

السوق النموذجي للخضار والفاكهة



Elevation Option 1

Handwritten signature or mark.

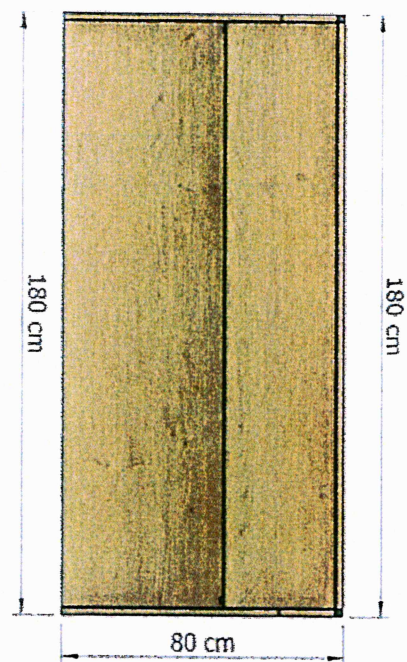
السوق النموذجي للخضار والفاكهة



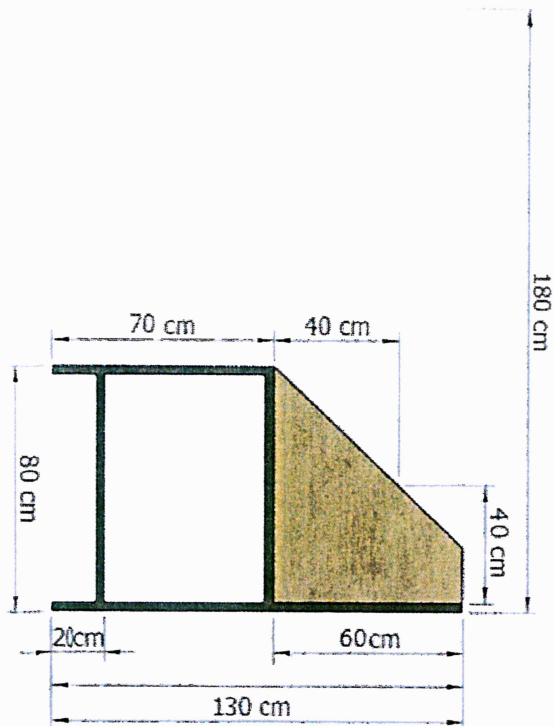
Elevation Option 2



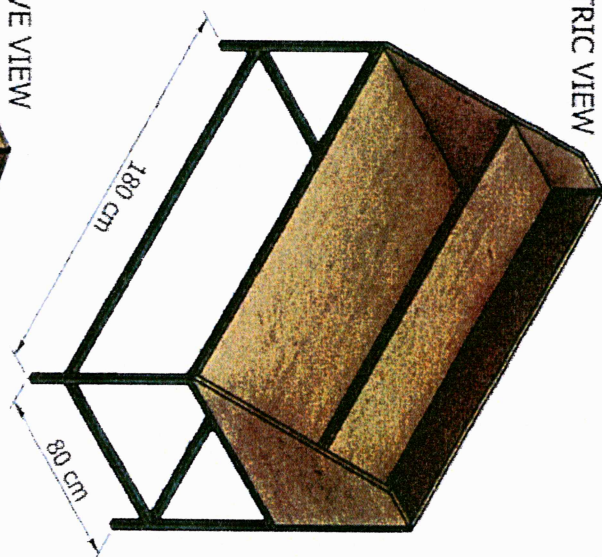
TOP VIEW



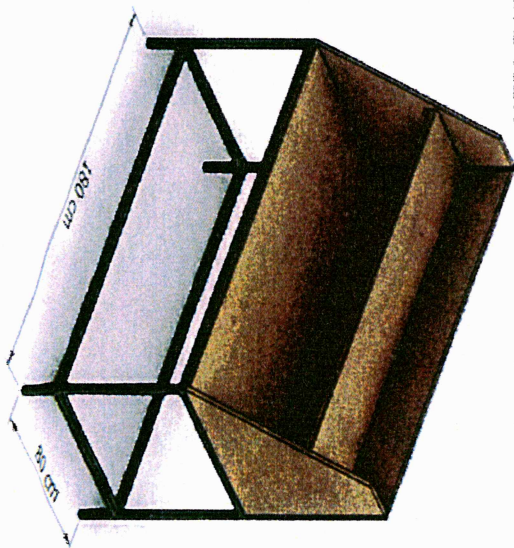
SIDE VIEW



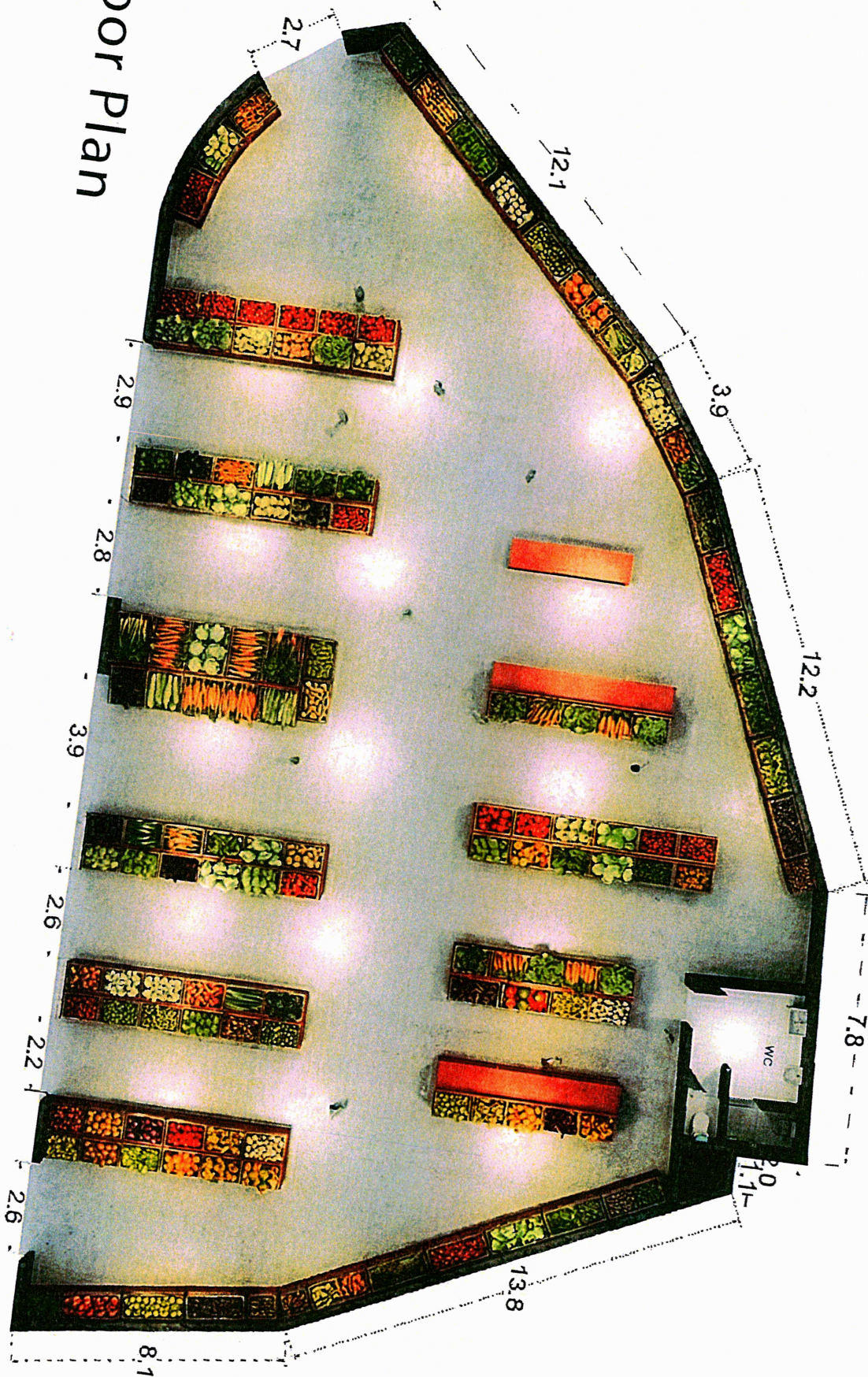
AXONOMETRIC VIEW

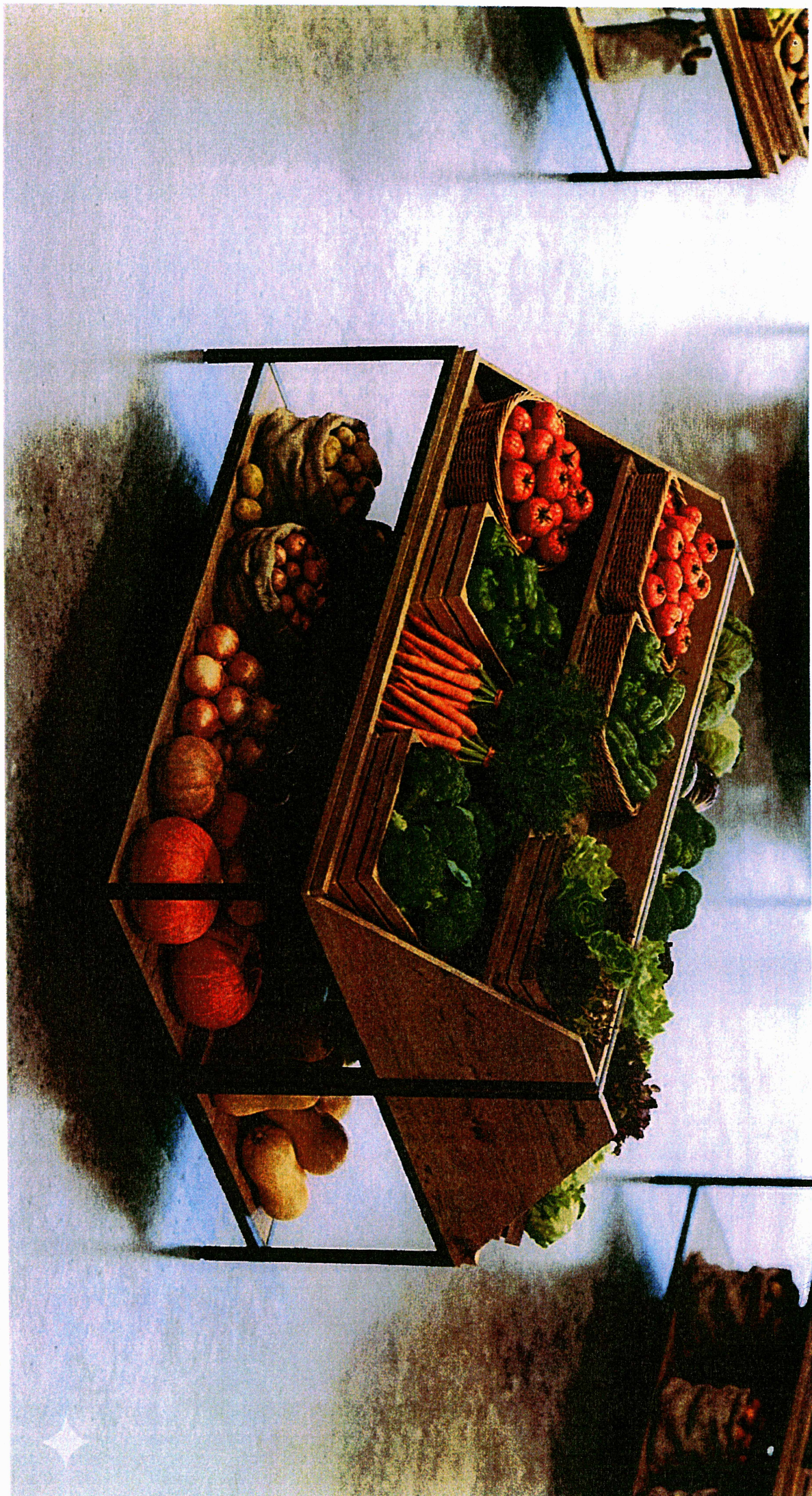


PERSPECTIVE VIEW



Floor Plan







السوق النموذجي للخضار والفاكهة



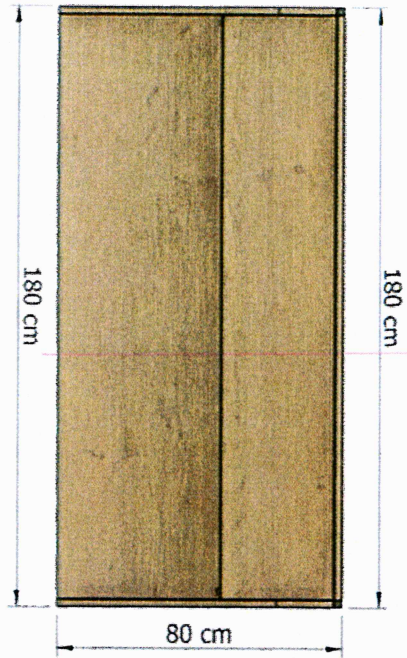
Elevation Option 1



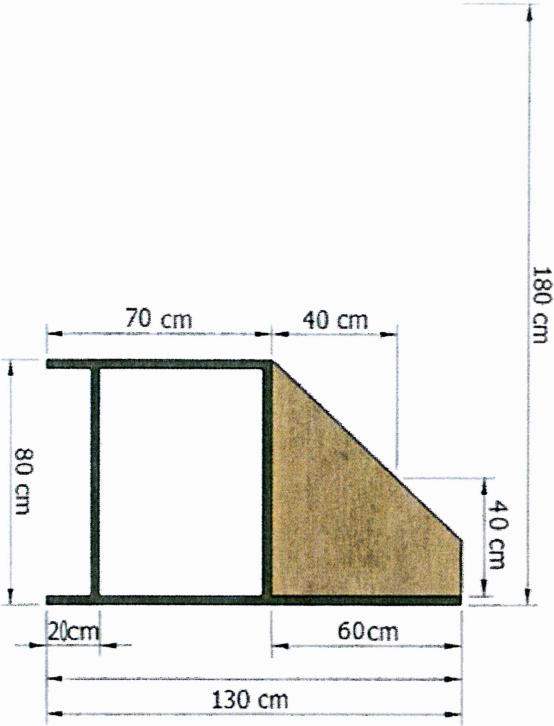
السوق النموذجي للخضار والفاكهة

Elevation Option 2

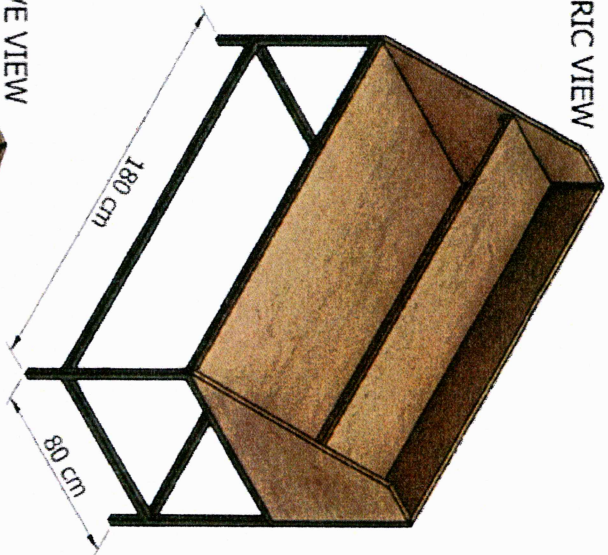
TOP VIEW



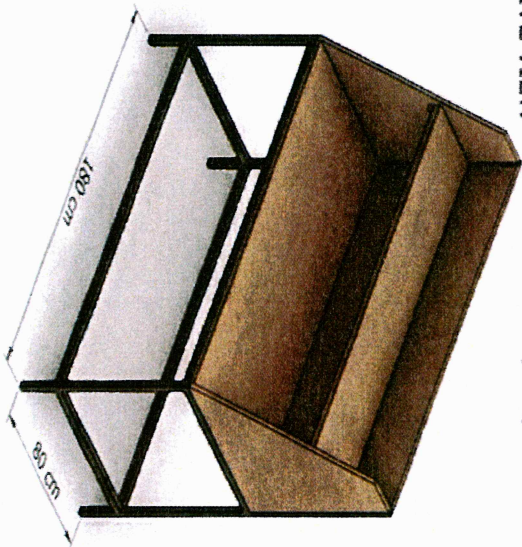
SIDE VIEW



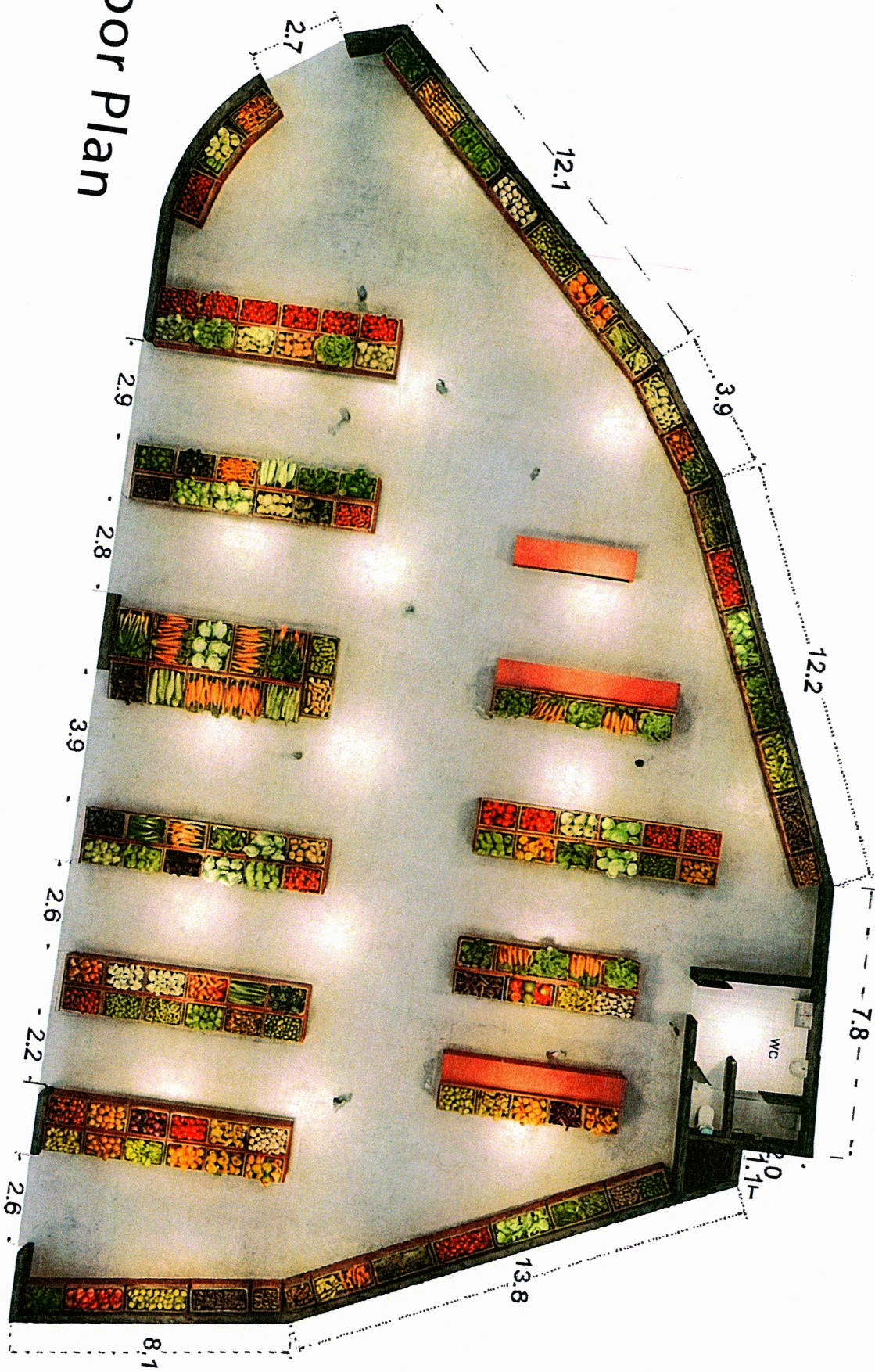
AXONOMETRIC VIEW



PERSPECTIVE VIEW

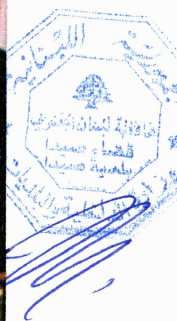


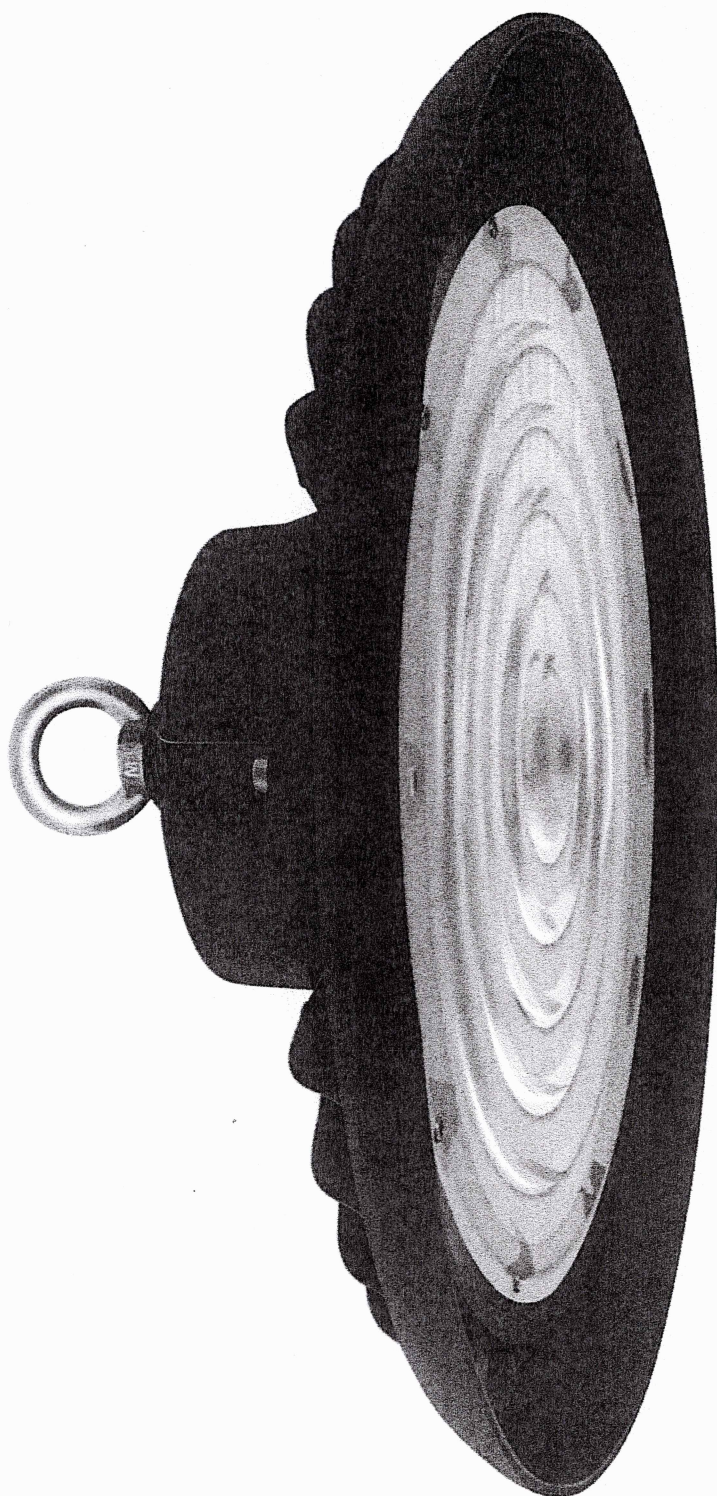
Floor Plan





Handwritten signature in blue ink.

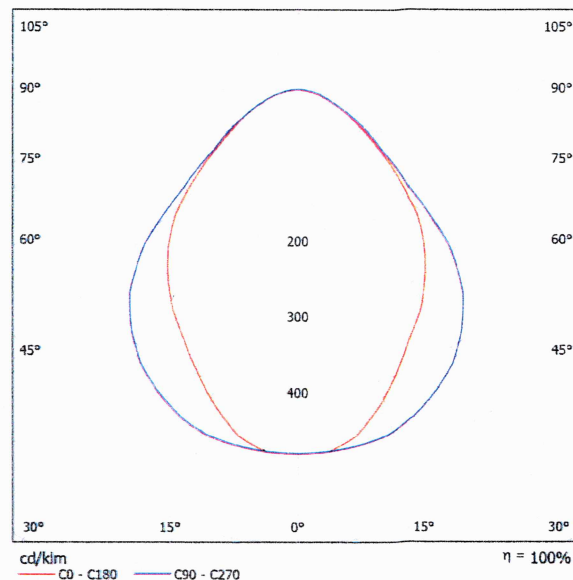
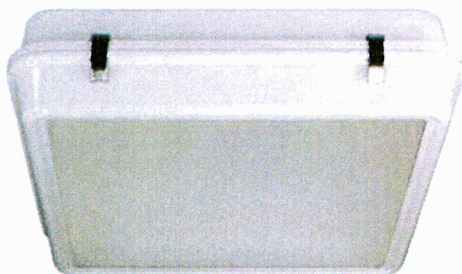




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3FFILIPPI 56344 3F CUB LED 100W CR SP / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 60 88 98 100 100

ILLUMINOTECHNICAL CHARACTERISTICS

Luminous efficiency 100% (DLOR 100%, ULOR 0%).

Initial luminous flux of the luminaire 14098 lm.

Symmetric wide direct distribution.

Installation interdistance Transv.D = 1.05 x hu - Long.D = 1.27 x hu.

UGR <22 (EN 12464-1).

Luminous efficacy 131 lm/W.

Lifetime (L90/B10): 30000 h. (tq+25°C)

Lifetime (L85/B10): 50000 h. (tq+25°C)

Lifetime (L80/B20): 80000 h. (tq+25°C)

Lifetime (L70/B20): 100000 h. (tq+25°C)

Lifetime (L70/B10): 50000 h. (tq+45°C)

Sudden decreased luminous flux after 50000 hours: 0% (C0).

Photobiological safety in compliance with IEC/TR 62778: RG0 risk exempt, (IEC 62471).

In compliance with IEC/EN 62722-2-1 - IEC/EN 62717 standards.

SOURCE

4 linear LED modules 25W/840.

Energy efficiency class: C.

CIE 13.3 Colour rendering index: CRI >80 (R9 <50%).

IES TM-30 Fidelity Index: Rf = 84 Rg = 95.

CCT nominal colour temperature 4000 K.

Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL CHARACTERISTICS

Housing with double casing in pressed aluminium, powder-coated in white epoxy-polyester, hinged opening.

Quick connection in polycarbonate M20x1.5 cable gland for access to the terminal block.

Ecologic anti-aging injected sealing gasket.

Stainless steel clips.

Total flow recuperator in specular aluminium, with superficial titanium-magnesium treatment, non-iridescent.

Prismatic flat diffuser in multilenticular PMMA, anti-glare, prismatic outer surface, does not yellow or age.

Fixing bracket for busbar or suspension in galvanised steel.

Luminaire with limited surface temperature. - D - (EN 60598-2-24)

Dimensions: 680x680 mm, height 187 mm. Weight 9.025 kg.

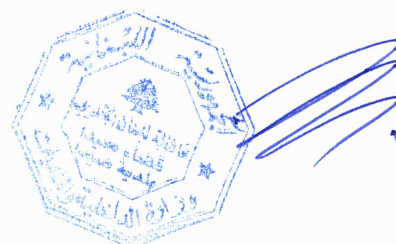
IP64 protection degree.

Mechanical strength to impacts IK08 (5 joule).

Glow-wire test resistance 650°C.

Luminous emittance 1:

Glare Evaluation According to UGR													
Room Size		70	70	50	50	30	70	70	50	50	30		
X		50	30	50	30	30	50	30	50	30	30		
Y		20	20	20	20	20	20	20	20	20	20		
Viewing direction at right angles to lamp axis								Viewing direction parallel to lamp axis					
2H	2H	19.0	20.2	19.3	20.4	20.6	19.3	20.5	19.6	20.7	20.9		
	3H	20.1	21.2	20.4	21.4	21.7	20.4	21.4	20.7	21.7	21.9		
	4H	20.6	21.5	20.9	21.8	22.1	20.8	21.8	21.1	22.1	22.3		
	6H	21.0	21.8	21.3	22.1	22.4	21.2	22.1	21.5	22.4	22.7		
	8H	21.1	21.9	21.4	22.2	22.6	21.3	22.2	21.7	22.5	22.8		
	12H	21.2	22.0	21.5	22.3	22.6	21.4	22.2	21.7	22.5	22.8		
4H	2H	19.3	20.3	19.6	20.5	20.8	19.6	20.5	19.9	20.8	21.1		
	3H	20.6	21.4	20.9	21.7	22.0	20.7	21.6	21.1	21.9	22.2		
	4H	21.1	21.9	21.5	22.2	22.6	21.3	22.1	21.7	22.4	22.8		
	6H	21.7	22.3	22.1	22.7	23.1	21.9	22.5	22.3	22.9	23.3		
	8H	21.9	22.5	22.3	22.8	23.3	22.1	22.7	22.5	23.1	23.5		
	12H	22.0	22.5	22.5	22.9	23.4	22.2	22.8	22.7	23.2	23.6		
8H	4H	21.3	21.9	21.8	22.3	22.7	21.5	22.1	21.9	22.5	22.9		
	6H	22.0	22.5	22.5	22.9	23.3	22.2	22.7	22.7	23.1	23.6		
	8H	22.3	22.7	22.8	23.1	23.6	22.5	22.9	23.0	23.4	23.8		
	12H	22.5	22.9	23.0	23.3	23.8	22.8	23.1	23.3	23.6	24.1		
12H	4H	21.4	21.9	21.8	22.3	22.7	21.5	22.0	22.0	22.4	22.9		
	6H	22.1	22.5	22.5	22.9	23.4	22.3	22.7	22.7	23.1	23.6		
	8H	22.4	22.8	22.9	23.2	23.7	22.6	23.0	23.1	23.4	23.9		
Variation of the observer position for the luminaire distances S													
S = 1.0H		+0.3 / -0.4					+0.3 / -0.5						
S = 1.5H		+0.6 / -0.9					+0.8 / -1.0						
S = 2.0H		+1.1 / -1.4					+1.7 / -1.5						
Standard table		BK04					BK03						
Correction		-4.0					-4.1						
Summand													
Corrected Glare Indices referring to 14098lm Total Luminous Flux													



ELECTRICAL CHARACTERISTICS

Halogen Free electronic wiring 230V-50/60Hz, power factor 0.95, THD <25%, constant output current, class I, 2 driver.

Twin-circuit.

Power of the luminaire 108 W.

ENEC - CE.

SAFE FLICKER: PstLM=<1 and SVM=<1 (IEC TR 61547-1 and IEC TR 63158), to ensure a more comfortable and safe light.

Luminaire compliant with EN 60598-2-22 for power supply from a centralised emergency system CPSS (Central Power Supply System), not incorporated in the luminaire - high risk areas excluded. The default power and flux are 100% in AC and 100% in DC.

Ambient temperature from -20°C to +45°C.

Temperature class T6 max 85°C.

Quick connection.

Relative humidity UR: <85%.

INSTALLATION

Ceiling / Suspended.

All accessories dedicated to this product are available on the Catalog and on our website www.3F-Filippi.com.

APPLICATIONS

Product suitable for installation in food-production/processing environments (HACCP, IFS, BRC Standard).

In commercial environments, exhibition and industrial areas, stores, open areas.

WARNING

Luminaire not suitable for refrigeration cells.

Luminaire designed for disposal/recycling at end-of-life.

Replaceable (LED only) light source by a professional. Replaceable control gear by a professional.

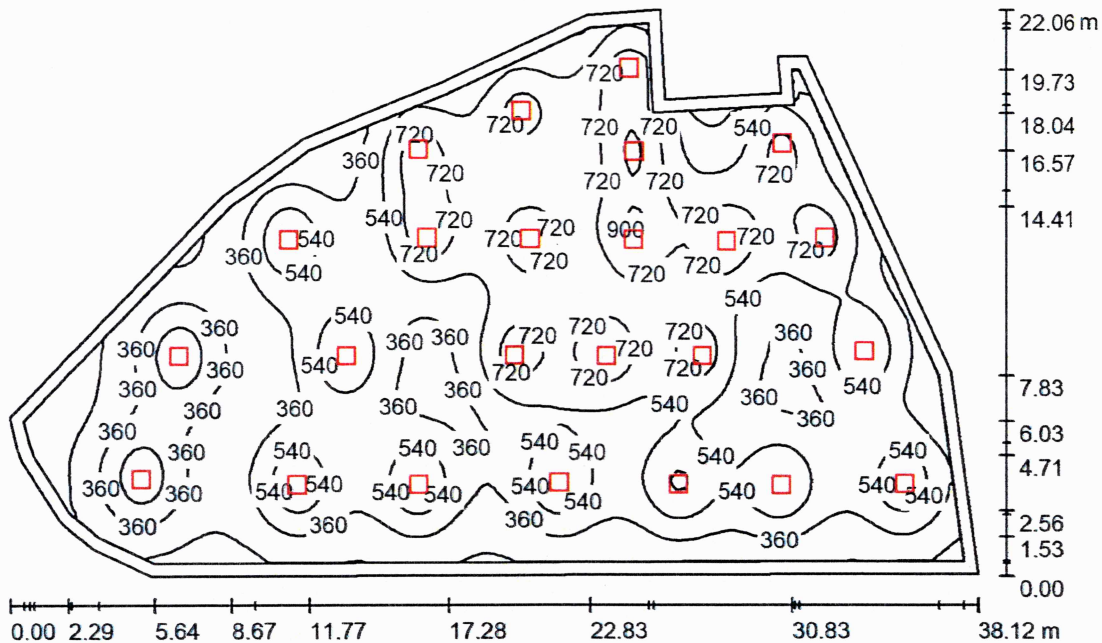
DIALux 4.13 by DIAL GmbH

Page 1



Operator
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Room 1 / Summary



Height of Room: 4.000 m, Mounting Height: 4.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:284

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	495	71	936	0.143
Floor	20	459	89	814	0.193
Ceiling	70	90	47	141	0.518
Walls (19)	50	164	51	617	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.305, Ceiling / Working Plane: 0.182.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	24	3FFILIPPI 56344 3F CUB LED 100W CR SP (1.000)	14098	14098	108.0
Total:			338353	338352	2592.0

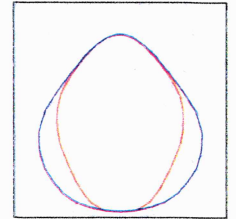
Specific connected load: $4.32 \text{ W/m}^2 = 0.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 600.16 m^2)



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Room 1 / Luminaire parts list

24 Pieces 3FFILIPPI 56344 3F CUB LED 100W CR SP
Article No.: 56344
Luminous flux (Luminaire): 14098 lm
Luminous flux (Lamps): 14098 lm
Luminaire Wattage: 108.0 W
Luminaire classification according to CIE: 100
CIE flux code: 60 88 98 100 100
Fitting: 1 x LED L - 840 (Correction Factor 1.000).



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Room 1 / Photometric Results

Total Luminous Flux: 338353 lm
Total Load: 2592.0 W
Maintenance factor: 0.80
Boundary Zone: 0.500 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	428	67	495	/	/
Floor	389	70	459	20	29
Ceiling	0.01	90	90	70	20
Wall 1	79	69	148	50	24
Wall 2	119	84	202	50	32
Wall 3	63	65	128	50	20
Wall 4	3.06	74	77	50	12
Wall 5	130	90	220	50	35
Wall 6	209	104	313	50	50
Wall 7	160	103	263	50	42
Wall 8	139	99	238	50	38
Wall 9	131	81	212	50	34
Wall 10	90	69	159	50	25
Wall 11	95	64	159	50	25
Wall 12	56	55	111	50	18
Wall 13	26	46	72	50	11
Wall 14	30	50	79	50	13
Wall 15	44	50	94	50	15
Wall 16	56	52	108	50	17
Wall 17	64	51	116	50	18
Wall 18	66	53	119	50	19
Wall 19	65	72	137	50	22

Uniformity on the working plane

u_0 : 0.143 (1:7)

E_{min} / E_{max} : 0.075 (1:13)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.305, Ceiling / Working Plane: 0.182.

Specific connected load: $4.32 \text{ W/m}^2 = 0.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 600.16 m^2)

