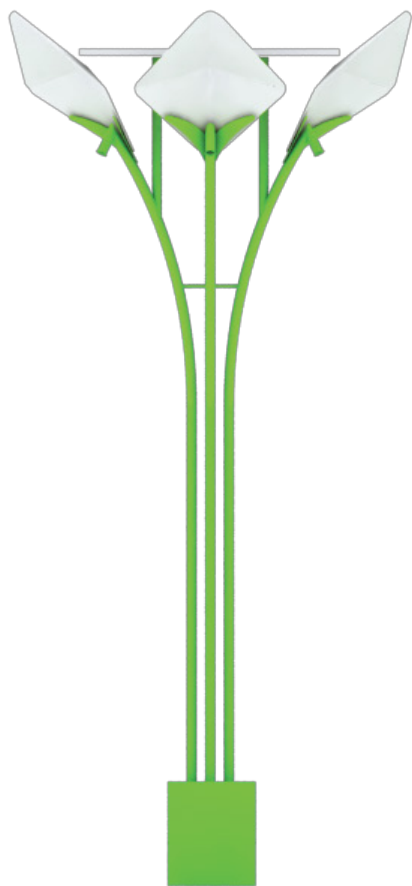


SOLAR TREE

Na3light



DESCRIPTION

Na3light is an urban luminaire that combines innovative design with the latest generation and a photovoltaic system to capture the energy needed for the system LED technology.

Consisting of "branches" which are the light through LEDs and at the top are solar panels. The maximum total load is 108W installed.

TECHNICAL SPECIFICATIONS

Series: Outdoor
Area of use: Urban-Exterior

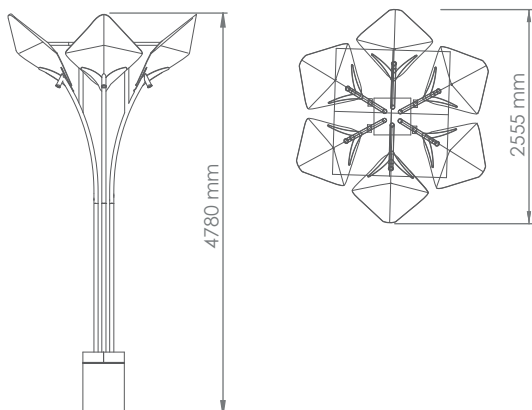
Dimensions
Height: 4.98m
Width: 2.55m

Lamps: dimmable LEDs
Power: 108W
Voltage: 120VAC (with 12V configuration option)
Color temperature: 5000K

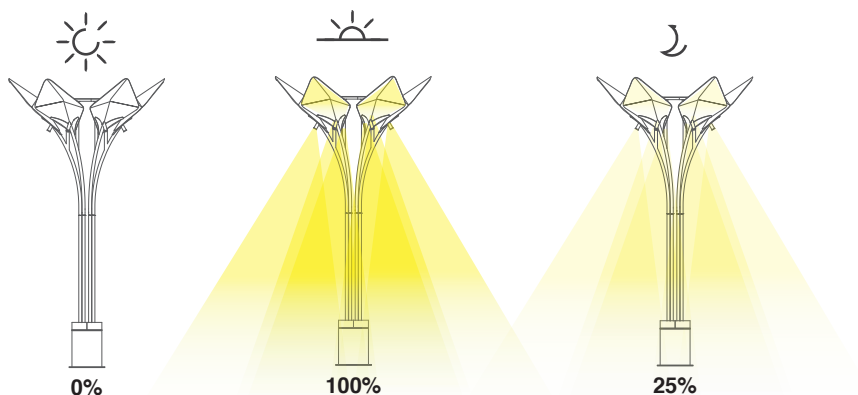
Installed solar charging: 280W

3-day autonomy

TECHNICAL DRAWINGS



DIMMABLE SYSTEM



Proyecto 1

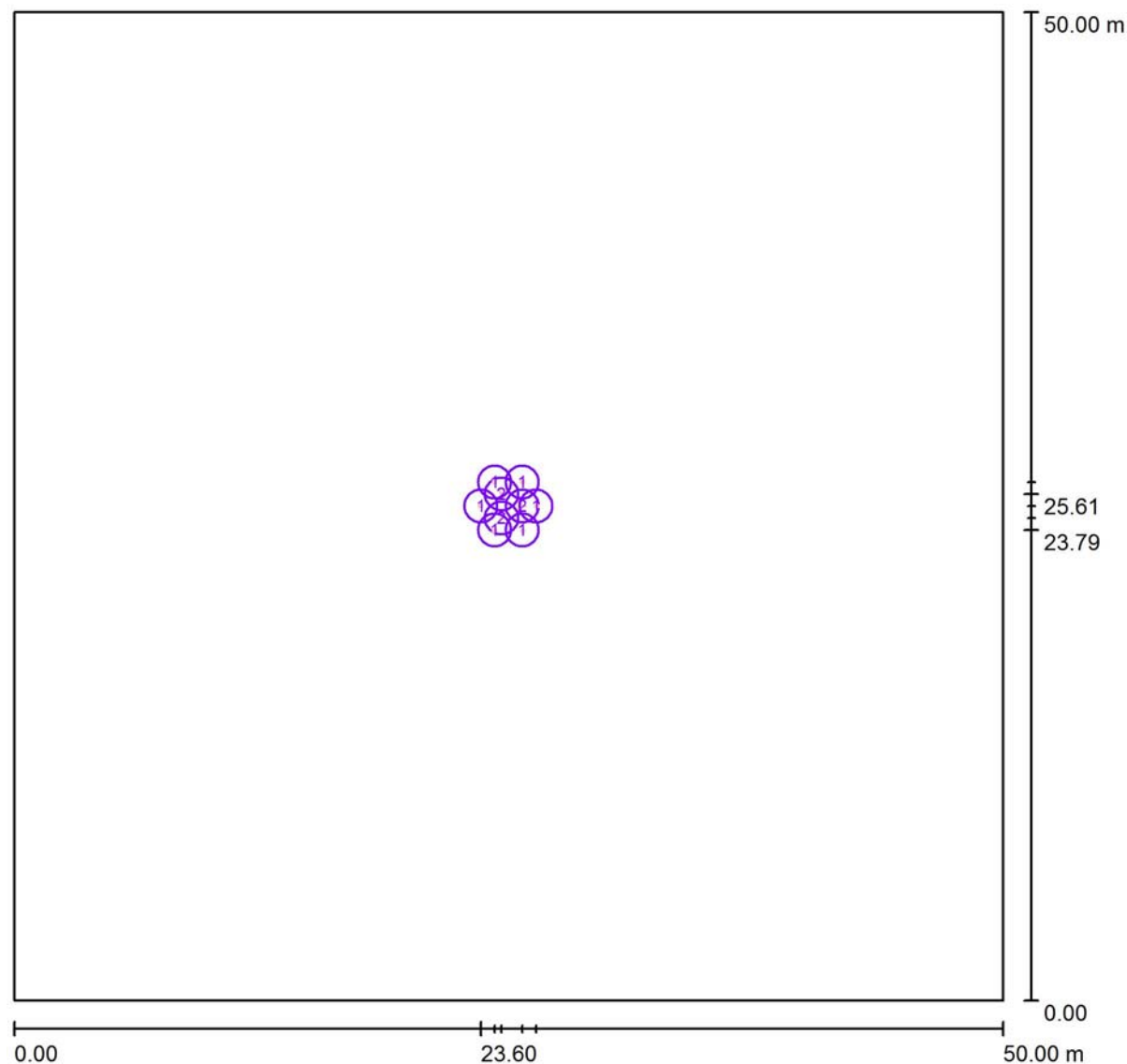
Contacto:
N° de encargo:
Empresa:
N° de cliente:

Date: 18.05.2018
Operator: Ing. Jonathan Alvarez

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Operator Ing. Jonathan Alvarez
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Fax
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Area 2500m2 / Luminaires (layout plan)



Scale 1 : 358

Luminaire Parts List

No.	Pieces	Designation	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Na3light (Type 1)* (1.000)	5478	5478	85.2

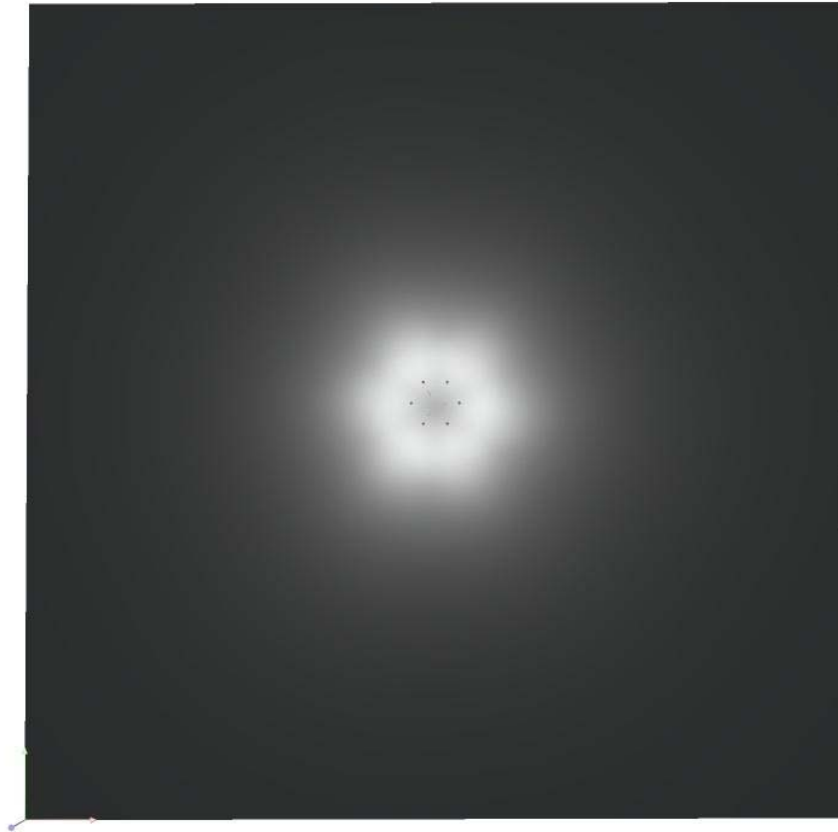
*Modified Technical Specifications

Total: 5478 Total: 5478 85.2

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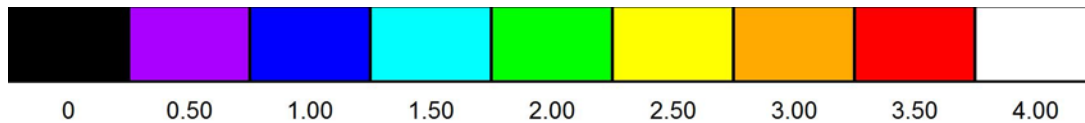
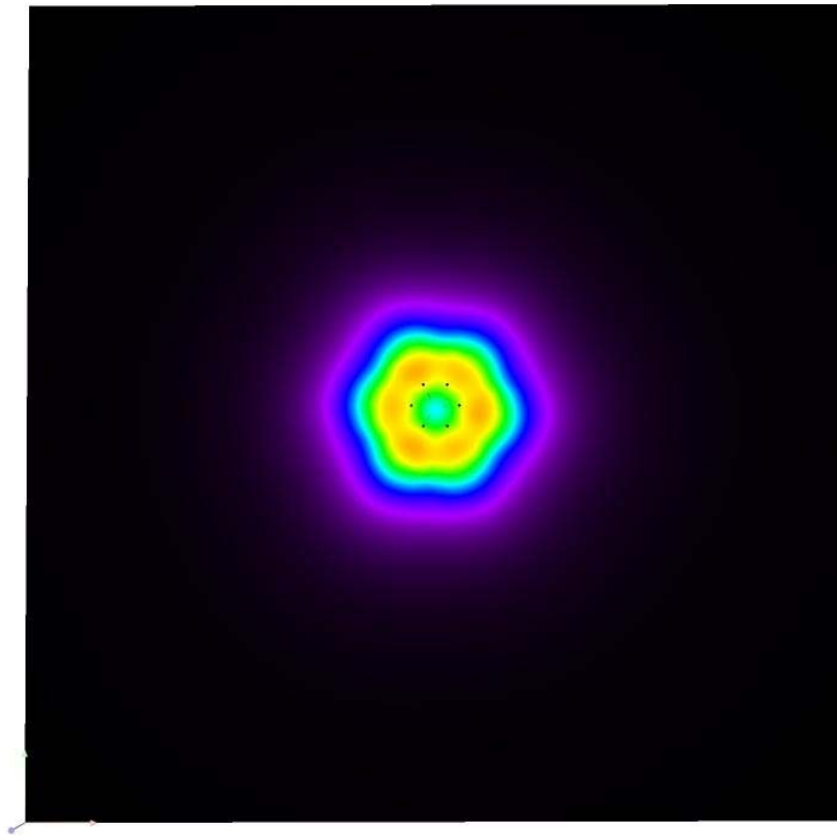
Area 2500m2 / 3D Rendering



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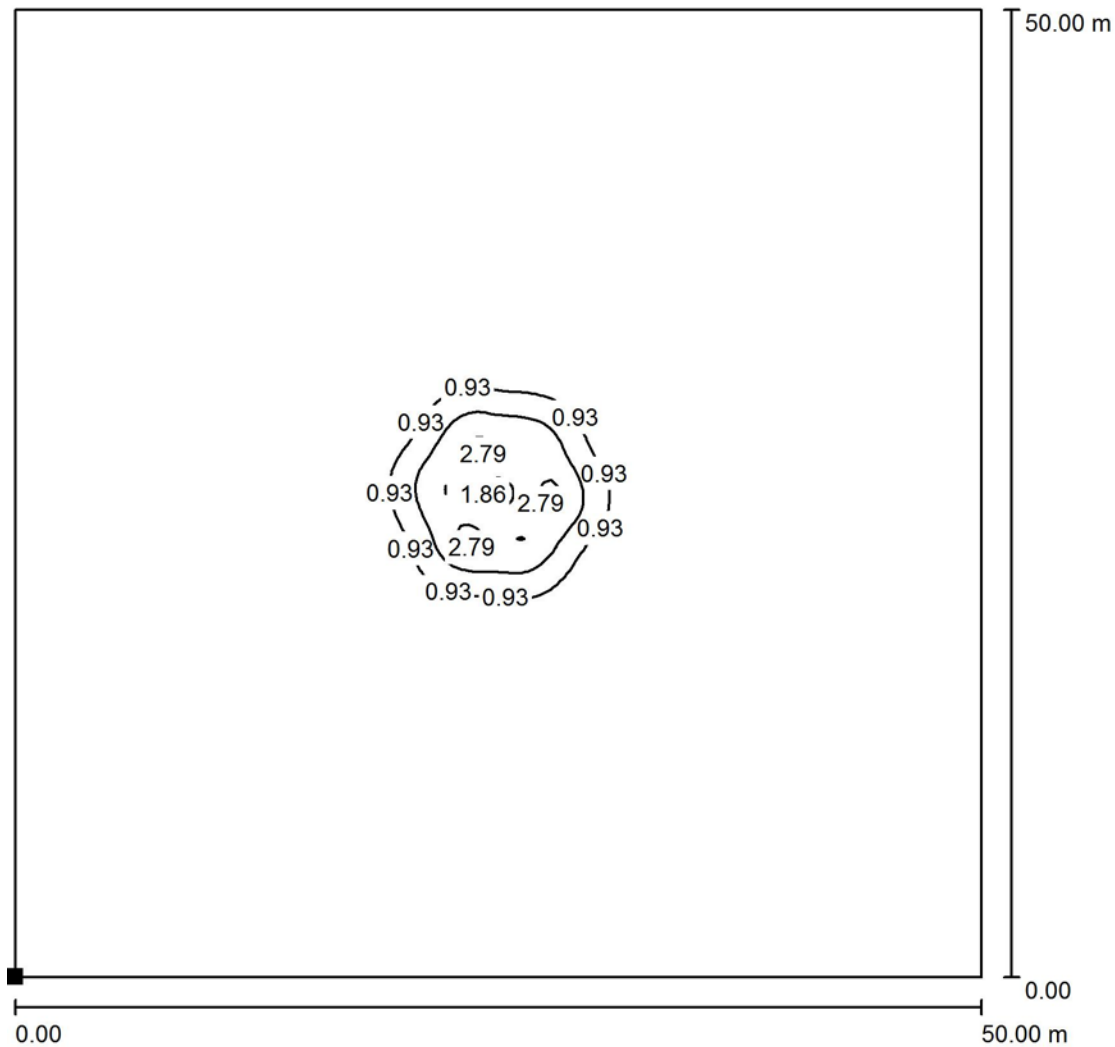
Area 2500m2 / False Color Rendering



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Area 2500m2 / Elemento del suelo 1 / Superficie 1 / Isolines (E)



Values in Footcandles, Scale 1 : 391

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



Grid: 128 x 128 Points

E_{av} [fc]
0.12

E_{min} [fc]
0.00

E_{max} [fc]
2.95

$u0$
0.019

E_{min} / E_{max}
0.001

Energetika Sustentable y Ecologica SA de CV

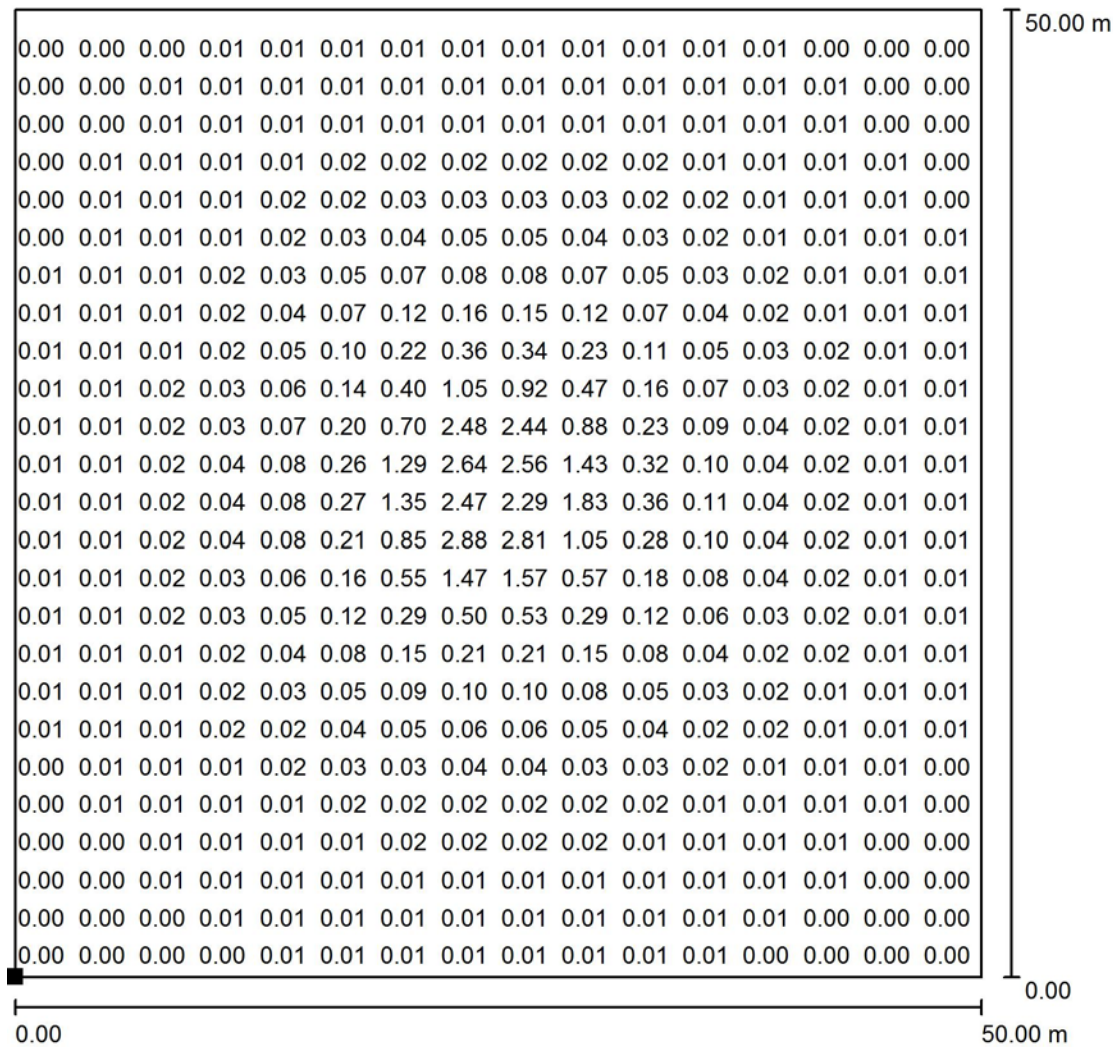
Col. Hipodromo, Cuahutemec, México D.F.

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Area 2500m2 / Elemento del suelo 1 / Superficie 1 / Value Chart (E)

Values in Footcandles, Scale 1 : 391

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
0.12

 E_{min} [fc]
0.00

 E_{max} [fc]
2.95

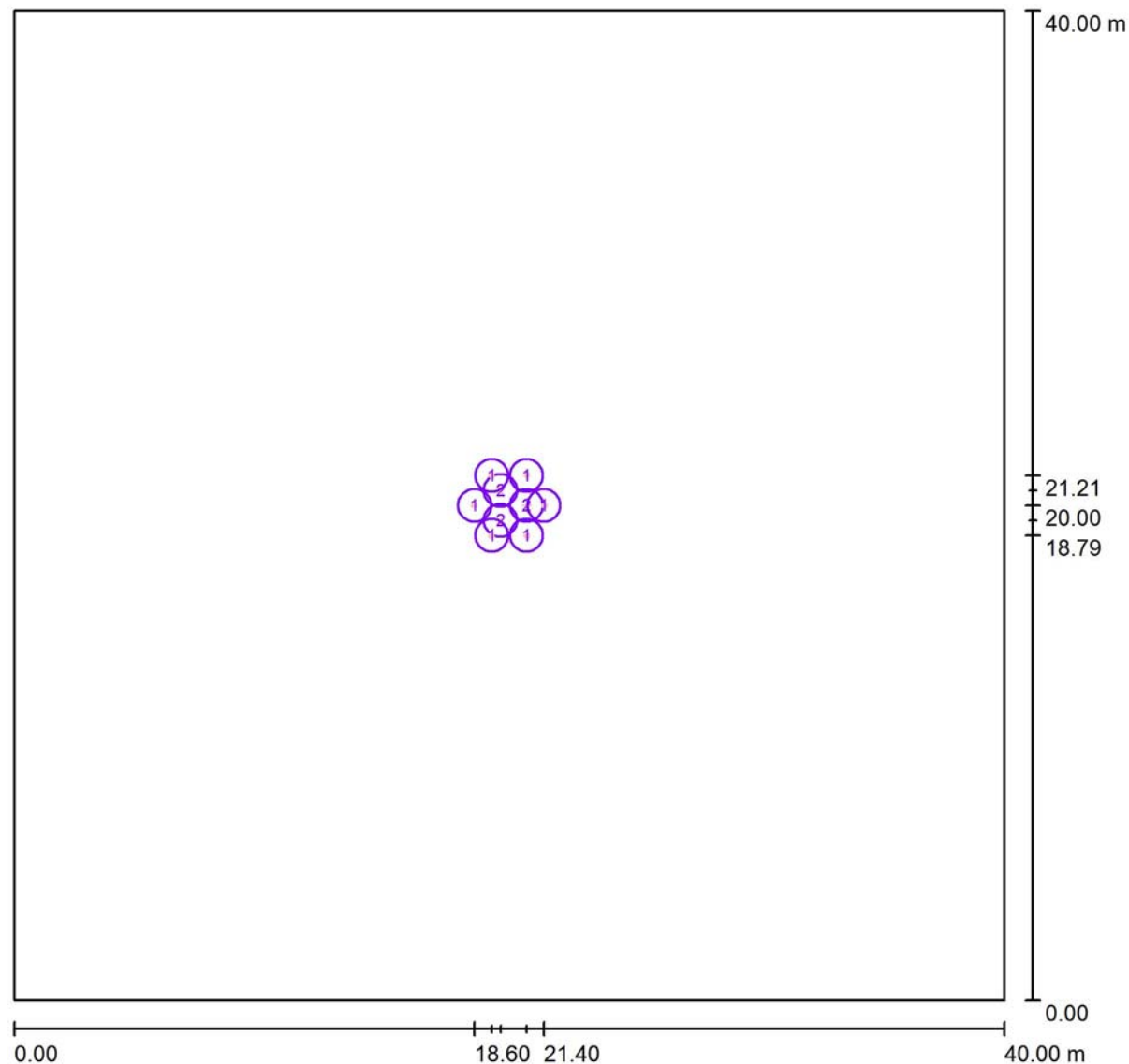
 u_0
0.019

 E_{min} / E_{max}
0.001

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Area 1600m2 / Luminaires (layout plan)



Scale 1 : 286

Luminaire Parts List

No.	Pieces	Designation	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Na3light (Type 1)* (1.000)	5478	5478	85.2

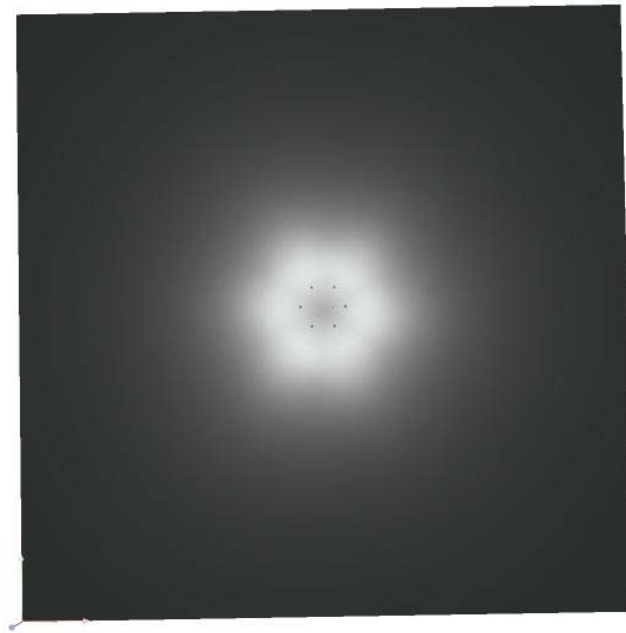
*Modified Technical Specifications

Total: 5478 Total: 5478 85.2

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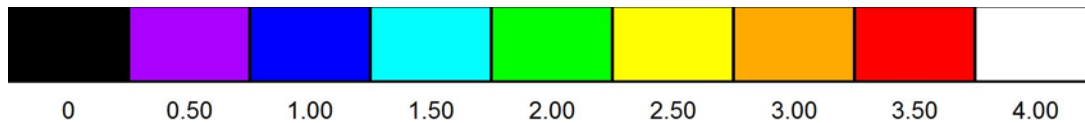
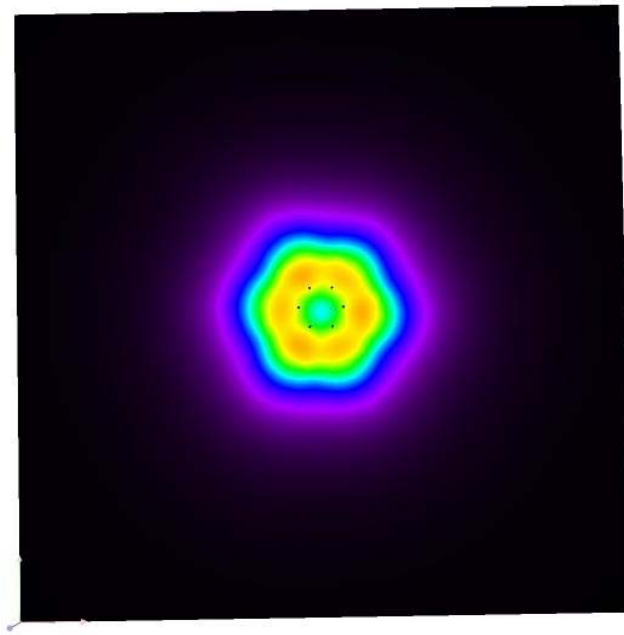
Area 1600m2 / 3D Rendering



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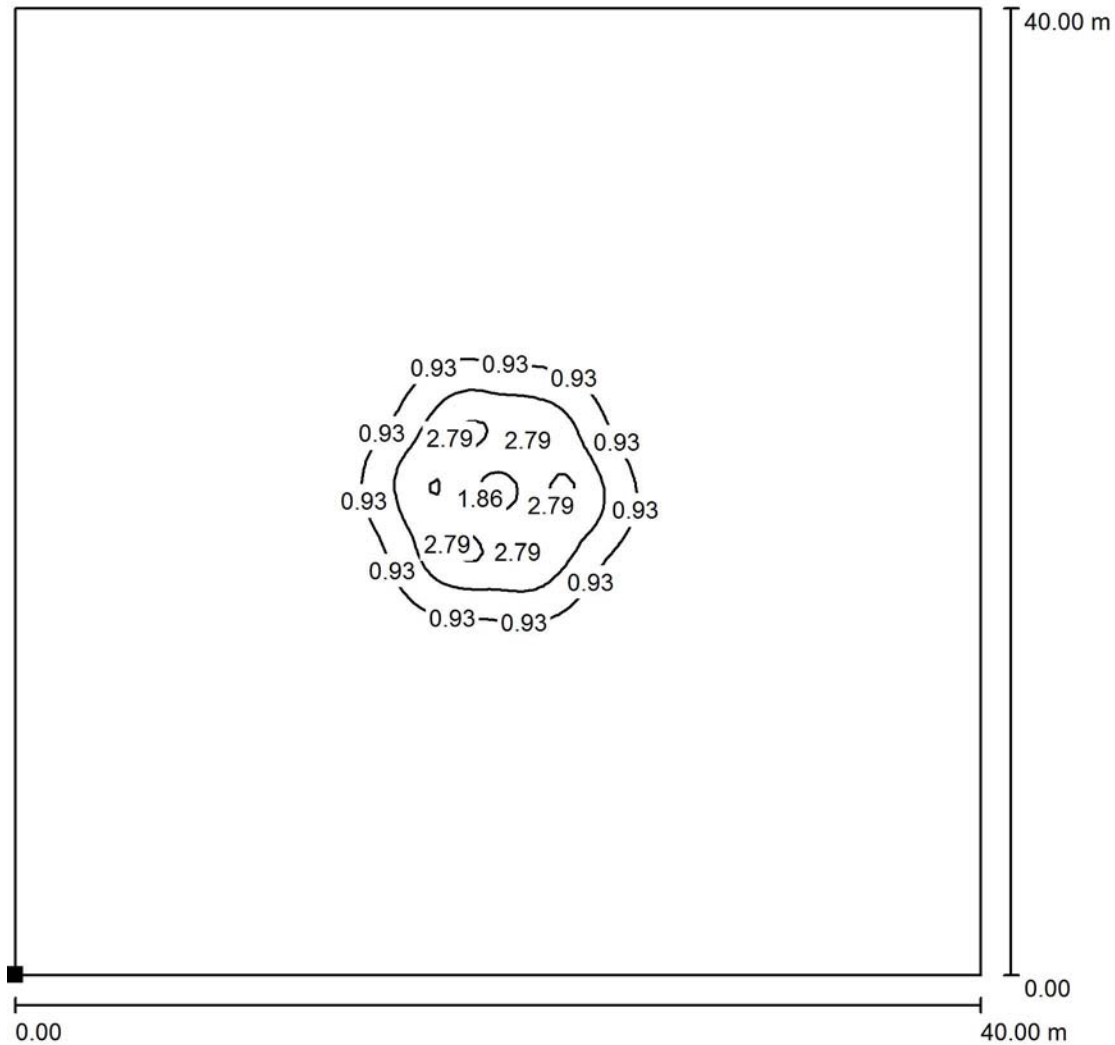
Area 1600m2 / False Color Rendering



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Area 1600m2 / Elemento del suelo 1 / Superficie 1 / Isolines (E)



Values in Footcandles, Scale 1 : 313

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



Grid: 128 x 128 Points

E_{av} [fc]	E_{min} [fc]	E_{max} [fc]	$u0$	E_{min} / E_{max}
0.19	0.00	2.97	0.024	0.002

Energetika Sustentable y Ecologica SA de CV

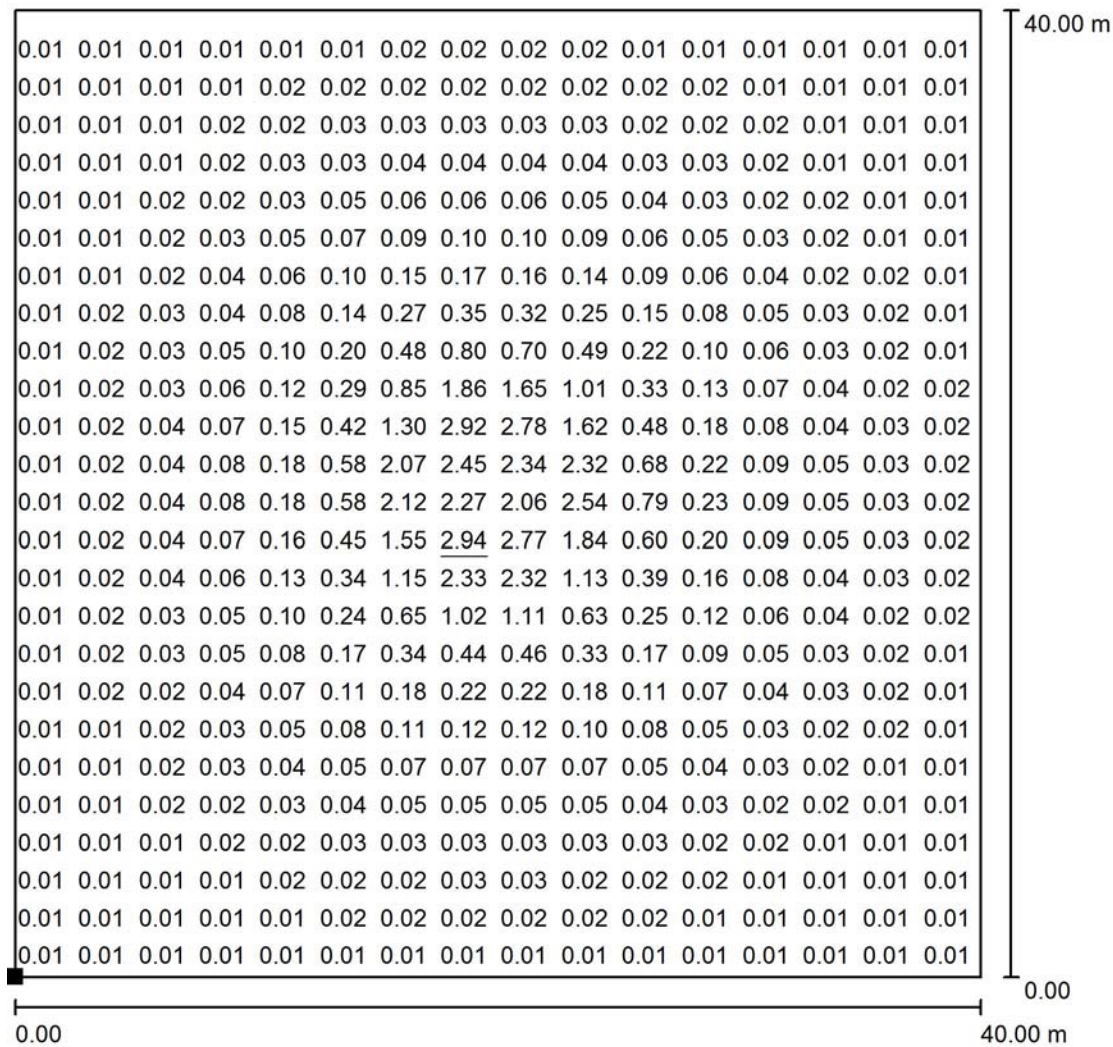
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Area 1600m2 / Elemento del suelo 1 / Superficie 1 / Value Chart (E)

Values in Footcandles, Scale 1 : 313

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
0.19

 E_{min} [fc]
0.00

 E_{max} [fc]
2.97

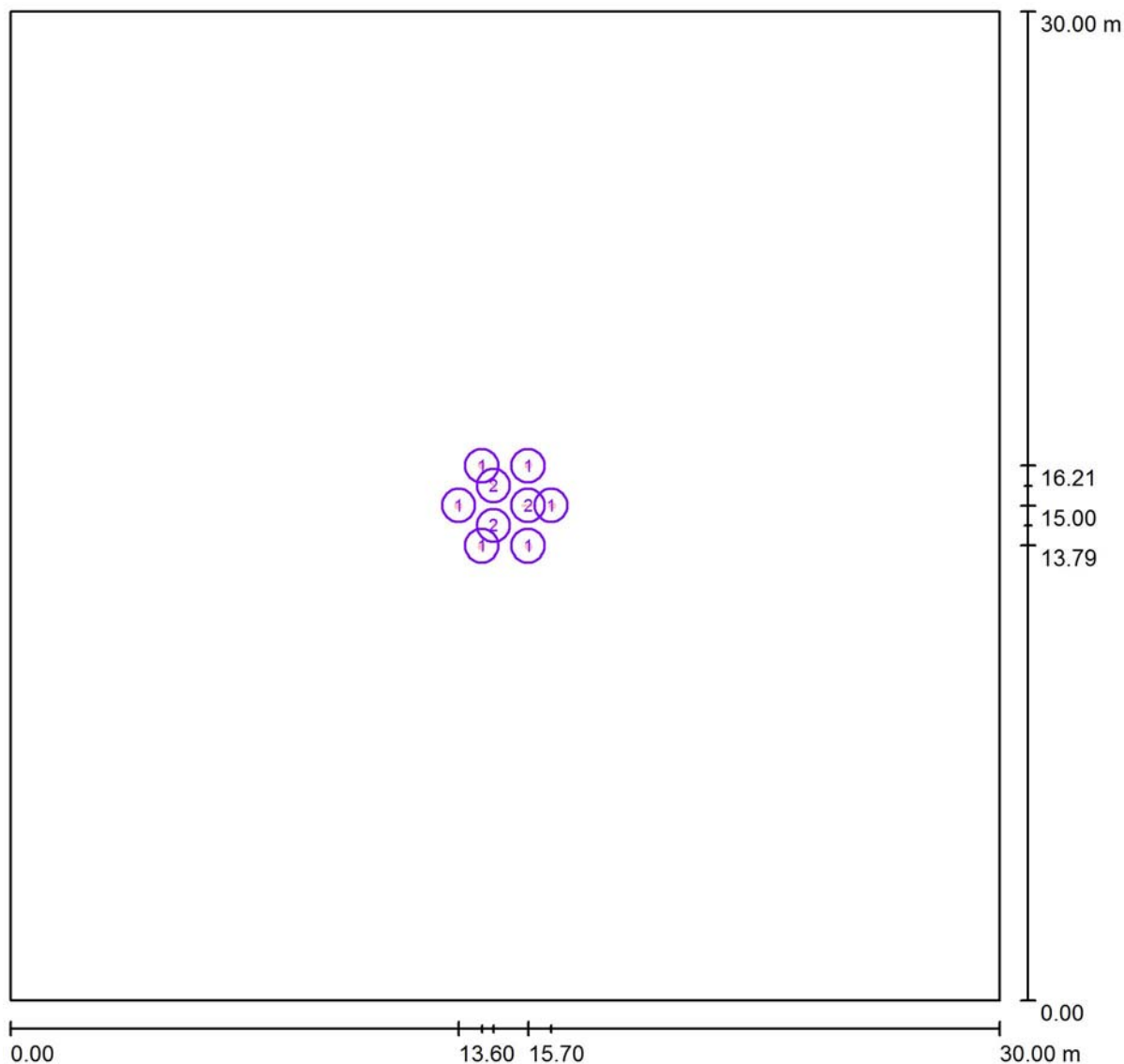
 u_0
0.024

 E_{min} / E_{max}
0.002

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Area 900m2 / Luminaires (layout plan)



Scale 1 : 215

Luminaire Parts List

No.	Pieces	Designation	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Na3light (Type 1)* (1.000)	5478	5478	85.2

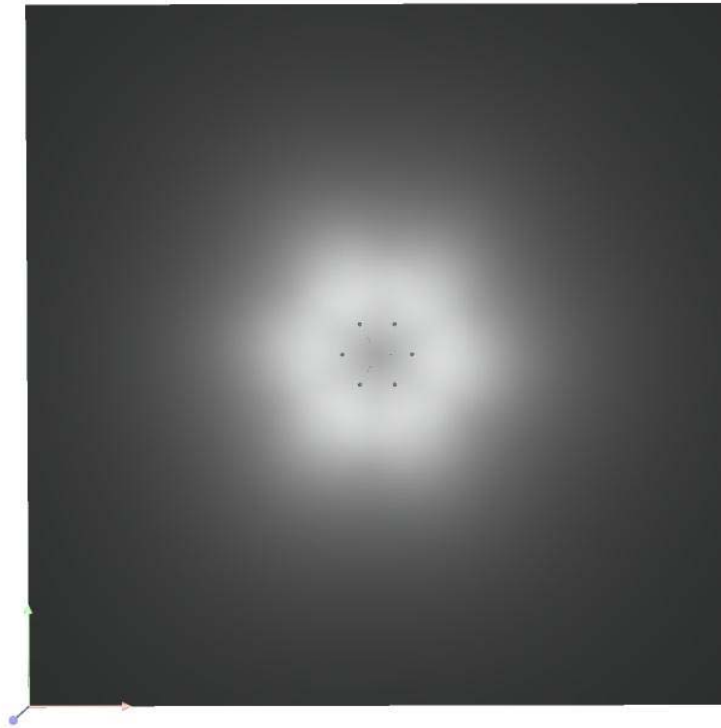
*Modified Technical Specifications

Total: 5478 Total: 5478 85.2

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Area 900m2 / 3D Rendering



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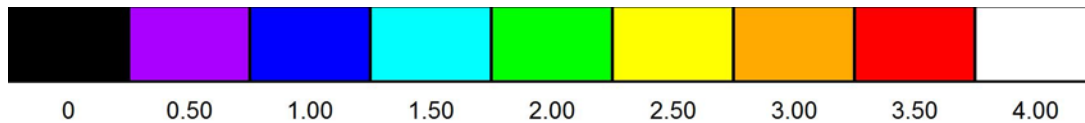
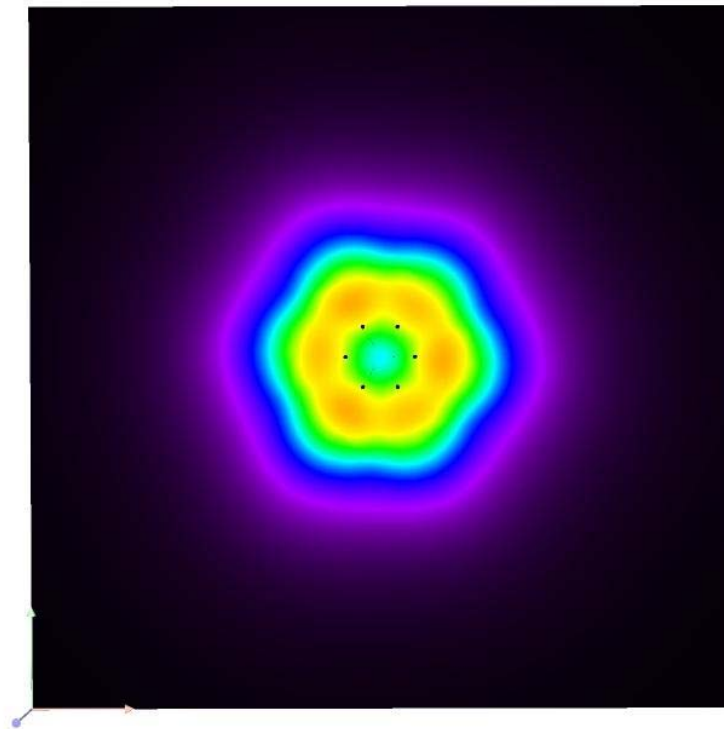
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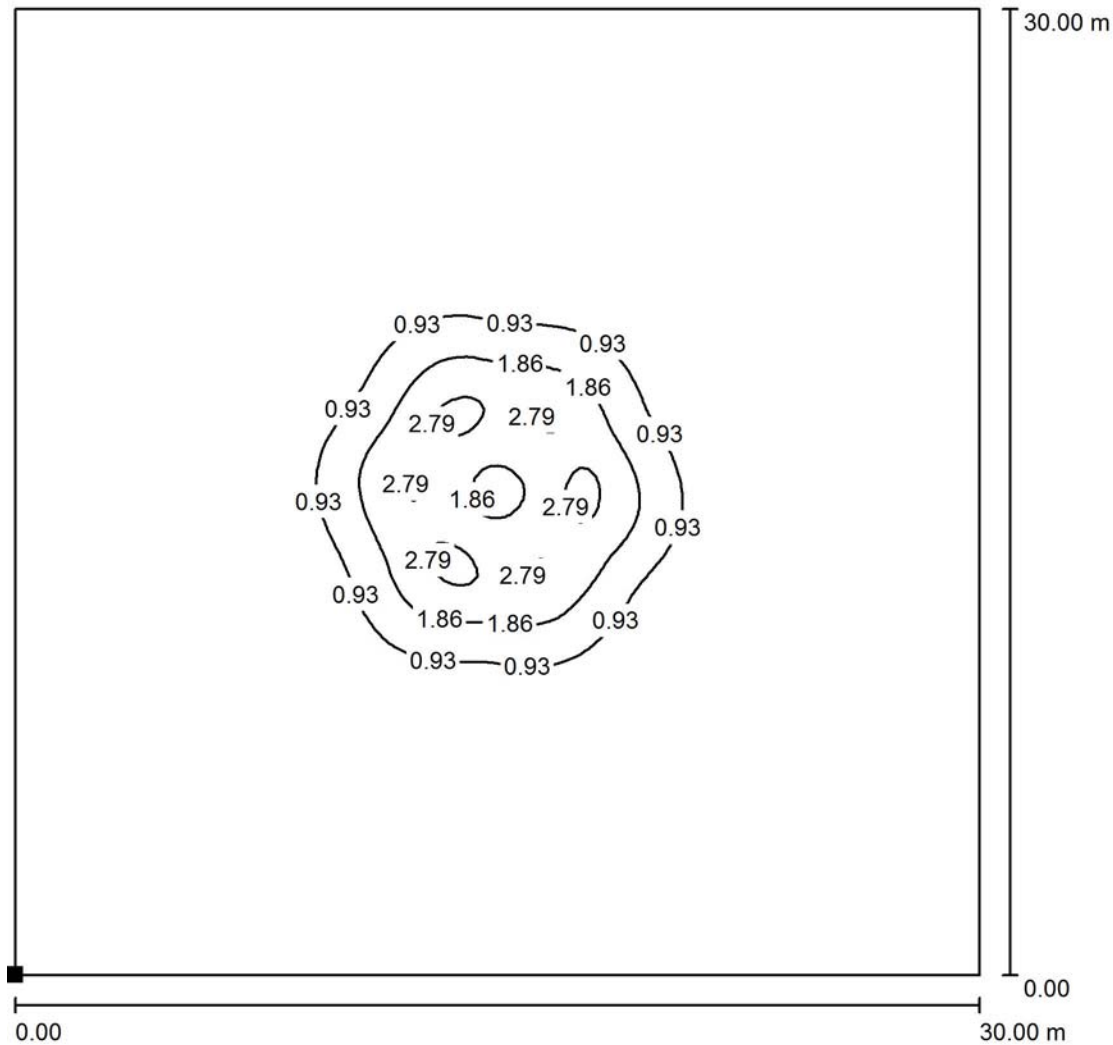
Area 900m2 / False Color Rendering



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Area 900m2 / Elemento del suelo 1 / Superficie 1 / Isolines (E)



Values in Footcandles, Scale 1 : 235

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



Grid: 128 x 128 Points

E_{av} [fc]
0.32

E_{min} [fc]
0.01

E_{max} [fc]
2.98

$u0$
0.035

E_{min} / E_{max}
0.004

Energetika Sustentable y Ecologica SA de CV

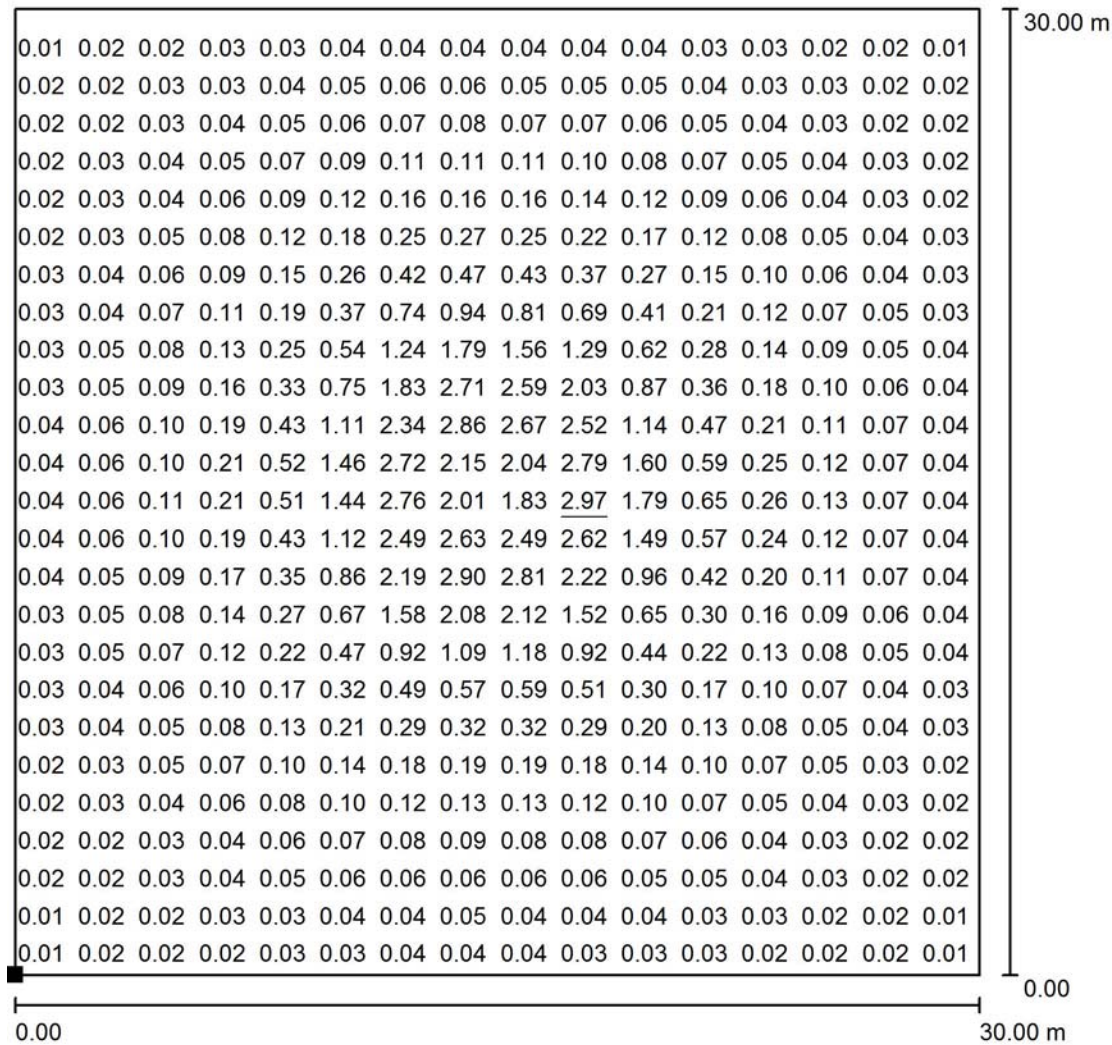
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Area 900m2 / Elemento del suelo 1 / Superficie 1 / Value Chart (E)

Values in Footcandles, Scale 1 : 235

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
0.32

 E_{min} [fc]
0.01

 E_{max} [fc]
2.98

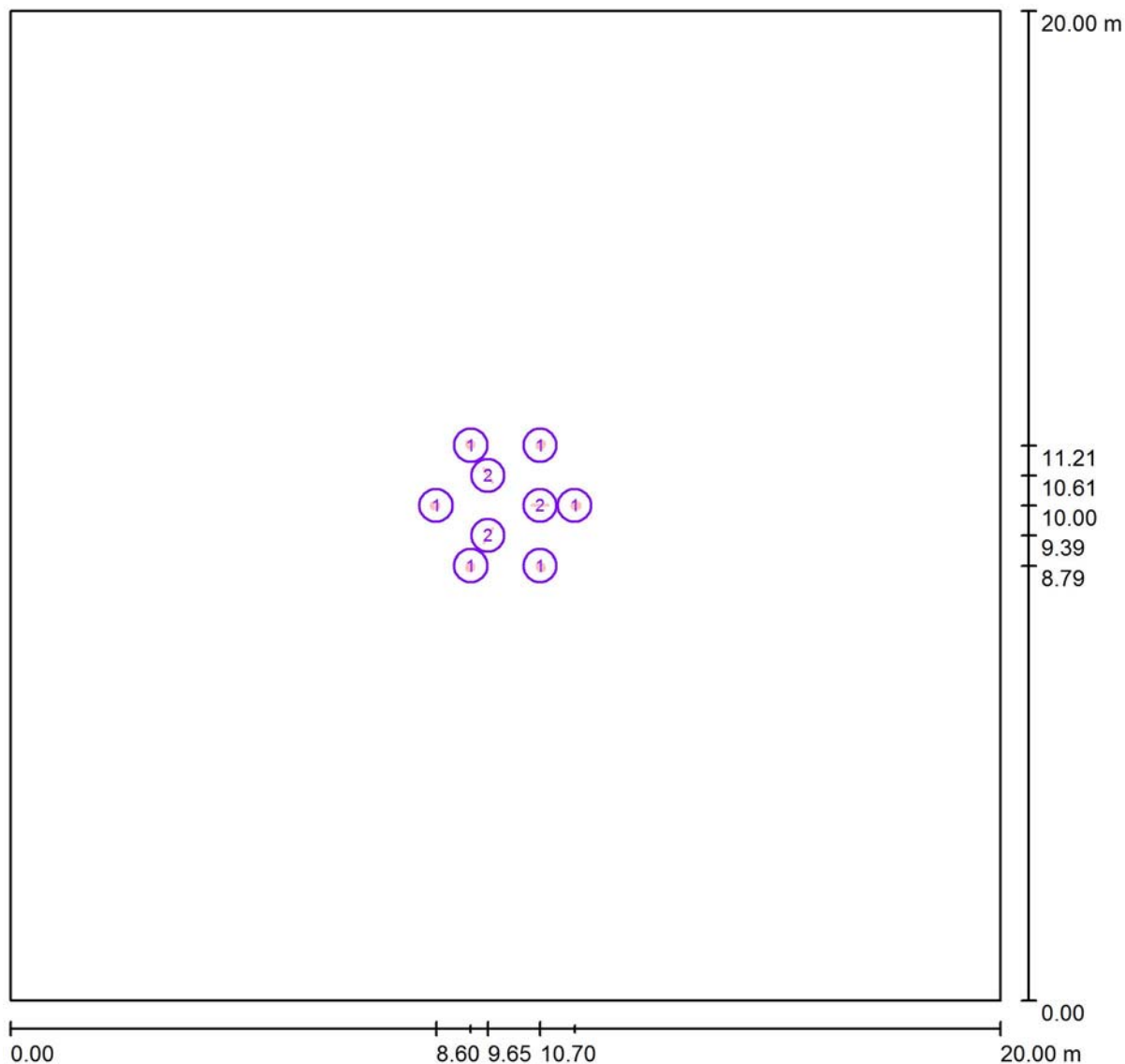
 u_0
0.035

 E_{min} / E_{max}
0.004

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Area 400m2 / Luminaires (layout plan)



Scale 1 : 143

Luminaire Parts List

No.	Pieces	Designation	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Na3light (Type 1)* (1.000)	5478	5478	85.2

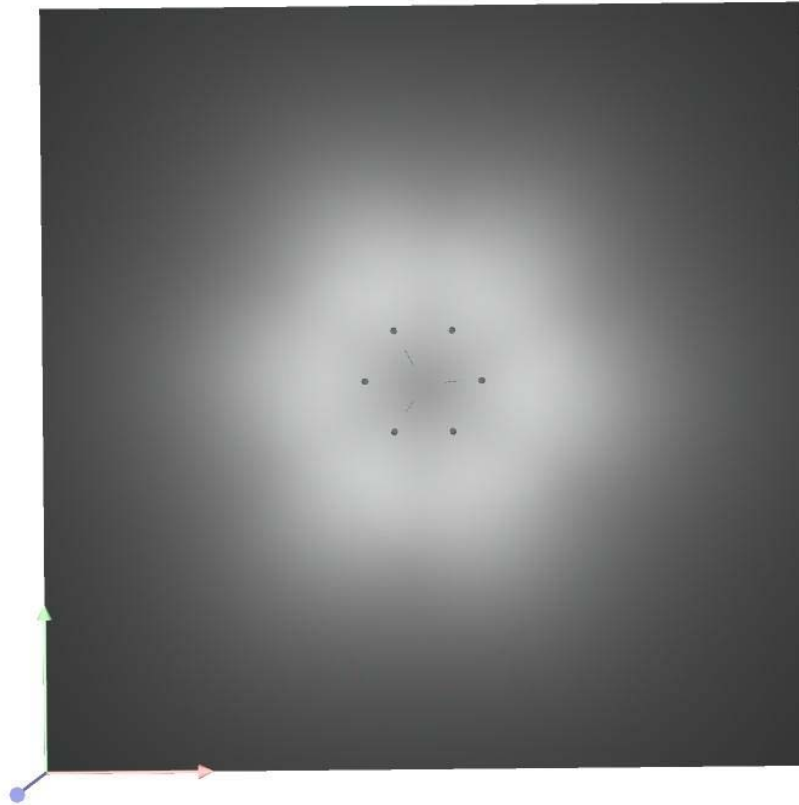
*Modified Technical Specifications

Total: 5478 Total: 5478 85.2

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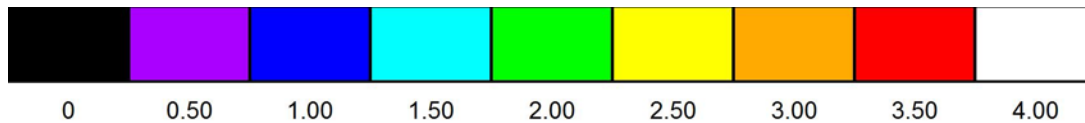
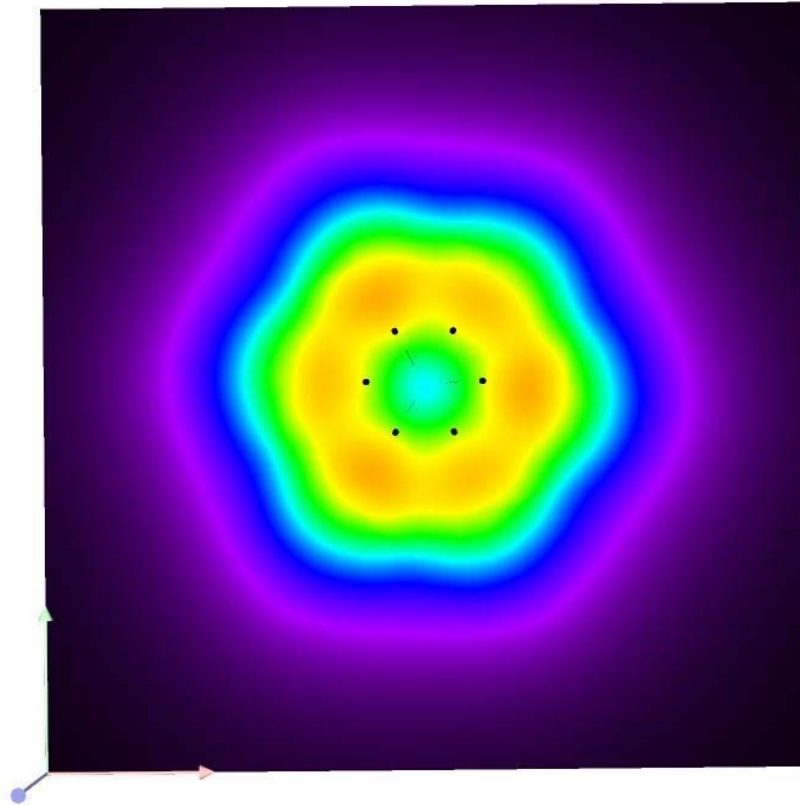
Area 400m2 / 3D Rendering



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Area 400m2 / False Color Rendering



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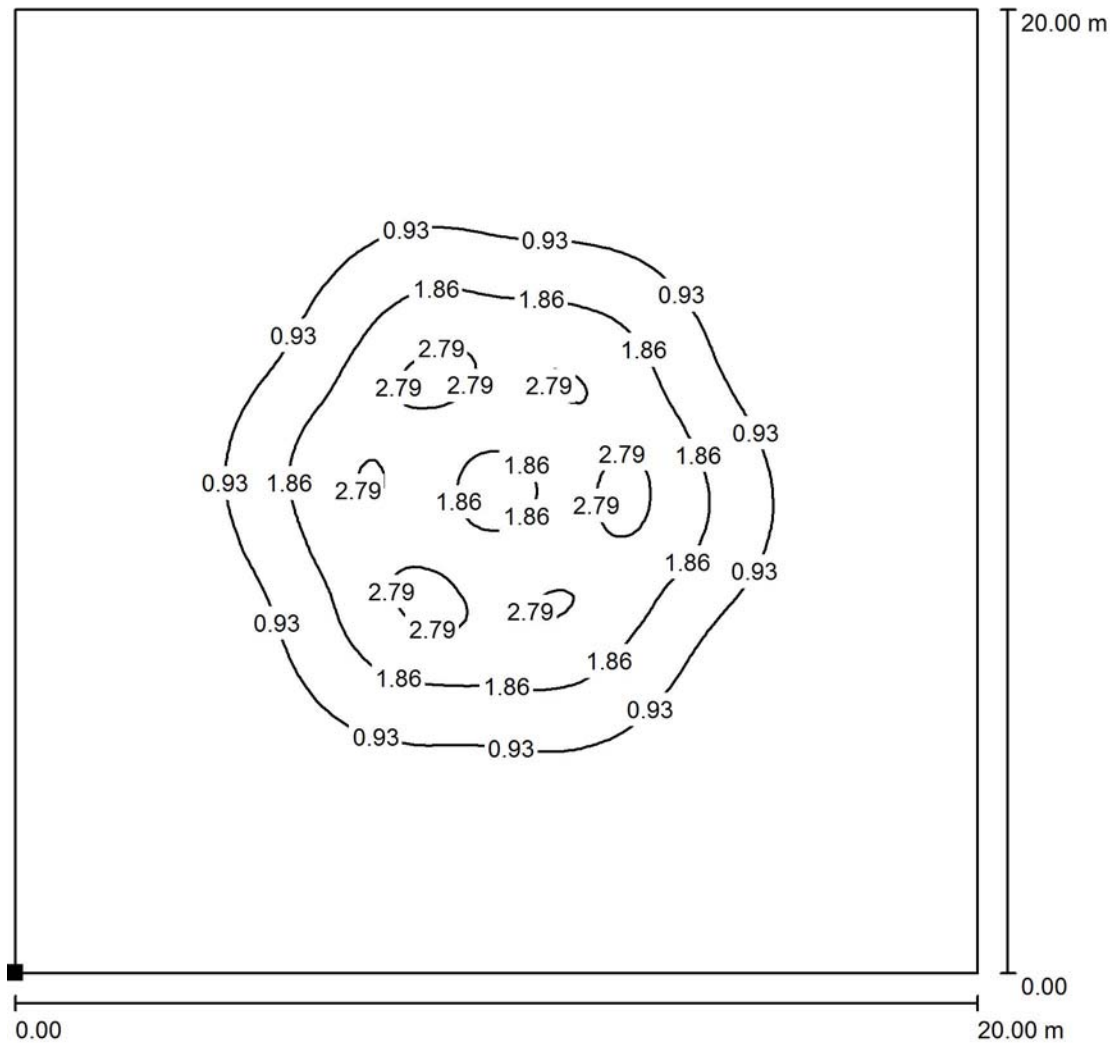
Operator Ing. Jonathan Alvarez

Telephone (55)31853151

Fax

e-Mail jalvarez@energetika.com

Area 400m2 / Elemento del suelo 1 / Superficie 1 / Isolines (E)



Values in Footcandles, Scale 1 : 157

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

E_{av} [fc]
0.67

E_{min} [fc]
0.04

E_{max} [fc]
2.96

$u0$
0.061

E_{min} / E_{max}
0.014

Energetika Sustentable y Ecologica SA de CV

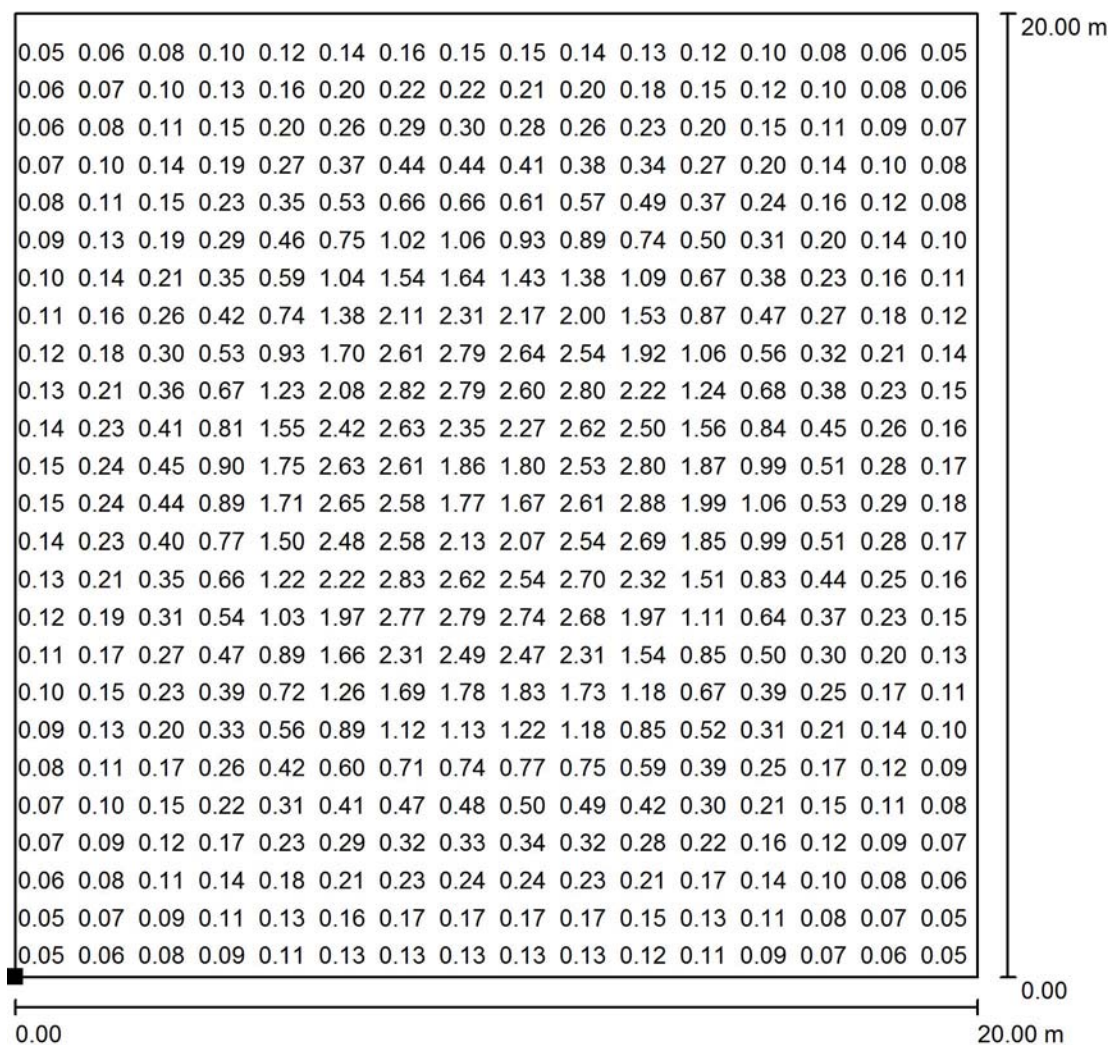
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e-Mail jalvarez@energetika.com

Area 400m2 / Elemento del suelo 1 / Superficie 1 / Value Chart (E)

Values in Footcandles, Scale 1 : 157

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
0.67

 E_{min} [fc]
0.04

 E_{max} [fc]
2.96

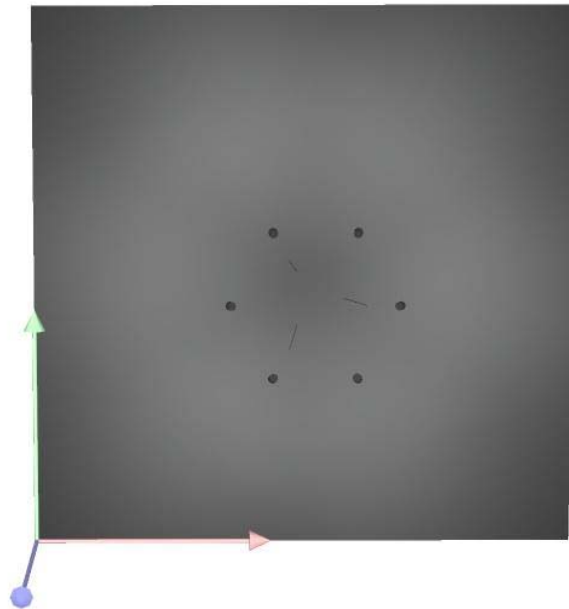
 u_0
0.061

 E_{min} / E_{max}
0.014

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Area 100m2 / 3D Rendering



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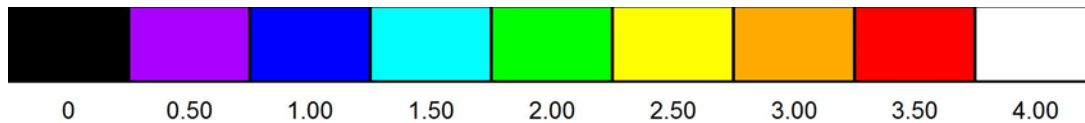
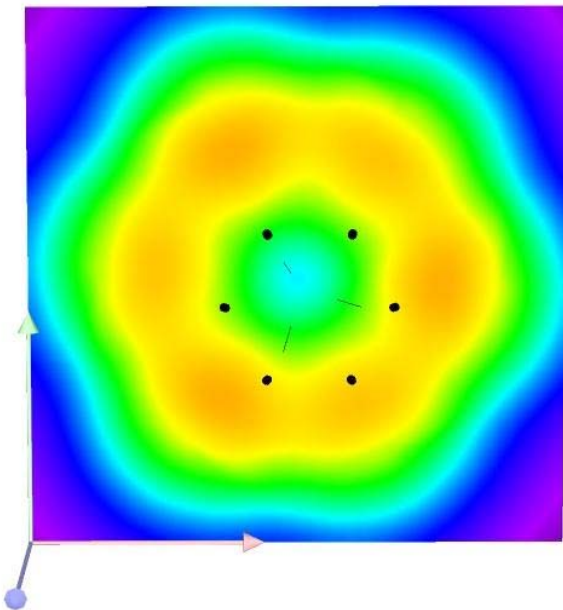
Operator Ing. Jonathan Alvarez

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Area 100m2 / False Color Rendering

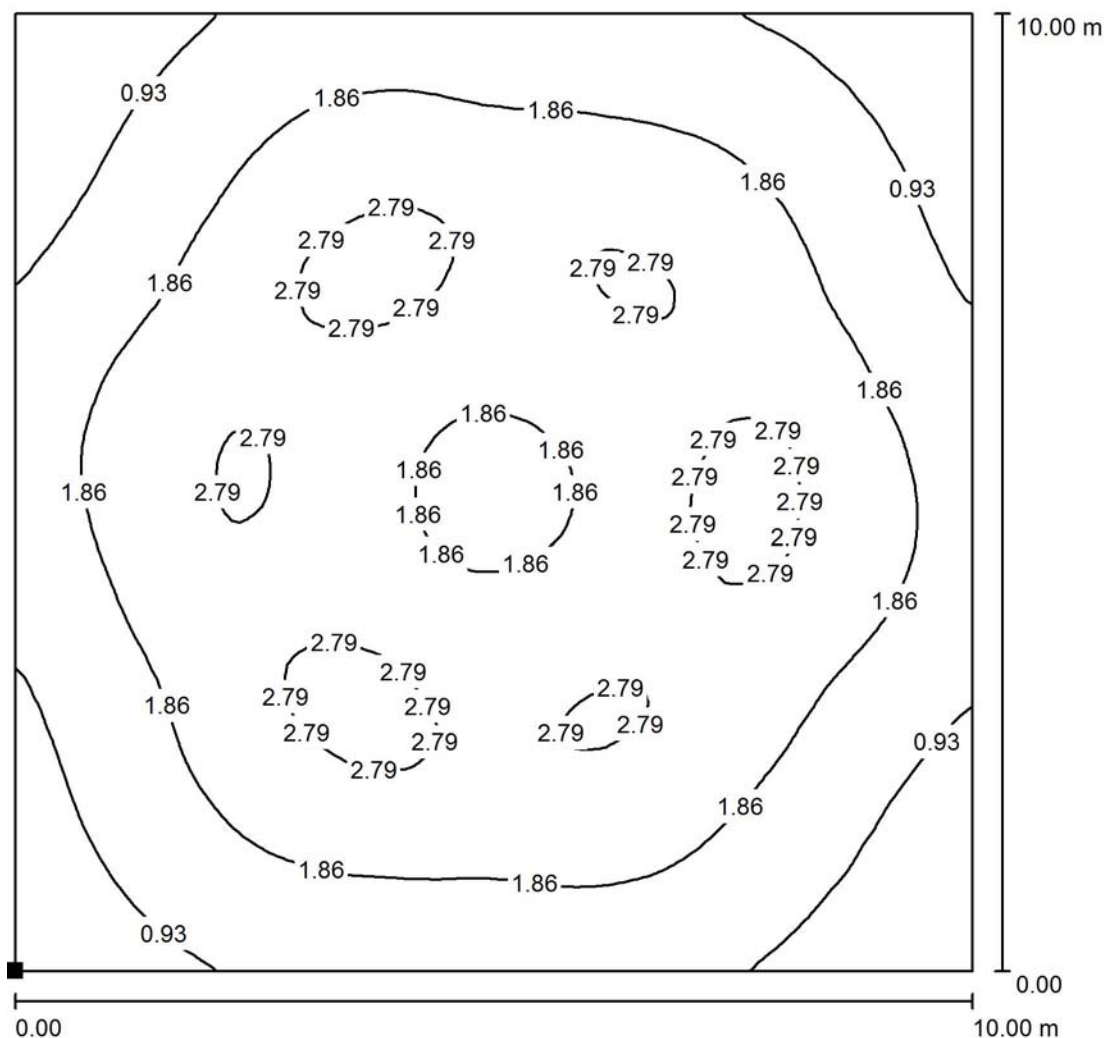


fc

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Area 100m2 / Elemento del suelo 1 / Superficie 1 / Isolines (E)



Values in Footcandles, Scale 1 : 79

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



Grid: 128 x 128 Points

E_{av} [fc]
1.89

E_{min} [fc]
0.40

E_{max} [fc]
2.98

u_0
0.210

E_{min} / E_{max}
0.133

Energetika Sustentable y Ecologica SA de CV

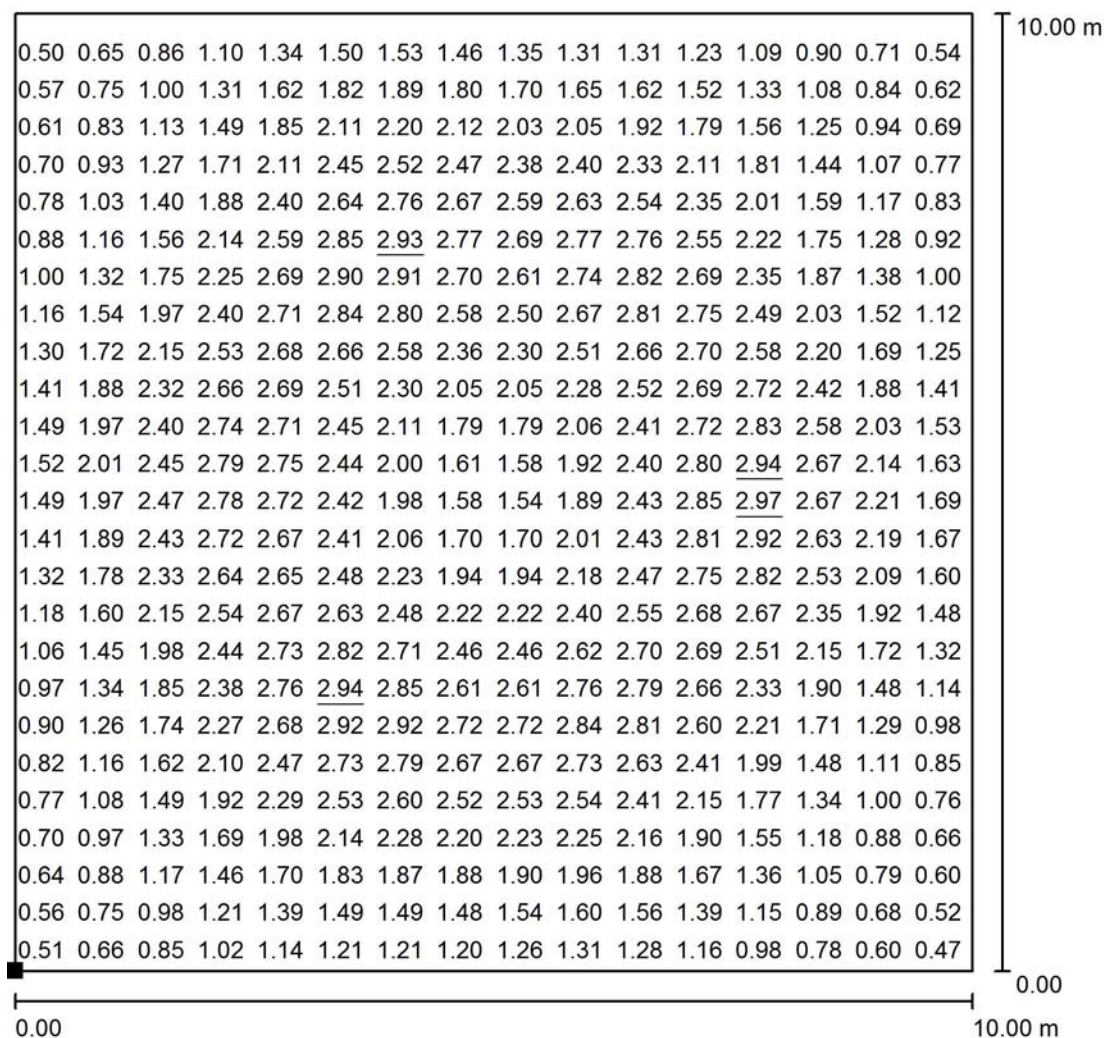
Col. Hipodromo, Cuahutemec, México D.F.

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Area 100m2 / Elemento del suelo 1 / Superficie 1 / Value Chart (E)

Values in Footcandles, Scale 1 : 79

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
1.89

 E_{min} [fc]
0.40

 E_{max} [fc]
2.98

 u_0
0.210

 E_{min} / E_{max}
0.133

Energetika Sustentable y Ecologica SA de CV

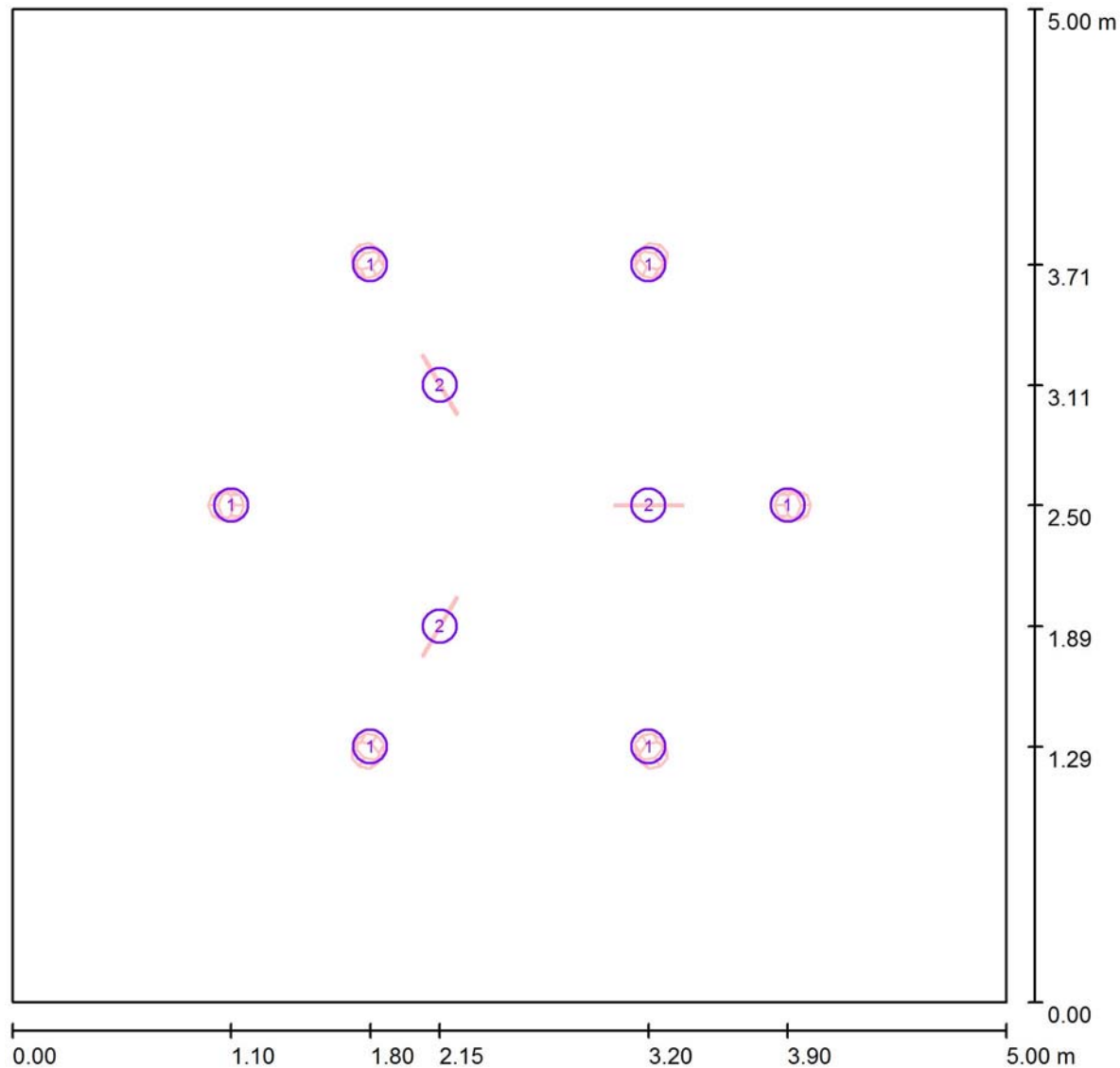
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Area 25m2 / Luminaires (layout plan)

Scale 1 : 36

Luminaire Parts List

No.	Pieces	Designation	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Na3light (Type 1)* (1.000)	5478	5478	85.2

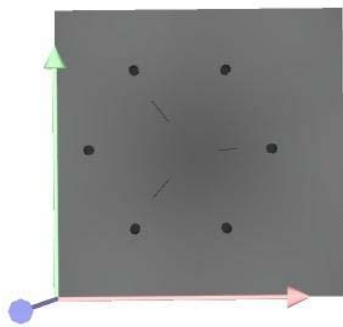
*Modified Technical Specifications

Total: 5478 Total: 5478 85.2

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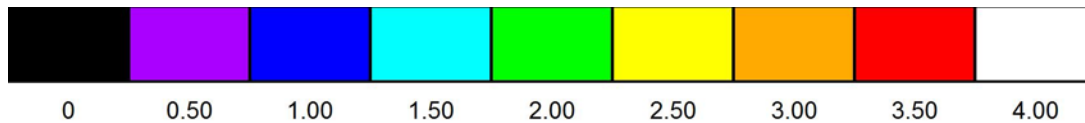
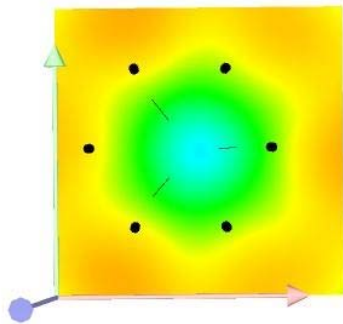
Area 25m2 / 3D Rendering



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Area 25m2 / False Color Rendering



fc

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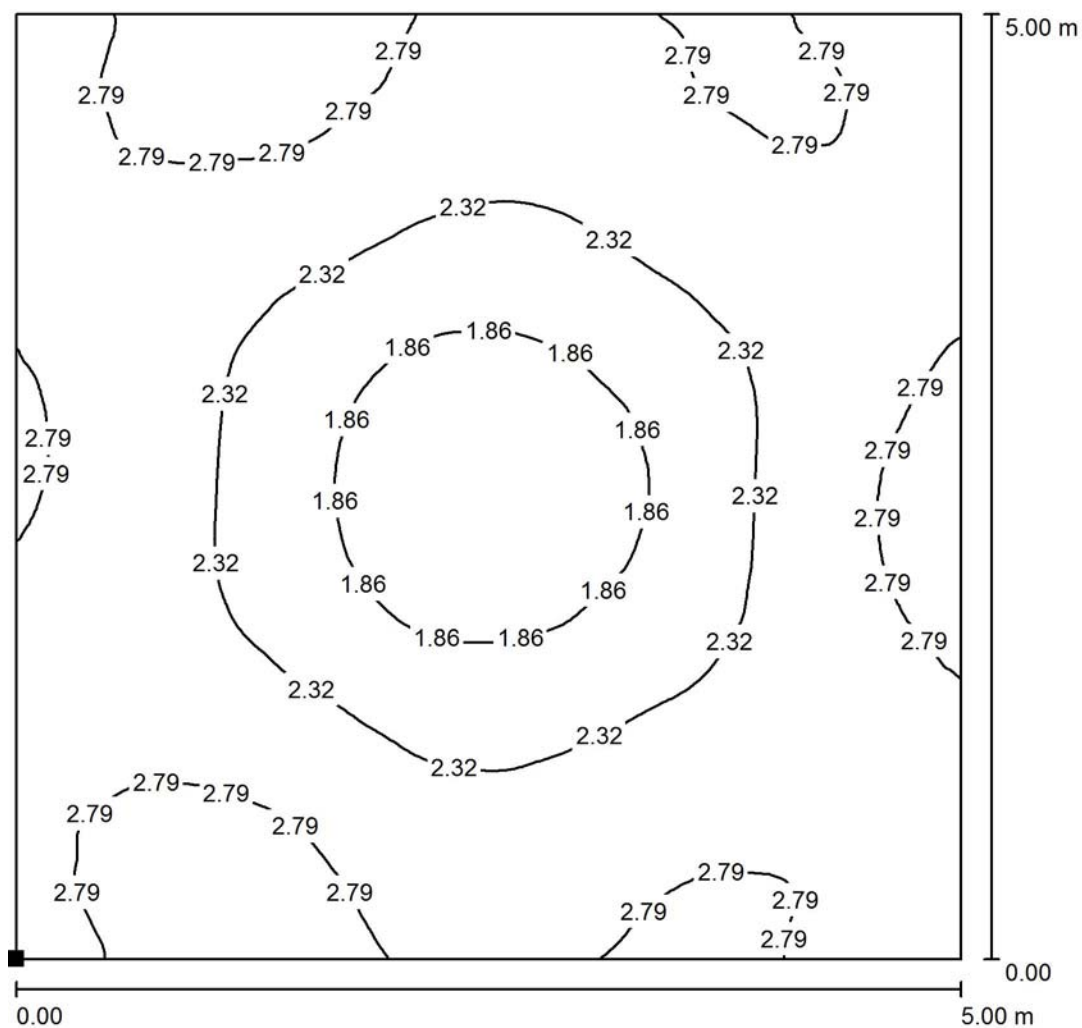
Col. Hipodromo, Cuahutemec, México D.F.

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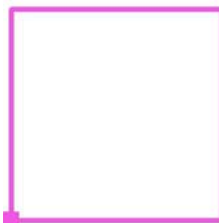
Area 25m2 / Elemento del suelo 1 / Superficie 1 / Isolines (E)

Values in Footcandles, Scale 1 : 40

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
2.48

 E_{min} [fc]
1.47

 E_{max} [fc]
2.98

 u_0
0.594

 E_{min} / E_{max}
0.493

Energetika Sustentable y Ecologica SA de CV

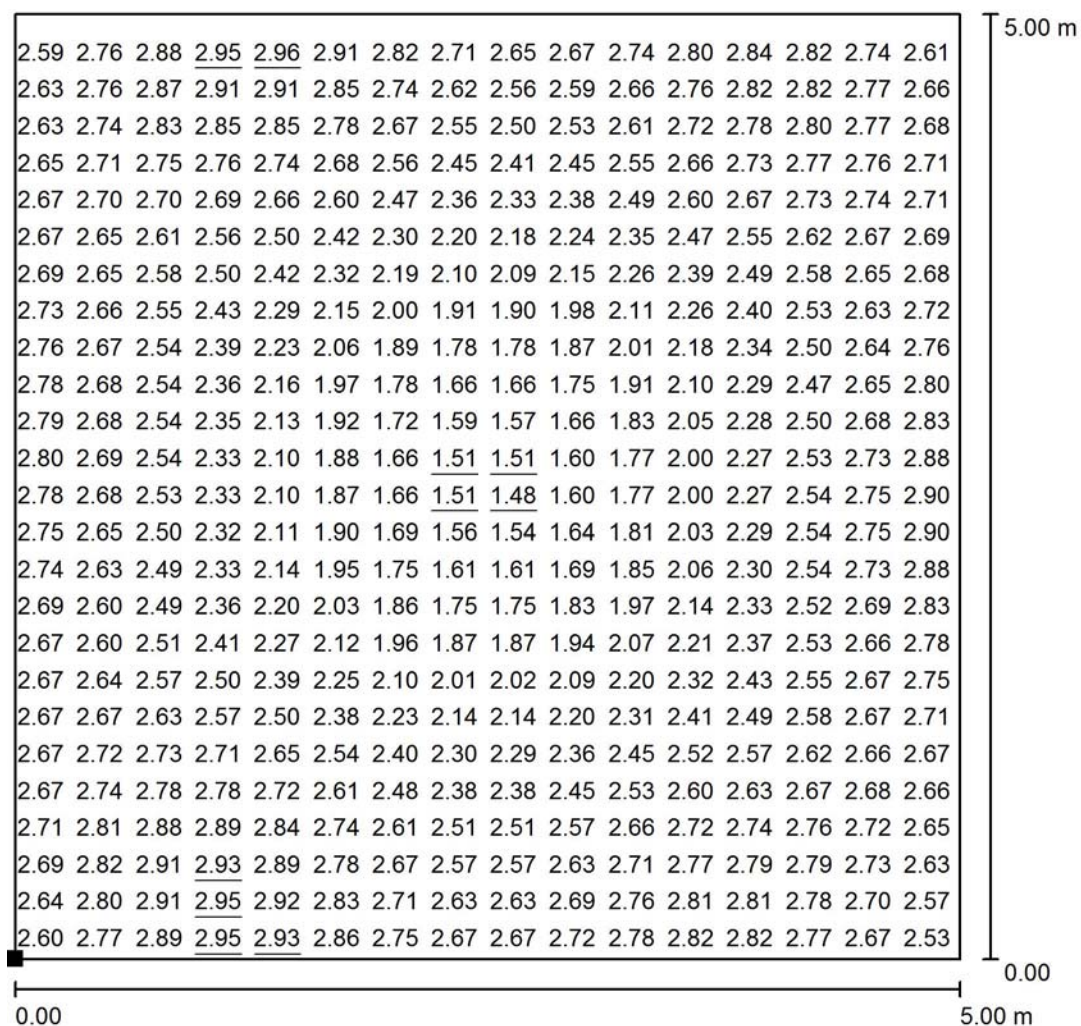
Col. Hipodromo, Cuahutemec, México D.F.

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e-Mail jalvarez@energetika.com

Area 25m2 / Elemento del suelo 1 / Superficie 1 / Value Chart (E)

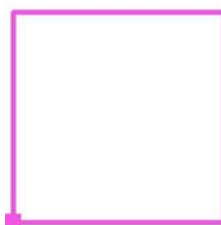
Values in Footcandles, Scale 1 : 40

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 128 x 128 Points

 E_{av} [fc]
2.48

 E_{min} [fc]
1.47

 E_{max} [fc]
2.98

 u_0
0.594

 E_{min} / E_{max}
0.493