

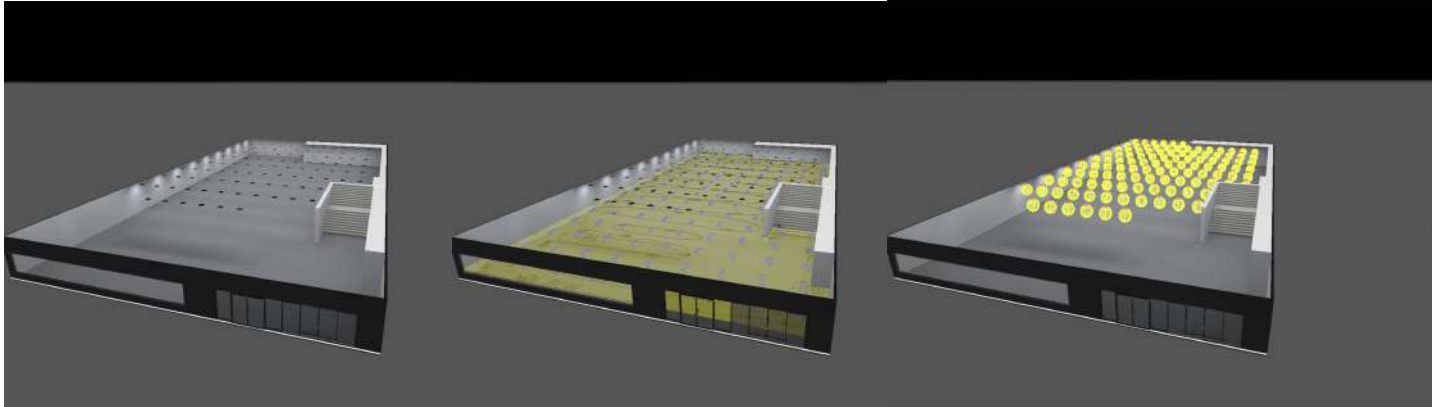


**DIALux  
Study**

**UAE Super Market**  
*General Lighting Study*

Lighting Study in Super Market Application

SUPER MARKET - GROUND FLOOR



Height of room: 4.000 m, Reflection factors: Ceiling 70.0%, Walls 50.0%, Floor 20.0%, Light loss factor: 0.80

Workplane

Surface	Result	Average (Target)	Min	Max	Min/average	Min/max
1 Workplane 1	Perpendicular illuminance (adaptive) [lx] Height: 0.800 m, Wall zone: 0.000 m	370 (≥ 300)	101	481	0.27	0.21

#	Luminaire	Φ(Luminaire) [lm]	Power [W]	Luminous efficacy [lm/W]
112	LED Panel Light 54W	5480	52.5	104.3
Total via all luminaires		613760	5880.0	104.4

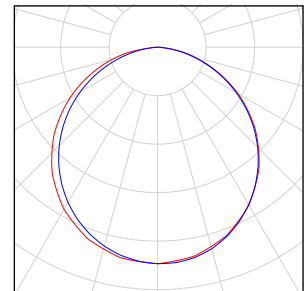
Lighting power density: 3.08 W/m<sup>2</sup> (Floor area of room 1907.04 m<sup>2</sup>)

Consumption: 16400 - 21200 kWh/a of maximum 66750 kWh/a

Quantity Luminaire (Luminous emittance)

112 LED Panel Light 54W  
 Luminous emittance 1  
 Fitting: 1xLED Panel Light 54W  
 Light output ratio: 100.05%  
 Lamp luminous flux: 5477 lm  
 Luminaire luminous flux: 5480 lm  
 Power: 52.5 W  
 Luminous efficacy: 104.3 lm/W

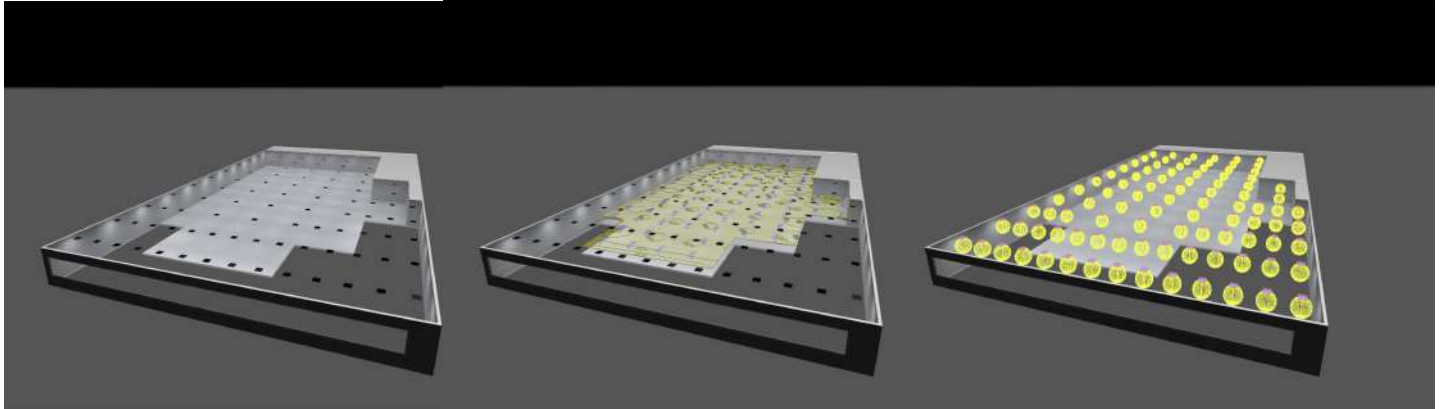
Colorimetric data  
 1xLED Panel Light 54W: CCT 4000 K, CRI 80



Total lamp luminous flux: 1133739 lm, Total luminaire luminous flux: 1134360 lm, Total Load: 10867.5 W, Luminous efficacy: 104.4 lm/W

Lighting Study in Super Market Application

SUPER MARKET - MEZZANINE FLOOR



Height of room: 3.500 m, Reflection factors: Ceiling 70.0%, Walls 50.0%, Floor 70.0%, Light loss factor: 0.80

Workplane

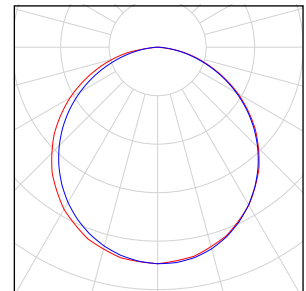
Surface	Result	Average (Target)	Min	Max	Min/average	Min/max
1 Workplane 2	Perpendicular illuminance (adaptive) [lx] Height: 0.800 m, Wall zone: 0.000 m	338 (≥ 300)	137	538	0.41	0.25

#	Luminaire	Φ(Luminaire) [lm]	Power [W]	Luminous efficacy [lm/W]
95	LED Panel Light 54W	5480	52.5	104.3
	Total via all luminaires	520600	4987.5	104.4

Lighting power density: 2.62 W/m<sup>2</sup> (Floor area of room 1907.04 m<sup>2</sup>)

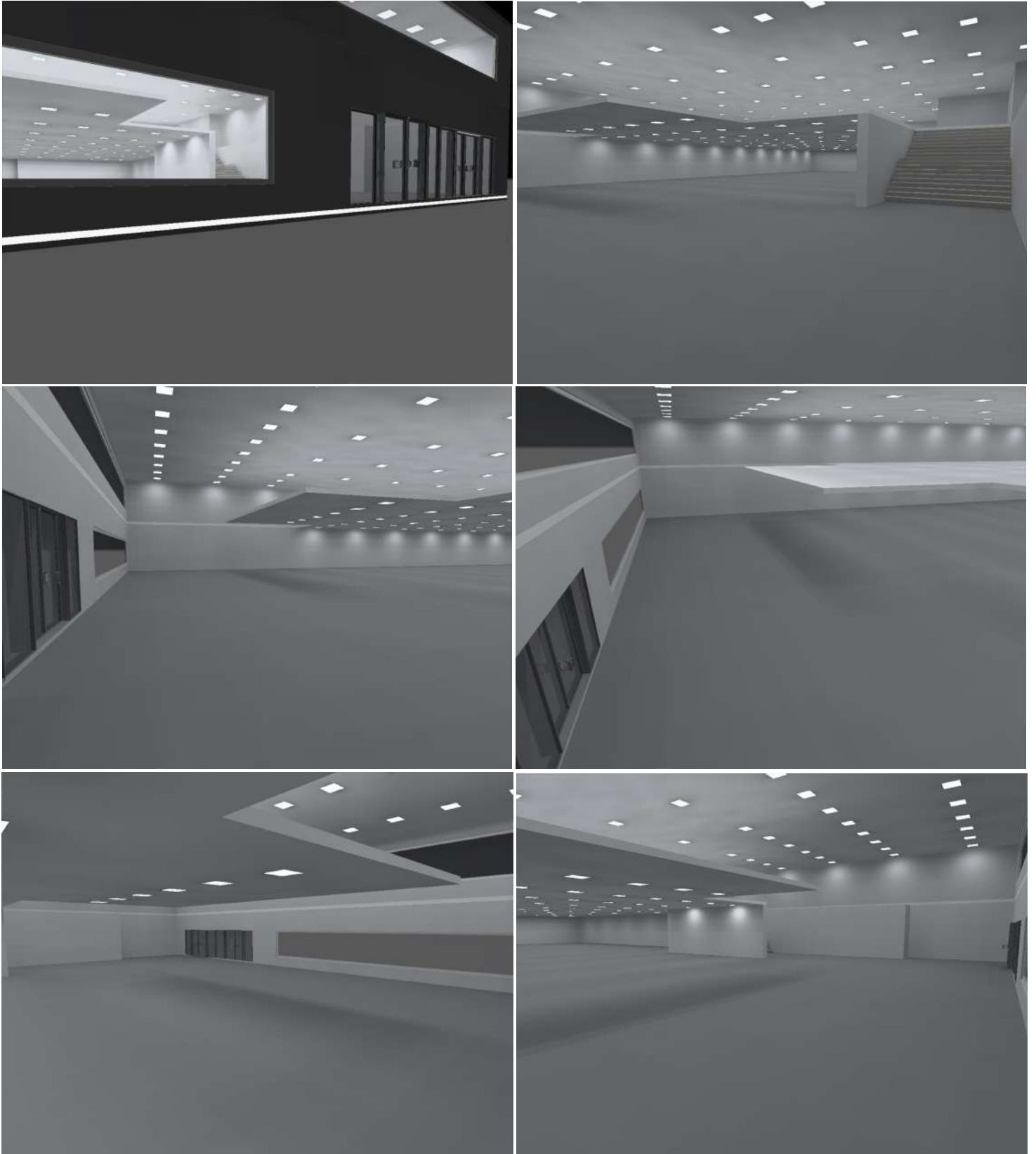
Consumption: 12000 - 17950 kWh/a of maximum 66750 kWh/a

Quantity	Luminaire (Luminous emittance)
95	LED Panel Light 54W Luminous emittance 1 Fitting: 1xLED Panel Light 54W Light output ratio: 100.05% Lamp luminous flux: 5477 lm Luminaire luminous flux: 5480 lm Power: 52.5 W Luminous efficacy: 104.3 lm/W  Colorimetric data 1xLED Panel Light 54W: CCT 4000 K, CRI 80



Total lamp luminous flux: 520315 lm, Total luminaire luminous flux: 520600 lm, Total Load: 4987.5 W, Luminous efficacy: 104.4 lm/W

SUPER MARKET - GENERAL VIEWS





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