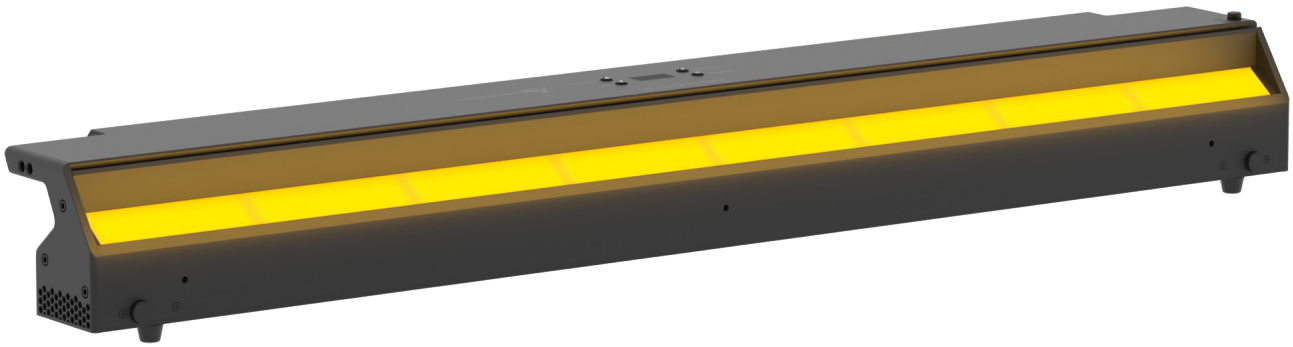
PROLiGHTS

# GUIDELINES FOR INSTALLATION SETUP



## **EclCyclorama** 100

330 W linear soft CYC and flood light
with RGB + Warm White colour mixing

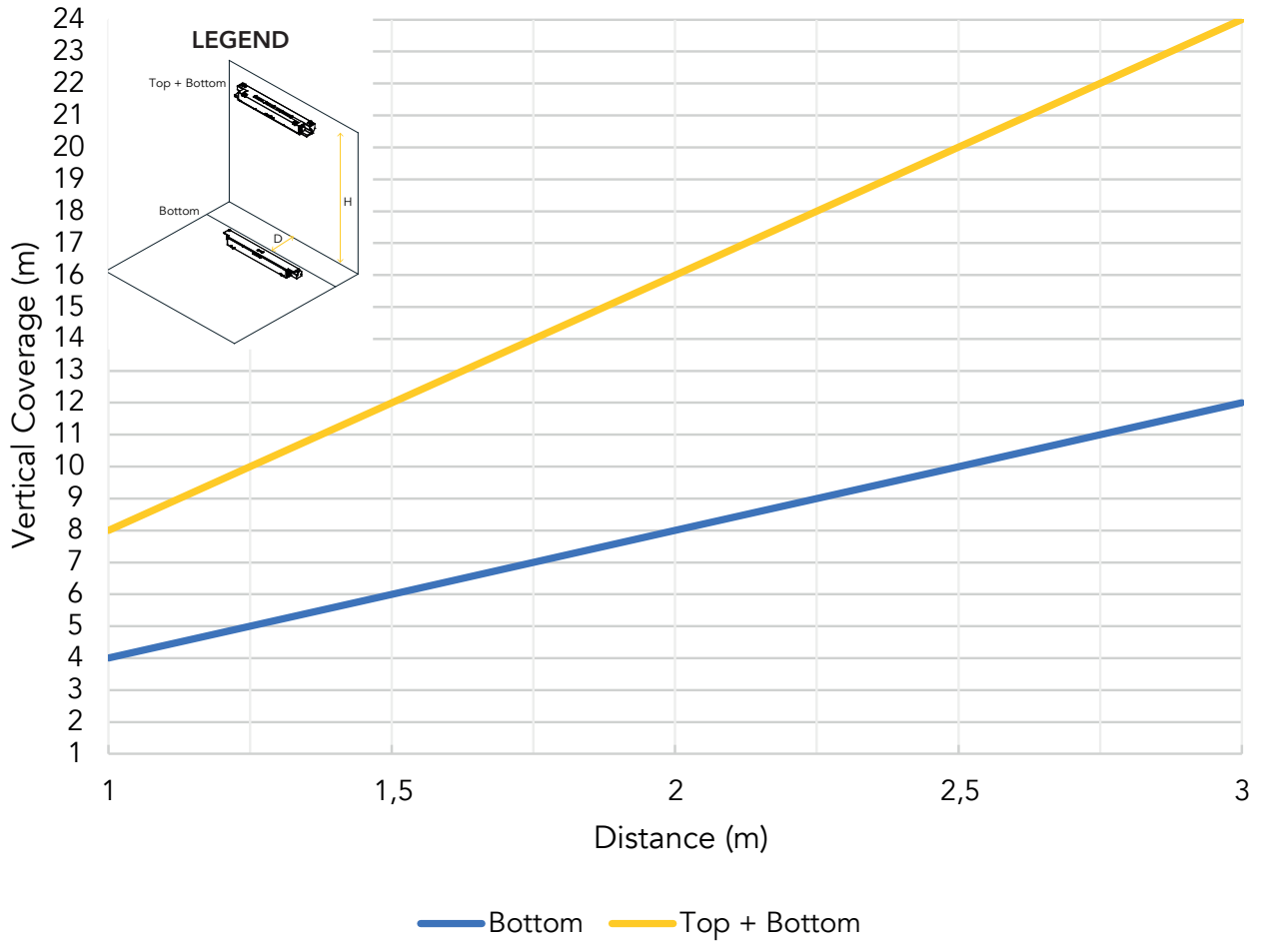
## Introduction

The ECLCYC100 is an asymemetrical fixture that has been designed for application as CYC light and floodlight being able to be placed both at the front or at the end of the stage. Its soft and wide optics features a beam angle of 80° horizontal x 40° vertical, making this fixture flexible and effective to illuminate walls, sets and cyclorama uniformly with and even wash with a perfect blending of colours in multiple and flexible configurations.
The ECLCYC100 ensures good light distribution from 1 m up to 3 m installation distance from the CYC wall, and it can be installed placing fixtures next each other in a continuous line or with a clearance of up to 3 meter without hard edges or dark gaps, even when illuminating curved canvas.

## Installation configurations

ECLCYC100 can be installed at the bottom, top or both top + bottom depending of the desired effect (eveness or color gradient on the cyclorama).
One of the key aspects of the ECLCYC100 is its flexibility, and this document will shows how the fixture will behave at different distance from the **CYC wall**, and how it performs when combines in top + bottom configuration.
The ECLCYC100 is equipped with on board adjustable foot to regulate the tilt for the fixture focusing. The tilt adjustment has a range of ±8°. For distances from 1 to 1,5 m the tilt should adjusted at +8°, for distances more than 3 m the tilt should be adjusted at -8°.

### *Relation between vertical coverage and distance from the cyc wall*



## Simple rules to take in mind

When ECLCYC100 units are installed in a single row of N units (top or bottom) they illuminate the walls with a uniform horizontal distribution that fades in intensity vertically. When they are installed on two rows of N units each (top+bottom) at the same working distance from the wall, they create a uniform light distribution achieving the best uniformity on the cyclorama wall.

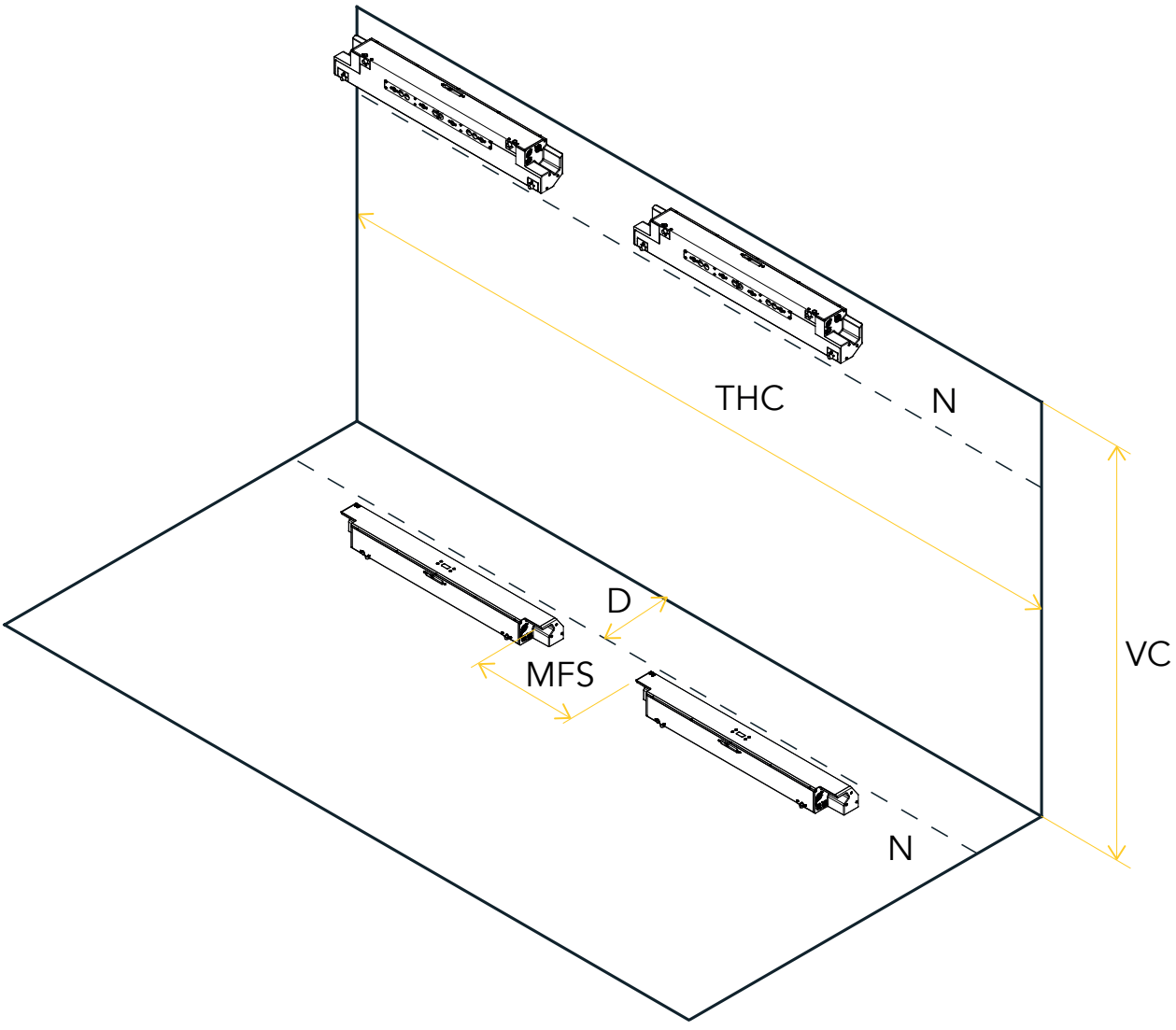
**One row setup of "N" ECLCYC100 (top or bottom)**
- **VC** (Vertical Coverage) = **D x 4 m**

**Two rows setup of "N" ECLCYC100 (top+bottom)**
- **VC** (Vertical Coverage) = **D x 8 m**

Distance (**D**) to CYC Wall = **1 - 3 m**

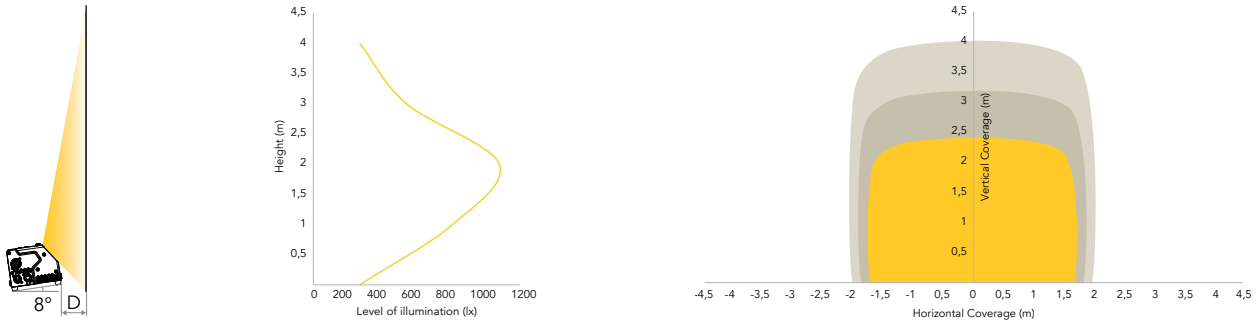
**Tilt adjustment** for distances **from 1 to 1,5 m: +8°**
for distances **more than 3 m: -8°**

Maximum Fixture Spacing (**MFS**) = **3 m**
Horizontal Coverage (**HC**) of 1 unit = **6 m**
Total Horizontal Coverage (**THC**) of **N** units with acceptable uniformity = **N x 3 m**

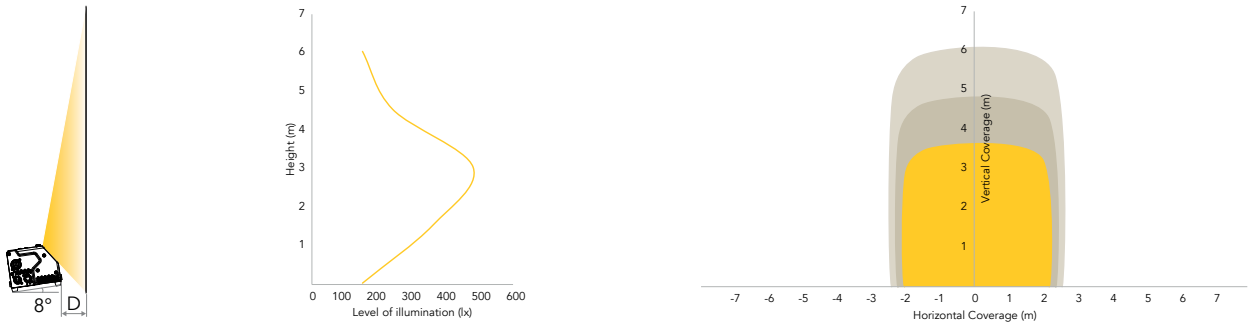


## ECLCYC100 PERFORMANCE WITH DIFFERENCE INSTALLATION CONFIGURATIONS (TOP OR BOTTOM)

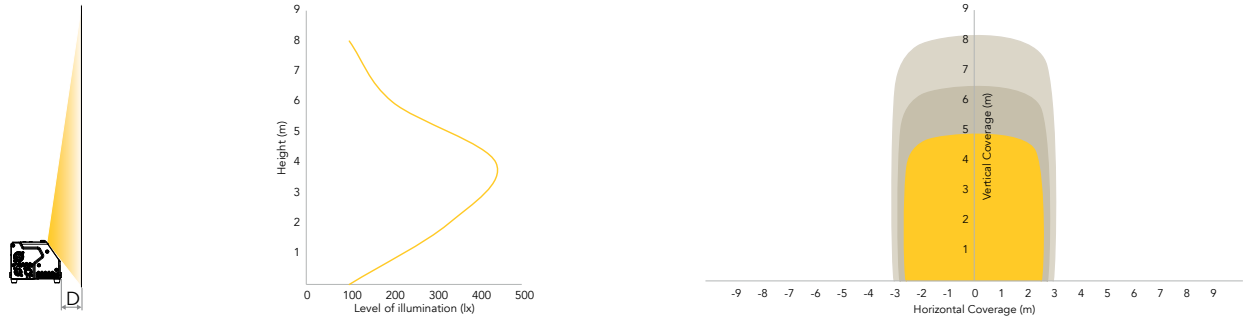
### DISTANCE = 1m TILT = 8°



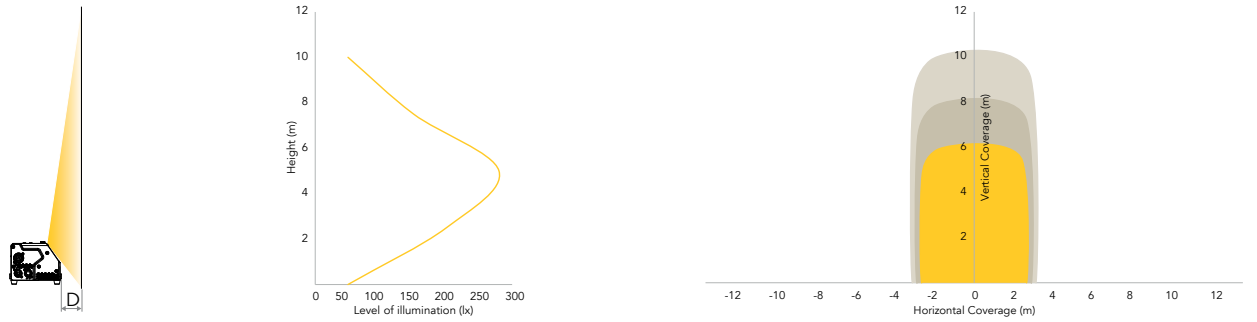

### DISTANCE = 1.5m TILT = 8°



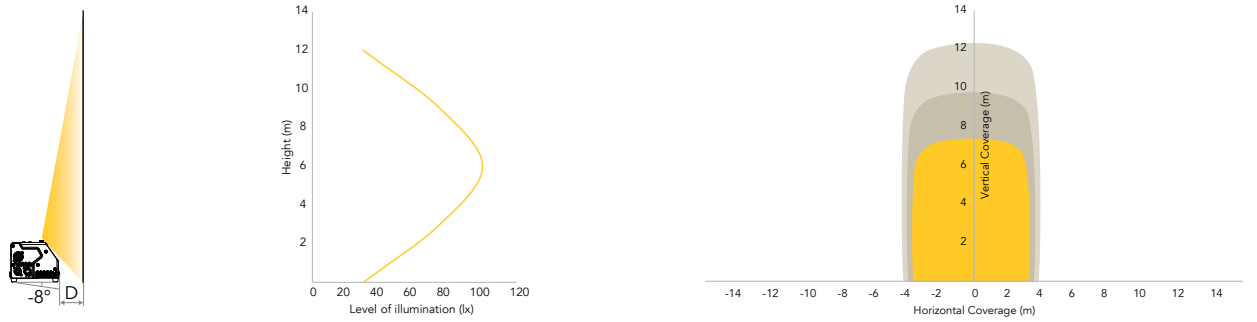

### DISTANCE = 2m TILT = 0°




### DISTANCE = 2.5m TILT = 0°

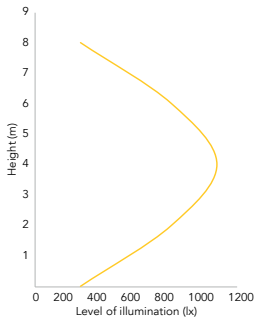


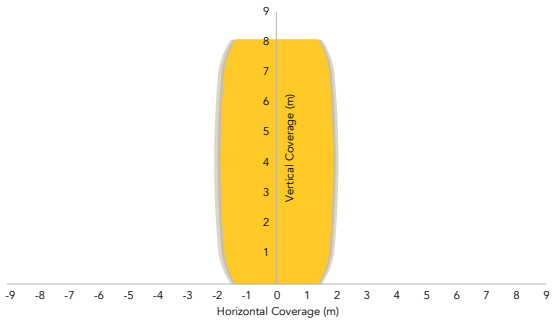

### DISTANCE = 3m TILT = -8°



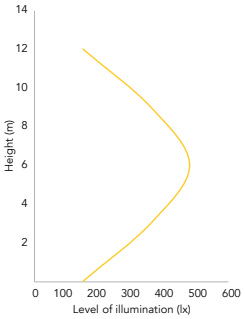
## ECLCYC100 PERFORMANCE WITH DIFFERENCE INSTALLATION CONFIGURATIONS (TOP AND BOTTOM)

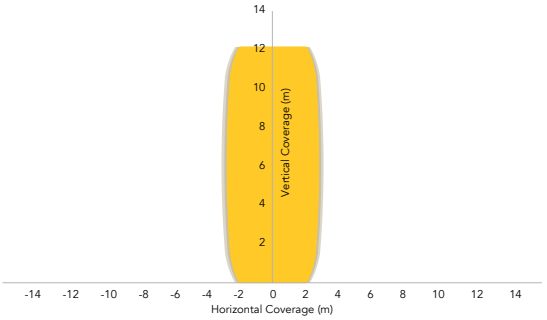
### DISTANCE = 1m TILT = 8°

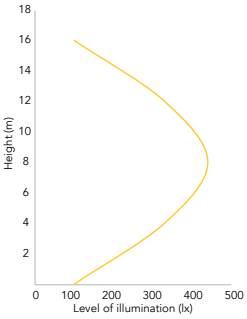



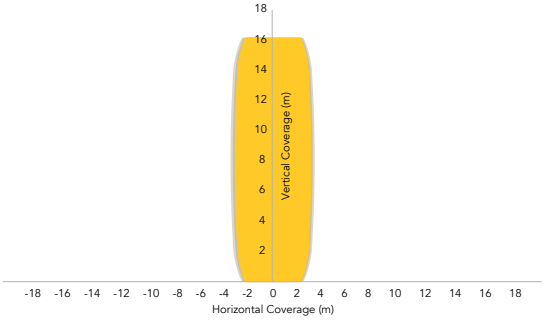

### DISTANCE = 1.5m TILT = 8°

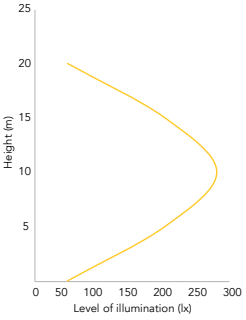



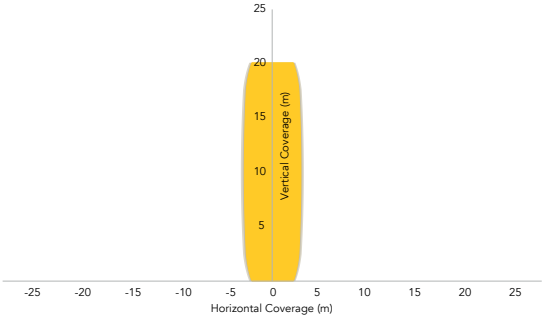

### DISTANCE = 2m TILT = 8°

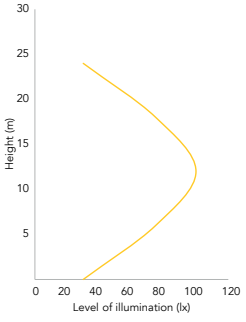



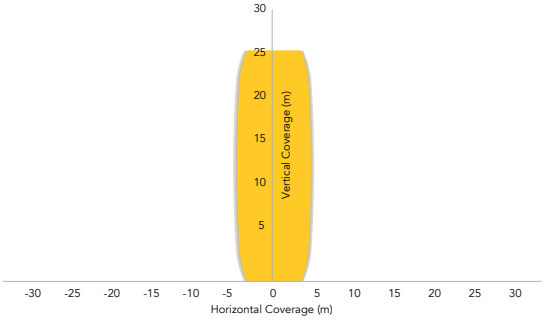

### DISTANCE = 2.5 m TILT = 0°

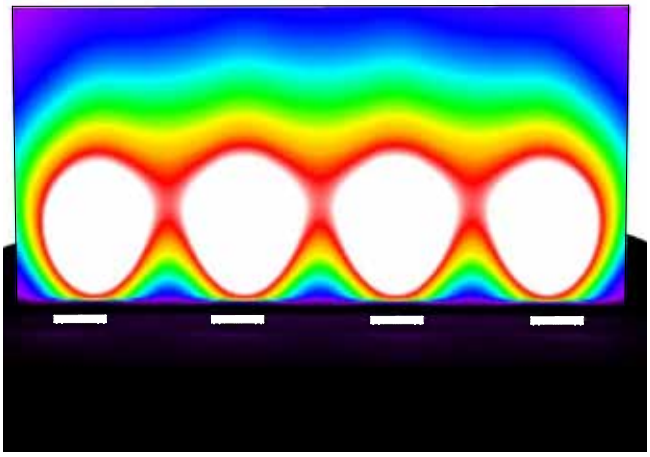

### DISTANCE = 3m TILT = -8°

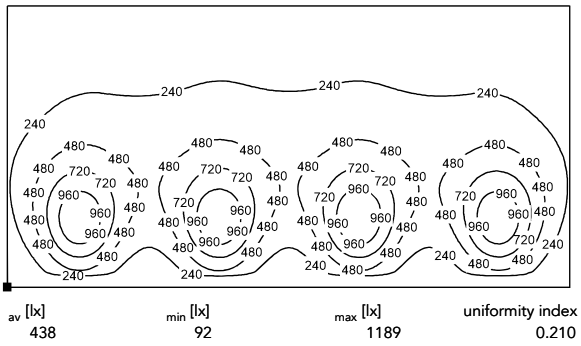



## Case study 1: Wall 12m x 6m D = 1m

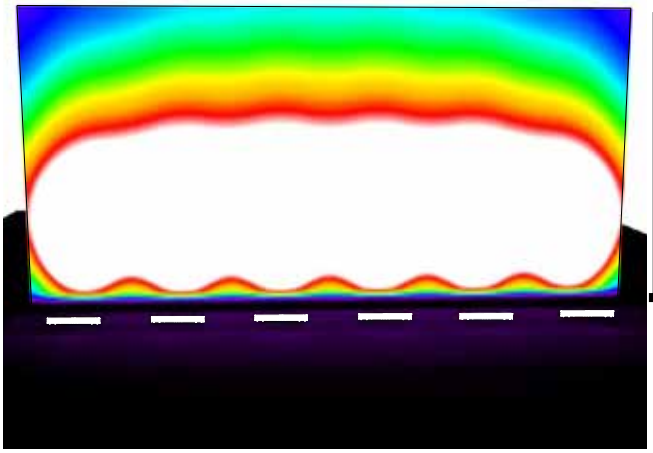
**Minimum configuration**: 4 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **2**m.

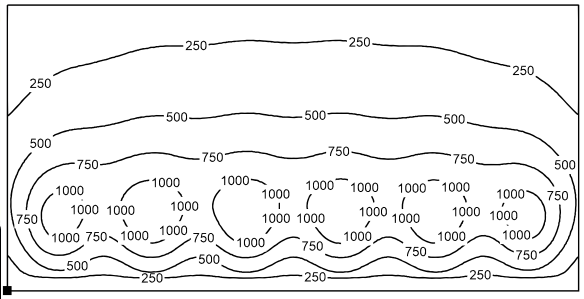





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 438 | 92 | 1189 | 0.210 |

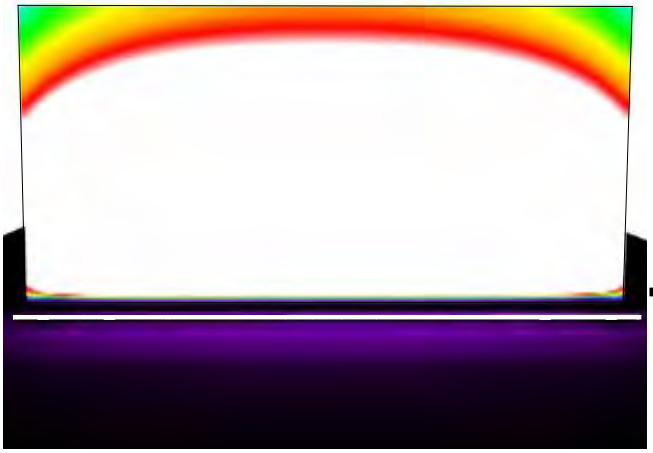
**Medium configuration**: 6 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **1**m.

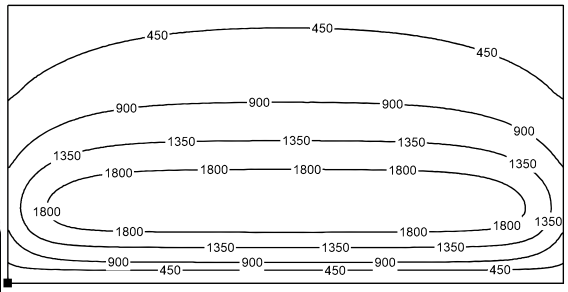




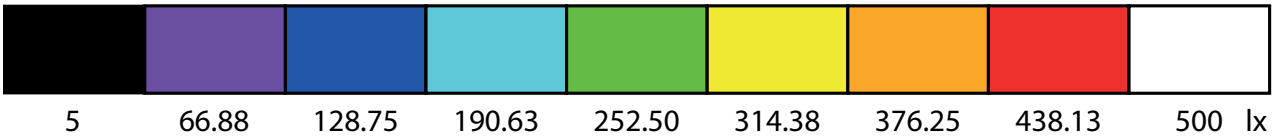

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 627 | 148 | 1233 | 0.237 |

**Best configuration**: 12 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **0**m.



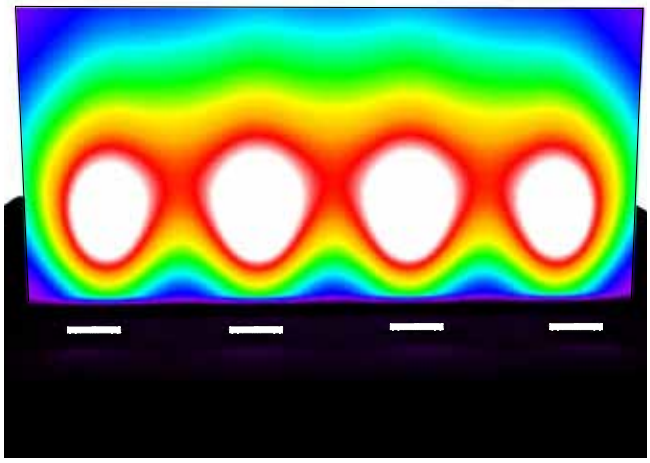


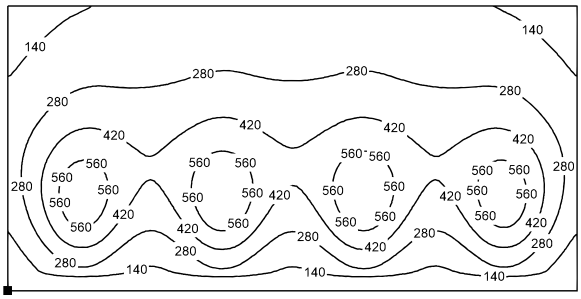

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1238 | 294 | 2171 | 0.238 |



## Case study 1: Wall 12m x 6m D = 1.5m

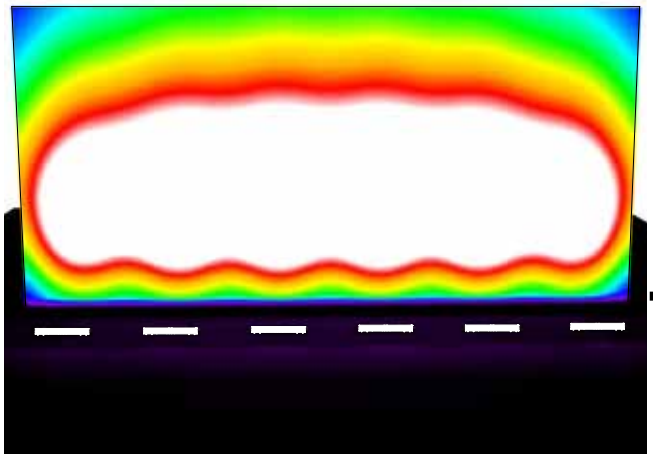
**Minimum configuration**: 4 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **2**m.

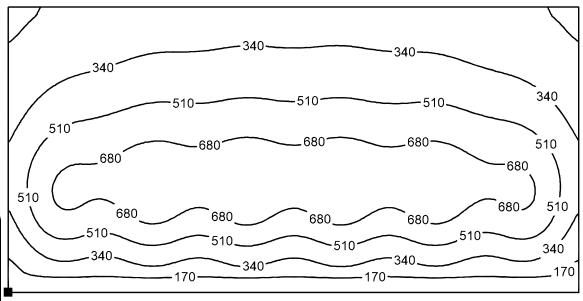





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 371 | 126 | 685 | 0.341 |

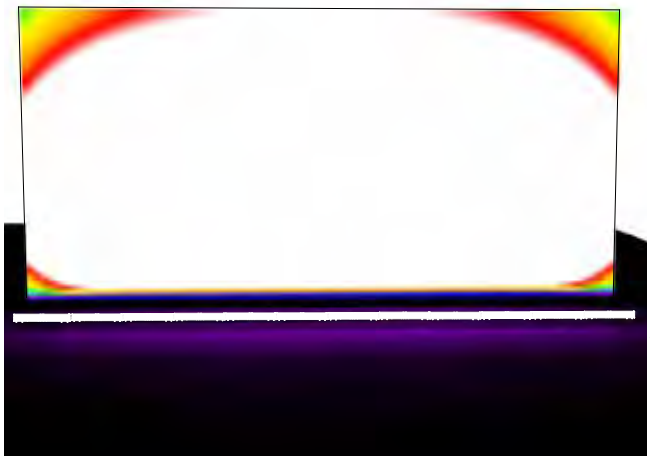
**Medium configuration**: 6 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **1**m.

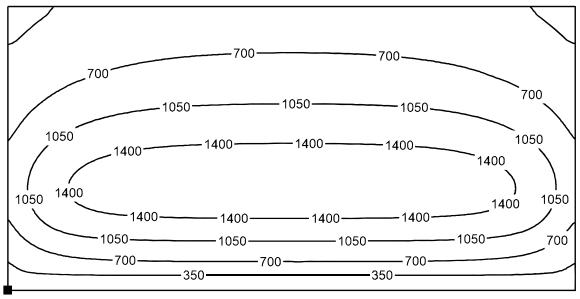




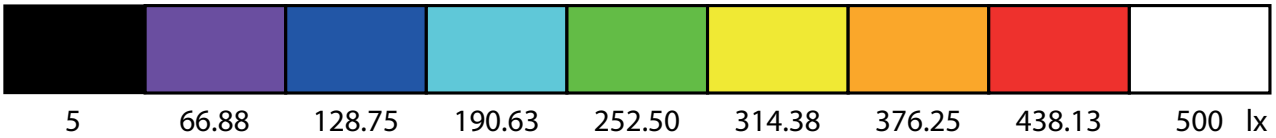

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 533 | 197 | 822 | 0.370 |

**Best configuration**: 12 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **0**m.



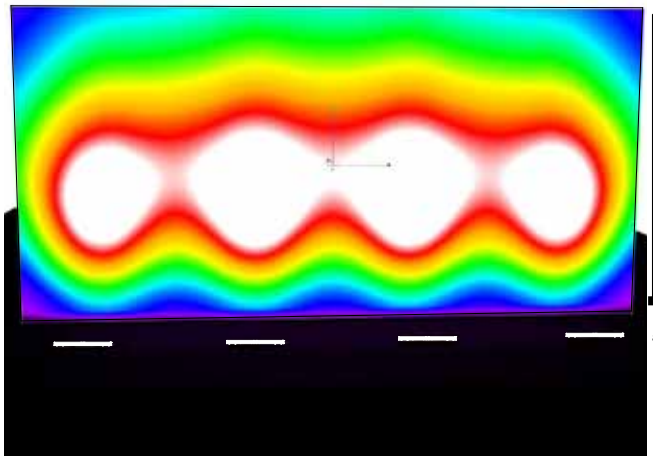


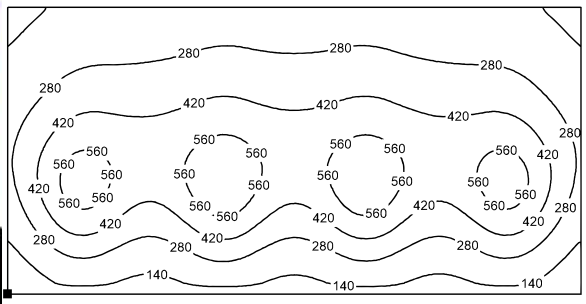

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1078 | 381 | 1625 | 0.353 |



## Case study 1: Wall 12m x 6m D = 2 m

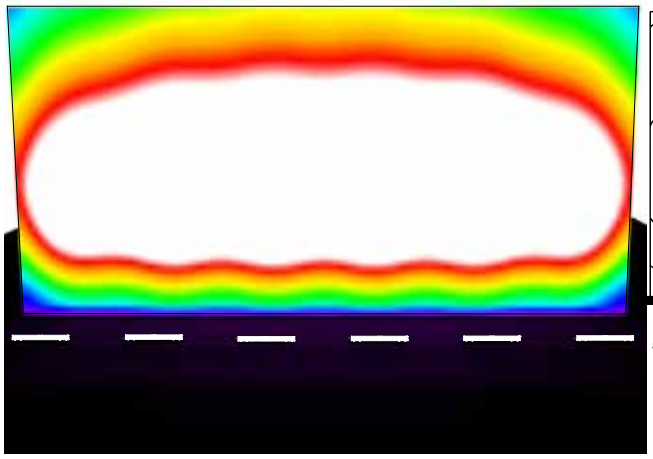
**Minimum configuration**: 4 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **2**m.

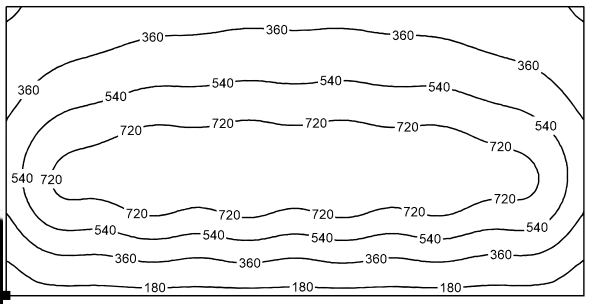





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 399 | 136 | 675 | 0.341 |

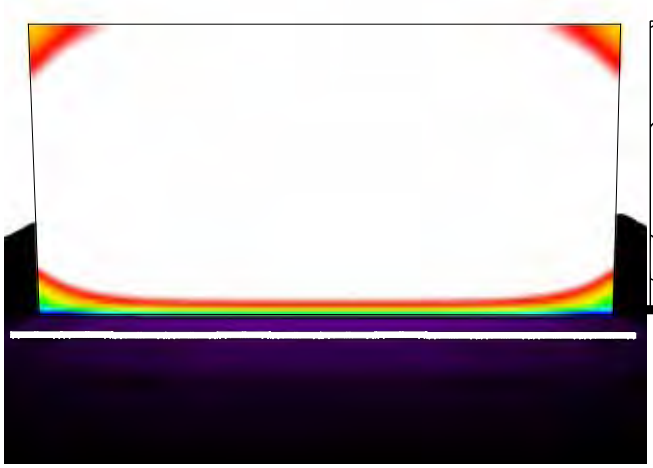
**Medium configuration**: 6 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **1**m.

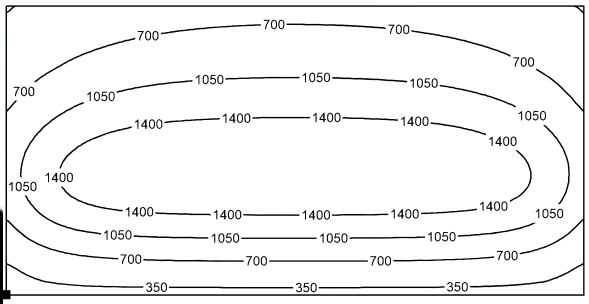




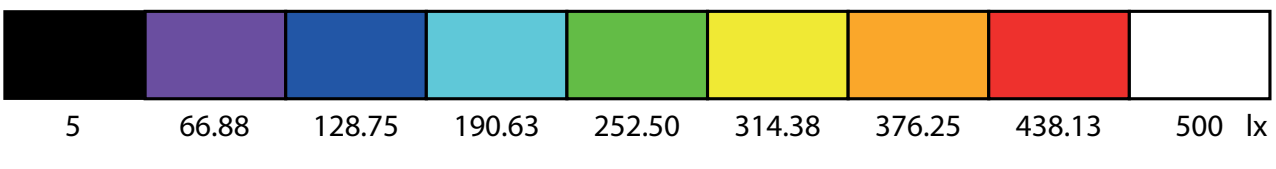

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 530 | 223 | 895 | 0.378 |

**Best configuration**: 12 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **0**m.



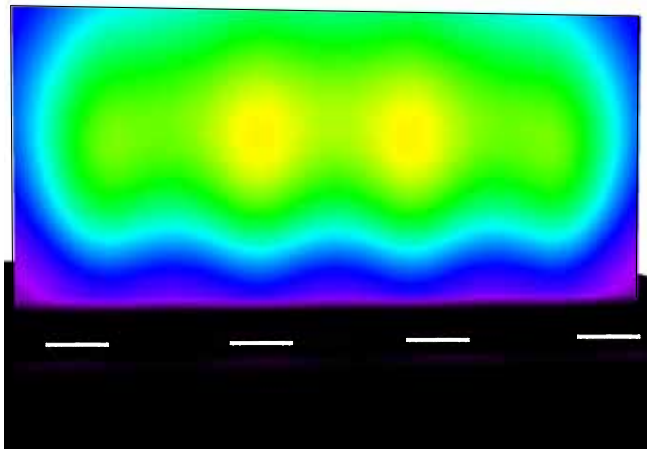


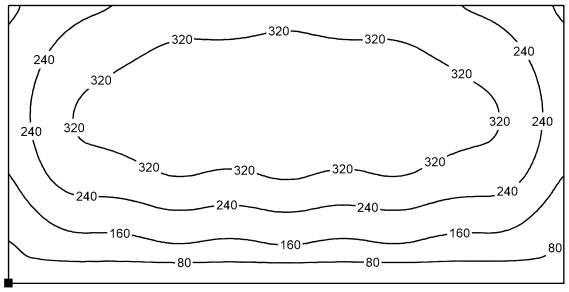

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 394 | 136 | 647 | 0.345 |



## Case study 1: Wall 12m x 6m D = 2.5 m

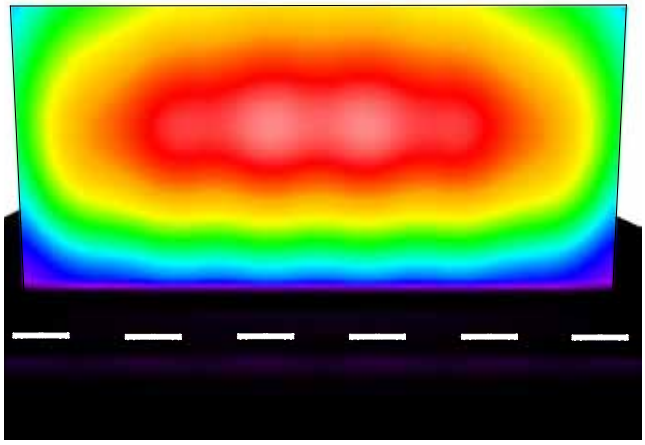
**Minimum configuration**:5 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **2**m.

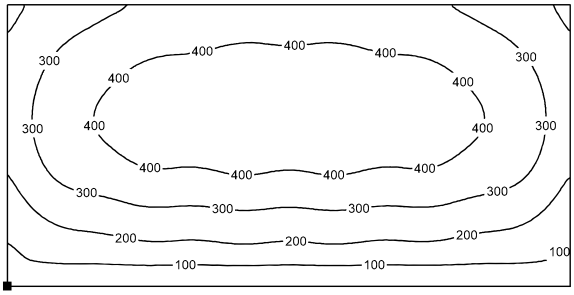





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 229 | 69 | 323 | 0.302 |

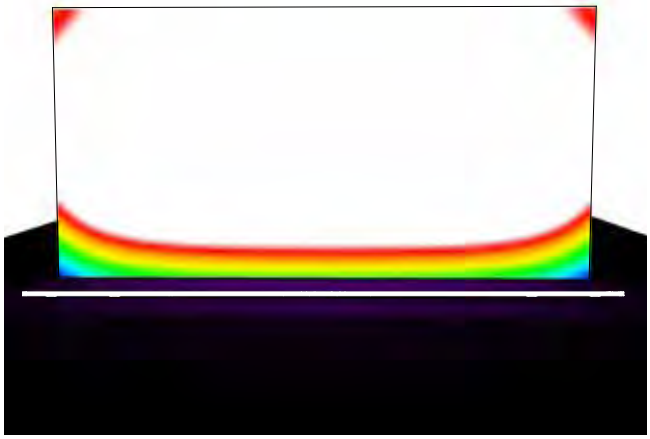
**Medium configuration**: 6 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **1**m.

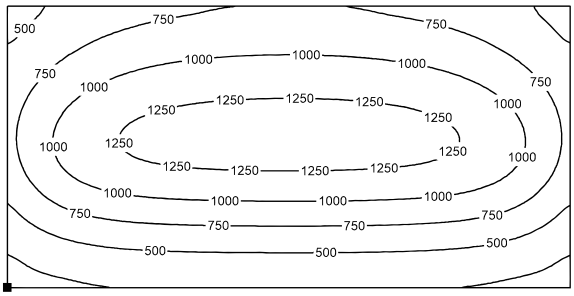





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 344 | 109 | 475 | 0.316 |

**Best configuration**: 12 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **0**m.



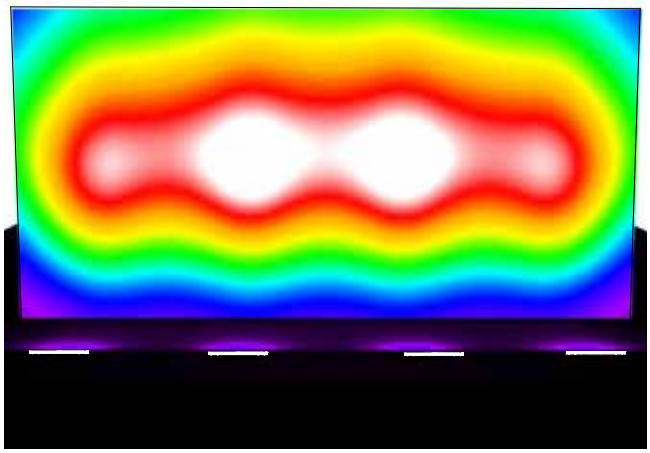


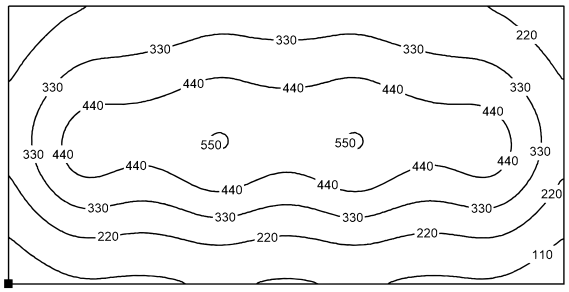

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 952 | 295 | 1380 | 0.307 |

5 66.88 128.75 190.63 252.50 314.38 376.25 438.13 500 lx

## Case study 1: Wall 12m x 6m D = 3m

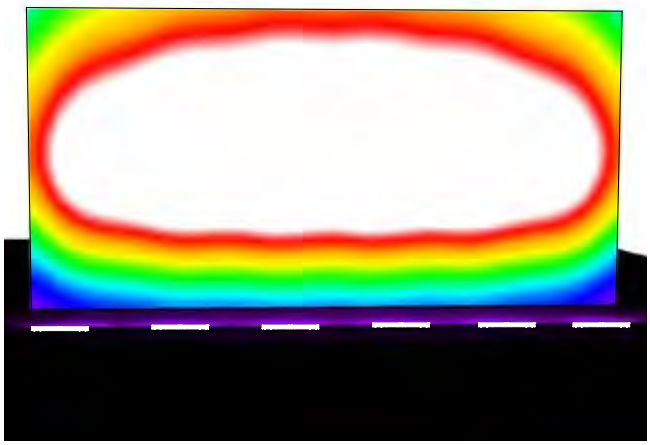
**Minimum configuration**: 4 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **2**m.

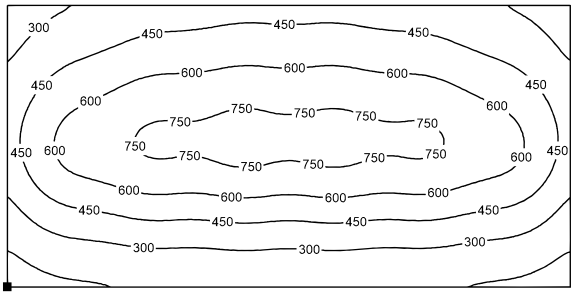





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 370 | 110 | 556 | 0.297 |

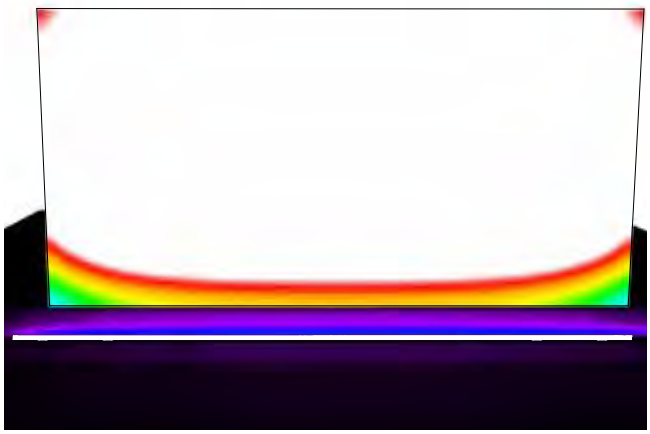
**Medium configuration**: 6 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **1**m.

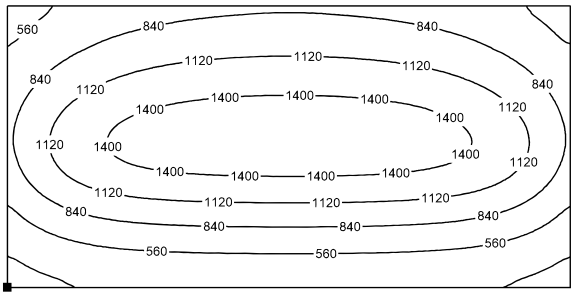




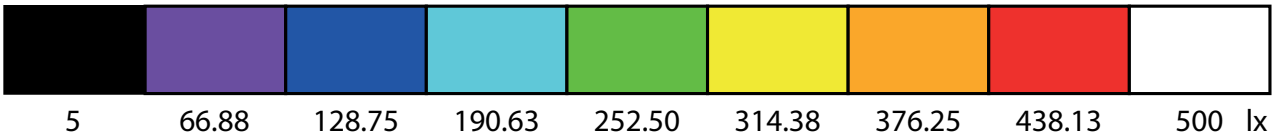

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 551 | 170 | 801 | 0.309 |

**Best configuration**:12 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **0**m.



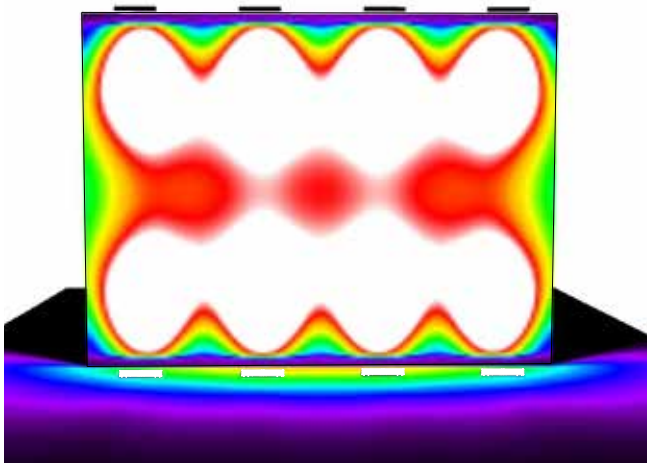


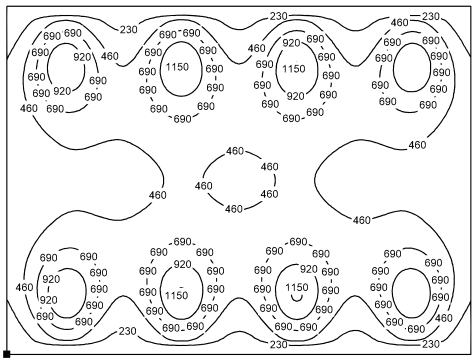

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1094 | 332 | 1573 | 0.304 |



## Case study 2: Wall 12m x 9m D = 1m

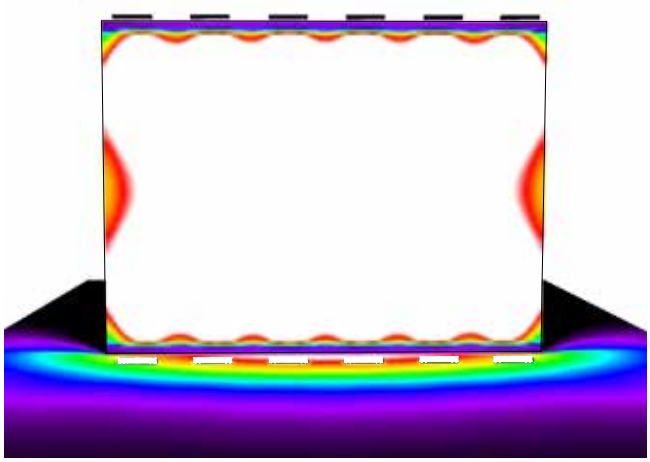
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

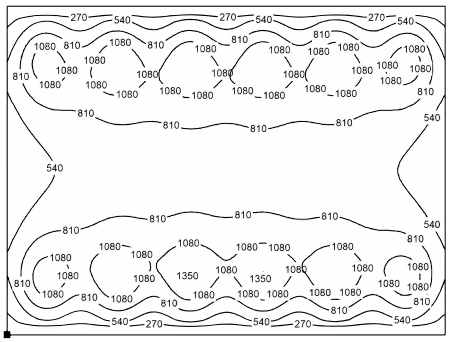




| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 596 | 209 | 1183 | 0.380 |

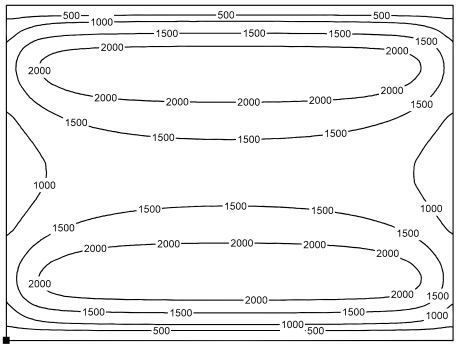
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.



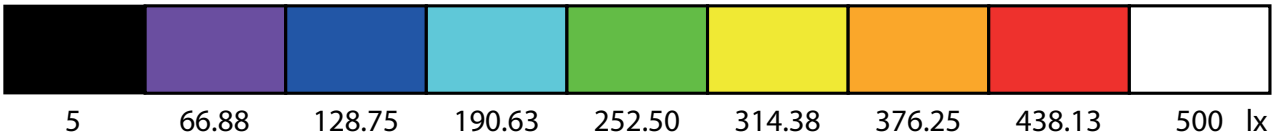


| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 876 | 447 | 1369 | 0.510 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.

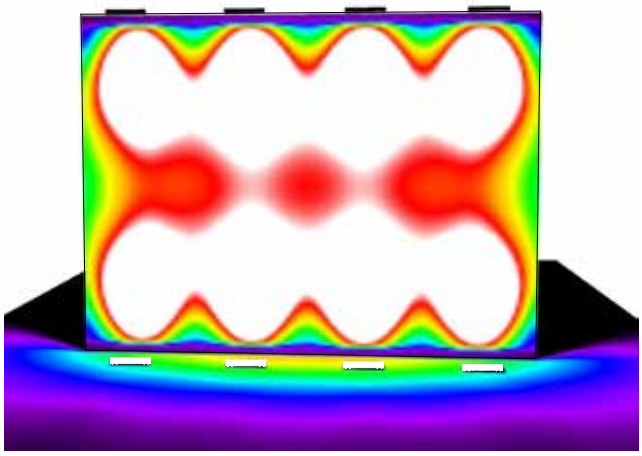


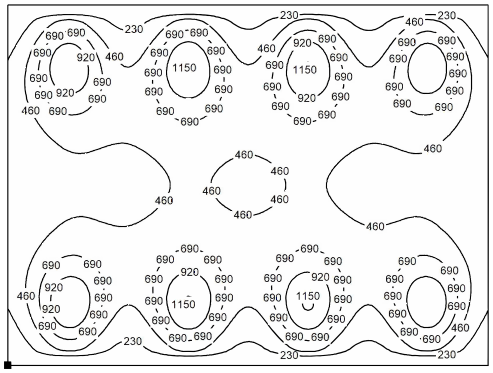
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1730 | 879 | 2443 | 0.508 |



## Case study 2: Wall 12m x 9m D = 1.5m

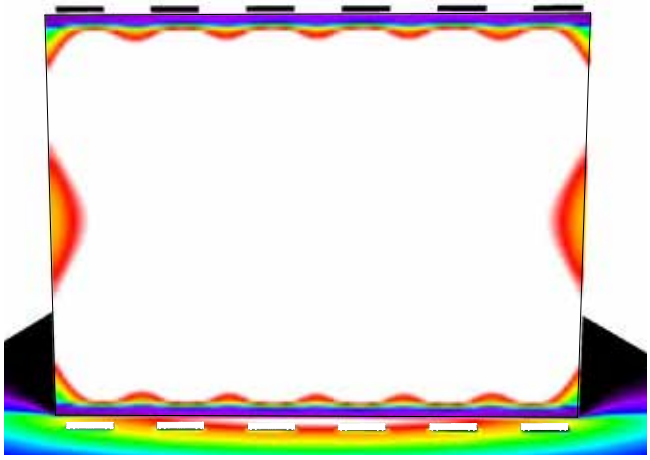
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

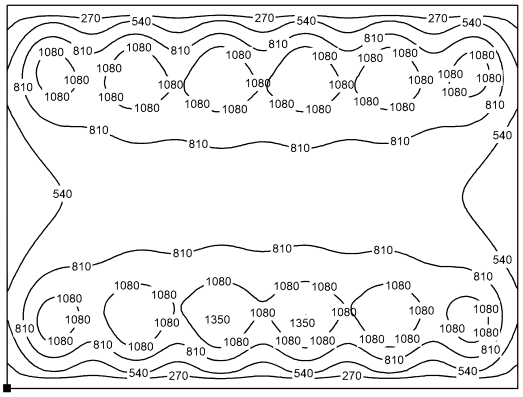




| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 596 | 209 | 1183 | 0.330 |

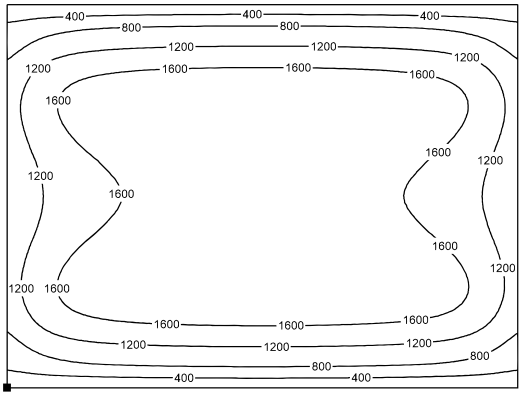
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.



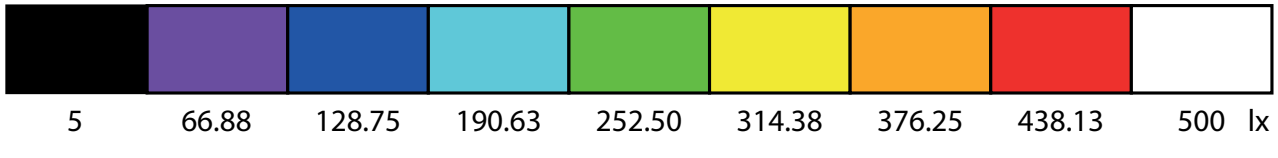


| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 875 | 447 | 1399 | 0.510 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.

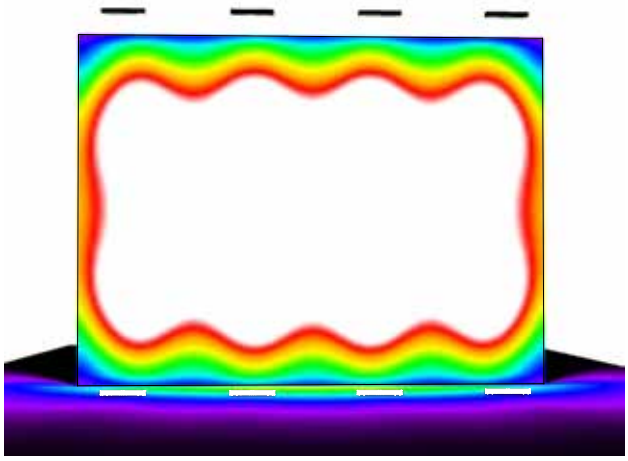


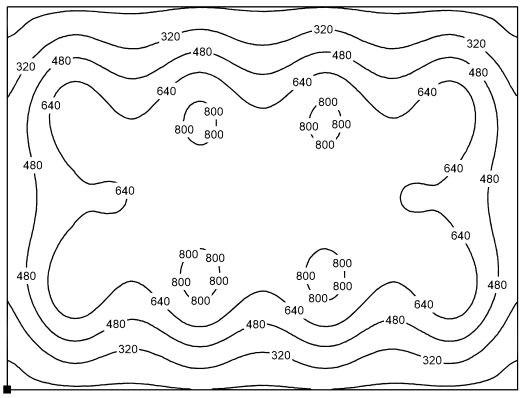
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1572 | 629 | 1997 | 0.400 |



## Case study 2: Wall 12m x 9m D = 2m

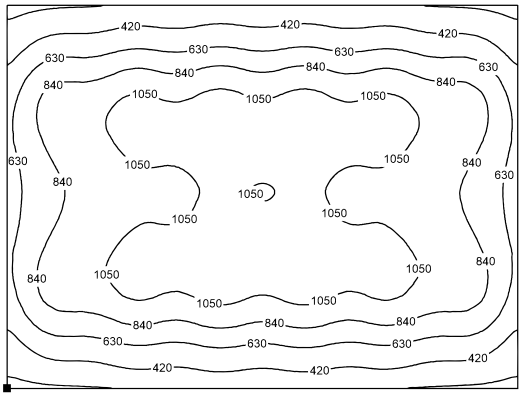
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.





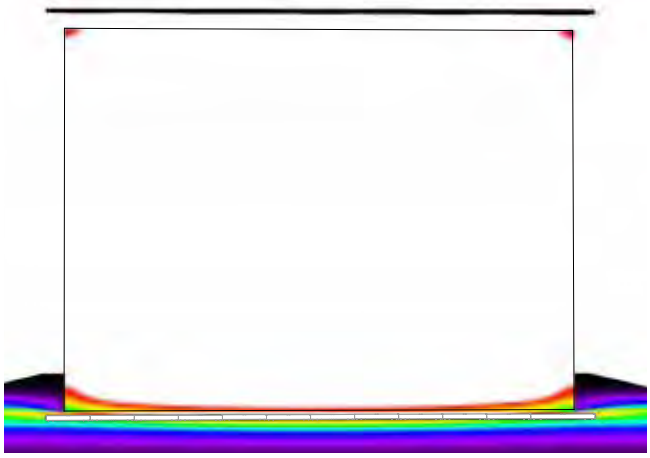

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 596 | 202 | 847 | 0.338 |

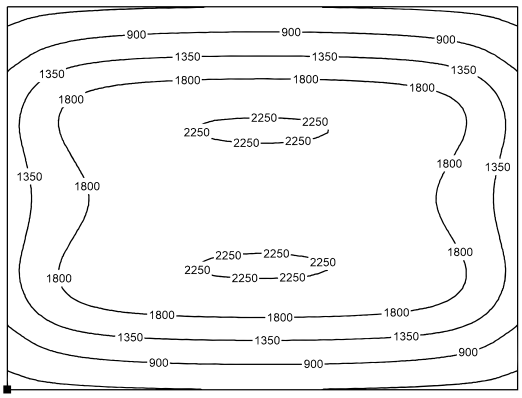
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.



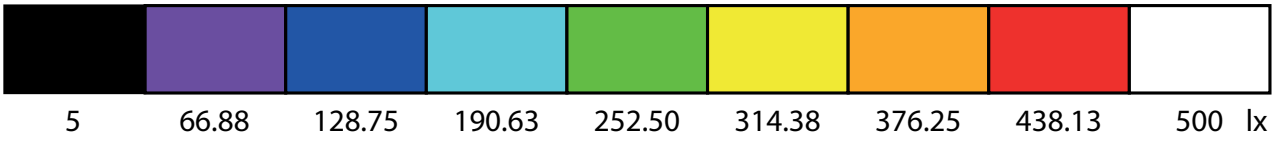

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 897 | 331 | 1174 | 0.362 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.



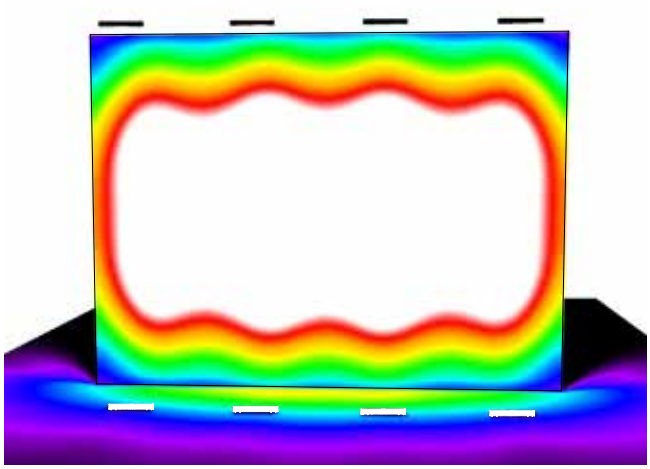


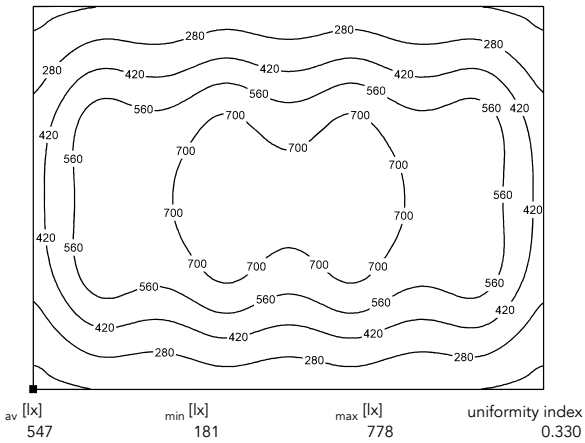

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1754 | 618 | 2291 | 0.392 |



## Case study 2: Wall 12m x 9 m D = 2.5m

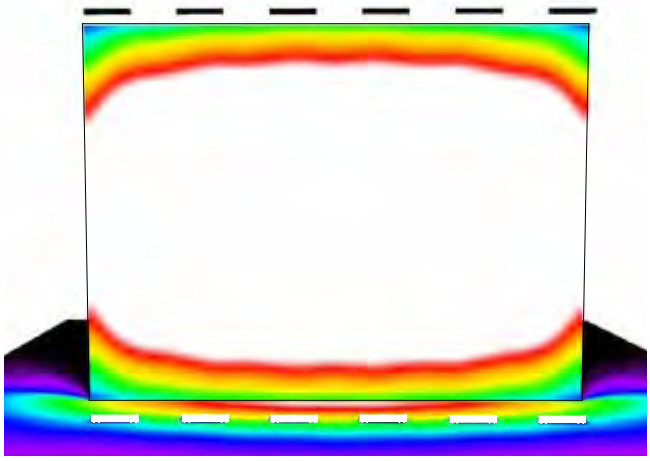
**Minimum configuration**: 4 pcs ECLCYC100 placed at the bottom with Fixture Spacing (**FS**) **2**m.

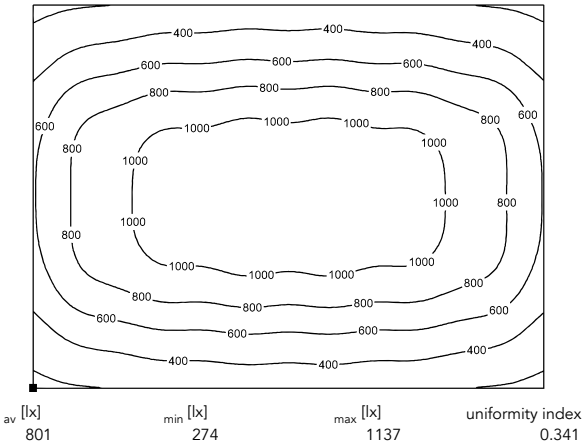





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 547 | 181 | 778 | 0.330 |

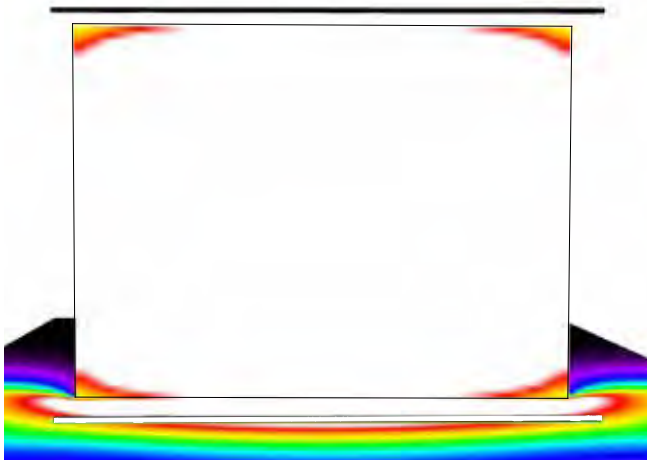
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.

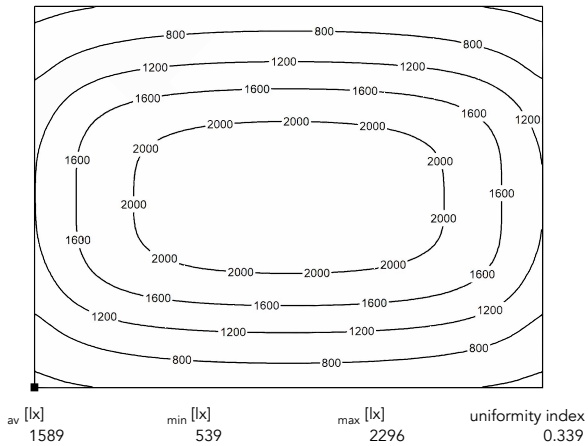




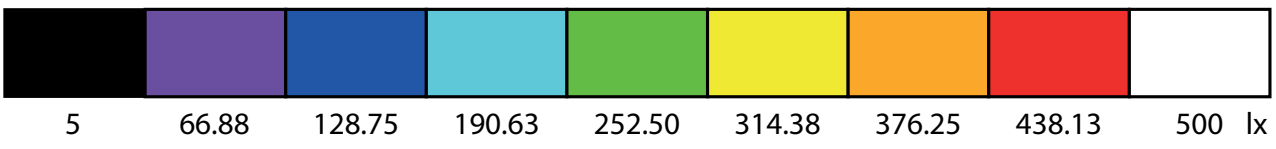

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 801 | 274 | 1137 | 0.341 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.



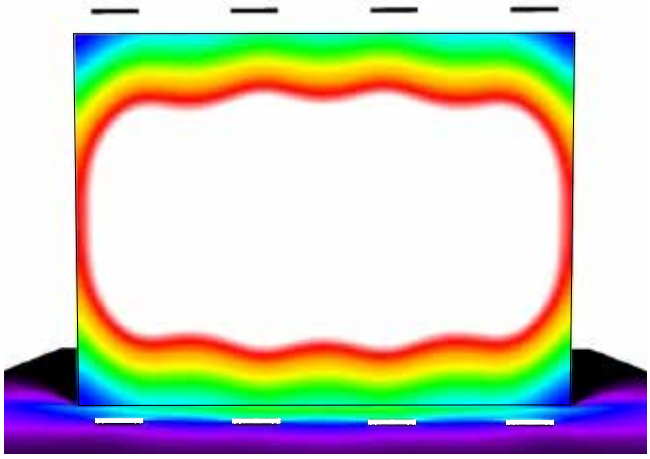


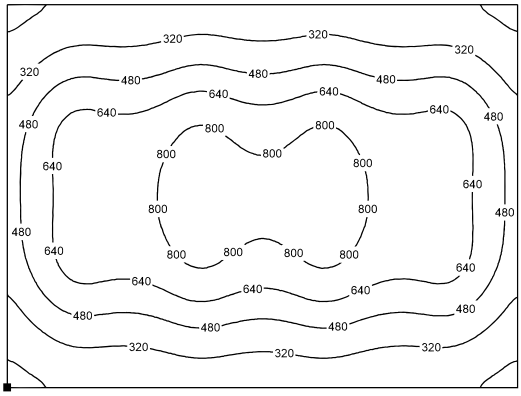

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1589 | 539 | 2296 | 0.339 |



## Case study 2: Wall 12m x 9 m D = 3m

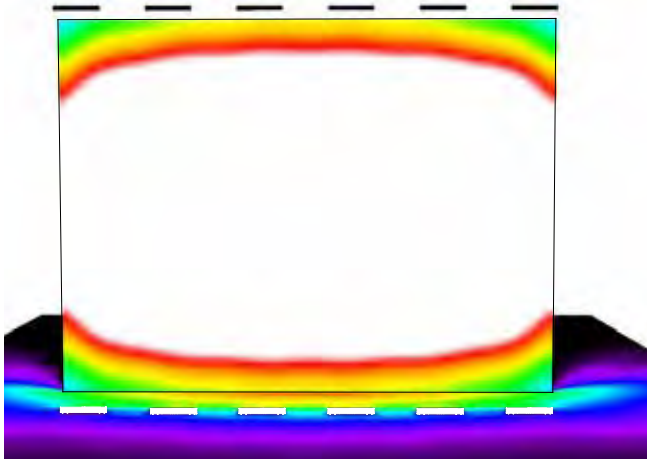
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

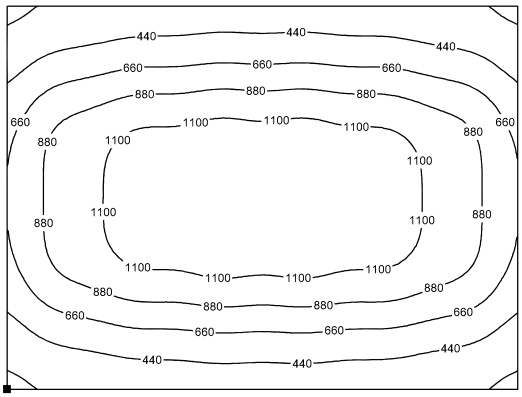





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 596 | 191 | 869 | 0.322 |

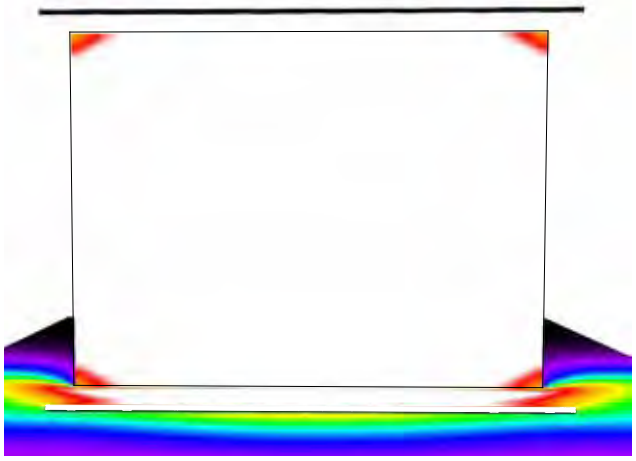
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.

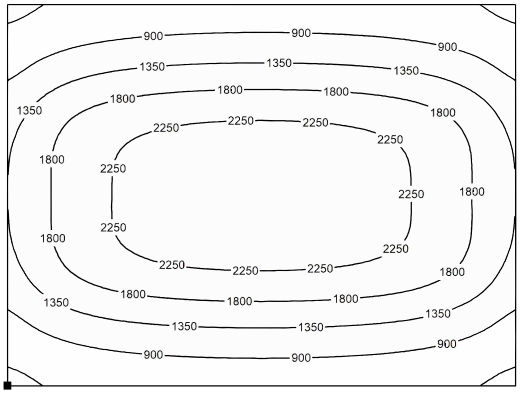




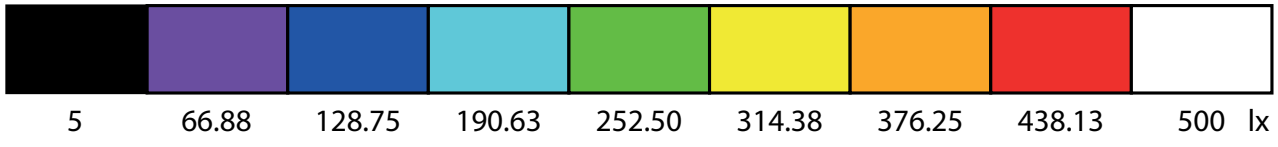

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 881 | 289 | 1275 | 0.328 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.



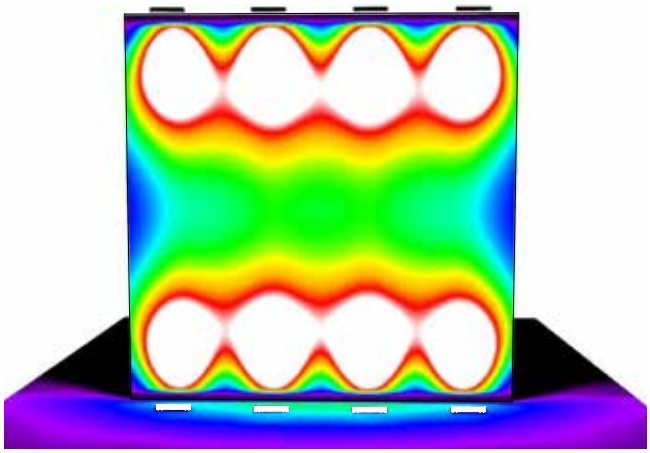


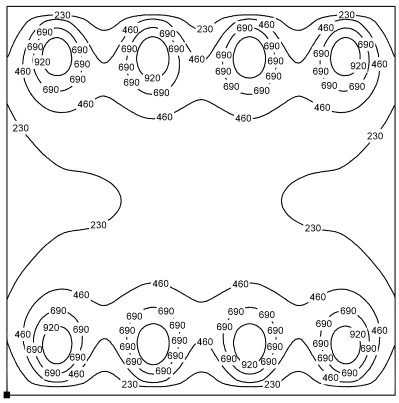

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1758 | 577 | 2528 | 0.329 |



## Case study 3: Wall 12m x 12m D = 1m

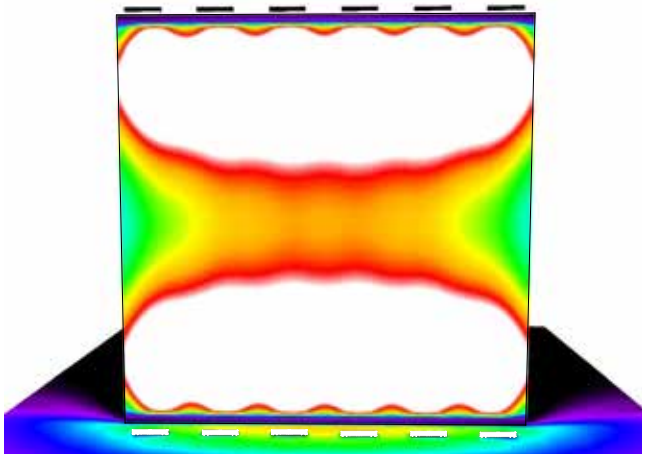
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

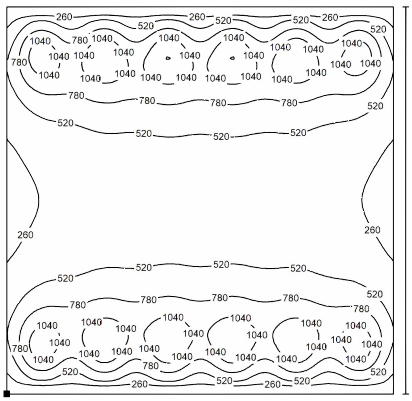




| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 454 | 154 | 1146 | 0.339 |

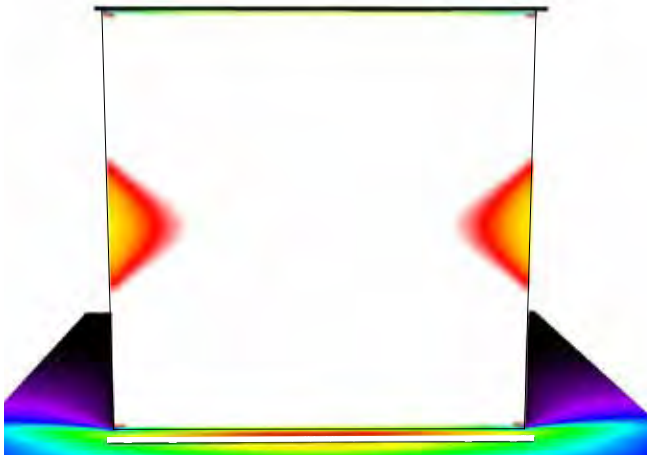
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.

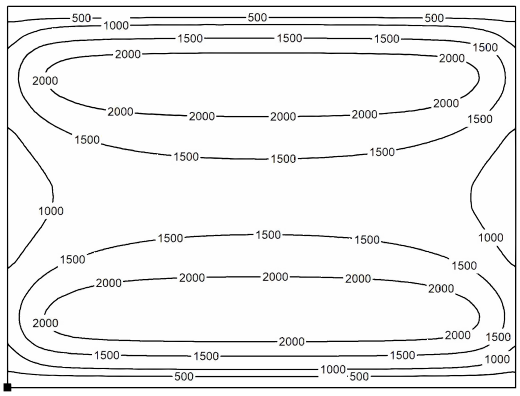




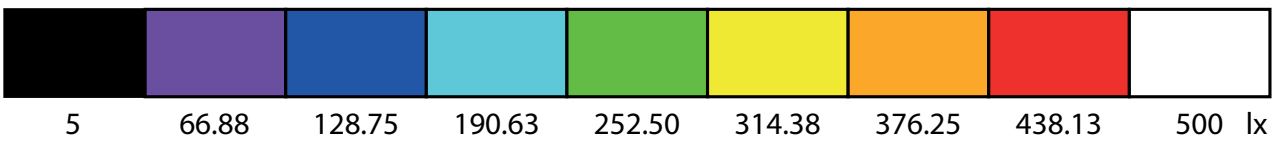
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 656 | 235 | 1314 | 0.353 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.



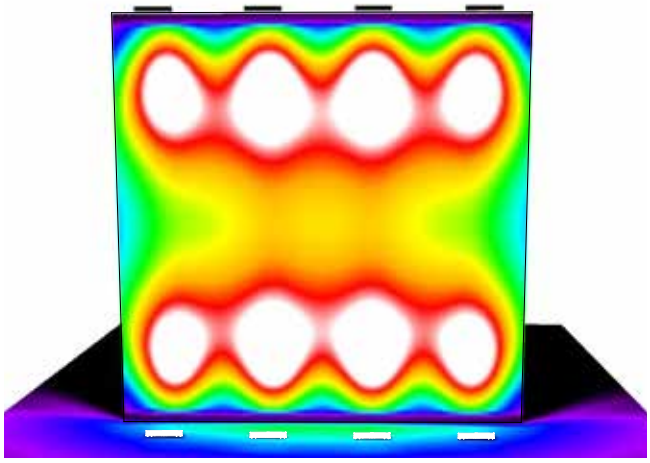


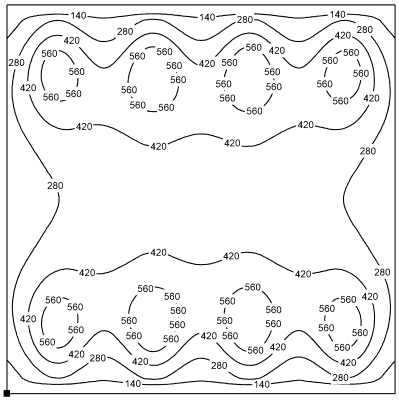
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1311 | 476 | 2293 | 0.363 |



## Case study 3: Wall 12m x 12m D = 1.5m

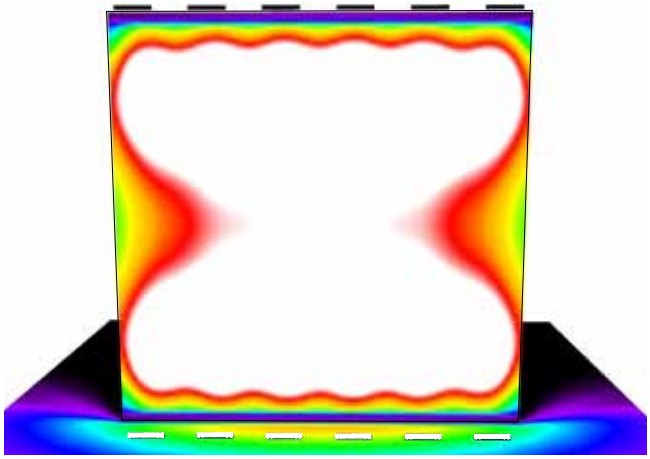
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

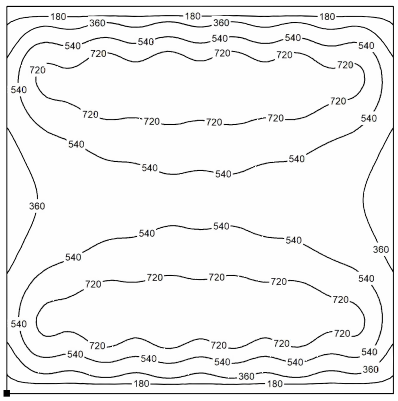




| $_{av}$ [lx] | $_{min}$ [lx] | $_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 417 | 164 | 628 | 0.394 |

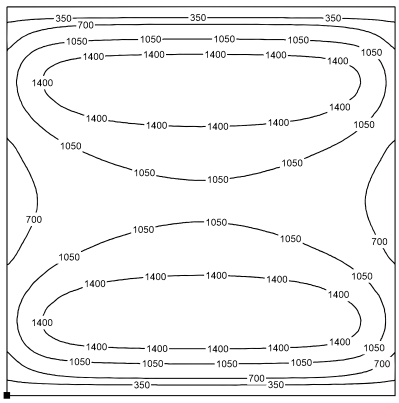
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.



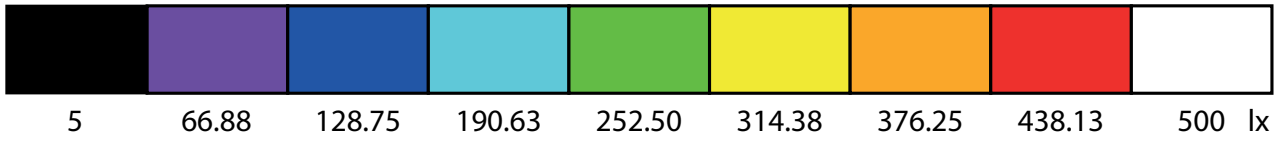


| $_{av}$ [lx] | $_{min}$ [lx] | $_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 613 | 283 | 899 | 0.461 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m..

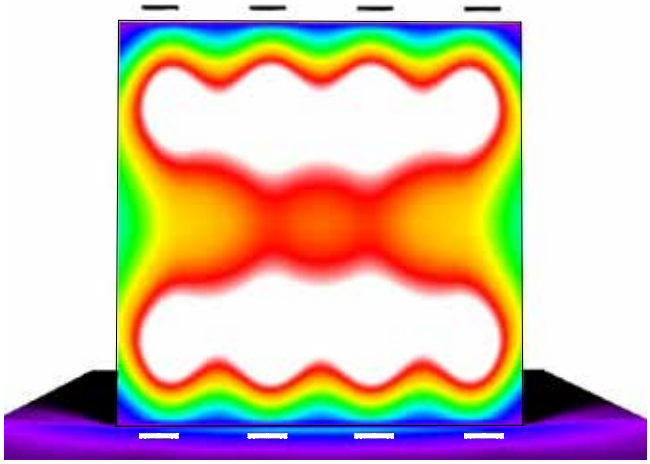


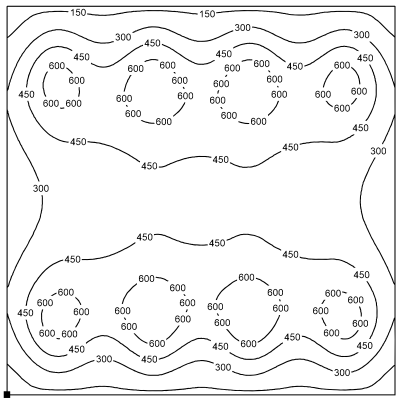
| $_{av}$ [lx] | $_{min}$ [lx] | $_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1216 | 553 | 1732 | 0.454 |



## Case study 3: Wall 12m x 12 m D = 2m

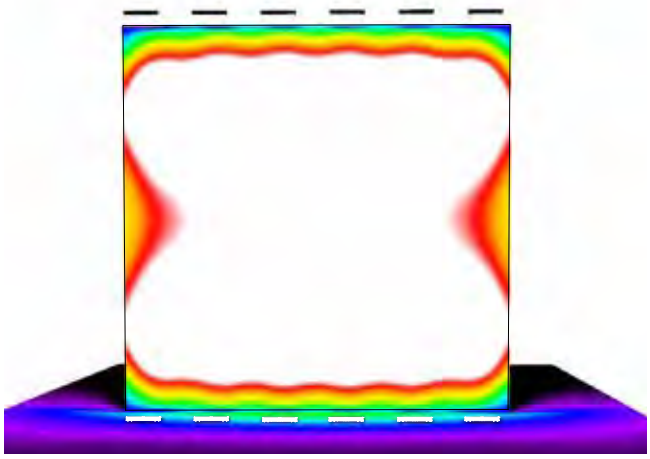
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

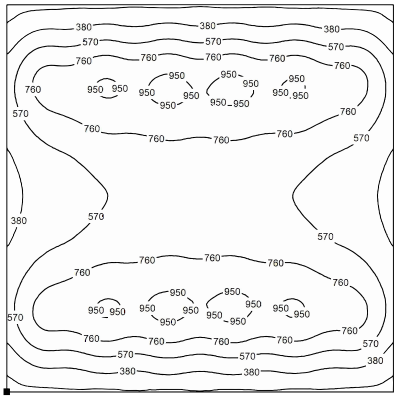




| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 496 | 170 | 741 | 0.366 |

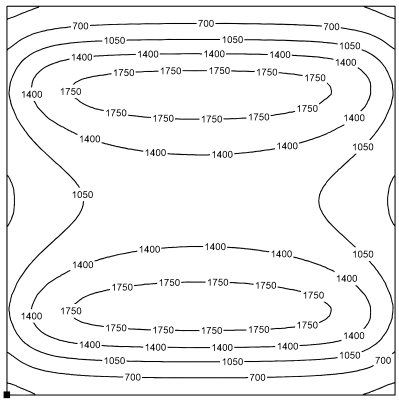
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.



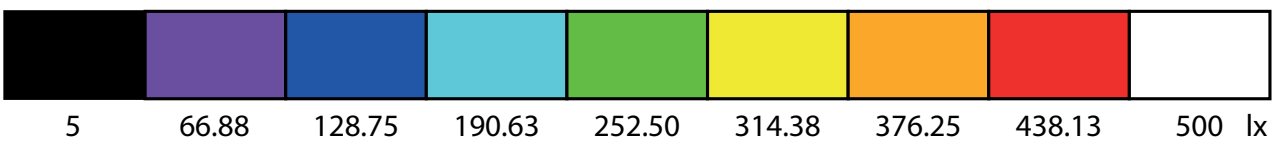


| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 690 | 281 | 1005 | 0.407 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.

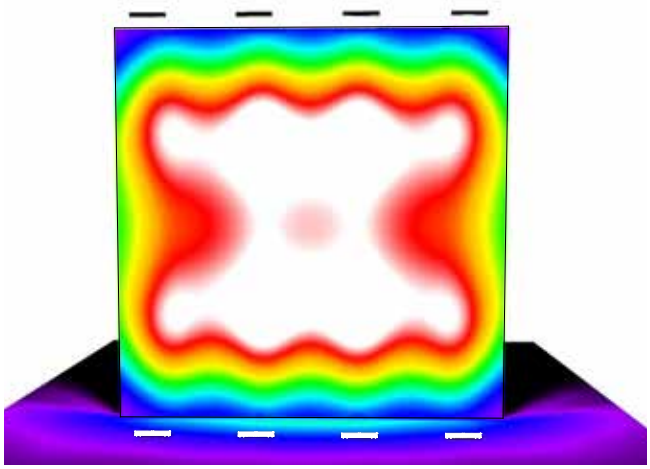


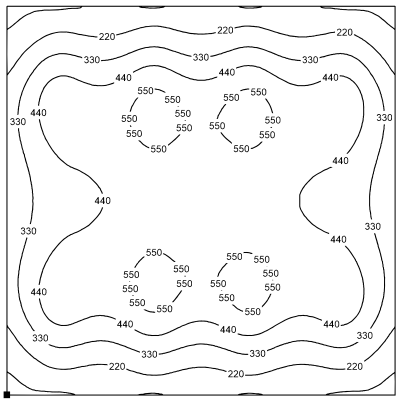
| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1361 | 529 | 1936 | 0.388 |



## Case study 3: Wall 12m x 12 m D = 2.5m

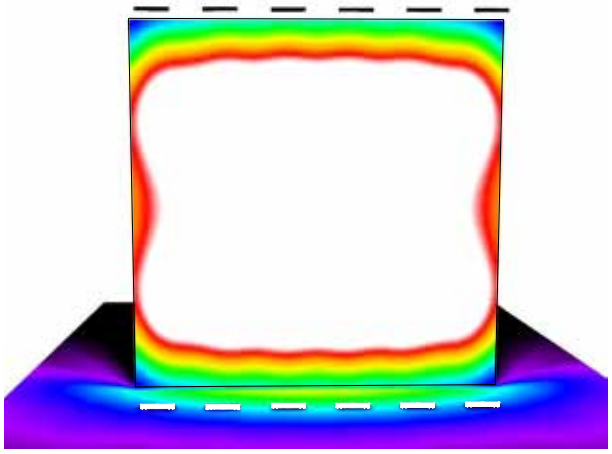
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

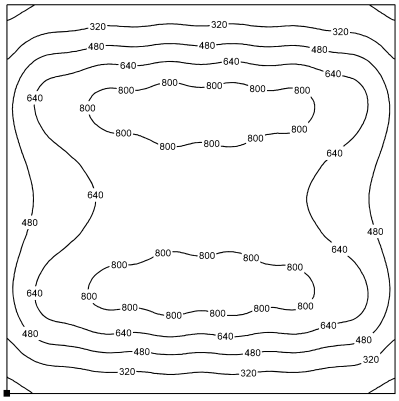





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 427 | 138 | 596 | 0.323 |

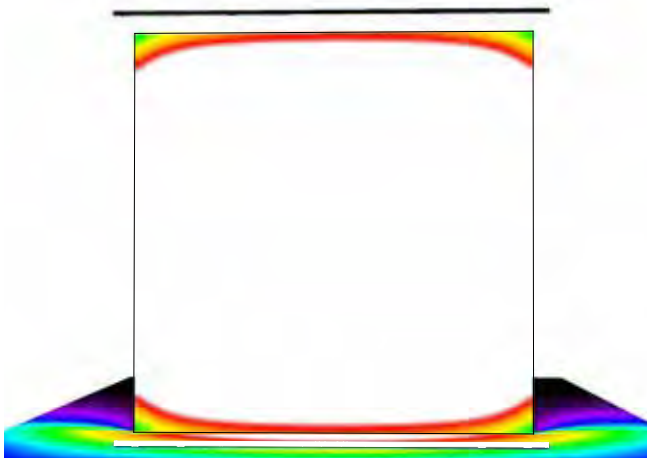
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.

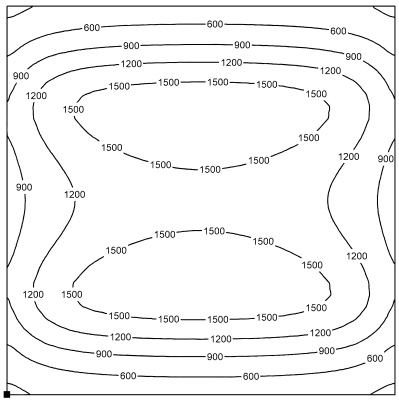




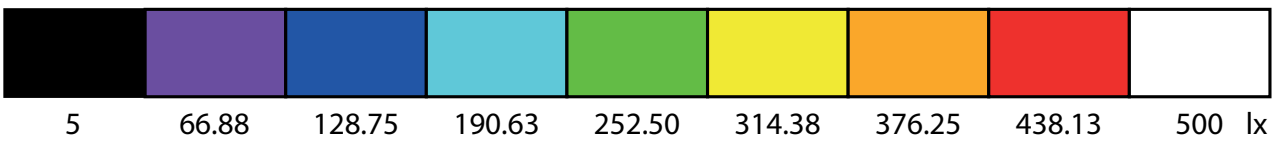

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 647 | 221 | 883 | 0.342 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.



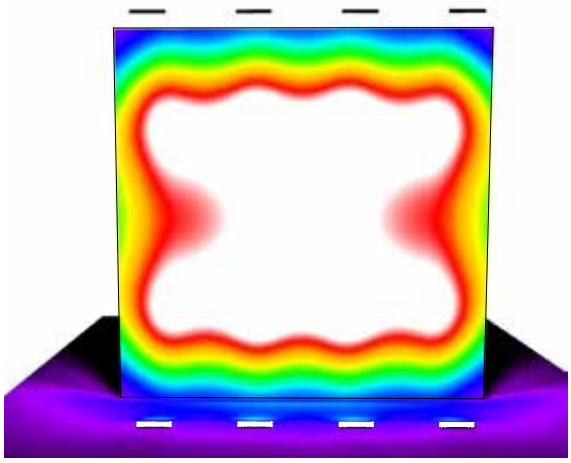


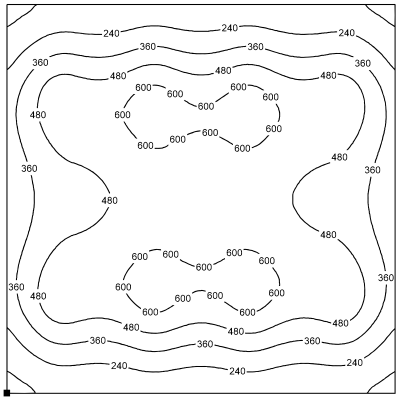

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1273 | 427 | 1727 | 0.336 |



## Case study 3: Wall 12m x 12 m D = 3m

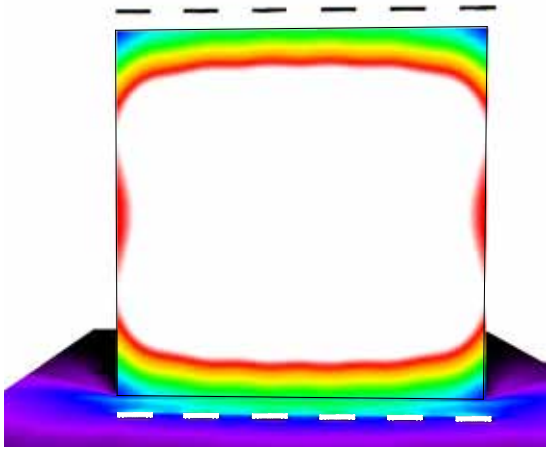
**Minimum configuration**: 8 pcs ECLCYC100 (placed 4 top + 4 bottom) with Fixture Spacing (**FS**) **2**m.

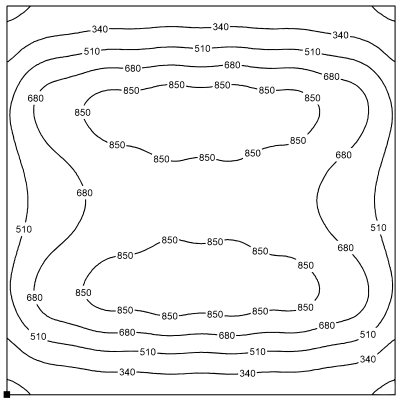





| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 459 | 148 | 662 | 0.316 |

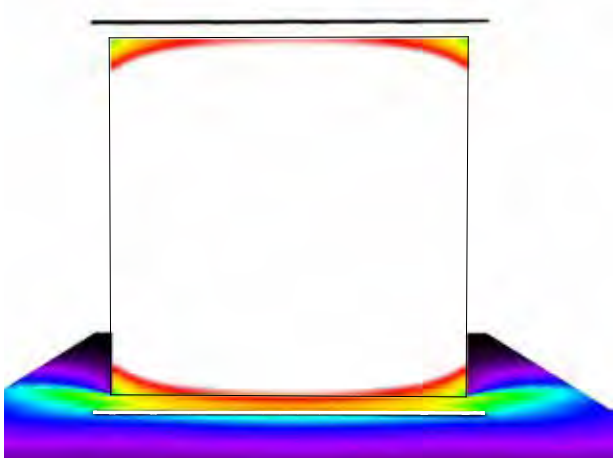
**Medium configuration**: 12 pcs ECLCYC100 (placed 6 top + 6 bottom) with Fixture Spacing (**FS**) **1**m.

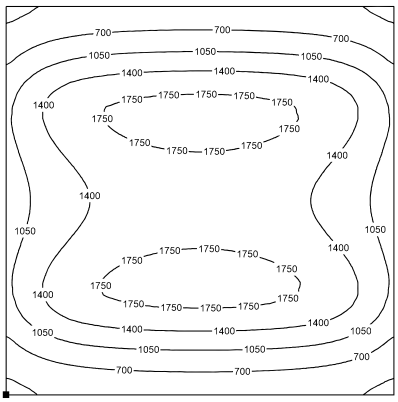




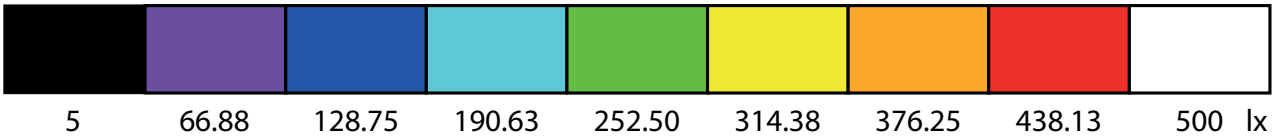

| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 697 | 226 | 954 | 0.324 |

**Best configuration**: 24 pcs ECLCYC100 (placed 12 top + 12 bottom) with Fixture Spacing (**FS**) **0**m.






| $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | uniformity index |
|---|---|---|---|
| 1374 | 441 | 1892 | 0.321 |



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