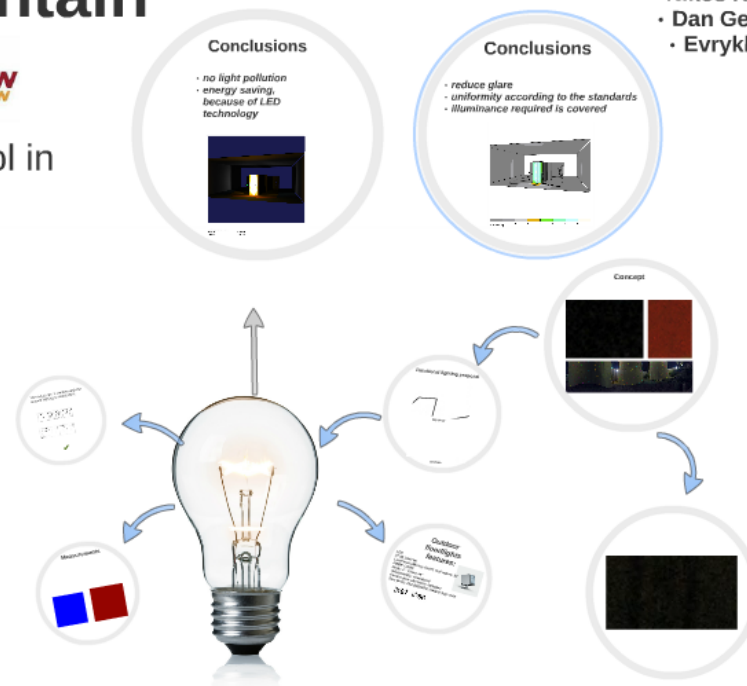


Magic Mountain



Berlin Training School in
Lighting Design best
practices (LiDe3)

- Cristian Istrate
- Nikos Kalogiannakis
- Dan George Petean
- Evrykleia Tzimou

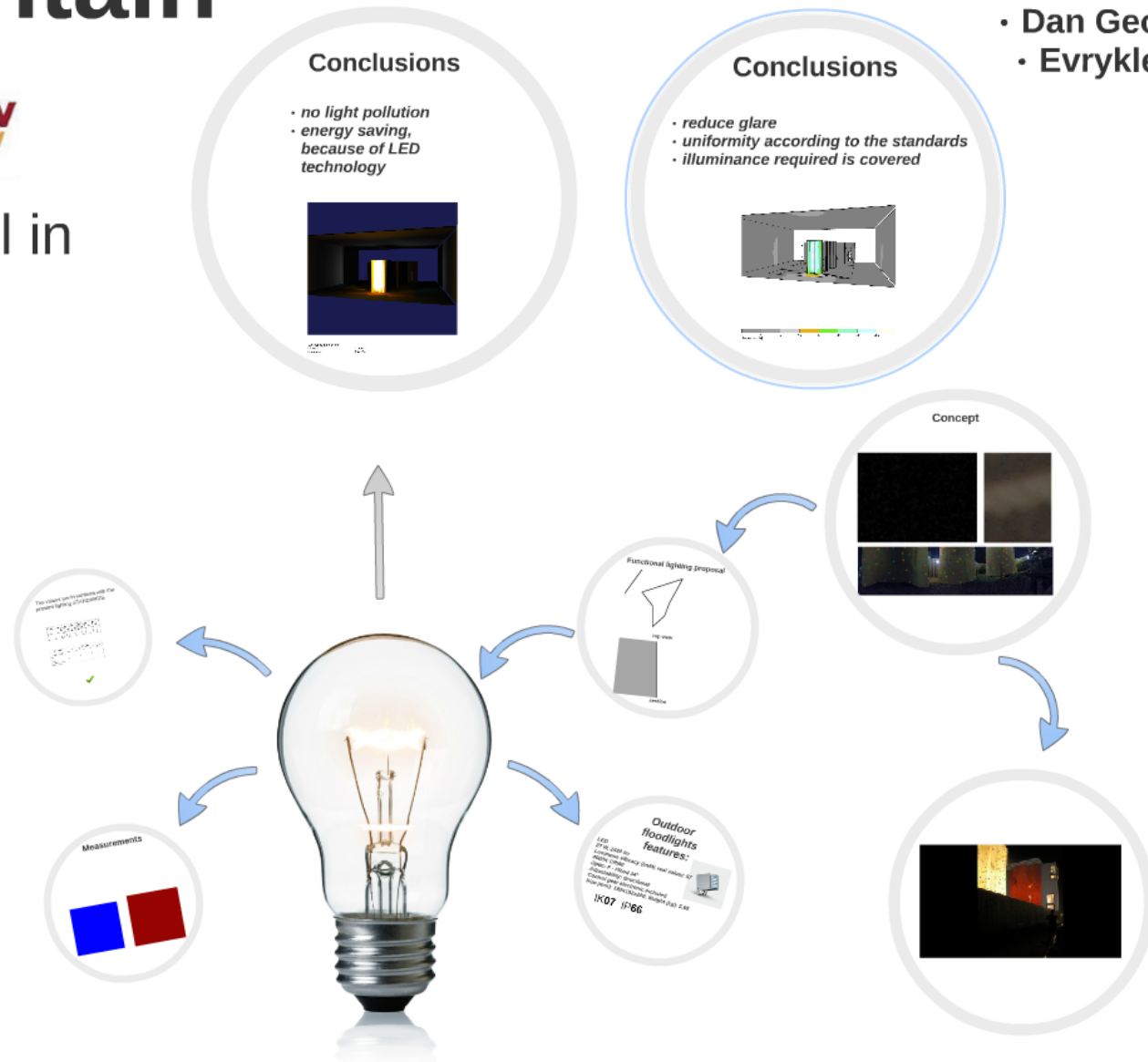


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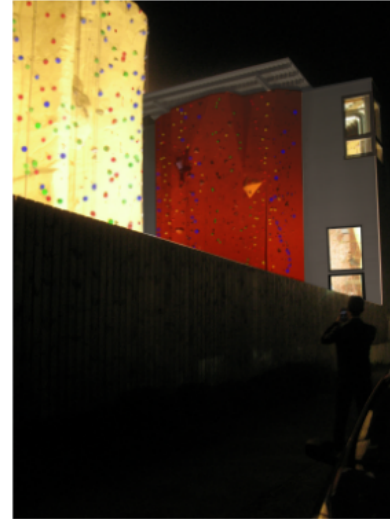


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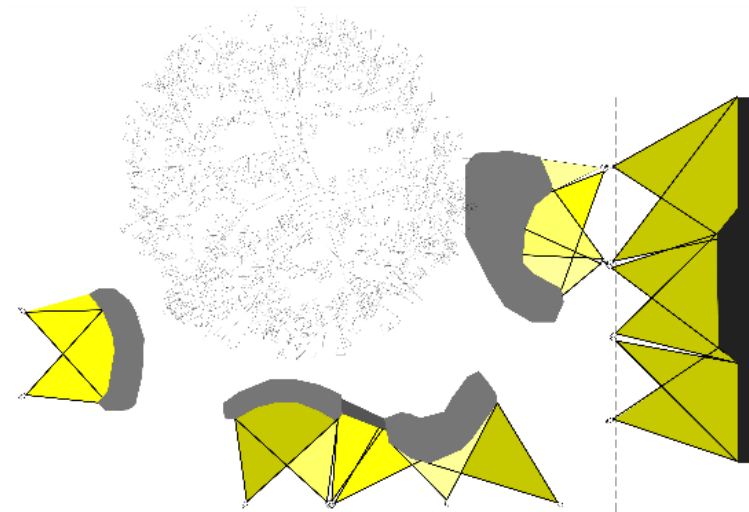
- Cristian Istrate
- Nikos Kalogiannakis
- Dan George Petean
- Evrykleia Tzimou



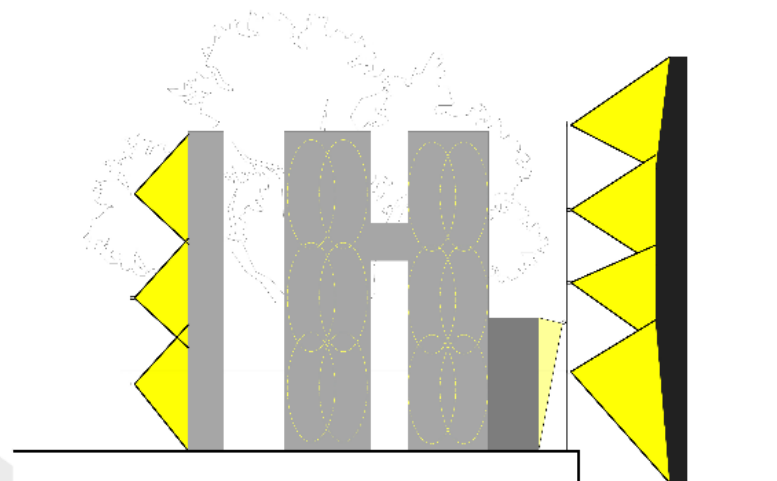
Concept



Functional lighting proposal



top view



section



Outdoor floodlights features:

LED

27 W, 2430 lm

Luminous efficacy (lm/W, real value): 57

4000K CRI80

Optic: F - Flood 34°

Adjustability: directional

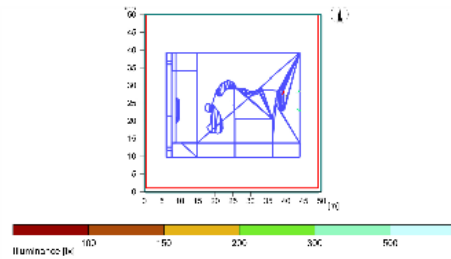
Control gear electronic included

Size (mm): 192x192x200, Weight (kg): 5.65



IK07 IP66

Measurements



General
Calculation algorithm: ray
Position
Measurement factor

Average surface factor
17.50 m
0.05

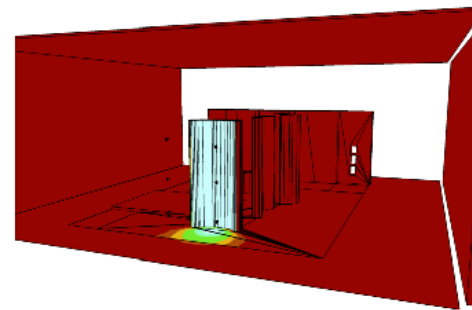
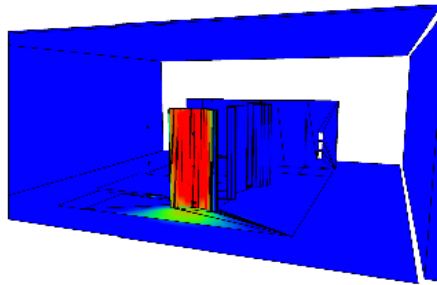
Evaluation area 2

L=1
T=10
E=10000 (lx)
L=10000 (lx)
Position

Reference plane 2.1

Horizontal
100 m
10 to 10
0.05
0.40
1000 m (lx) (0.050)

Type No/Make



The values are in conform with the present lighting STANDARDS.

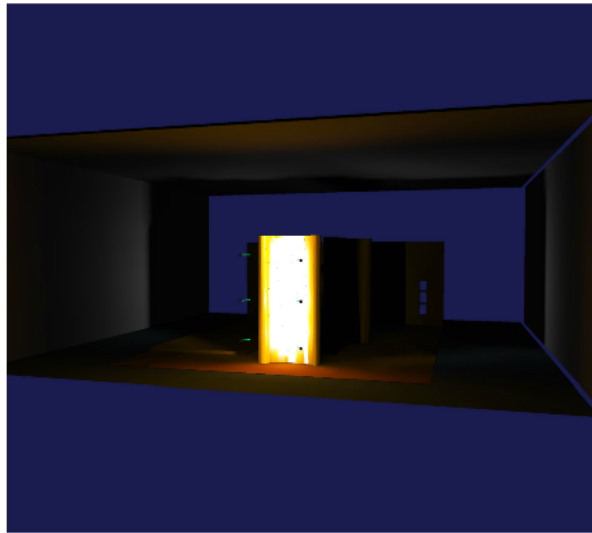
Wall climb			—		—		—		—	
Class	Horizontal Illuminance		Vertical Illuminance (Wall climb)						R _a	
	E _h lx	E _h /E _{av}	E _v lx	E _v /E _{av}						
I	500	0.7	500	0.7				60		
II	300	0.6	300	0.6				60		
III	200	0.5	200	0.5				20		

Level of competition	Lighting class		
	I	II	III
International and National	*		
Regional	*	*	
Local	*	*	*
Training		*	*
Recreational/School sports (Physical education)			*



Conclusions

- *no light pollution*
- *energy saving,
because of LED
technology*

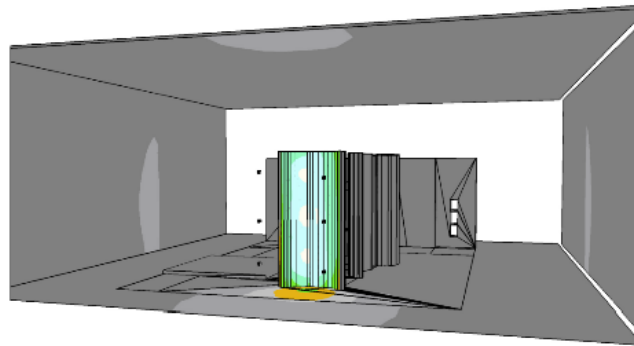


Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 29 cd/m²

- Dan
- Ev

Conclusions

- *reduce glare*
- *uniformity according to the standards*
- *illuminance required is covered*





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