	今天下午1:32	266 KB	PNG 影像
LKRW-Bright.csv	2019年7月15日 上午11:20	16.4 MB	CSV 文件
LKRW-Dark.csv	2019年7月15日 上午11:21	16.1 MB	CSV 文件
LWRK-Bright.csv	2019年7月15日 上午11:20	16.4 MB	CSV 文件
LWRK-Dark.csv	2019年7月15日 上午11:20	16.1 MB	CSV 文件
R1S1.csv	2019年7月15日 上午11:06	16.9 MB	CSV 文件
R1S3.csv	2019年7月15日 上午11:09	17 MB	CSV 文件
R1S10.csv	2019年7月15日 上午11:09	16.7 MB	CSV 文件
R5S1.csv	2019年7月15日 上午11:17	16.5 MB	CSV 文件
R5S4-2D.csv	2019年7月15日 上午11:18	16.6 MB	CSV 文件
R5S10.csv	2019年7月15日 上午11:11	16.5 MB	CSV 文件
R8S1.csv	2019年7月15日 上午11:17	16.3 MB	CSV 文件
R8S7.csv	2019年7月15日 上午11:17	16.4 MB	CSV 文件
R8S15.csv	2019年7月15日 上午11:16	16.3 MB	CSV 文件
Wanda CBD5-Summary.txt	今天下午1:32	267 byte	純文字文件

Uniformity Analysis

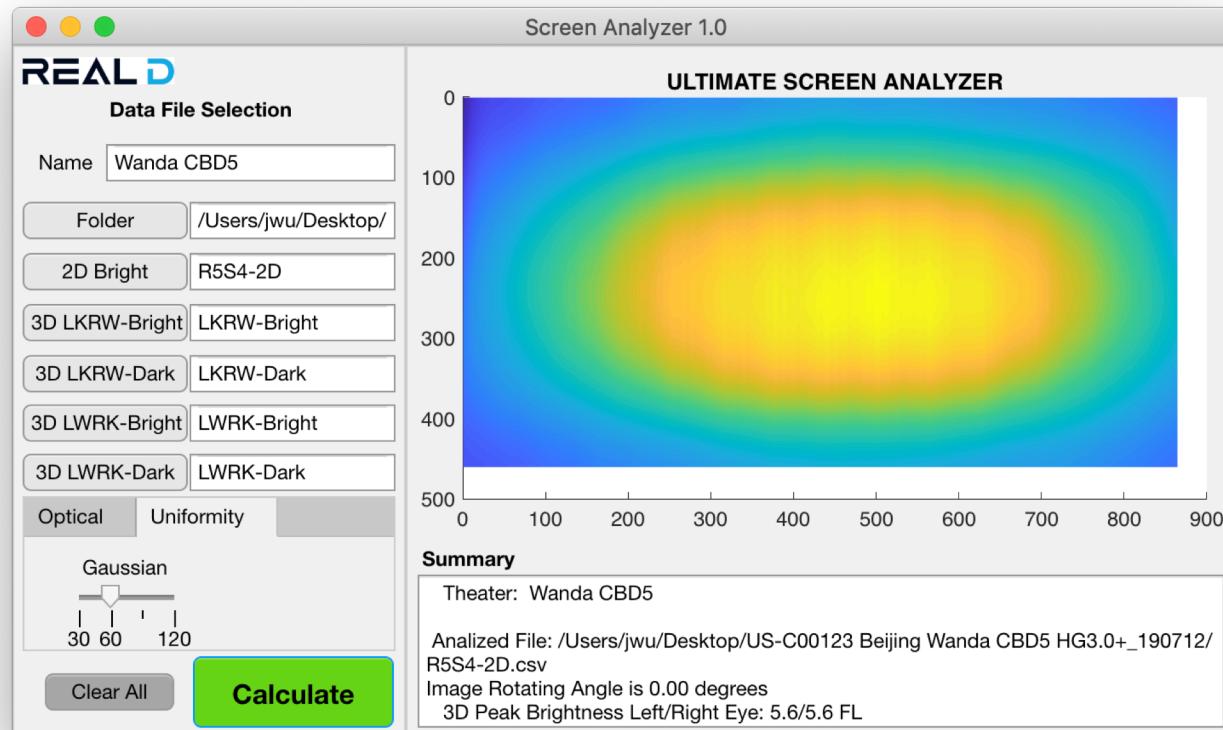
Rotate the Image if necessary



Select the Averaged Region



Information and Analyzed File Output



名稱

R5S4-2D Enhanced Gaussian filtered Uniformity.png

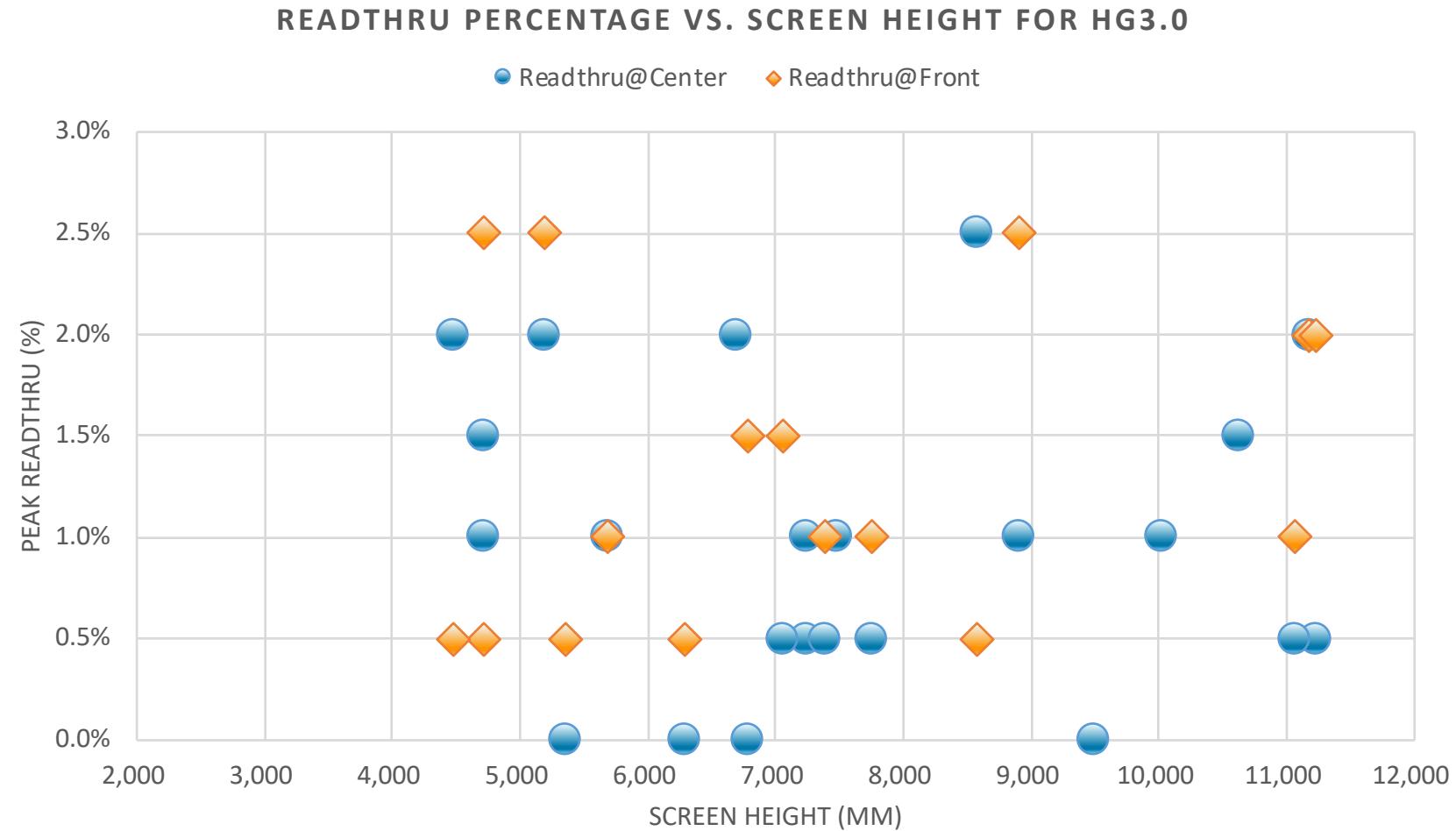
R5S4-2D System Brightness Map.png

R5S4-2D Uniformity Raw Data.png

Summary Records

In Auditorium Readthru Analysis – High Gain 3.0

Total 24 records from 73 installed screen (101 screens produced)



In Auditorium Readthru Analysis – VHG 4.0

Total 6 records from 24 installed screen (35 screens produced)

