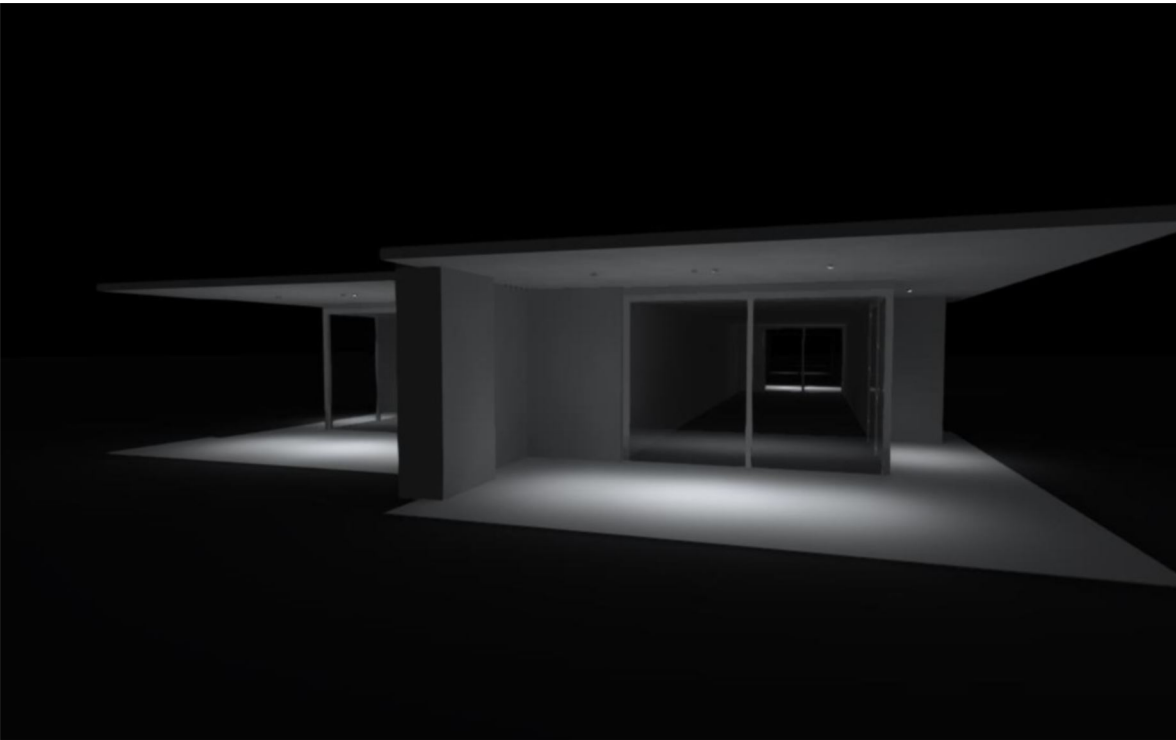




6 Scottsdale_Lighting Calculation

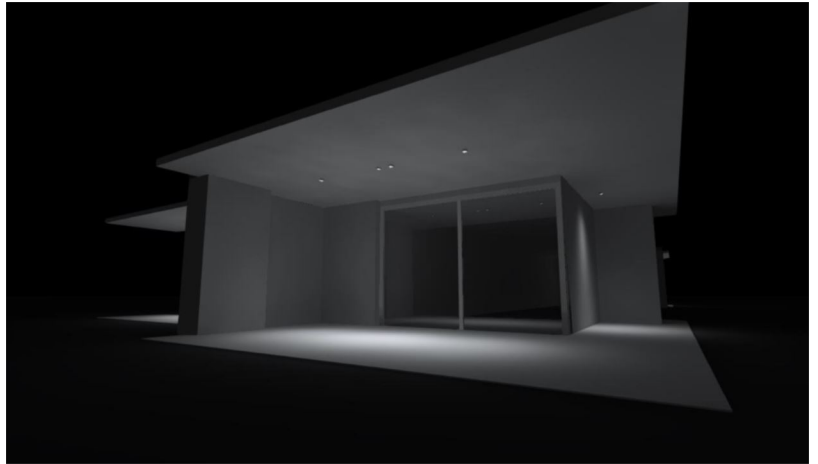
Contacts

VISUAL COMFORT & CO.

Lighting Designer
Valeria Palacios Klein

Visual Comfort & Co.
2526 W. Alabama St

Images



Luminaire list

 Φ_{total}

3600 lm

 P_{total}

48.0 W

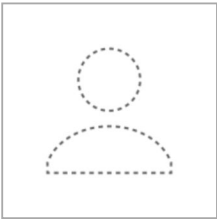
Luminous efficacy

75.0 lm/W

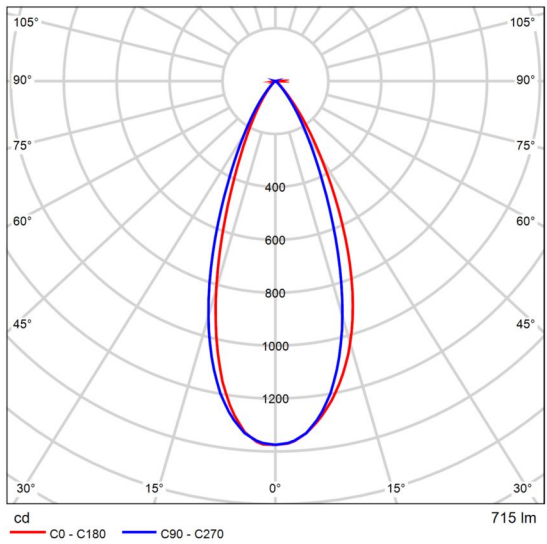
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Not yet a DIALux member	925003	LED RECESSED (MEDIUM LENS)	8.0 W	600 lm	75.0 lm/W

Product data sheet

Not yet a DIALux member - LED RECESSED (MEDIUM LENS)



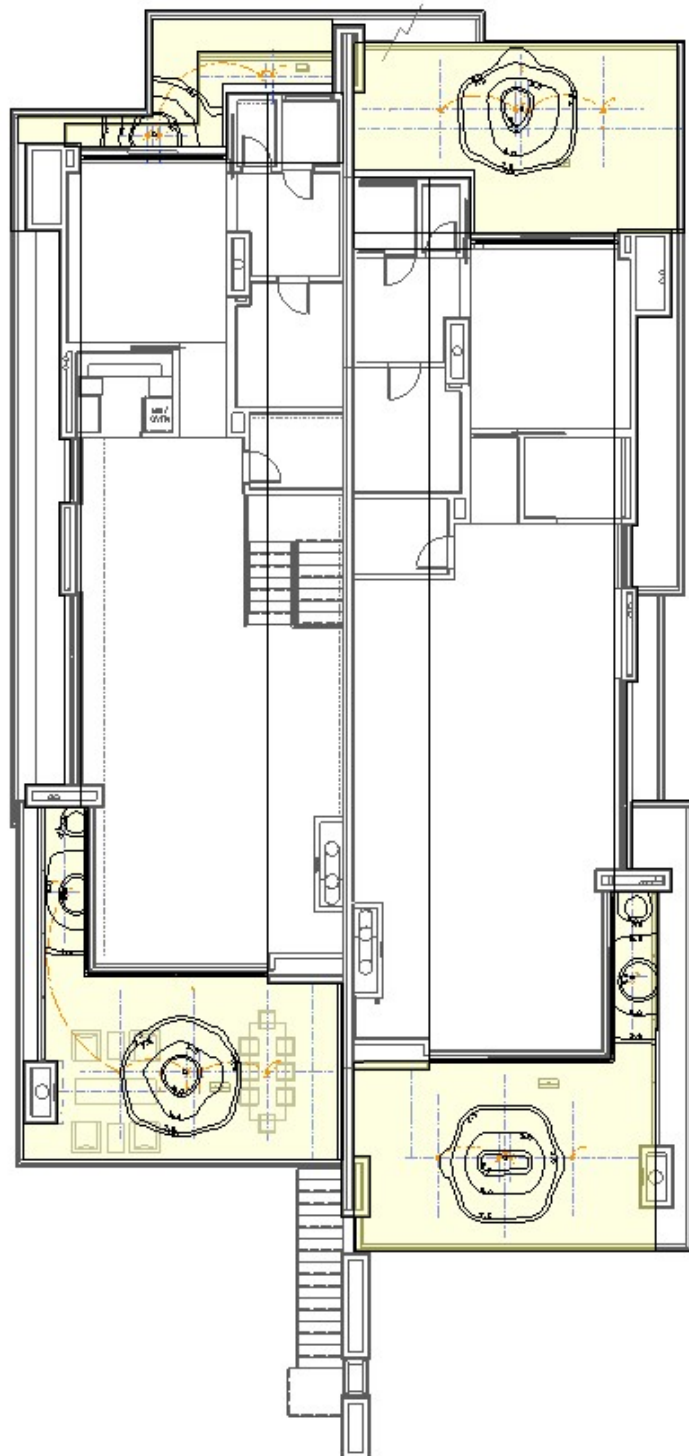
Article No.	925003
P	12.0 W
$\Phi_{\text{Luminaire}}$	715 lm
Luminous efficacy	59.6 lm/W
CCT	2700 K
CRI	100



Polar LDC

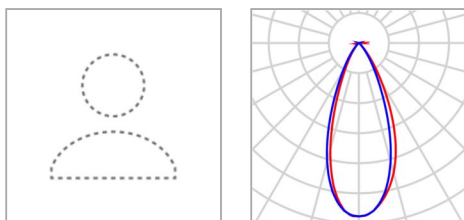
Site 1

Luminaire layout plan



Site 1

Luminaire layout plan



Manufacturer	Not yet a DIALux member	P	8.0 W
Article No.	925003	$\Phi_{\text{Luminaire}}$	600 lm
Article name	LED RECESSED (MEDIUM LENS)		
Fitting	1x LED		

1 x Not yet a DIALux member LED RECESSED (MEDIUM LENS)

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	135.422 ft / 206.149 ft / 11.155 ft	135.422 ft	206.149 ft	11.155 ft	1
X-direction	1 pcs., Centre - centre, 14.191 ft				
Arrangement	A1				

1 x Not yet a DIALux member LED RECESSED (MEDIUM LENS)

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	164.046 ft / 287.835 ft / 11.200 ft	164.046 ft	287.835 ft	11.200 ft	4
X-direction	1 pcs., Centre - centre, 13.791 ft				
Arrangement	A2				

1 x Not yet a DIALux member LED RECESSED (MEDIUM LENS)

Site 1

Luminaire layout plan

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	162.639 ft / 198.915 ft / 11.200 ft	162.639 ft	198.915 ft	11.200 ft	5
X-direction	1 pcs., Centre - centre, 11.387 ft				
Arrangement	A3				

Individual luminaires

X	Y	Mounting height	Luminaire
125.262 ft	221.466 ft	11.200 ft	2
132.841 ft	285.736 ft	11.200 ft	3
173.476 ft	214.210 ft	11.200 ft	6

Site 1

Luminaire layout plan

Individual luminaires

X	Y	Mounting height	Luminaire
125.262 ft	221.466 ft	11.200 ft	3
132.792 ft	285.601 ft	11.200 ft	4
142.373 ft	290.678 ft	11.200 ft	5
173.476 ft	214.210 ft	11.200 ft	14

Site 1 (Light scene 1)

Calculation objects

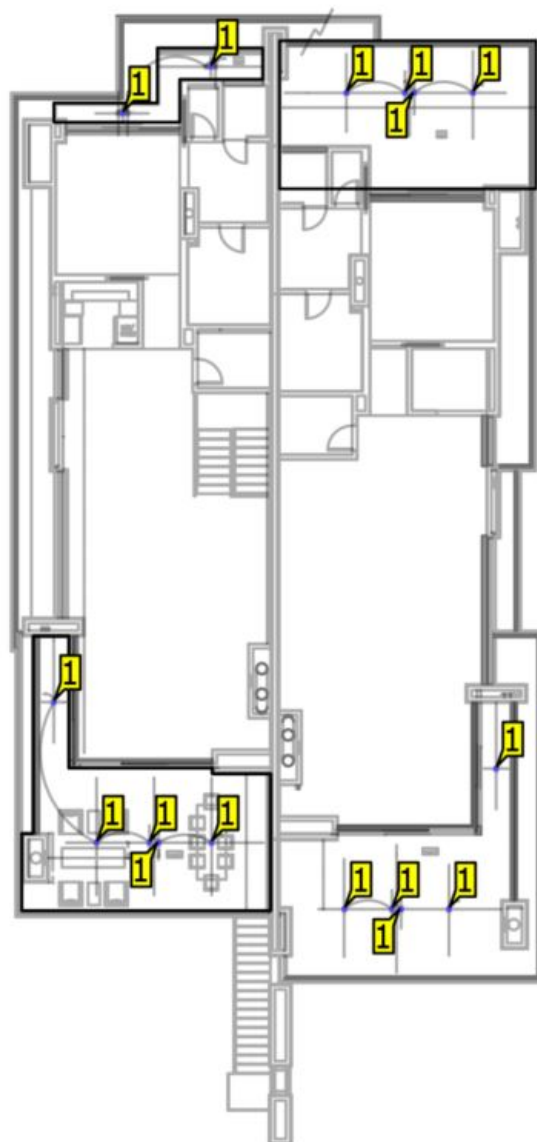
Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
Calculation surface 1 Perpendicular illuminance Height: 1.000 ft	1.58 fc	0.17 fc	4.06 fc	9.52	24.5	CG1
Calculation surface 2 Perpendicular illuminance Height: 1.000 ft	1.43 fc	0.022 fc	3.65 fc	65.1	166	CG2
Calculation surface 3 Perpendicular illuminance Height: 1.000 ft	1.45 fc	0.15 fc	3.74 fc	9.50	24.6	CG3
Calculation surface 4 Perpendicular illuminance Height: 1.000 ft	1.95 fc	0.24 fc	7.31 fc	8.22	30.8	CG4

Utilisation profile: 26 - LIGHTING FOR EXTERIORS (Facades; Facade Details or Features, With Surface Reflectance <0,5, Low Activity, LZ0 (and LZ1 curfew))

Site 1

Control group CG 1



Site 1

Control groups

Control group CG 1

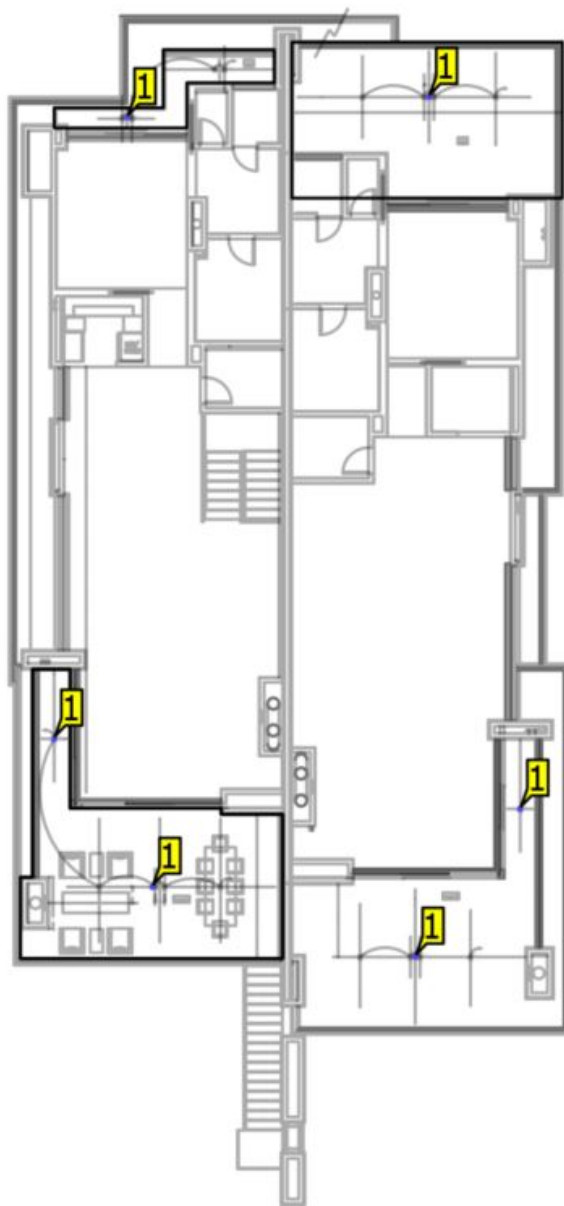
Light scene 1 30

Dimming values [%]

pcs.	Manufacturer	Article No.	Article name	P	Index
14	Not yet a DIALux member	925003	LED RECESSED (MEDIUM LENS)	12.0 W	1

Site 1

Control group CG 1



Site 1

Control groups

Control group CG 1

Light scene 1 100

Dimming values [%]

pcs.	Manufacturer	Article No.	Article name	P	Index
6	Not yet a DIALux member	925003	LED RECESSED (MEDIUM LENS)	8.0 W	1

Site 1 (Light scene 1)

Calculation objects



Site 1 (Light scene 1)

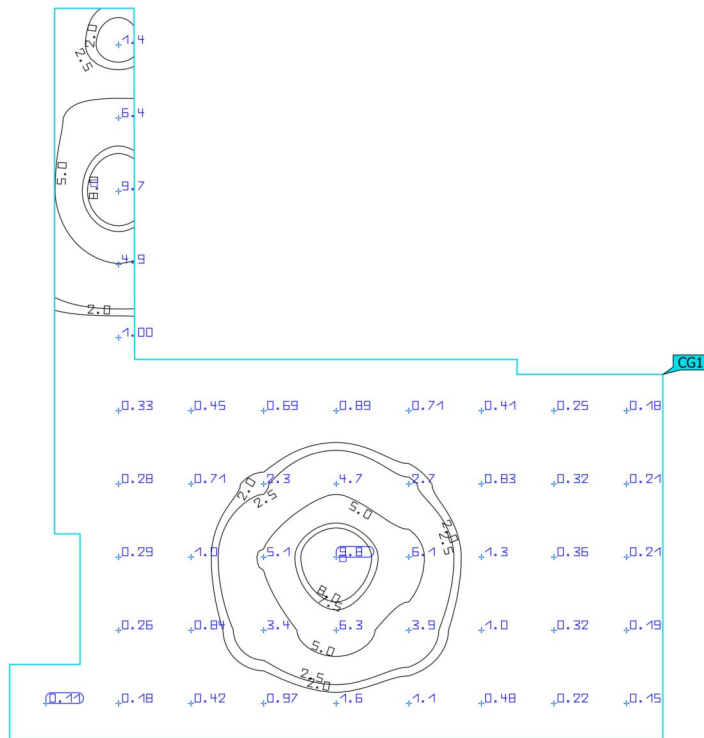
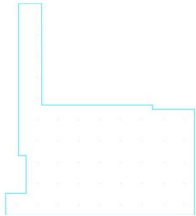
Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
Calculation surface 1 Perpendicular illuminance Height: 1.000 ft	1.85 fc	0.11 fc	9.78 fc	17.2	90.7	CG1
Calculation surface 2 Perpendicular illuminance Height: 1.000 ft	1.74 fc	0.018 fc	9.99 fc	99.0	569	CG2
Calculation surface 3 Perpendicular illuminance Height: 1.000 ft	1.40 fc	0.11 fc	9.08 fc	13.1	85.0	CG3
Calculation surface 4 Perpendicular illuminance Height: 1.000 ft	1.78 fc	0.11 fc	9.85 fc	16.2	89.8	CG4

Utilisation profile: 26 - LIGHTING FOR EXTERIORS (Facades; Facade Details or Features, With Surface Reflectance <0,5, Low Activity, LZ0 (and LZ1 curfew))

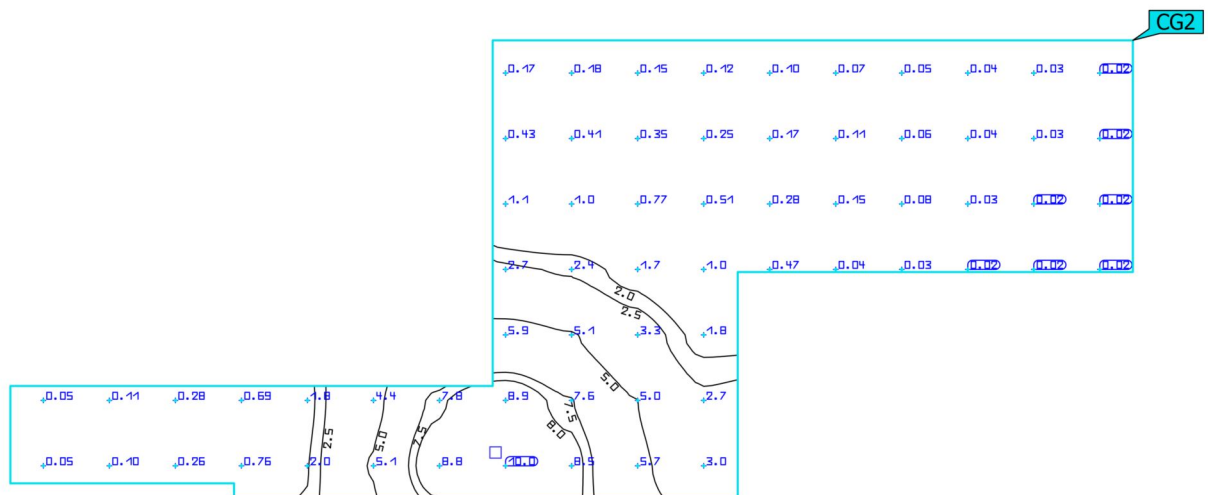
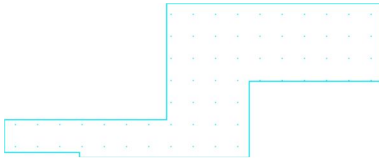
Site 1 (Light scene 1)

Calculation surface 1

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
Calculation surface 1	1.85 fc	0.11 fc	9.78 fc	17.2	90.7	CG1
Perpendicular illuminance						
Height: 1.000 ft						

Utilisation profile: 26 - LIGHTING FOR EXTERIORS (Facades; Facade Details or Features, With Surface Reflectance <0,5, Low Activity, LZ0 (and LZ1 curfew))

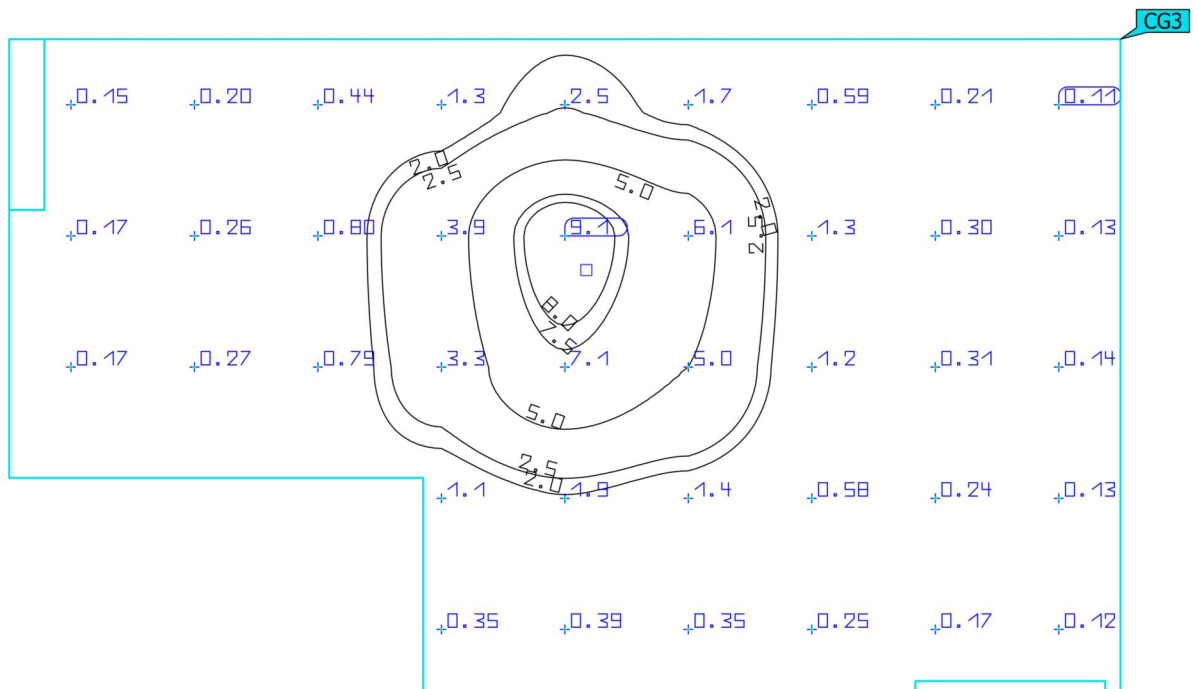
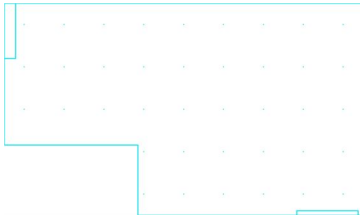
Site 1 (Light scene 1)

Calculation surface 2

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
Calculation surface 2	1.74 fc	0.018 fc	9.99 fc	99.0	569	CG2
Perpendicular illuminance						
Height: 1.000 ft						

Utilisation profile: 26 - LIGHTING FOR EXTERIORS (Facades; Facade Details or Features, With Surface Reflectance <0,5, Low Activity, LZ0 (and LZ1 curfew))

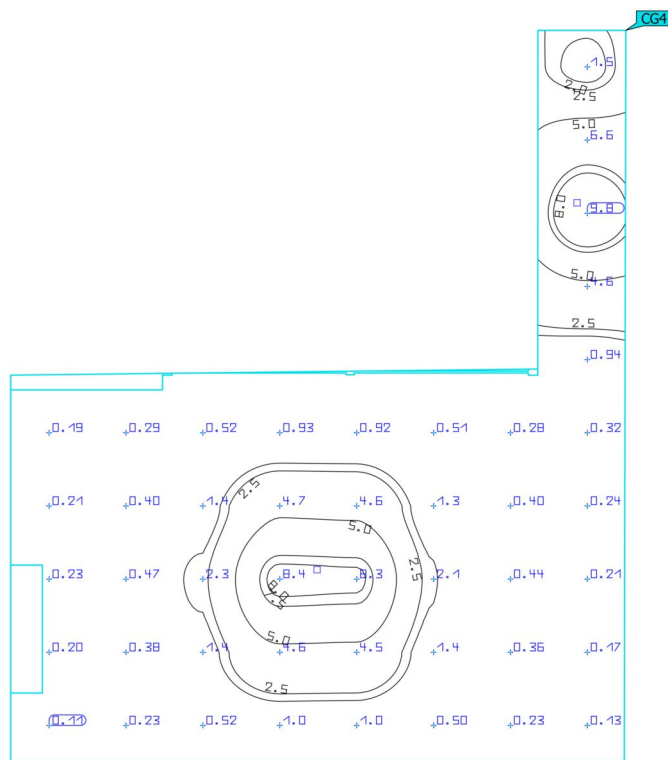
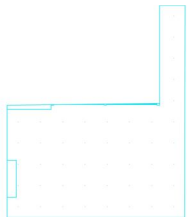
Site 1 (Light scene 1)

Calculation surface 3

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
Calculation surface 3	1.40 fc	0.11 fc	9.08 fc	13.1	85.0	CG3
Perpendicular illuminance						
Height: 1.000 ft						

Utilisation profile: 26 - LIGHTING FOR EXTERIORS (Facades; Facade Details or Features, With Surface Reflectance <0,5, Low Activity, LZ0 (and LZ1 curfew))

Site 1 (Light scene 1)

Calculation surface 4

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
Calculation surface 4	1.78 fc	0.11 fc	9.85 fc	16.2	89.8	CG4
Perpendicular illuminance						
Height: 1.000 ft						

Utilisation profile: 26 - LIGHTING FOR EXTERIORS (Facades; Facade Details or Features, With Surface Reflectance <0,5, Low Activity, LZ0 (and LZ1 curfew))