

LSU DESIGN BUILDING

LIGHTING PROPOSAL

EPPLING & GODCHAUX

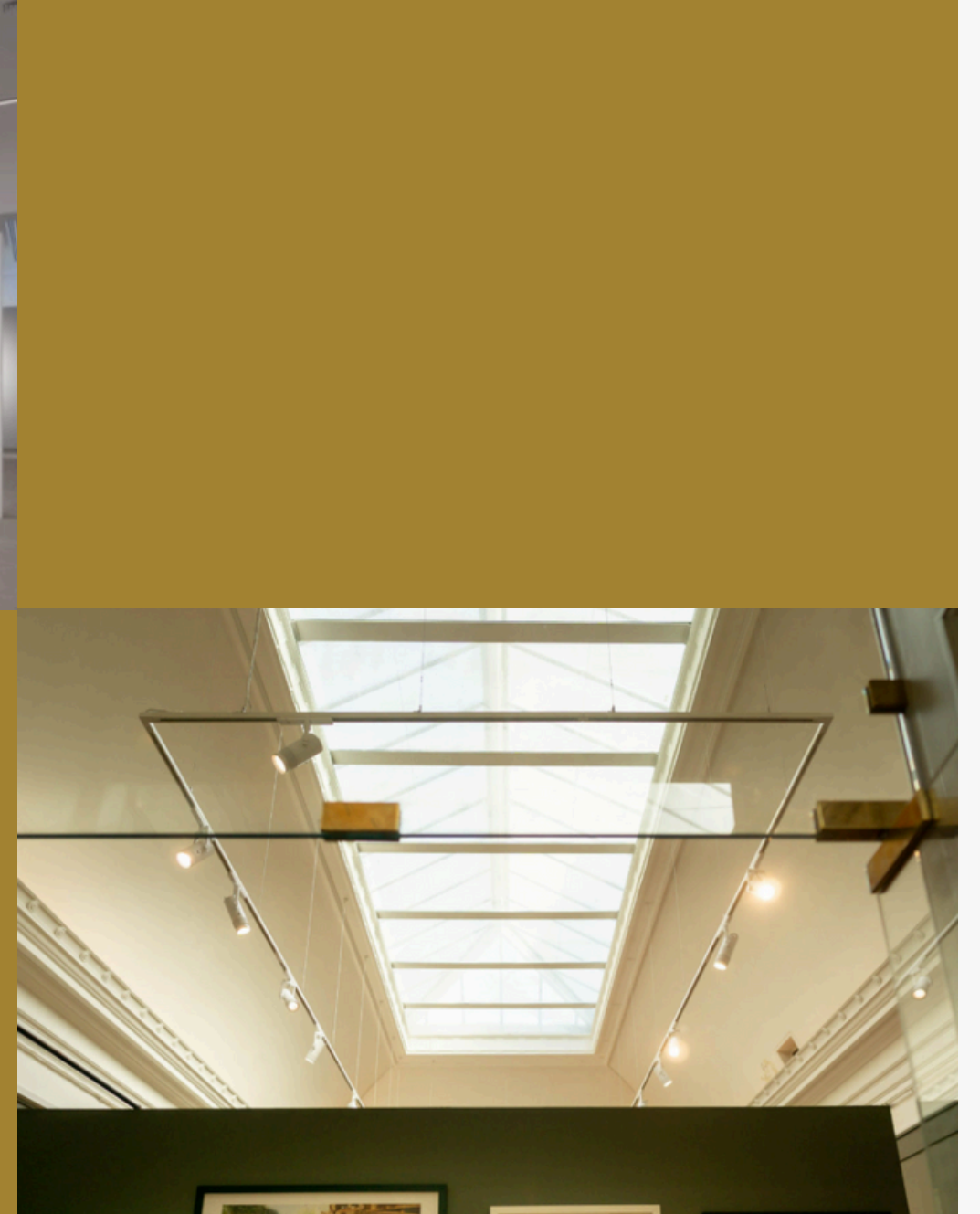
ABOUT THE GALLERY

The project was focused on reimagining the lighting solution for the Boyce Gallery located in the College of Art & Design at Louisiana State University. The gallery is named after Clark and Laura Boyce and is used as a space to showcase art and design from students and faculty to highlight their achievements in the program.





INSPIRATION



PRECEDENT STUDIES



01

House 47



02

Estúdio de Arquitetura



03

Kult Museum

01. HOUSE 47

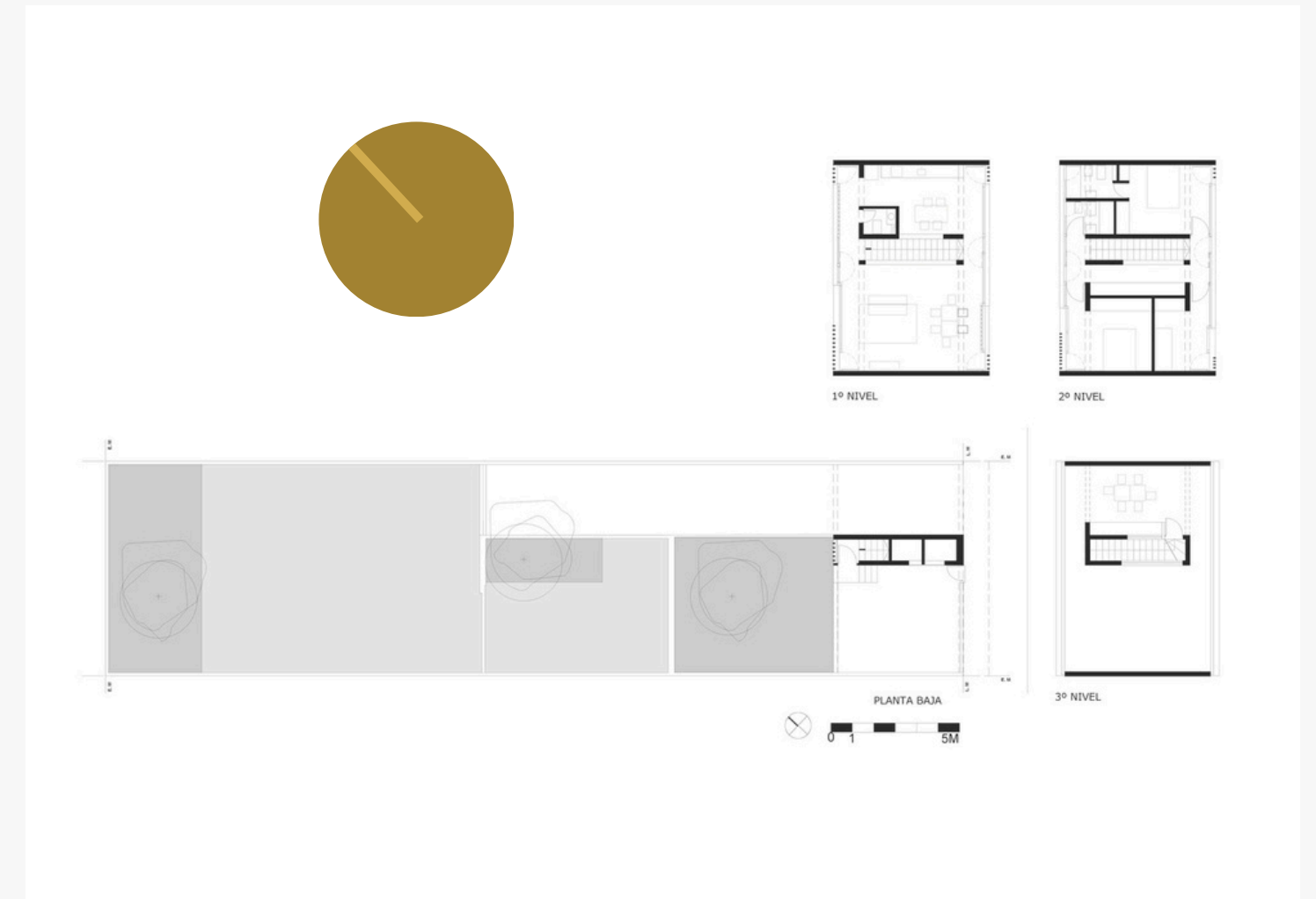
Architect: Reimers Riso Arquitectura

Location: La Plata, Argentina

Year Completed: 2016

Area: 2152.78 sq. ft.

Shading strategy: glass bricks



"House 47 / Reimers Riso Arquitectura" [Casa 47 / Reimers Riso Arquitectura] 11 Sep 2020. ArchDaily. Accessed 11 Apr 2022.
<<https://www.archdaily.com/947382/house-47-reimers-riso-arquitectura>> ISSN 0719-8884

02. ESTÚDIO DE ARQUITETURA

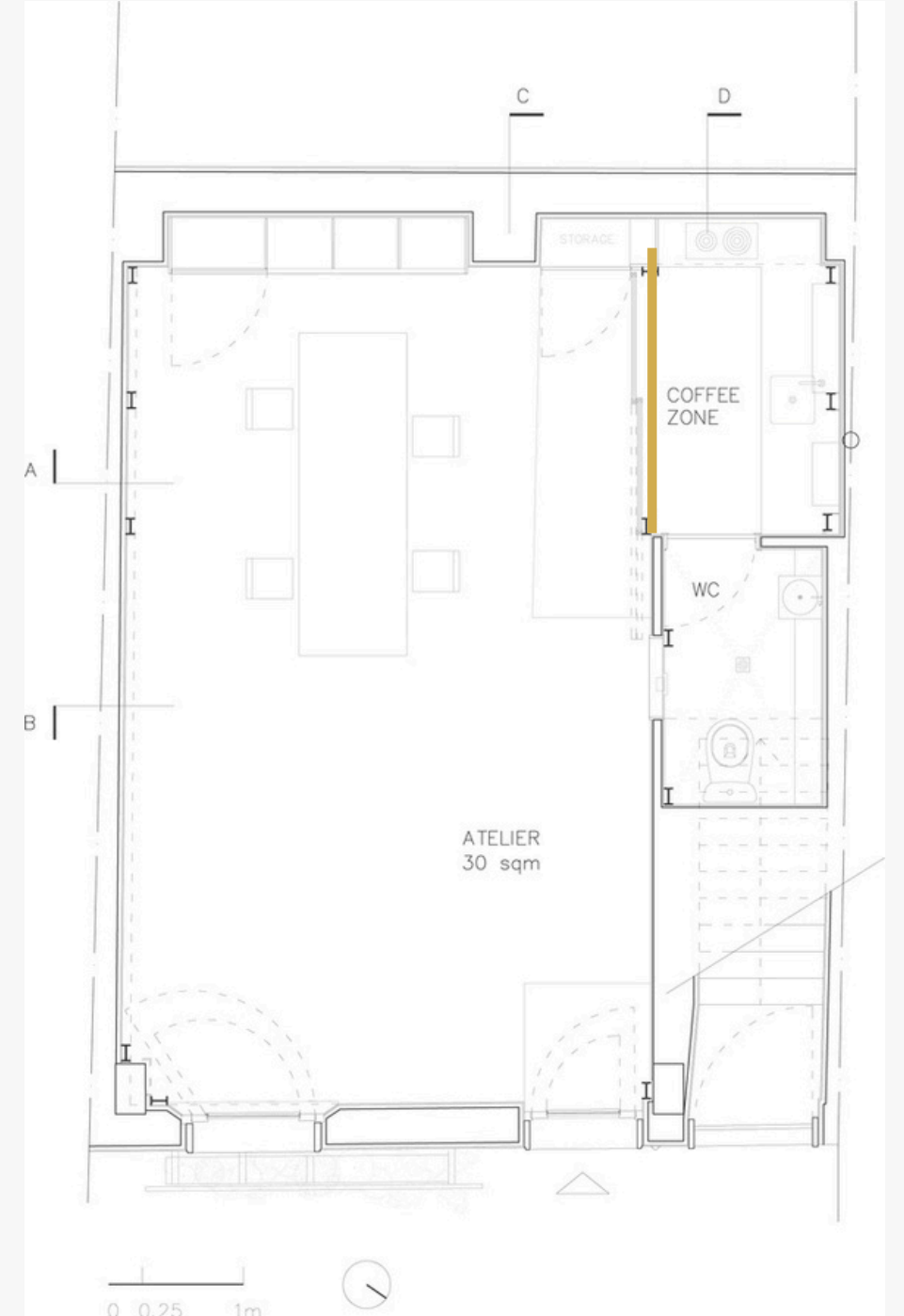
Architect: Alina Jerónimo & Paulo Carneiro

Location: Lisbon, Portugal

Year Completed: 2016

Area: 376.737 sq. ft.

Shading strategy: curtain wall



03. KULT MUSEUM

Architect: Bleckmann Krys
Architekten
& Pool Leber Architekten
Location: Vreden, Germany
Year Completed: 2018
Area: 64045.27 sq. ft.



"Kult / Pool Leber Architekten + Bleckmann Krys Architekten" 03 Sep 2018. ArchDaily. Accessed 11 Apr 2022.
<<https://www.archdaily.com/901168/kult-pool-leber-architekten-plus-bleckmann-krys-architekten>> ISSN 0719-8884

DESIGN INTENT & GOALS

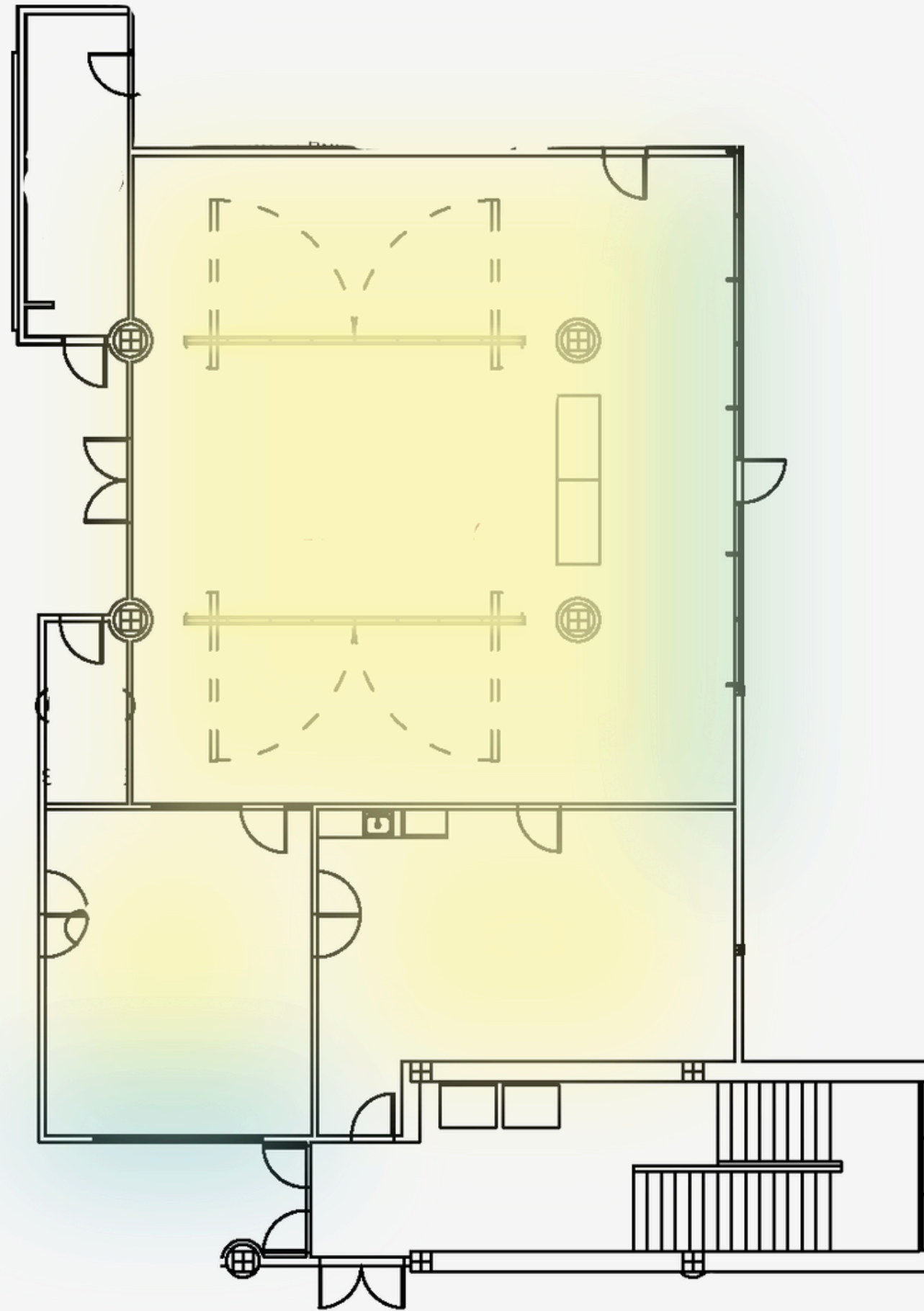
”

**a balance of
lighting for
all users**

-
- multifunctional lighting
 - warm tones
 - inviting space
 - adaptable space
 - creative a connection between the interior and the exterior through the use of a shading partition



LIGHT MAP



RENDERED LIGHT MAP



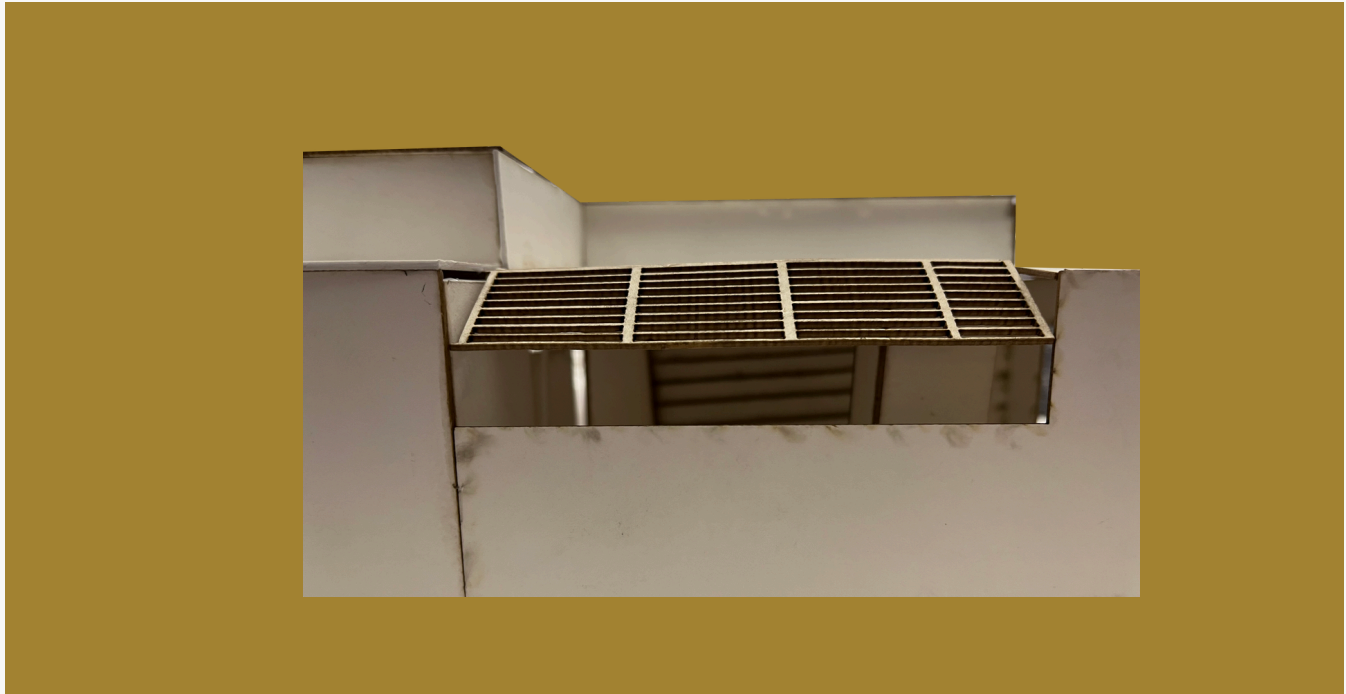
MODEL @1/4" SCALE



MODEL @1/4" SCALE



MODEL @1/4" SCALE



SPECIFICATION KEY

MARK	MANUFACTURER	QUANTITY	MODEL DESCRIPTION	LAMP TYPE	DYNAMIC FEATURE	WATTAGE	MOUNTING	CRI	SIZE
L-1	Intra Lighting	56	Gyon C	LED	N/A	58	Ceiling Mounted	80	586mm
L-2	Intra Lighting	34	Gyon C	LED	N/A	58	Ceiling Mounted	80	1146mm
L-3	Intra Lighting	20	Gyon C	LED	N/A	58	Ceiling Mounted	80	2266mm
L-4	ACQUITY BRANDS	4	Peerless Venue™ Luminaire Square: CONCAVE	LED- Dynamic	Tunable White		Suspended	80	40" x 40"
L-5	ACQUITY BRANDS	4	Peerless Venue™ Luminaire Square: CONVEX	LED- Dynamic	Tunable White		Suspended	80	40" x 40"
L-6	N/A	40	Existing Gallery lights						
L-7	Intra Lighting	36	Pipes T 45		LED	N/A	Mounts to L-1, L-2, L-3	80	45mm, h: 164mm
B-1	GE	1	GE Cync Smart Bulbs LED (Bluetooth)	LED-Color Changing	Dimmable	60w	E26 Base	90	2.38" diameter

SPECS: B-1

CATEGORY: BULB

ITEM: GE CYNC SMART BULBS LED-COLOR CHANGING

SIZE: 2.38" DIAMETER

MFR. SERIES: C BY GE

ITEM NO.: 00043168505093

LAMP/OVERALL LUMEN: 760LM

CRI/TM-30: 90

COLOR TEMPERATURE: 2700K

WATTAGE: 60W

CBCP: N/A

REMARKS: THIS PARTICULAR BULB WILL REPLACE THE GREEN TINTED
BULB OUTSIDE THE GRADUATE STUDENT OFFICE AREA THAT WILL
SOON BECOME THE SHOP

QUANTITY: 1

ROOM LOCATION: HALLWAY OUTSIDE GRADUATE STUDENT OFFICE

PRICE: \$33.99 2-PACK



SPECS: L-1

CATEGORY: LUMINAIRE
ITEM: SOP 4400 LM 57 W 830 L3106MM DALI IP43 WHITE
SIZE: 586MM

MFR: INTRA LIGHTING
SERIES: GYON C

LAMP/OVERALL LUMEN: 7425LM

CRI/TM-30: 80

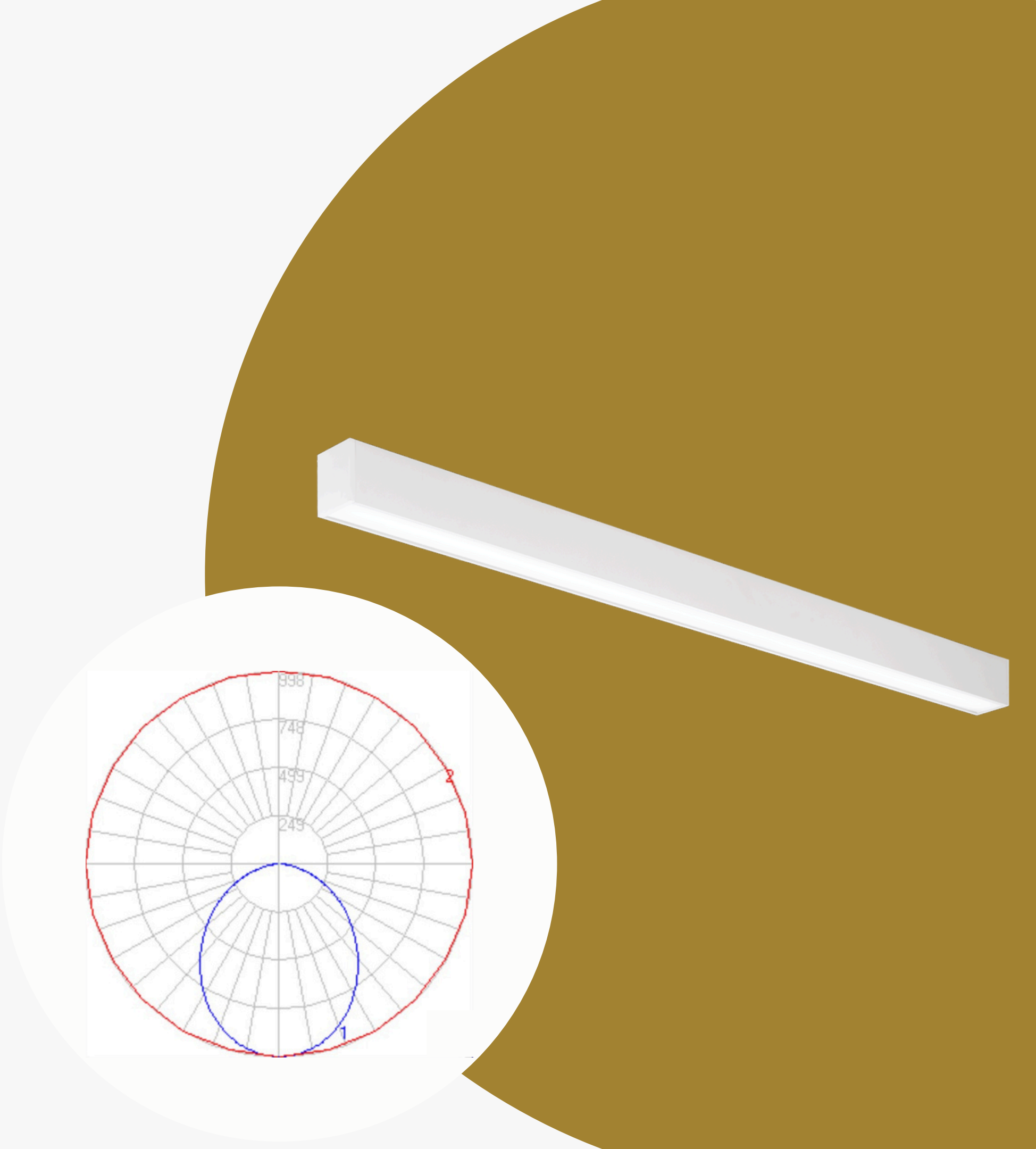
WATTAGE: 58W

COLOR TEMPERATURE: 3000K

MATERIALS: EXTRUDED ALUMINIUM PROFILE, POWDER COATED;
SCREW-LESS POLYCARBONATE END CAPS

QUANTITY: 56
ROOM LOCATION: 1, 4

PRICE: CUSTOM



SPECS: L-2

CATEGORY: LUMINAIRE
ITEM: SOP 4400 LM 57 W 830 L3106MM DALI IP43 WHITE
SIZE: 1146MM

MFR: INTRA LIGHTING
SERIES: GYON C

LAMP/OVERALL LUMEN: 7425LM

CRI/TM-30: 80

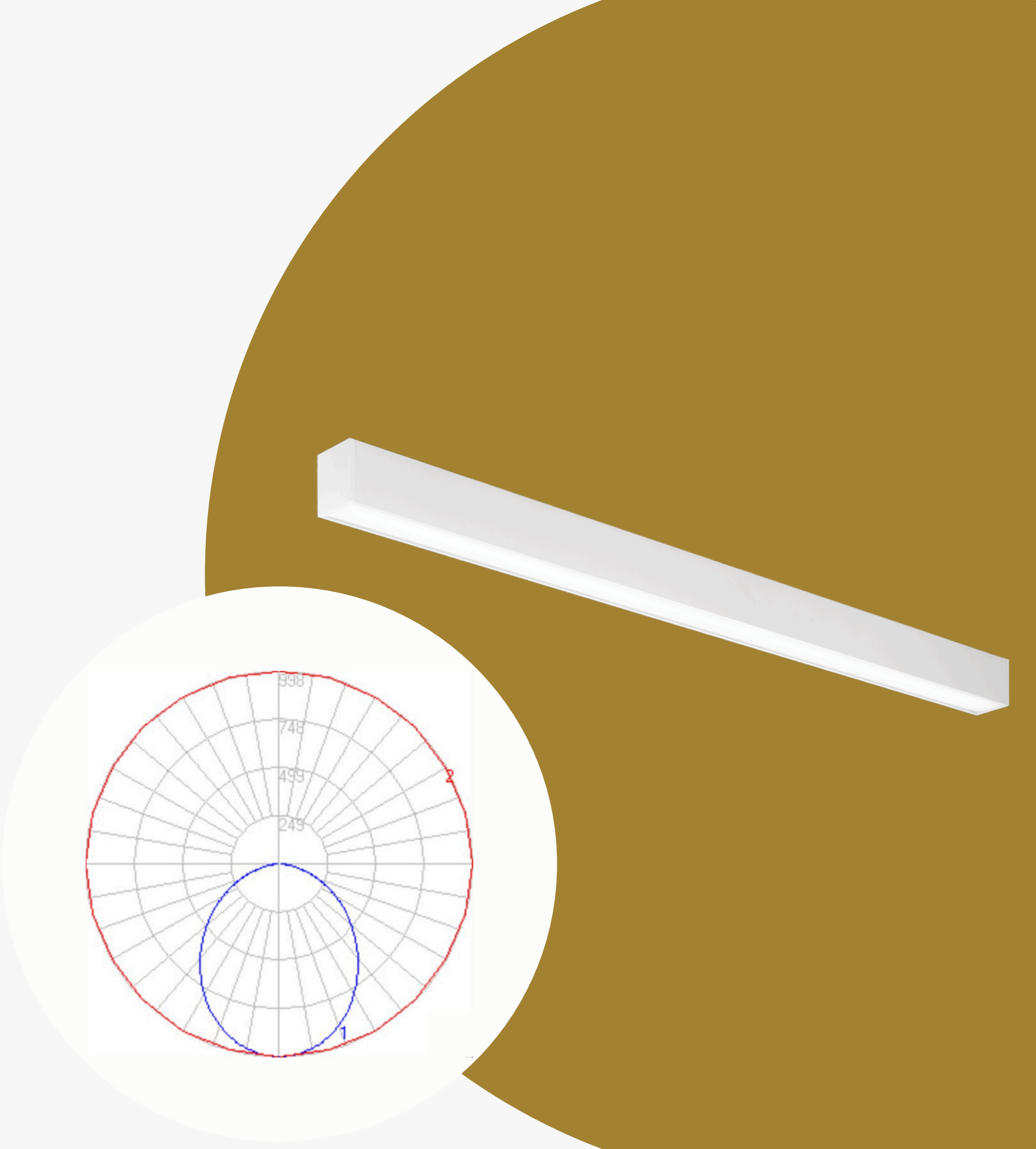
WATTAGE: 58W

COLOR TEMPERATURE: 3000K

MATERIALS: EXTRUDED ALUMINIUM PROFILE, POWDER COATED;
SCREW-LESS POLYCARBONATE END CAPS

QUANTITY: 34
ROOM LOCATION: 1, 4

PRICE: CUSTOM



SPECS: L-3

CATEGORY: LUMINAIRE
ITEM: SOP 4400 LM 57 W 830 L3106MM DALI IP43 WHITE
SIZE: 2266MM

MFR: INTRA LIGHTING
SERIES: GYON C

LAMP/OVERALL LUMEN: 7425LM

CRI/TM-30: 80

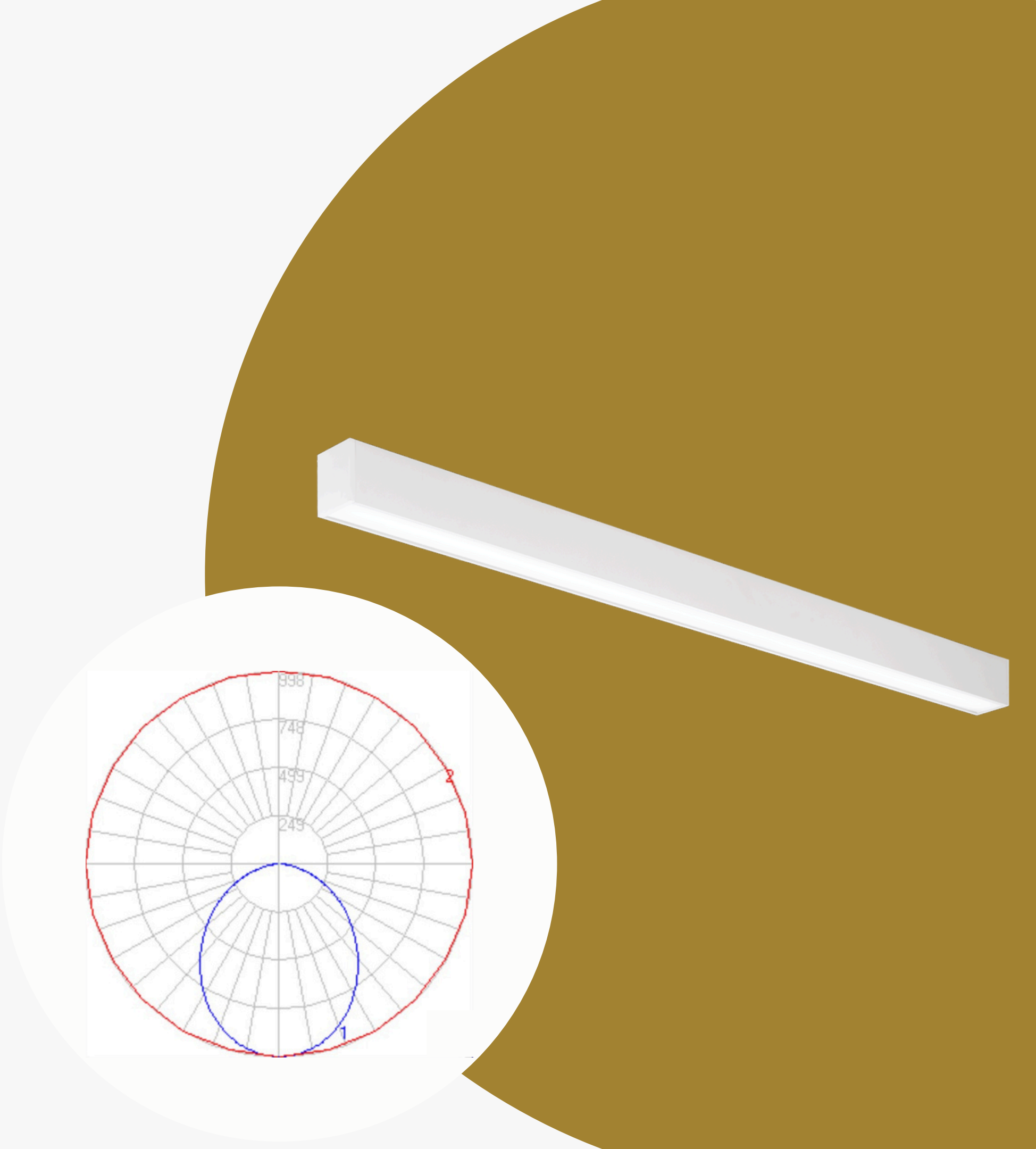
WATTAGE: 58W

COLOR TEMPERATURE: 3000K

MATERIALS: EXTRUDED ALUMINIUM PROFILE, POWDER COATED;
SCREW-LESS POLYCARBONATE END CAPS

QUANTITY: 20
ROOM LOCATION: 1, 4

PRICE: CUSTOM



SPECS: L-4

CATEGORY: LUMINAIRE
ITEM: PEERLESS VENUE™ LUMINAIRE SQUARE: CONCAVE
SIZE: 40" X 40"

MFR.: ACQUITY BRANDS/PEERLESS
SERIES: VNU4

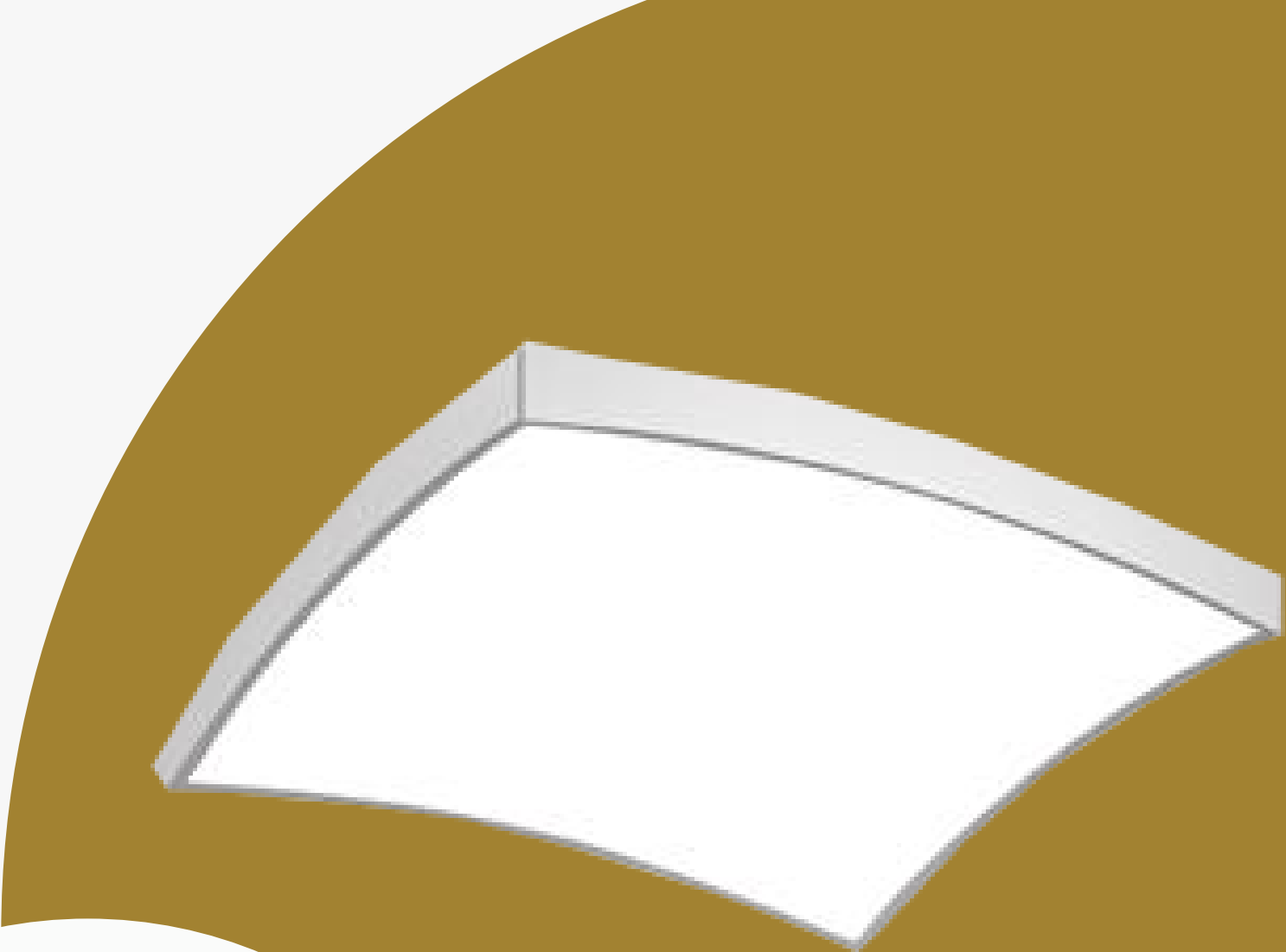
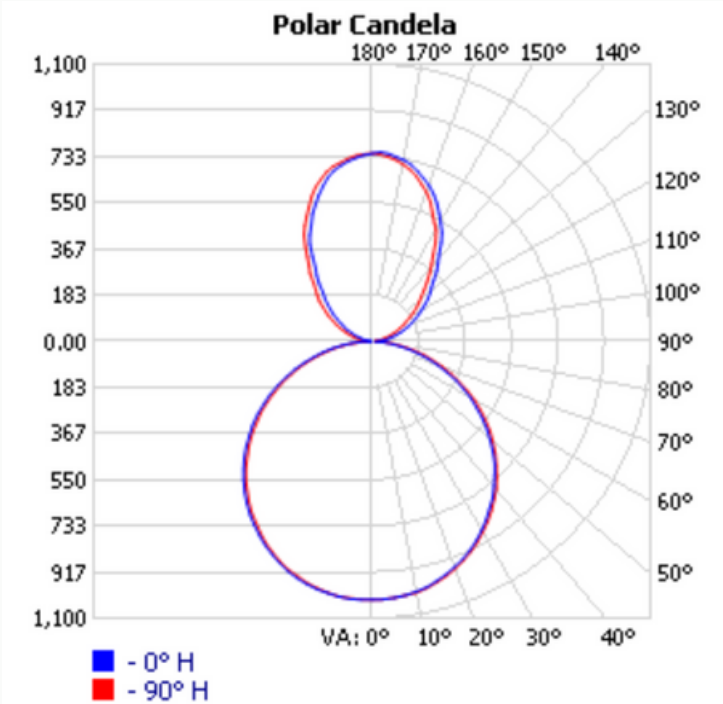
LAMP/OVERALL LUMEN: 3300 LM

CRI/TM-30: 80
COLOR TEMPERATURE: 3000K
FIXTURE WATTAGE: 43.88
CBCP: N/A

REMARKS: THE SHAPE OF THIS FIXTURE WILL ADD TO THE CEILING
DESIGN IN THE SOON TO BE SHOP

QUANTITY: 4
ROOM LOCATION: 3

PRICE: CUSTOM



SPECS: L-5

CATEGORY: LUMINAIRE
ITEM: PEERLESS VENUE™ LUMINAIRE SQUARE: CONVEX
SIZE: 40" X 40"

MFR.: ACQUITY BRANDS/PEERLESS
SERIES: VNU4

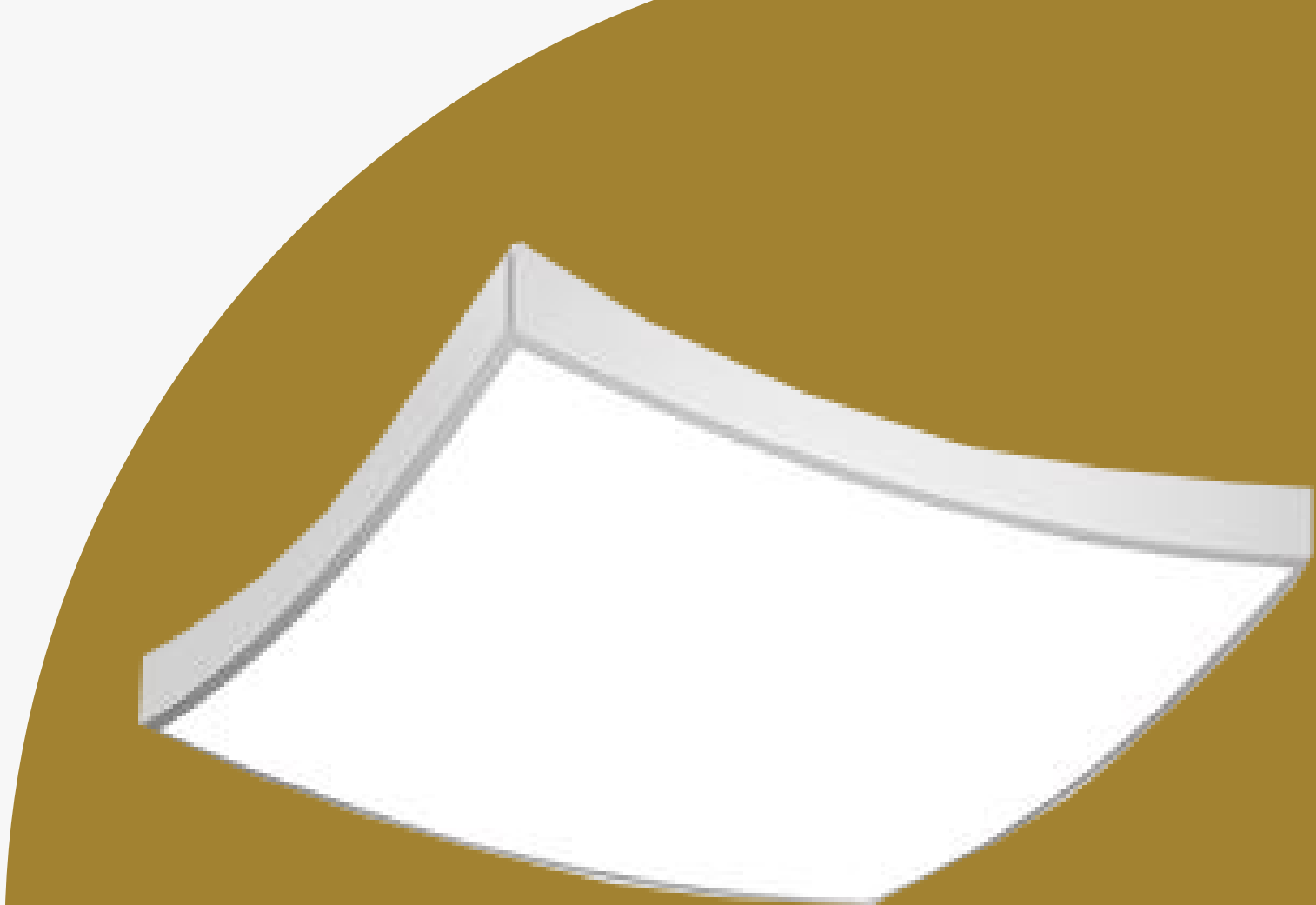
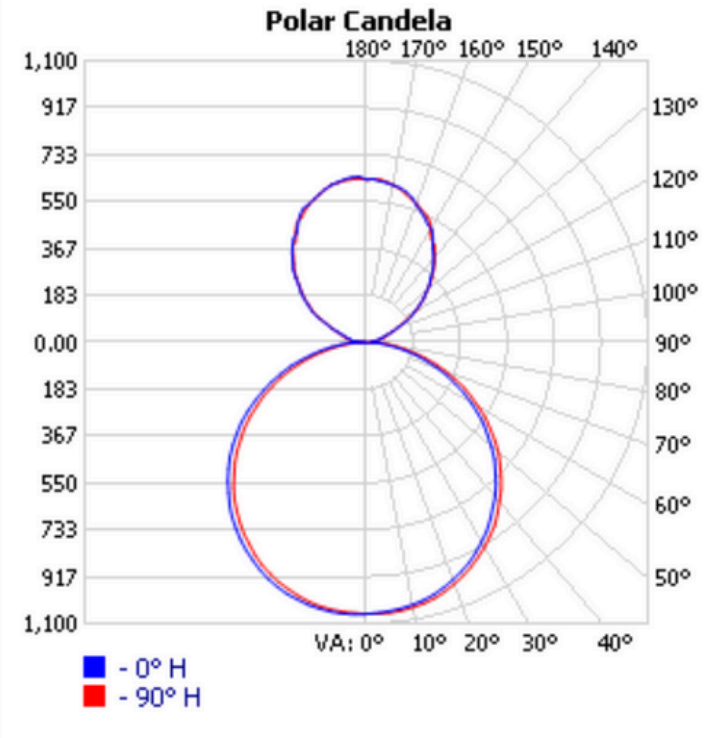
LAMP/OVERALL LUMEN: 3300 LM

CRI/TM-30: 80
COLOR TEMPERATURE: 3000K
FIXTURE WATTAGE: 43.88
CBCP: N/A

REMARKS: THE SHAPE OF THIS FIXTURE WILL ADD TO THE CEILING
DESIGN IN THE SOON TO BE SHOP

QUANTITY: 4
ROOM LOCATION: 3

PRICE: CUSTOM



SPECS: L-7

CATEGORY: LUMINARY
ITEM: DECO 870 LM 8 W 830 FO 42° WHITE

MFR: INTRA LIGHTING
SERIES: PIPES T 45
ITEM NO.: 13051071101

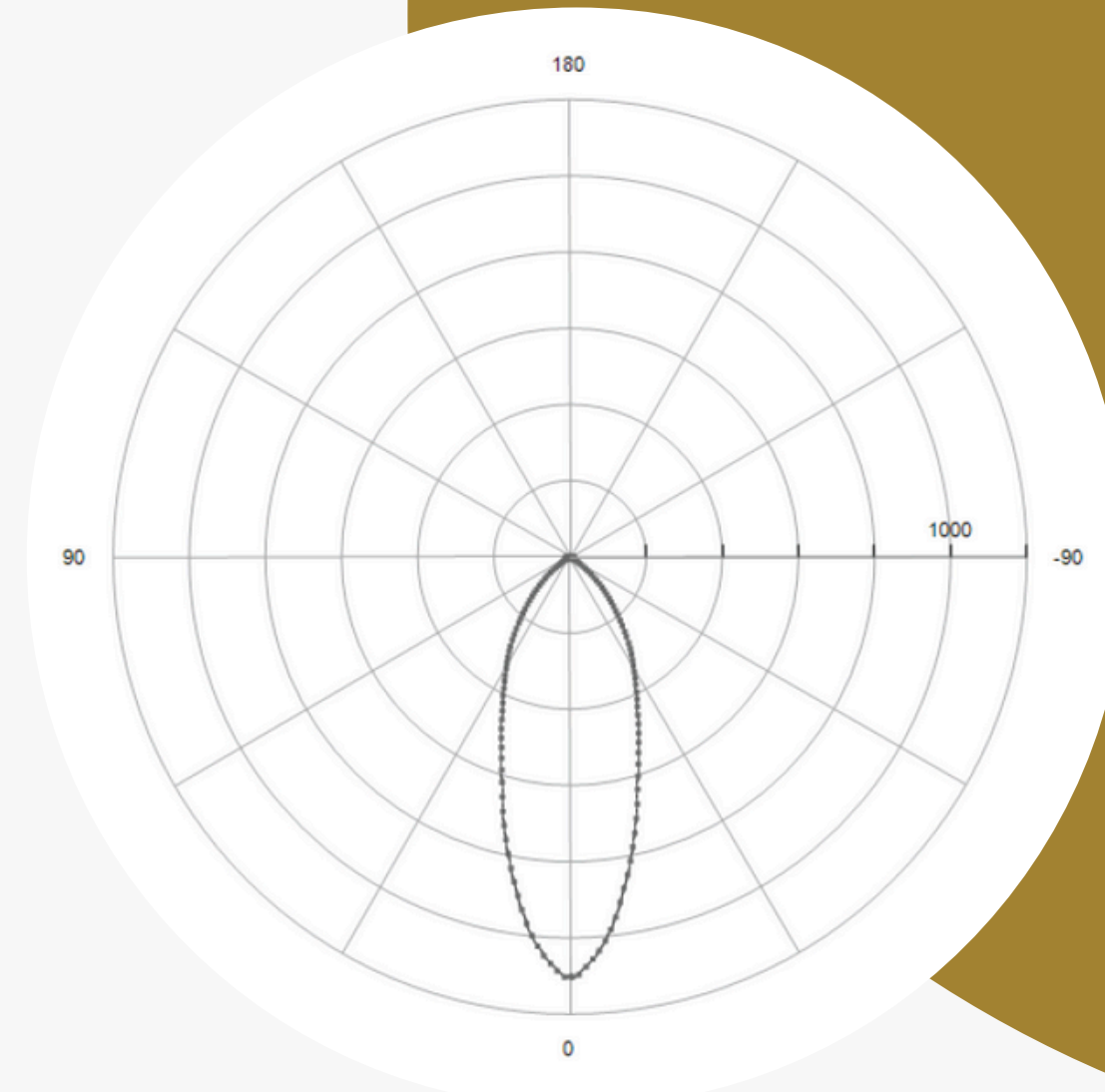
LAMP/OVERALL LUMEN: 866LM

CRI/TM-30: 80

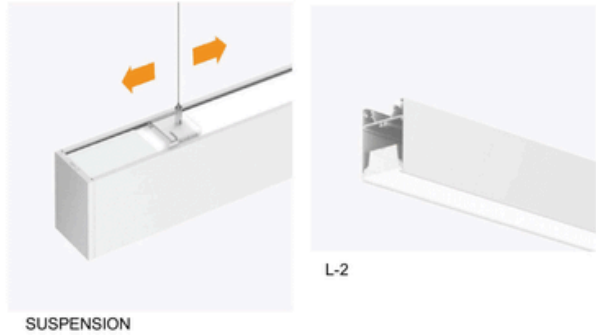
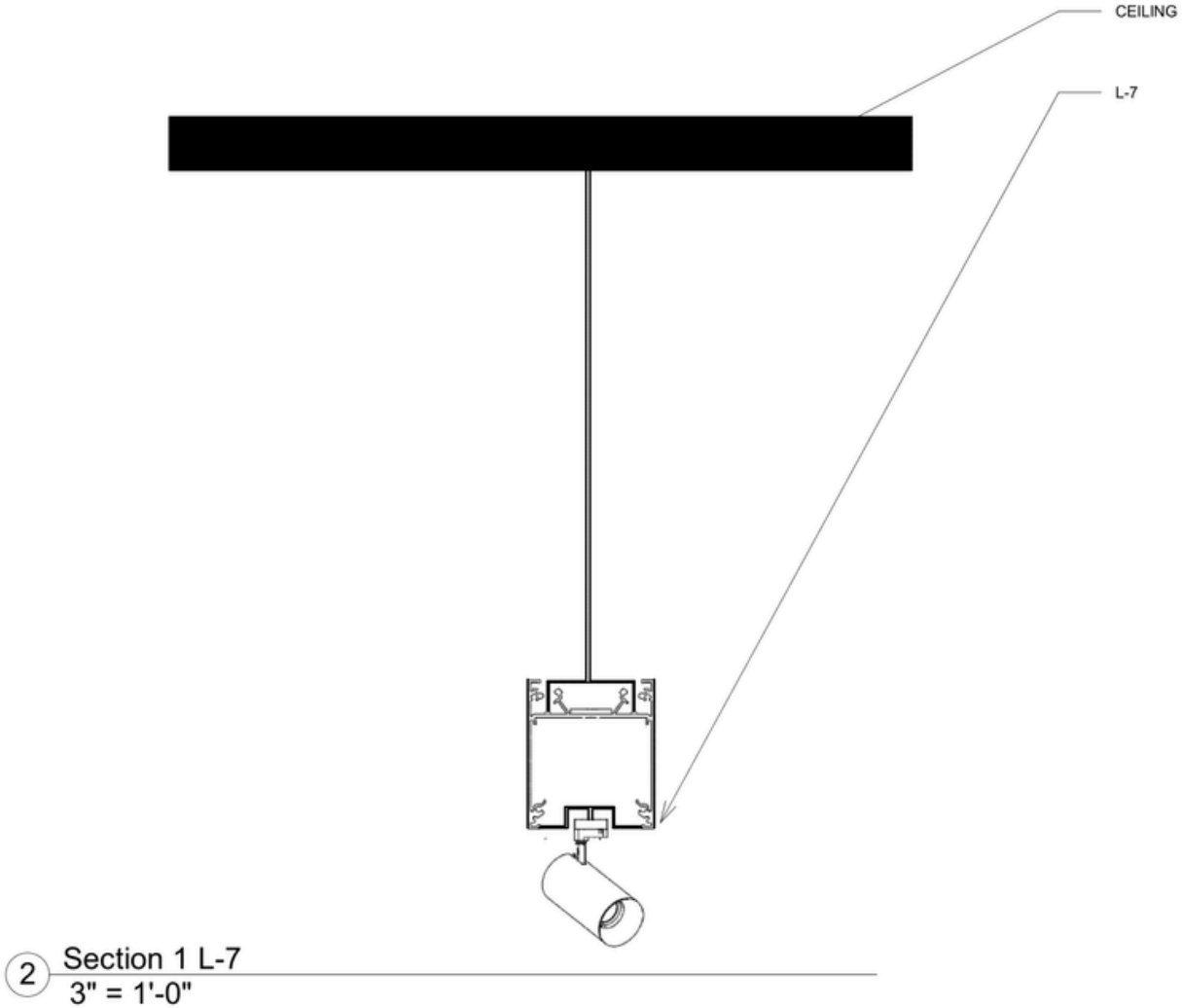
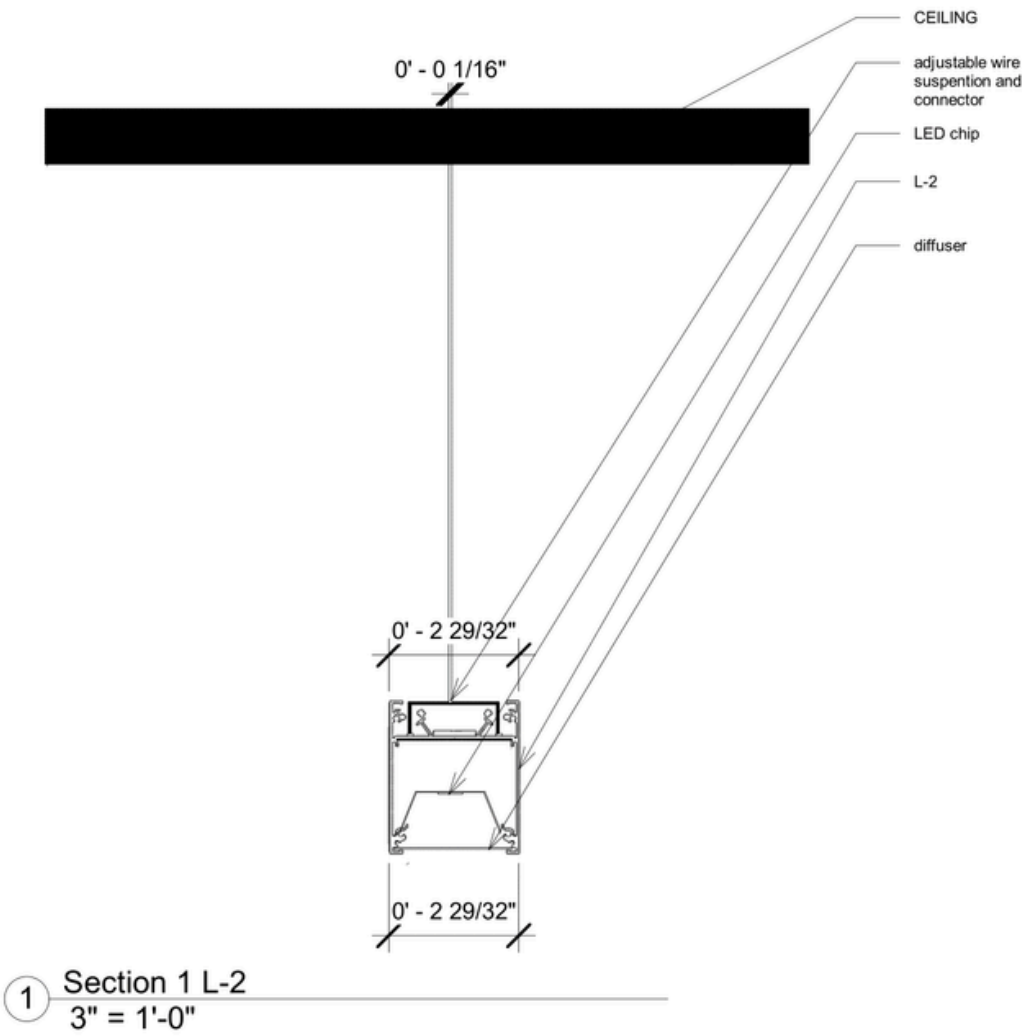
COLOR TEMPERATURE: 3000K
VOLTAGE: 230V
OPTICS: 42°
MATERIAL: EXTRUDED ALUMINIUM PROFILE, POWDER COATED

SIZE: D: 45MM, H: 164MM

QUANTITY: 36
ROOM LOCATION: 1/ATTACHED TO L-2



L-2 & L-7 LIGHTING DETAILS

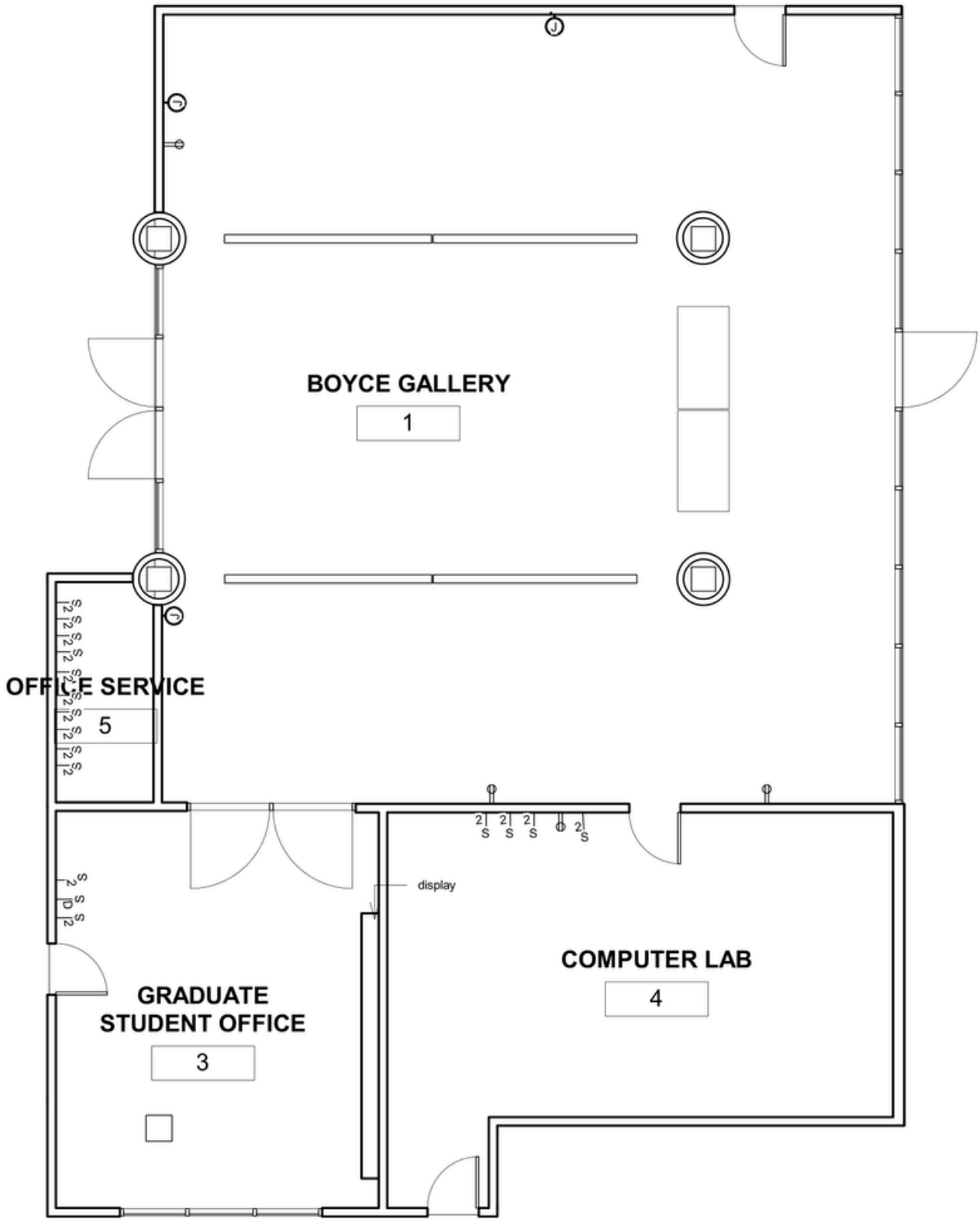


ID 3770

LIGHTING DETAILS		A112
Project number	Project Number	
Date	Issue Date	
Drawn by	Author	
		Scale 3" = 1'-0"

ELECTRICAL PLAN

SYMBOL LEGEND	
	DUPLEX OUTLET
	SPRINKLER
	HVAC: CIRCULAR OUTLET
	HVAC: SQUARE OUTLET
	ONE SWITCH WITH DIMMER
	TWO WAY SWITCH
	JUNCTION BOX



1 Level 1 ELECTRICAL PLAN
1/8" = 1'-0"

ID 3770

ELECTRICAL PLAN

Project number	Project Number
Date	Issue Date
Drawn by	MARGURIETTE E. BELLA G.

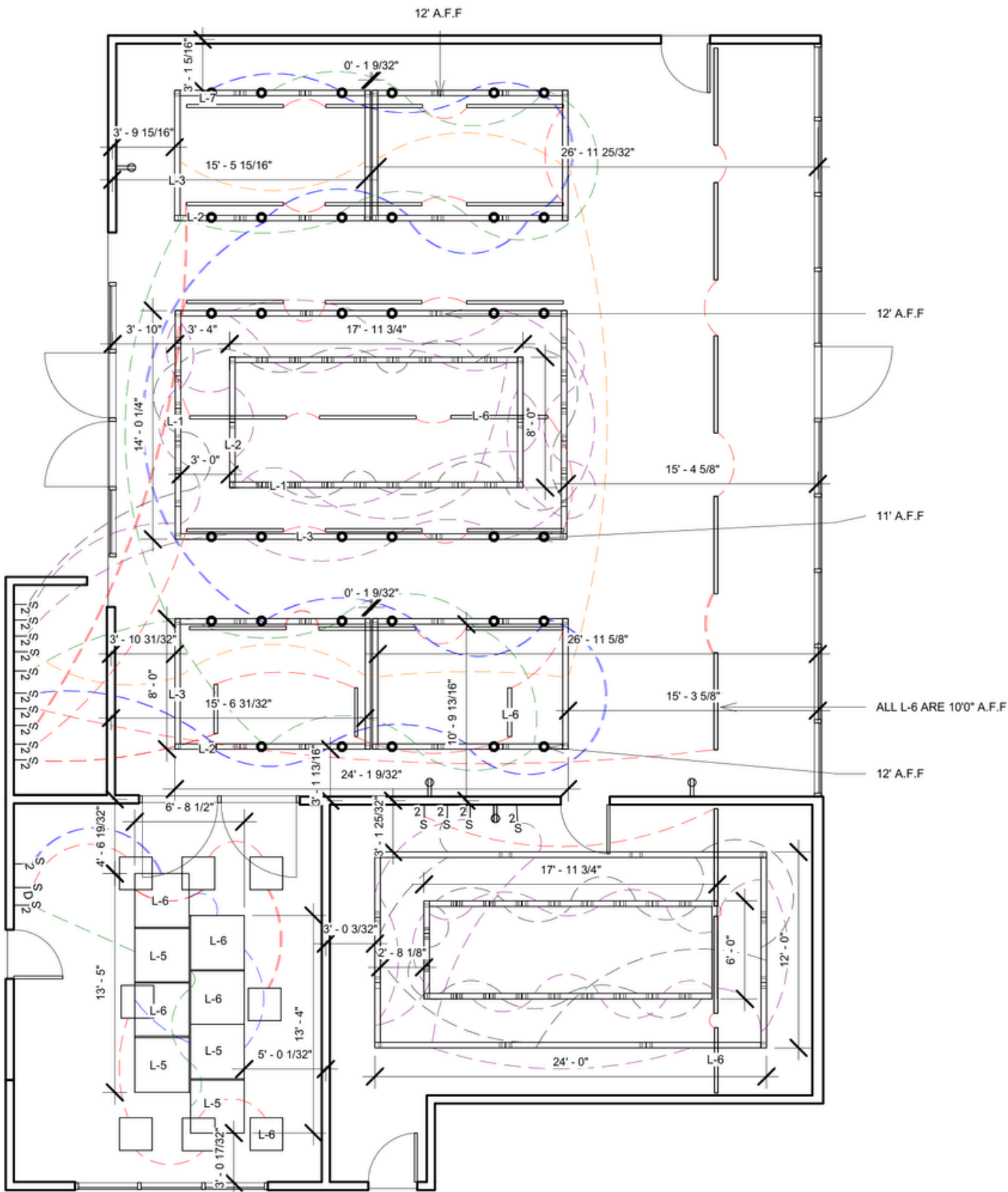
A103

Scale 1/8" = 1'-0"

4/20/2022 12:04:47 PM

LIGHTING PLAN

SYMBOL LEGEND	
	DUPLEX OUTLET
	SPRINKLER
	HVAC: CIRCULAR OUTLET
	HVAC: SQUARE OUTLET
	ONE SWITCH WITH DIMMER
	TWO WAY SWITCH
	JUNCTION BOX



1 Level 1 LIGHTING PLAN
1/8" = 1'-0"

ID 3770

LIGHTING PLAN		
Project number	Project Number	A102
Date	Issue Date	
Drawn by	MARGURIETTE E. BELLA G.	Scale 1/8" = 1'-0"

REFLECTED CEILING PLAN

MARK	MANUFACTURER	QUANTITY	MODEL DESCRIPTION	LAMP TYPE	DYNAMIC FEATURE	WATTAGE	MOUNTING	CRI	SIZE
L-1	Intra Lighting	56	Gyon C	LED	N/A	58	Ceiling Mounted	80	586mm
L-2	Intra Lighting	34	Gyon C	LED	N/A	58	Ceiling Mounted	80	1146mm
L-3	Intra Lighting	20	Gyon C	LED	N/A	58	Ceiling Mounted	80	2266mm
L-4	ACQUITY BRANDS	4	Peerless Venue™ Luminaire Square: CONCAVE	LED-Dynamic	Tunable White		Suspended	80	40" x 40"
L-5	ACQUITY BRANDS	4	Peerless Venue™ Luminaire Square: CONVEX	LED-Dynamic	Tunable White		Suspended	80	40" x 40"
L-6	N/A	40	Existing Gallery lights						
L-7	Intra Lighting	36	Pipes T 45	LED		N/A	Mounts to L-1, L-2	80	
B-1	GE	1	GE Cync Smart Bulbs LED (Bluetooth)	LED-Color Changing	Dimmable	60w	E26 Base	90	2.38" diameter

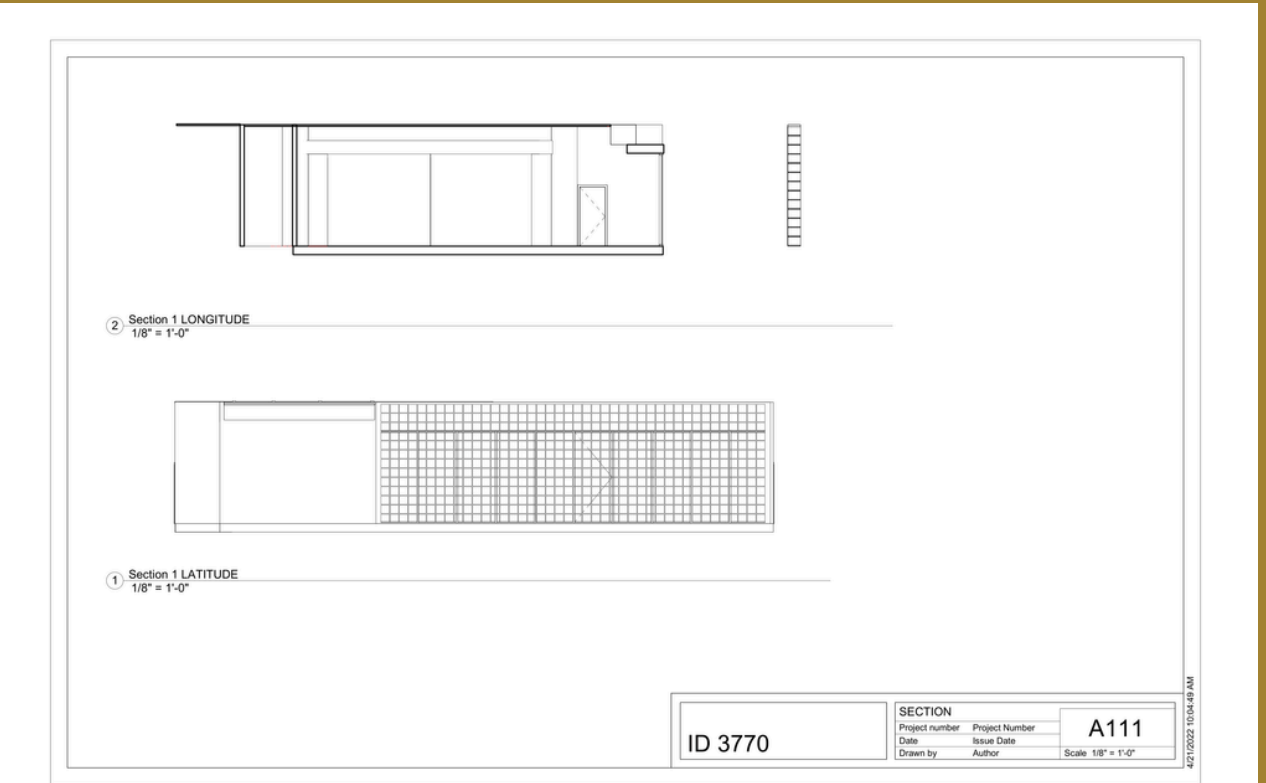
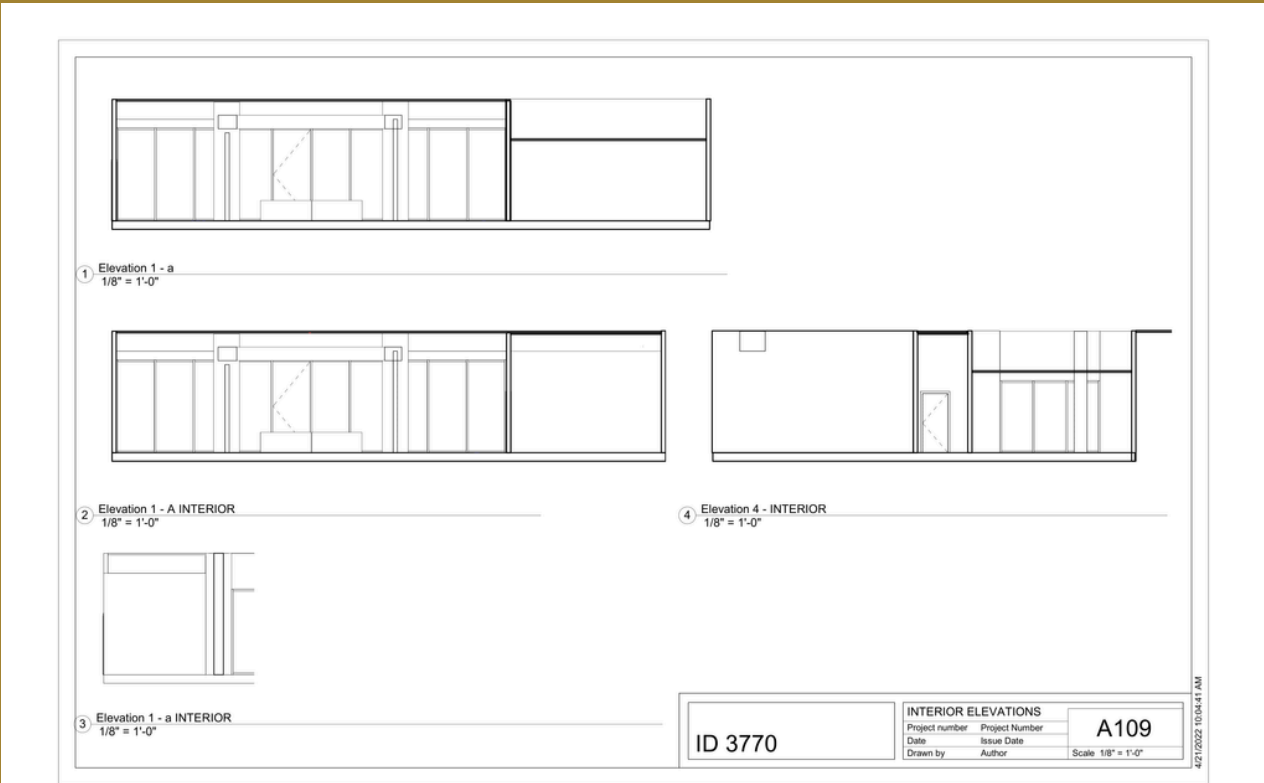
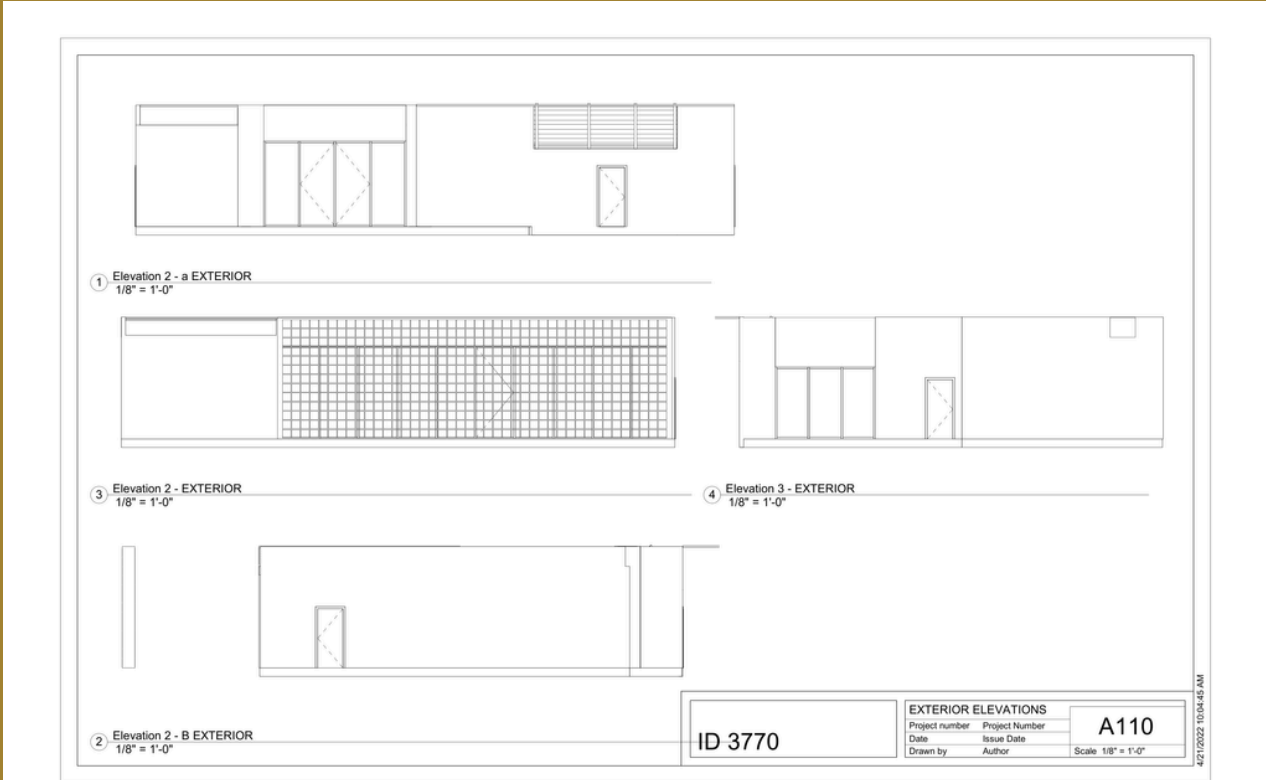
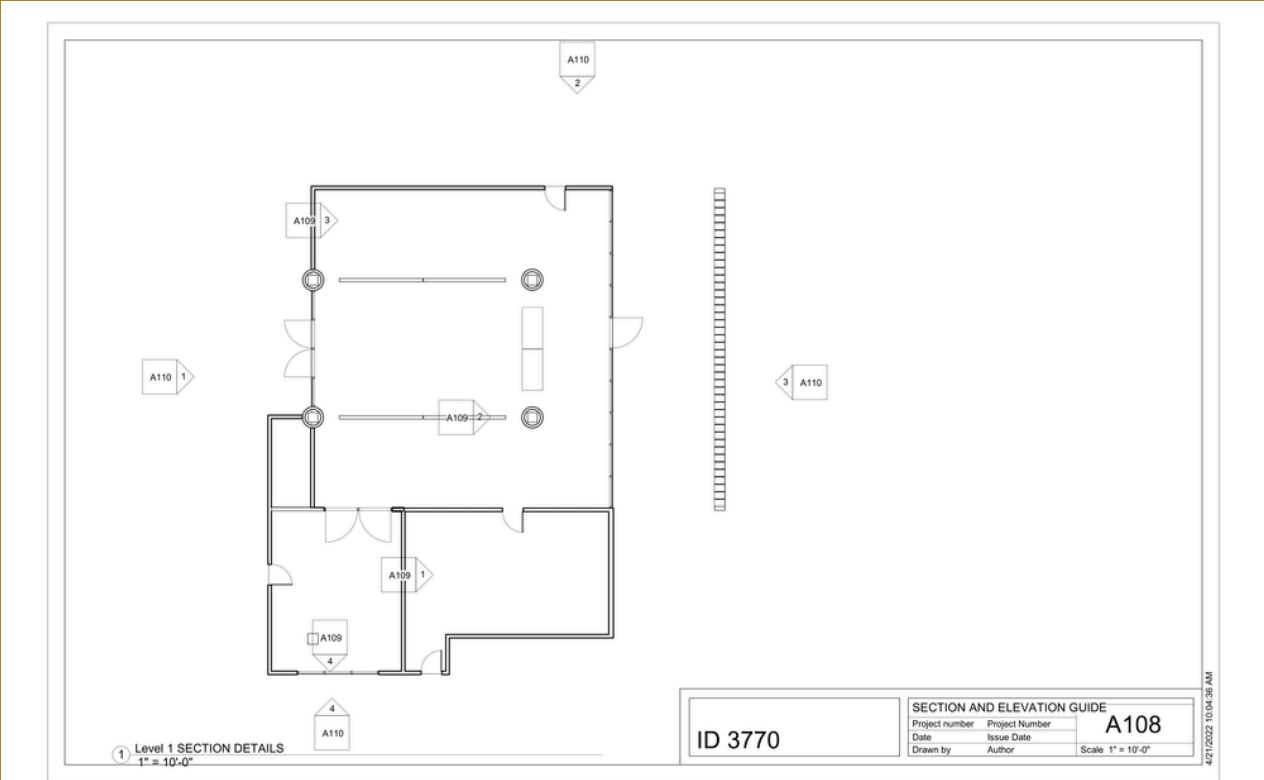
EXISTING CHANGE TO B-1

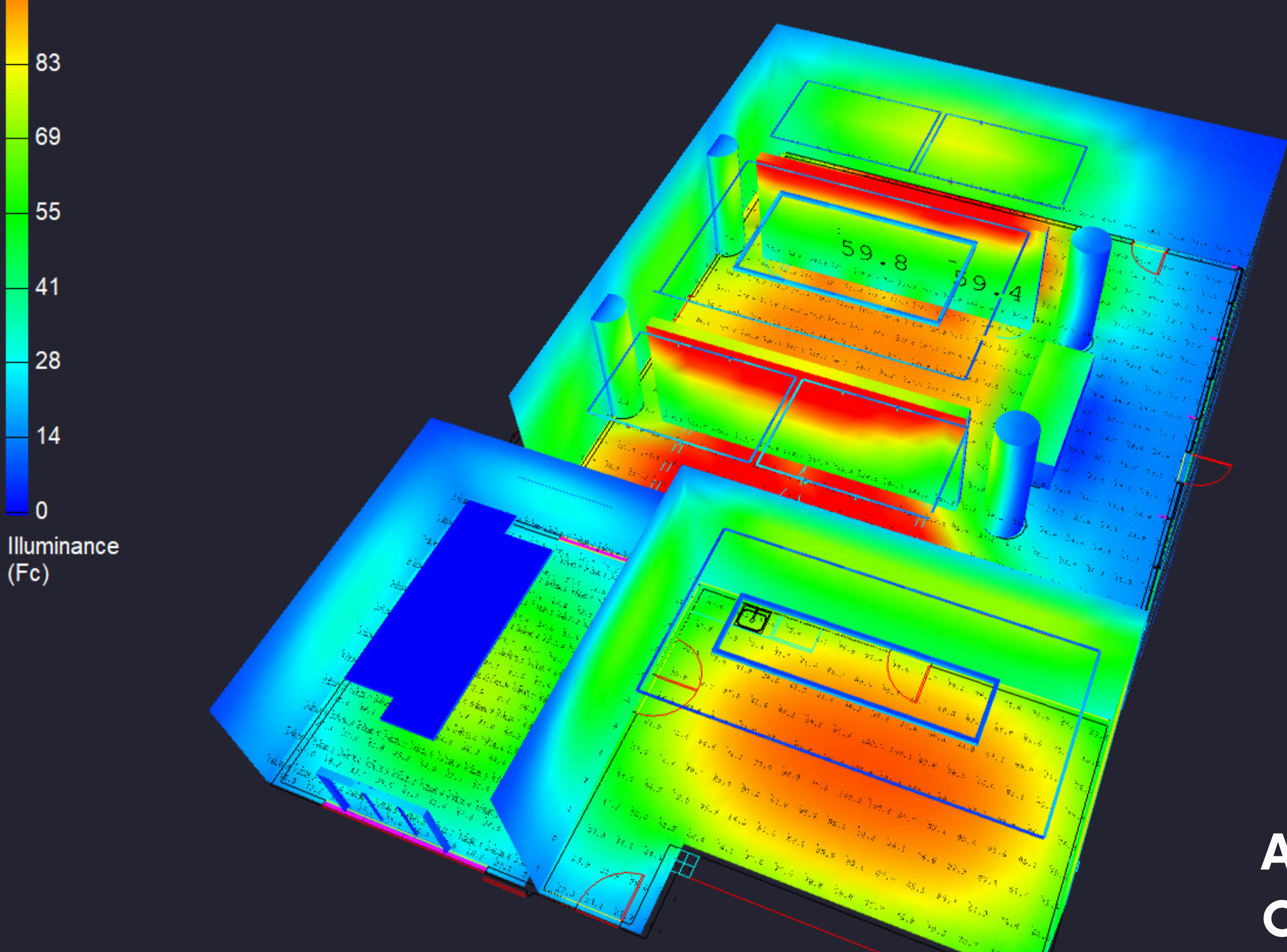
1 Level 1
1/8" = 1'-0"

ID 3770

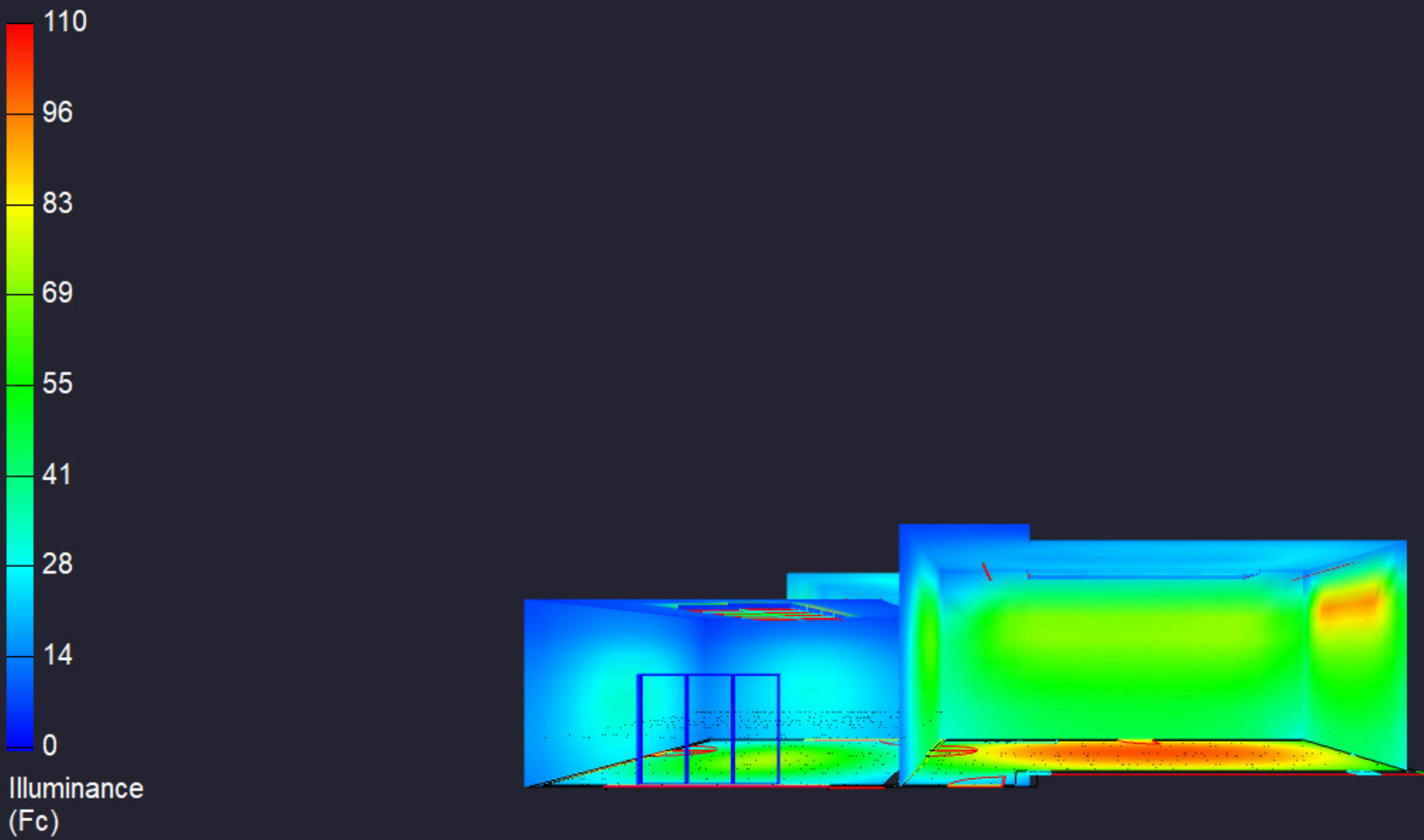
RCP		A104
Project number	Project Number	
Date	Issue Date	
Drawn by	MARGURIETTE E. BELLA G.	
		Scale 1/8" = 1'-0"

ELEVATIONS AND SECTIONS

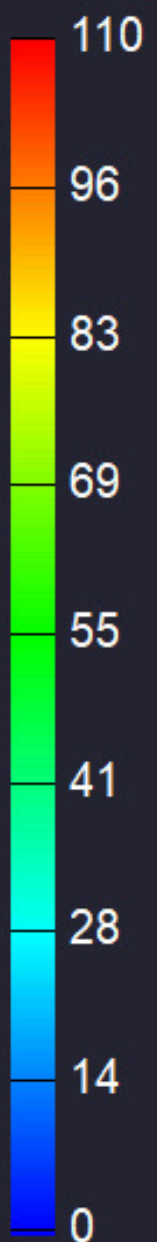




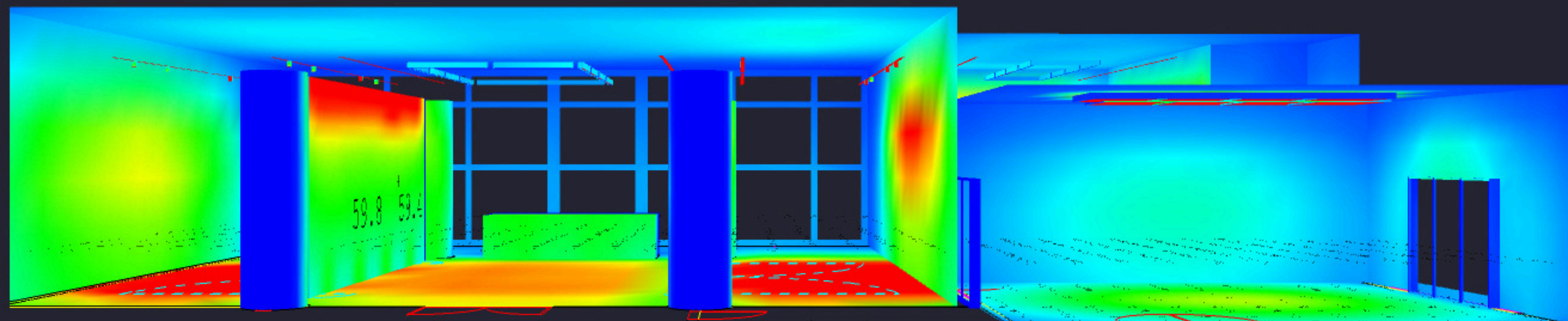
**AGI LIGHTING
CALCULATIONS**



**AGI LIGHTING
CALCULATIONS**



Illuminance
(Fc)



**AGI LIGHTING
CALCULATIONS**

THANK YOU

