

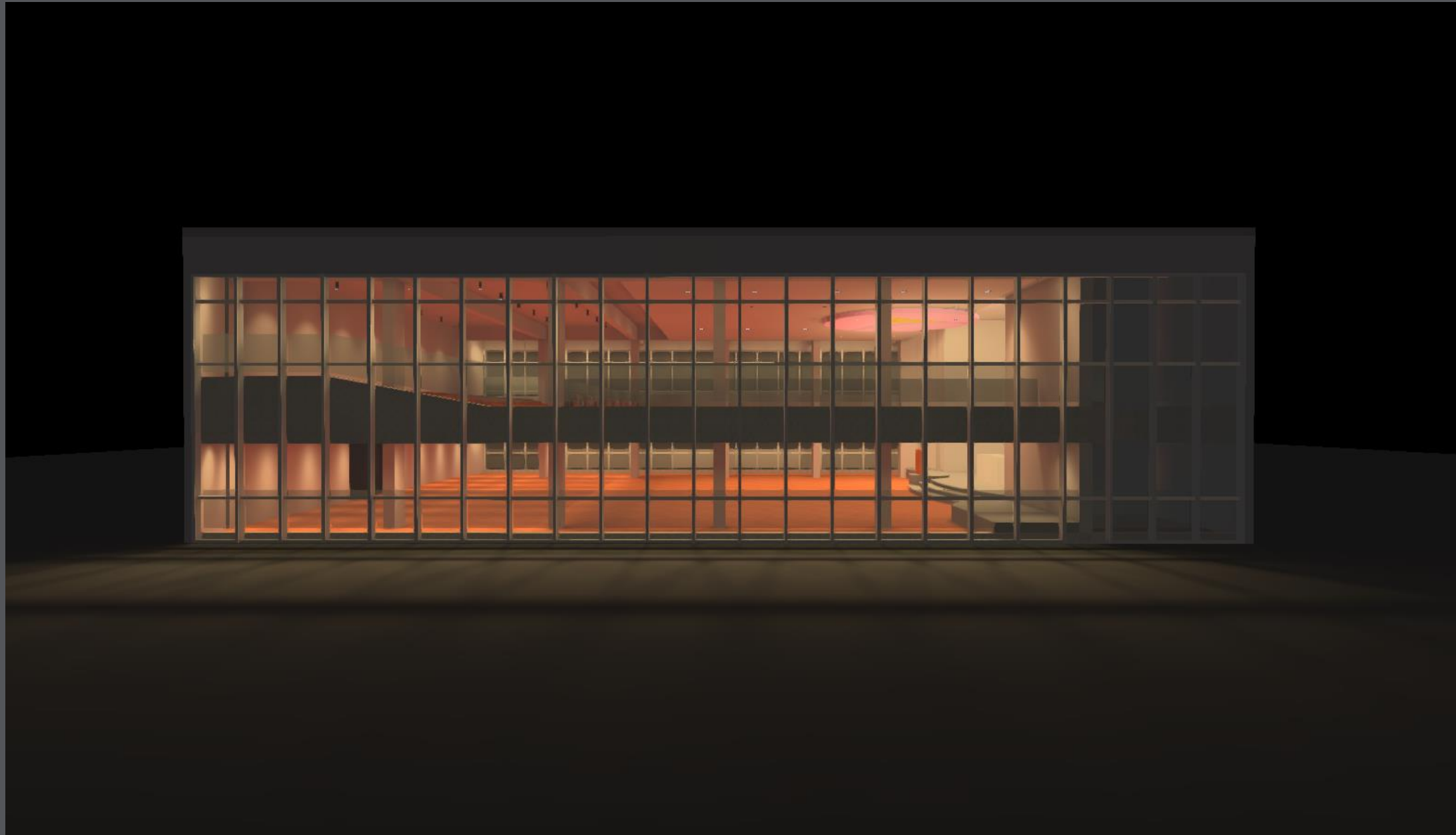
ST.BONAVENTURE CHURCH

Rev. 7

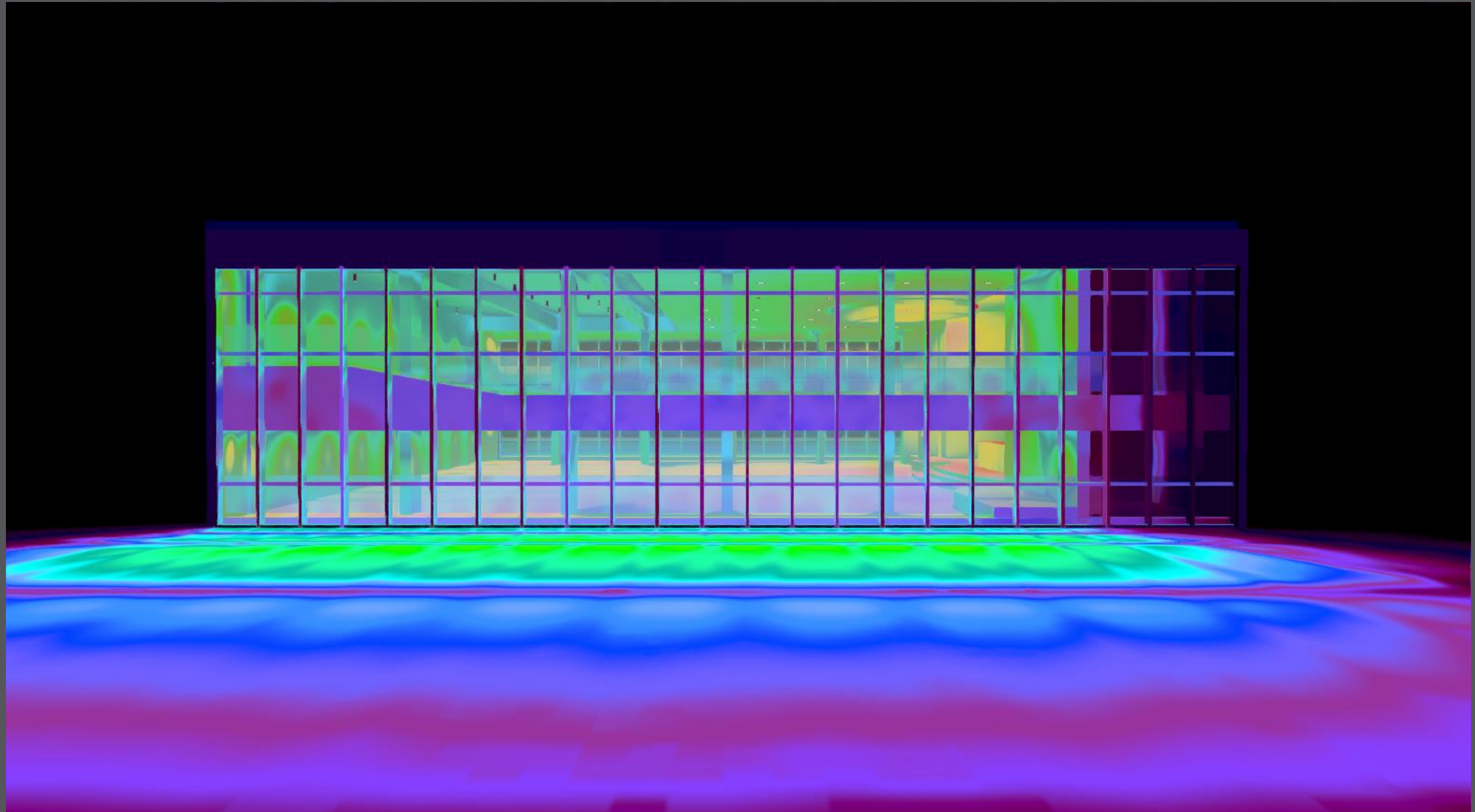
Project No. HK16060023
By. VEENA L., NATTAWAT W.
Ligman Lighting Co., Ltd.

LIGMAN

RENDERING



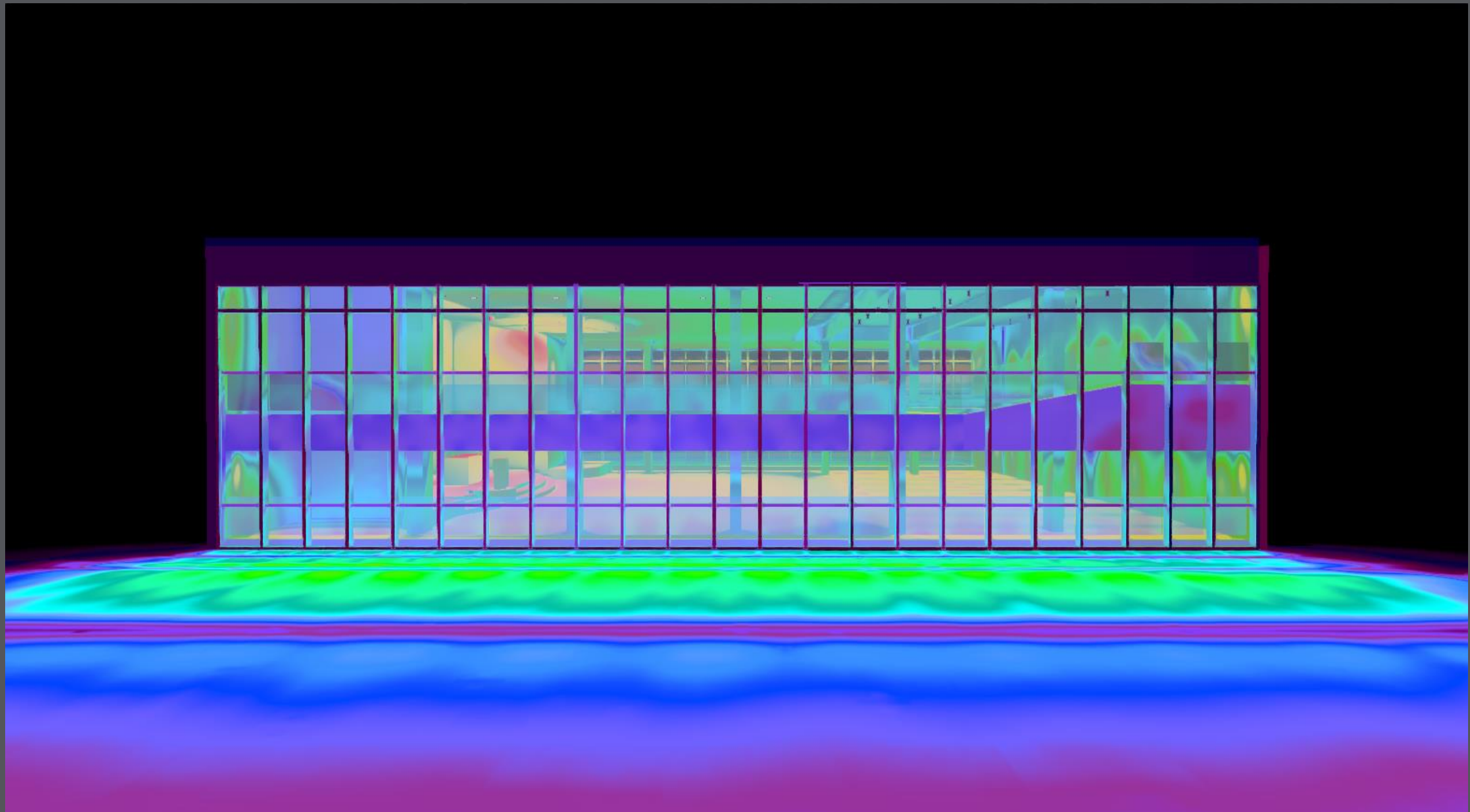
3D FALSE COLOR RENDERING



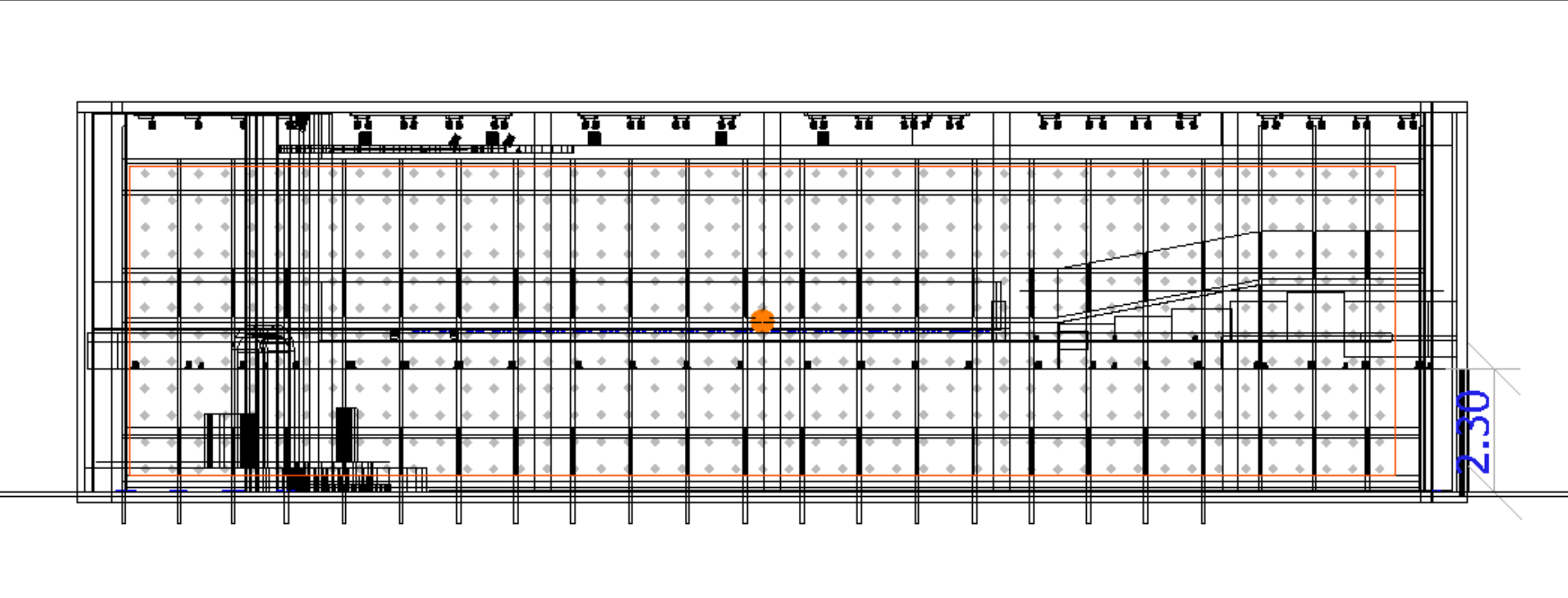
RENDERING



3D FALSE COLOR RENDERING



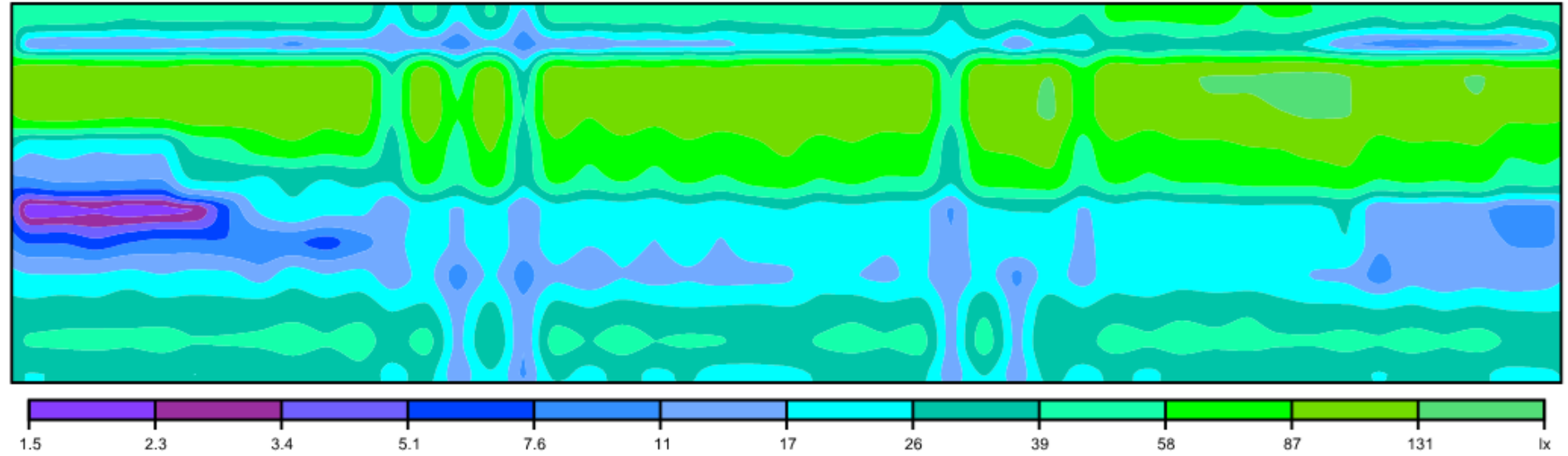
ELEVATION GLASS WALL SURFACE



ELEVATION GLASS WALL SURFACE

ALL LIGHTS ON

False colors [lx]

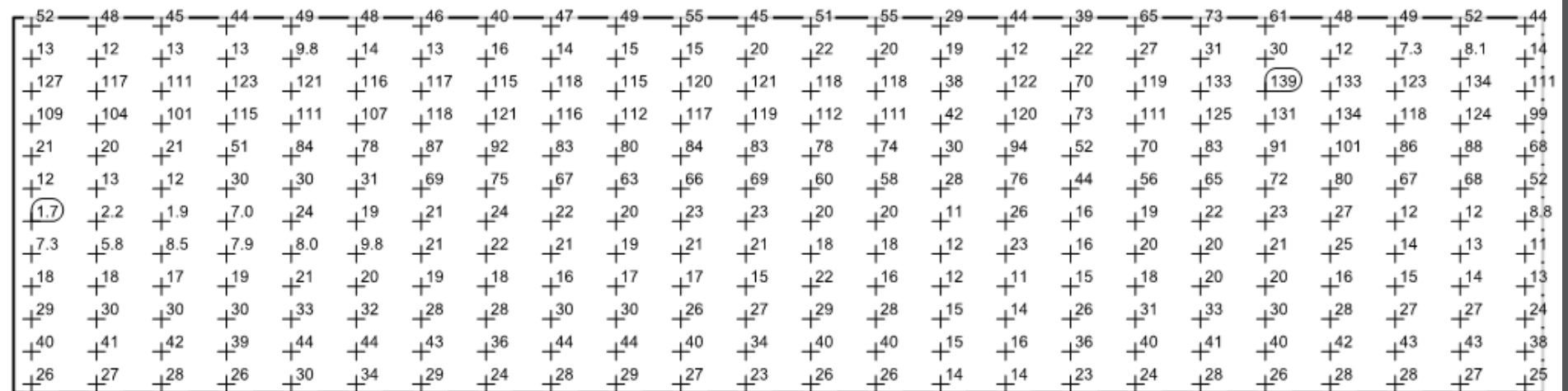


Calculation surface (Perpendicular illuminance)

Actual

Average	45.6 lx
Min	1.69 lx
Max	142 lx
Min/average	0.04
Min/max	0.01

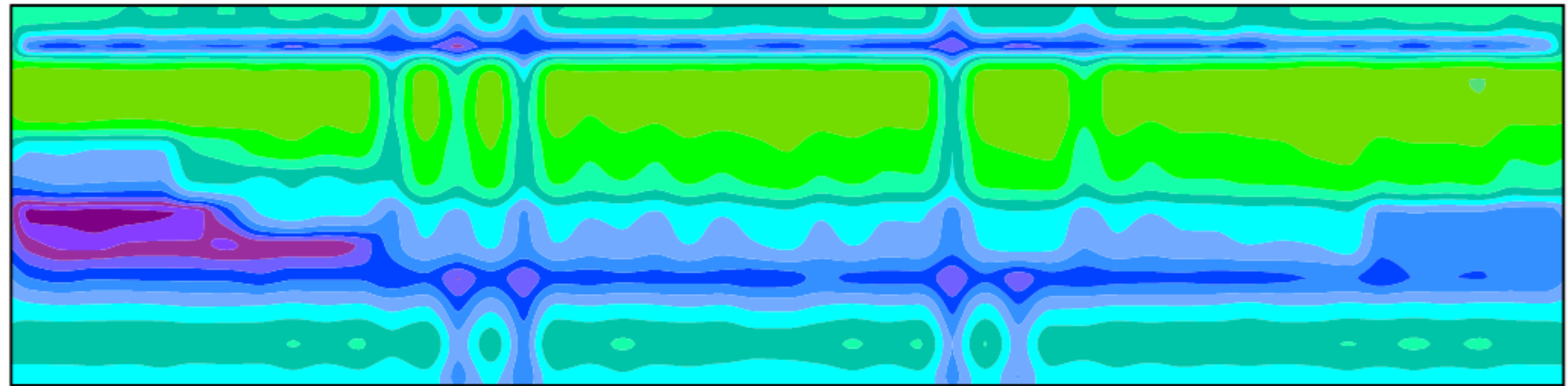
Value grid [lx]



ELEVATION GLASS WALL SURFACE

JUST SIDE LIGHTS ON (ROY AND BAKER)

False colors [lx]



Value grid [lx]

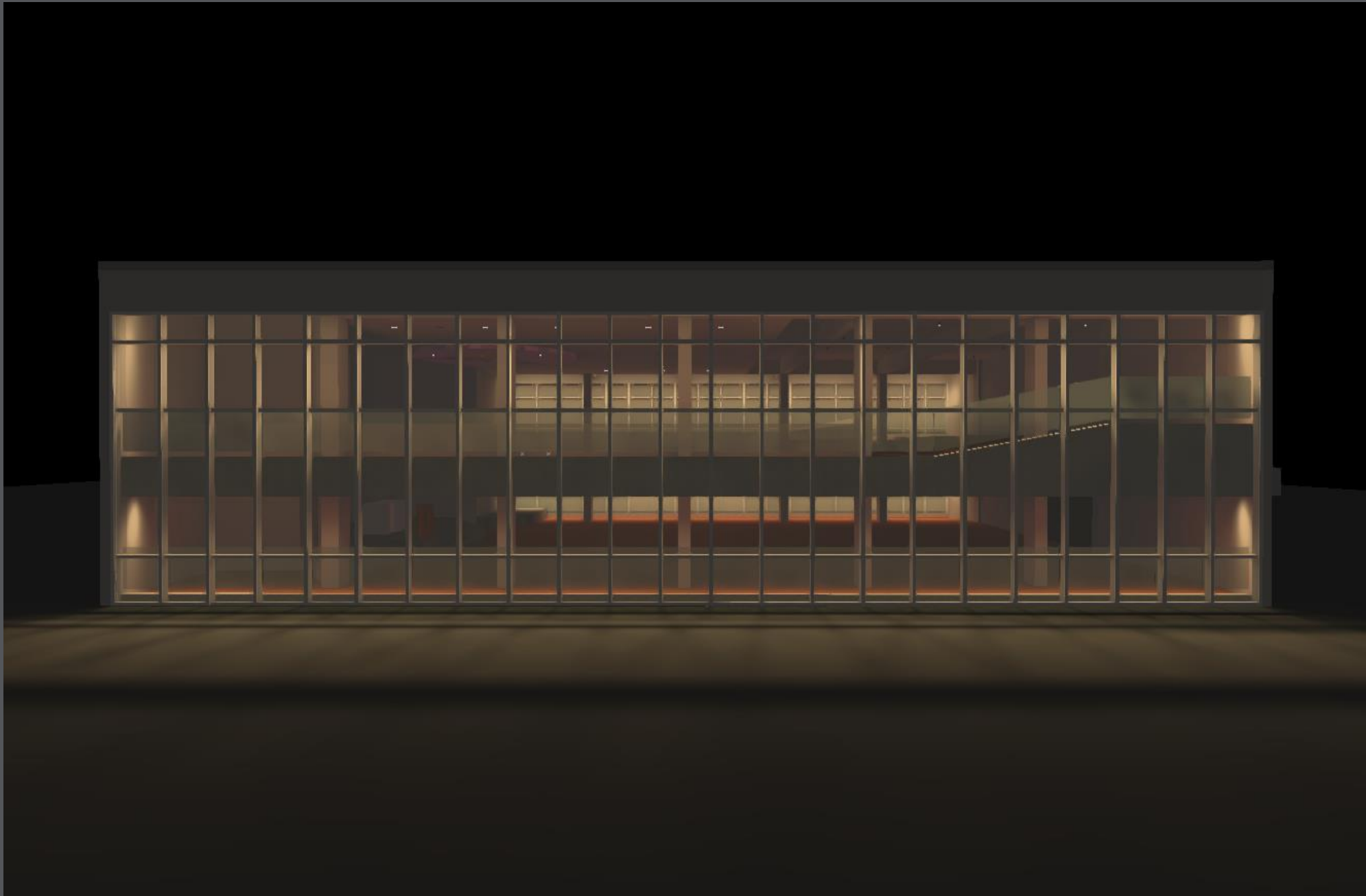
+48	+42	+39	+39	+42	+42	+37	+32	+39	+39	+41	+33	+38	+39	+14	+38	+22	+41	+45	+37	+43	+46	+51	+43
+8.4	+7.4	+8.3	+6.8	+4.4	+5.9	+5.3	+6.1	+5.2	+6.2	+5.5	+7.3	+8.1	+5.8	+3.9	+3.9	+6.5	+5.6	+7.1	+8.9	+6.7	+5.4	+6.7	+13
+125	+114	+108	+118	+114	+108	+109	+106	+108	+105	+110	+109	+106	+104	+25	+115	+58	+100	+112	+115	+129	+121	+133	+110
+107	+102	+99	+113	+107	+101	+110	+113	+108	+103	+107	+109	+101	+98	+31	+115	+62	+92	+103	+112	+129	+116	+123	+98
+19	+18	+18	+49	+82	+75	+84	+89	+81	+75	+81	+80	+74	+69	+26	+91	+48	+65	+75	+83	+99	+85	+88	+67
+11	+12	+12	+30	+28	+28	+66	+72	+64	+60	+63	+65	+56	+54	+25	+73	+41	+51	+58	+65	+78	+66	+67	+51
+1.3	+1.2	+1.4	+6.1	+22	+19	+20	+23	+21	+19	+22	+21	+19	+19	+10.0	+25	+15	+17	+20	+21	+26	+12	+11	+8.5
+2.8	+1.9	+2.5	+2.1	+2.6	+3.5	+16	+18	+17	+15	+17	+16	+14	+15	+9.0	+20	+12	+14	+15	+16	+21	+10.0	+8.9	+7.9
+7.7	+7.3	+7.0	+6.8	+7.1	+7.1	+7.1	+6.5	+6.8	+7.1	+7.0	+6.0	+8.3	+6.7	+3.4	+3.7	+6.2	+7.0	+6.7	+7.2	+8.0	+7.6	+7.5	+8.2
+21	+20	+20	+19	+21	+21	+19	+17	+21	+21	+19	+17	+19	+19	+7.0	+8.7	+18	+19	+20	+20	+22	+22	+22	+20
+36	+37	+37	+35	+39	+40	+39	+32	+39	+40	+37	+31	+35	+35	+11	+14	+32	+35	+35	+35	+39	+40	+40	+36
+21	+22	+23	+21	+23	+23	+23	+19	+23	+24	+22	+19	+21	+21	+9.8	+11	+19	+20	+21	+21	+24	+24	+23	+21

Calculation surface (Perpendicular illuminance)

	Actual
Average	39.2 lx
Min	1.20 lx
Max	133 lx
Min/average	0.03
Min/max	0.01

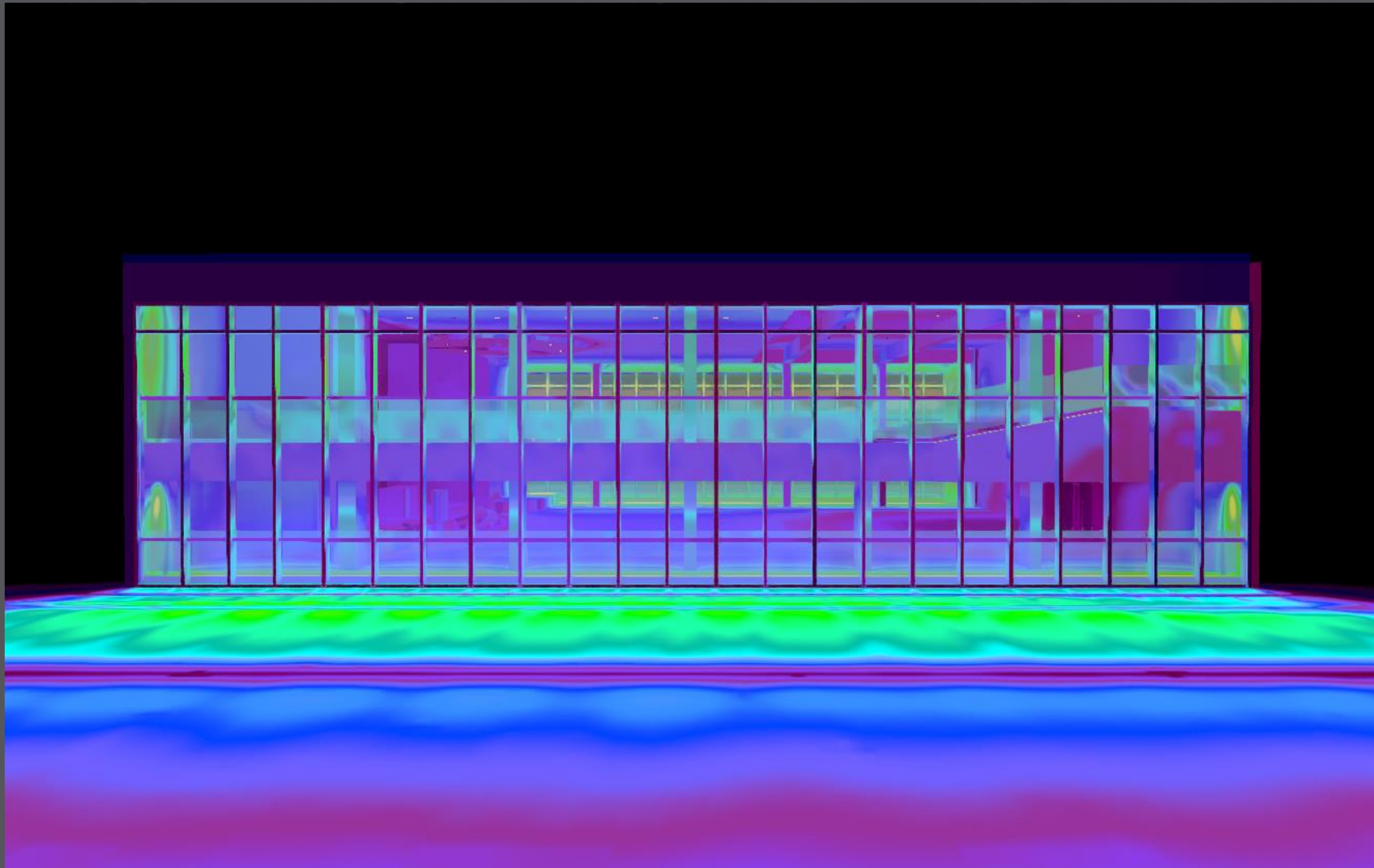
RENDERING

JUST SIDE LIGHTS ON (ROY AND BAKER)



3D FALSE COLOR RENDERING

JUST SIDE LIGHTS ON (ROY AND BAKER)



RENDERING

1.2 M



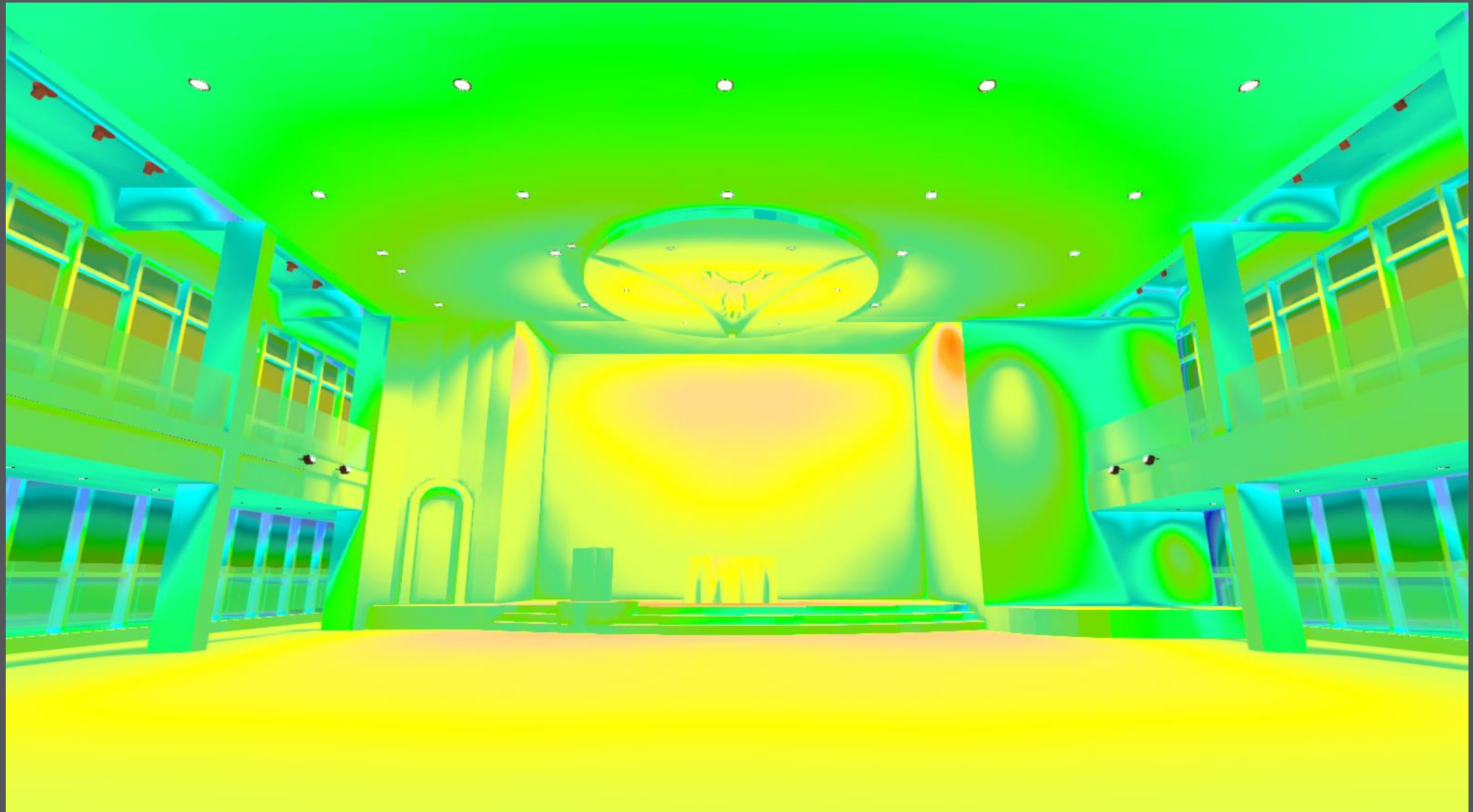
RENDERING



RENDERING



3D FALSE COLOR RENDERING



RENDERING

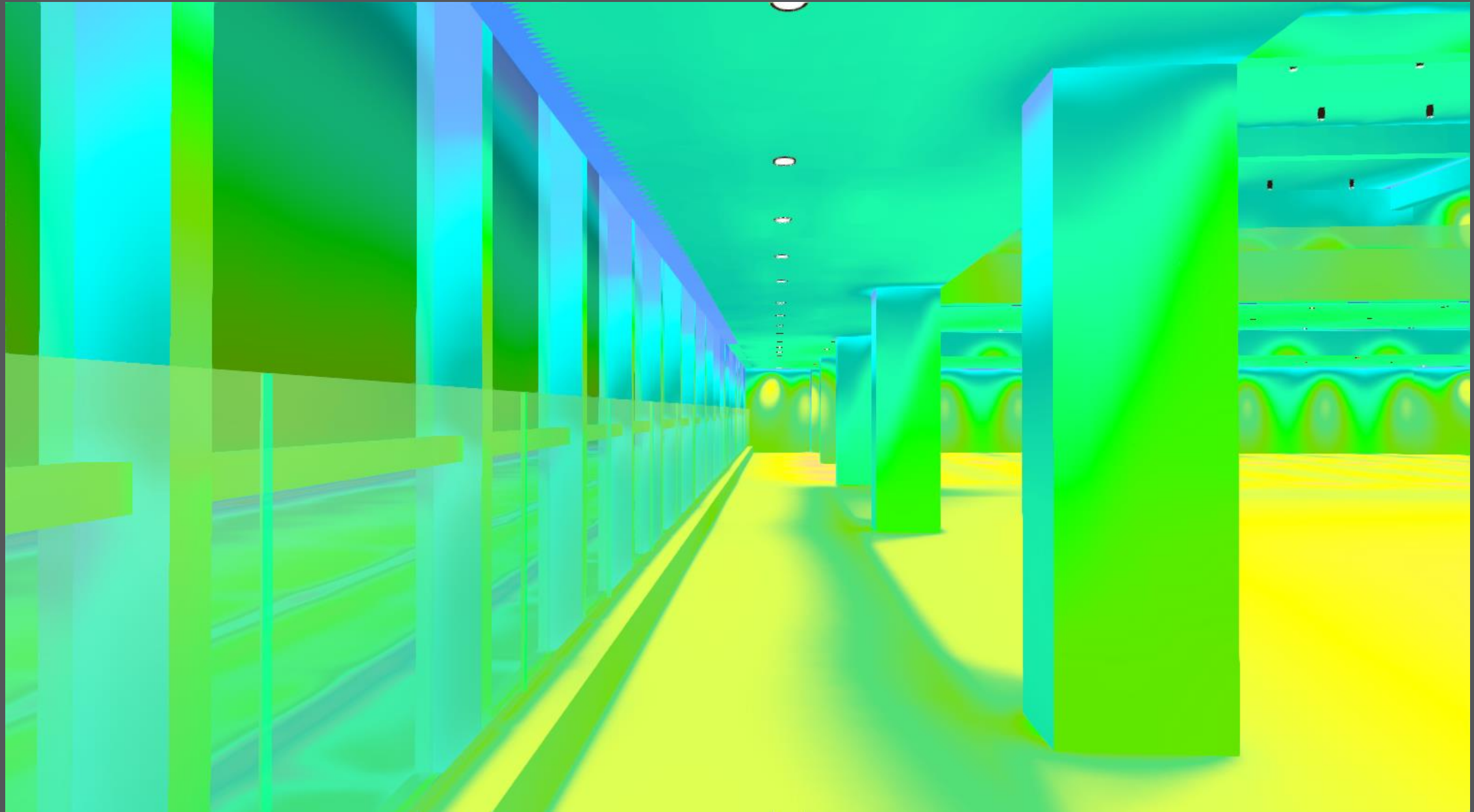


RENDERING

1 M.



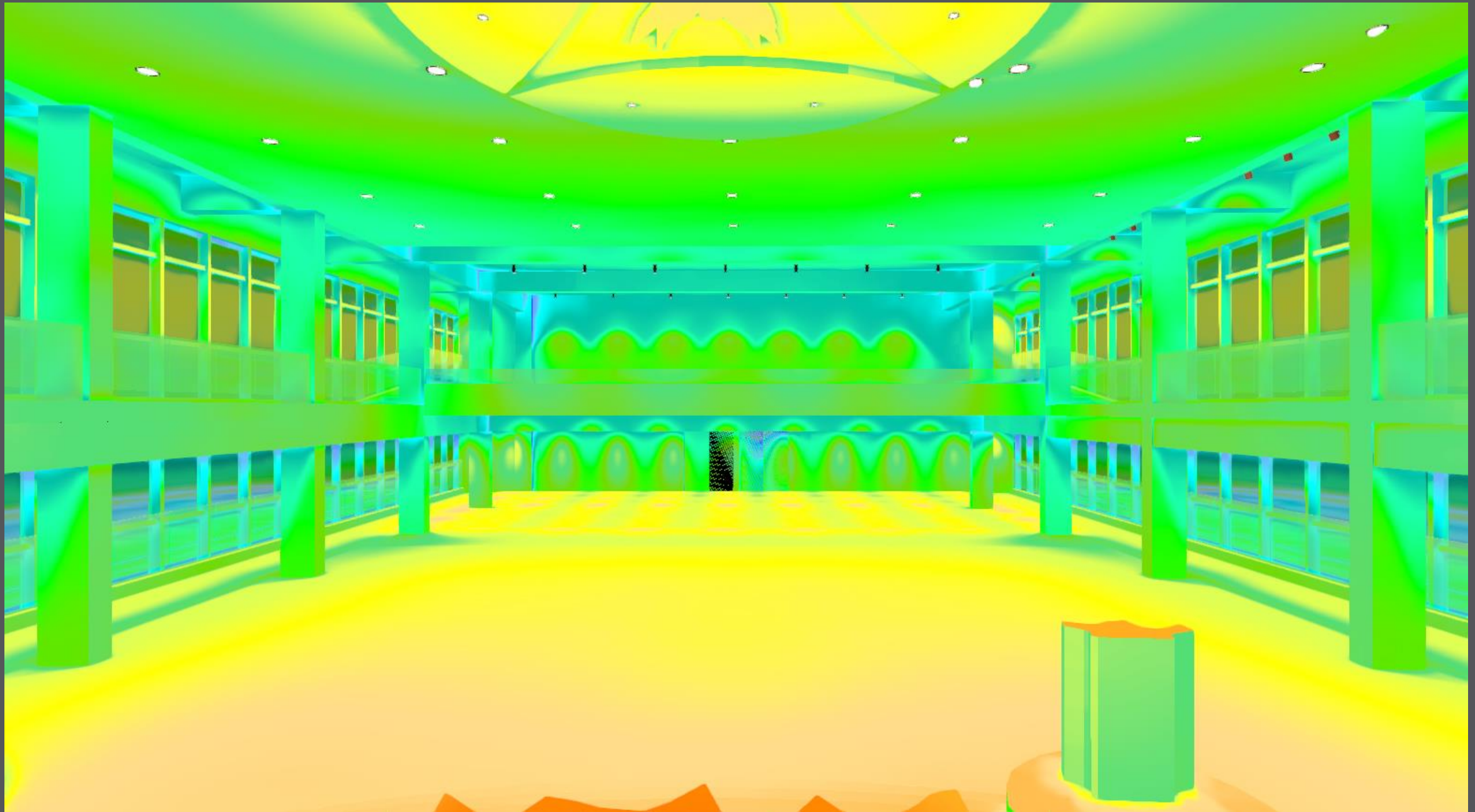
3D FALSE COLOR RENDERING



RENDERING



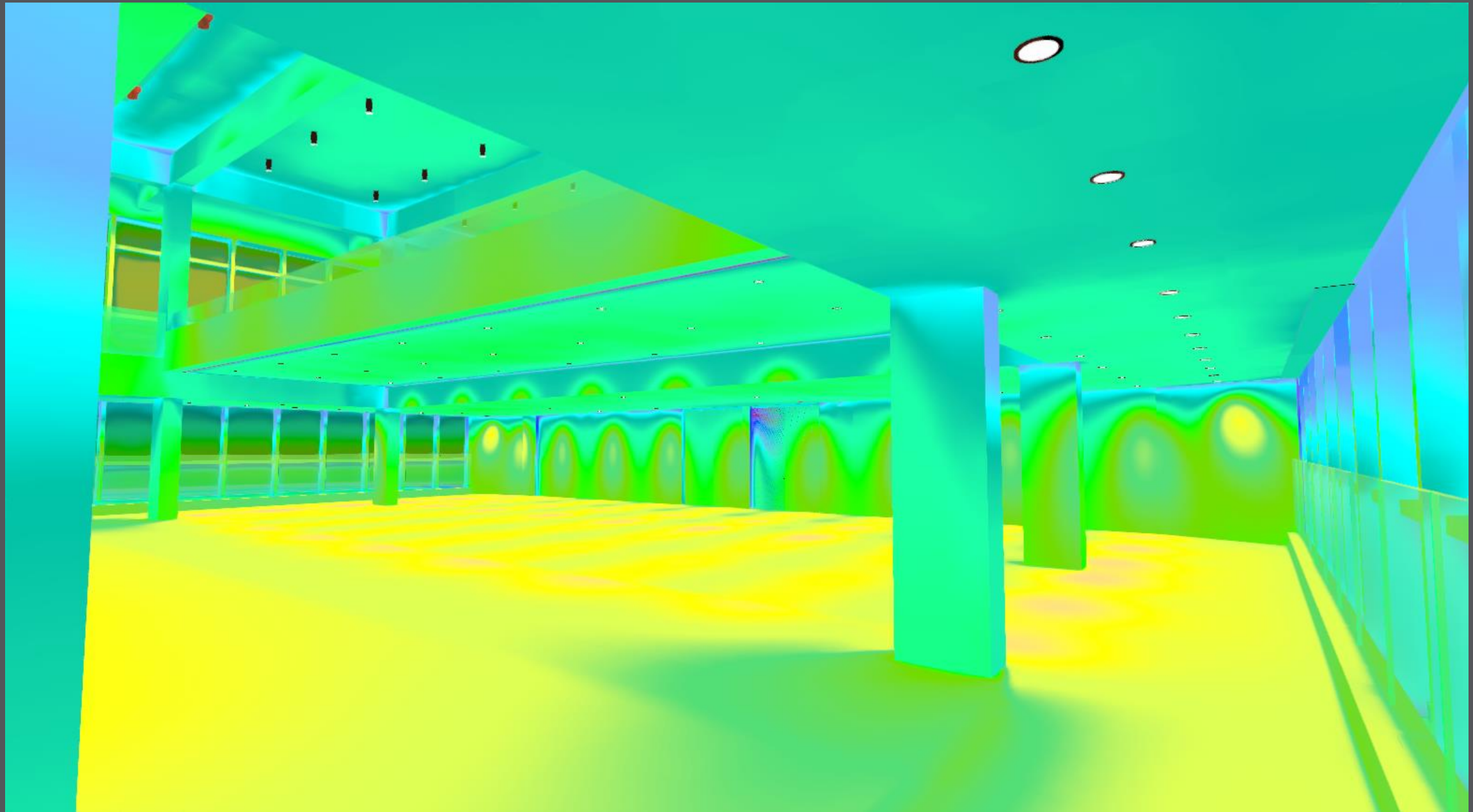
3D FALSE COLOR RENDERING



RENDERING



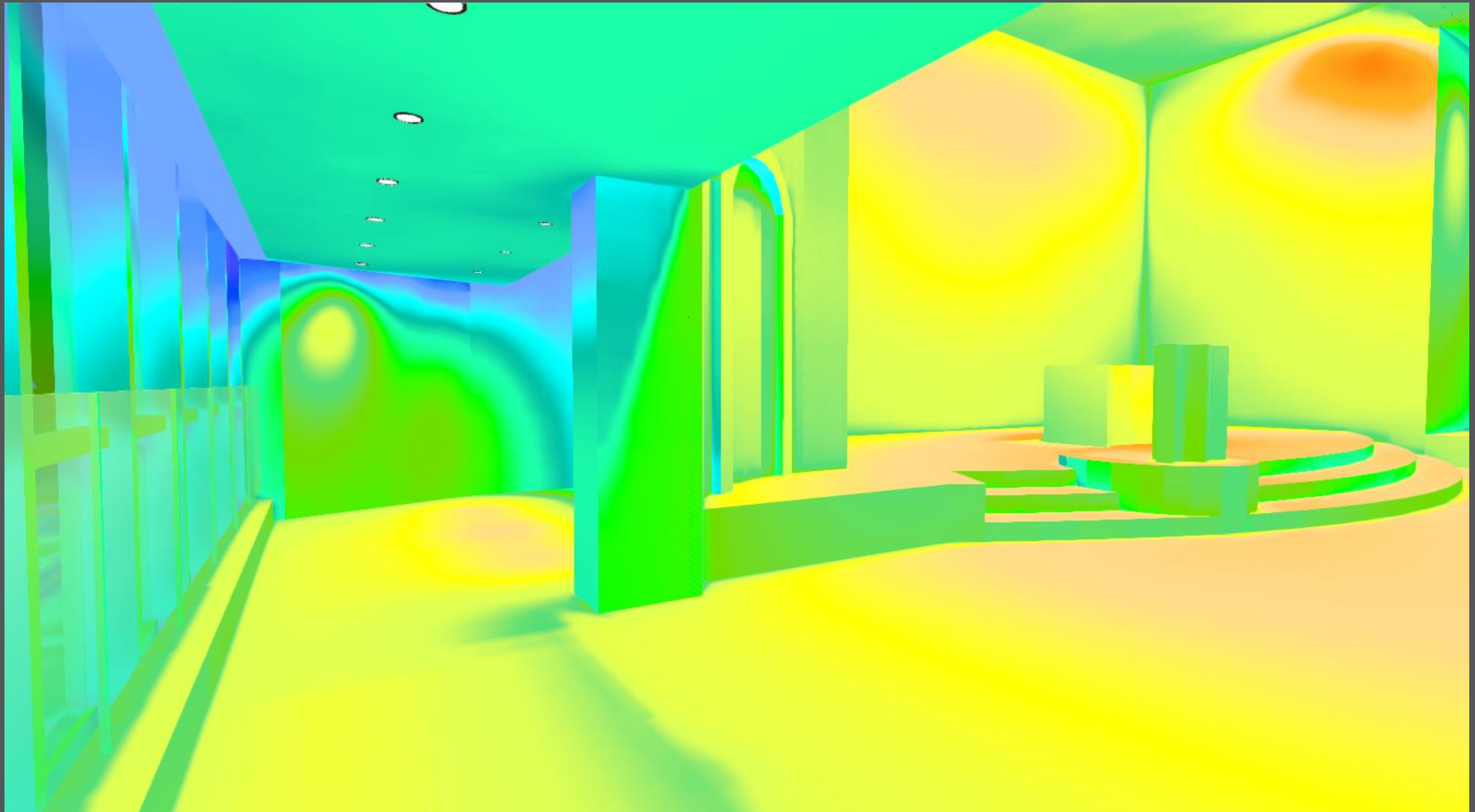
3D FALSE COLOR RENDERING



RENDERING



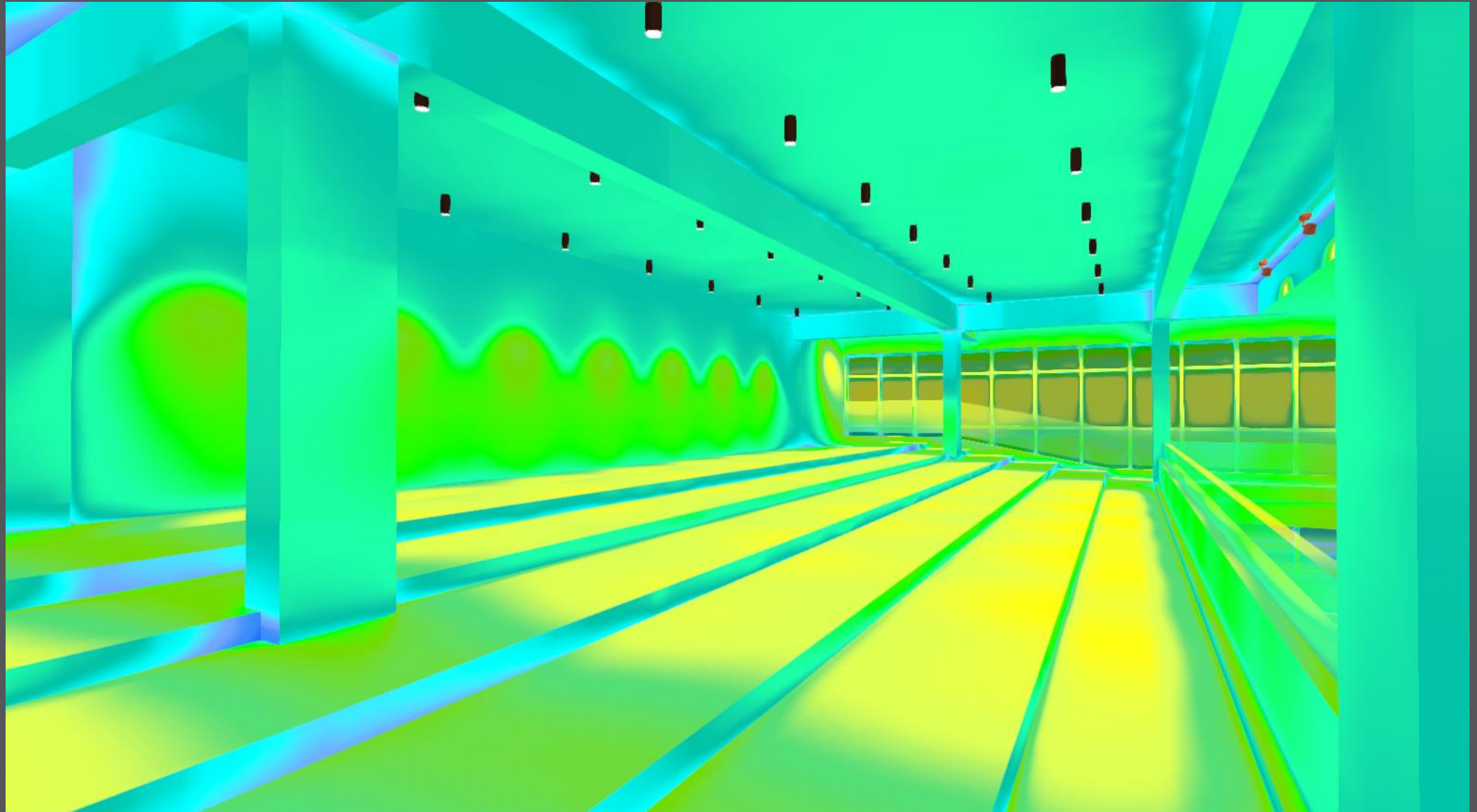
3D FALSE COLOR RENDERING



RENDERING



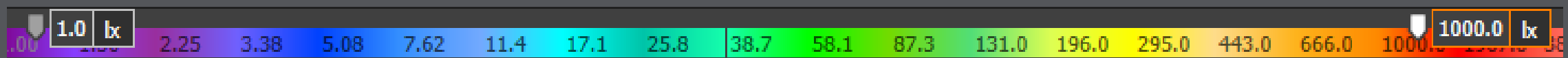
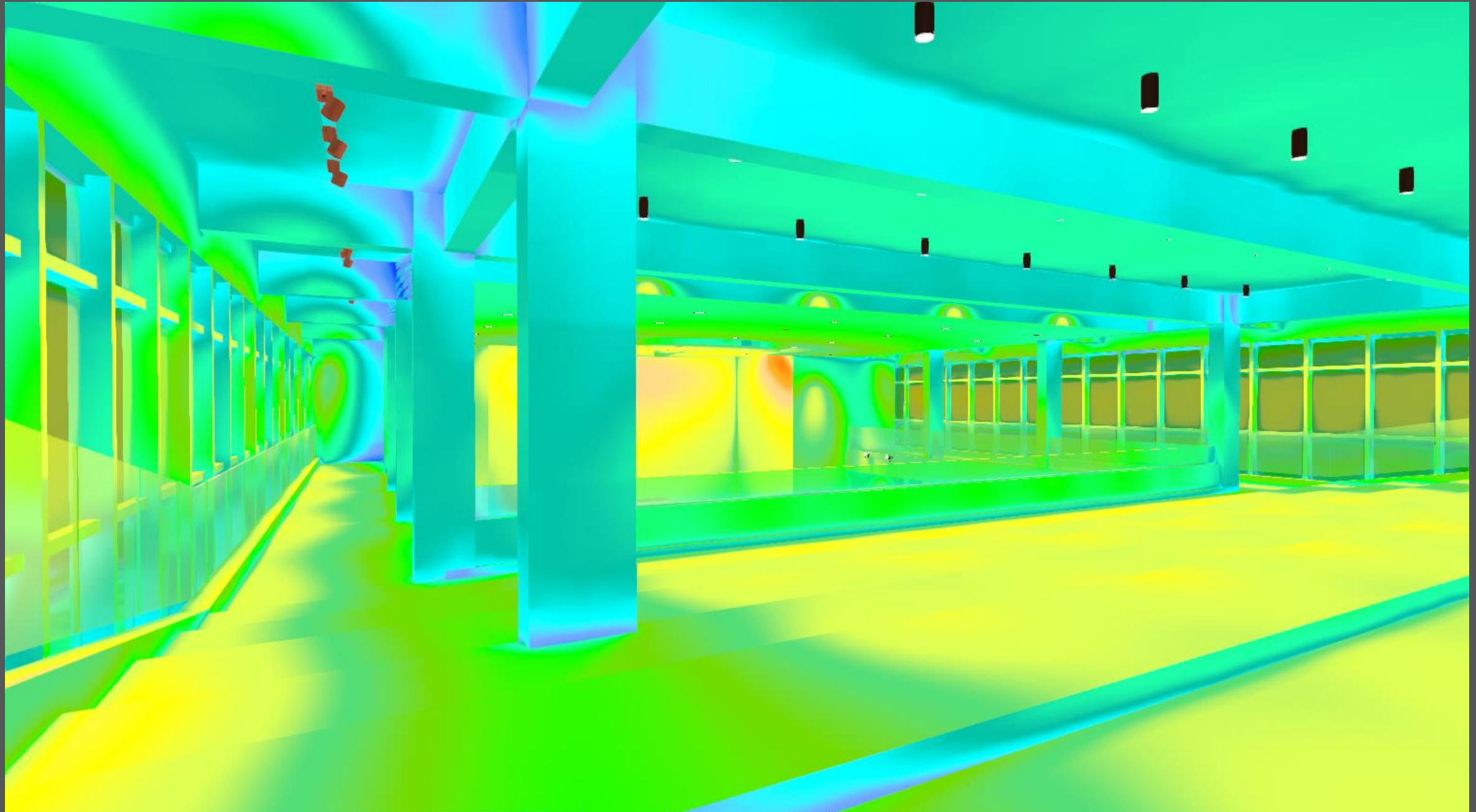
3D FALSE COLOR RENDERING



RENDERING



3D FALSE COLOR RENDERING

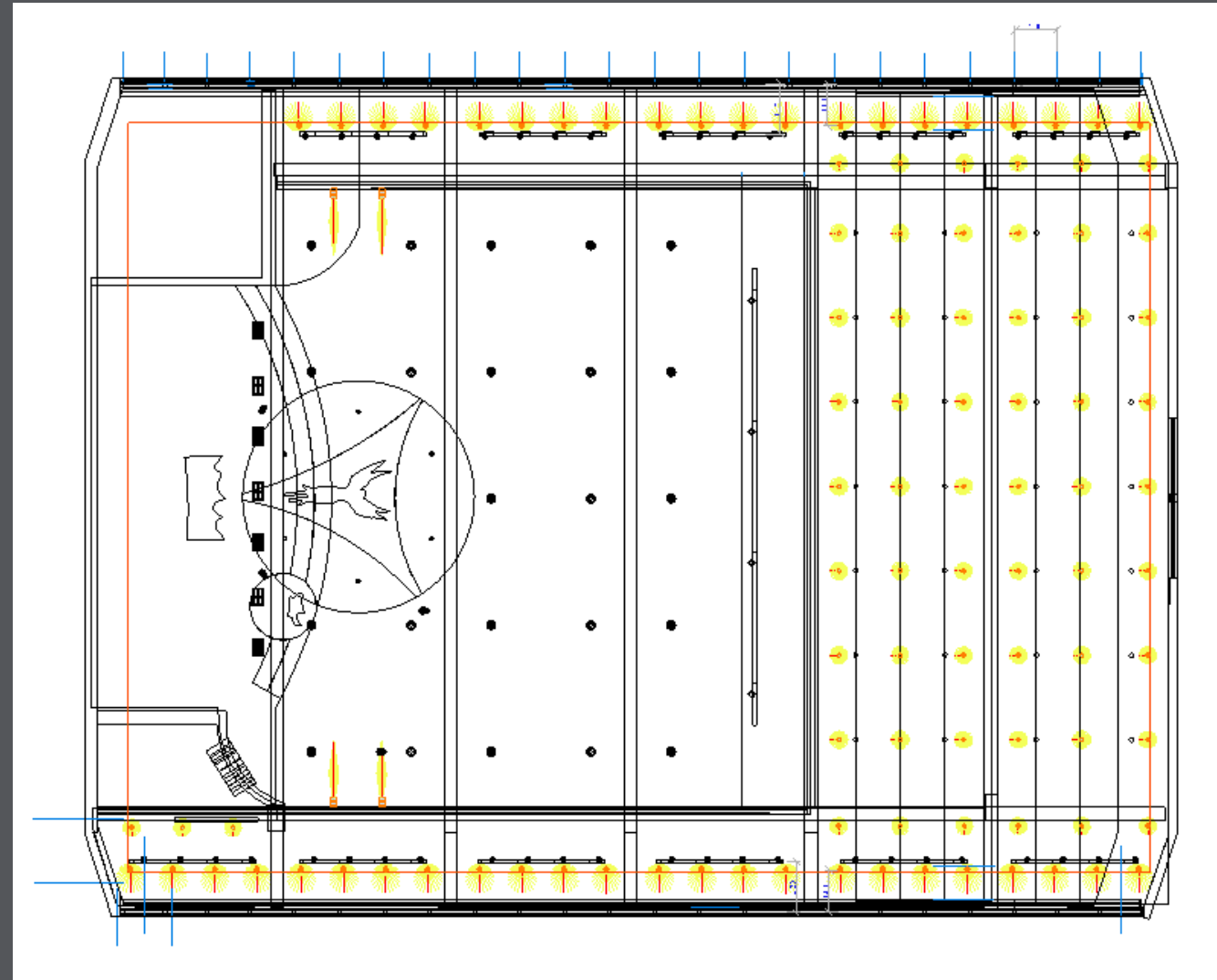


LUMINAIRE LOCATION

GF



LD-50031-M-W30



BK-80011-W-30-ND Baker1



MY-80021-W-30-ND Marys 2



MY-80021-W-30-ND Marys 2



BK-80011-W-30-ND Baker1



LD-50031-M-W30

LUMINAIRE LOCATION

2F



SI-80001-M-30-ND



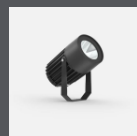
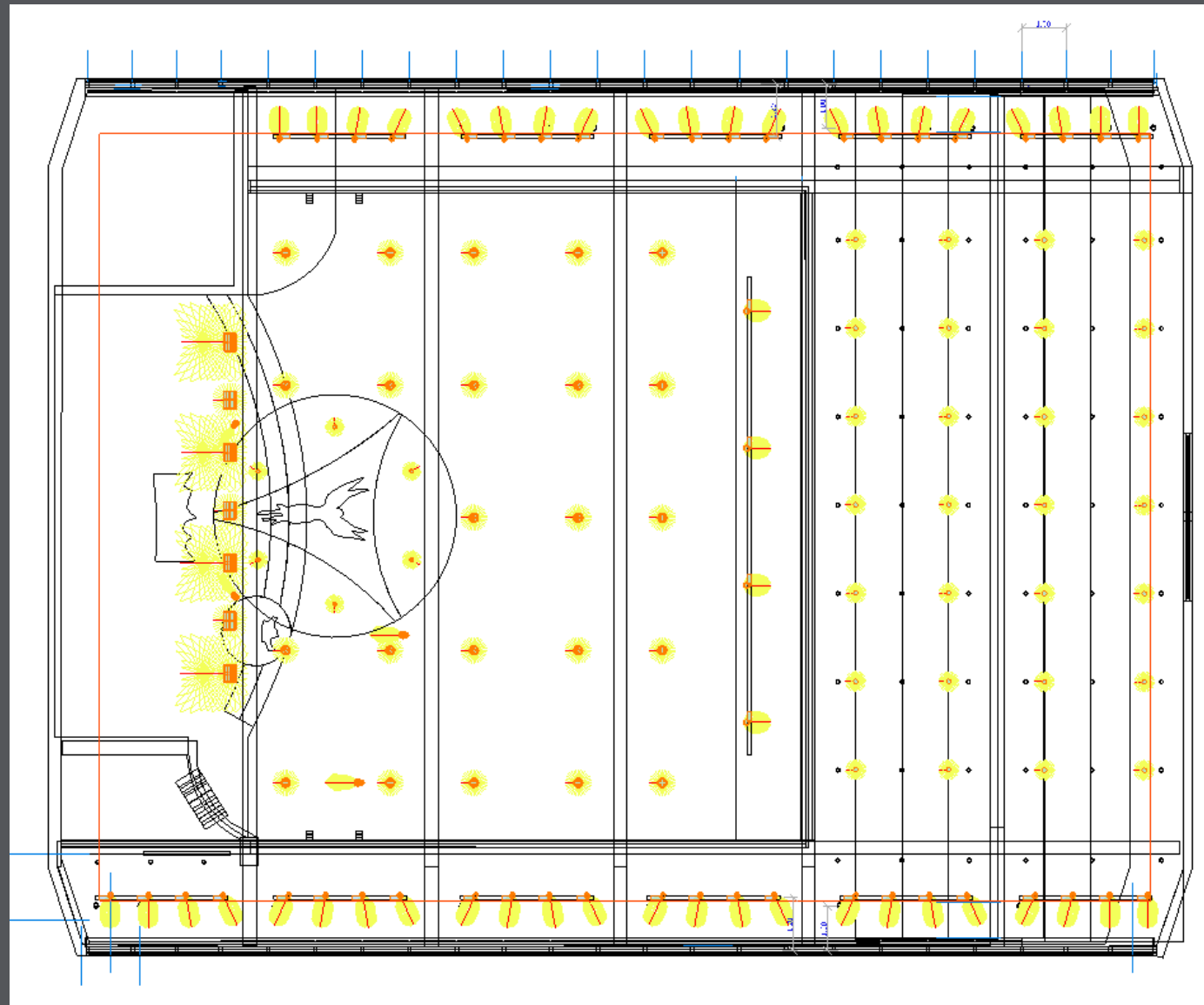
AM-80051-W-30-ND



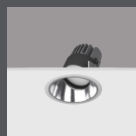
PW29-GP108-EW-W30



PW29-GP108-WB-W30



OD-50011-N-W30



HY-80051-M-30-ND



RY-80051-W-30-ND



RY-80031-W-30-ND Roy 3



JE-80031-W-W30

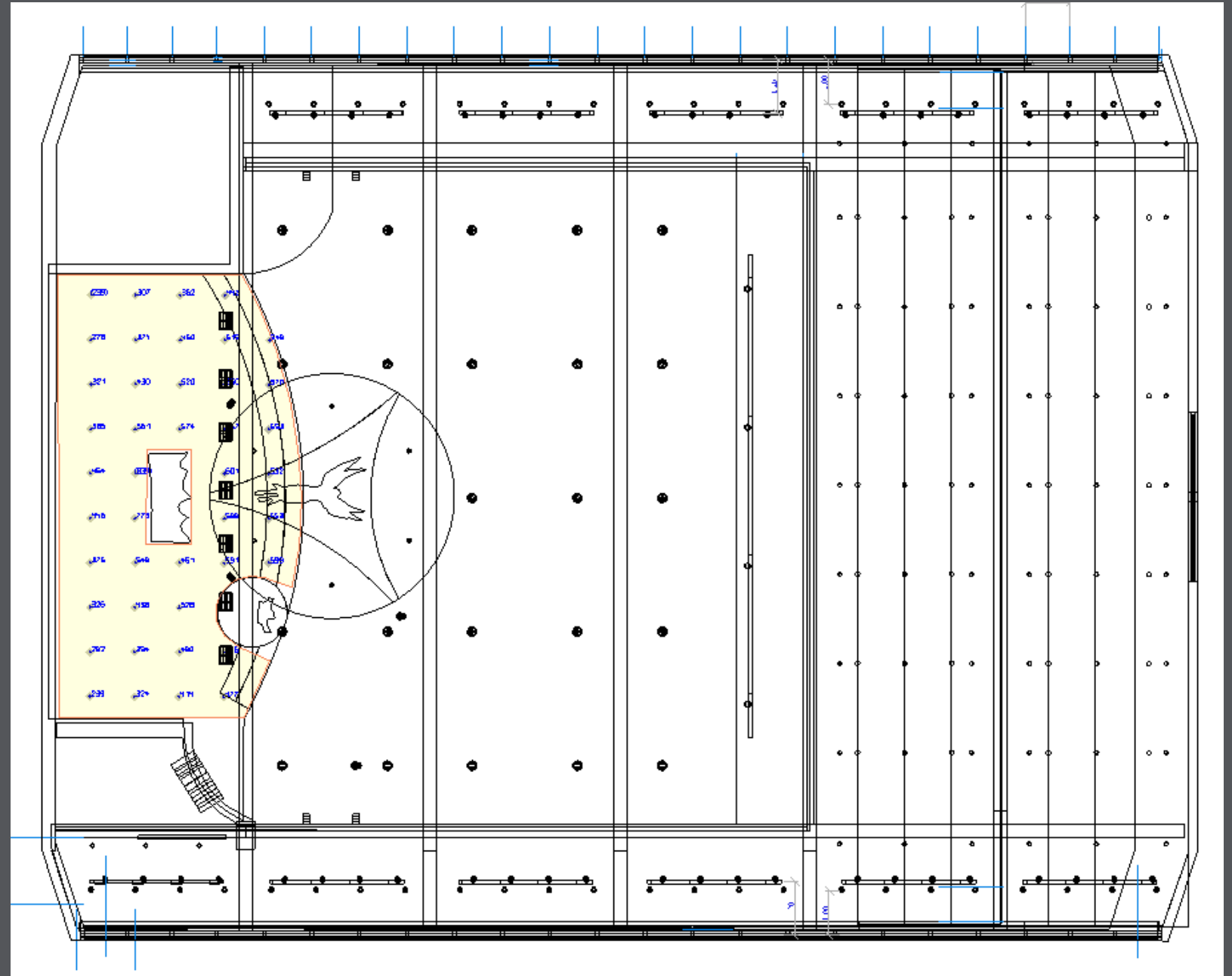


RY-80031-W-30-ND Roy 3

CALCULATION SURFACE

Calculation surface (Perpendicular illuminance)

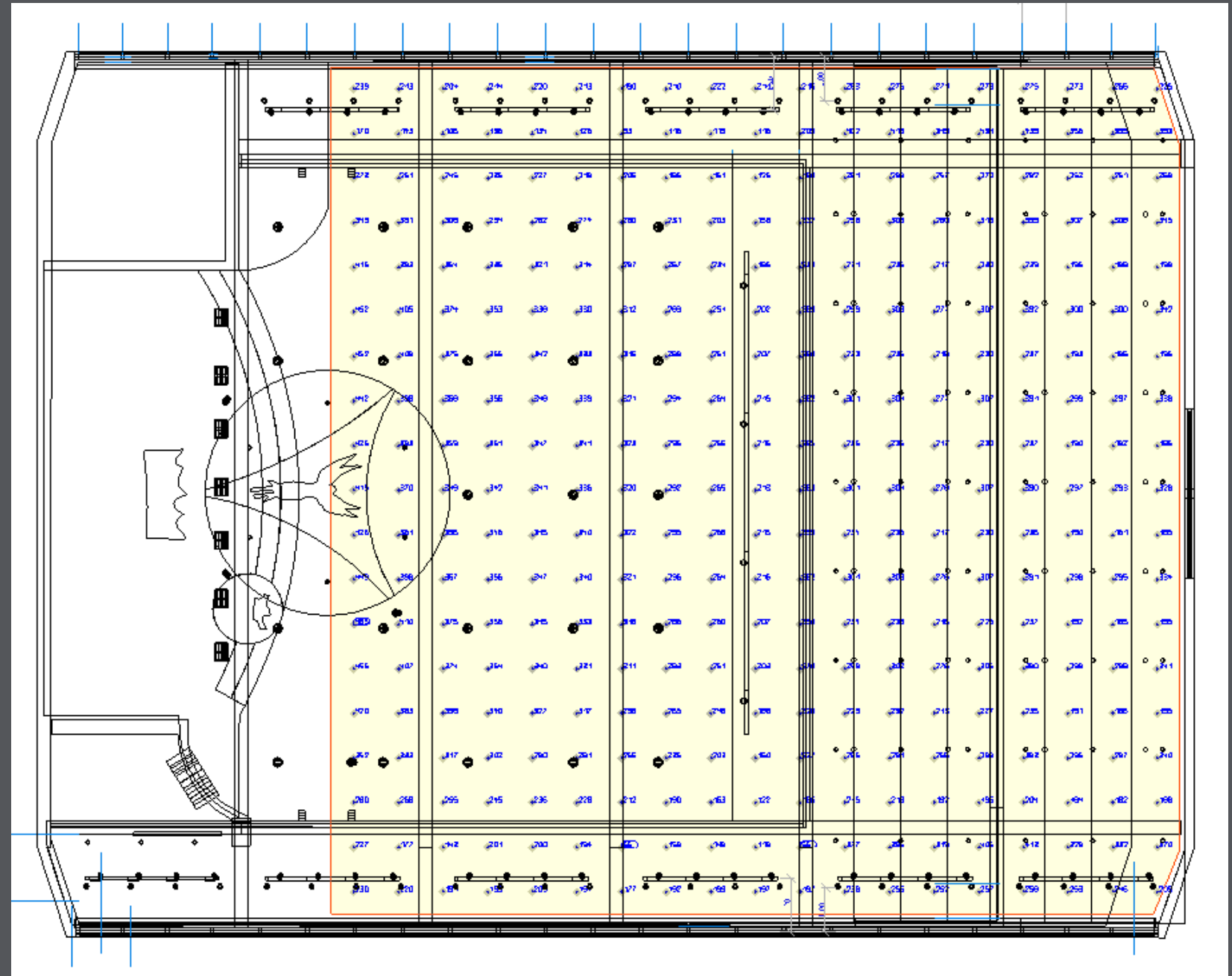
	Actual
Average	475 lx
Min	234 lx
Max	834 lx
Min/average	0.49
Min/max	0.28



CALCULATION SURFACE

Calculation surface (Perpendicular illuminance)

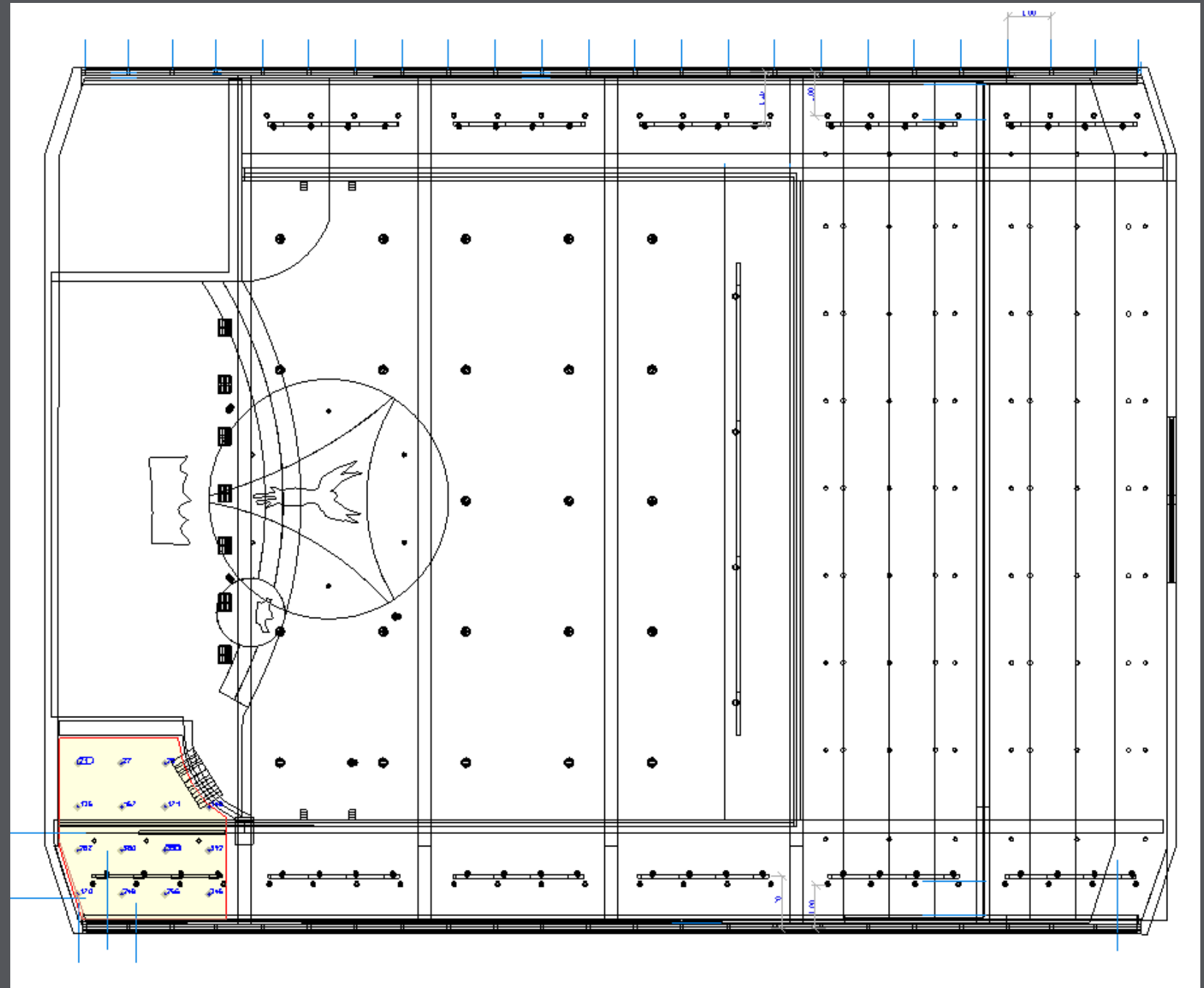
	Actual
Average	274 lx
Min	55.8 lx
Max	465 lx
Min/average	0.20
Min/max	0.12



CALCULATION SURFACE

Calculation surface (Perpendicular illuminance)

	Actual
Average	200 lx
Min	20.9 lx
Max	390 lx
Min/average	0.10
Min/max	0.05



CALCULATION SURFACE

Calculation surface (Perpendicular illuminance)

Actual

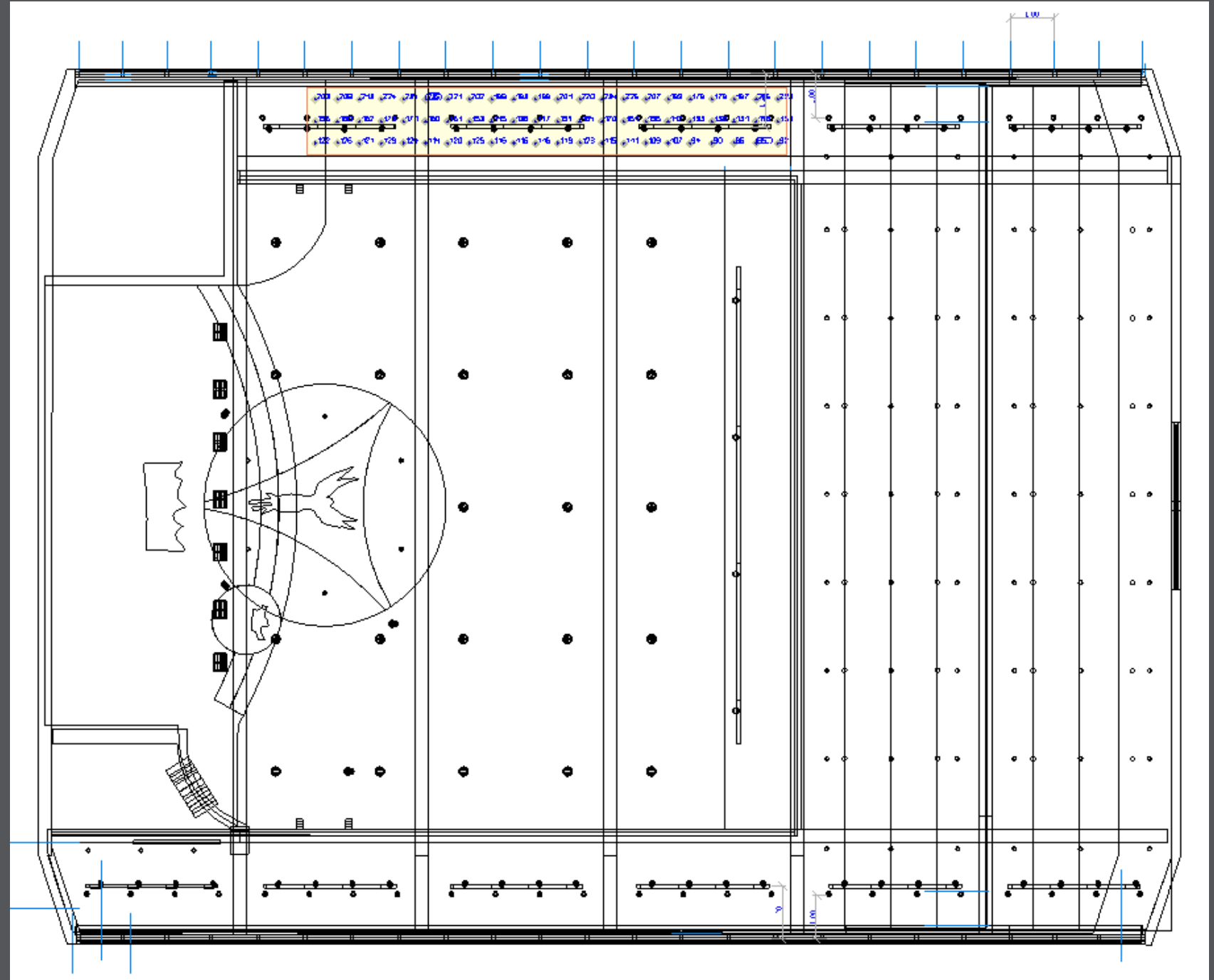
Average 157 lx

Min 84.8 lx

Max 235 lx

Min/average 0.54

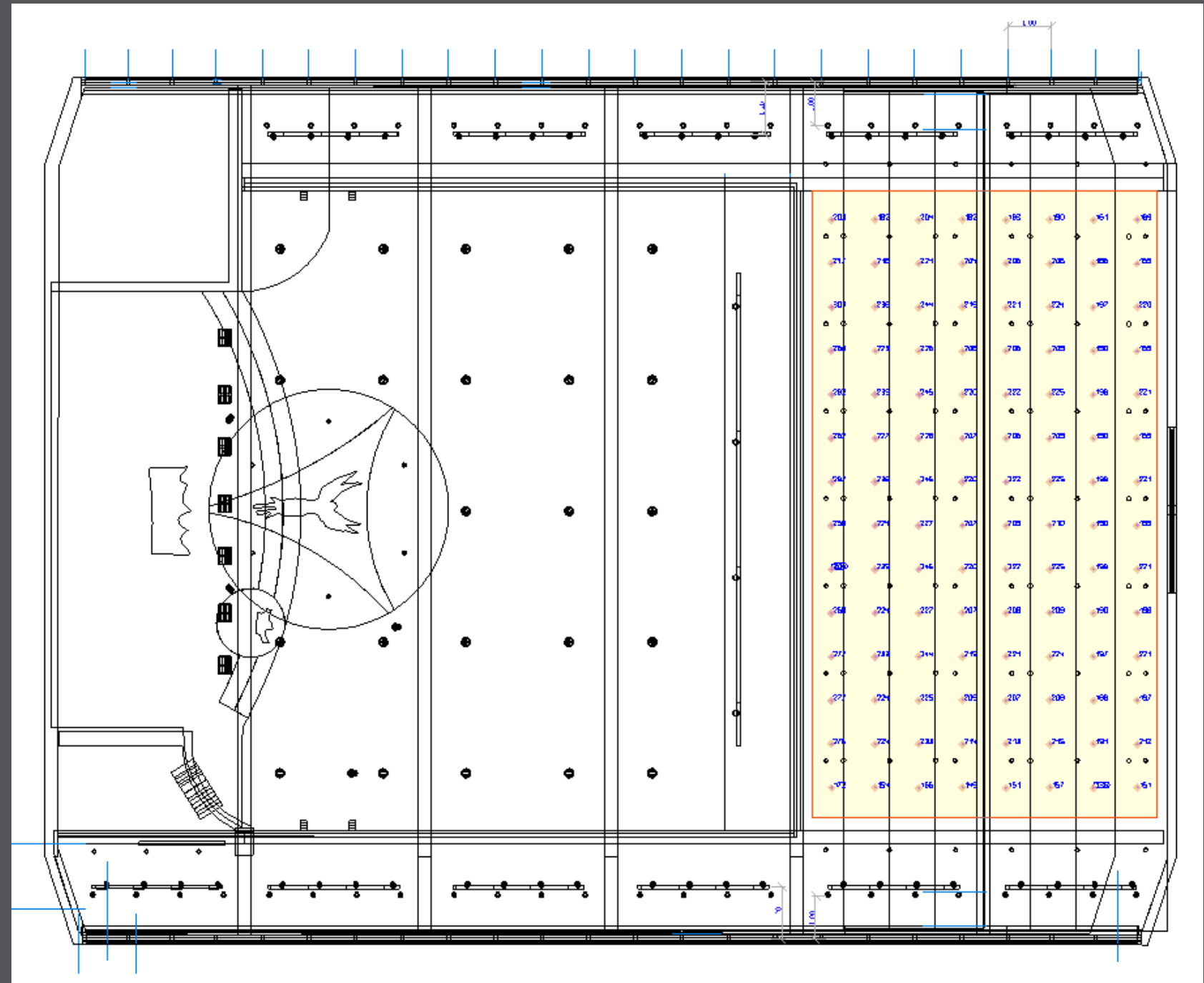
Min/max 0.36




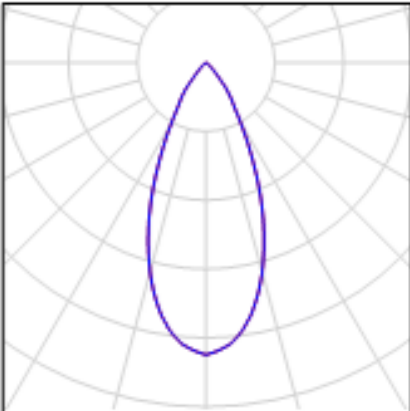

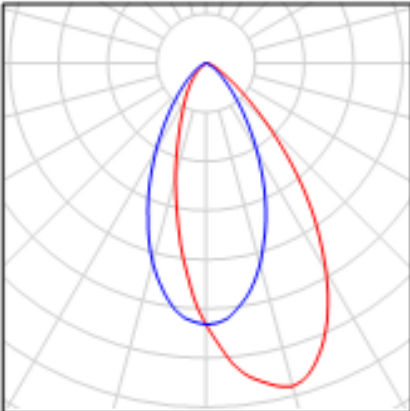

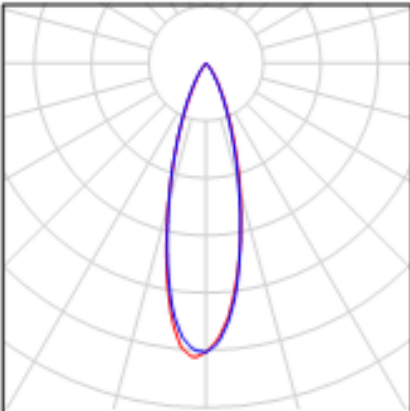
CALCULATION SURFACE

Calculation surface (Perpendicular illuminance)

	Actual
Average	215 lx
Min	136 lx
Max	304 lx
Min/average	0.63
Min/max	0.45



LUMINAIRE SELECTION

Quantity	Luminaire (Luminous emittance)		
23	<p>Ligman Lighting Co.,Ltd. - AM-80051-W-30-ND Amos 4 Recessed LED Luminous emittance 1 Fitting: 1xAM-80051-W-30 Absolute photometry Luminaire luminous flux: 2522 lm Power: 38.4 W Luminous efficacy: 65.7 lm/W</p> <p>Colorimetric data 1xAM-80051-W-30: CCT 3114 K, CRI 84</p>		
44	<p>Ligman Lighting Co.,Ltd. - BK-80011-W-30-ND Baker 1 Recessed LED Luminous emittance 1 Fitting: 1xBK-80011-W-30 Absolute photometry Luminaire luminous flux: 537 lm Power: 11.8 W Luminous efficacy: 45.5 lm/W</p> <p>Colorimetric data 1xBK-80011-W-30: CCT 3114 K, CRI 84</p>		
2	<p>Ligman Lighting Co.,Ltd. - HY-80051-M-30-ND Hays 4 Recessed LED Luminous emittance 1 Fitting: 1xHY-80051-M-30 Absolute photometry Luminaire luminous flux: 1617 lm Power: 27.7 W Luminous efficacy: 58.4 lm/W</p> <p>Colorimetric data 1xHY-80051-M-30: CCT 3114 K, CRI 84</p>		

LUMINAIRE SELECTION

28

Ligman Lighting Co.,Ltd. - JE-80031-W-W30 Jet surface exterior downlight LED

Luminous emittance 1

Fitting: 1xJE-80031-W-W30

Absolute photometry

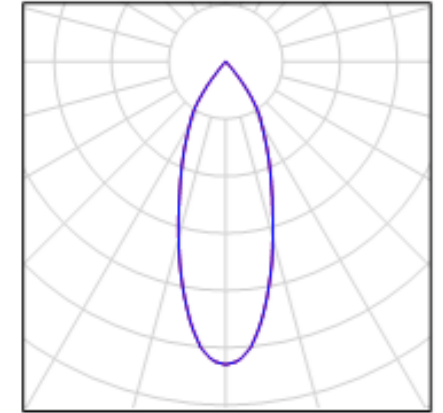
Luminaire luminous flux: 1085 lm

Power: 15.0 W

Luminous efficacy: 72.3 lm/W

Colorimetric data

1xJE-80031-W-W30: CCT 3114 K, CRI 84



4

Ligman Lighting Co.,Ltd. - LD-50031-M-W30 Lador Floodlights LED

Luminous emittance 1

Fitting: 1xLD-50031-M-W30

Absolute photometry

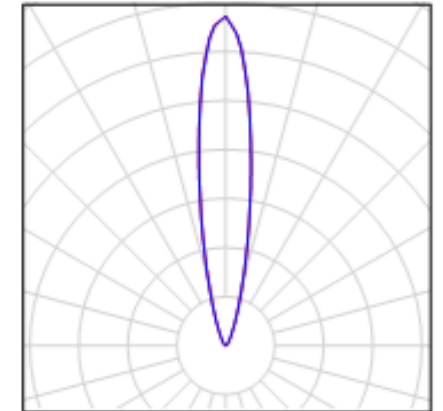
Luminaire luminous flux: 2951 lm

Power: 38.5 W

Luminous efficacy: 76.6 lm/W

Colorimetric data

1xLD-50031-M-W30: CCT 3783 K, CRI 84



57

Ligman Lighting Co.,Ltd. - MY-80021-W-30-ND Marys 2 Recessed Downlight LED

Luminous emittance 1

Fitting: 1xMY-80021-W-30

Absolute photometry

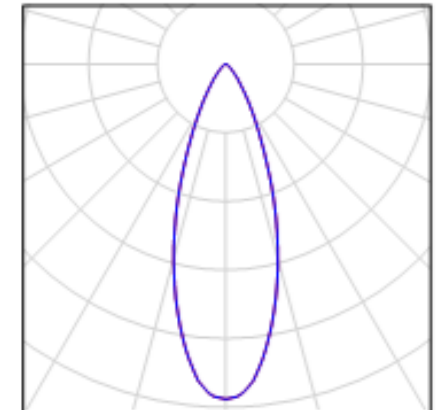
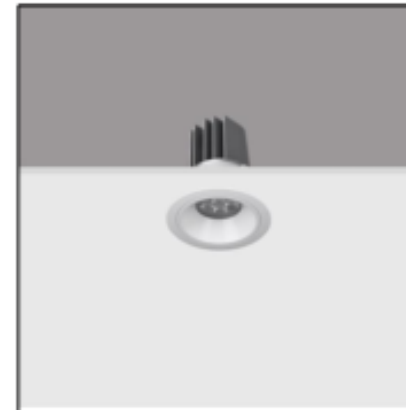
Luminaire luminous flux: 893 lm

Power: 11.8 W


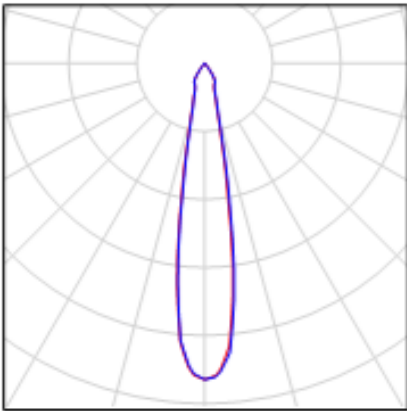
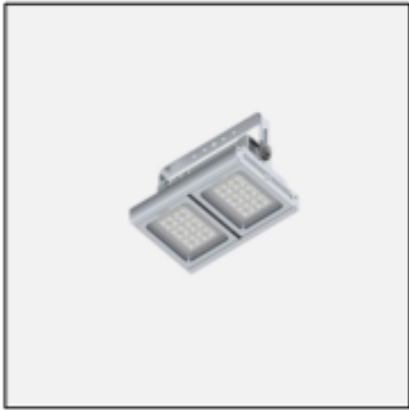
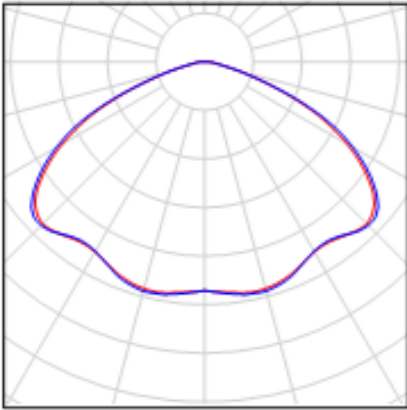

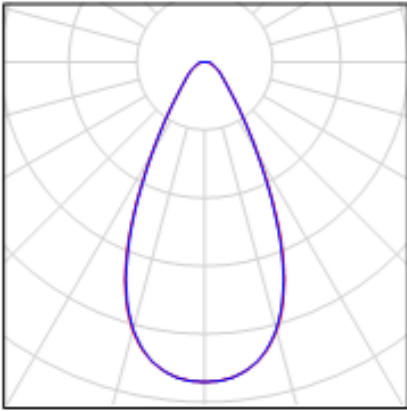
Luminous efficacy: 75.7 lm/W

Colorimetric data


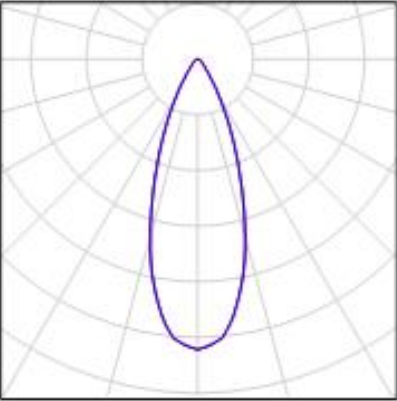

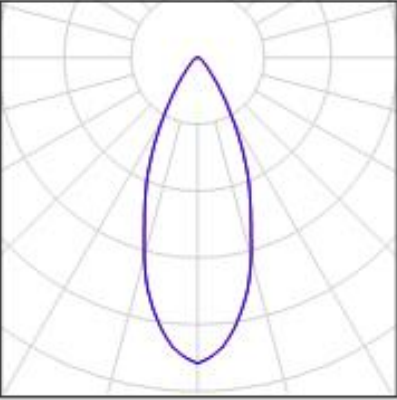

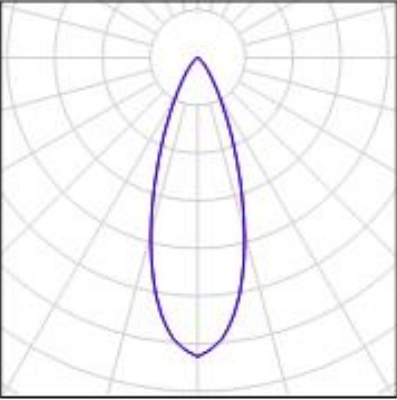
1xMY-80021-W-30: CCT 3114 K, CRI 84



LUMINAIRE SELECTION

Quantity	Luminaire (Luminous emittance)		
2	<p>Ligman Lighting Co.,Ltd. - OD-50011-N-W30 Odessa 2 Floodlights LED</p> <p>Luminous emittance 1 Fitting: 1xOD-50011-N-W30 Absolute photometry Luminaire luminous flux: 3390 lm Power: 36.8 W Luminous efficacy: 92.1 lm/W</p> <p>Colorimetric data 1xOD-50011-N-W30: CCT 3114 K, CRI 84</p>		
4	<p>Ligman Lighting Co.,Ltd. - PW29-GP108-EW-W30 PowerVision 2 Surface high bay and lowbay luminaire LED</p> <p>Luminous emittance 1 Fitting: 1xPW29-GP108-EW-W30 Absolute photometry Luminaire luminous flux: 9674 lm Power: 105.0 W Luminous efficacy: 92.1 lm/W</p> <p>Colorimetric data 1xPW29-GP108-EW-W30: CCT 3114 K, CRI 84</p>		
3	<p>Ligman Lighting Co.,Ltd. - PW29-GP108-WB-W30 PowerVision 2 Surface high bay and lowbay luminaire LED</p> <p>Luminous emittance 1 Fitting: 1xPW29-GP108-WB-W30 Absolute photometry Luminaire luminous flux: 9081 lm Power: 105.0 W Luminous efficacy: 86.5 lm/W</p> <p>Colorimetric data 1xPW29-GP108-WB-W30: CCT 3114 K, CRI 84</p>		

LUMINAIRE SELECTION

Quantity	Luminaire (Luminous emittance)		
44	<p>Ligman Lighting Co.,Ltd. - RY-80031-W-27-ND Roy 3 Projector track light LED Luminous emittance 1 Fitting: 1xRY-80031-W-27-ND Absolute photometry Luminaire luminous flux: 1017 lm Power: 14.8 W Luminous efficacy: 68.7 lm/W</p> <p>Colorimetric data 1xRY-80031-W-27-ND: CCT 3000 K, CRI 82</p>		
4	<p>Ligman Lighting Co.,Ltd. - RY-80051-W-30-ND Roy 4 Projector LED Luminous emittance 1 Fitting: 1xRY-80051-W-30-ND Absolute photometry Luminaire luminous flux: 2147 lm Power: 27.2 W Luminous efficacy: 78.9 lm/W</p> <p>Colorimetric data 1xRY-80051-W-30-ND: CCT 3114 K, CRI 84</p>		
6	<p>Ligman Lighting Co.,Ltd. - SI-80001-M-30-DA Sidney 1 Recessed LED Luminous emittance 1 Fitting: 1xSI-80001-M-30 Absolute photometry Luminaire luminous flux: 278 lm Power: 5.5 W Luminous efficacy: 50.6 lm/W</p> <p>Colorimetric data 1xSI-80001-M-30: CCT 3114 K, CRI 84</p>		

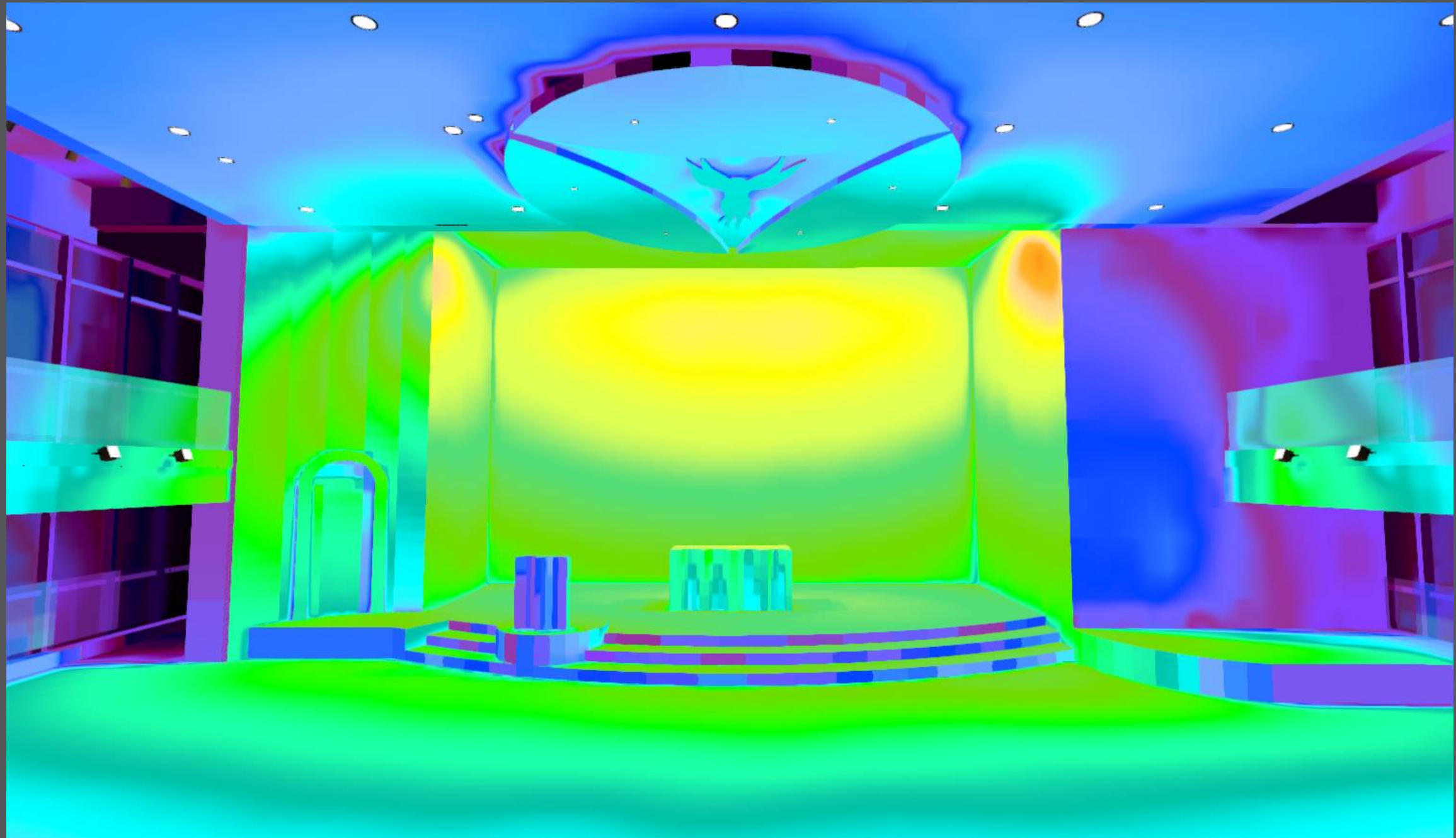
RENDERING

ONLY MOSAIC TILE WALL WASHER LIGHT ON



3D FALSE COLOR RENDERING

ONLY MOSAIC TILE WALL WASHER LIGHT ON



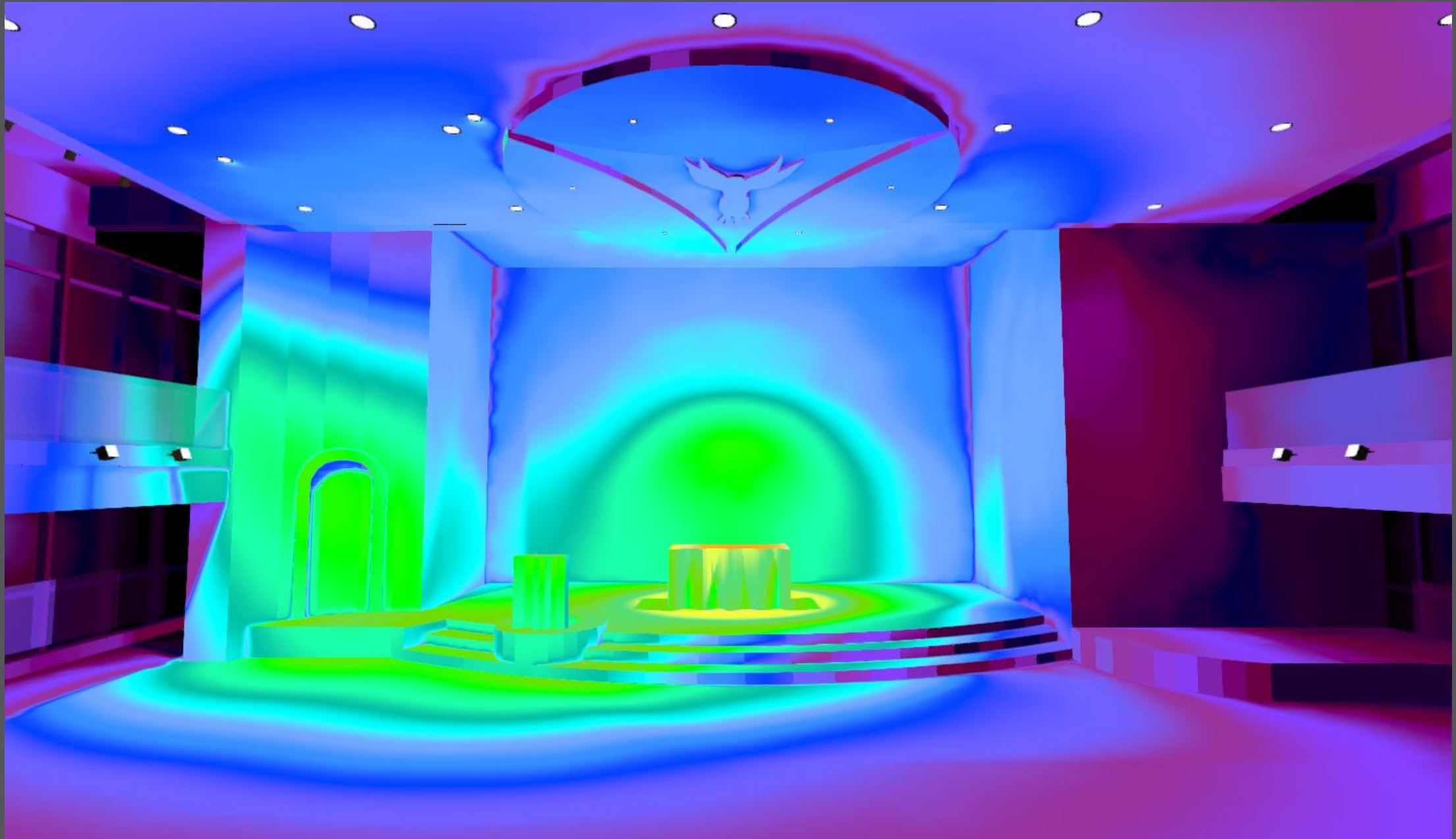
RENDERING

ONLY SPOT LIGHT ON



3D FALSE COLOR RENDERING

ONLY SPOT LIGHT ON



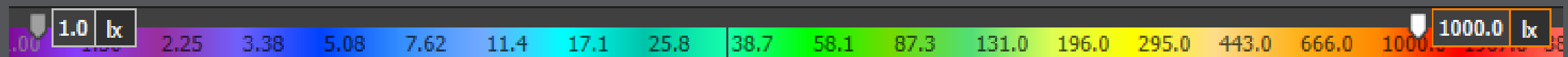
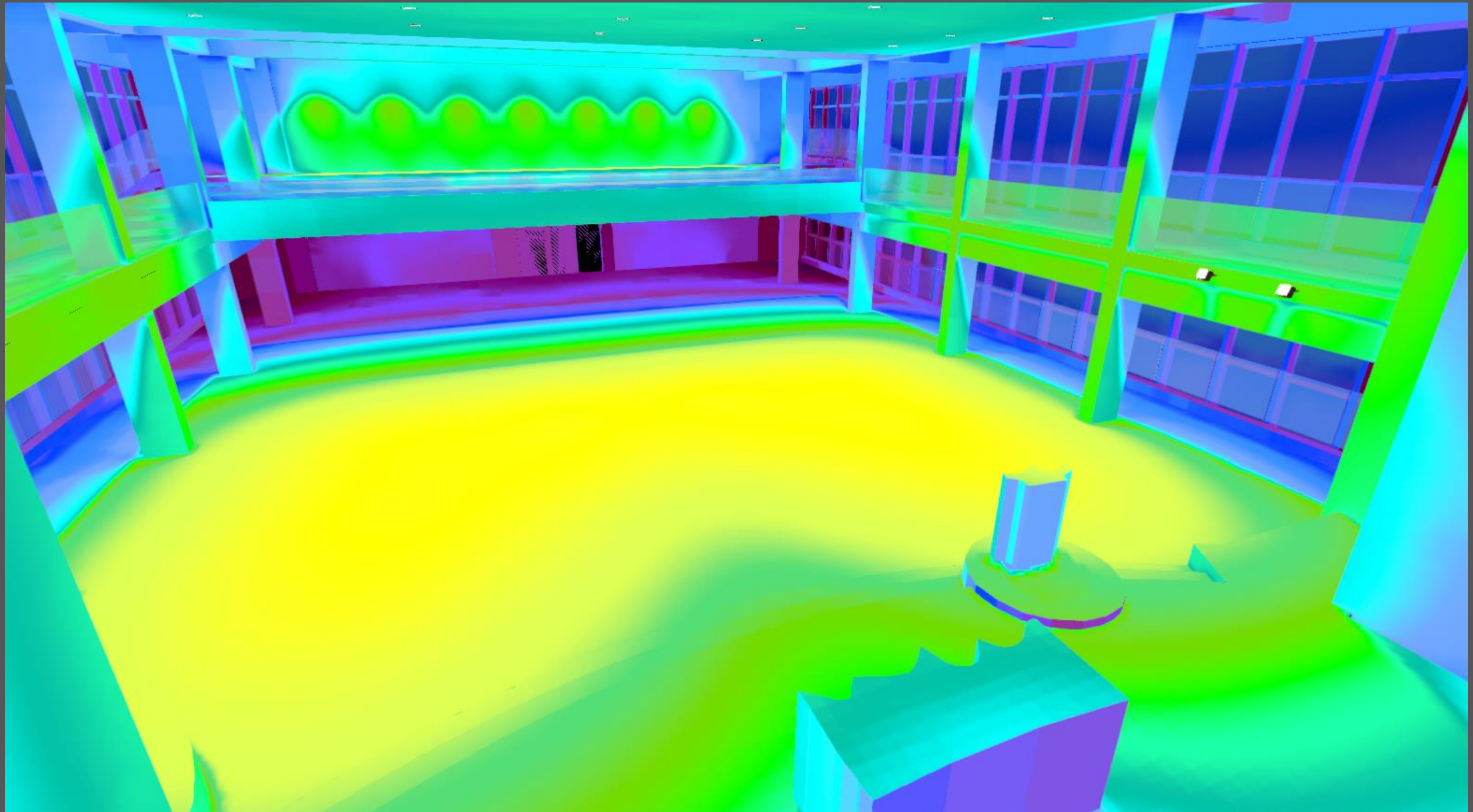
RENDERING

ALL TOP CEILING LIGHTS ON



3D FALSE COLOR RENDERING

ALL TOP CEILING LIGHTS ON



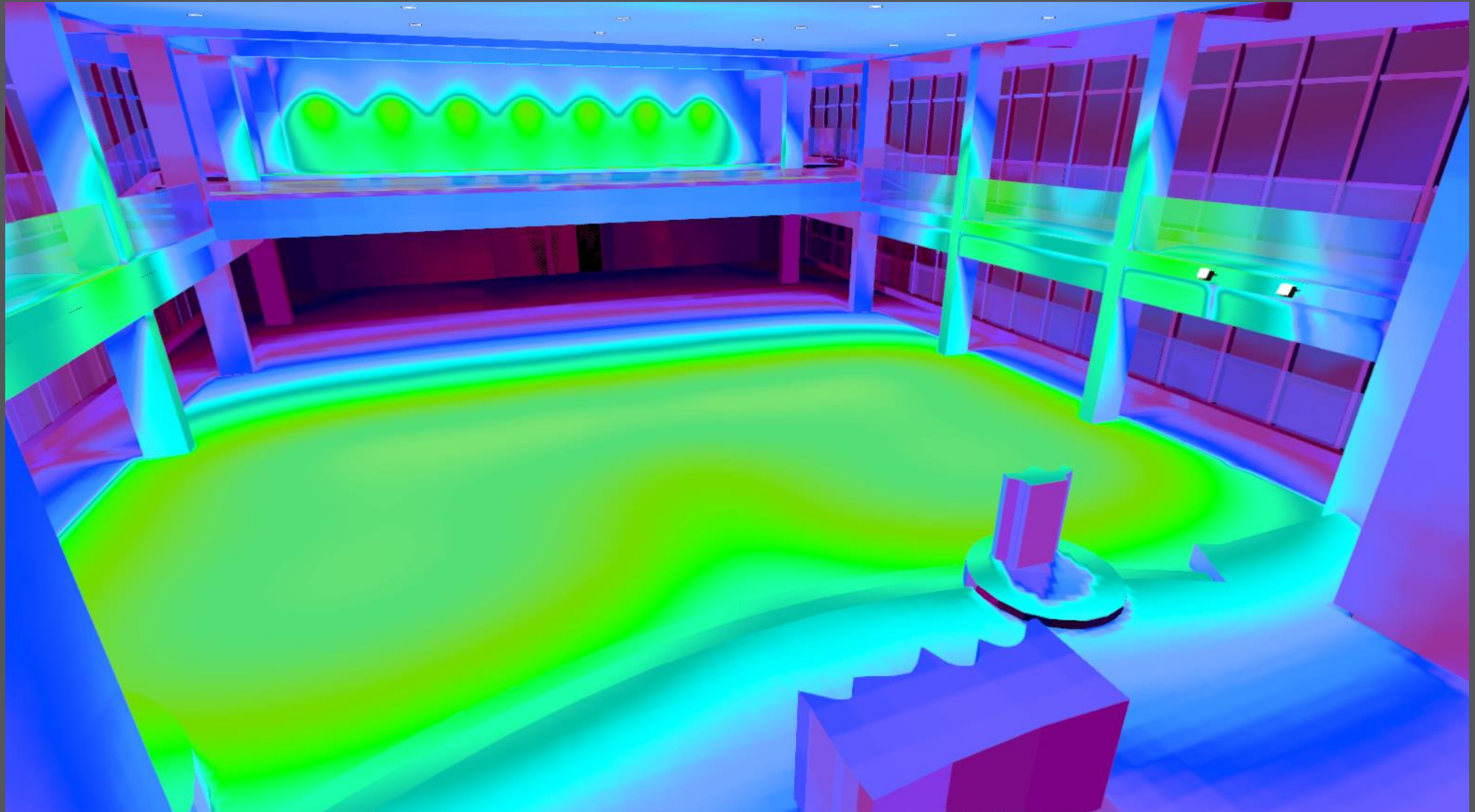
RENDERING

HALF TOP CEILING LIGHTS ON



3D FALSE COLOR RENDERING

HALF TOP CEILING LIGHTS ON



End

Thank you!