

irrad_batch		
id		int
name		varchar
date		timestampz
tgt_fluence		double precision
avg_fluence		double precision
angle		real
base_press		double precision
op_press		double precision
bm_volt		real
start_curr		real
start_flux	generated always as (end_curr * cos(angle) * 5006.1731) stored	
end_curr		real
time		real
cath_curr		real
disch_curr		real
disch_volt		real
beam_curr		real
acc_curr		real
acc_volt		real
nutr_emiss		real
fil_curr		real
misc		jsonb

sample	
edi_sample_id	int
name	varchar
dimensions	varchar
composition	varchar
mfr_sample_id	varchar
batch	int

image	
id	int
radial_loc	varchar
linear_loc	varchar
thread_loc	varchar
sample_id	int
img_data	varbinary
path	varchar
avg_wavelength	float
id, radial_loc, linear_loc, thread_loc, sample_id	

line_measurement	
id	int
image_id	int
radial_loc	varchar
linear_loc	varchar
thread_loc	varchar
sample_id	int
meas_by	varchar
length	float
intercepts	int
unit	varchar
image_id, radial_loc, linear_loc, thread_loc, sample_id	

