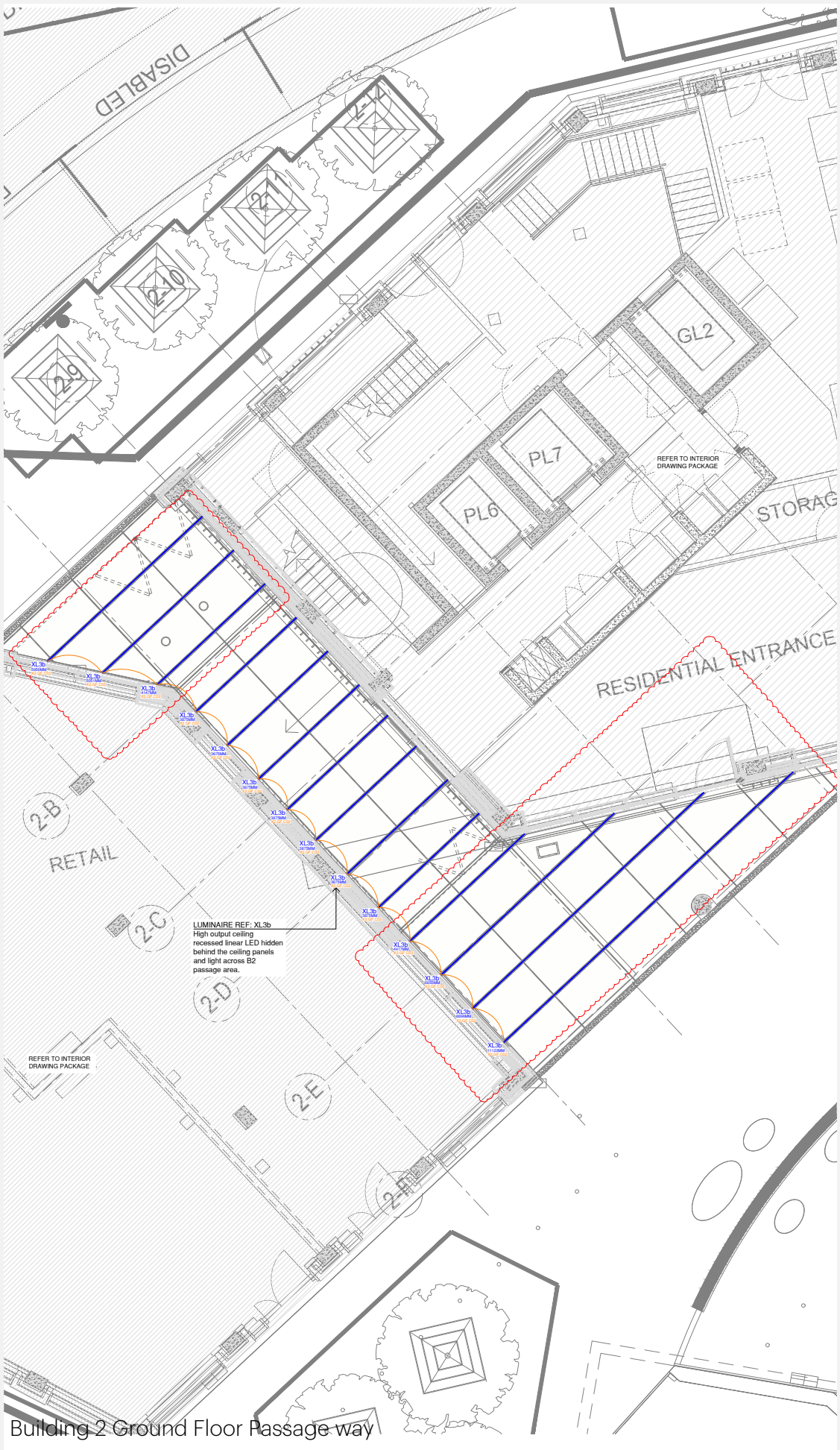


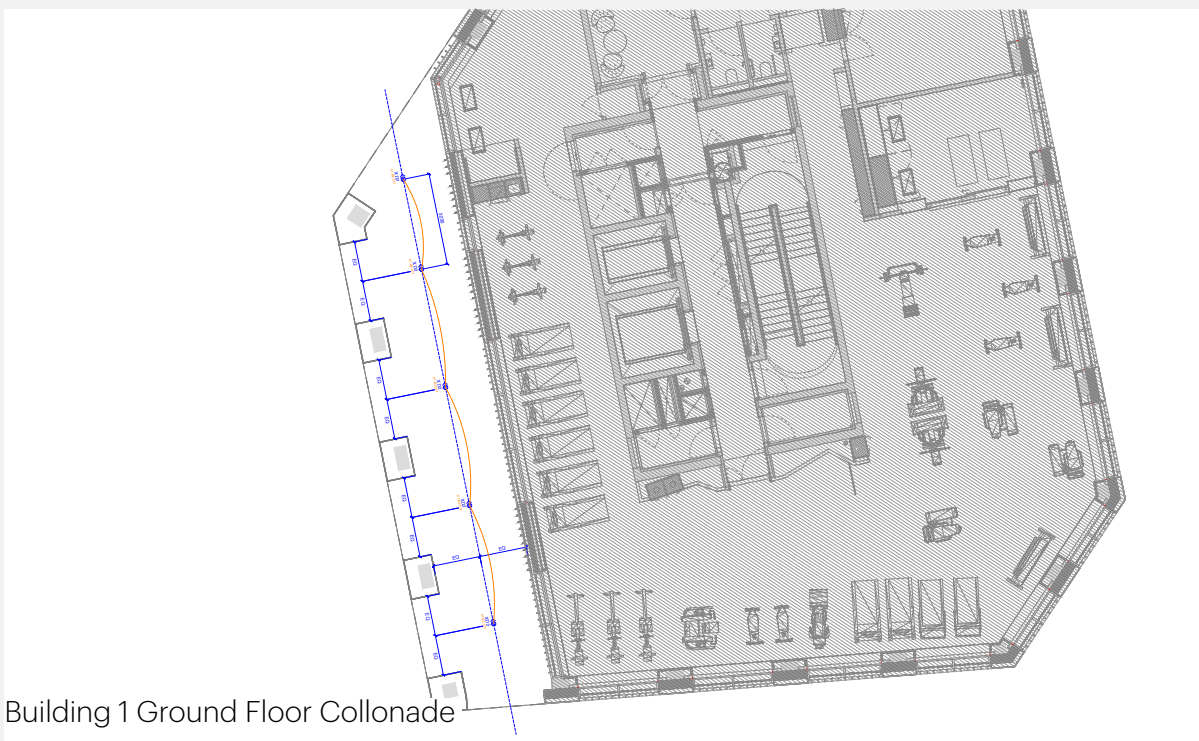
Alternative Design - Layout and Specification



Building 2 Ground Floor Passage way



Building 1 Ground Floor Collonade and Passage way



Building 1 Ground Floor Collonade



XD1 **NEW**
Description : Ceiling Recessed Downlight with 30° beam angle
Manufacturer : Phos
Product : Maxi Eclipse Trim Fixed
Wattage : 23.9 W
Lumen Output : 1478 Lm
Total QTY (area) : 34no.
Change Reason: Consistency of manufacturer and therefore colour temperature



XD2 **NEW**
Description : Ceiling Recessed Downlight with 15° beam angle
Manufacturer : Phos
Product : Maxi Eclipse Trim Fixed
Wattage : 23.9 W
Lumen Output : 1478 Lm
Total QTY (area) : 5no.
Change Reason: Consistency of manufacturer and therefore colour temperature



XL3a **NEW**
Description : Suspended Mounted Linear LED
Manufacturer : No Grey Area
Product : NGA5575 + 2x NGA/LL/SP/1/180/14.4/2700/65
Wattage : 19.2W/m
Lumen Output : 1245Lm/w
Total QTY (area) : 50.75M
Change Reason: Reduced output more appropriate for its location

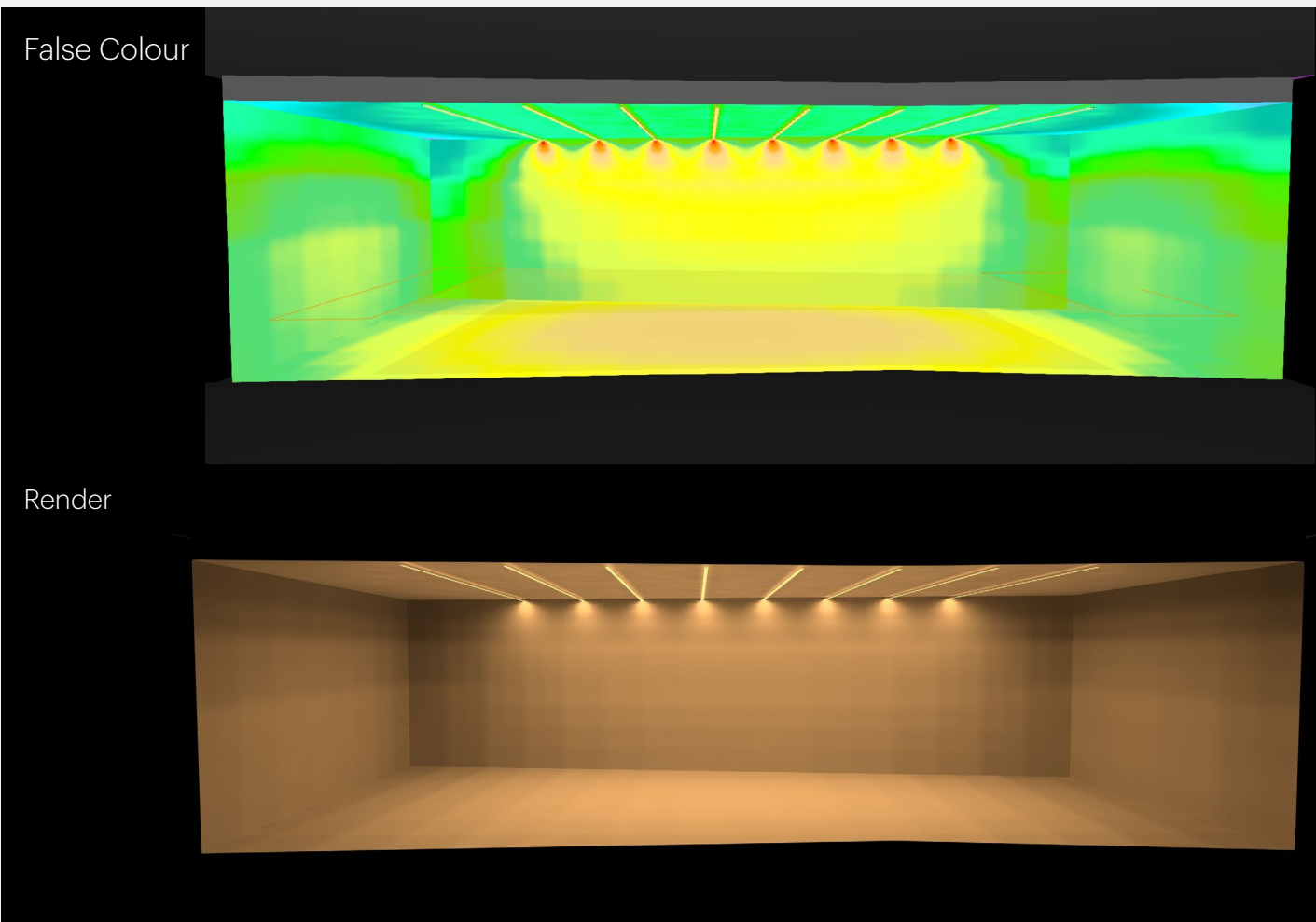


XL3b **NEW**
Description : Recessed Mounted Linear LED
Manufacturer : No Grey Area
Product : NGA7075 + 2x NGA/LL/SP/1/180/14.4/2700/65
Wattage : 19.2W/m
Lumen Output : 1659Lm/w
Total QTY (area) : 27.5M
Change Reason: Reduced output more appropriate for its location

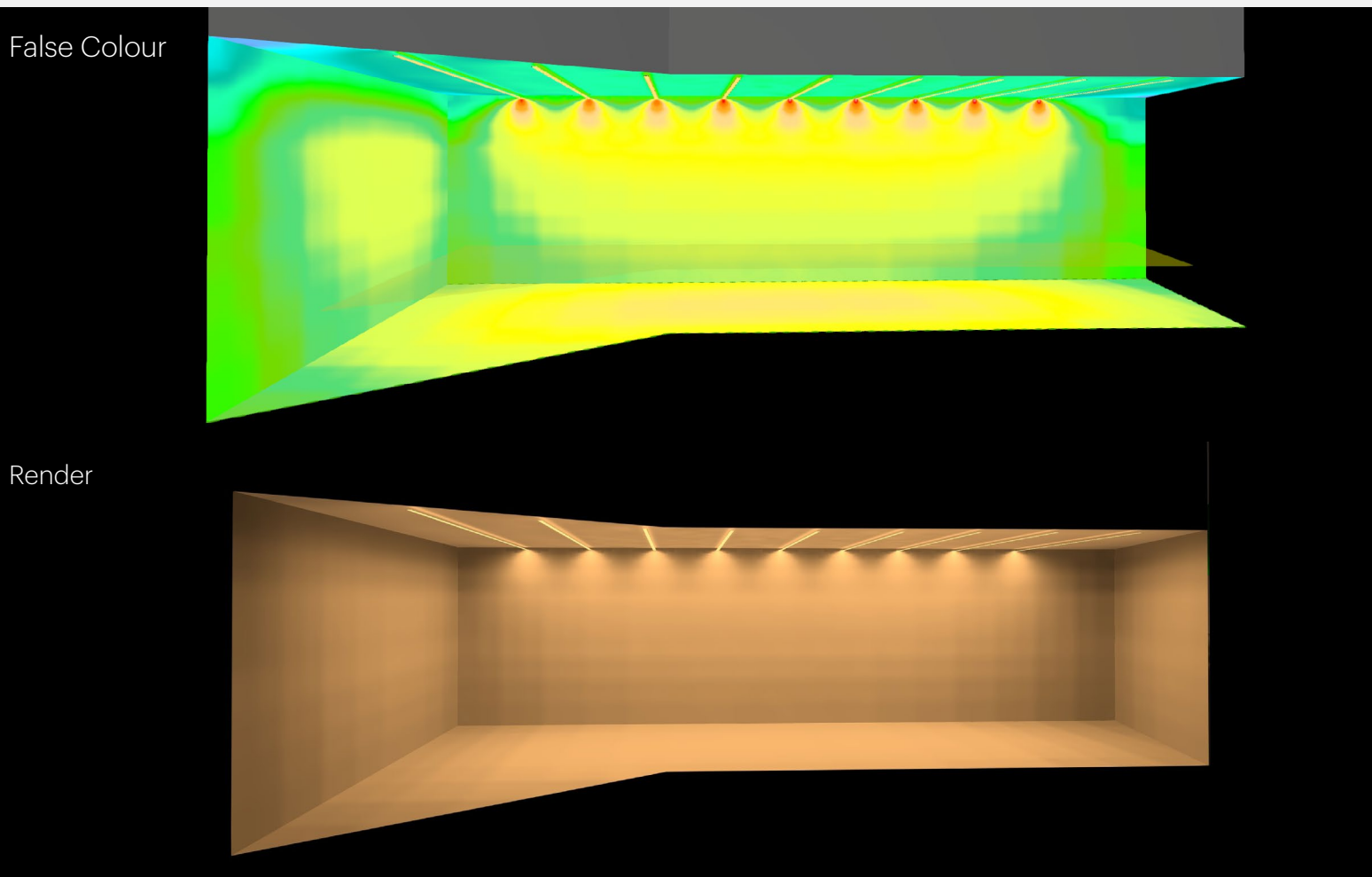
Please note that all costs exclude VAT, drivers and related accessories.

Alternative Design - Calculation Result

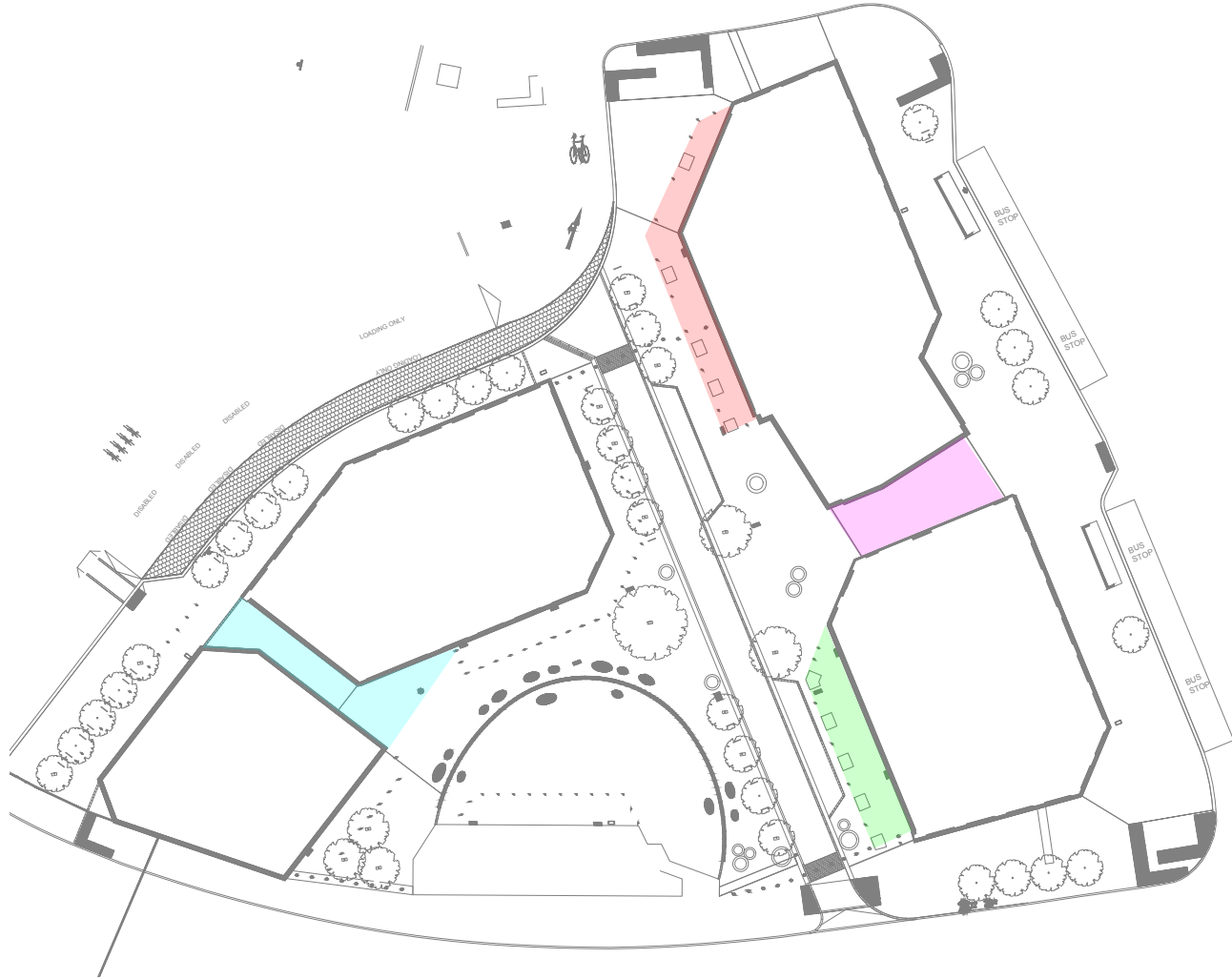
Building 1 Passage way



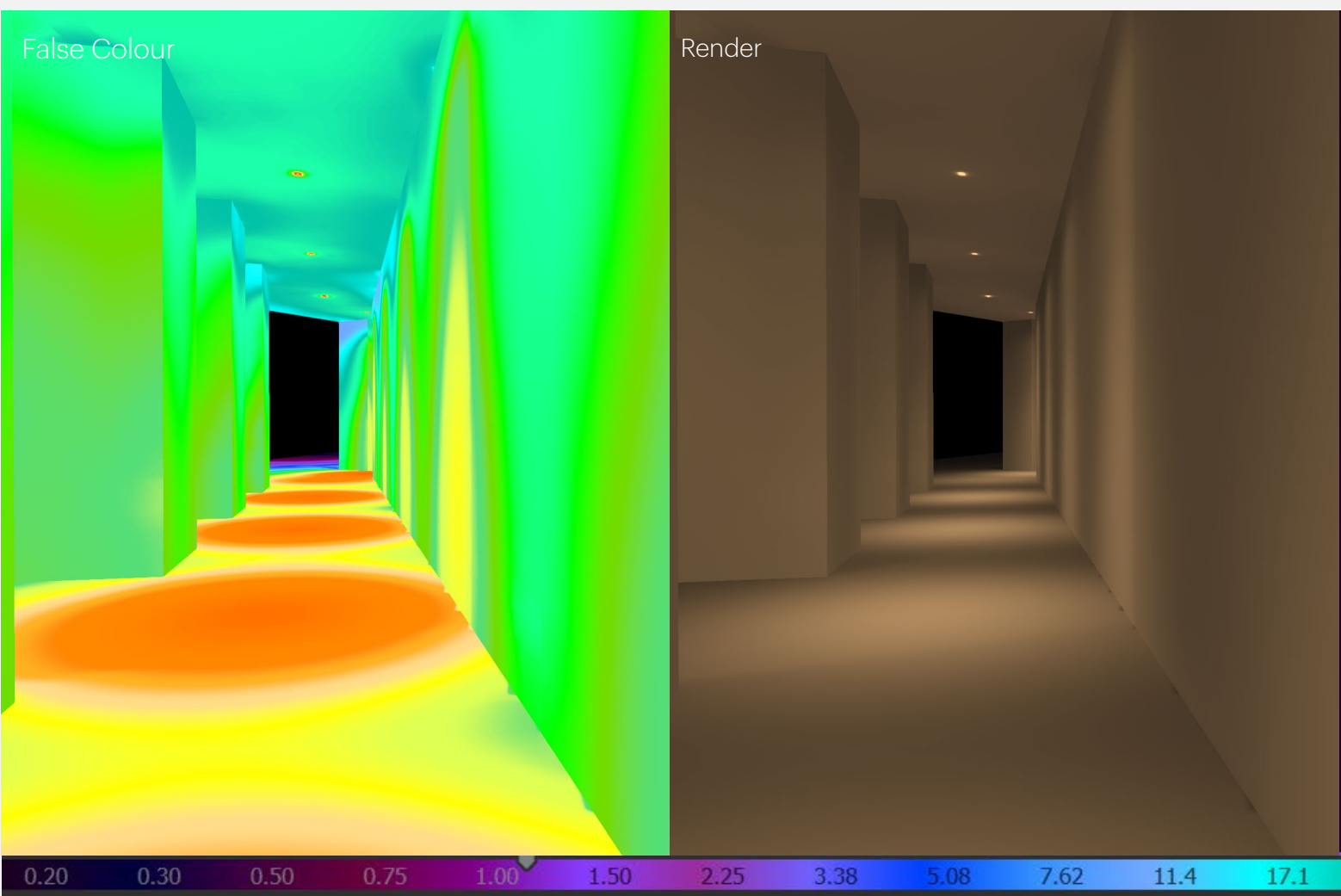
Building 2 Passage way



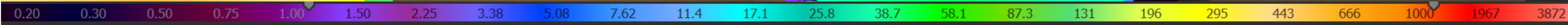
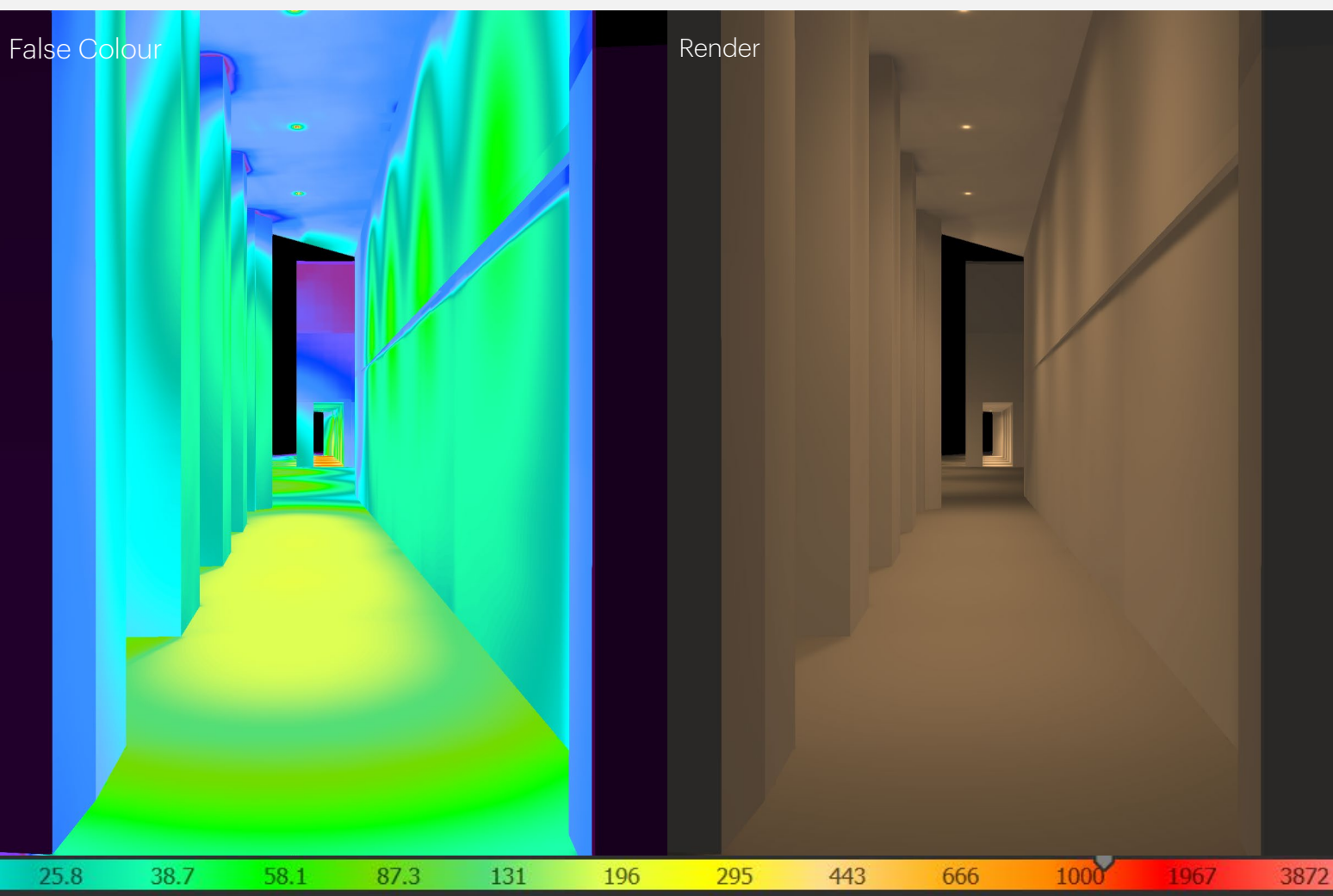
Calculation Surfaces



Building 1 Collonade 1



Building 1 Collonade 2

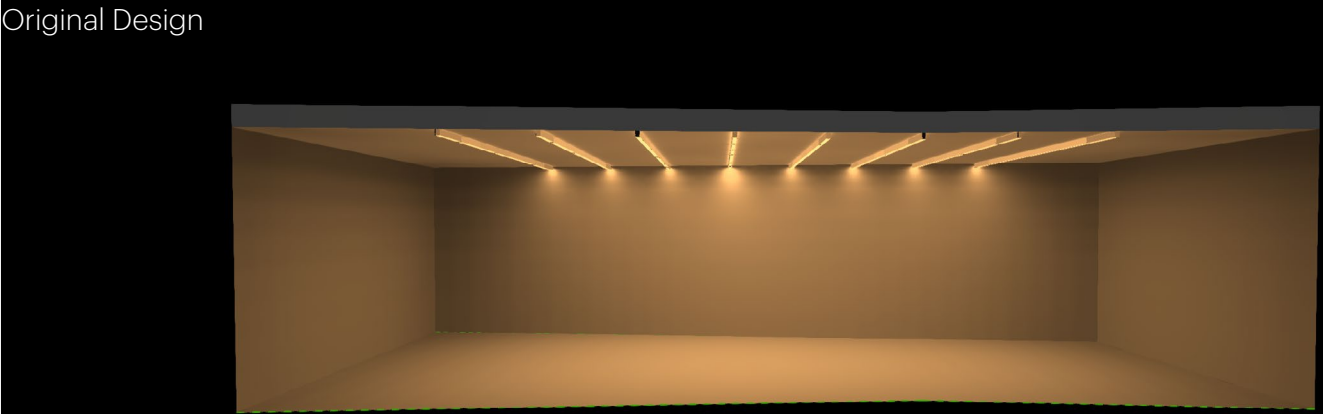


Index	Description	E(average)	Uniformity (U ^o)
CG1	Building 1 Passage way	450lx	0.23 U ^o
CG2	Building 2 Passage way	384lx	0.48 U ^o
CG3	Building 1 Collonade 1	122lx	0.33 U ^o
CG4	Building 1 Collonade 2	34.9lx	0.76 U ^o

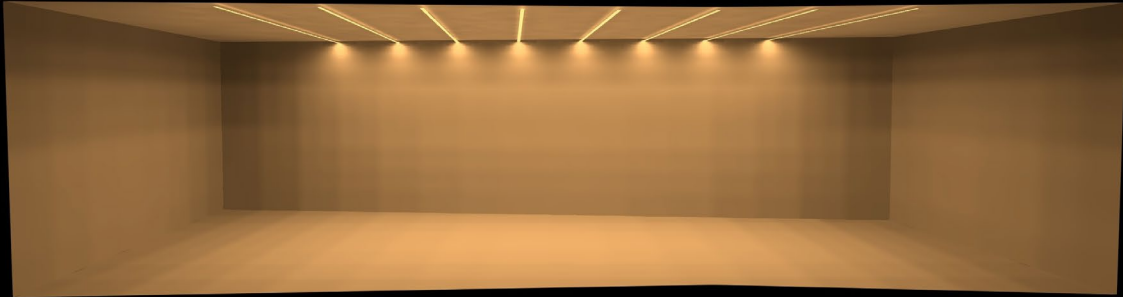
All luminaires are currently at 100% output with the exception of the interior which is set to 50%.

Calculation Result Comparison

Building 1 Passage way



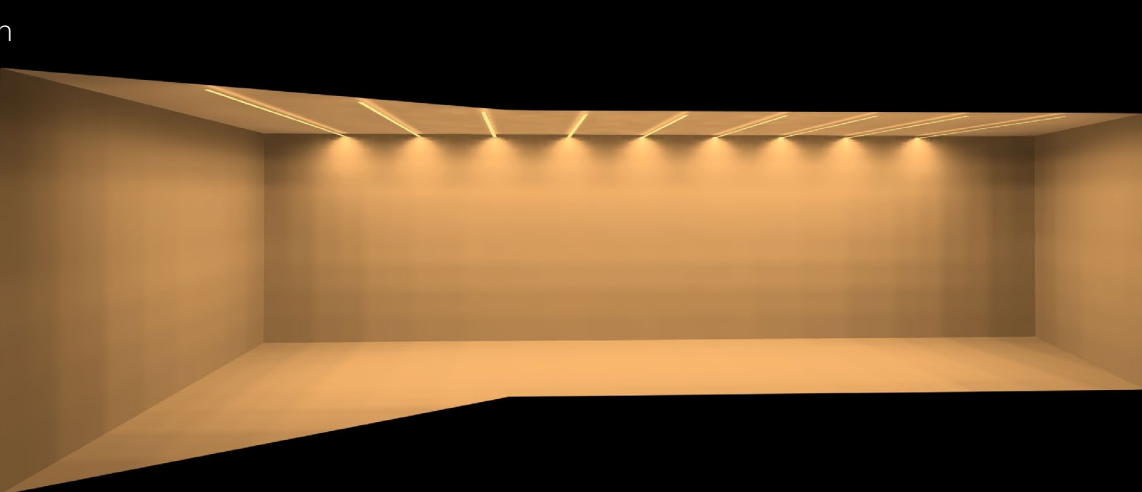
Proposed Design



Building 2 Passage way



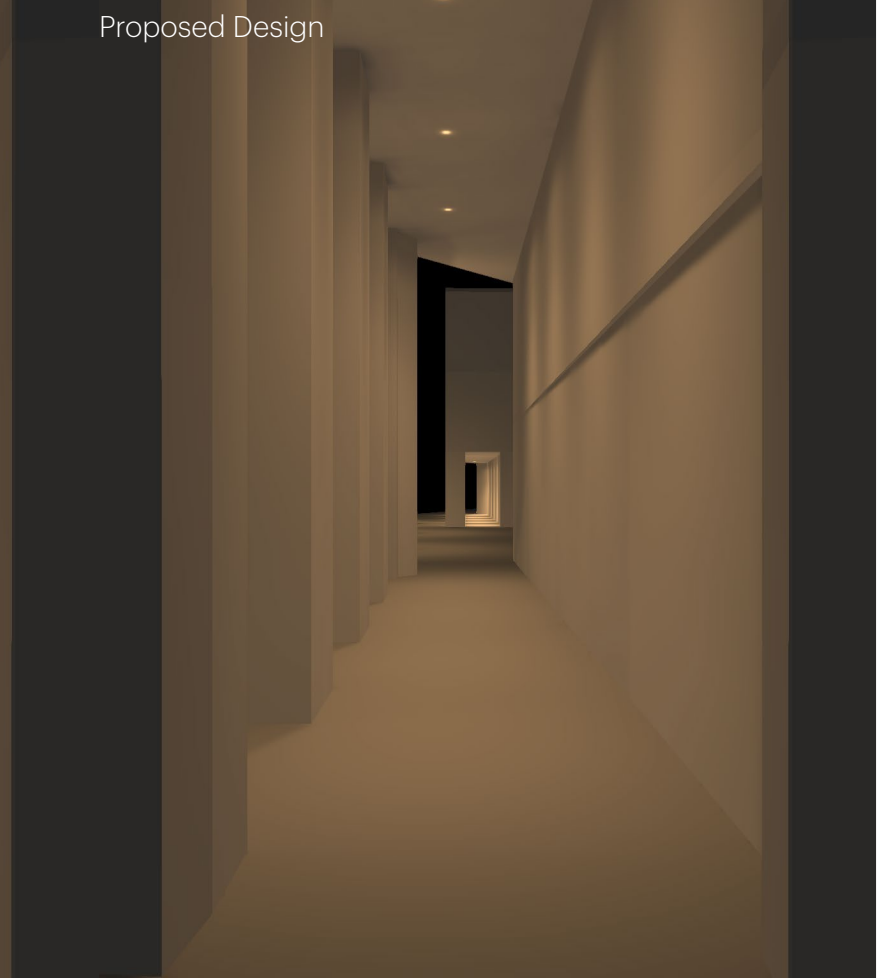
Proposed Design



Building 1 Collonade 1



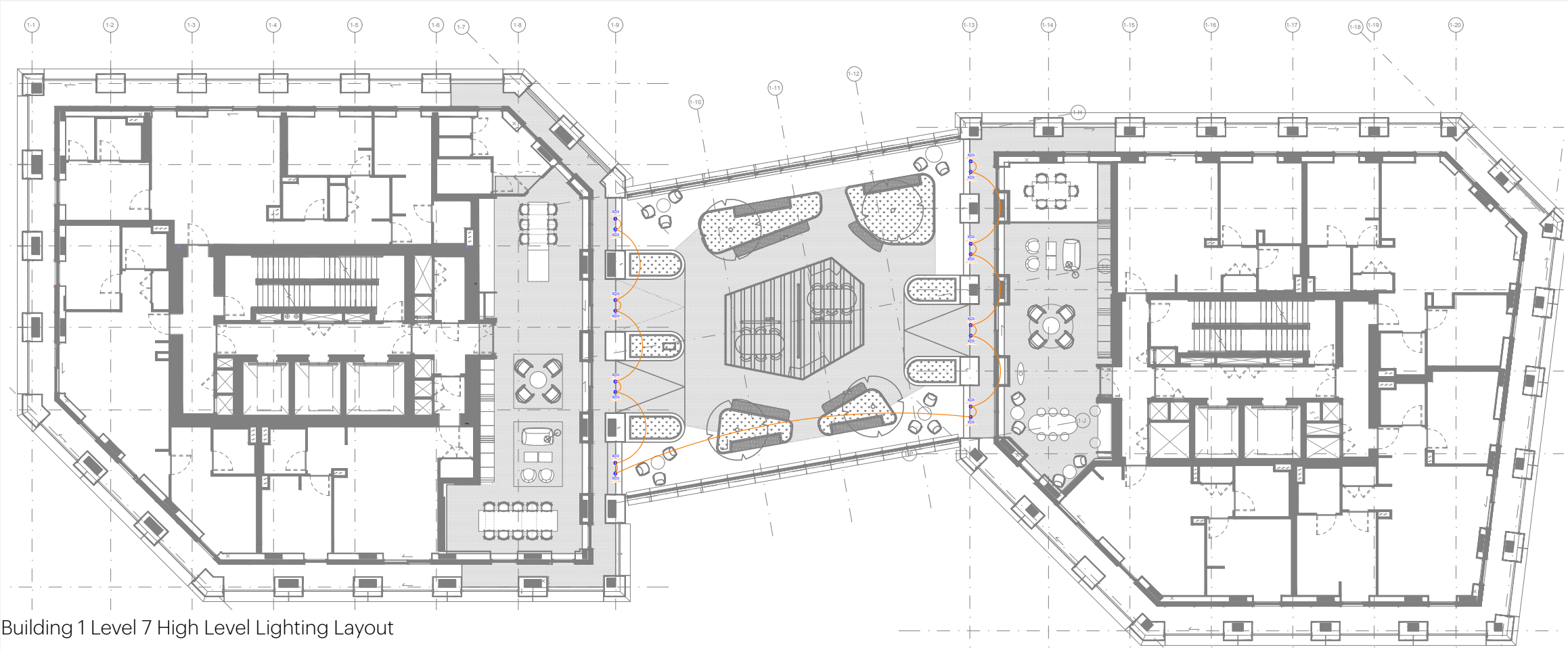
Building 1 Collonade 2



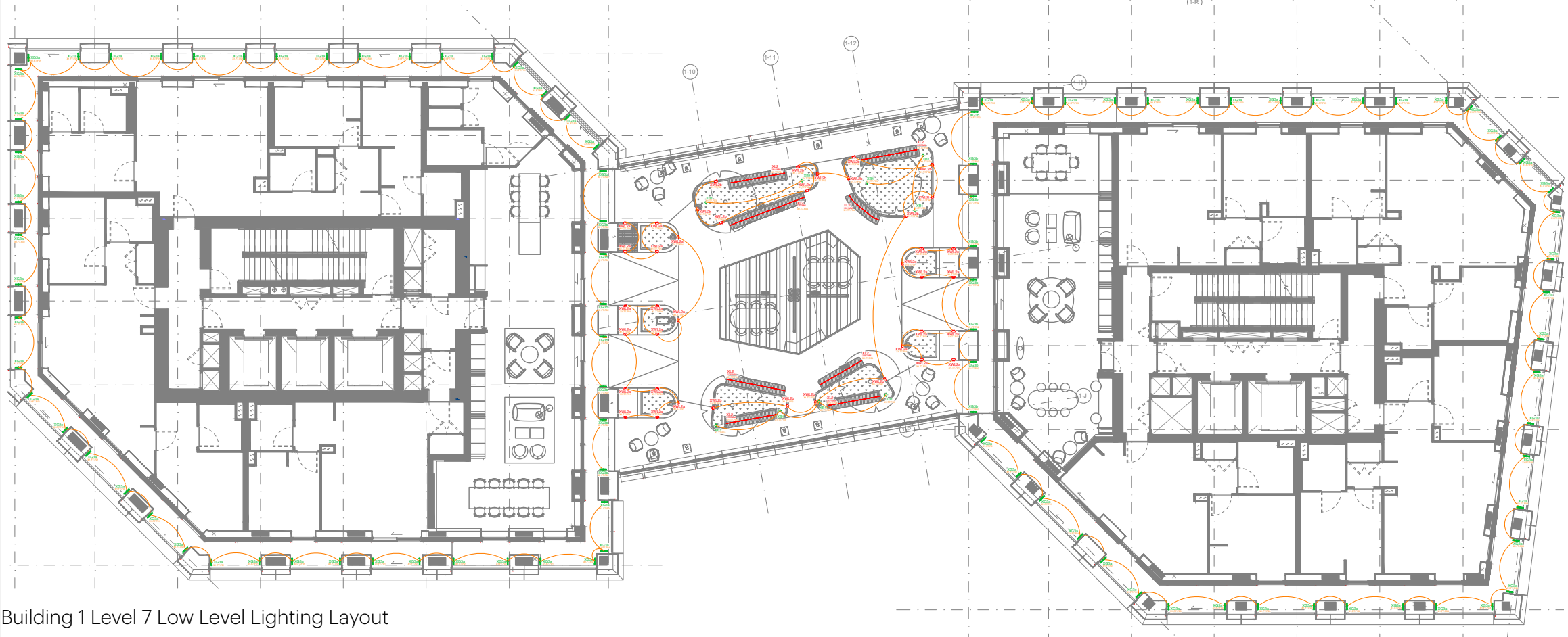
All luminaires are currently at 100% output.

Building 1 Level 7

Original Design - Layout and Specification



Building 1 Level 7 High Level Lighting Layout



Building 1 Level 7 Low Level Lighting Layout

Please note that all costs exclude VAT, drivers and related accessories.



XG3
Description : Inground Linear Uplight
Manufacturer : Targetti
Product : JEDI COMPACT IP67
Wattage : 12W
Lumen Output : 912Lm
Total QTY (area) : 98no.



XL2
Description : Flexible Linear LED
Manufacturer : Kemps
Product : Flexus 4 Silicone
Wattage : 4.5W/m
Lumen Output : 210Lm/m
Total QTY (area) : 20.72M



XWL2a/b
Description : Wall Recessed Floor Washer in RAL
Manufacturer : Targetti
Product : Zedge
Wattage : 4W
Lumen Output- : 608Lm
Total QTY (area) : 40no.

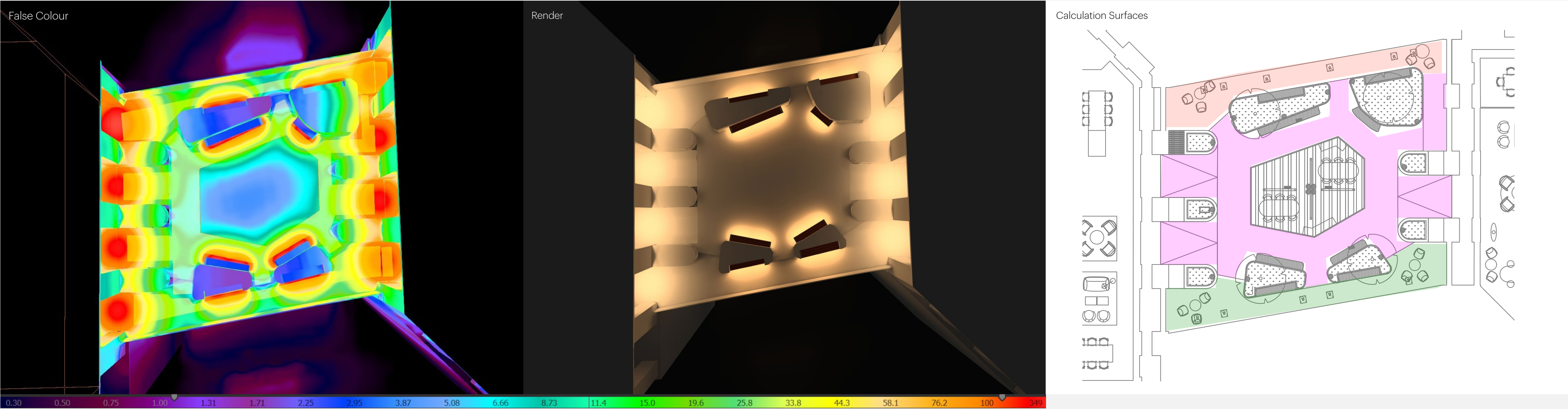


XB1
Description : Spike Mounted Bollard
Manufacturer : Stoane Lighting
Product : Bollard
Wattage : 2W
Lumen Output : 181Lm
Total QTY (area) : 9no.



XD3
Description : Ceiling Recessed Downlight
Manufacturer : BEGA
Product : Recessed Ceiling Downlight
Wattage : 14W
Lumen Output : 1447Lm
Total QTY (area) : 16no.

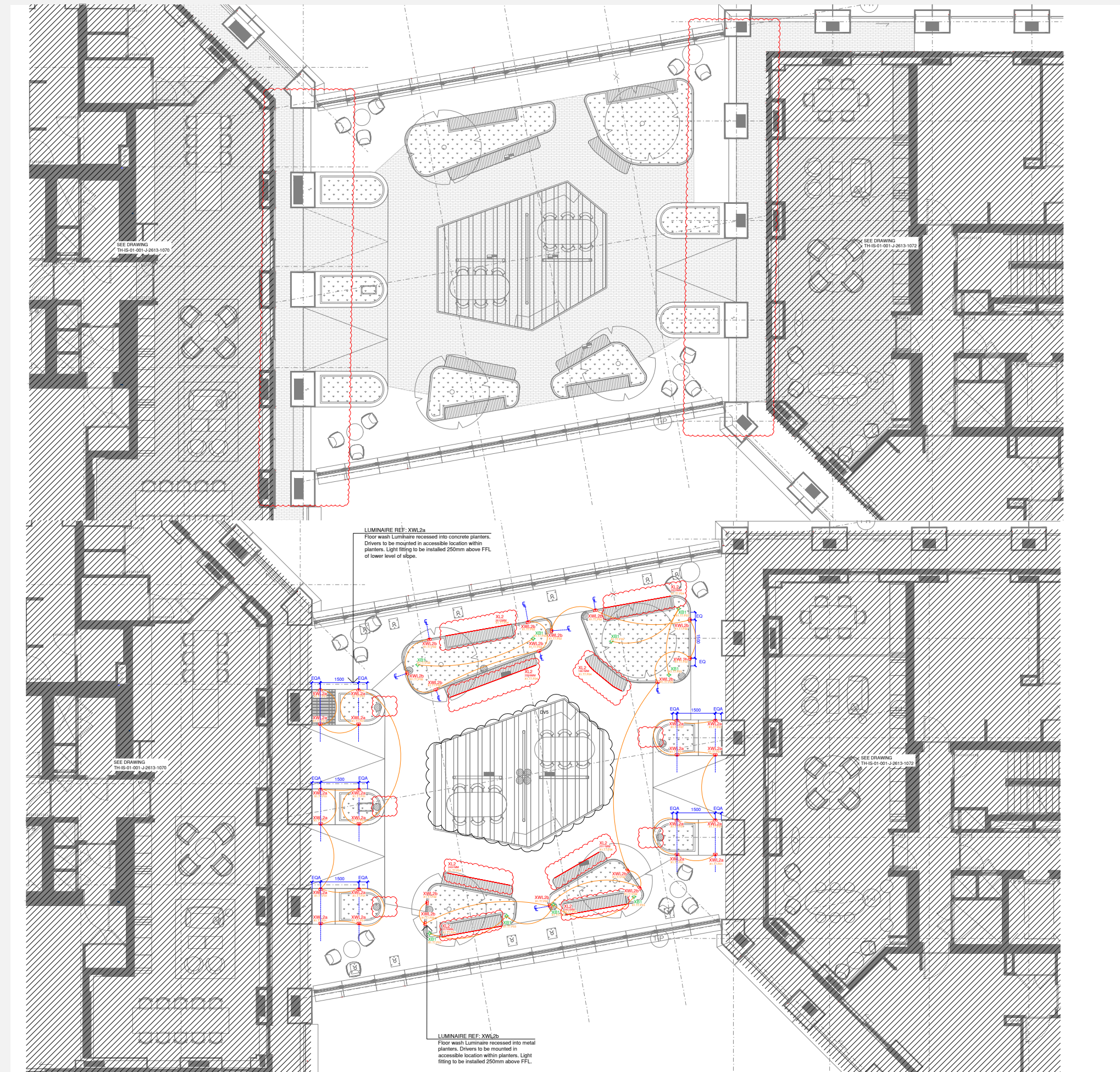
Original Design - Calculation Result



All luminaires are currently at 100% output.

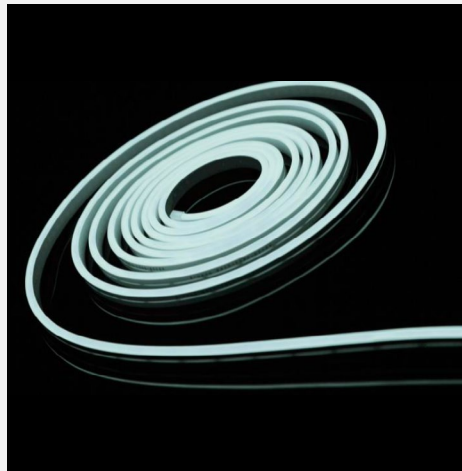
Index	Description	E(average)
CG1	General	54.2lx
CG2	General 2	124lx
CG3	General 3	71.2lx

Alternative Design - Layout and Specification



XG3a NEW
Description : In-ground Linear Uplight
Manufacturer : DGA
Product : Triuumi i IP67
Wattage : 7W
Lumen Output : 606Lm
Total QTY (area) : 16no.

Change Reason: Smaller width of fixture required



XL2 NEW
Description : Flexible Linear LED
Manufacturer : No Grey Area
Product : Fusion Neon 0612 10W/m IP67
Wattage : 10W/m
Lumen Output : 400Lm/m
Total QTY (area) : 20.72M

Change Reason: Smaller width of fixture required



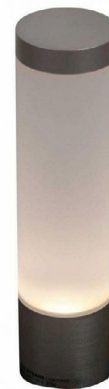
XWL2a NEW
Description : Wall Recessed Floor Washer in RAL 7023
Manufacturer : Phos
Product : Nano Pano Darklight
Wattage : 5.7 W
Lumen Output : 175 Lm
Total QTY (area) : 20no.

Change Reason: RAL Finish and smaller fixture for curved installation



XWL2b NEW
Description : Wall Recessed Floor Washer in RAL 090 80 20
Manufacturer : Phos
Product : Nano Pano Darklight
Wattage : 5.7 W
Lumen Output : 175 Lm
Total QTY (area) : 16no.

Change Reason: RAL Finish and smaller fixture for curved installation



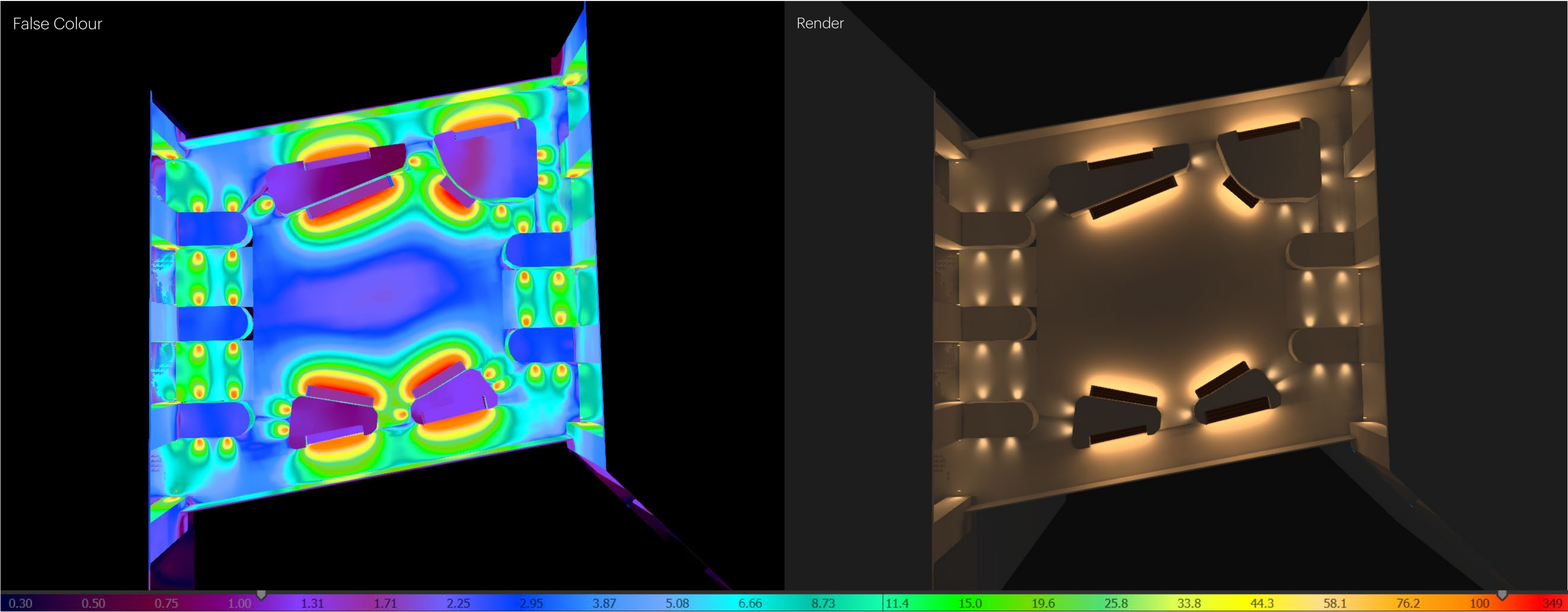
Description : Spike Mounted Bollard
Manufacturer : Stoane Lighting
Product : Bollard
Wattage : 2W
Lumen Output : 181Lm
Total QTY (area) : 9no.



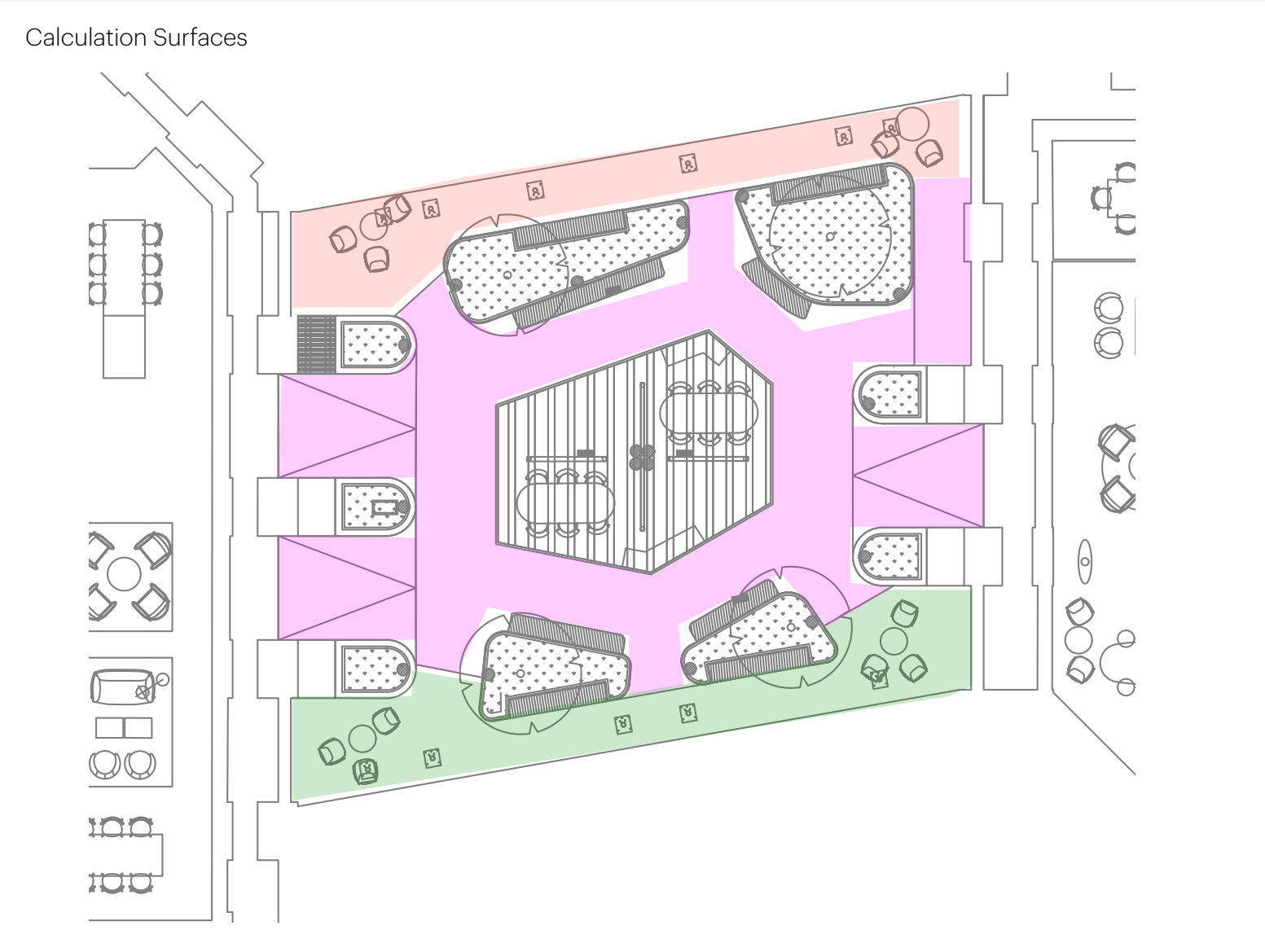
XG3b NEW
Description : In-ground Linear Uplight
Manufacturer : DGA
Product : Triuumi i IP67
Wattage : 7W
Lumen Output : 606Lm
Total QTY (area) : 98no.

Change Reason: Smaller width of fixture required

Alternative Design - Calculation Result

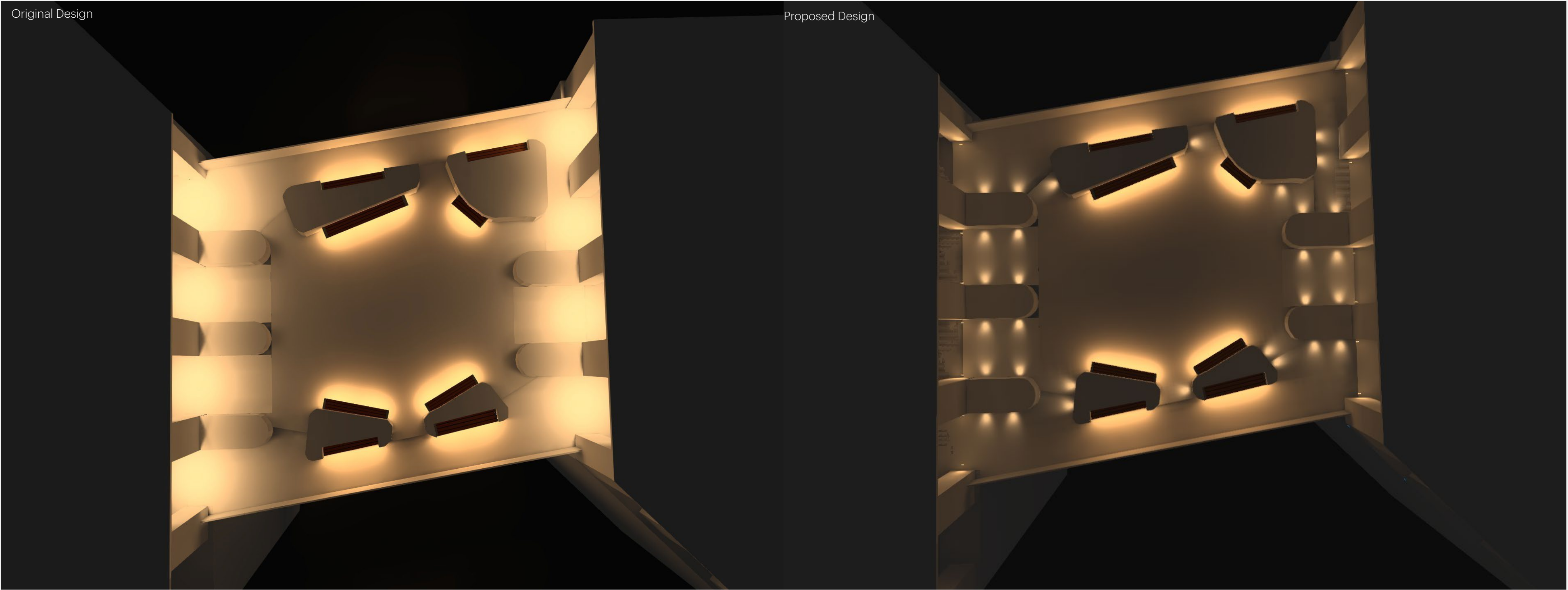


All luminaires are currently at 100% output.



Index	Description	E(average)	Uniformity (U ^o)
CG1	General	18.0lx	0.11Uo
CG2	General 2	26.2lx	0.17Uo
CG3	General 3	11.0lx	0.22Uo

Calculation Result Comparison



All luminaires are currently at 100% output.