R

waterfirst



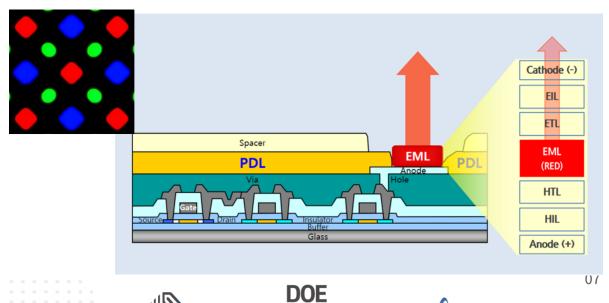
1 Photo

 PDL CD2 OLED

, , Target CD 40

target CD \mathbf{R}

CD , 2. Boxplot 1.









GLASS 번호	재료	코팅두께	노광량	현상시간	경화온도			
1	А	2.5	50/60/70/80	50	250			
2	А	2.5	50/60/70/80	60	250			
3	А	2.5	50/60/70/80	70	250			
4	А	3	50/60/70/80	50	250			
5	А	3	50/60/70/80	60	250			
6	А	3	50/60/70/80	70	250			
7	А	3.5	50/60/70/80	50	250			
8	А	3.5	50/60/70/80	60	250			
9	А	3.5	50/60/70/80	70	250			
10								

재료	코팅두께	노광량	현상시간	경화온도
В	2.5	50/60/70/80	50	250
В	2.5	50/60/70/80	60	250
В	2.5	50/60/70/80	70	250
В	3	50/60/70/80	50	250
В	3	50/60/70/80	60	250
В	3	50/60/70/80	70	250
В	3.5	50/60/70/80	50	250
В	3.5	50/60/70/80	60	250
В	3.5	50/60/70/80	70	250
				250
	B B B B B B	B 2.5 B 2.5 B 2.5 B 3 B 3 B 3 B 3.5 B 3.5	B 2.5 50/60/70/80 B 2.5 50/60/70/80 B 2.5 50/60/70/80 B 3 50/60/70/80 B 3 50/60/70/80 B 3 50/60/70/80 B 3 50/60/70/80 B 3.5 50/60/70/80 B 3.5 50/60/70/80	B 2.5 50/60/70/80 50 B 2.5 50/60/70/80 60 B 2.5 50/60/70/80 70 B 3 50/60/70/80 50 B 3 50/60/70/80 60 B 3 50/60/70/80 60 B 3 50/60/70/80 70 B 3.5 50/60/70/80 50 B 3.5 50/60/70/80 60

 $: \ https://raw.githubusercontent.com/waterfirst/Data_visualization/main/data/cd.csv$

library(tidyverse)

Warning: package 'ggplot2' was built under R version 4.3.3

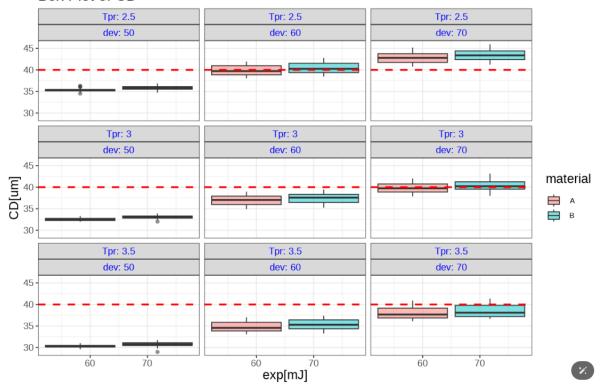
Warning: package 'dplyr' was built under R version 4.3.3

-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --

cd <- read.csv("https://raw.githubusercontent.com/waterfirst/Data_visualization/main/data/cd
head(cd)</pre>

	glass	point	${\tt material}$	Tpr	exp	dev	cd
1	1	1	A	2.5	50	50	35.15
2	1	2	A	2.5	50	50	35.40
3	1	3	A	2.5	50	50	35.39
4	1	4	A	2.5	50	50	34.50
5	1	5	A	2.5	50	50	35.17
6	1	6	Α	2.5	50	50	34.84

Box Plot of CD



2 Dry

metal etch .

Recipe 5 metal etch CD . Uniformity recipe

- 1. Recipe CD
- 2. Boxplot, violin, histogram, Heat map CD MAP

 $: https://raw.githubusercontent.com/waterfirst/Data_visualization/main/data/dry_etch.csv$

library(tidyverse)

dry <- read.csv("https://raw.githubusercontent.com/waterfirst/Data_visualization/main/data/di head(dry)

recipe gas_cf4 gas_o2 pressure time x1 y1 1 recipe1 2000 500 50 1 2.82 2 recipe1 2000 500 50 30 2 2.82 1 3 recipe1 2000 50 500 30 1 3 2.87

4 recipe1	2000	500	50	30	1	4 3.11
5 recipe1	2000	500	50	30	1	5 3.53
6 recipe1	2000	500	50	30	1	6 2.83

