

Portjco Sport

PADDLE LIGHTING DESIGN CALCULATION DIALUX





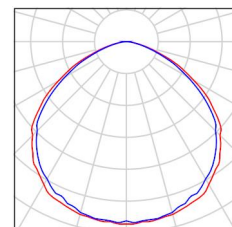
Table of contents

PISTA DE PADEL	
Table of contents	1
Luminaire parts list	2
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	
Luminaire Data Sheet	3
Escena exterior 1	
Luminaires (layout plan)	4
Sport Luminaires (Coordinates List)	5
False Colour Rendering	7
Exterior Surfaces	
Trama de cálculo 1	
Isolines (E, Perpendicular)	8
Greyscale (E, Perpendicular)	9
Value Chart (E, Perpendicular)	10



PISTA DE PADEL / Luminaire parts list

8 Pieces V-TAC 419 V-TAC 200W LED Floodlight SMD
SAMSUNG CHIP Black Body 6400K
Article No.: 419
Luminous flux (Luminaire): 16000 lm
Luminous flux (Lamps): 16000 lm
Luminaire Wattage: 200.0 W
Luminaire classification according to CIE: 100
CIE flux code: 50 84 98 100 100
Fitting: 1 x V-TAC 200W LED Floodlight SMD
SAMSUNG CHIP Black Body 6400K (Correction
Factor 1.000).



**IP65
RATING**

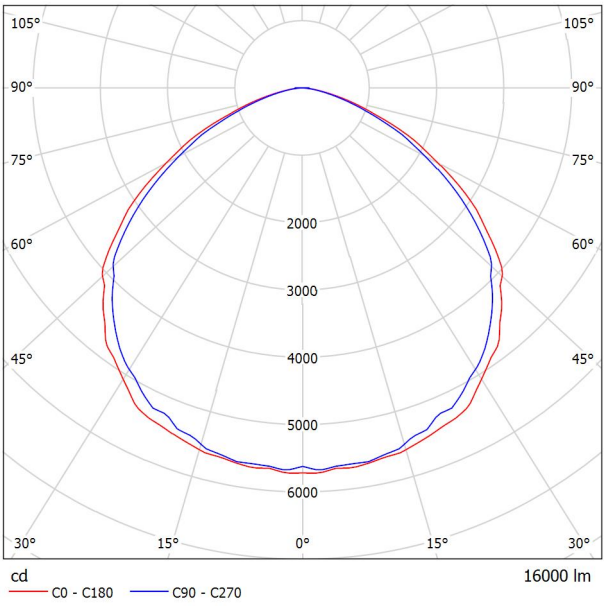
**5 YEARS
WARRANTY***





V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K /
Luminaire Data Sheet

Luminous emittance 1:

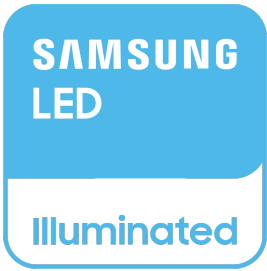


Luminaire classification according to CIE: 100
CIE flux code: 50 84 98 100 100

V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K
5 YEARS WARRANTY

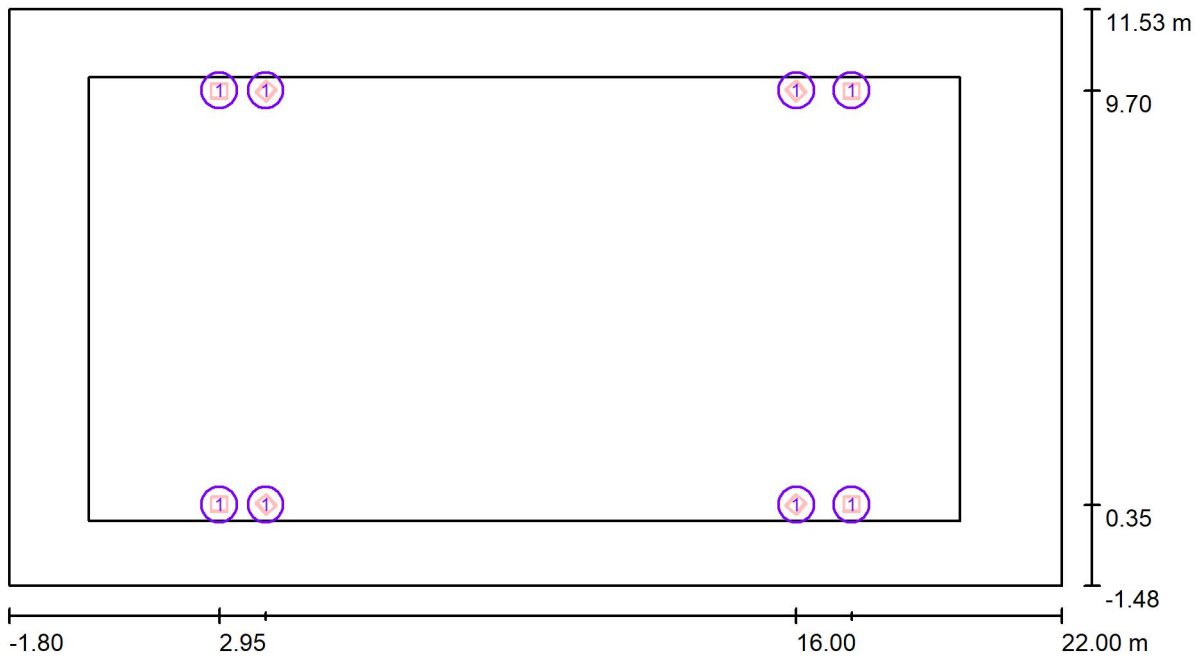
Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	29.0	30.3	29.3	30.5	30.7	28.6	29.9	28.9	30.1	30.3	
	3H	30.0	31.2	30.3	31.4	31.7	29.5	30.7	29.8	30.9	31.2	
	4H	30.3	31.4	30.6	31.6	31.9	29.7	30.8	30.1	31.1	31.4	
	6H	30.4	31.4	30.8	31.7	32.0	29.8	30.8	30.2	31.1	31.4	
	8H	30.4	31.4	30.8	31.7	32.0	29.8	30.8	30.2	31.1	31.4	
	12H	30.4	31.3	30.8	31.6	32.0	29.8	30.7	30.2	31.1	31.4	
4H	2H	29.5	30.6	29.8	30.8	31.1	29.2	30.2	29.5	30.5	30.8	
	3H	30.6	31.5	31.0	31.9	32.2	30.2	31.1	30.6	31.4	31.8	
	4H	31.0	31.8	31.4	32.1	32.5	30.5	31.3	30.9	31.7	32.0	
	6H	31.2	31.9	31.6	32.3	32.7	30.7	31.4	31.1	31.8	32.1	
	8H	31.2	31.9	31.7	32.3	32.7	30.7	31.3	31.1	31.7	32.2	
	12H	31.2	31.8	31.7	32.2	32.7	30.7	31.3	31.2	31.7	32.1	
8H	4H	31.1	31.7	31.5	32.1	32.5	30.6	31.3	31.1	31.7	32.1	
	6H	31.3	31.9	31.8	32.3	32.7	30.9	31.4	31.3	31.8	32.3	
	8H	31.4	31.9	31.9	32.3	32.8	30.9	31.4	31.4	31.8	32.3	
	12H	31.4	31.8	31.9	32.3	32.8	30.9	31.3	31.4	31.8	32.3	
	4H	31.1	31.6	31.5	32.1	32.5	30.6	31.2	31.1	31.6	32.0	
	6H	31.3	31.8	31.8	32.2	32.7	30.9	31.3	31.3	31.8	32.2	
12H	8H	31.4	31.8	31.9	32.3	32.8	30.9	31.3	31.4	31.8	32.3	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.2 / -0.2					+0.2 / -0.2					
S = 1.5H		+0.4 / -0.7					+0.5 / -0.8					
S = 2.0H		+0.9 / -1.3					+1.0 / -1.6					
Standard table		BK03					BK03					
Correction Summand		13.6					13.2					
Corrected Glare Indices referring to 16000lm Total Luminous Flux												





Escena exterior 1 / Luminaires (layout plan)



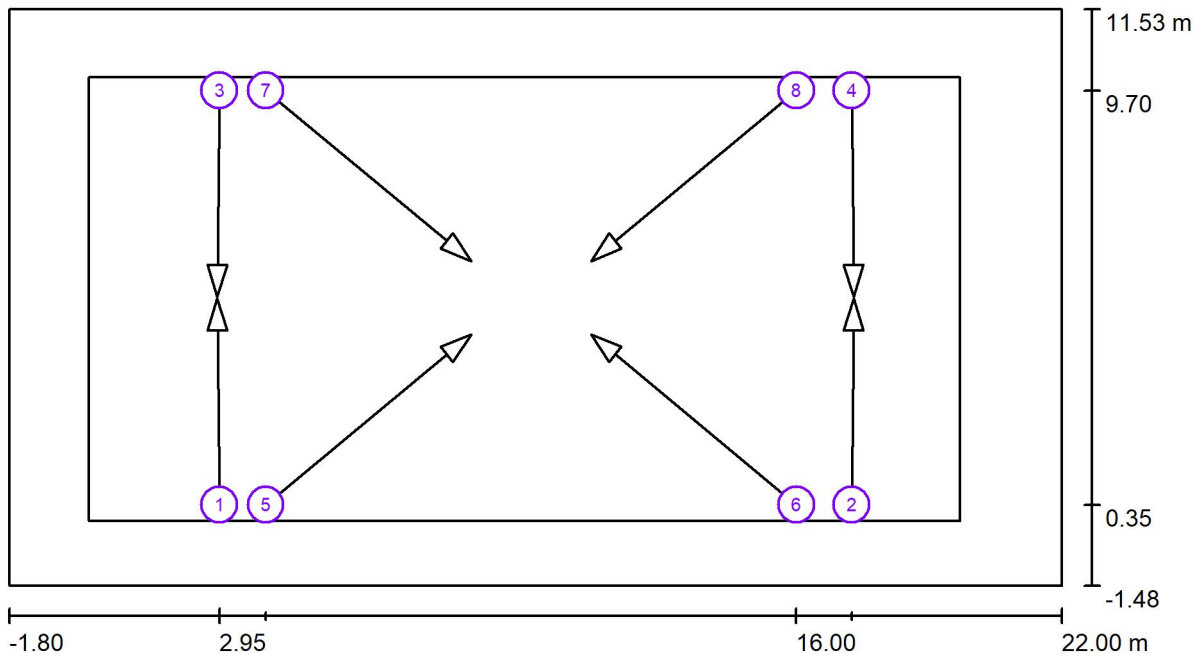
Scale 1 : 171

Luminaire Parts List

No.	Pieces	Designation
1	8	V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K



Escena exterior 1 / Sport Luminaires (Coordinates List)



Scale 1 : 171

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	1	2.950	0.350	6.000	2.900	5.000	0.000	52.2	(C 90, G IMax)	/
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	2	17.250	0.350	6.000	17.300	5.000	0.000	52.2	(C 90, G IMax)	/
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	3	2.950	9.703	6.000	2.900	5.053	0.000	52.2	(C 90, G IMax)	/
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	4	17.250	9.703	6.000	17.300	5.053	0.000	52.2	(C 90, G IMax)	/



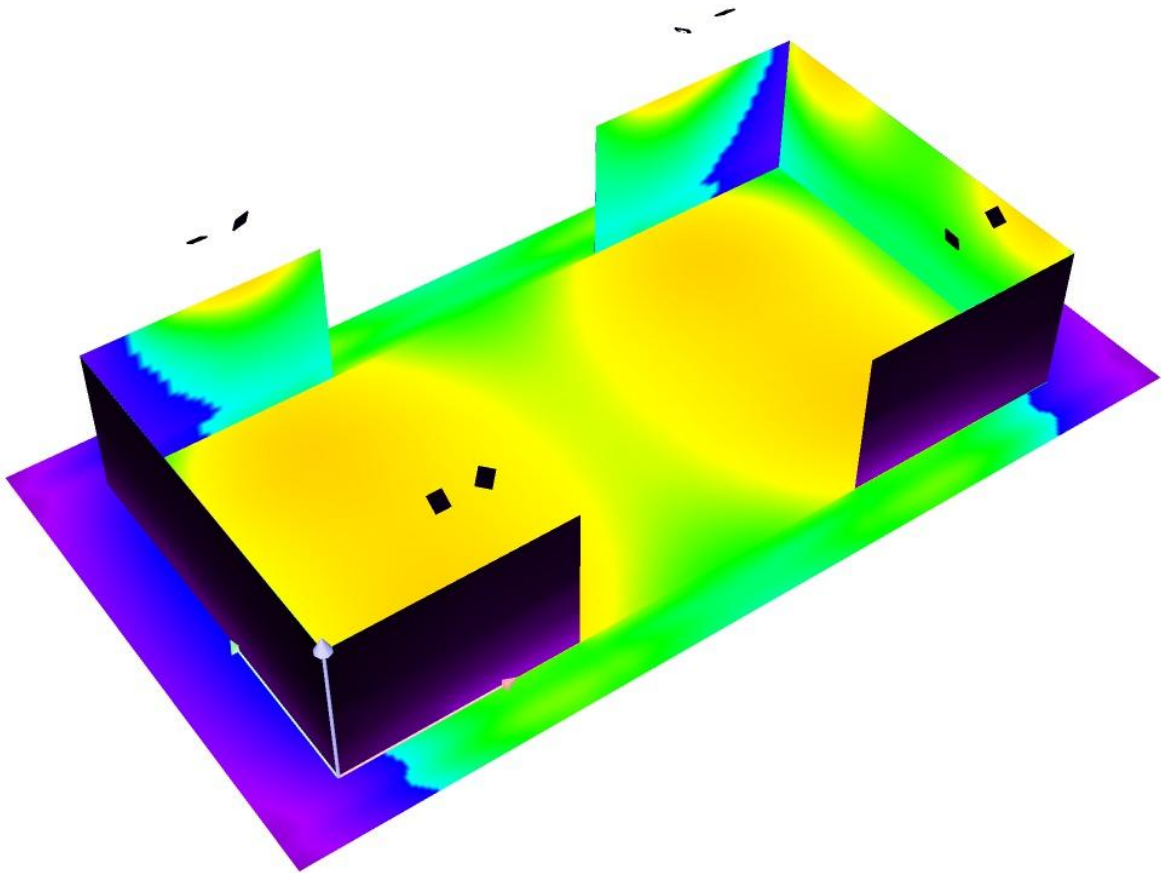
Escena exterior 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	5	4.000	0.350	6.000	8.646	4.200	0.000	44.8	(C 90, G IMax)	/
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	6	16.000	0.350	6.000	11.354	4.200	0.000	44.8	(C 90, G IMax)	/
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	7	4.000	9.703	6.000	8.646	5.853	0.000	44.8	(C 90, G IMax)	/
V-TAC 419 V-TAC 200W LED Floodlight SMD SAMSUNG CHIP Black Body 6400K	8	16.000	9.703	6.000	11.354	5.853	0.000	44.8	(C 90, G IMax)	/



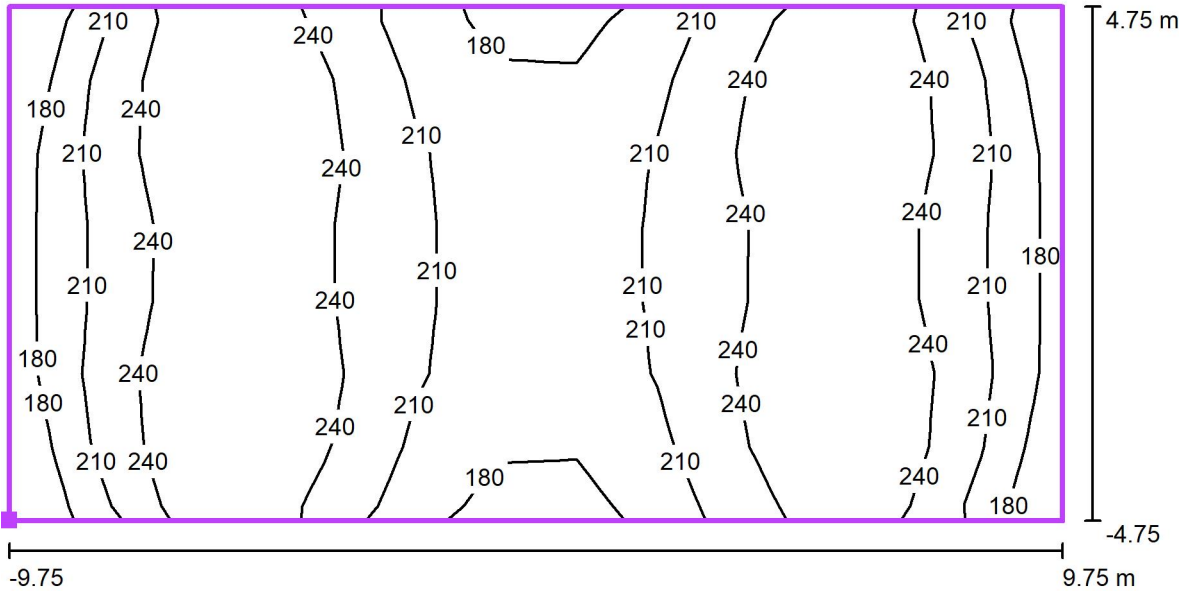
Escena exterior 1 / False Colour Rendering



0 50 100 100 150 200 350 500 700 lx

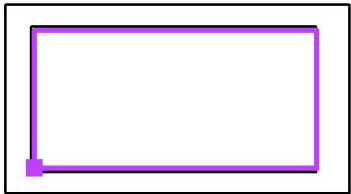


Escena exterior 1 / Trama de cálculo 1 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 140

Position of surface in external scene:
Marked point: (0.250 m, 0.241 m,
0.000 m)

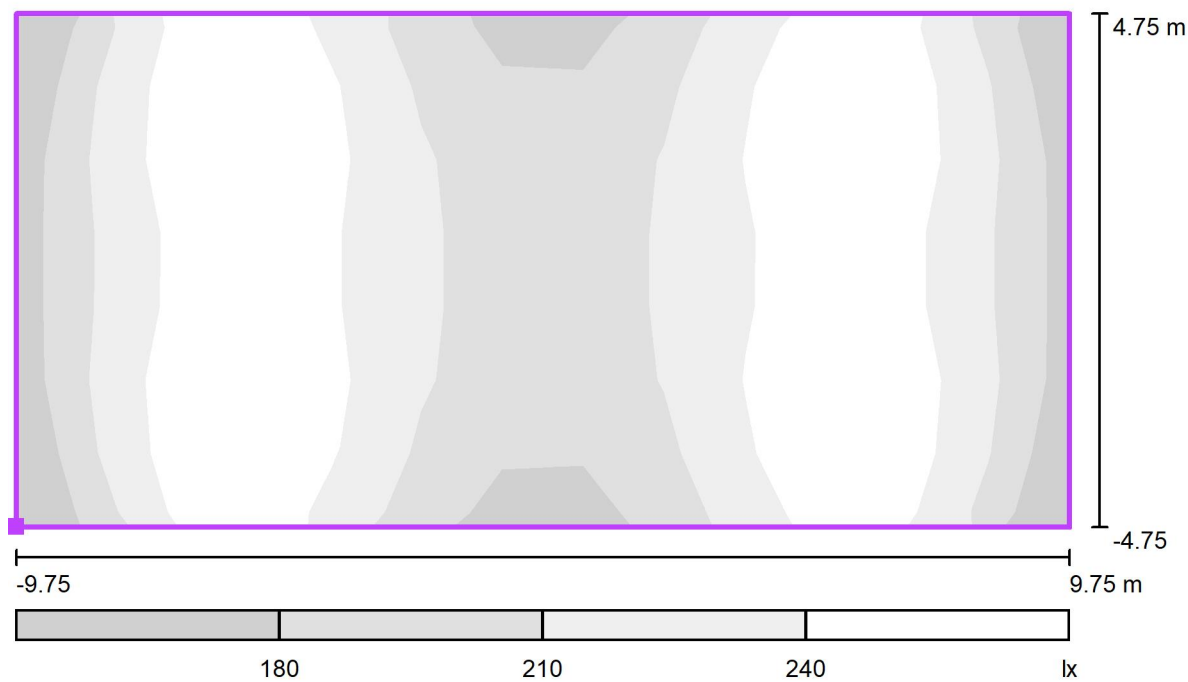


Grid: 13 x 7 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
224	169	276	0.76	0.61

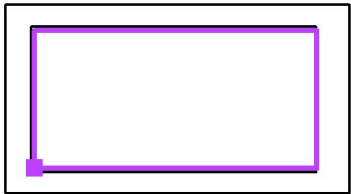


Escena exterior 1 / Trama de cálculo 1 / Greyscale (E, Perpendicular)



Scale 1 : 140

Position of surface in external scene:
Marked point: (0.250 m, 0.241 m,
0.000 m)

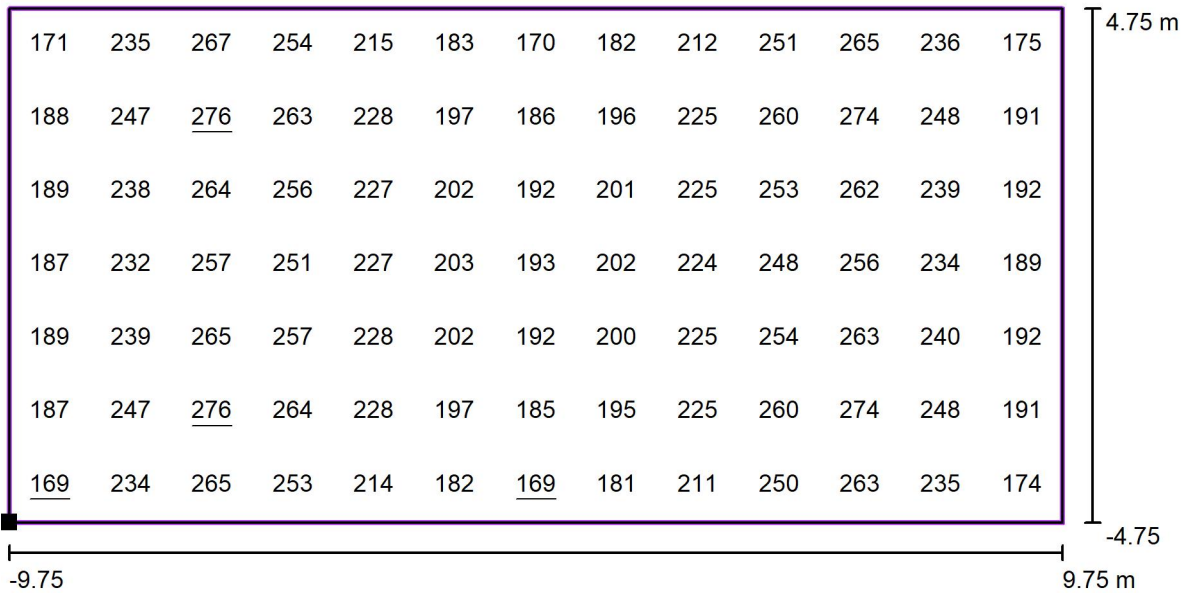


Grid: 13 x 7 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
224	169	276	0.76	0.61

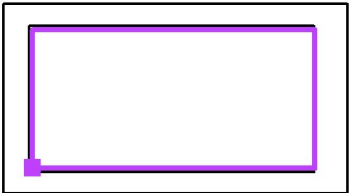


Escena exterior 1 / Trama de cálculo 1 / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 140

Position of surface in external scene:
Marked point: (0.250 m, 0.241 m,
0.000 m)



Grid: 13 x 7 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
224	169	276	0.76	0.61