

# **BOISKO PILKARSKIE**

## **ZESPÓŁ BOISK SPORTOWYCH ORLIK - 2012**

Project code: CIASNA, DZ. 352/15

Date: 03-07-2012

The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

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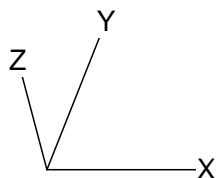
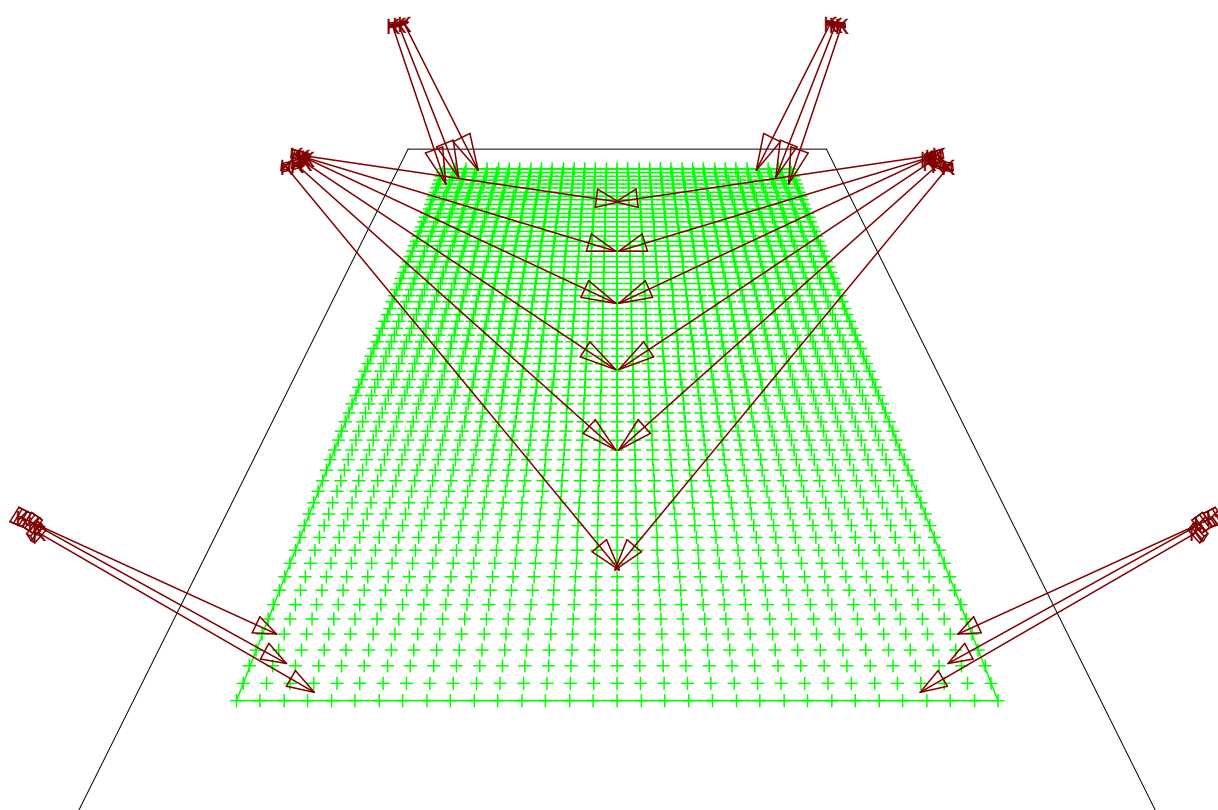
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## 1. Project Description

### 1.1 3-D Project Overview

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K       POWERLUG 2 AS HQI-BT\_1X

## 2. Summary

### 2.1 General Information

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The overall new value factor used for this project is 1.25.

### 2.2 Project Luminaires

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Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
K	24	POWERLUG 2 AS HQI-BT_1X400W	1 * OSRAM HQI-BT 400W/D	450.0	1 * 35000

The total installed power: 10.80 (kWatt)

### 2.3 Calculation Results

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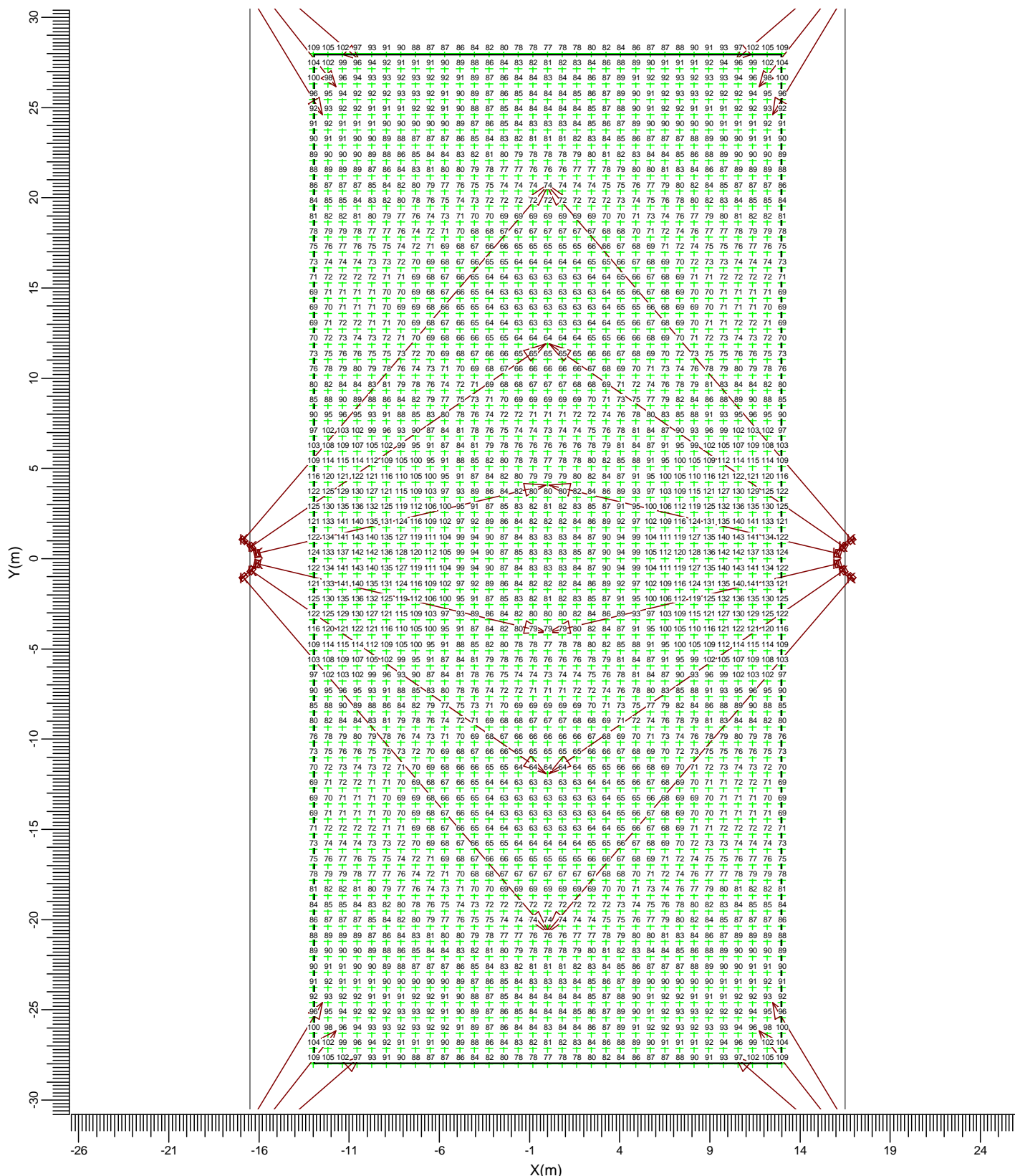
(II)luminance Calculations:

Calculation	Type	Unit	Ave	Min	Max	Min/Ave	Min/Max
boisko pilkarskie	Surface Illuminance	lux	84.5	63.0	143.0	0.75	0.44

### 3. Calculation Results

#### 3.1 boisko pilkarskie: Graphical Table

Grid : boisko pilkarskie at Z = 0.00 m  
Calculation : Surface Illuminance (lux)



K ———▶ POWERLUG 2 AS HQI-BT\_1X

Average  
84.5

Minimum  
63.0

Maximum  
143.0

Min/Ave  
0.75

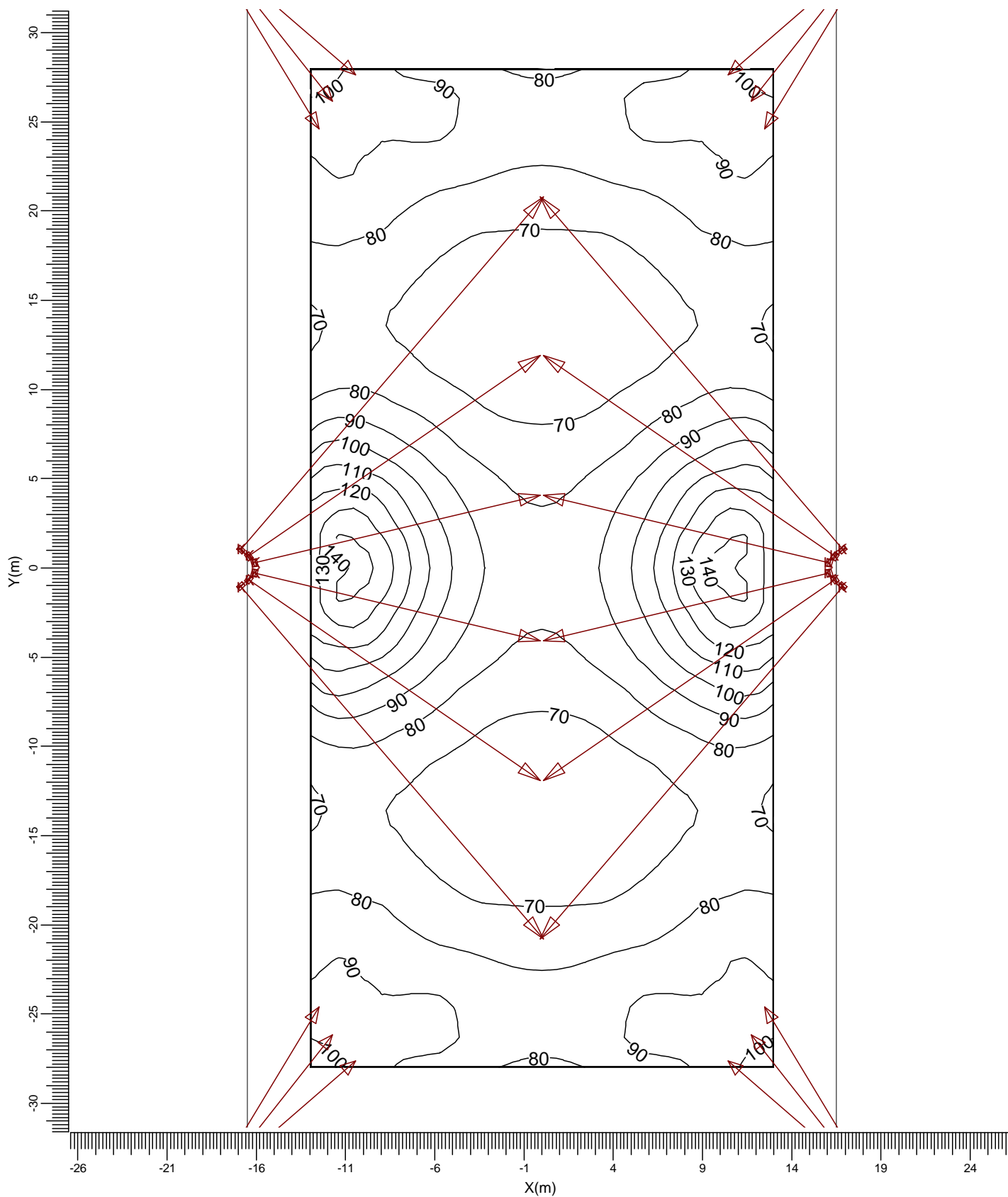
Min/Max  
0.44

Project new value factor  
1.25

Scale  
1:300

### 3.2 boisko piłkarskie: Iso Contour

Grid : boisko piłkarskie at Z = 0.00 m  
Calculation : Surface Illuminance (lux)



K  POWERLUG 2 AS HQI-BT\_1X

Average  
84.5

Minimum  
63.0

Maximum  
143.0

Min/Ave  
0.75

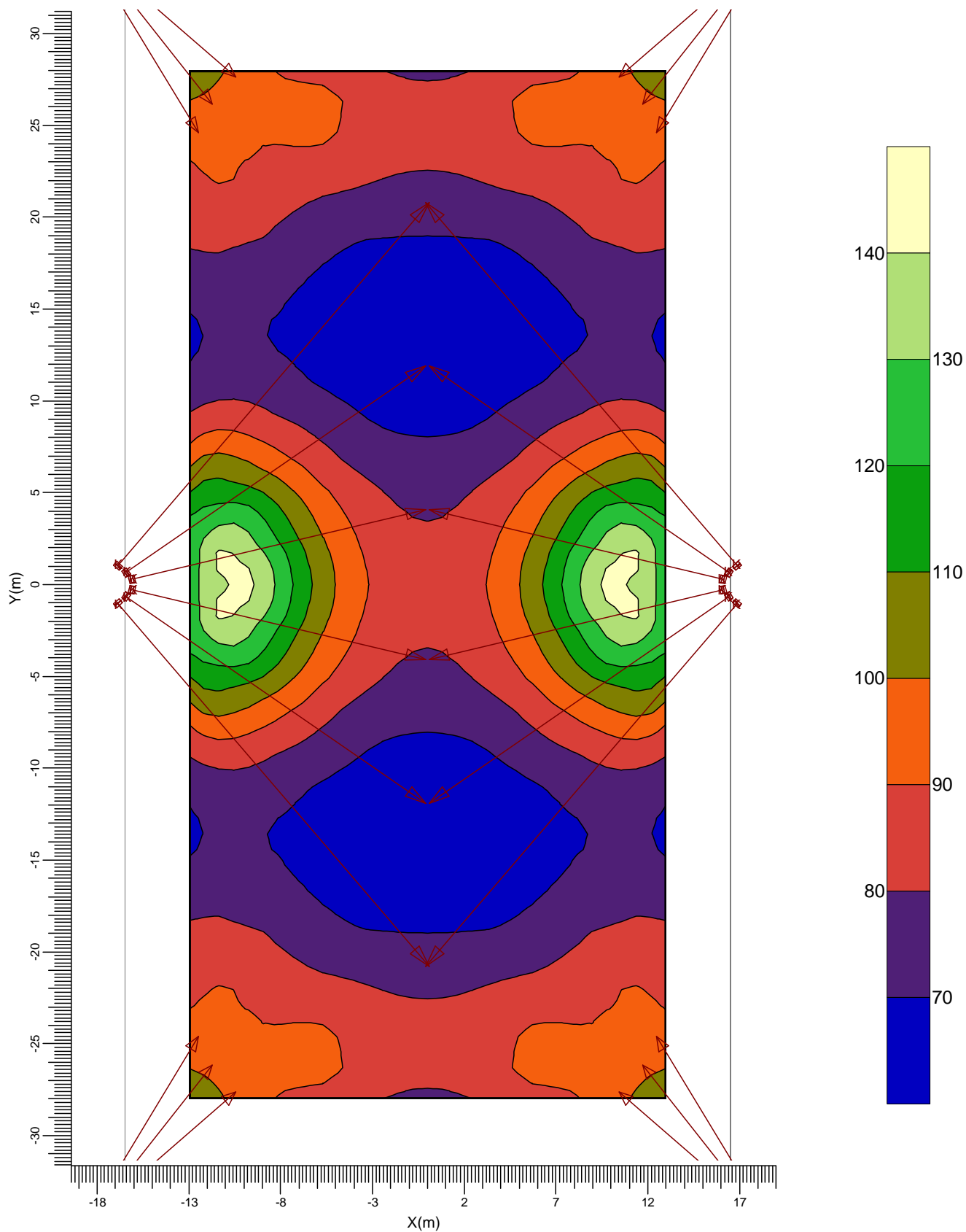
Min/Max  
0.44

Project new value factor  
1.25

Scale  
1:300

### 3.3 boisko pilkarskie: Filled Iso Contour

Grid : boisko pilkarskie at Z = 0.00 m  
Calculation : Surface Illuminance (lux)



K

POWERLUG 2 AS HQI-BT\_1X

Average  
84.5

Minimum  
63.0

Maximum  
143.0

Min/Ave  
0.75

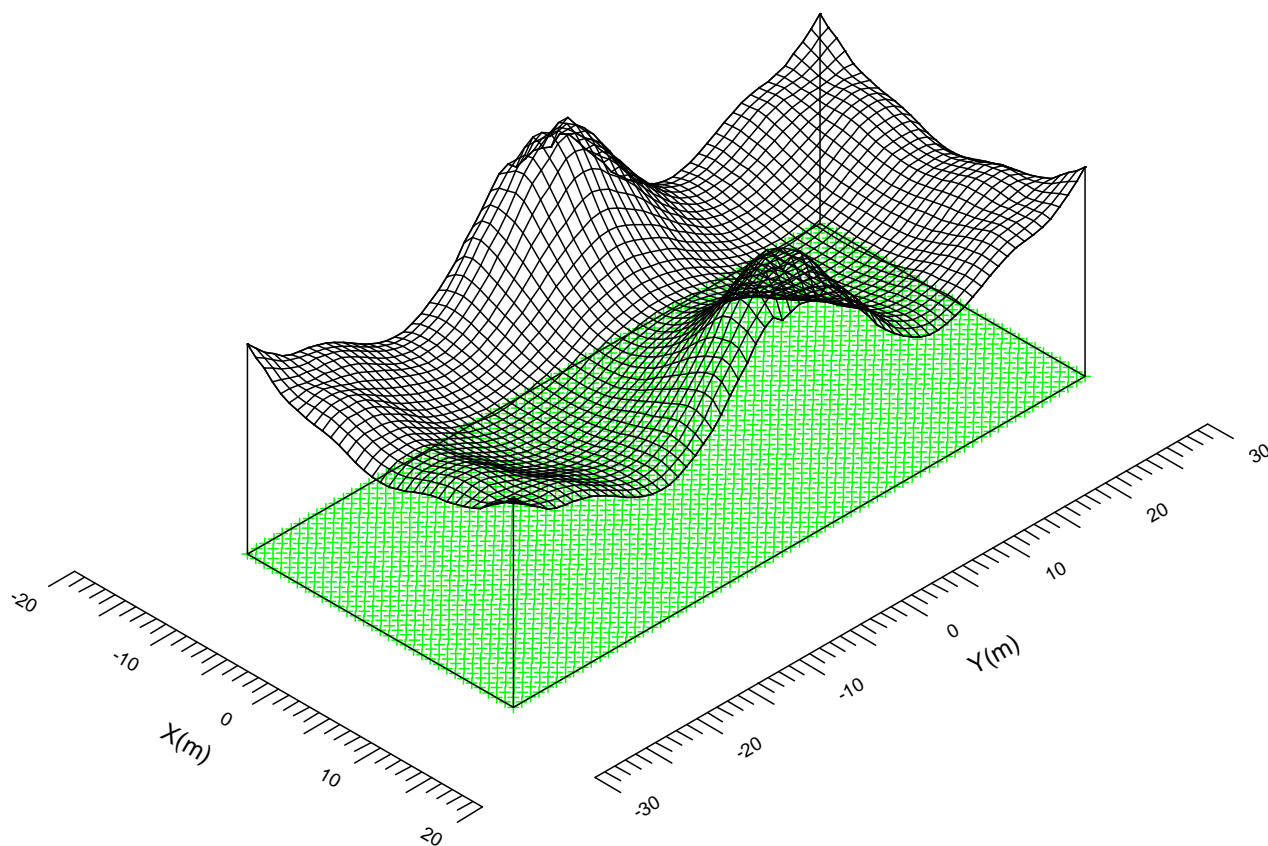
Min/Max  
0.44

Project new value factor  
1.25

Scale  
1:300

### 3.4 boisko piłkarskie: Mountain Plot

Grid : boisko piłkarskie at Z = 0.00 m  
Calculation : Surface Illuminance (lux)



Average	Minimum	Maximum	Min/Ave	Min/Max	Project new value factor
84.5	63.0	143.0	0.75	0.44	1.25



## 4. Installation Data

### 4.1 Legends

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Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
K	24	POWERLUG 2 AS HQI-BT_1X400W	1 * OSRAM HQI-BT 400W/D	1 * 35000

### 4.2 Luminaire Positioning and Orientation

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Qty and Code	Position			Aiming Angles		
	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * K	-16.84	-31.79	10.00	58.7	40.0	0.0
1 * K	-16.84	31.79	10.00	-58.7	40.0	0.0
1 * K	-16.82	-1.07	10.00	-49.4	68.9	0.0
1 * K	-16.82	1.07	10.00	49.4	68.9	0.0
1 * K	-16.39	-32.07	10.00	51.8	36.9	0.0
1 * K	-16.39	32.07	10.00	-51.8	36.9	0.0
1 * K	-16.37	-0.69	10.00	-34.5	63.2	0.0
1 * K	-16.37	0.69	10.00	34.5	63.2	0.0
1 * K	-16.08	-32.51	10.00	40.8	36.7	0.0
1 * K	-16.08	32.51	10.00	-40.8	36.7	0.0
1 * K	-16.04	-0.30	10.00	-13.3	58.6	0.0
1 * K	-16.04	0.30	10.00	13.3	58.6	0.0
1 * K	16.04	-0.30	10.00	-166.7	58.6	0.0
1 * K	16.04	0.30	10.00	166.7	58.6	0.0
1 * K	16.08	-32.51	10.00	139.2	36.7	0.0
1 * K	16.08	32.51	10.00	-139.2	36.7	0.0
1 * K	16.37	-0.69	10.00	-145.5	63.2	0.0
1 * K	16.37	0.69	10.00	145.5	63.2	0.0
1 * K	16.39	-32.07	10.00	128.2	36.9	0.0
1 * K	16.39	32.07	10.00	-128.2	36.9	0.0
1 * K	16.82	-1.07	10.00	-130.6	68.9	0.0
1 * K	16.82	1.07	10.00	130.6	68.9	0.0
1 * K	16.84	-31.79	10.00	121.3	40.0	0.0
1 * K	16.84	31.79	10.00	-121.3	40.0	0.0