# Lighting Applications Dept

# Principal Lighting Ltd

**Project** : ***SAMPLE PLOT AREA***
**Data** : ***26/07/2011***
**Client name** : ***OLDFIELD GROUP***
**Room** : ***1230 FARO 70W METAL HALIDE***
**Calc. area** : ***10M X 10M SAMPLE AREA***

## Project parameters

**Room dimensions**

X [m] : 10.00
Y [m] : 10.00
Z [m] : 0.00

**Calc. parameters**

Working plane H [m] : 0.00
Range width [m] : 0.00
Mantenance c. : 0.80

**Calculation grid**

X : 14
Y : 14
Z : 10

**Reflection coeff. (%)**

Working plane : 0
Ceiling : 0
Eastern wall : 0
Northern wall : 0
Western wall : 0
Southern wall : 0

**Average illuminance [lux]**

Working plane : 17
Ceiling : 0
Eastern wall : 0
Northern wall : 0
Western wall : 0
Southern wall : 0

**Values on working plane**

Lumen per m² : 85.00
Watt per m² : 1.00

UGR crosswise : : N.C.
UGR lenghtwise: : N.C.

**Total installed fixtures 1 with 1 lamp ( Total flux [Klm] 8.50 [klm] )**

| No. | Fixture | No. | Lamp | Flux | No. | Lamp | Flux |
|---|---|---|---|---|---|---|---|
| 1 | 1230 JM-E 70 | 1 | HIE100 V polverata | 8.50 | 0 | | 0.00 |

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## Installed fixtures details

| No. | Fixture | Lamp | Flux | Lamp | Flux | X [m] | Y [m] | Z [m] | I.NS° | I.EW° | Rot.° | Status | Dimmer |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1230 JM-E 70 | HIE100 V polverata | 8500 | | 0 | 5.00 | 5.00 | 1.10 | 0 | 0 | 0 | On | 100% |

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## Lux table Working plane

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.64 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 1 |
| 8.93 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 5 | 4 | 3 | 2 | 2 |
| 8.21 | 2 | 3 | 4 | 6 | 8 | 10 | 11 | 11 | 10 | 8 | 6 | 4 | 3 | 2 |
| 7.50 | 3 | 4 | 6 | 9 | 12 | 17 | 21 | 21 | 17 | 12 | 9 | 6 | 4 | 3 |
| 6.79 | 3 | 5 | 8 | 12 | 21 | 34 | 46 | 46 | 34 | 21 | 12 | 8 | 5 | 3 |
| 6.07 | 4 | 6 | 10 | 17 | 34 | 67 | 106 | 106 | 67 | 34 | 17 | 10 | 6 | 4 |
| 5.36 | 4 | 6 | 11 | 21 | 46 | 106 | 111 | 111 | 106 | 46 | 21 | 11 | 6 | 4 |
| 4.64 | 4 | 6 | 11 | 21 | 46 | 106 | 111 | 111 | 106 | 46 | 21 | 11 | 6 | 4 |
| 3.93 | 4 | 6 | 10 | 17 | 34 | 67 | 106 | 106 | 67 | 34 | 17 | 10 | 6 | 4 |
| 3.21 | 3 | 5 | 8 | 12 | 21 | 34 | 46 | 46 | 34 | 21 | 12 | 8 | 5 | 3 |
| 2.50 | 3 | 4 | 6 | 9 | 12 | 17 | 21 | 21 | 17 | 12 | 9 | 6 | 4 | 3 |
| 1.79 | 2 | 3 | 4 | 6 | 8 | 10 | 11 | 11 | 10 | 8 | 6 | 4 | 3 | 2 |
| 1.07 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 5 | 4 | 3 | 2 | 2 |
| 0.36 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 1 |
| [m] | 0.36 | 1.07 | 1.79 | 2.50 | 3.21 | 3.93 | 4.64 | 5.36 | 6.07 | 6.79 | 7.50 | 8.21 | 8.93 | 9.64 |

| Typical data | |
|---|---|
| Eave [lux] | : 17 |
| Emax [lux] | : 111 |
| Emin [lux] | : 1 |

| Uniformity values | |
|---|---|
| Emin/Eave | : 0.06 |
| Emin/Emax | : 0.01 |
| Emax/Eave | : 6.53 |

| Miscellaneous | |
|---|---|
| Utilisation c. | : 0.25 |

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| | |
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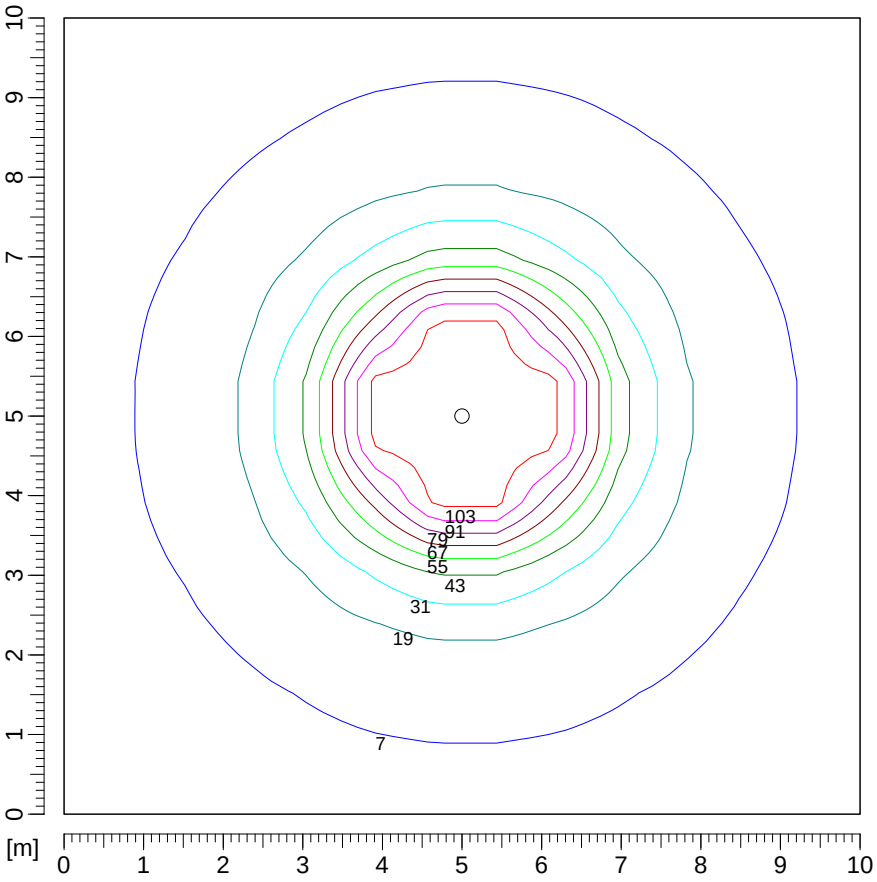
## Isolux Working plane




**Section values [lux]**

| | | |
|---|---|---|
| 7.0 | 43.0 | 79.0 |
| 19.0 | 55.0 | 91.0 |
| 31.0 | 67.0 | 103.0 |

| | |
|---|---|
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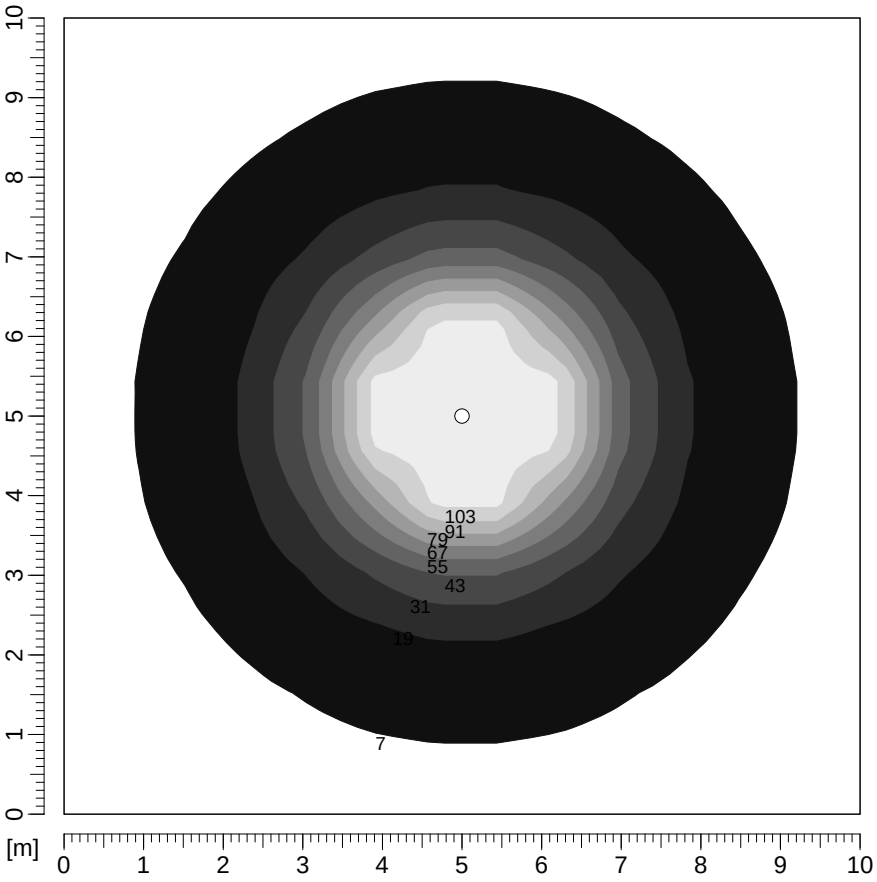
## Isolux Working plane




| Section values [lux] | | |
|---|---|---|
| 7.0 | 43.0 | 79.0 |
| 19.0 | 55.0 | 91.0 |
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