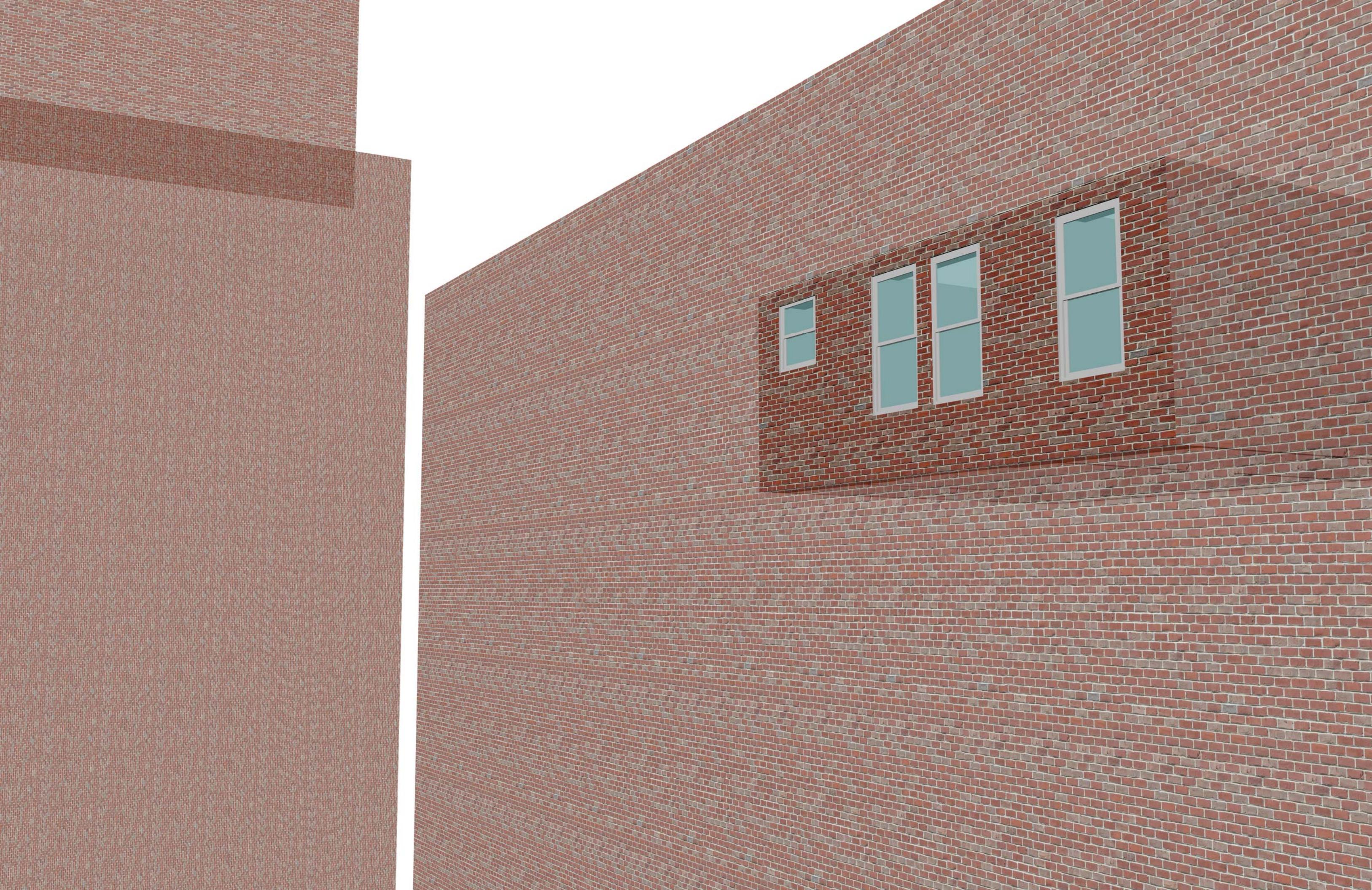
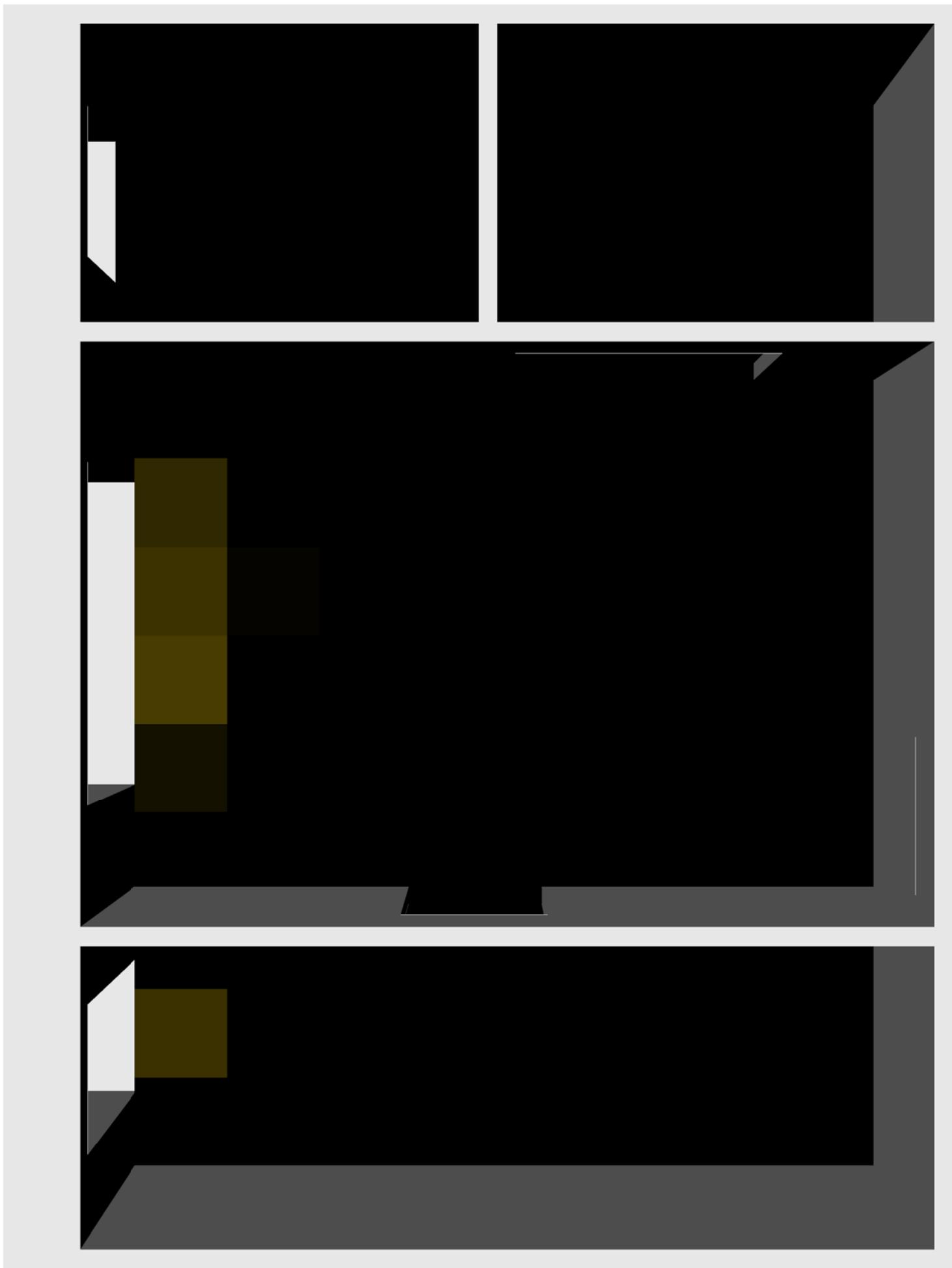
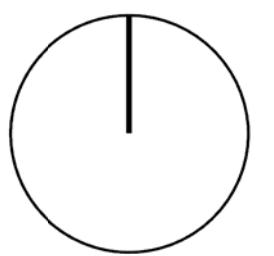


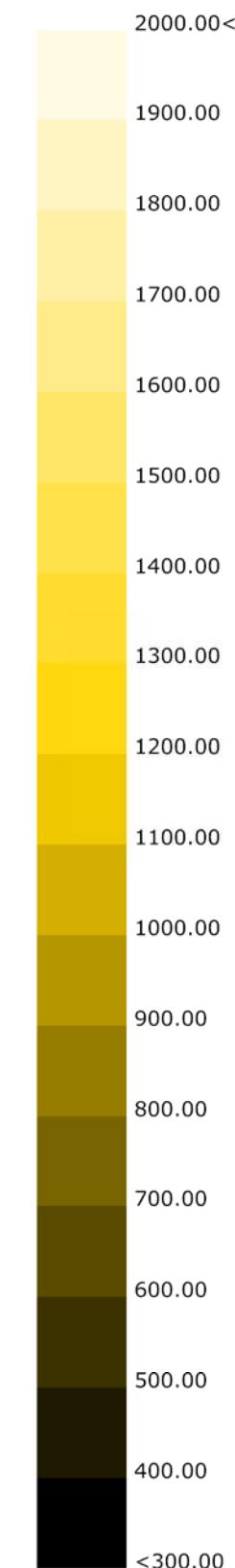
Light index = (# of mesh faces with illuminance < 300 lux) + (# of mesh faces with illuminance > 2000 lux)

1. Existing apartment



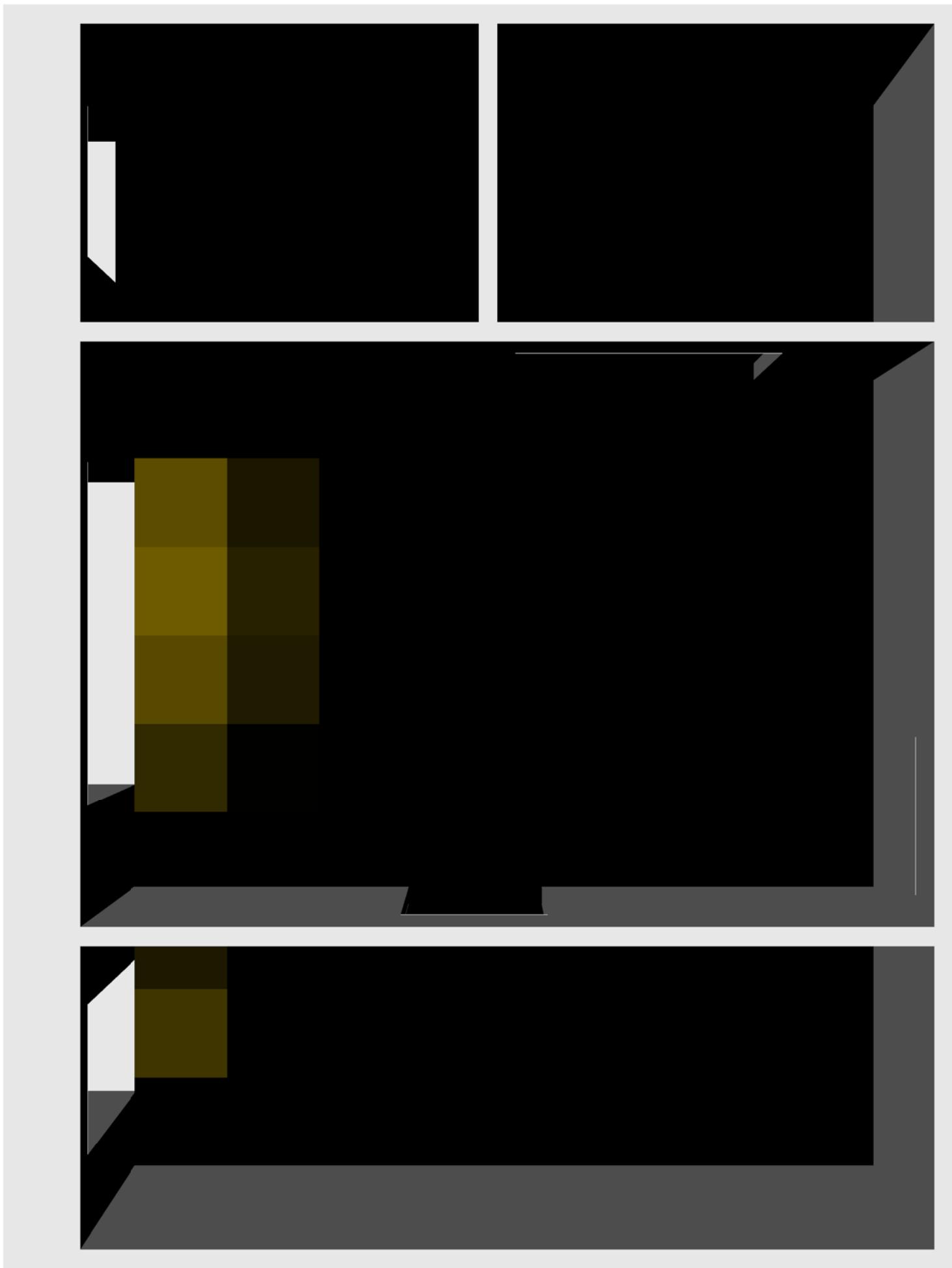
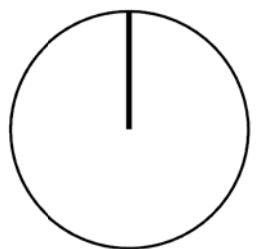


Illumination in lux

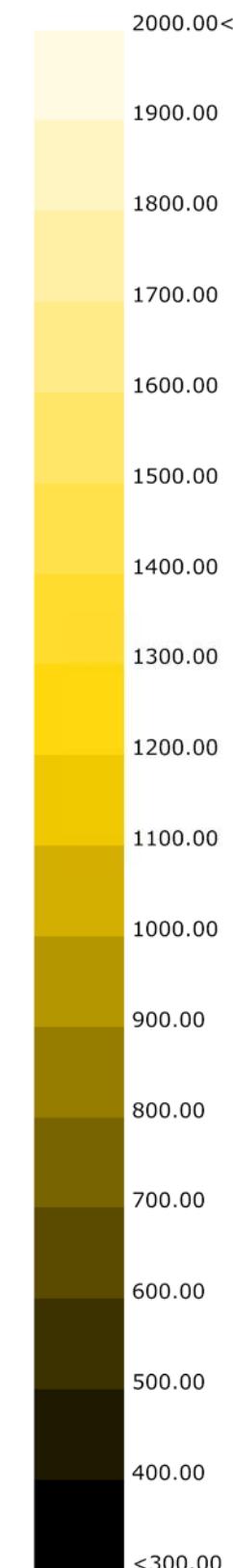


Light index:90.0

MM/DD/HH: 032109



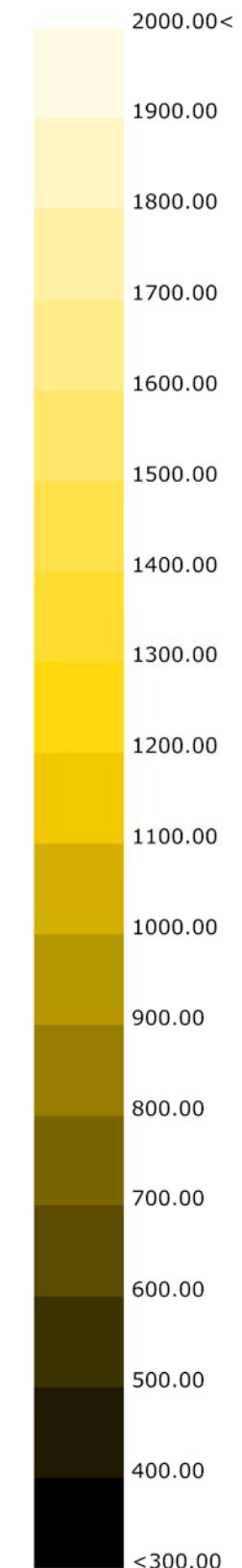
Illumination in lux



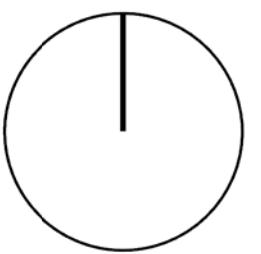
Light index:86.0

MM/DD/HH: 032112

Illumination in lux

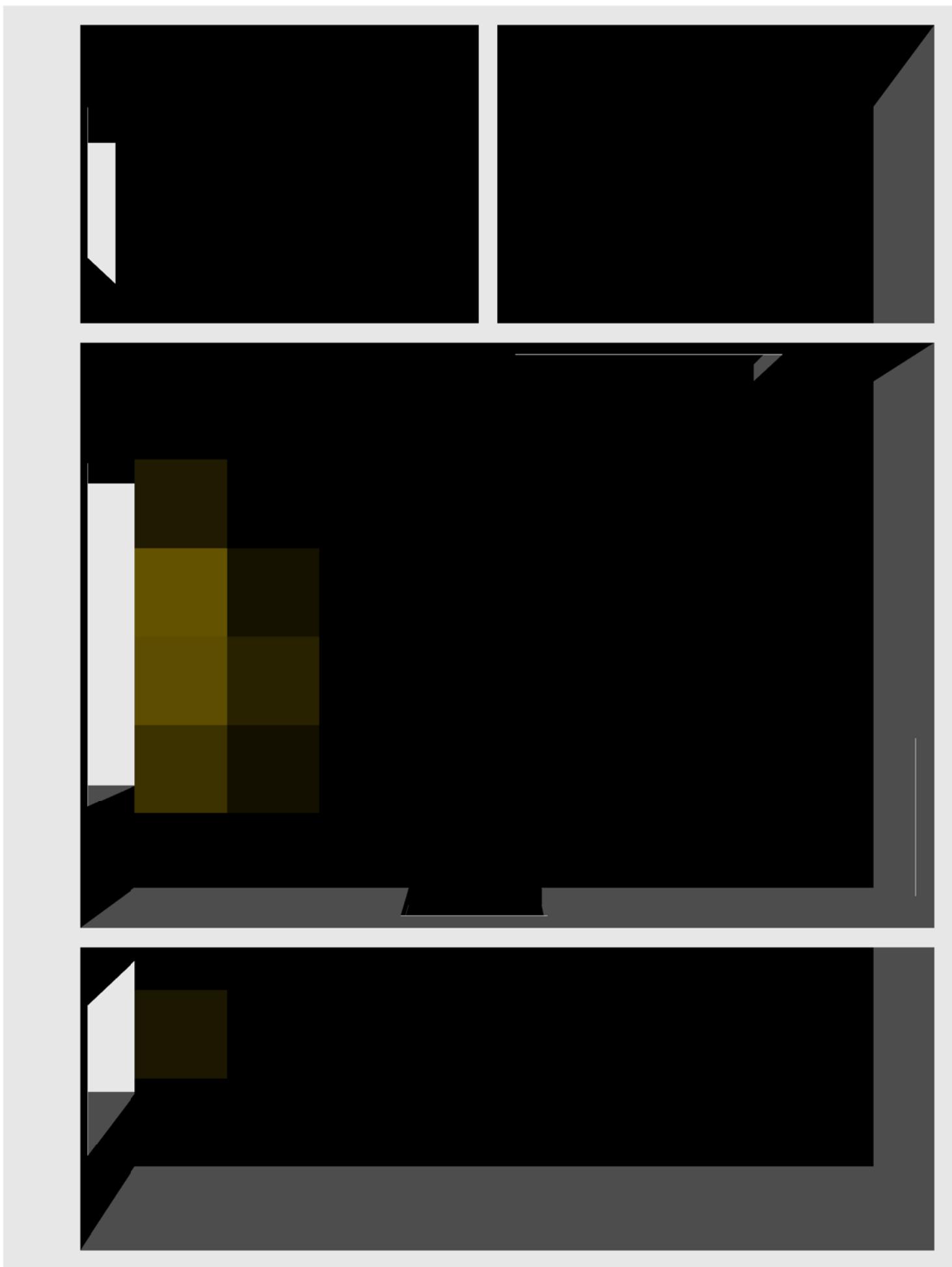
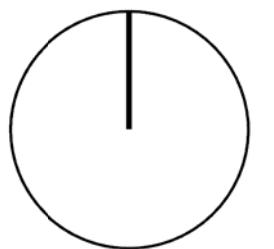


Living/Bed Room

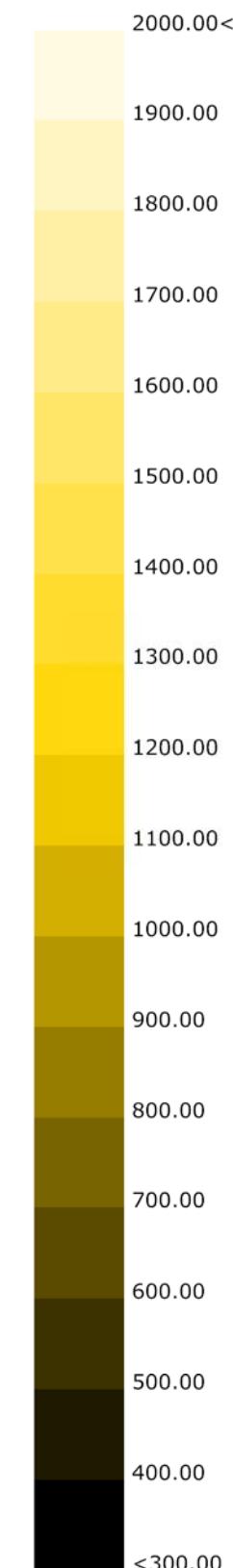


Light index:48.0

MM/DD/HH: 032115

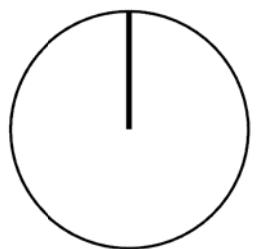


Illumination in lux

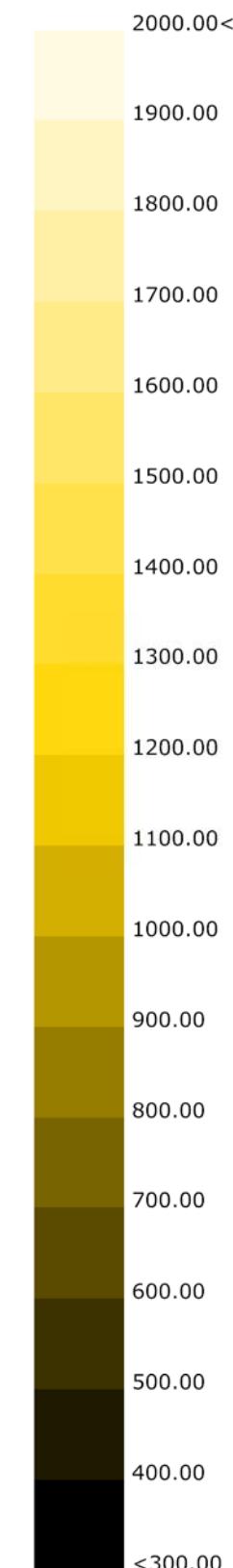


Light index: 88.0

MM/DD/HH: 062109



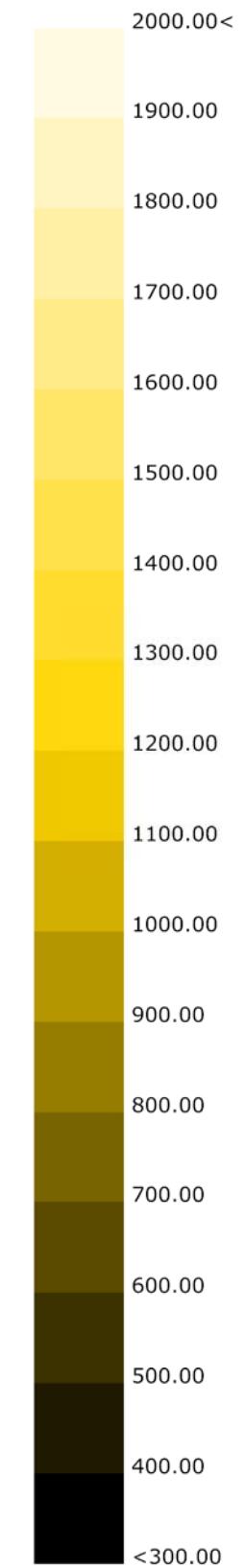
Illumination in lux



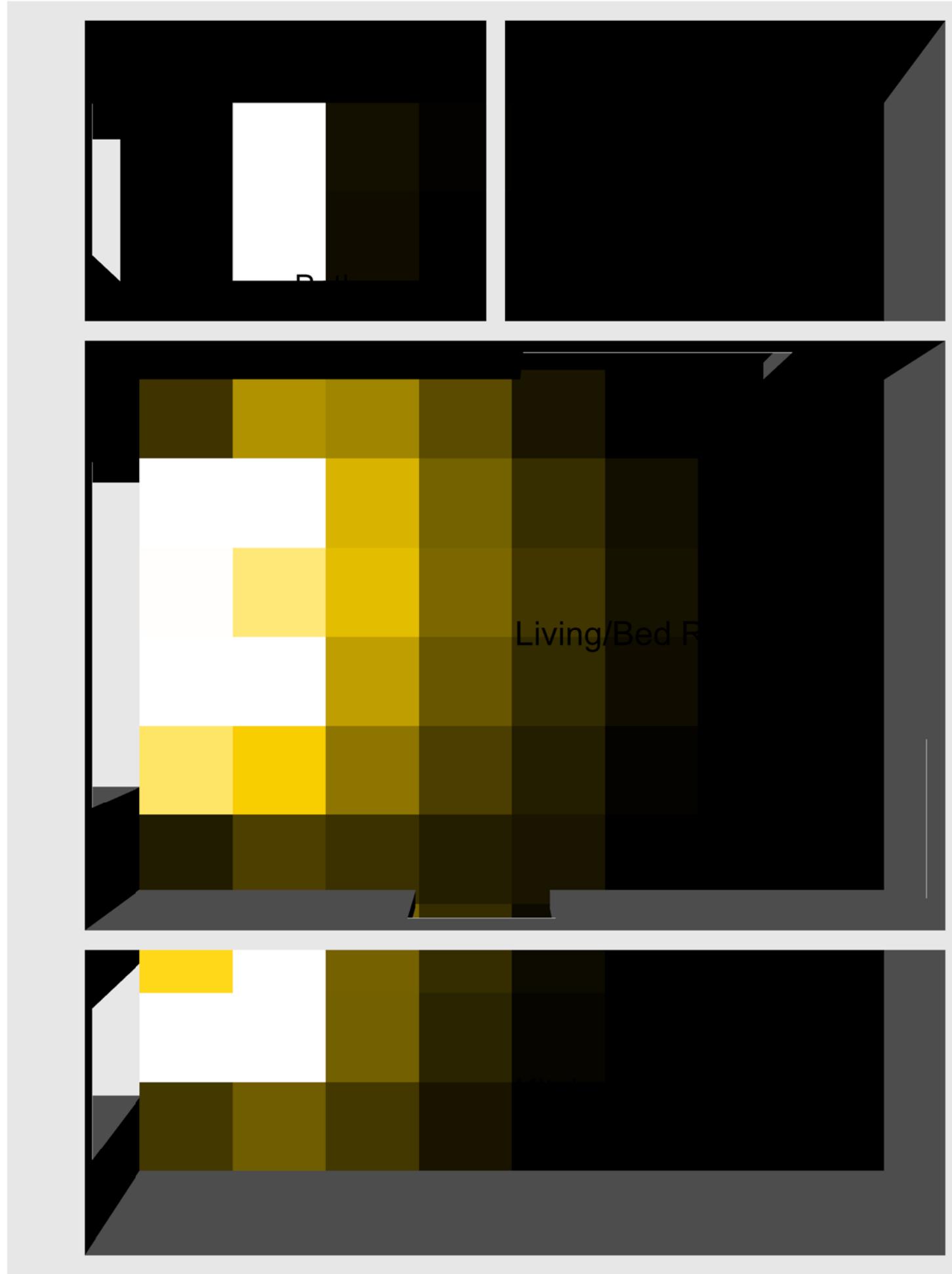
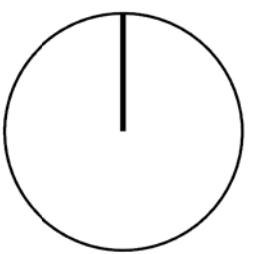
Light index:86.0

MM/DD/HH: 062112

Illumination in lux

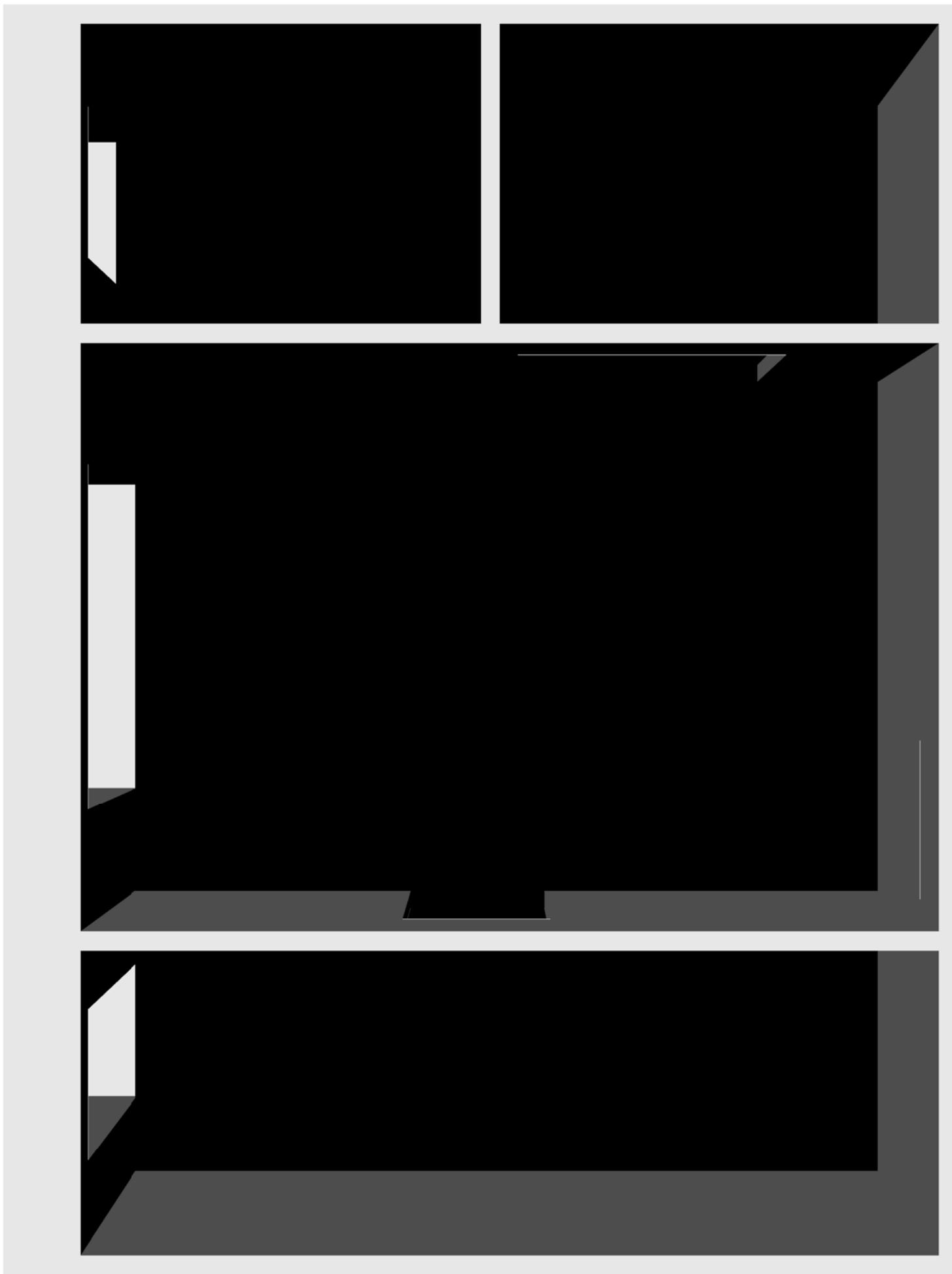
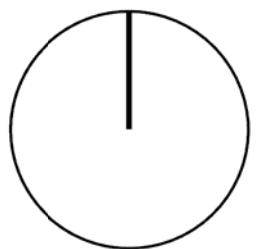


Living/Bed R

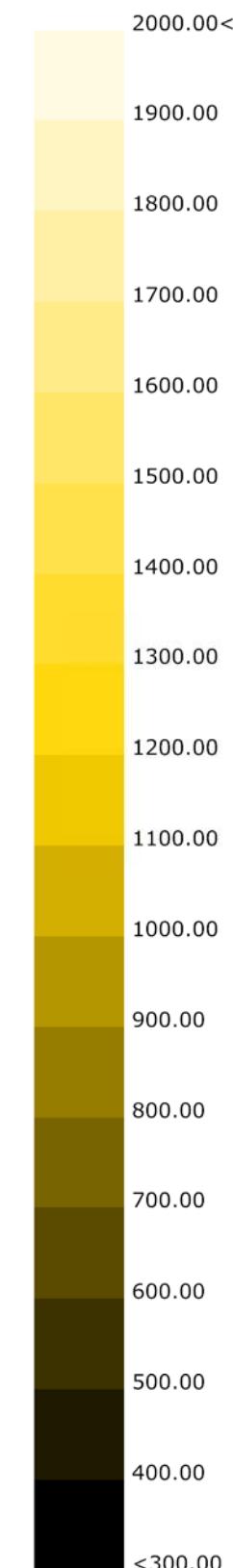


Light index:52.0

MM/DD/HH: 062115

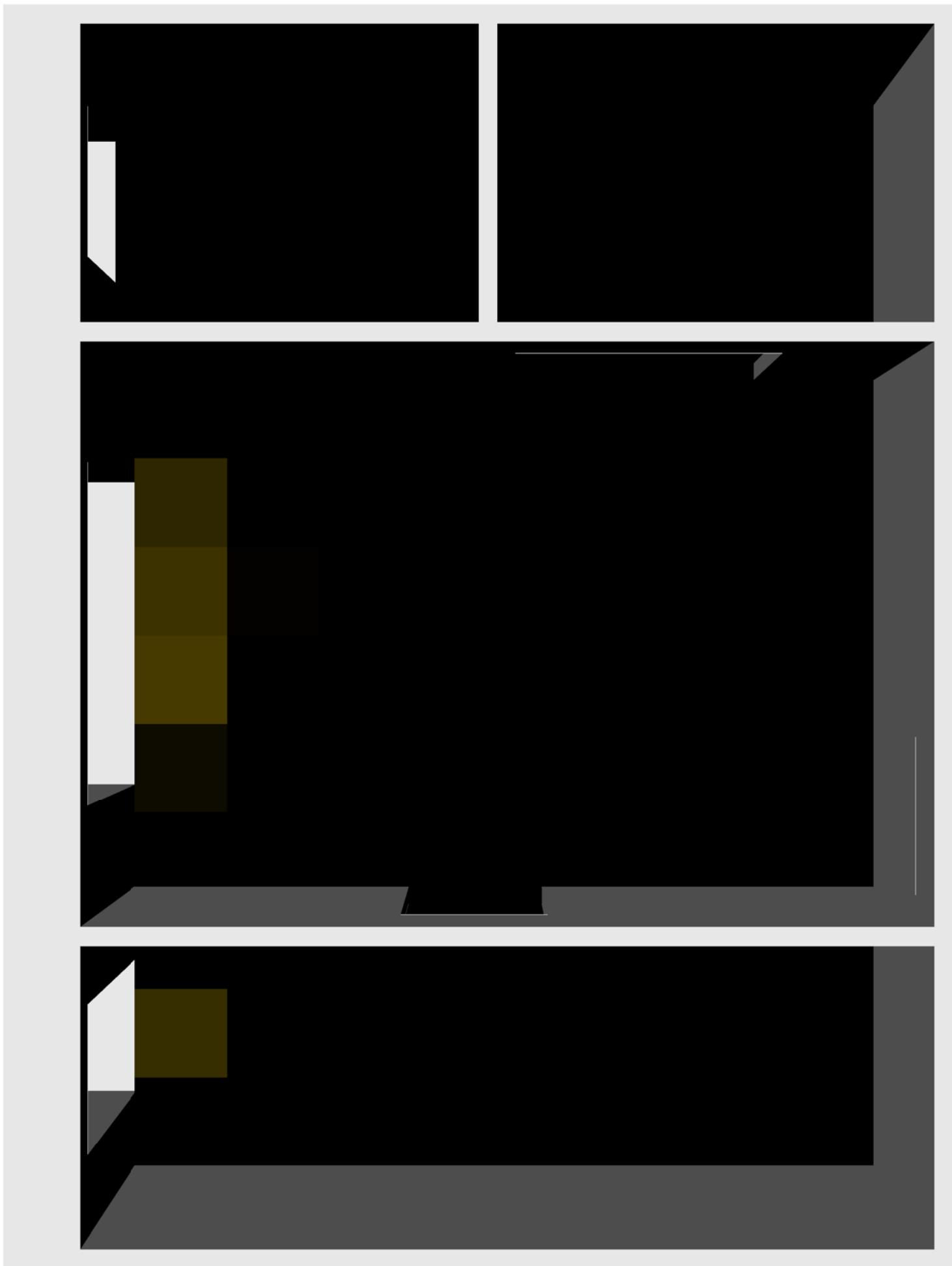
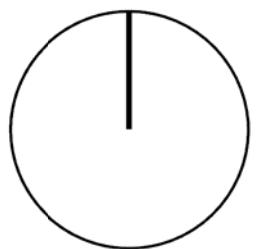


Illumination in lux

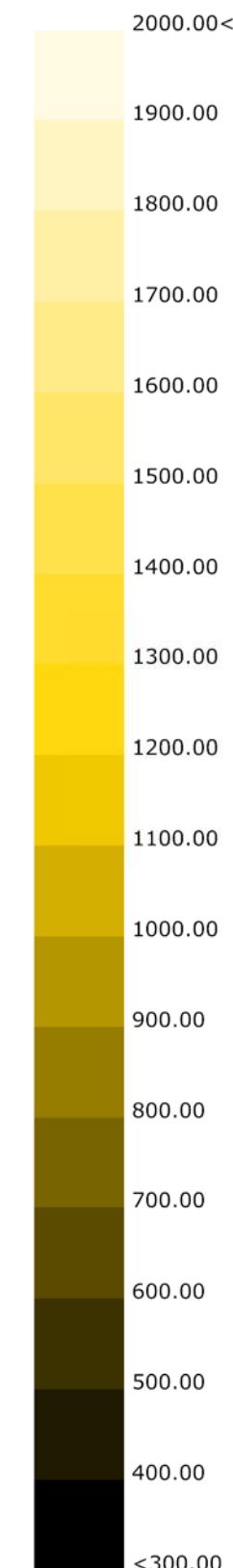


Light index:96.0

MM/DD/HH: 122109

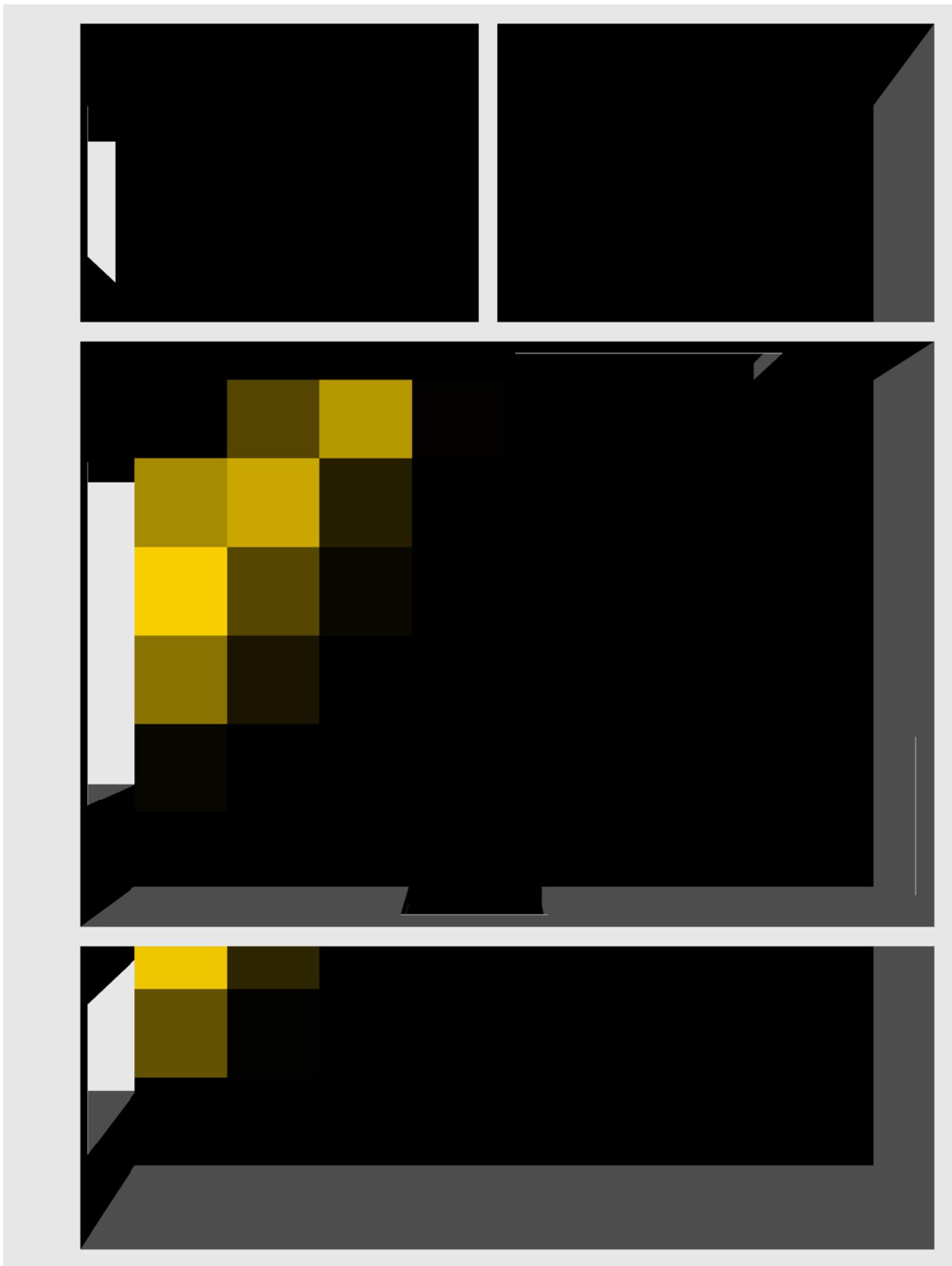
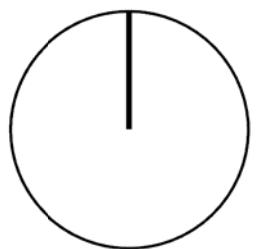


Illumination in lux

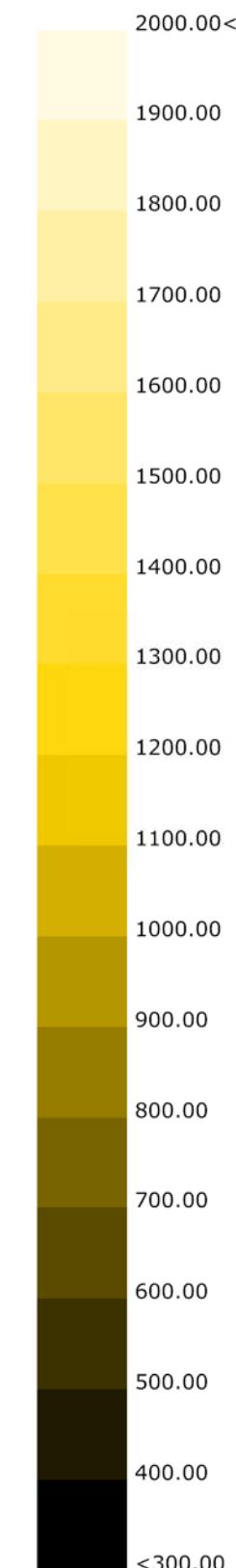


Light index:90.0

MM/DD/HH: 122112



Illumination in lux

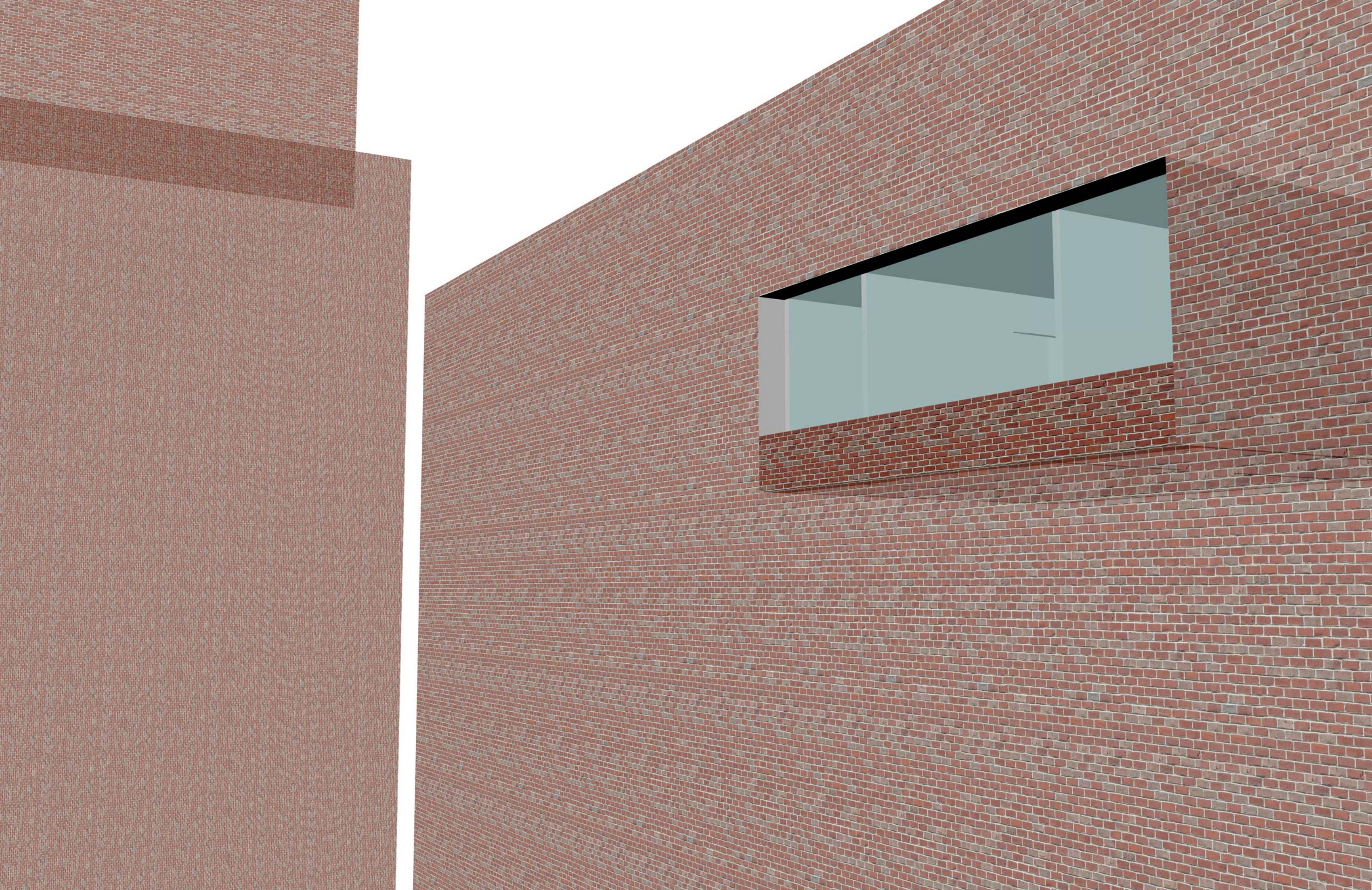


Light index:80.0

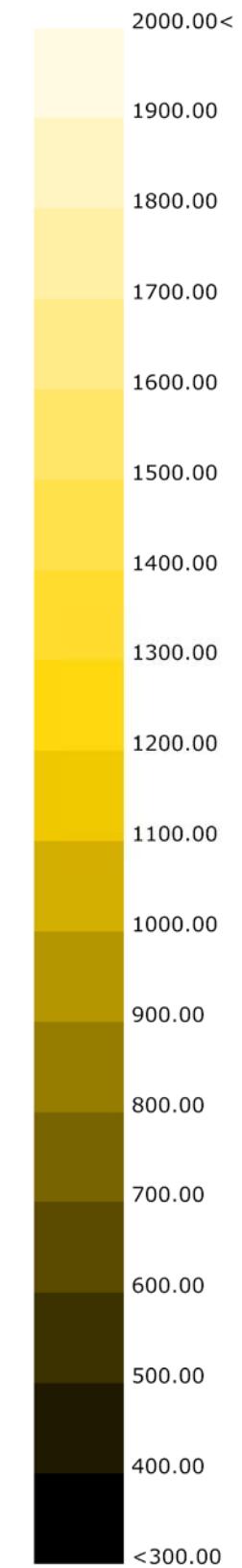
MM/DD/HH: 122115

Cumulative light index = 90+86+48+88+86+52+96+90+80 = 716

2. All-glass facade

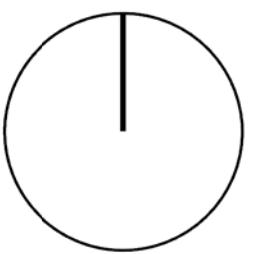


Illumination in lux



Bathroom

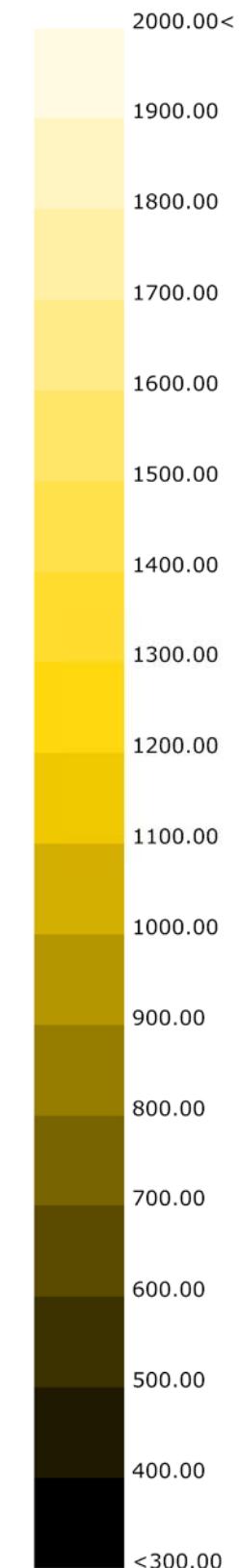
Living/Bed R



Light index:43.0

MM/DD/HH: 032109

Illumination in lux

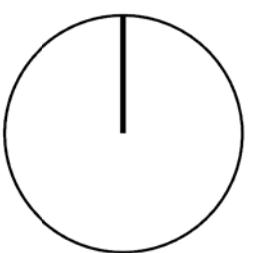


Bathroom

Closer

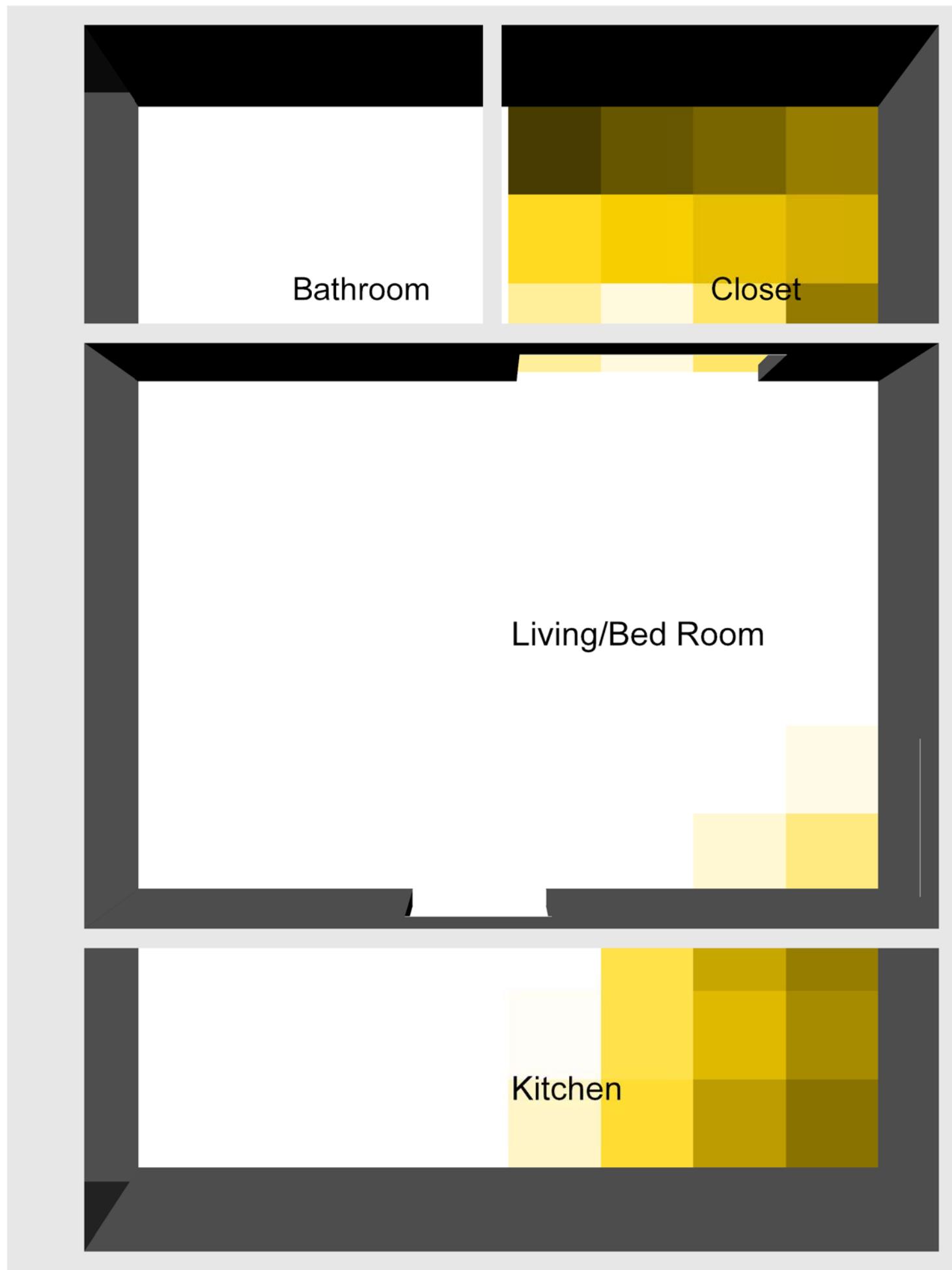
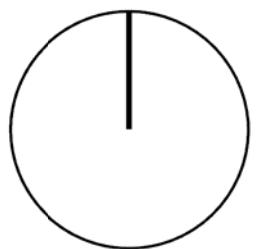
Living/Bed Room

Kitchen

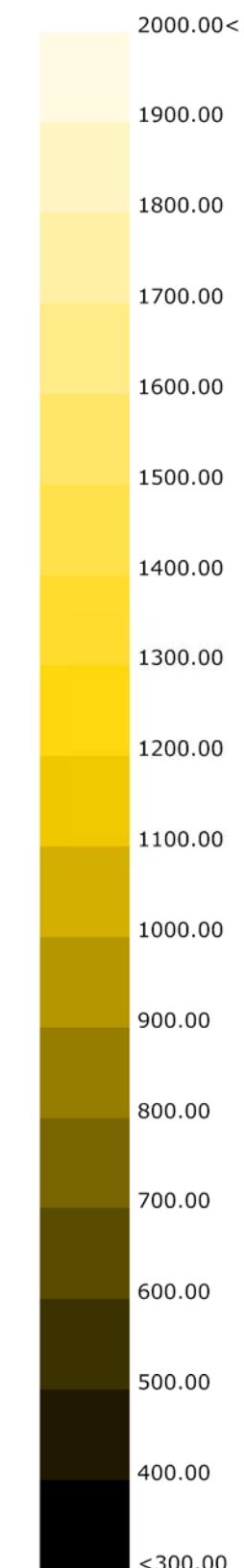


Light index:26.0

MM/DD/HH: 032112



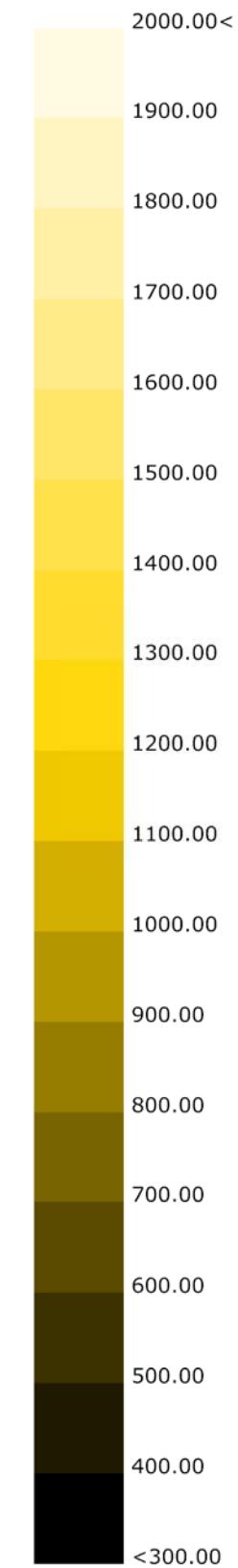
Illumination in lux



Light index:70.0

MM/DD/HH: 032115

Illumination in lux

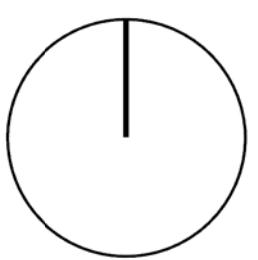


Bathroom

Closet

Living/Bed Room

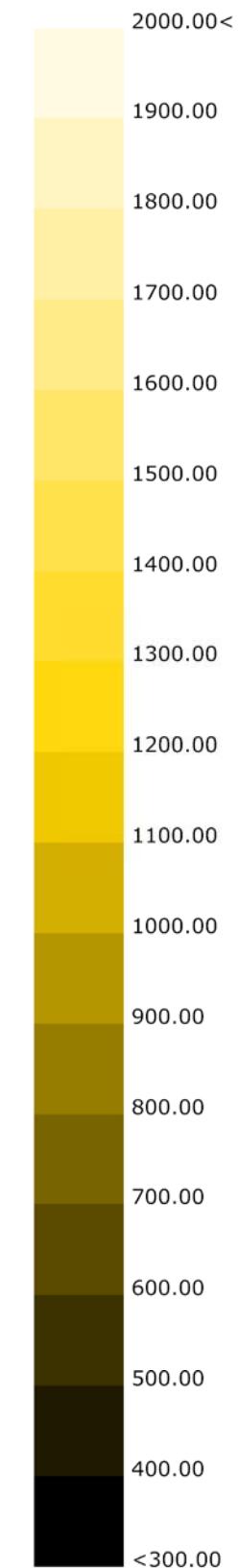
Kitchen



Light index:23.0

MM/DD/HH: 062109

Illumination in lux

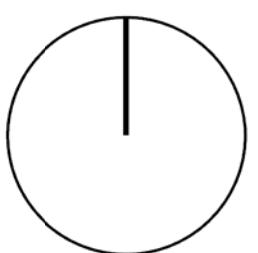


Bathroom

Closet

Living/Bed Room

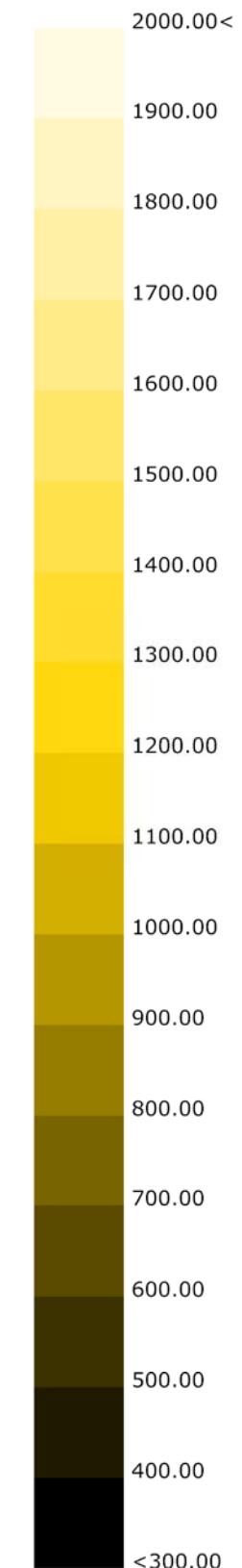
Kitchen



Light index:25.0

MM/DD/HH: 062112

Illumination in lux



Bathroom

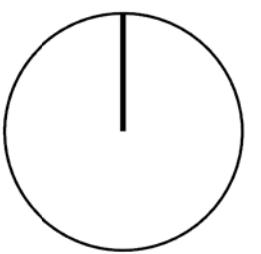
Closet

Living/Bed Room

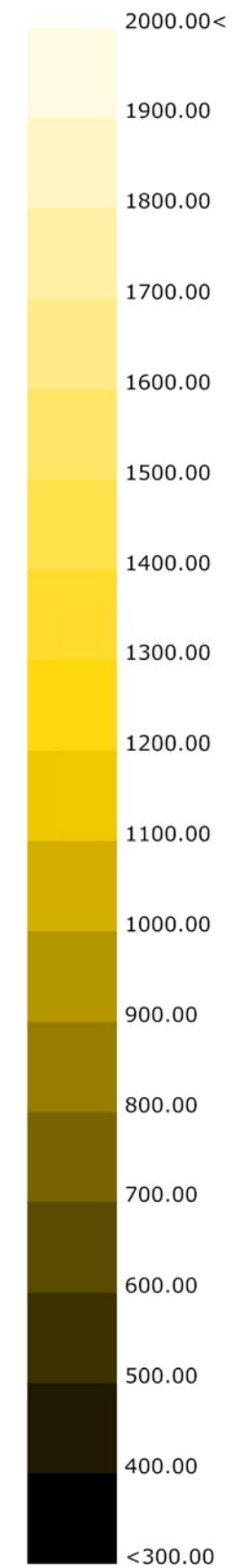
Kitchen

Light index: 65.0

MM/DD/HH: 062115

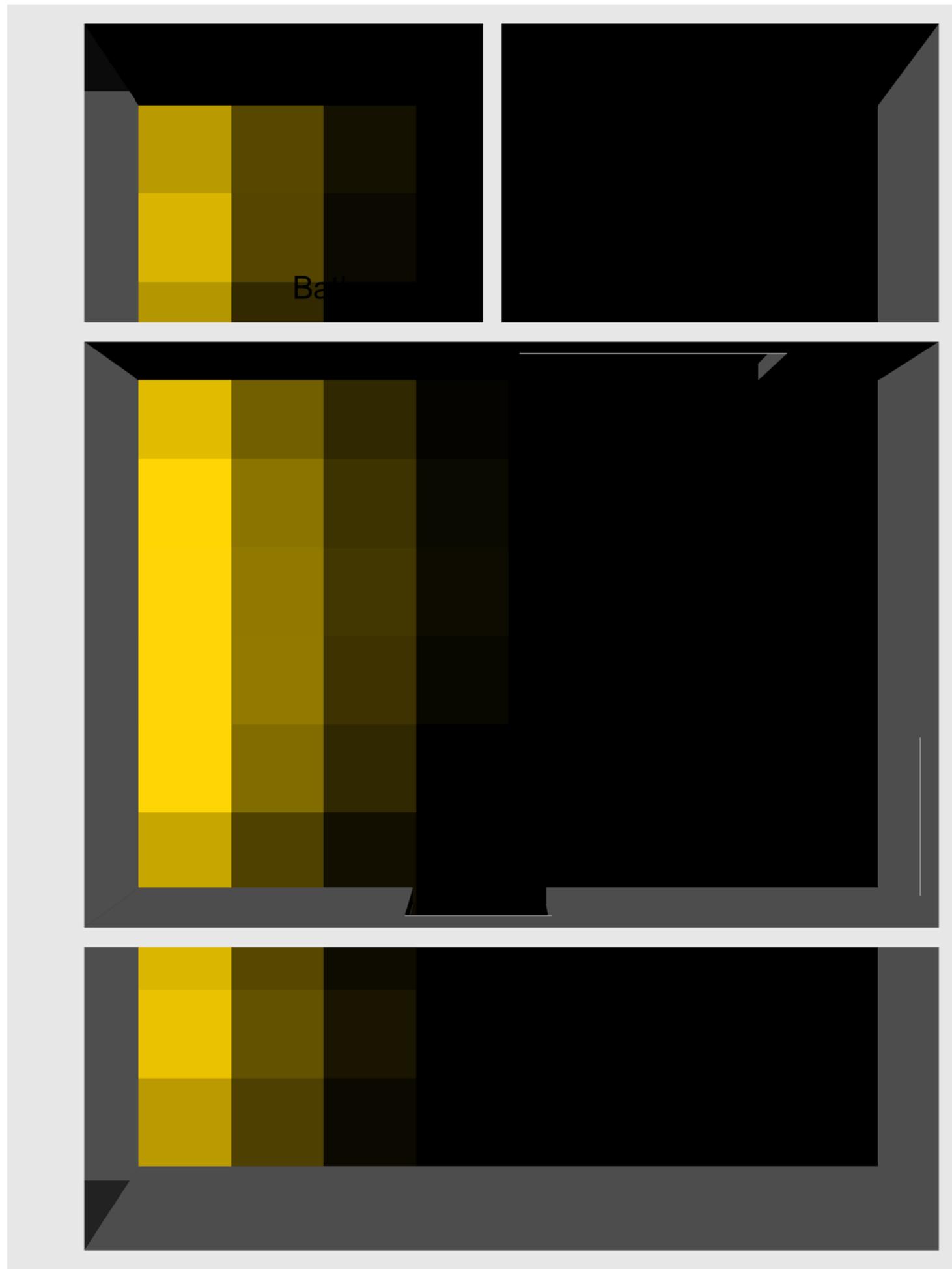
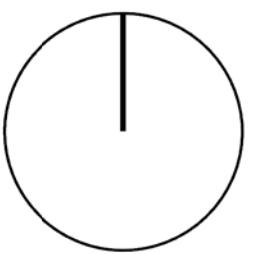


Illumination in lux

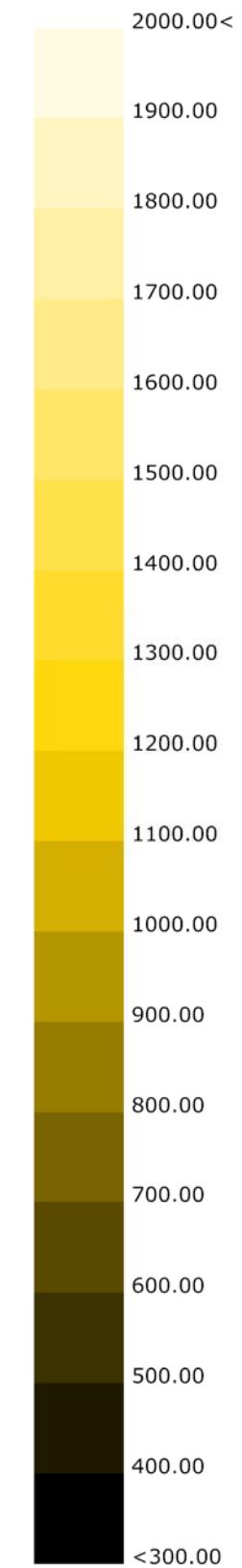


Light index:56.0

MM/DD/HH: 122109

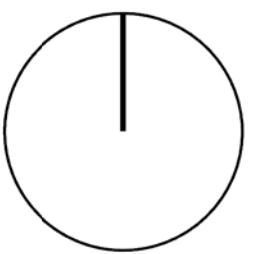


Illumination in lux



Bathroom

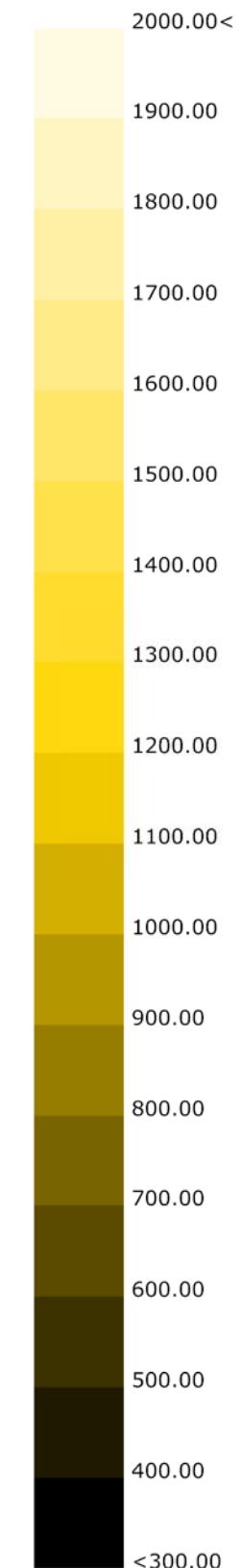
Living/Bed R



Light index:42.0

MM/DD/HH: 122112

Illumination in lux

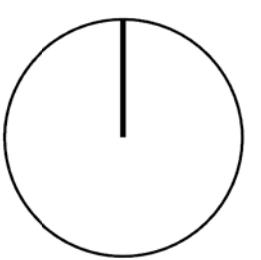


Bathroom

Closet

Living/Bed Room

Kitchen

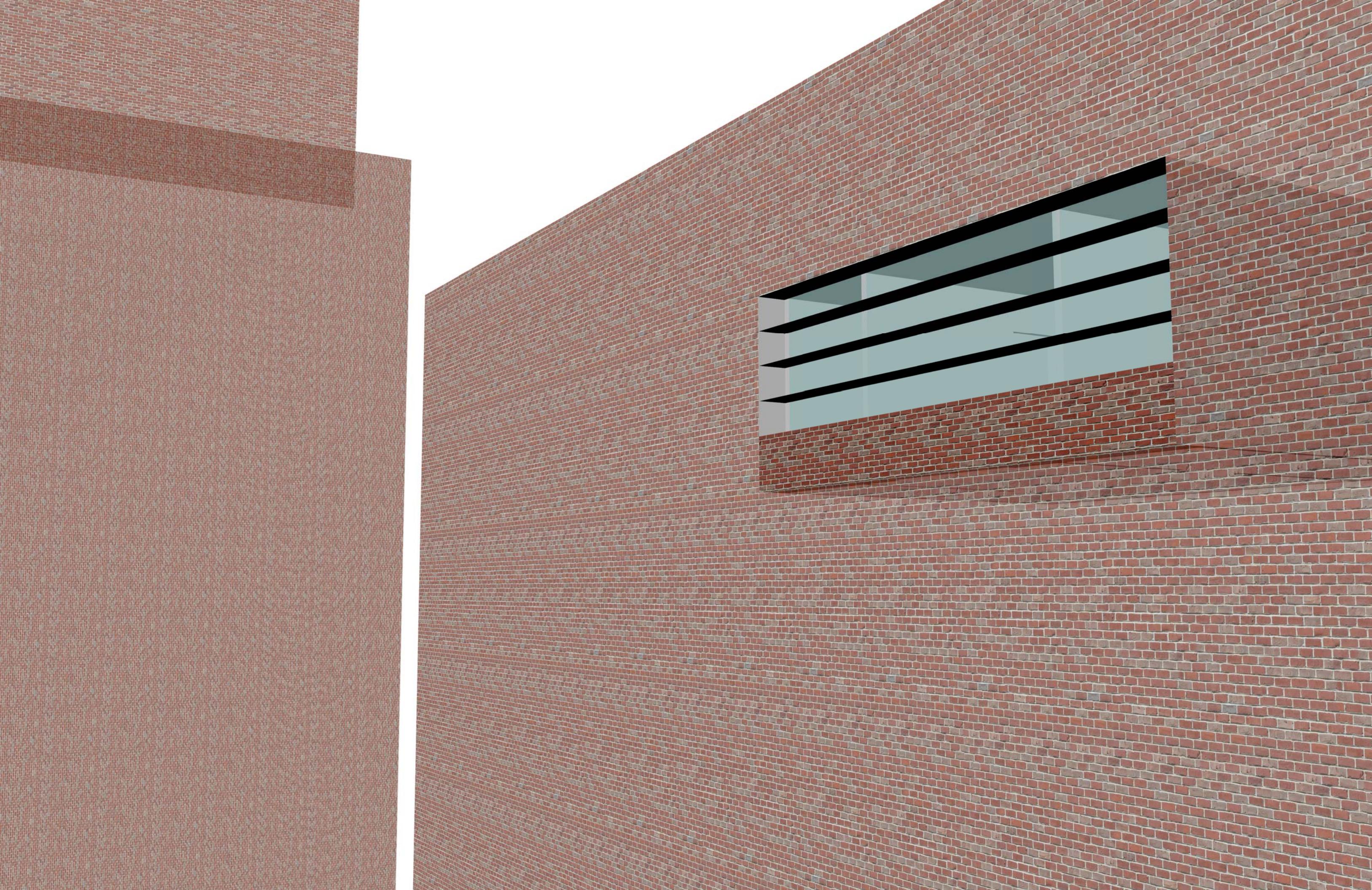


Light index:30.0

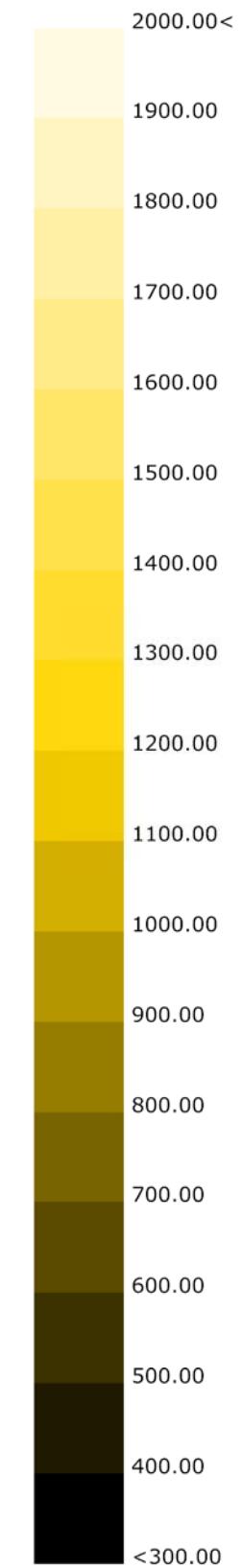
MM/DD/HH: 122115

Cumulative light index = 43+26+70+23+25+65+56+42+30 = 380

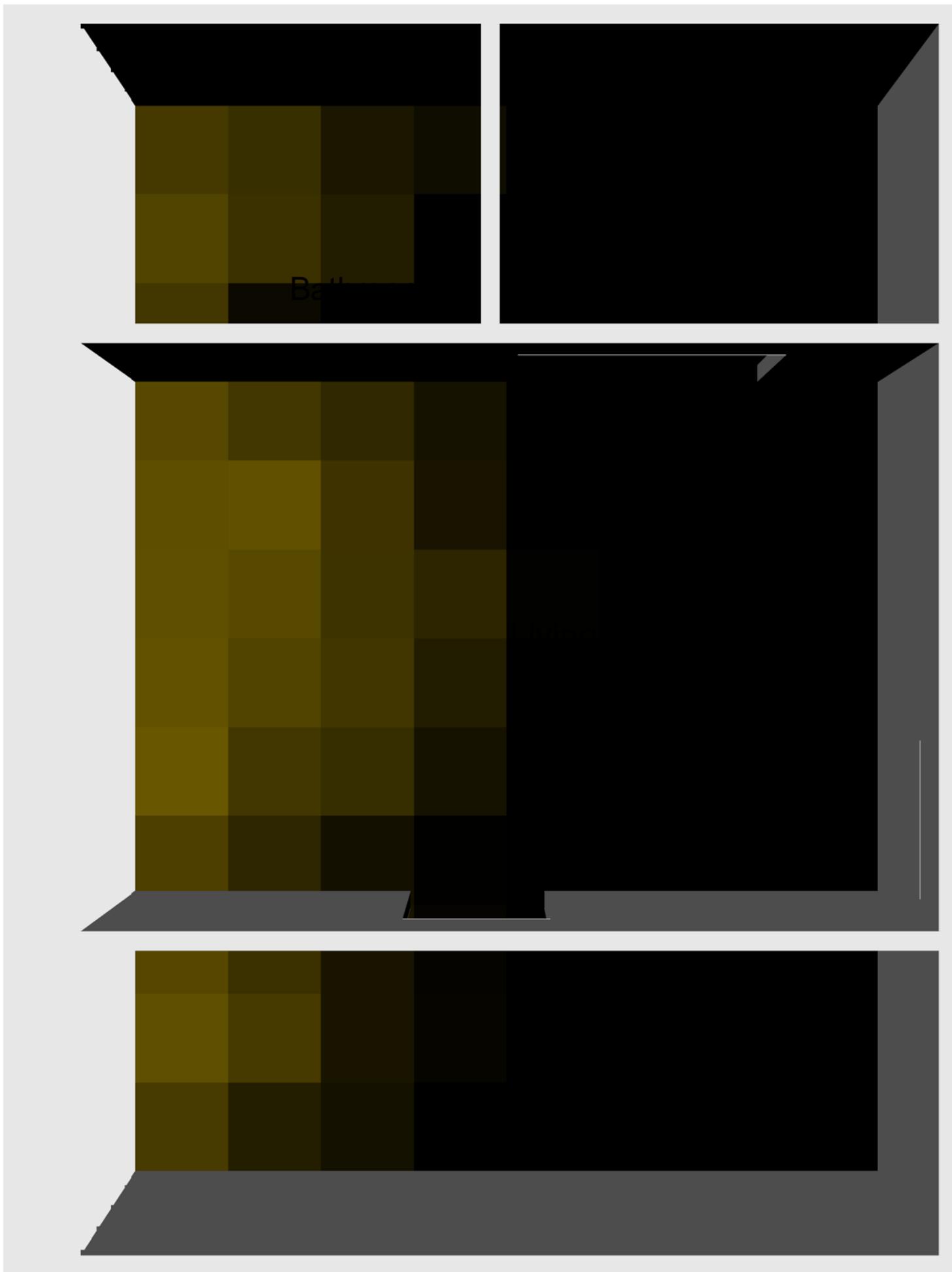
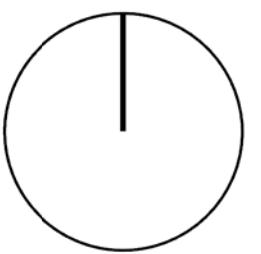
3. Horizontal shading



Illumination in lux



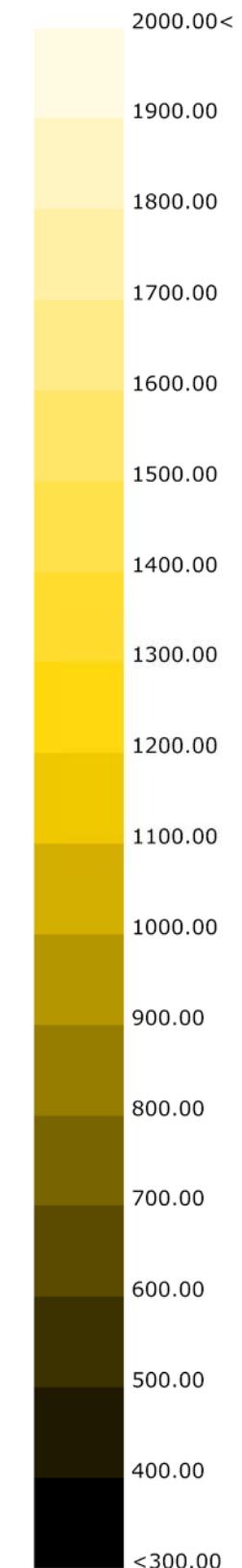
Bath



Light index:51.0

MM/DD/HH: 032109

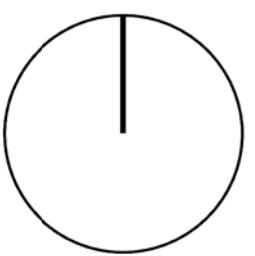
Illumination in lux



Bathroom

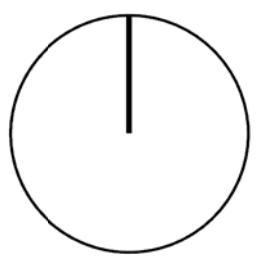
Living/Bed Room

Kitchen

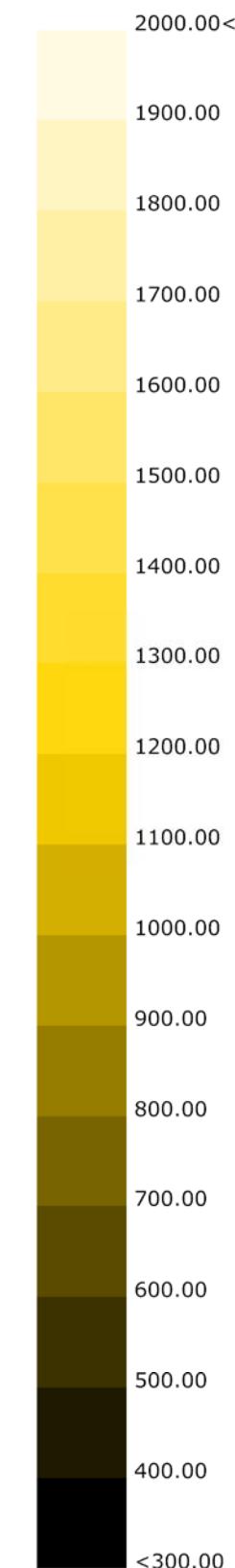


Light index:16.0

MM/DD/HH: 032112



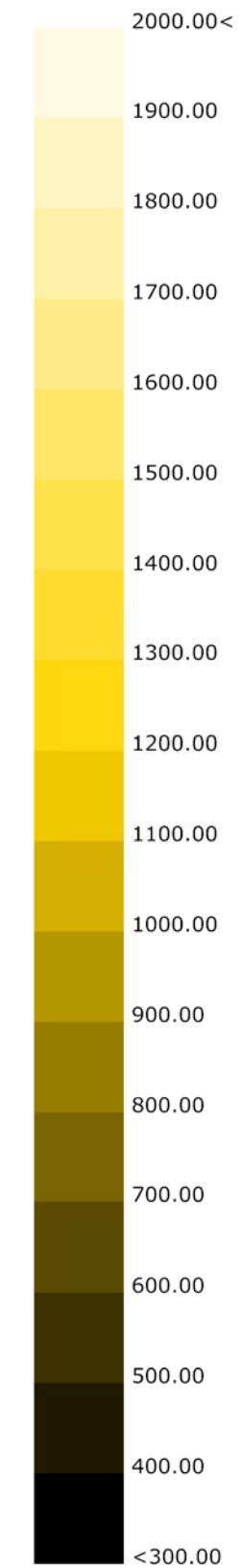
Illumination in lux



Light index:44.0

MM/DD/HH: 032115

Illumination in lux

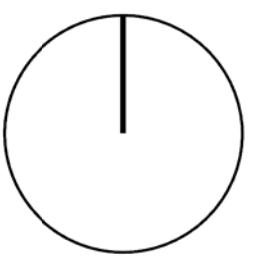


Bathroom

Closet

Living/Bed Room

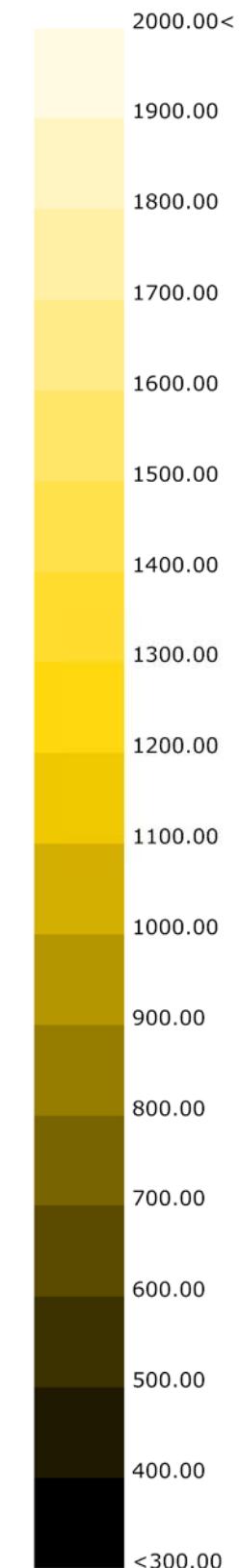
Kitchen



Light index:14.0

MM/DD/HH: 062109

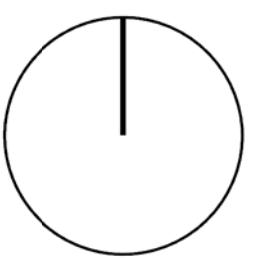
Illumination in lux



Bathroom

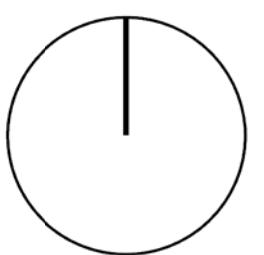
Living/Bed Room

Kitchen

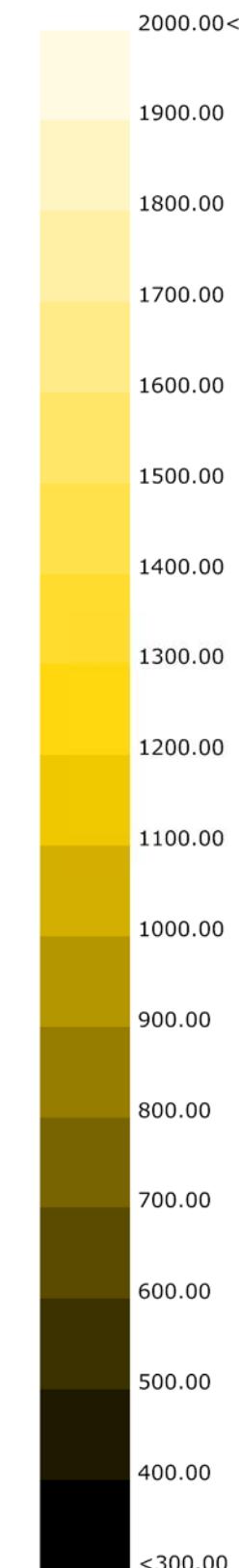


Light index: 17.0

MM/DD/HH: 062112

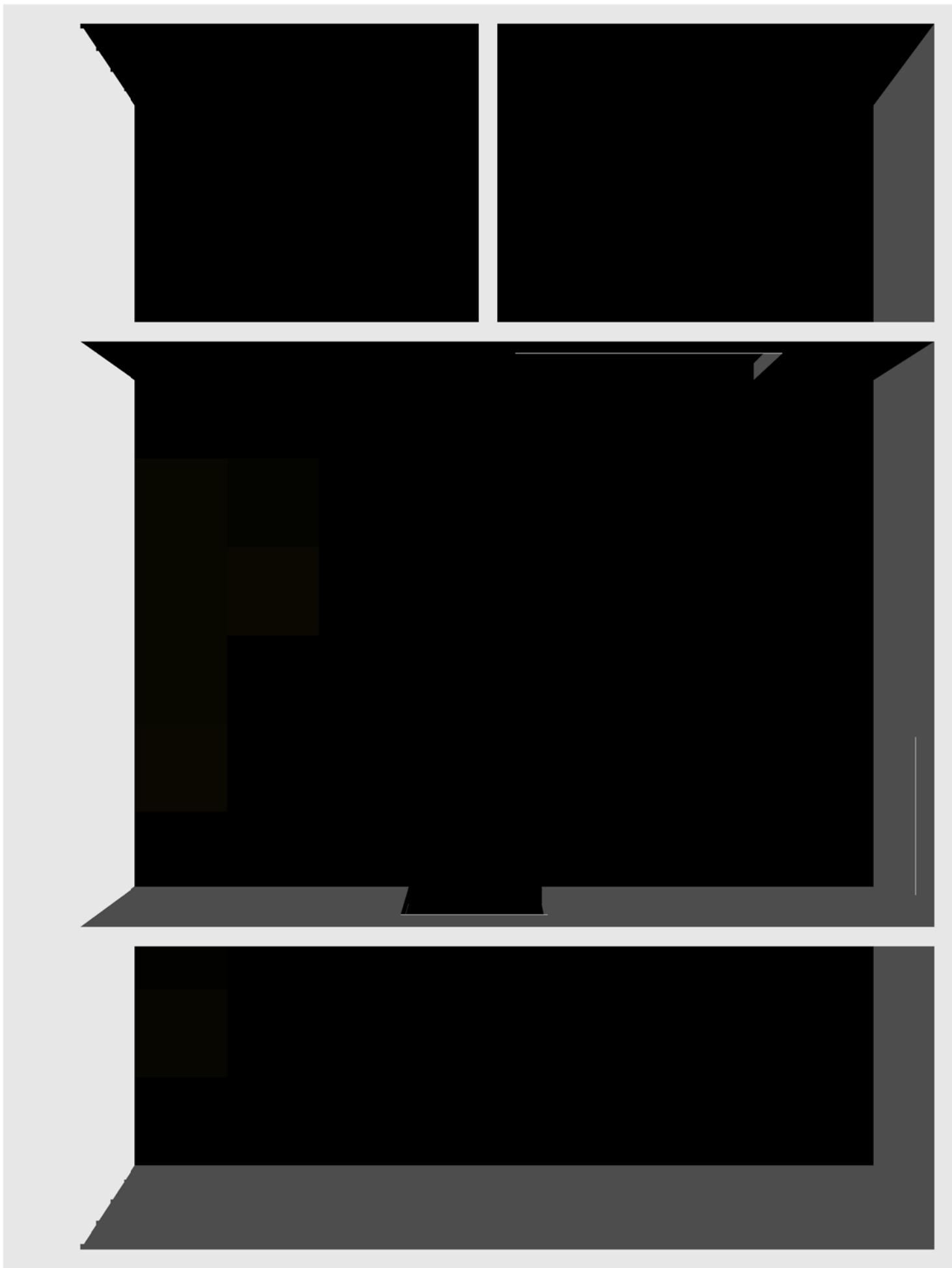
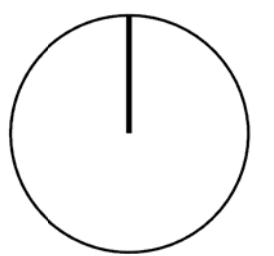


Illumination in lux

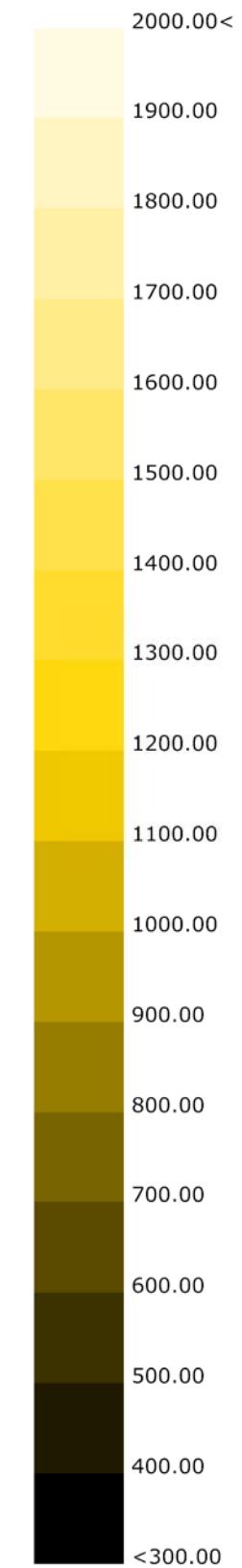


Light index: 37.0

MM/DD/HH: 062115

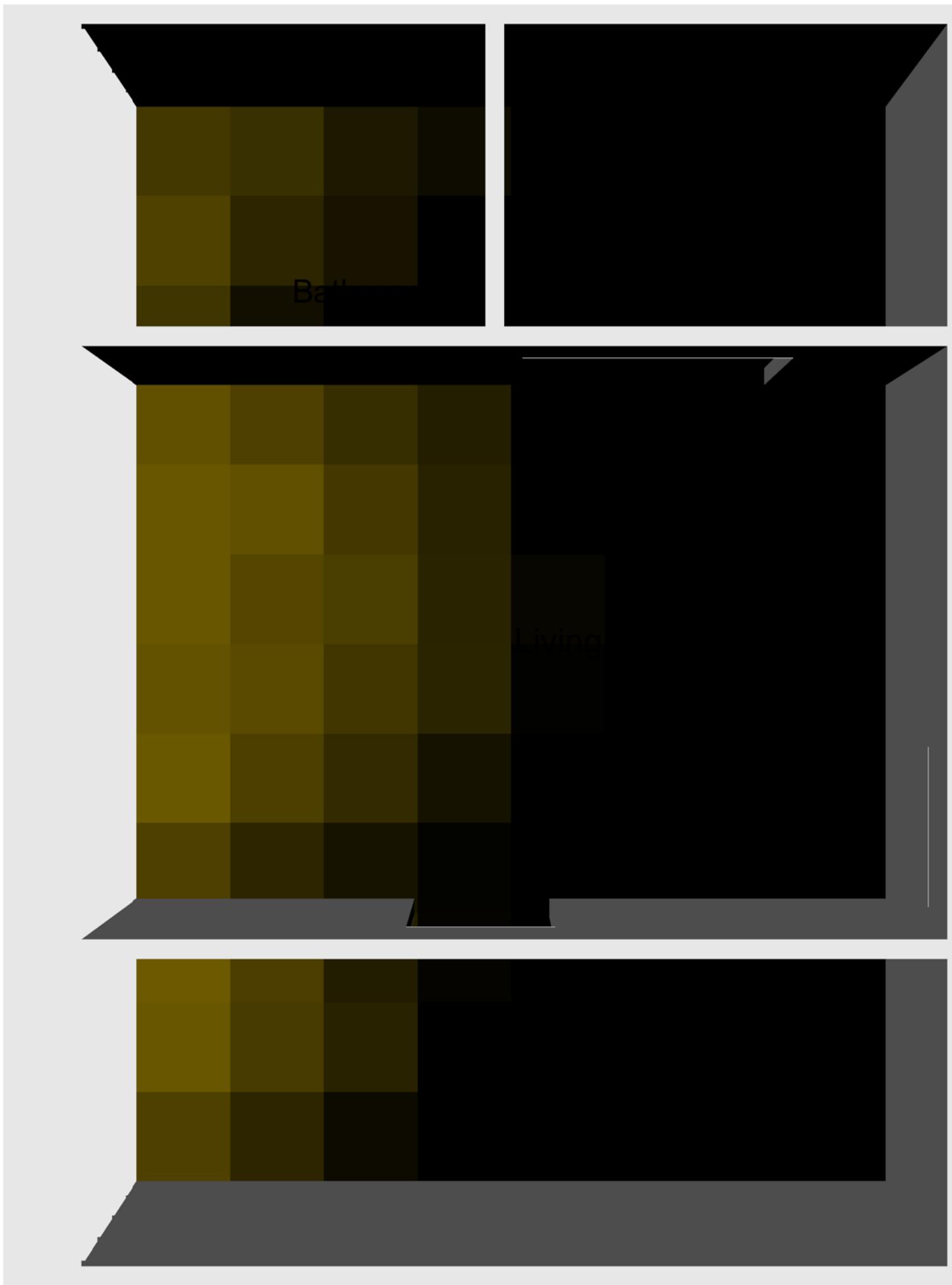
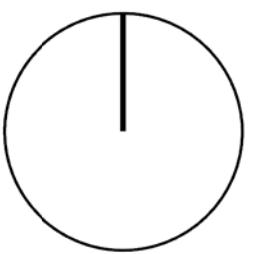


Illumination in lux



Bath

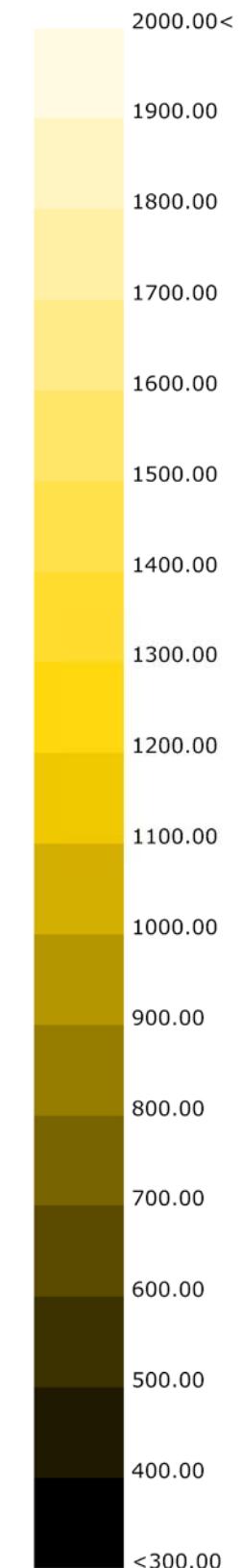
Living



Light index: 51.0

MM/DD/HH: 122112

Illumination in lux

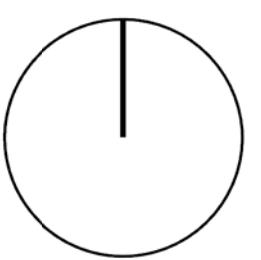


Bathroom

Closet

Living/Bed Room

Kitchen

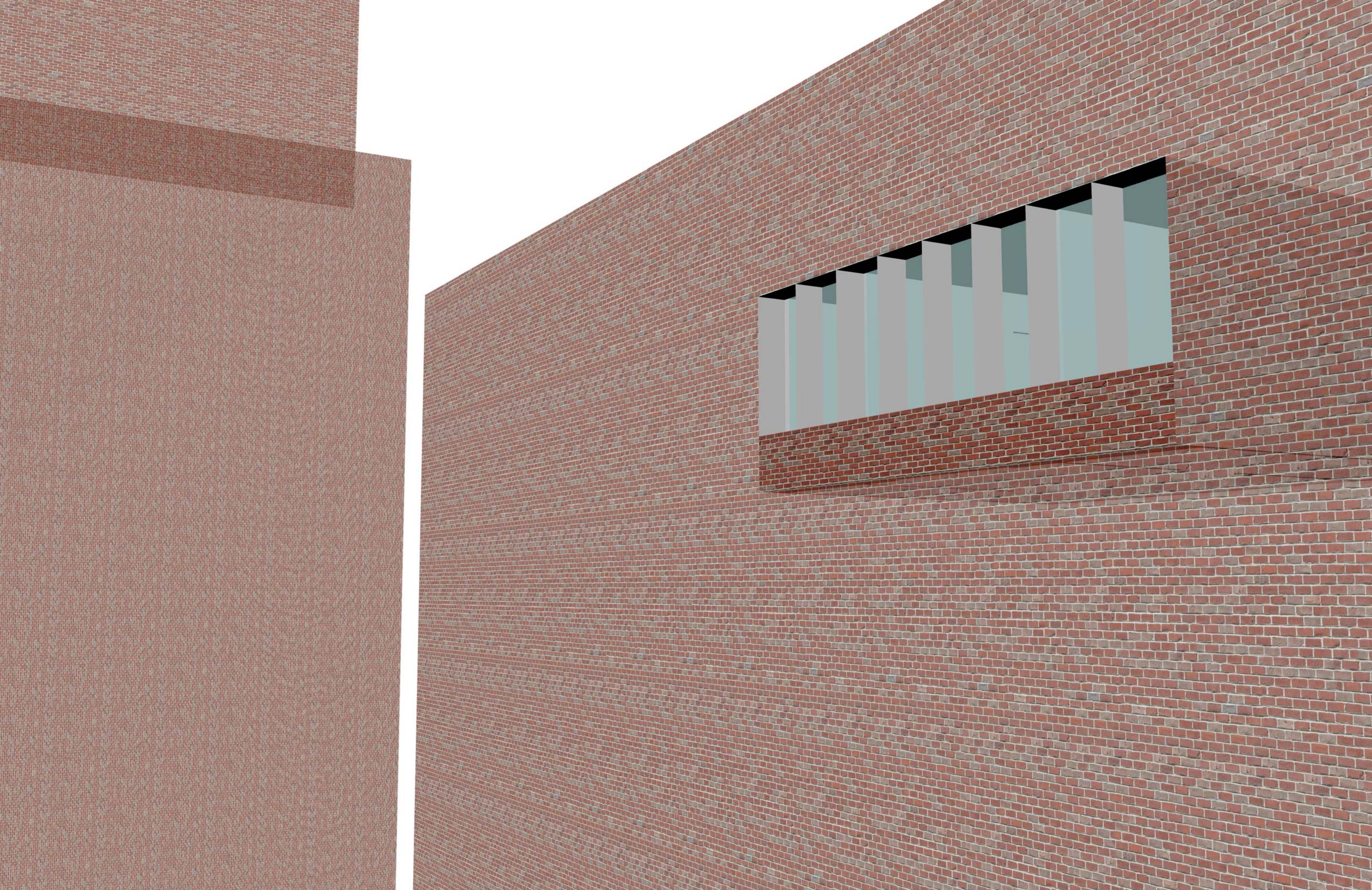


Light index:27.0

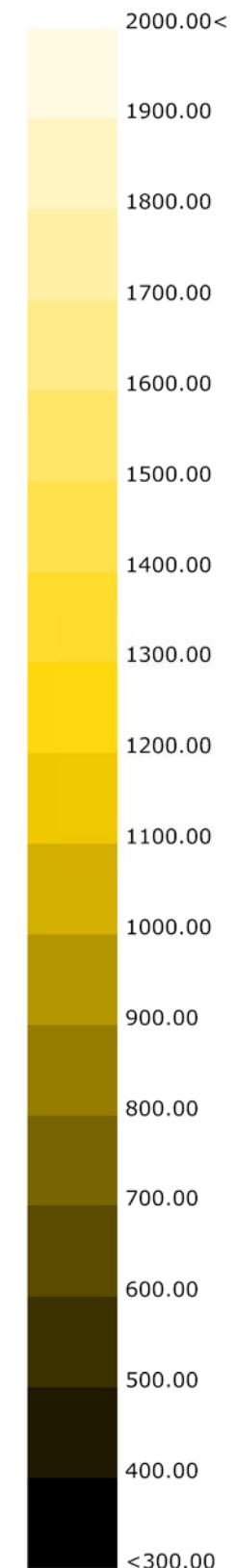
MM/DD/HH: 122115

Cumulative light index = 51+16+44+14+17+37+88+51+27 = 345

4. Vertical shading

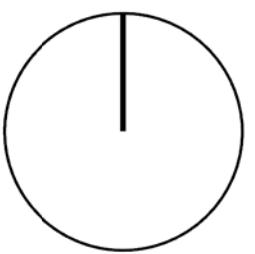


Illumination in lux



Bathroom

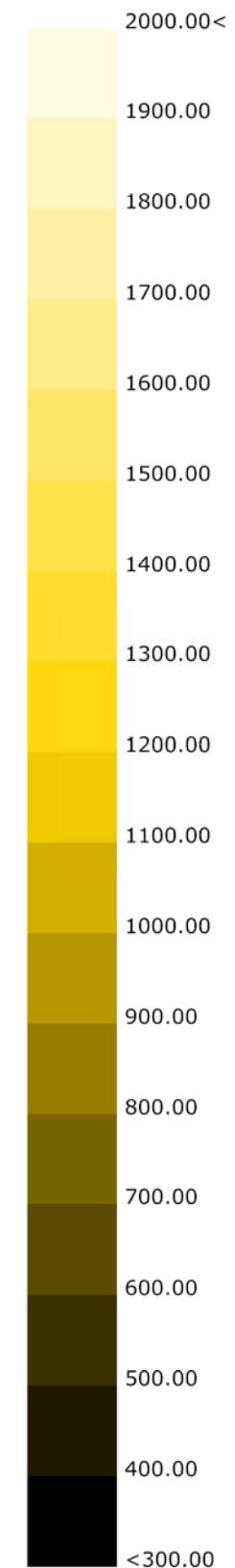
Living



Light index:43.0

MM/DD/HH: 032109

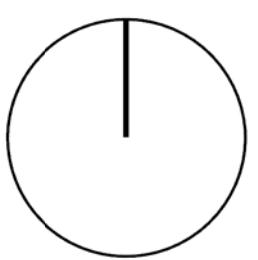
Illumination in lux



Bathroom

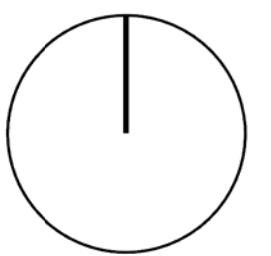
Living/Bed Room

Kitchen



Light index:14.0

MM/DD/HH: 032112



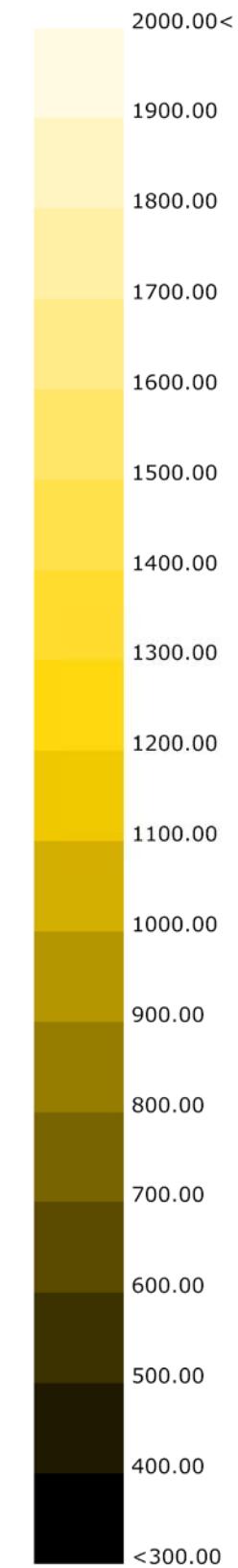
Illumination in lux

2000.00<
1900.00
1800.00
1700.00
1600.00
1500.00
1400.00
1300.00
1200.00
1100.00
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
<300.00

Light index: 57.0

MM/DD/HH: 032115

Illumination in lux

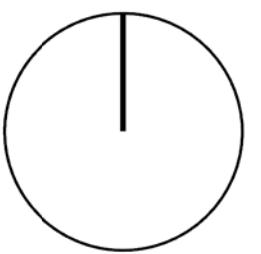


Bathroom

Closet

Living/Bed Room

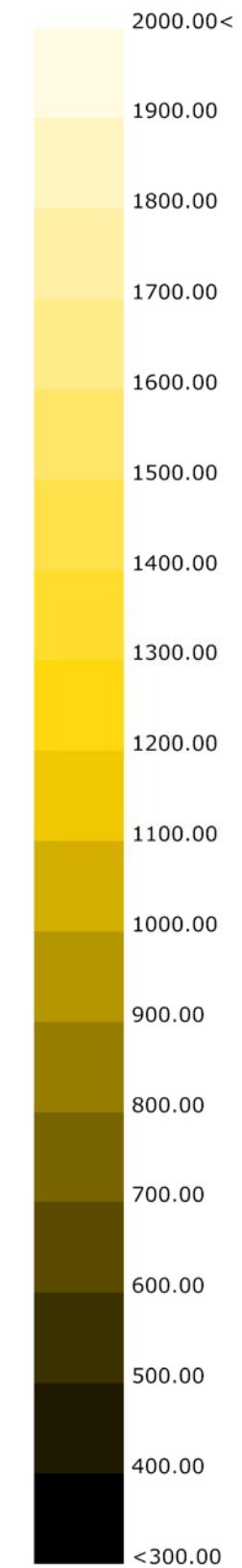
Kitchen



Light index: 17.0

MM/DD/HH: 062109

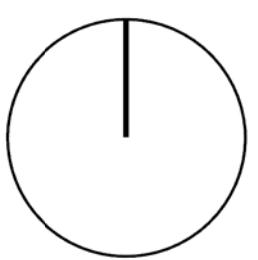
Illumination in lux



Bathroom

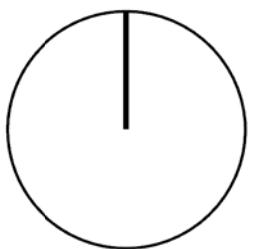
Living/Bed Room

Kitchen



Light index:21.0

MM/DD/HH: 062112



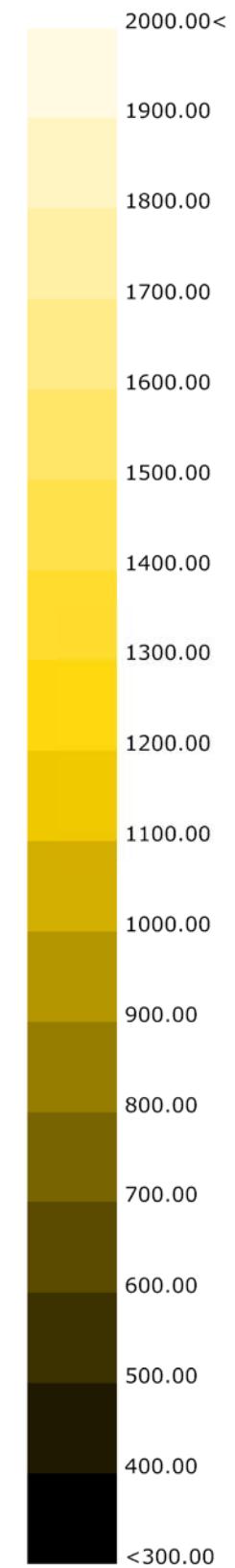
Illumination in lux

2000.00<
1900.00
1800.00
1700.00
1600.00
1500.00
1400.00
1300.00
1200.00
1100.00
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
<300.00

Light index: 59.0

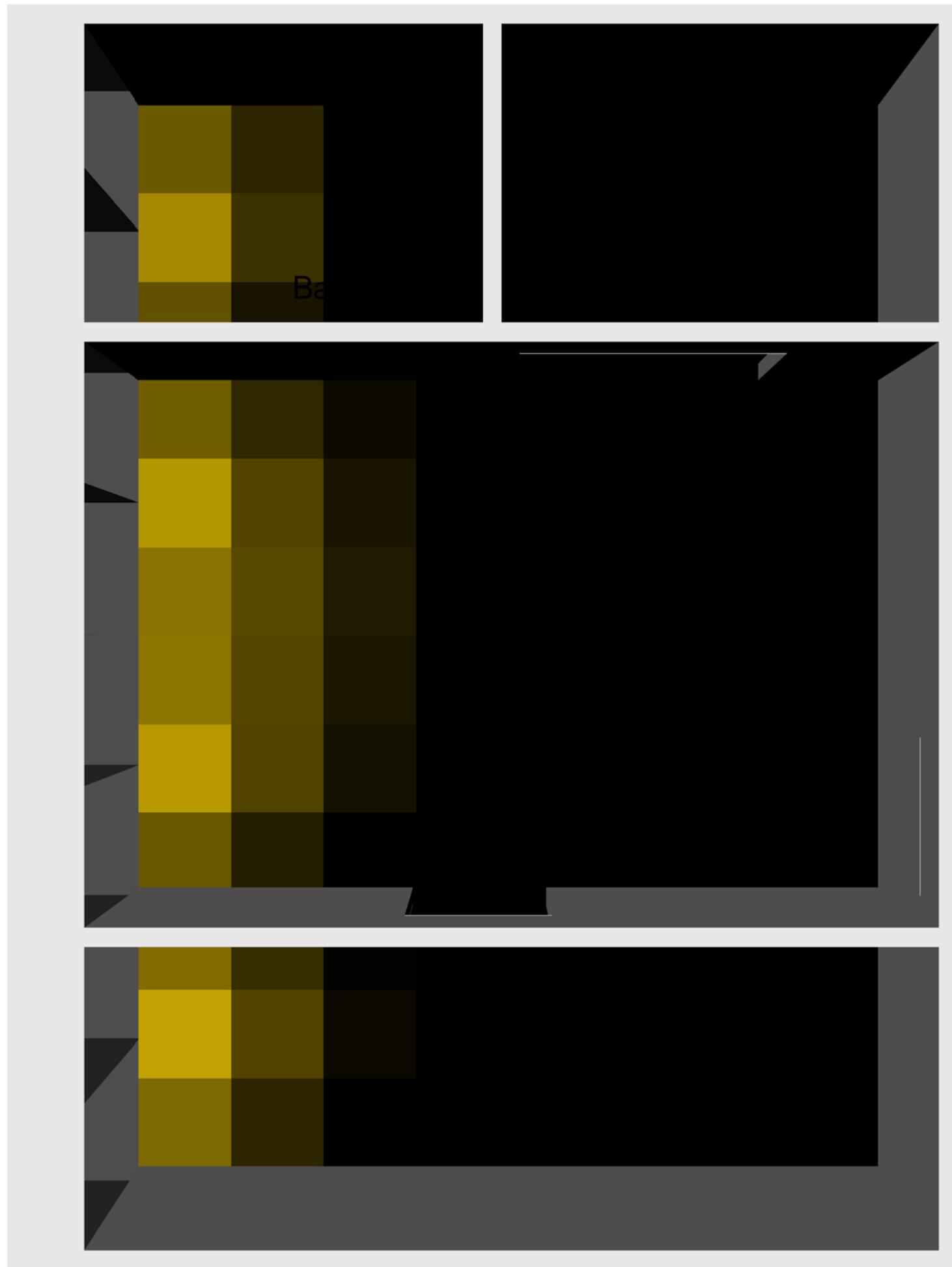
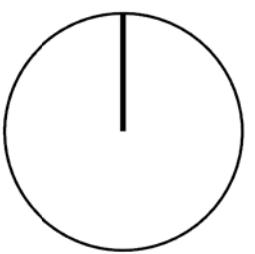
MM/DD/HH: 062115

Illumination in lux

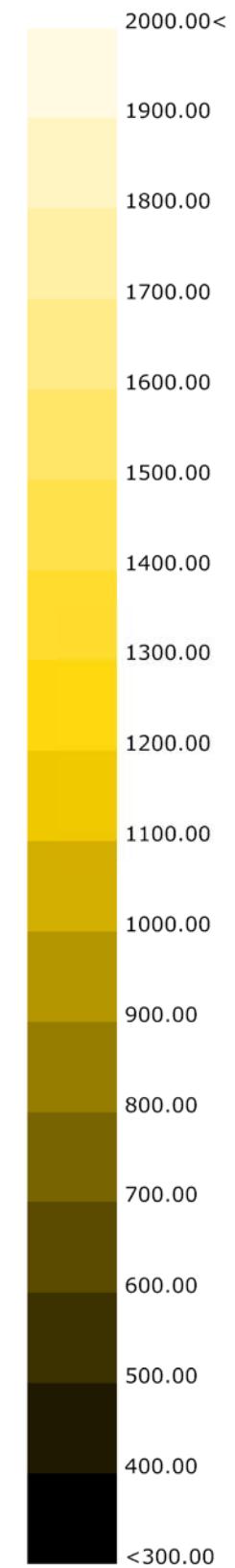


Light index:65.0

MM/DD/HH: 122109

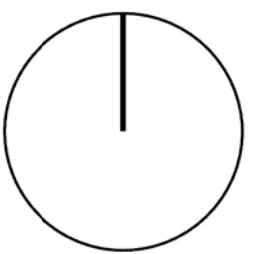


Illumination in lux



Bathroom

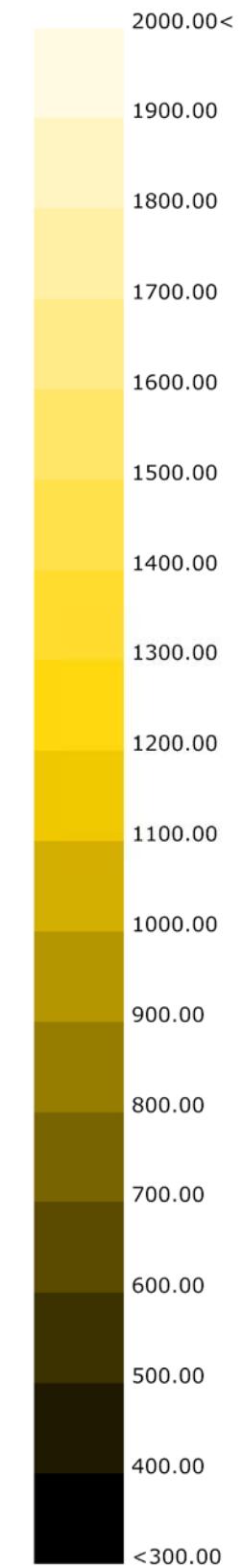
Living



Light index:42.0

MM/DD/HH: 122112

Illumination in lux

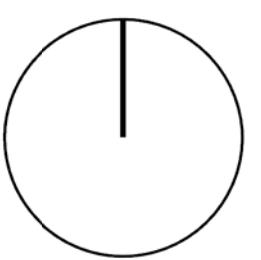


Bathroom

Closet

Living/Bed Room

Kitchen

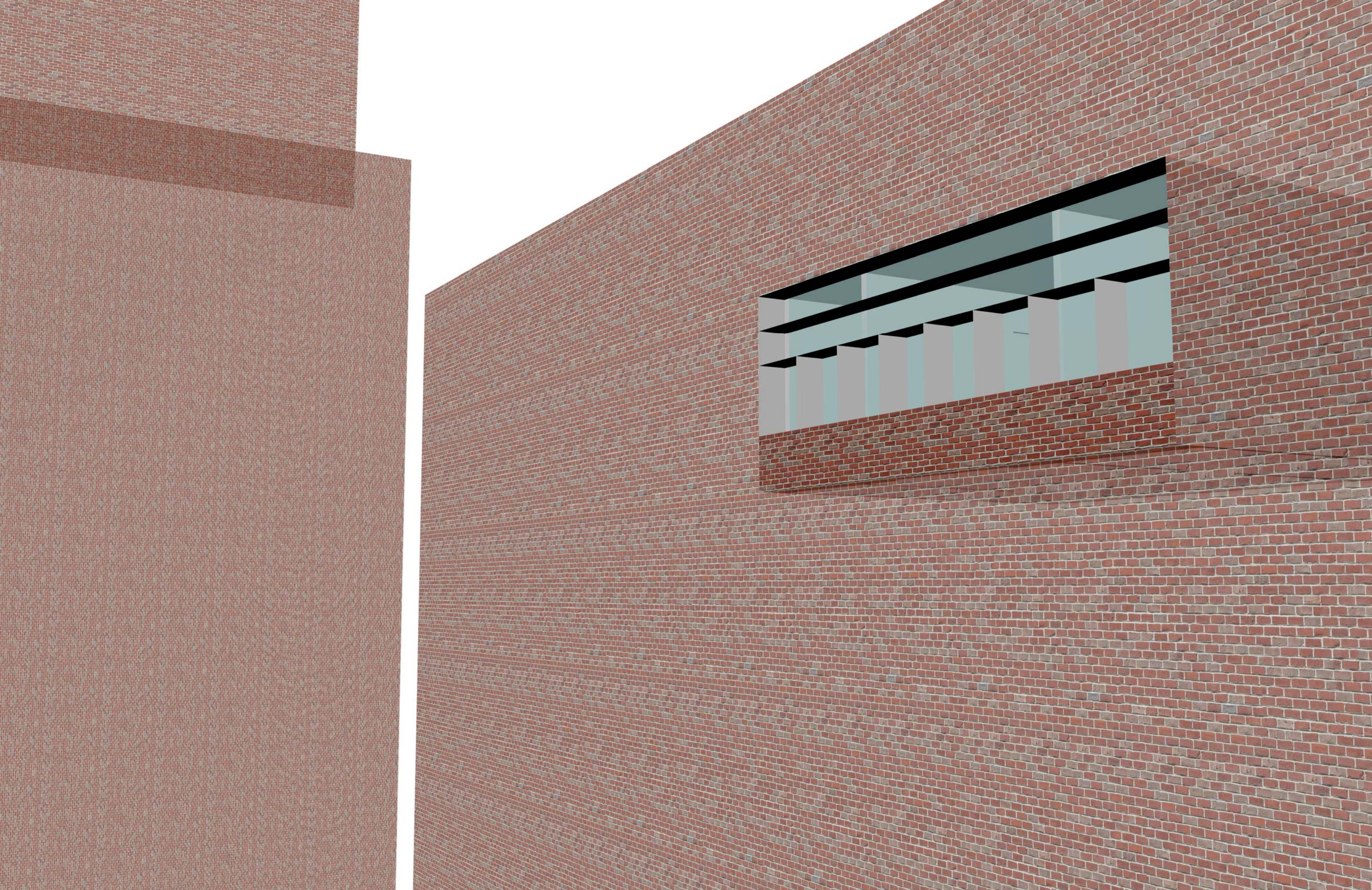


Light index:25.0

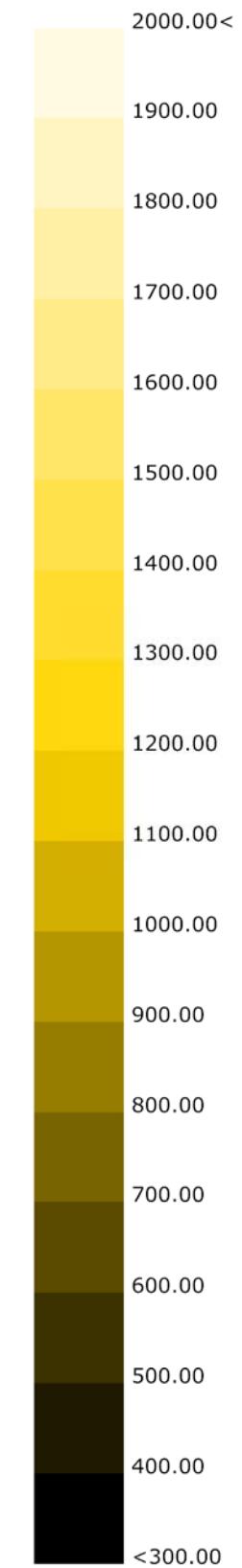
MM/DD/HH: 122115

Cumulative light index = 43+14+57+17+21+59+65+42+25 = 343

5. Horizontal + vertical shading

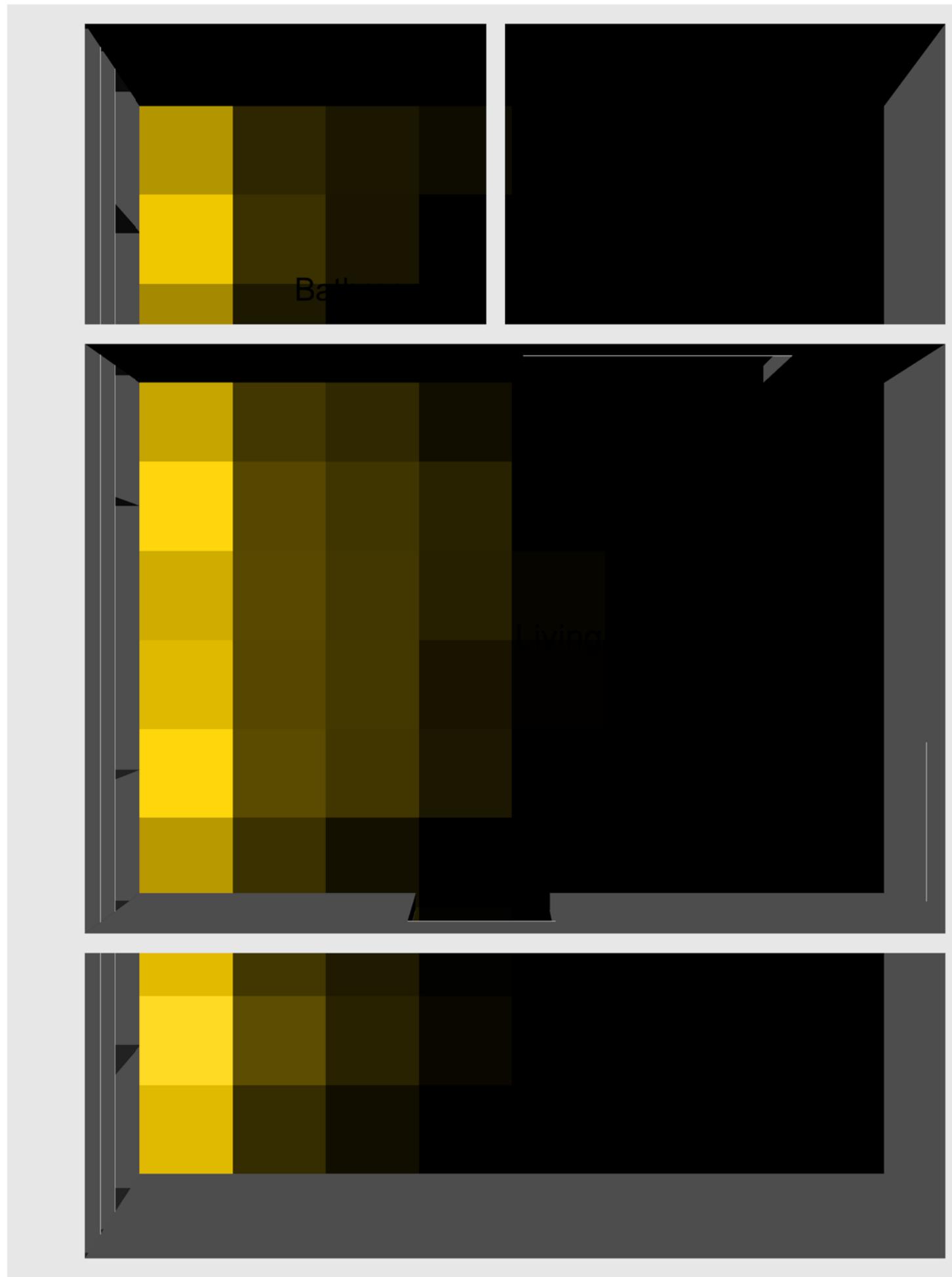
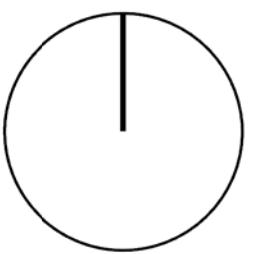


Illumination in lux



Bath

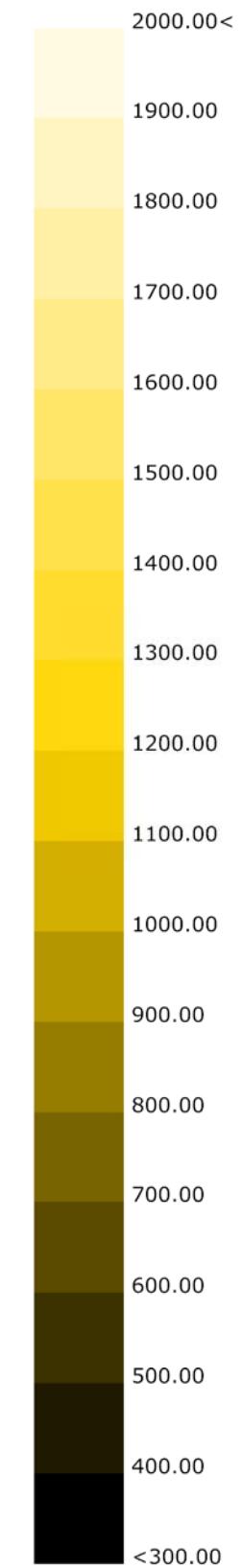
Living



Light index: 51.0

MM/DD/HH: 032109

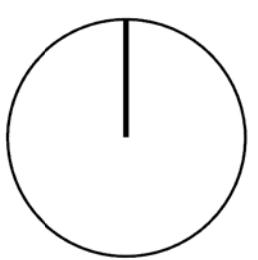
Illumination in lux



Bathroom

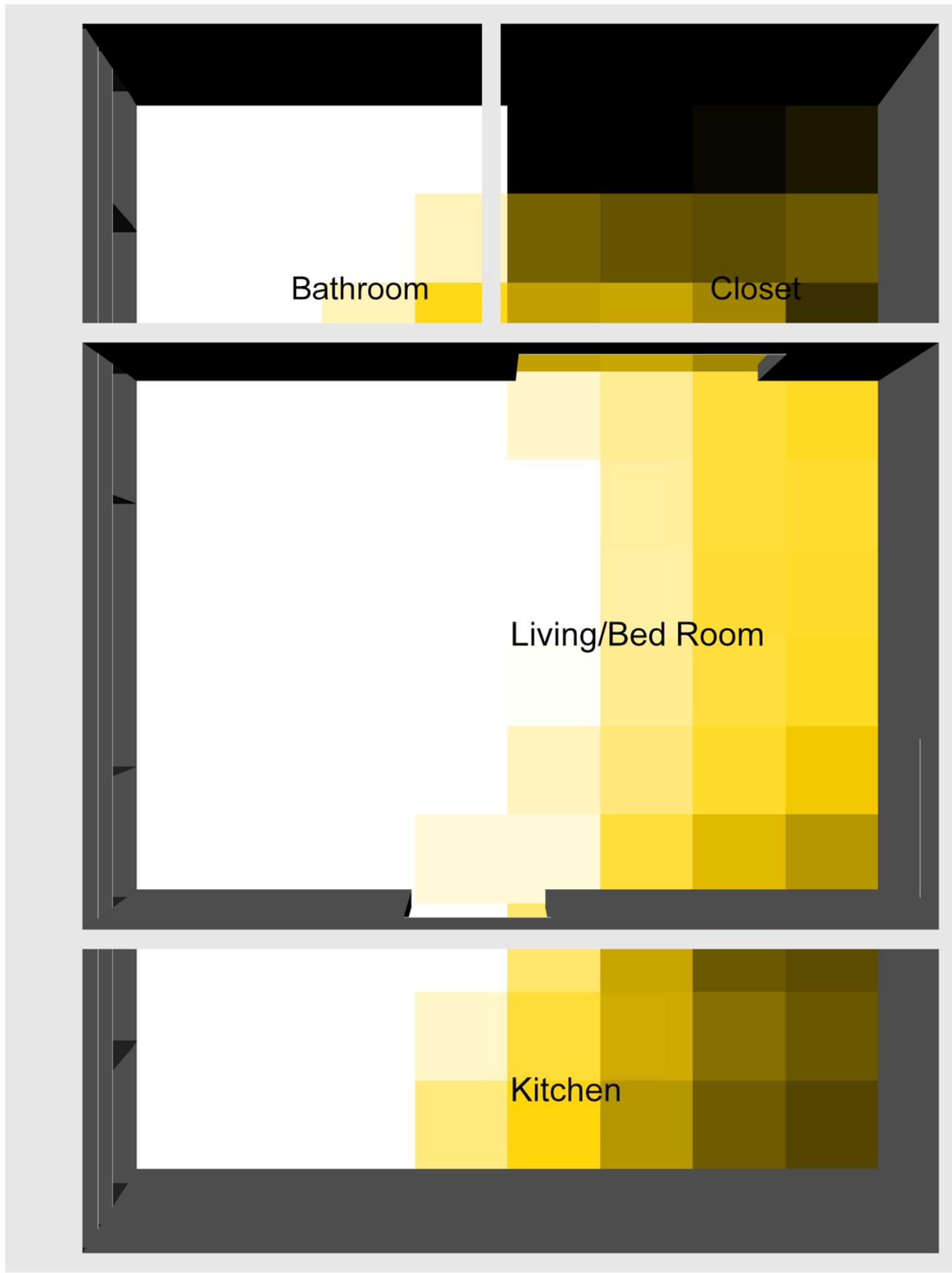
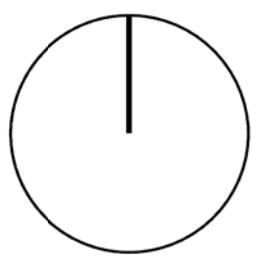
Living/Bed Room

Kitchen

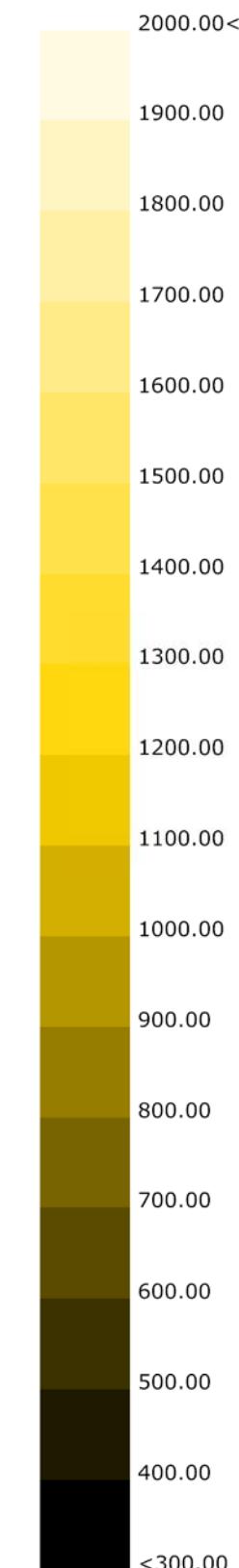


Light index:15.0

MM/DD/HH: 032112



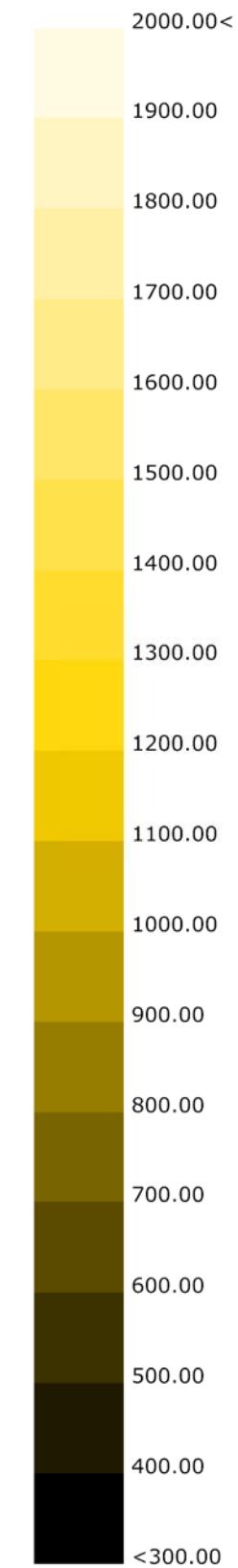
Illumination in lux



Light index: 46.0

MM/DD/HH: 032115

Illumination in lux

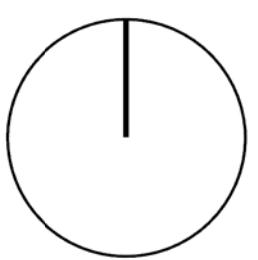


Bathroom

Closet

Living/Bed Room

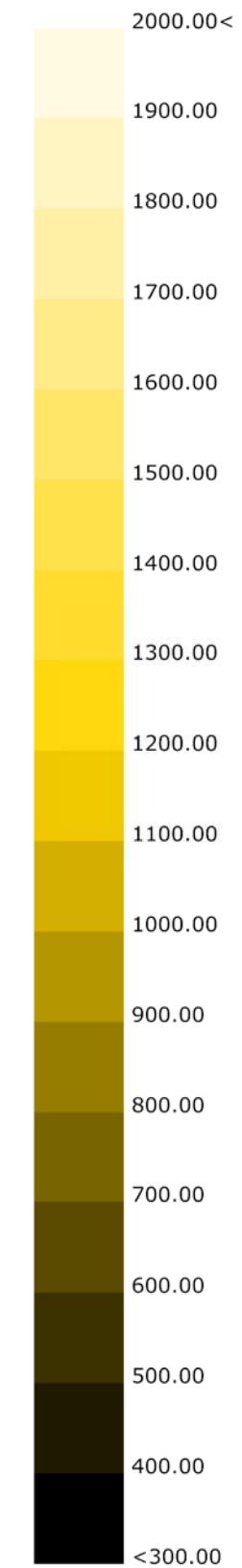
Kitchen



Light index: 15.0

MM/DD/HH: 062109

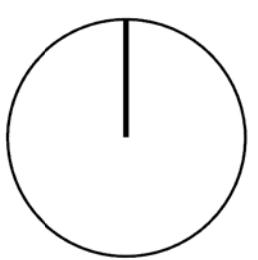
Illumination in lux



Bathroom

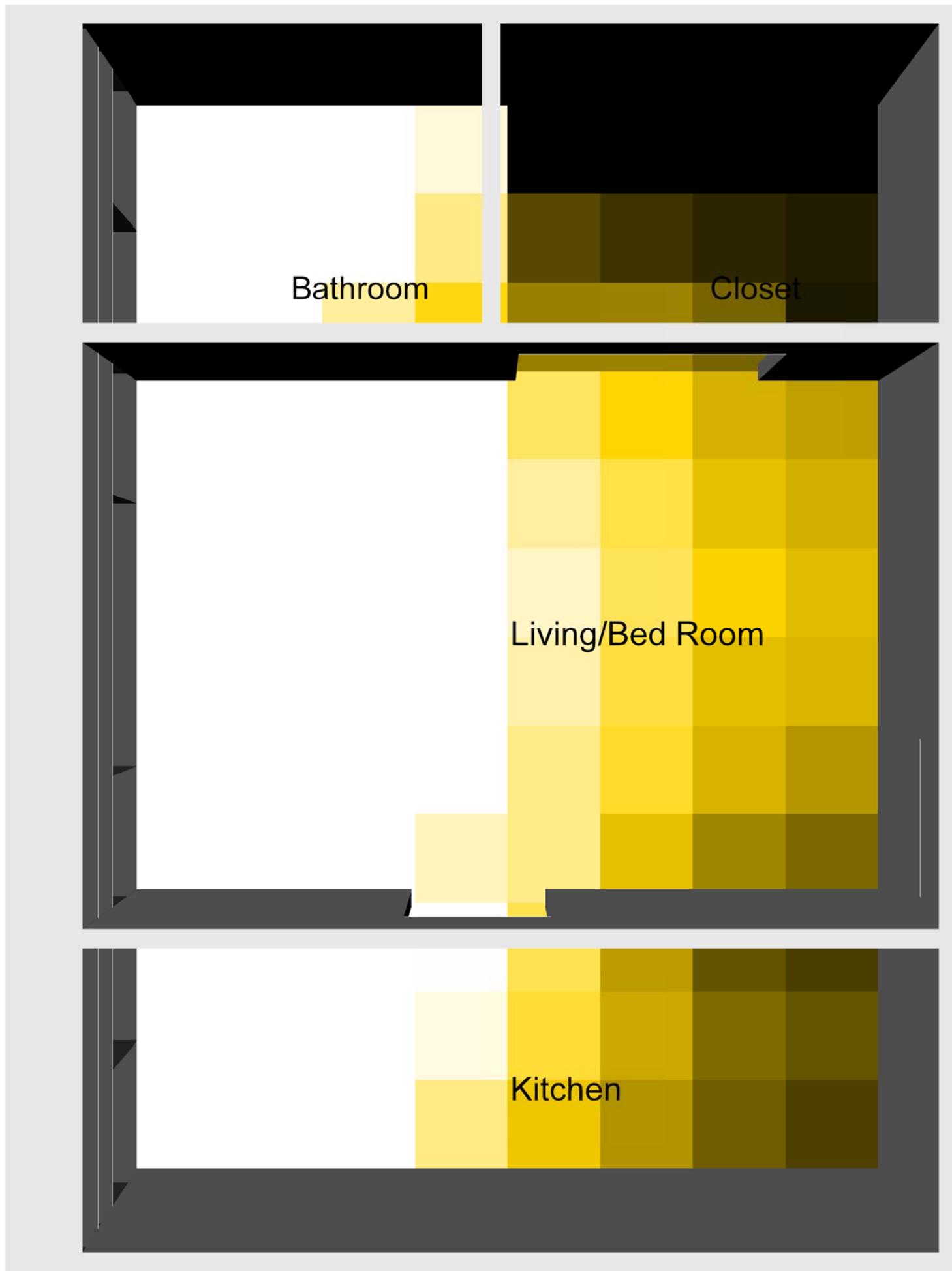
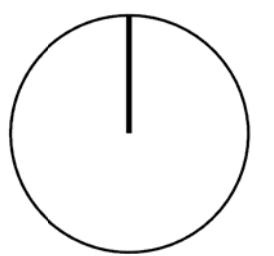
Living/Bed Room

Kitchen

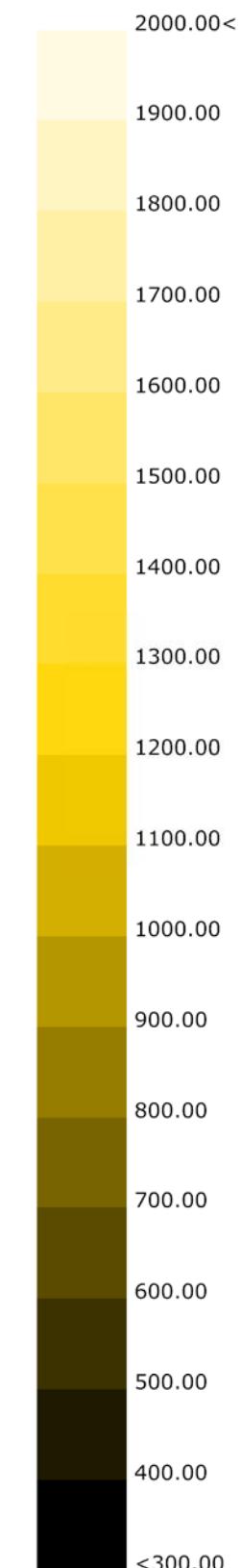


Light index: 17.0

MM/DD/HH: 062112



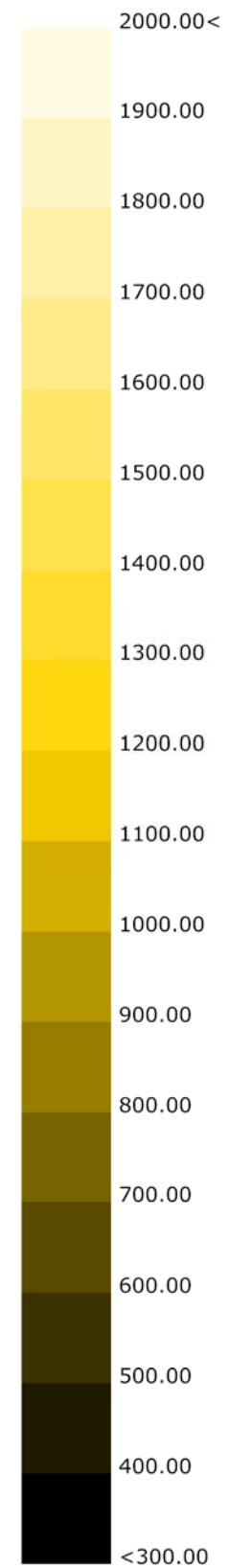
Illumination in lux



Light index:44.0

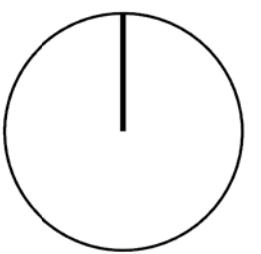
MM/DD/HH: 062115

Illumination in lux

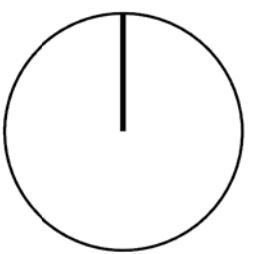
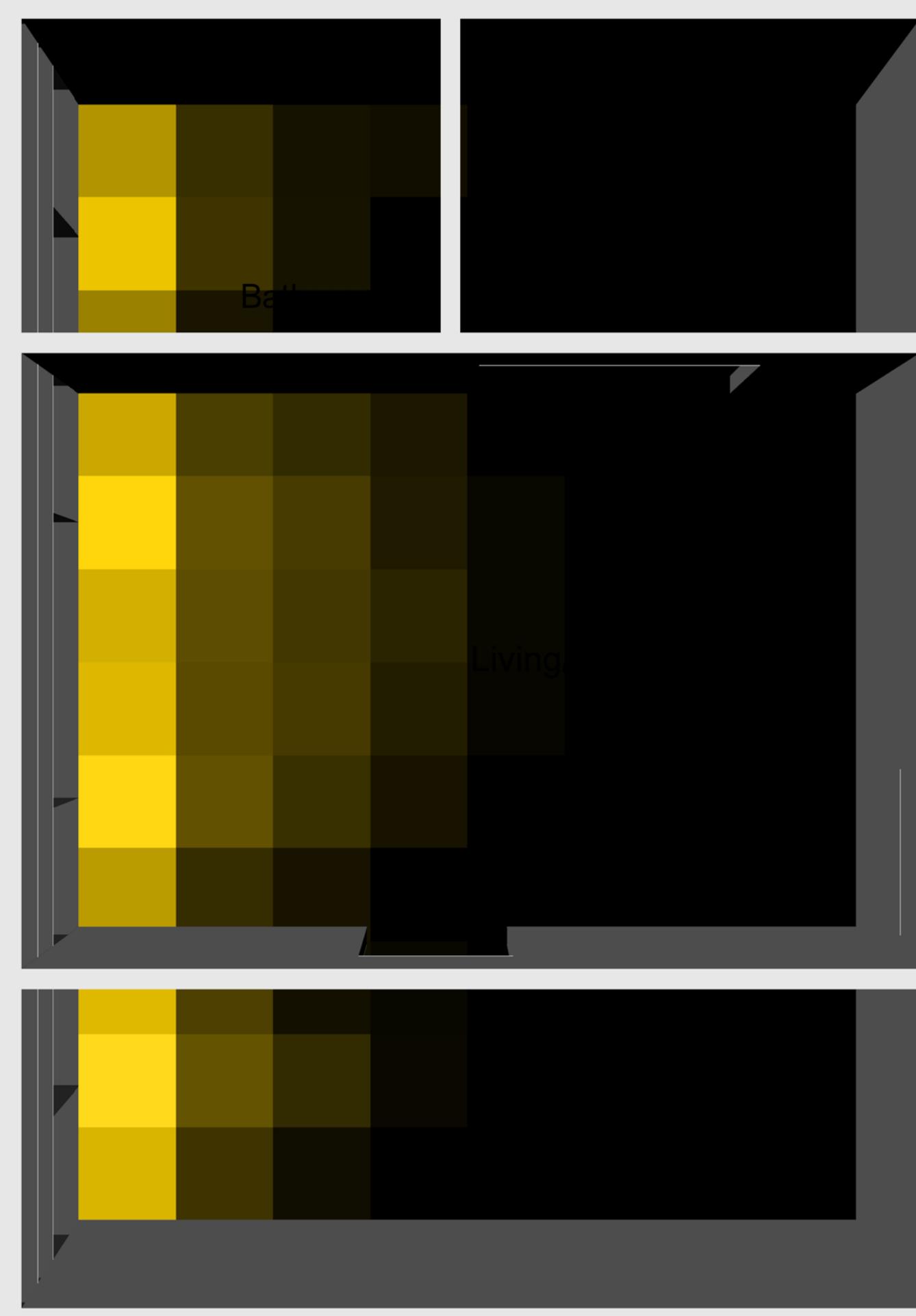
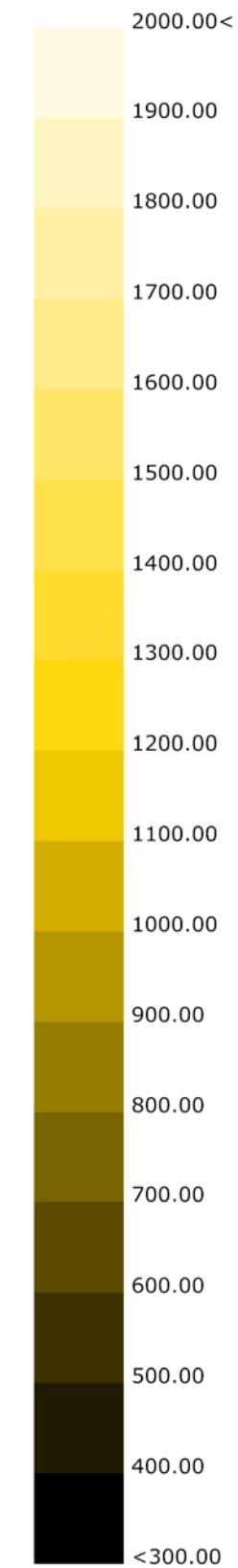


Light index: 79.0

MM/DD/HH: 122109



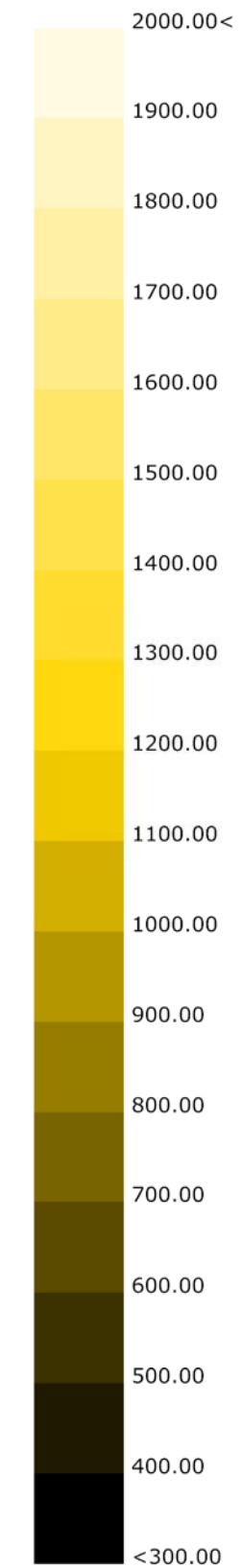
Illumination in lux



Light index:49.0

MM/DD/HH: 122112

Illumination in lux

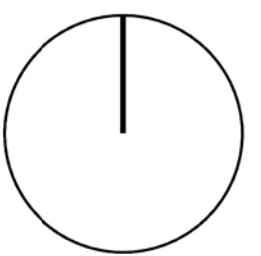


Bathroom

Closet

Living/Bed Room

Kitchen

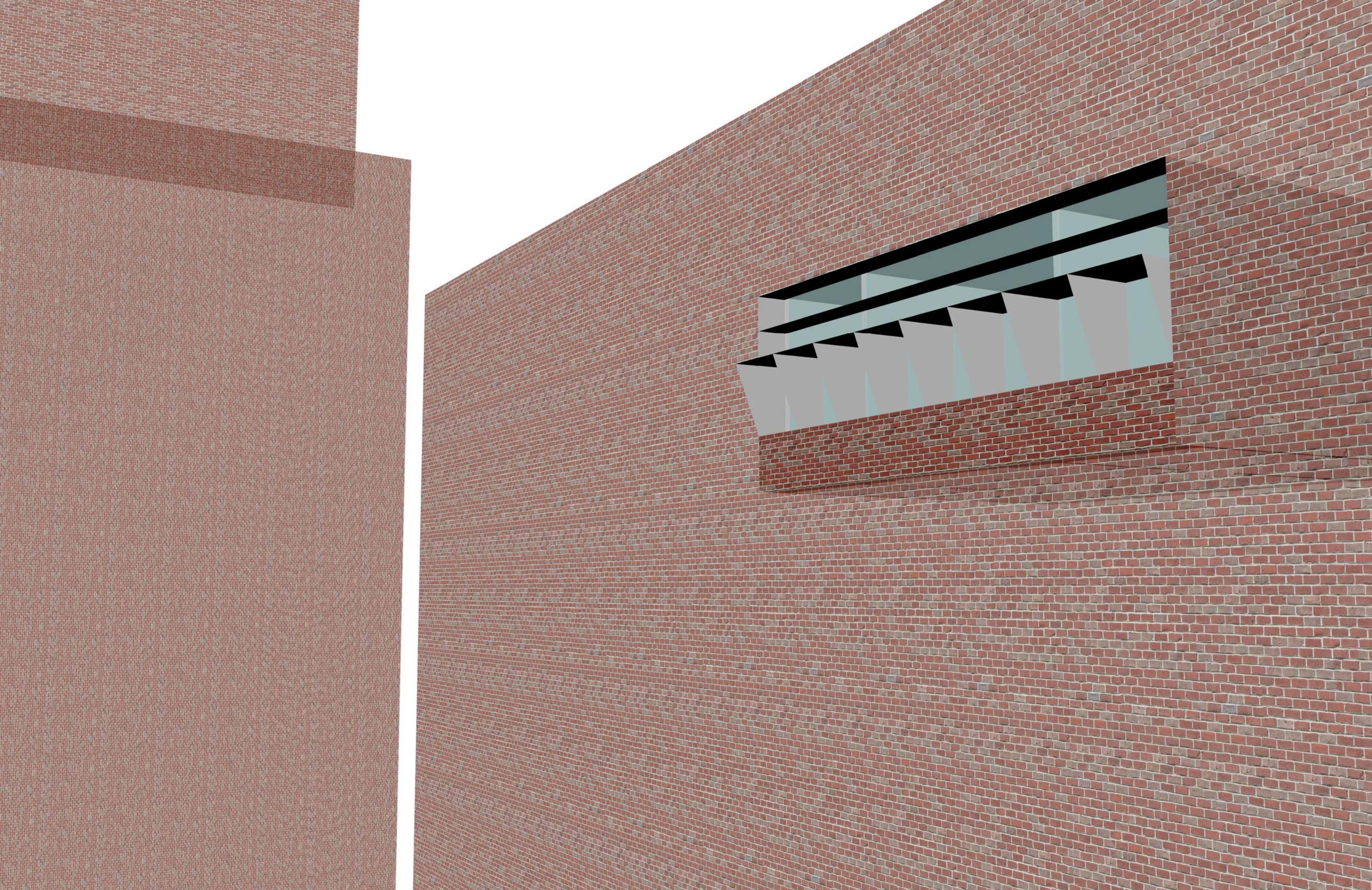


Light index:24.0

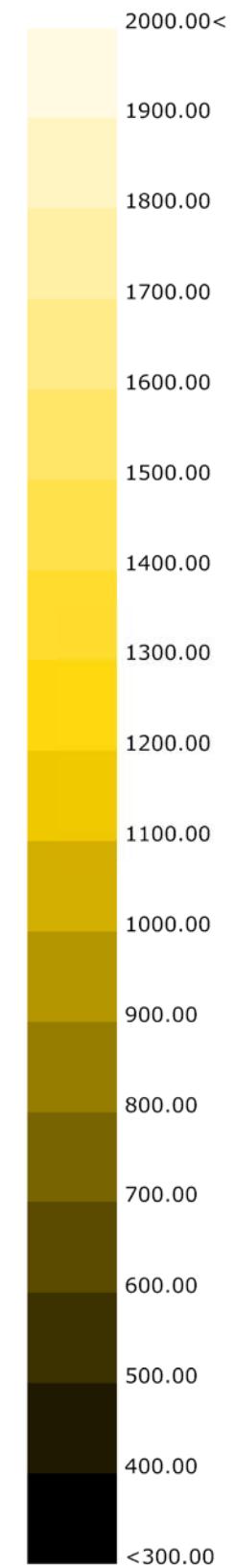
MM/DD/HH: 122115

Cumulative light index = 51+15+46+15+17+44+79+49+24 = 340

6. Horizontal + vertical shading of varying depth

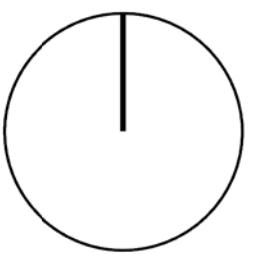


Illumination in lux

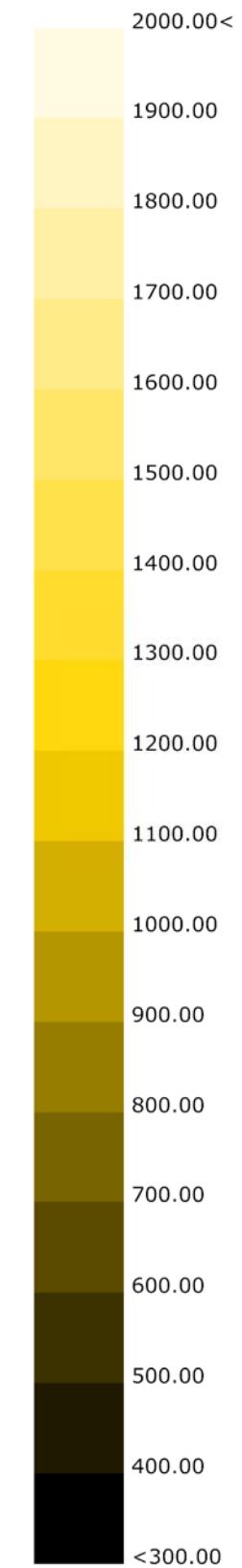


Light index: 59.0

MM/DD/HH: 032109



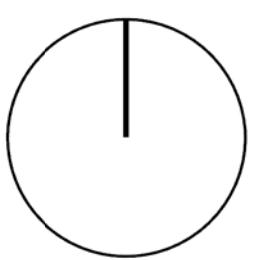
Illumination in lux



Bathroom

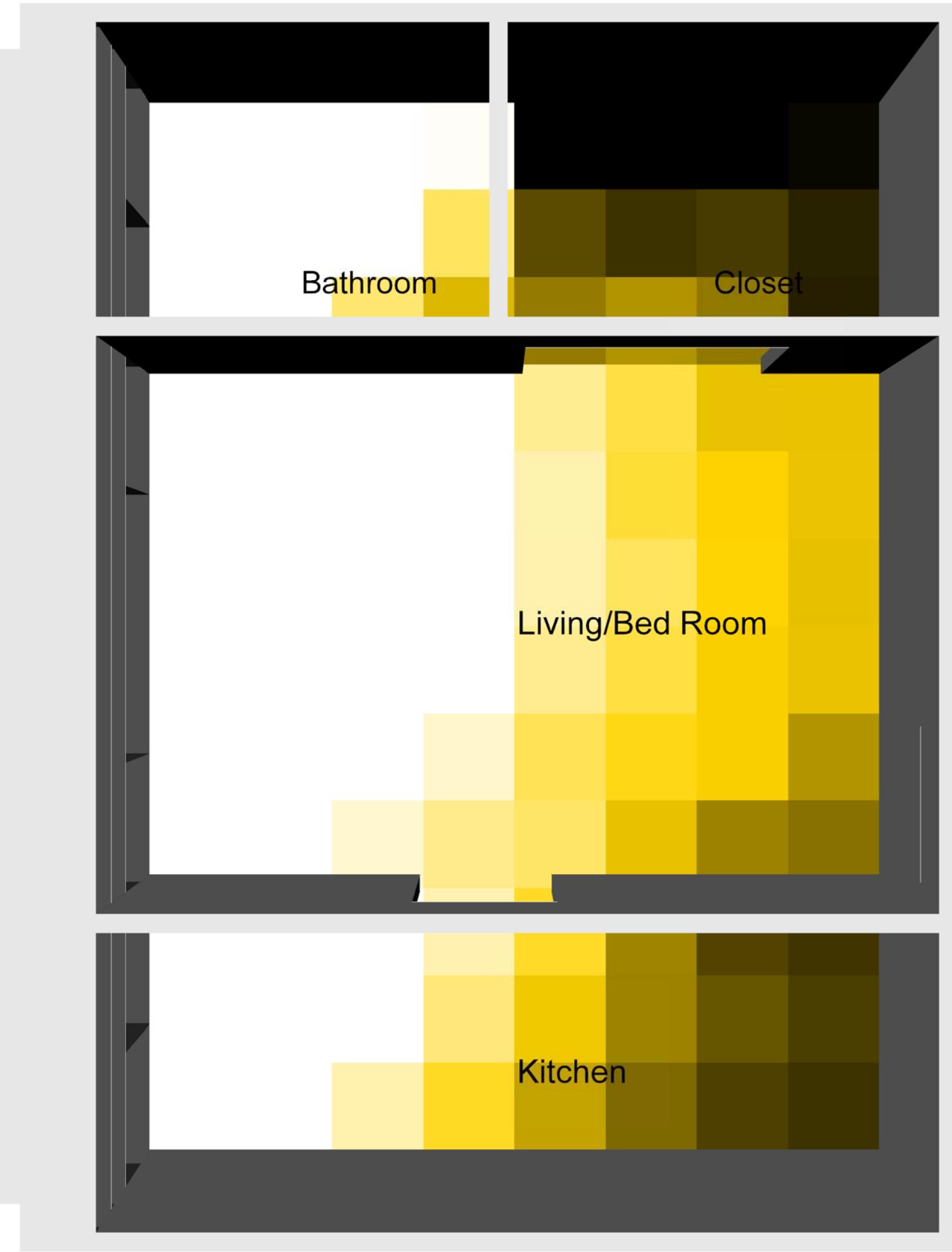
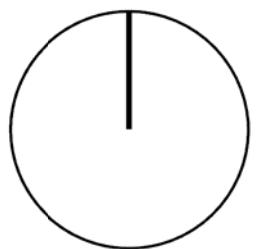
Living/Bed Room

Kitchen

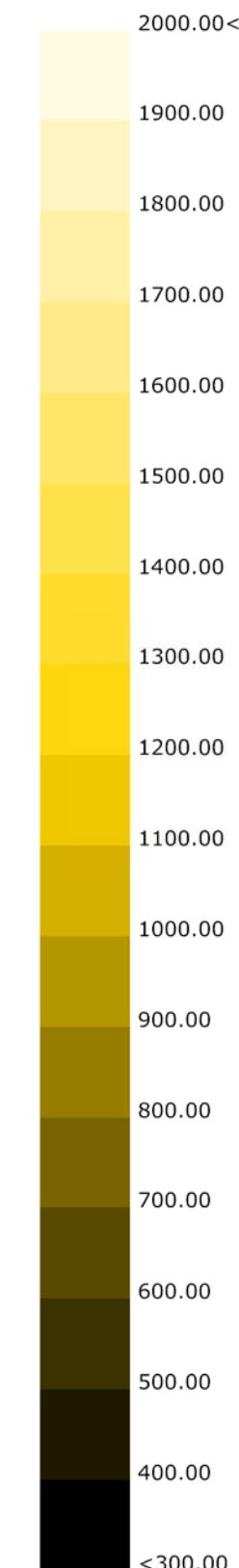


Light index:15.0

MM/DD/HH: 032112



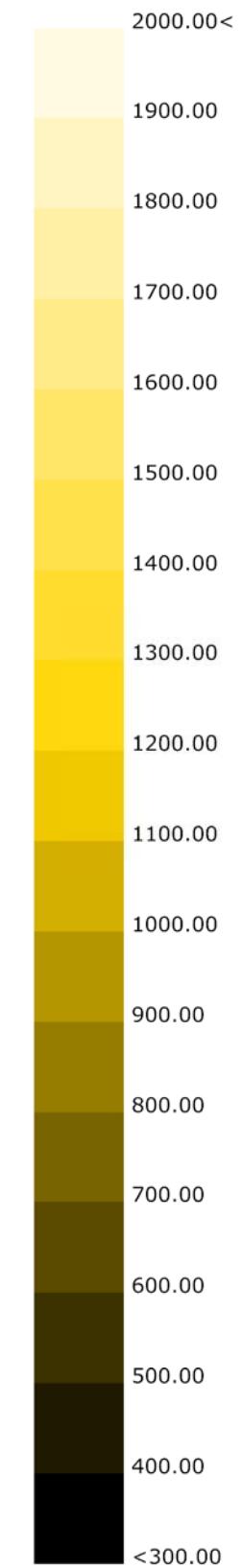
Illumination in lux



Light index:40.0

MM/DD/HH: 032115

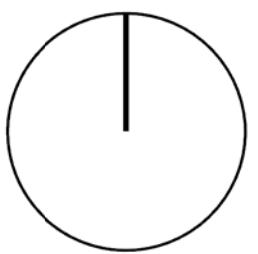
Illumination in lux



Bathroom

Closet

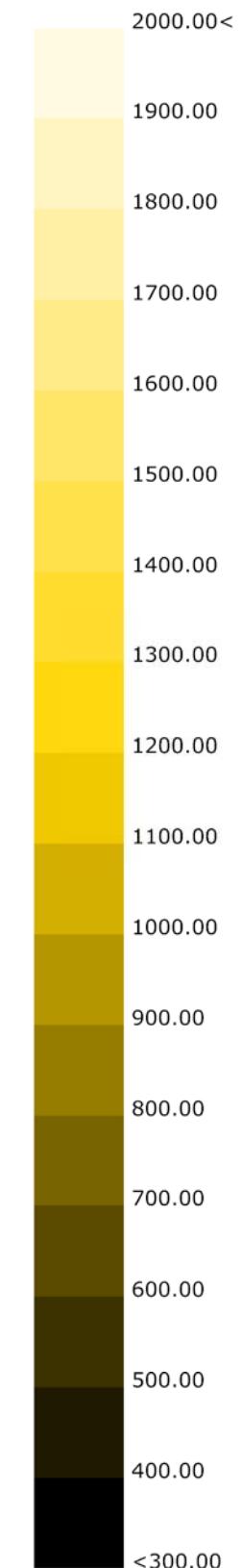
Living/Bed Room



Light index:18.0

MM/DD/HH: 062109

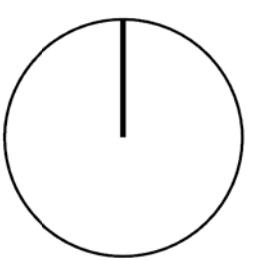
Illumination in lux



Bathroom

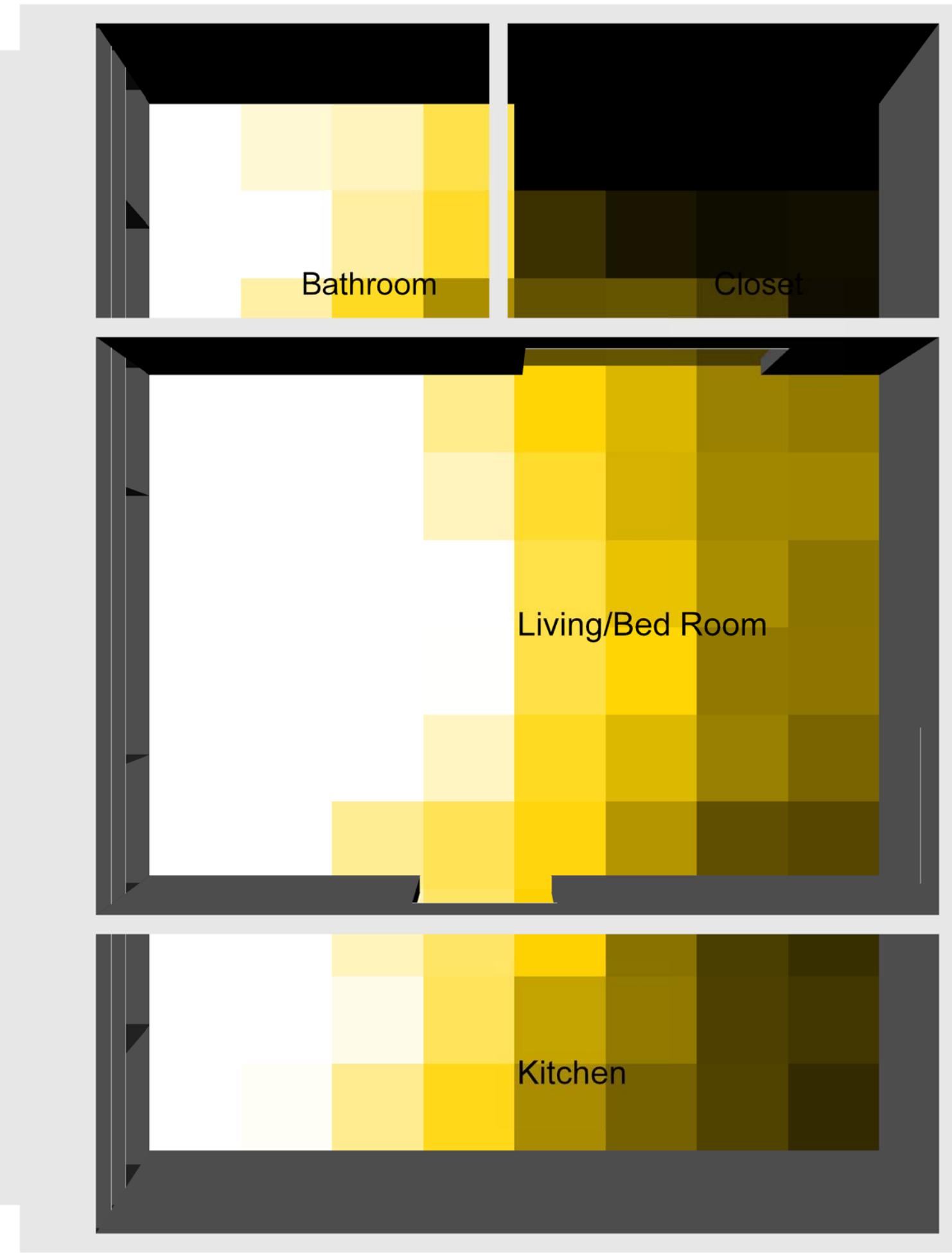
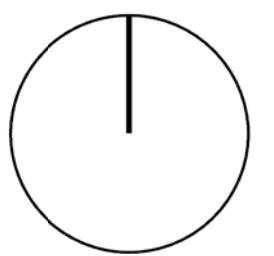
Living/Bed Room

Kitchen

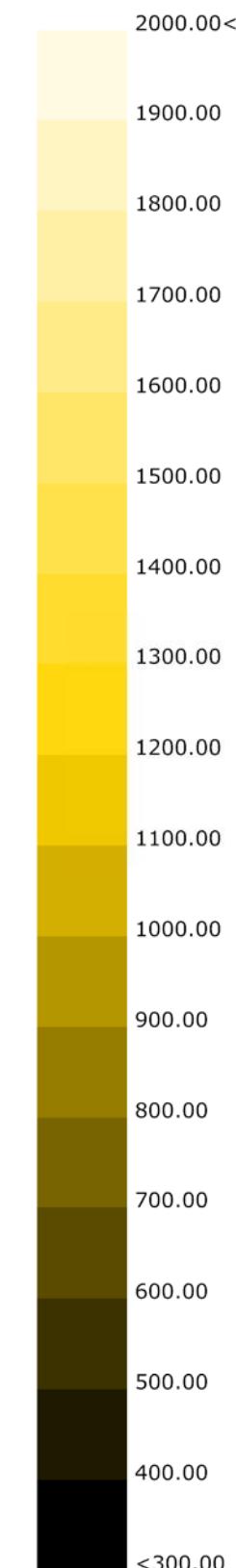


Light index: 17.0

MM/DD/HH: 062112

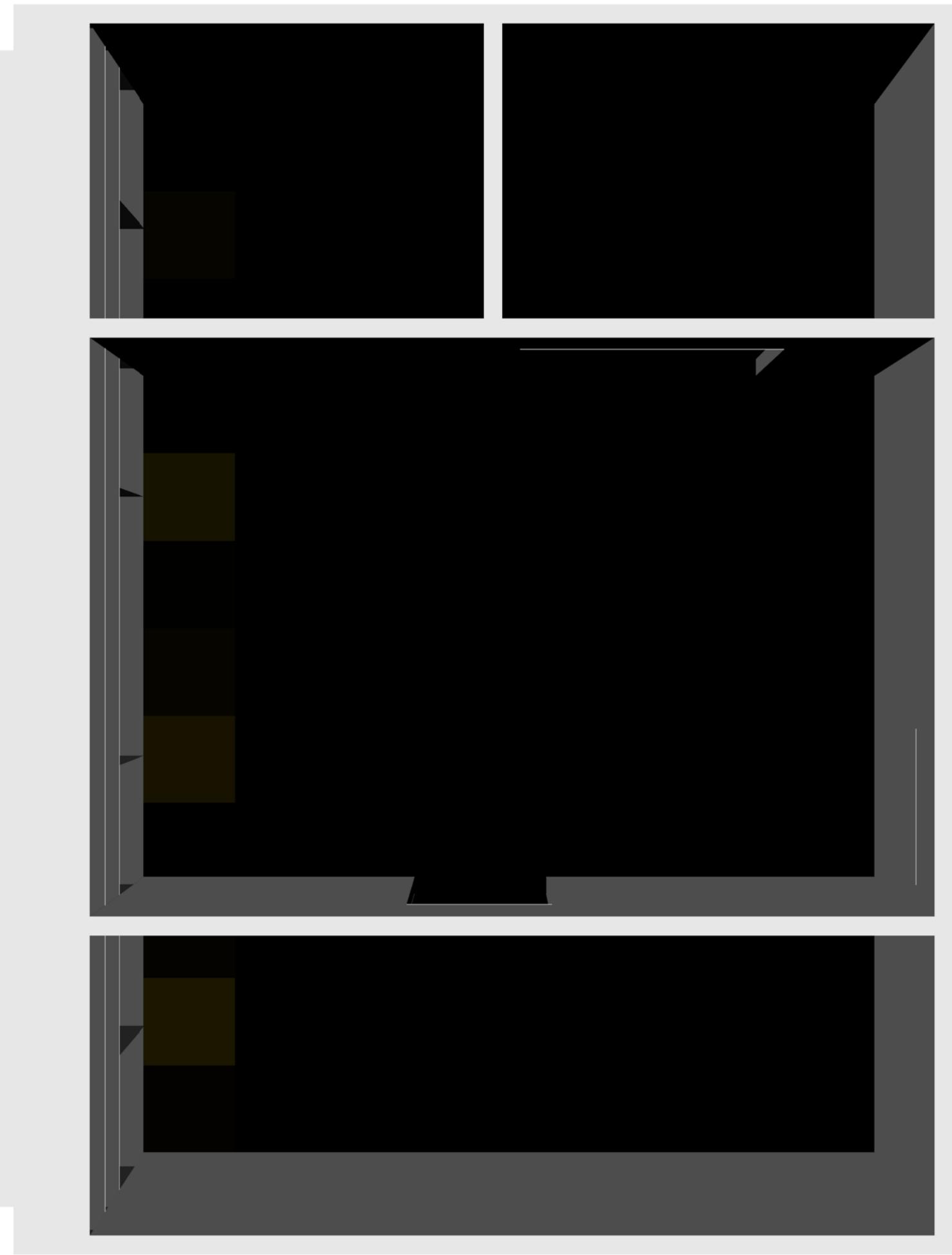
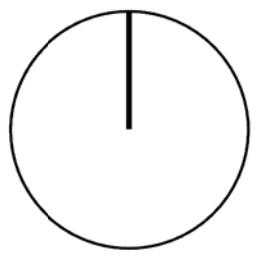


Illumination in lux

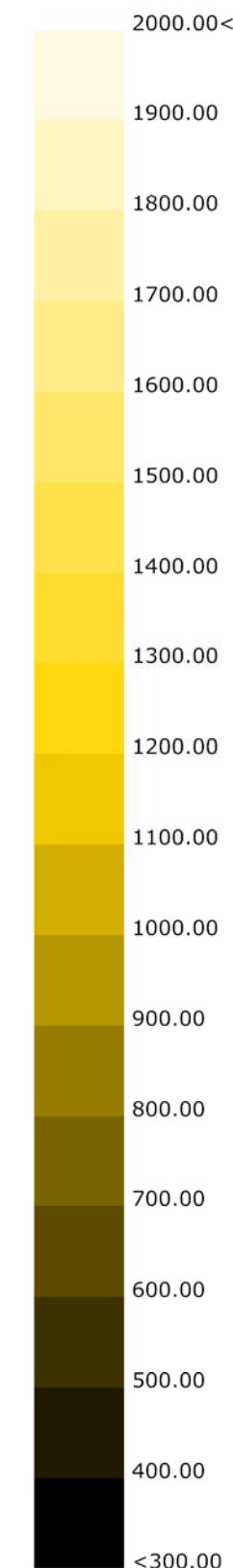


Light index:31.0

MM/DD/HH: 062115

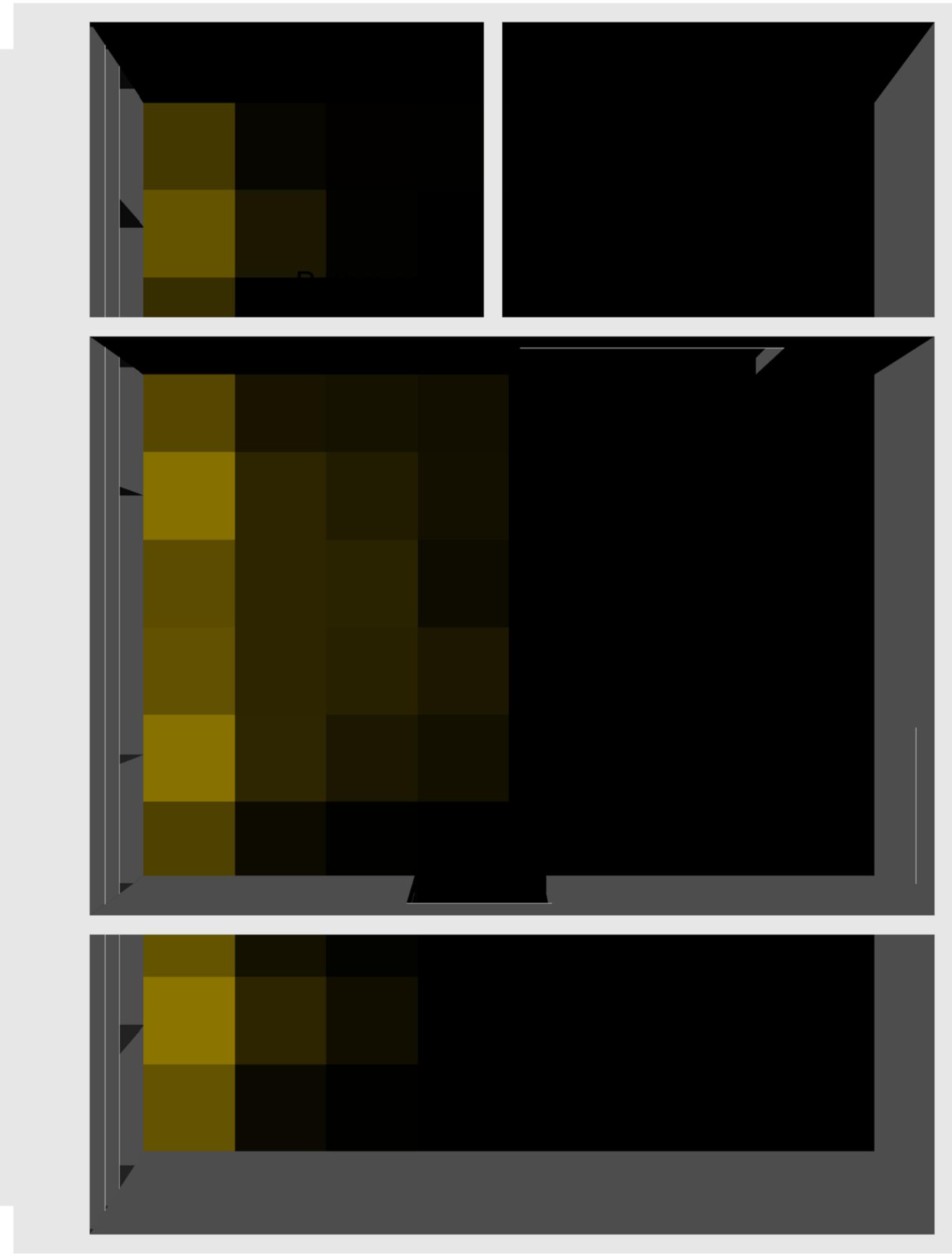
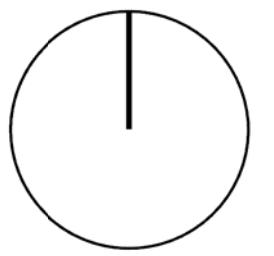


Illumination in lux

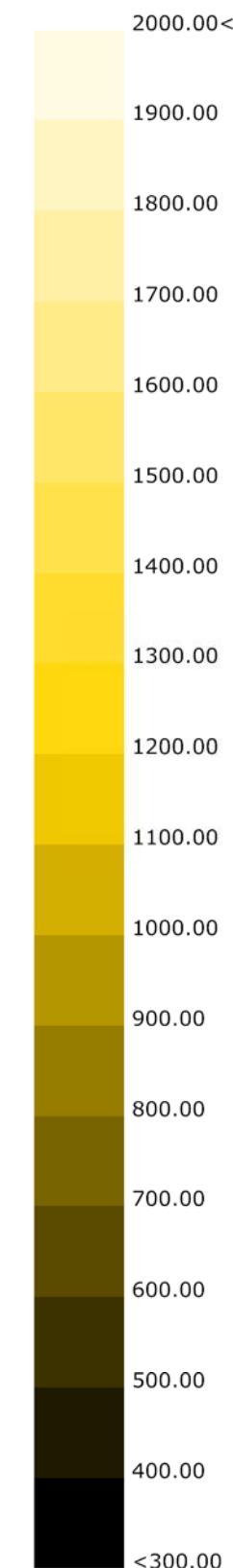


Light index:88.0

MM/DD/HH: 122109



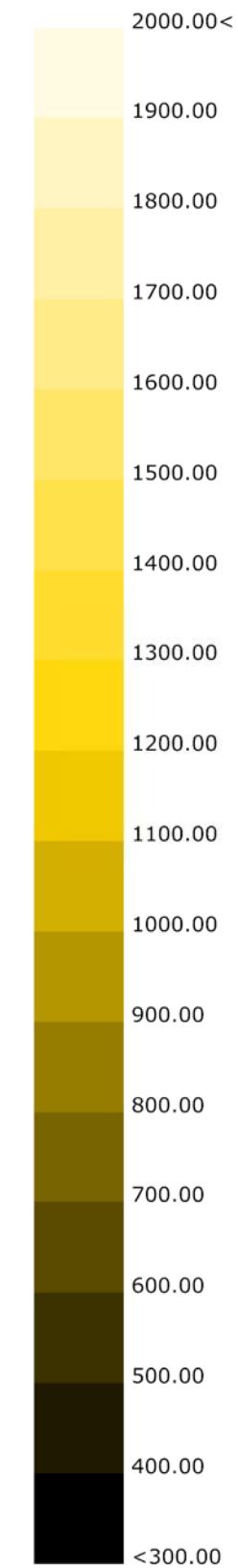
Illumination in lux



Light index: 56.0

MM/DD/HH: 122112

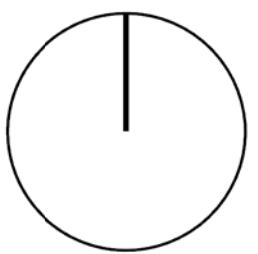
Illumination in lux



Bathroom

CLOSE

Living/Bed Room

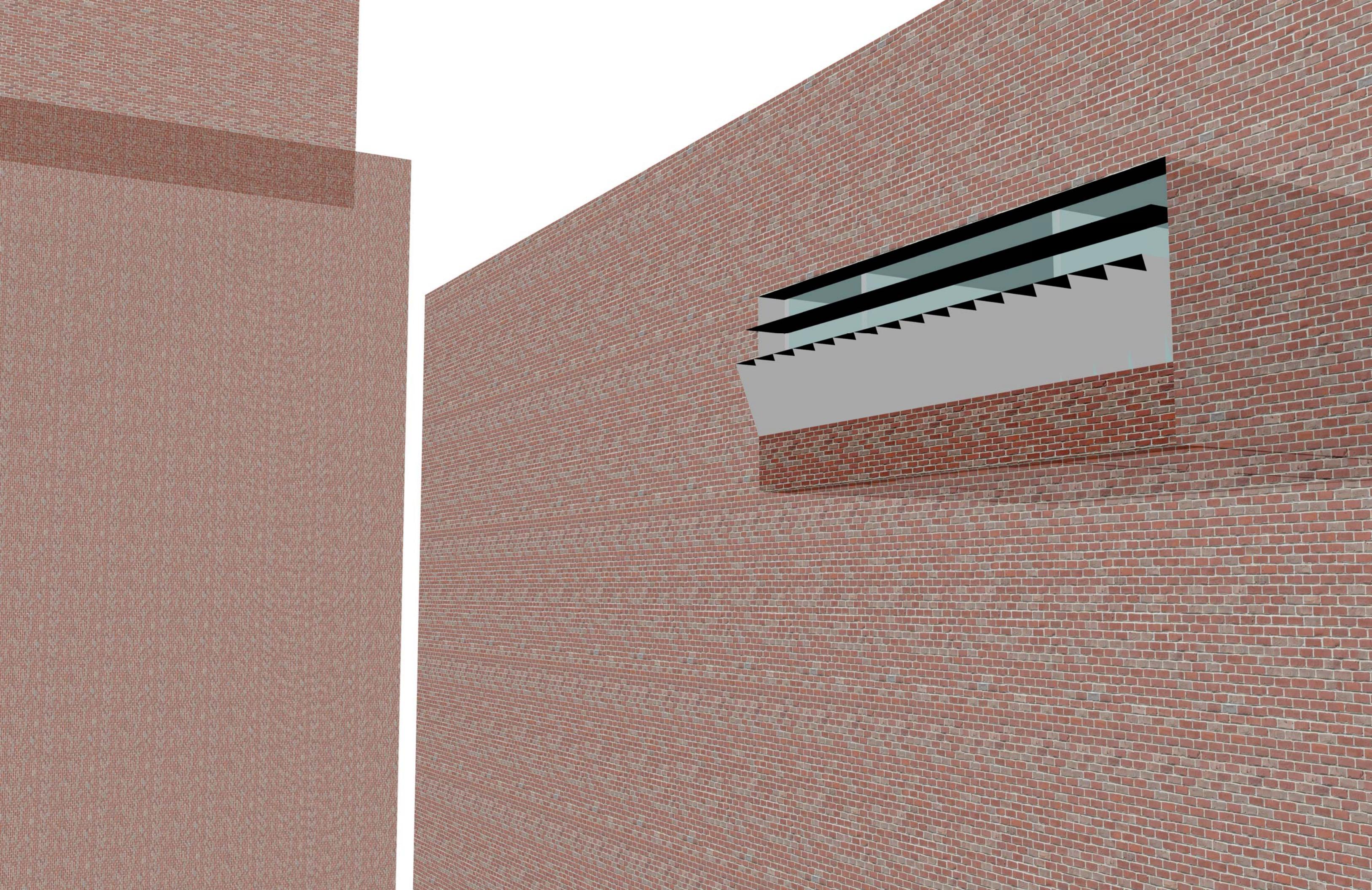


Light index:22.0

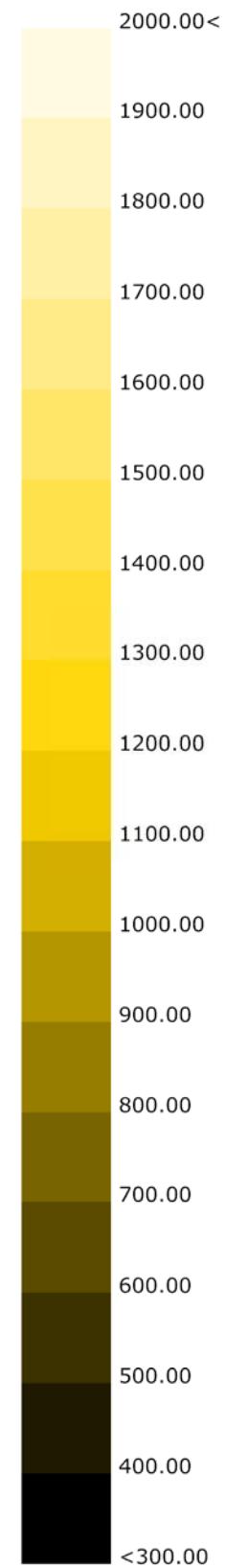
MM/DD/HH: 122115

Cumulative light index = 59+15+40+18+17+31+88+56+22 = 346

7. Horizontal + vertical shading of varying depth (2)

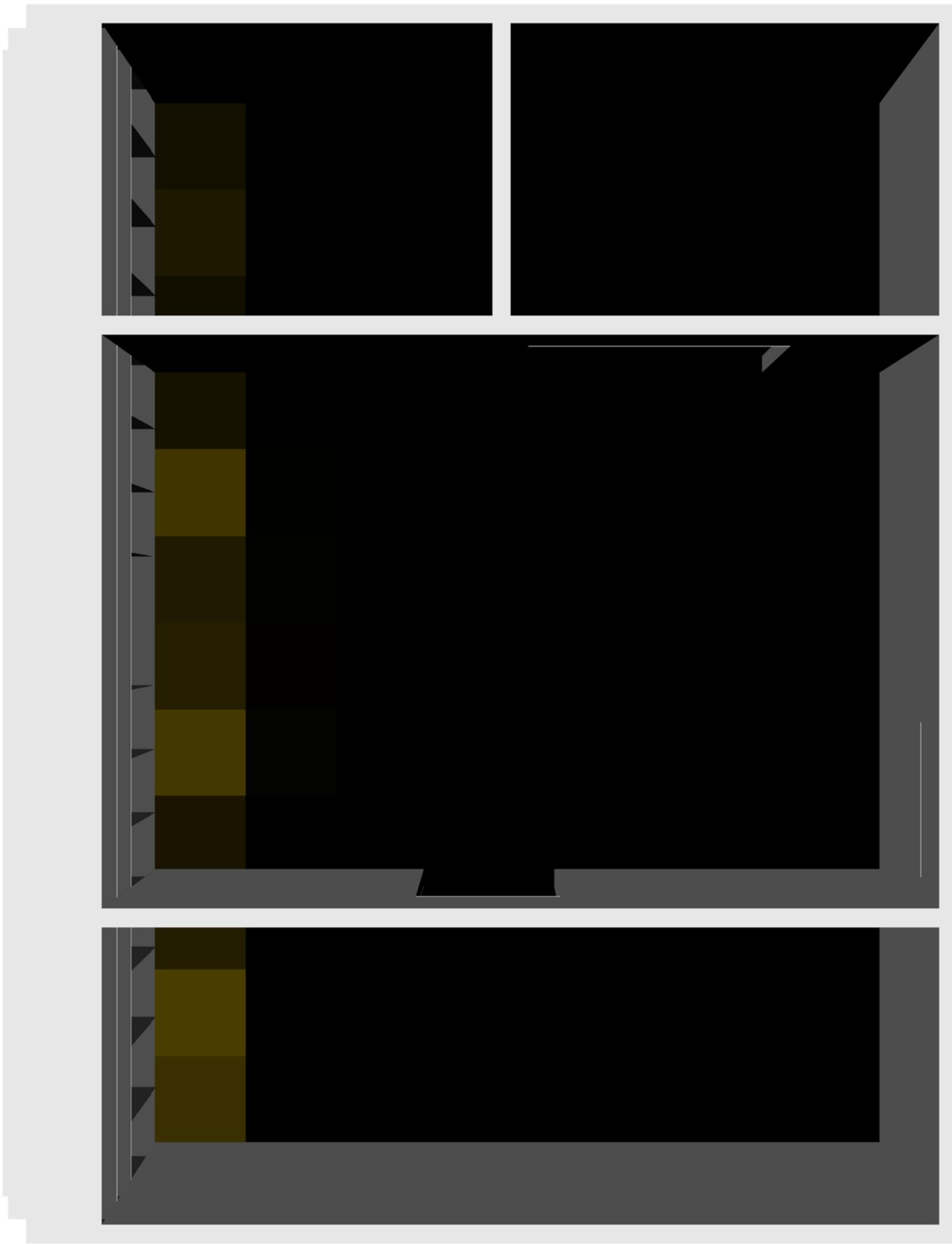
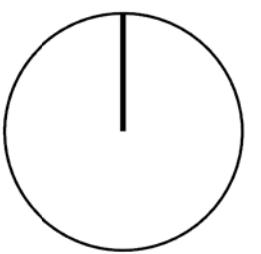


Illumination in lux

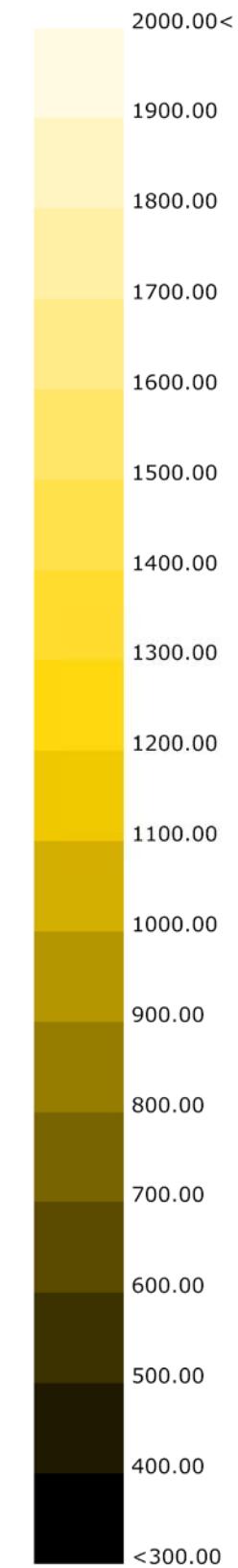


Light index: 79.0

MM/DD/HH: 032109



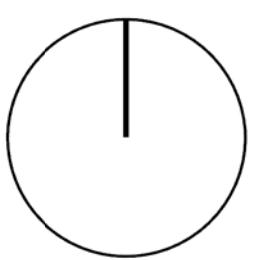
Illumination in lux



Bathroom

Living/Bed Room

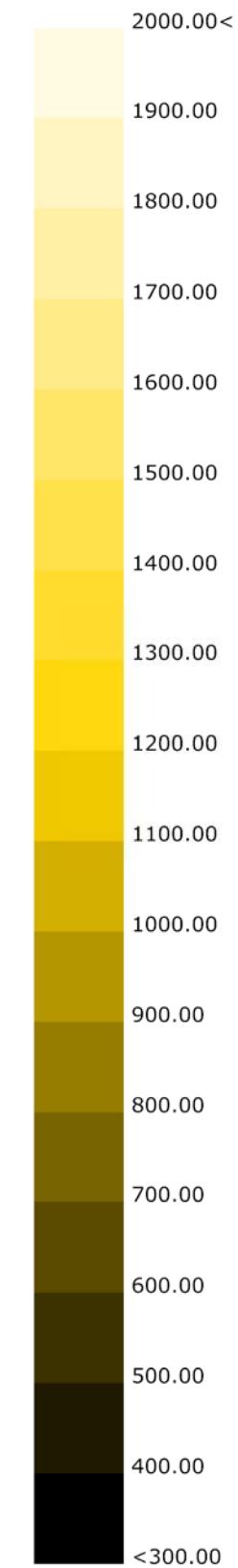
Kitchen



Light index:20.0

MM/DD/HH: 032112

Illumination in lux

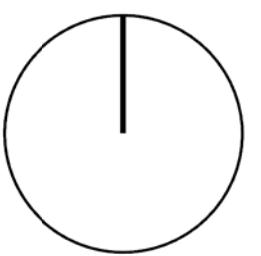


Bathroom

Closet

Living/Bed Room

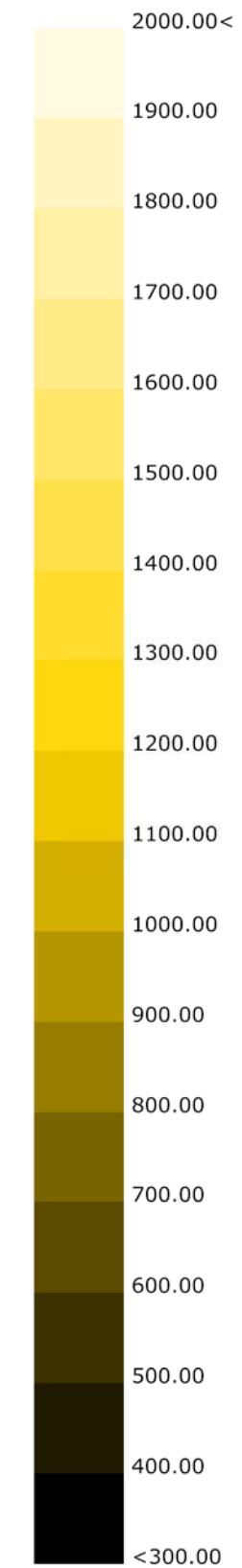
Kitchen



Light index:22.0

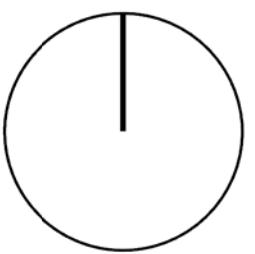
MM/DD/HH: 032115

Illumination in lux



Bathroom

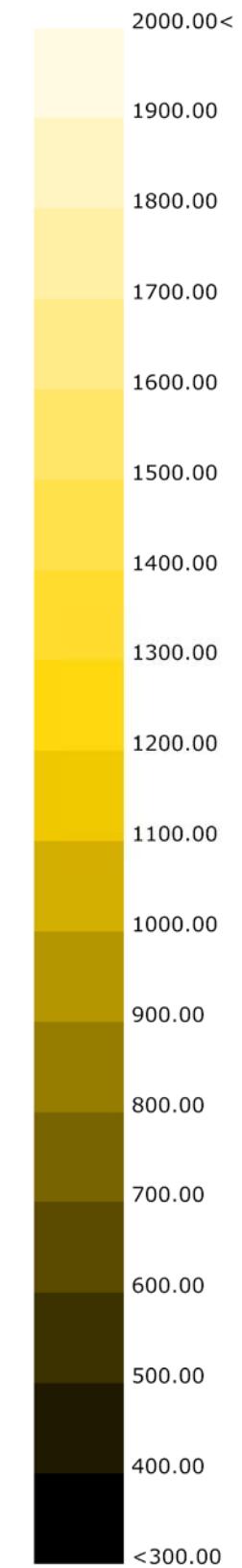
Living/Bed Room



Light index:20.0

MM/DD/HH: 062109

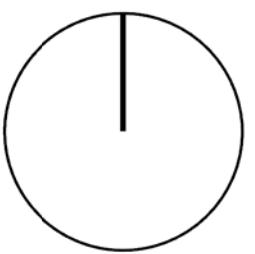
Illumination in lux



Bathroom

Living/Bed Room

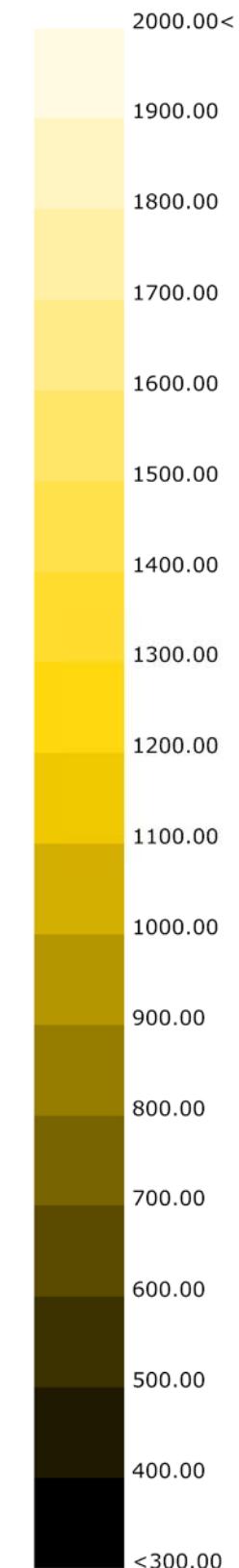
Kitchen



Light index:24.0

MM/DD/HH: 062112

Illumination in lux

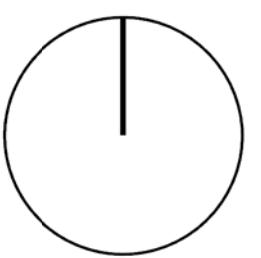


Bathroom

Closet

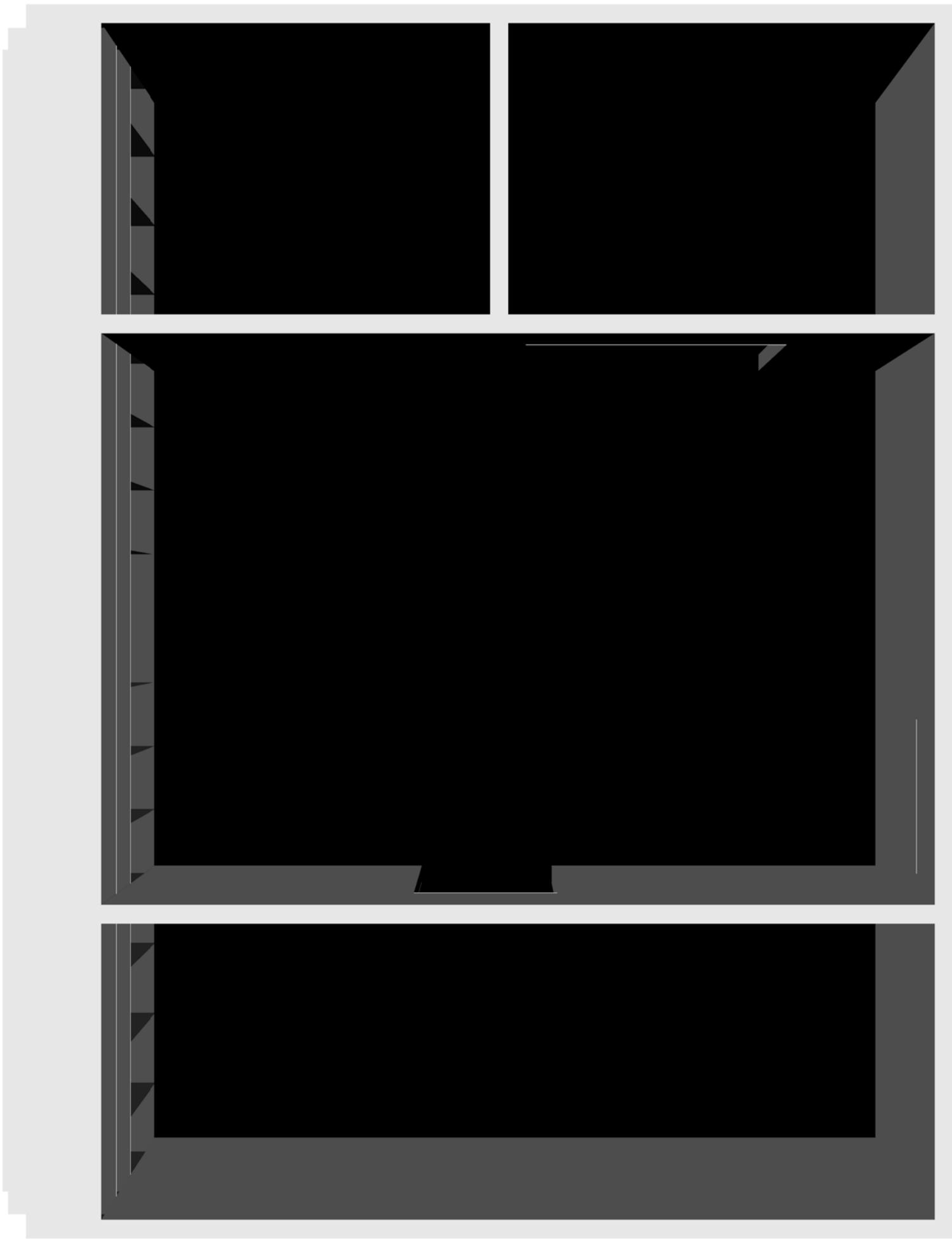
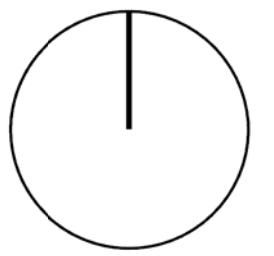
Living/Bed Room

Kitchen

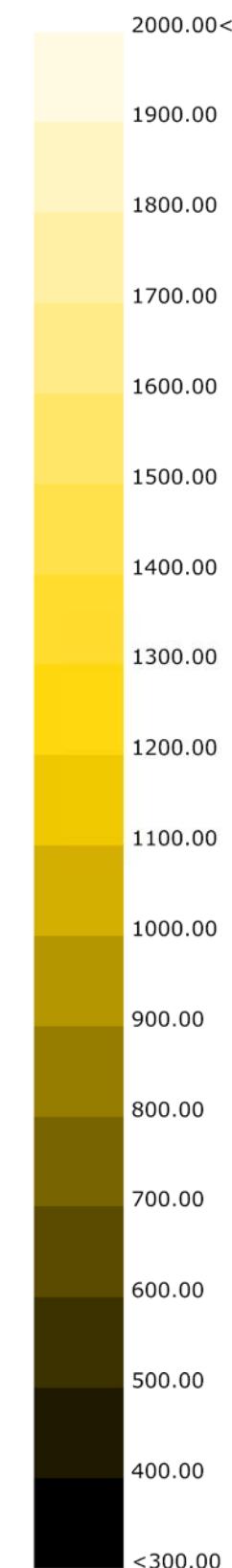


Light index:21.0

MM/DD/HH: 062115

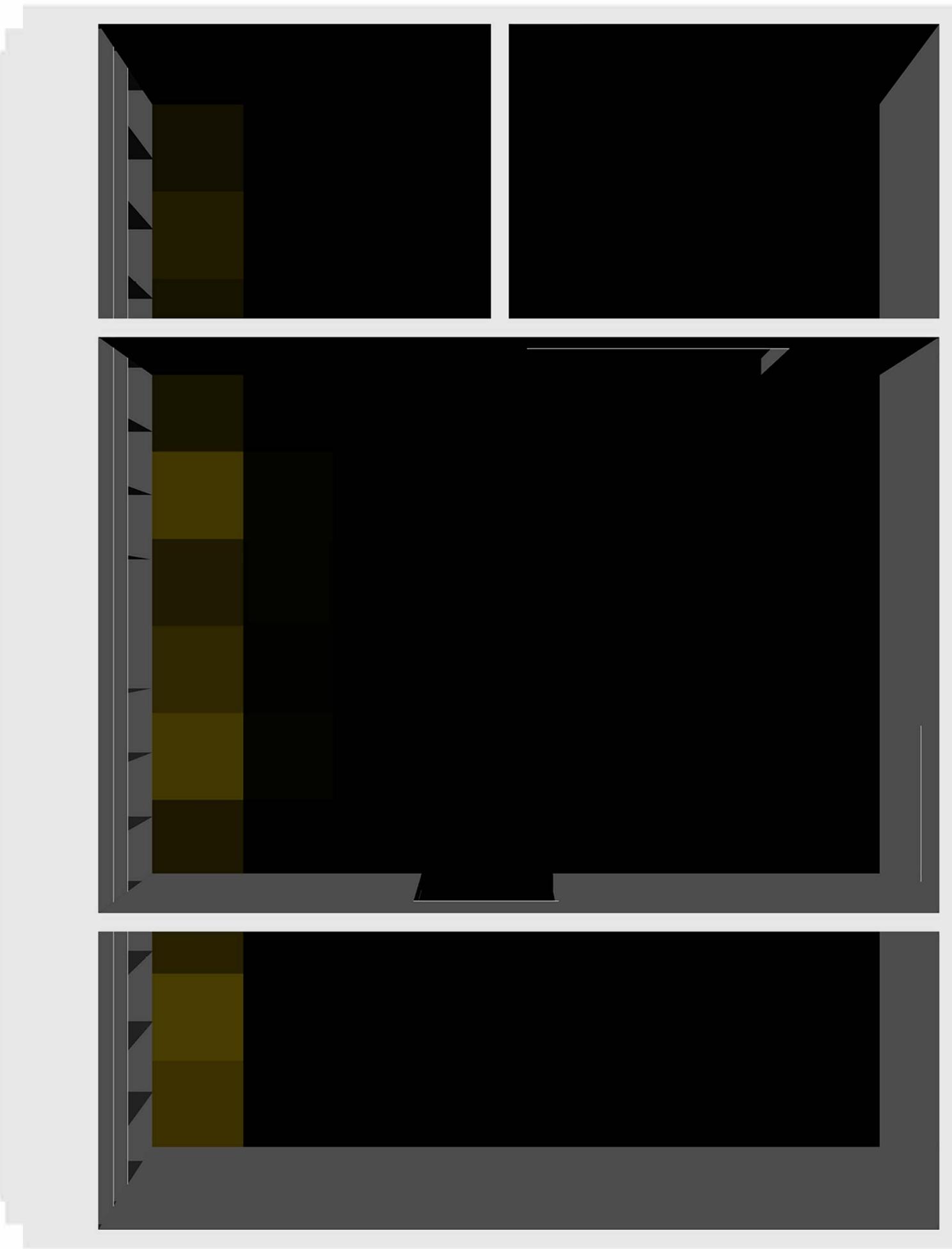
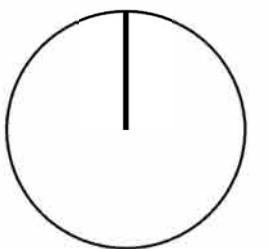


Illumination in lux

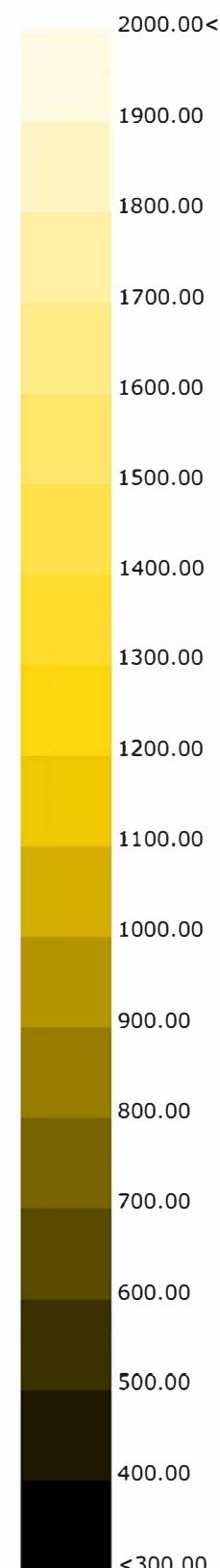


Light index:96.0

MM/DD/HH: 122109



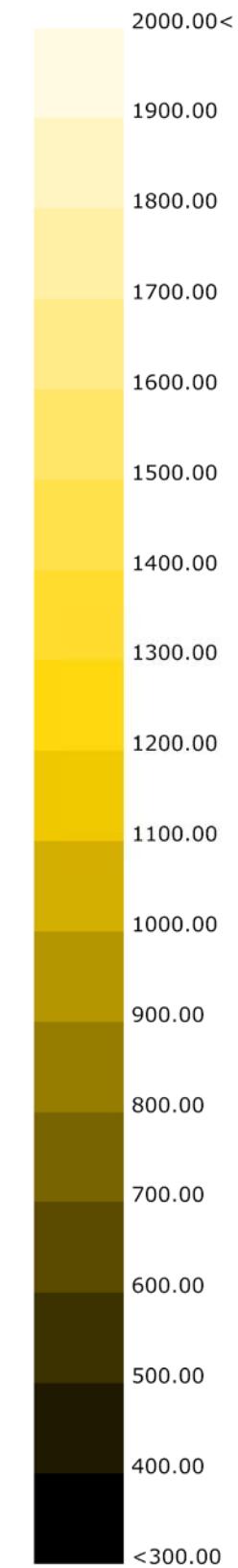
Illumination in lux



Light index: 78.0

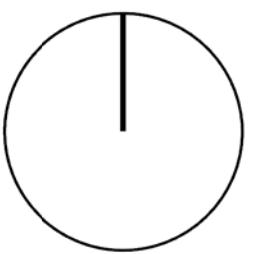
MM/DD/HH: 122112

Illumination in lux



Bathroom

Living/Bed R



Light index:30.0

MM/DD/HH: 122115

Cumulative light index = 79+20+22+20+24+21+96+78+30 = 390

Final Calculation

Minimum cumulative light index = 5. Horizontal + vertical shading = 340

