



LITESTAR 4D v. 3.00

OXL File Specifications

March 2015

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Summary

General characteristics	3
Structure	4
Header.....	4
Data.....	5
Data - Luminaire: Product identity, BBoxDims, LuminousArea	6
Data - Luminaire: LampList	7
Data - Luminaire: Photometry	8
Data - Luminaire: MeshList, MaterialList	9
Hierarchy.....	10
Example of parent elements	11
TechSheet.....	12
OXL Mesh Specification	17
Introduction.....	17
Fields description	18
Example of a polygonal cube with a single surface	20
Excel Bridge file.....	23



General characteristics

The OXL/OXC files are pure text files, containing information related to a lighting device in its entirety and technical complexity, and are designed to associate the simple and self-explanatory characteristics typical of the XML format.

Two types of file are foreseen:

- ▶ the first has .OXL extension and associates photometric data with technical-commercial information
- ▶ the second with .OXC extension contains exclusively technical-commercial information (to be used if no photometry has been associated with the product)

In both cases the files contain a copy of all information regarding a lighting device, including any external files in binary form. Therefore they provide commercial information, photometric curves, emitting surfaces, object geometries and all the technical details required, such as images, designs and texts.

The file is subdivided into four main parts:

- ▶ Header
- ▶ Data
- ▶ Hierarchy
- ▶ TechSheet

The inserted data has no particular limit, therefore the structure detail will define the individual fields.

LitePack	
Header	
LitepackVersion	0.0003
CreatorInfo	FotomDati 11:47:58 Nov 10 2010
ProductIdentity	
Constraints	
Flags	
Data	
LuminaireList	
MeshList	
	Mesh
MaterialList	
Hierarchy	
Node id=200 parent=00000000	
TechSheet	
Ver	1
Product	
Device	

Notes



Structure

Header

The *Header* section contains all elements that allow manufacturer and product identification:

CreatorInfo and *LitepackVersion* contain the information related to the version and file creation modes.

ProductIdentity

▶ **Manufacturer**

- *ManufacturerName*: name of the manufacturer
- *ManufacturerCode*: manufacturer's OxyTech code
- *ManufacturerShortName*: manufacturer's short name contained in the Oxydata.MDB

▶ **ProductFamily**: product model

▶ **ProductCode**: product code

▶ **ProductName**: short product description

Constraints: this concerns the limits placed on the object/luminaire, i.e. the maximum rotations in space

Flags this is the type of installation (ceiling, wall, floor etc.)

Notes

The version is not yet fully complete in all its details and notably those specific to the absolute values photometric curve, mainly used for LEDs.

Constraints and *Flags* are luminaire attributes, that have however not yet been activated

Header

LitepackVersion	0.0003
CreatorInfo	FotomDati 11:47:58 Nov 10 2010
ProductIdentity	
Manufacturer	
ManufacturerName	M SpA
ManufacturerCode	96
ManufacturerShortName	M_Luce
ProductFamily	TRIF
ProductCode	2045
ProductName	2045 - TRIF - 3x55W 2GX13 FL
Constraints	
Flags	



Structure

Data

The *Data* section contains the product elements, such as technical, photometric and geometrical data:

- ▶ **Luminaire list - Luminaire:** this contains the details of the photometric curves connected to the product:
 - *Id*: this is the photometry identification code
 - *Productidentity*: photometry identification data (*ManufacturerName*, *ManufacturerCode*, *ManufacturerShortName*, *ProductFamily*, *ProductCode*, *ProductName*)
 - *Shape*: bounding box shape
 - *BBoxDims*: dimensions of the bounding box (*WidthC0C180*, *LengthC90C270*, *Height*)
 - *LuminousArea*: shape and dimensions of the luminous area (*Shape*, *BBoxDims*, *LowerArea*, *C0Area*, *C90Area*, *C180Area*, *Area76*)
 - *Lamp List*: data related to the connected lamps (*ProductIdentity*, *Ilcos*, *Flux*, *Power*, *Socket*, *Dimensions*, *ColorTemperature*, *ColorRenderingIndexRa*, *LuminousEfficacy*, *Life*, *Source*). The *Quantity* field shows the number of connected lamps of that type
 - *Photometry*: photometric data (*PhotometryCode*, *PhotometryDescription*, *Operator*, *TestLab*, *Date*, *PhotometryType*, *SymmetryType*, *FluxUsed*, *MeasurementConditions*, *MeasurementMatrix*). *MeasurementConditions* contains the data related to the measurement conditions, while *MeasurementMatrix* contains the actual photometric data in table form

- ▶ **MeshList:** this contains the data related to the product geometry (3D model). If this section is missing rectangular or cylindrical models will be created ad hoc according to the bounding box dimensions
 - *Mesh* (*Id*, *Vertices*, *Normals*, *UVs*, *VertPerFace*, *Faces*, *SurfaceFaceID*, *Surfaces*). *Id* is the mesh identification code.
- ▶ **MaterialList** – contains the data for identifying the materials used in the product
 - *MaterialTypeLambert* identifies the data related to the Lambert meshes (*Id*, *Name*, *Global*, *Texture*, *Kd*). *Id* is the material identification code.
 - *MaterialTypeEmitter* identifies the data related to the “emitting” meshes (luminous surfaces). (*Id*, *Name*, *Global*, *Texture*, *Color*).

Each of these parts can be repeated and, apart from *LuminaireList* which must contain at least one photometric curve to be valid, the others can be empty. Should the *LuminaireList* be empty the file would be a .OXC.

Notes

In *Photometry-MeasurementConditions* the lamp lists refer to the lamps used for the measurement and may therefore be different from those present in *Data-Luminaire-Lamplist-Lamps* and *Techsheet-Device-Lamps*



Structure

Data - Luminaire: Product identity, BBoxDims, LuminousArea

Data	
LuminaireList	
Luminaire	
id	100
ProductIdentity	
Manufacturer	
ProductFamily	TRIF
ProductCode	2045
ProductName	2045 - TRIF - 3x55W 2GX13 FL
Shape	rectangular
BBoxDims	
WidthC0C180	0.600000
LengthC90C270	0.700000
Height	0.070000
LuminousArea	
Shape	rectangular
BBoxDims	
WidthC0C180	0.600000
LengthC90C270	0.700000
Height	0.070000
LowerArea	0.420000
C0Area	0.049000
C90Area	0.042000
C180Area	0.049000
C270Area	0.042000
Area76	0.149152

Notes

The *id* is used in the **Hierarchy** section to link the various elements to each other (see the relative paragraph)



Structure

Data - Luminaire: LampList

Notes

[-] LampList	
[-] Lamp	
quantity	3
[-] ProductIdentity	
[-] Manufacturer	
ManufacturerNar	Osram
ManufacturerCoc	96
ManufacturerShc	OSRAMLAMP
ProductCode	FC 55 W/830
ProductName	LUMILUX® T5 FC® 55W FSC 2GX13 230V 50Hz
Ilcos	FS
Flux	4200
Power	55
Socket	2GX13
Dimensions	D=16 L=300
ColorTemperature	3000
ColorRenderingIn	80
LuminousEfficac	76
Life	16000
Source	CAT



Structure

Data - Luminaire: Photometry

Notes

Photometry	
PhotometryCode	2045_TRIF
PhotometryDescr	TRIF - 3x55W FC 2GX13
Operator	Studio
TestLab	M Spa
Date	
PhotometryType	internal
SymmetryType	asymmetricCG
FluxUsed	12600.000000
MeasurementConditions	
Distance	0.000000
Temperature	25.000000
Humidity	60.000000
Voltage	0.000000
Current	0.000000
Power	0.000000
PowerFactor	1.000000
Frequency	50.000000
Voltage2	0.000000
Current2	0.000000
Power2	0.000000
PowerFactor2	1.000000
Frequency2	50.000000
Photocell	
Notes	3 * FC 55 W/830 = 12600 lm
LampPosition	
LampList	
MeasurementMatrix	



Structure

Data - Luminaire: MeshList, MaterialList

[-] MeshList	
[-] Mesh	
Id	237230464
+ Vertices	size=360
+ Normals	size=1080
+ UVs	size=1080
+ VertPerFace	size=1080
+ Faces	
+ SurfaceFaceID	size=286
+ Surfaces	
[-] MaterialList	
[-] MaterialTypeLambert	
Id	647465304
Name	material82
Global	1
+ Texture	
Kd	0.328000
[-] MaterialTypeEmitter	
Id	237230632
Name	material83
Global	1
+ Texture	
Color	3 1.000000 1.000000 1.000000

Notes

The *id* is used in the **Hierarchy** section to link the various elements to each other (see the relative paragraph)



Structure

Hierarchy

The *Hierarchy* section contains the data that allows different file elements to be linked to each other:

- ▶ **Node:** contains details of the different links:
 - *Id:* identification code of the individual elements
 - *Parent:* parent level of the various elements
 - *Name:* name of the elements

- *Transform:* regards the transformation matrix of the luminaire part
- *Geom:* regards the mesh and materials present in the 3D model
- *LuminaireData:* data related to the alternative photometries (e.g. luminaire with different lamp positions). *EmissionCenter* represents the position of the photometric center.

Hierarchy

Node

id	200
parent	00000000
Name	Node0
Transform	
Translate	0 0 0
Rotate	0 0 0
TransformConstraints	
Geom	
MeshIDRef	237230464
MaterialLinks	
MaterialLink (2)	
MaterialIDRef	SurfaceName
1 647465304	Surface_0
2 237230632	Surface_1
LuminaireData	
EmissionCenter	0 0.06 0.043
LuminaireAlternatives	
LuminaireIDRefList	
LuminaireIDRef	
luminaireRef	100
DefaultLuminaire	0

Notes

For the moment only one line is managed, in the sense that the object is always single and one of its parts cannot rotate with respect to the others.

In the **MeshIDRef** field are inserted the mesh references shown in

```
<Data>
  <MeshList>
    <Id>
```

In the **MaterialIDRef** field are inserted the materials references shown in

```
<Data>
  <MaterialList>
    <MaterialTypeLambert>
      <Id>
    <MaterialTypeEmitter>
      <Id>
```

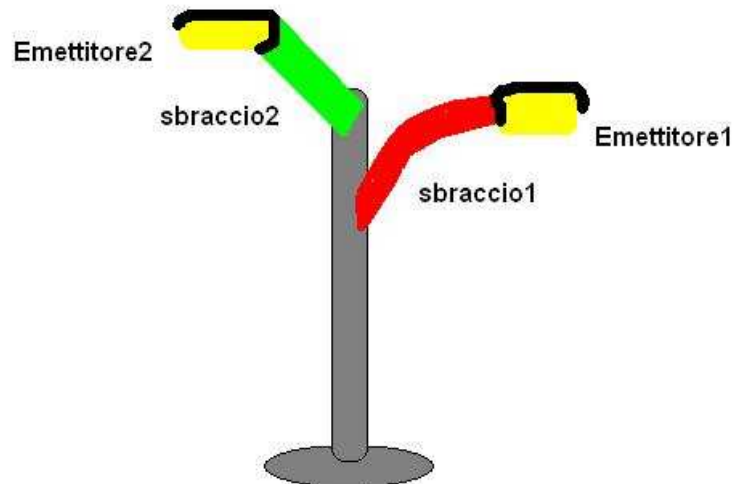
In the **luminaireRef** field are inserted the codes related to the photometries shown in the section

```
<LuminaireList>
  <Luminaire>
    <Id>
```

Structure

Example of parent elements

+ Header						
+ Data						
- Hierarchy						
- Node (5)						
	= id	= parent	⌂ Name	⌂ Transform	⌂ Geom	⌂ LuminaireAlter
1	200	00000000	piantana	+ Transform	+ Geom	
2	201	200	sbraccio1	+ Transform	+ Geom	
3	202	201	Emettitore1	+ Transform	+ Geom	+ LuminaireAlter
4	203	200	sbraccio2	+ Transform	+ Geom	
5	204	203	Emettitore2	+ Transform	+ Geom	+ LuminaireAlter



Note



Structure

TechSheet

The *TechSheet* section contains the technical and commercial data of the product:

- ▶ **Ver.** indicates the file version
- ▶ **Product:** contains the technical-commercial information of the product
 - *ProductDescription*: product description in the various languages
 - *ProductType*: product type in the various languages
 - *GrossWeight*
 - *NetWeight*
 - *Dimension*
 - *Volume*
 - *PcsForPack*
 - *WareHouseAvail*
 - *Models*: models in the various languages
 - *Applications*: fields of application for the product
 - *Families*
 - *Colors*
 - *Marks*
 - *Norms*
 - *ProductNote1-2-3-4*
 - *Images*: images (.JPG) linked to the product in base64 format
 - *Documents*: texts (.RTF) linked to the product in base64 format
- ▶ **Device:** contains the electrical information of the product
 - *Emergency*
 - *Battery*
 - *BatteryLife*
 - *BatteryIsteresys*
 - *InsulationClass*
 - *EANCod*
 - *Exposed_area*
 - *Vdt - LuminCIE - LuminDIN*
 - *IP_supplier - IP_body - IP_box*
 - *CutOff*
 - *IK*
 - *FireRes*
 - *SurfaceTemp*
 - *Optic*
 - *BallastLoss - BallastFactor*
 - *LED*
 - *SourceVoltage - SourceCurrent*
 - *BeamOpening*
 - *IPEA - ClassificationCertificate*
 - *Materials*
 - *Ballasts,*
- ▶ **Lamps:** contains the reference lamps
- ▶ **Reliefs:** contains the photometric characteristics of the measurement

Notes

The OXC files do not have a photometric parte, therefore *TechSheet* is the main section

The *Lamps*, field at the TechSheet section must be the same like the *data-luminaire-lamplist-lamps* area at the *Data* section.



Structure

TechSheet

- Ver 1
 - Product
 - ProductDescription
 - Descriptions
 - Description (25)
 - ProductType
 - Descriptions
 - Description (25)
 - GrossWeight 5
 - NetWeight 4.5
 - Dimension H80 Ø700
 - Volume 0.119
 - PcsForPack 1
 - WareHouseAvail D
 - Models
 - Model
 - Descriptions
 - Description (25)
 - Applications
 - Application (4)
 - Descriptions
 - 1 Descriptions
 - 2 Descriptions
 - 3 Descriptions
 - 4 Descriptions

Notes

Description (25)

	lang	Text
1	24	Romeno
2	23	Turco
3	22	Giapponese
4	21	Coreano
5	20	Bulgaro
6	19	Serbo
7	18	Cinese (tradizionale)
8	17	Croato
9	16	Finlandese
10	15	Cinese (semplificato)
11	14	Catalano
12	13	Greco
13	12	Portoghese (Brasile)
14	11	Russo
15	10	Polacco
16	9	Ungherese
17	8	Fiammingo
18	7	Sloveno
19	6	Portoghese
20	5	Ceco
21	4	Tedesco
22	3	Spagnolo
23	2	Italiano
24	1	Inglese
25	0	Francese

The *Description* field contains the information divided in the 25 program function languages.



Structure

Families			
Colors			
Color		+ Descriptions	
Marks			
Mark (3)			
	Abc	Text	
1	IMQ		
2	CE		
3	F		
Norms			
Norm		EN 60598 - 1	
ProductNote1			
Descriptions		+ Description (25)	
+ ProductNote2			
+ ProductNote3			
+ ProductNote4			
Images			
Image (2)			
	Name	Type	b64
1	2045_trif.jpg	1	+ b64 xmlns:dt=...
2	bi trif ambiente.jpg	1	+ b64 xmlns:dt=...

Notes

Image

- Name: name of linked file
- Type: type of linked file
- b64: files in binary format



Structure

<div style="border: 1px solid black; padding: 2px;"> Documents </div>																																				
<div style="border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;"> Document (2) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Name</th> <th>Language</th> <th>Type</th> <th>b64</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2045.rtf</td> <td>ING</td> <td>11</td> <td>b64 xmlns:dt=...</td> </tr> <tr> <td>2</td> <td>2045.rtf</td> <td>ITA</td> <td>11</td> <td>b64 xmlns:dt=...</td> </tr> </tbody> </table> </div> </div>			Name	Language	Type	b64	1	2045.rtf	ING	11	b64 xmlns:dt=...	2	2045.rtf	ITA	11	b64 xmlns:dt=...																				
	Name	Language	Type	b64																																
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2	2045.rtf	ITA	11	b64 xmlns:dt=...																																
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<div style="border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;"> LinkedDocument (6) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Name</th> <th>Language</th> <th>Type</th> <th>b64</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RIFOGLIO_istr_ita_e</td> <td>ING</td> <td>15</td> <td>b64 xmlns:dt=...</td> </tr> <tr> <td>2</td> <td>RIFOGLIO_istr_ita_e</td> <td>ITA</td> <td>15</td> <td>b64 xmlns:dt=...</td> </tr> <tr> <td>3</td> <td>MRTL000177-TRIFO</td> <td>ING</td> <td>14</td> <td>b64 xmlns:dt=...</td> </tr> <tr> <td>4</td> <td>MRTL000177-TRIFO</td> <td>ITA</td> <td>14</td> <td>b64 xmlns:dt=...</td> </tr> <tr> <td>5</td> <td>07_2045_trifoglio_IM</td> <td>ING</td> <td>14</td> <td>b64 xmlns:dt=...</td> </tr> <tr> <td>6</td> <td>07_2045_trifoglio_IM</td> <td>ITA</td> <td>14</td> <td>b64 xmlns:dt=...</td> </tr> </tbody> </table> </div> </div>			Name	Language	Type	b64	1	RIFOGLIO_istr_ita_e	ING	15	b64 xmlns:dt=...	2	RIFOGLIO_istr_ita_e	ITA	15	b64 xmlns:dt=...	3	MRTL000177-TRIFO	ING	14	b64 xmlns:dt=...	4	MRTL000177-TRIFO	ITA	14	b64 xmlns:dt=...	5	07_2045_trifoglio_IM	ING	14	b64 xmlns:dt=...	6	07_2045_trifoglio_IM	ITA	14	b64 xmlns:dt=...
	Name	Language	Type	b64																																
1	RIFOGLIO_istr_ita_e	ING	15	b64 xmlns:dt=...																																
2	RIFOGLIO_istr_ita_e	ITA	15	b64 xmlns:dt=...																																
3	MRTL000177-TRIFO	ING	14	b64 xmlns:dt=...																																
4	MRTL000177-TRIFO	ITA	14	b64 xmlns:dt=...																																
5	07_2045_trifoglio_IM	ING	14	b64 xmlns:dt=...																																
6	07_2045_trifoglio_IM	ITA	14	b64 xmlns:dt=...																																
<div style="border: 1px solid black; padding: 2px;"> Device <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Emergency</td><td>N</td></tr> <tr><td>Battery</td><td></td></tr> <tr><td>BatteryLife</td><td>0</td></tr> <tr><td>BatteryIsteresys</td><td>N</td></tr> <tr><td>InsulationClass</td><td>1</td></tr> <tr><td>EANCod</td><td>8033383503372</td></tr> <tr><td>Exposed_area</td><td>0</td></tr> <tr><td>vdt</td><td>0</td></tr> <tr><td>LuminCIE</td><td></td></tr> <tr><td>LuminDIN</td><td></td></tr> <tr><td>IP_supplier</td><td></td></tr> <tr><td>IP_body</td><td>20</td></tr> <tr><td>IP_box</td><td></td></tr> </table> </div>		Emergency	N	Battery		BatteryLife	0	BatteryIsteresys	N	InsulationClass	1	EANCod	8033383503372	Exposed_area	0	vdt	0	LuminCIE		LuminDIN		IP_supplier		IP_body	20	IP_box										
Emergency	N																																			
Battery																																				
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BatteryIsteresys	N																																			
InsulationClass	1																																			
EANCod	8033383503372																																			
Exposed_area	0																																			
vdt	0																																			
LuminCIE																																				
LuminDIN																																				
IP_supplier																																				
IP_body	20																																			
IP_box																																				

Notes

Document - LinkedDocument

- *Name*: name of linked file
- *Language*: language of linked file
- *Type*: type of linked file
- *b64*: file in binary format



Structure

CutOff	
IK	
FireRes	
SurfaceTemp	
Optic	
BallastLoss	0
BallastFactor	0
LED	N
SourceVoltage	0
SourceCurrent	0
BeamOpening	0
IPEA	0
ClassificationCertificate	
Materials	
Ballasts	
Lamps	Lamp Qty=3 Alt=False
Reliefs	Relief
	Header
	TechSheet Ver=1

Note



OXL Mesh Specification

Introduction

The OXL format supports polygonal meshes with an arbitrary number of vertices per face. The mesh is understood to be made up of a list of three-dimensional vertices connected to give faces. The necessary information for defining the meshes is:

- ▶ Verticals
- ▶ Normals
- ▶ Texture coordinates
- ▶ Face definition
- ▶ Surface definition

The surfaces identify groups of faces with the same characteristics (material).

Normals and texture coordinates are defined per face per vertex, therefore the cardinality of these arrays is n

$$n = \sum_{f=0}^{numFaces-1} numVerticesPerFace(f)$$

Face definition is effected by identifying the indices of the vertices that belong to them.

To this end an array utility VertPerFace is defined containing the vertex indices that form the faces of the mesh. The cardinality of VertPerFace is n also in this case.

Each individual face is then defined specifying the number of vertices forming it, the geometric normal to the face, the index of the associated surface and the offset of the index of the first vertex inside the VertPerFace.

Also for the surfaces an array utility SurfaceFaceID is defined, with cardinality equal to the number of faces, which contains the indices of the faces forming the mesh surface.

Each individual surface is then defined specifying the number of faces forming it and the offset of the index of the first vertex inside the SurfaceFaceID.

Notes



OXL Mesh Specification

Fields description

The mesh description is contained in the OXL file which is memorized in XML language. The structure of the section representing the mesh is as follows:

<Mesh>

<Id> identification number </Id>

<Vertices size="vertices number ">

x y z; x y z; x y z;

<Normals size="normals number per face per vertex">

x y z; x y z; x y z;

<UVs size=" texture coordinates number per face per vertex">

u v; u v; u v;

<VertPerFace size="indices number per face per vertex">

i; i; i; i; i; i; ...

<Faces>

<Face>

<NumVert> number of vertices of the face</NumVert>

<VertOffset> index of the first vertex of the face in the array VertPerFace</VertOffset>

<SurfaceID> index of the belonging surfaces</SurfaceID>

<Normal> normal to the face</Normal>

</Face>

<Face>

...

</Face>

Notes



OXL Mesh Specification

Notes

```
<SurfaceFaceID size="number of faces">  
i; i; i; i; ....  
  
<Surfaces>  
  <Surface>  
    <NumFaces> number of faces belonging to this surface</NumFaces>  
    <Offset> index of the first face belonging to this surface in the array<Offset>  
  </Surface>  
  <Surface>  
    ....  
  </Surface>  
  ....  
</Surfaces>  
</Mesh>
```



OXL Mesh Specification

Example of a polygonal cube with a single surface

<MeshData>

<Id>158033560</Id>

<Vertices size="8">

-0.500000 -0.500000 0.000000; 0.500000 -0.500000 0.000000;
-0.500000 -0.500000 1.000000; 0.500000 -0.500000 1.000000;
-0.500000 0.500000 1.000000; 0.500000 0.500000 1.000000;
-0.500000 0.500000 0.000000; 0.500000 0.500000 0.000000

</Vertices>s

<Normals size="24">

0.000000 -1.000000 0.000000; 0.000000 -1.000000 0.000000;
0.000000 -1.000000 0.000000; 0.000000 -1.000000 0.000000;
0.000000 -0.000000 1.000000; 0.000000 -0.000000 1.000000;
0.000000 -0.000000 1.000000; 0.000000 -0.000000 1.000000;
0.000000 1.000000 0.000000; 0.000000 1.000000 0.000000;
0.000000 1.000000 0.000000; 0.000000 1.000000 0.000000;
0.000000 -0.000000 -1.000000; 0.000000 -0.000000 -1.000000;
0.000000 -0.000000 -1.000000; 0.000000 -0.000000 -1.000000;
1.000000 -0.000000 0.000000; 1.000000 -0.000000 0.000000;
1.000000 -0.000000 0.000000; 1.000000 -0.000000 0.000000;
-1.000000 -0.000000 0.000000; -1.000000 -0.000000 0.000000;
-1.000000 -0.000000 0.000000; -1.000000 -0.000000 0.000000

</Normals>

<UVs size="24">

0.000000 0.000000; 1.000000 0.000000; 1.000000 1.000000;
0.000000 1.000000; 0.000000 1.000000; 1.000000 1.000000;
1.000000 2.000000; 0.000000 2.000000; 0.000000 2.000000;
1.000000 2.000000; 1.000000 3.000000; 0.000000 3.000000;
0.000000 3.000000; 1.000000 3.000000; 1.000000 4.000000;

Notes



OXL Mesh Specification

```
0.000000 4.000000; 1.000000 0.000000; 2.000000 0.000000;  
2.000000 1.000000; 1.000000 1.000000; -1.000000 0.000000;  
0.000000 0.000000; 0.000000 1.000000; -1.000000 1.000000  
</UVs>  
<VertPerFace size="24">  
0; 1; 3; 2; 2; 3; 5; 4; 4; 5; 7; 6; 6; 7; 1; 0; 1; 7;  
5; 3; 6; 0; 2; 4  
</VertPerFace>  
<Faces>  
<Face>  
<NumVert>4</NumVert>  
<VertOffset>0</VertOffset>  
<SurfaceID>0</SurfaceID>  
<Normal>0.000000 -1.000000 0.000000</Normal>  
</Face>  
<Face>  
<NumVert>4</NumVert>  
<VertOffset>4</VertOffset>  
<SurfaceID>0</SurfaceID>  
<Normal>0.000000 0.000000 1.000000</Normal>  
</Face>  
<Face>  
<NumVert>4</NumVert>  
<VertOffset>8</VertOffset>  
<SurfaceID>0</SurfaceID>  
<Normal>0.000000 1.000000 0.000000</Normal>  
</Face>
```

Note



OXL Mesh Specification

```
<Face>
  <NumVert>4</NumVert>
  <VertOffset>12</VertOffset>
  <SurfaceID>0</SurfaceID>
  <Normal>0.000000 0.000000 -1.000000</Normal>
</Face>
<Face>
  <NumVert>4</NumVert>
  <VertOffset>16</VertOffset>
  <SurfaceID>0</SurfaceID>
  <Normal>1.000000 0.000000 0.000000</Normal>
</Face>
<Face>
  <NumVert>4</NumVert>
  <VertOffset>20</VertOffset>
  <SurfaceID>0</SurfaceID>
  <Normal>-1.000000 0.000000 0.000000</Normal>
</Face>
</Faces>
<SurfaceFacelD size="6">0; 1; 2; 3; 4; 5</SurfaceFacelD>
<Surfaces>
  <Surface>
    <NumFaces>6</NumFaces>
    <Offset>0</Offset>
  </Surface>
</Surfaces>
</MeshData>
```

Notes



Excel Bridge file

This file allows insertion of catalog data directly into Excel, and then to import them into LITESTAR 4D.

The file is composed of the same sections as the OxyData.MDB database and the OXC/OXL file, and in particular by the following:

- ▶ Commercial Parameters in which to enter the commercial product data such as code, description, price list references etc.
- ▶ Mechanical Parameters in which to enter the mechanical parameters such as weight, insulation class, IP etc.
- ▶ Electrical Parameters in which to insert the electrical parameters such as lamp code (inserting the lamp code shown in the Liswin catalog, the program automatically associates all the electrical parameters to the product) etc.

- ▶ Norms and Marks in which to enter the Norms the product complies with and the conformity Marks
- ▶ Images (JPG or BMP) and Text (RTF) in which to enter the name and extension of the image or text file to be associated to the product
- ▶ Photometric Data with which to define name and extension of the photometric files or file to be associated to the product
- ▶ Accessory File with which to define name and extension of the accessory files or file (instruction sheets, assembly details ...) to be associated to the product. The files can be in different formats

Notes

Each field (column) of the Excel Bridge file shows both the field description and comments on the field itself where are defined:

field description
type
format (number of characters)
an example
the field name (variable) as defined in the OxyData.MDB database

Multiple Insertions

There can be cases in which a product has more than one value for the same field: in these cases just insert as many columns as the values to be

Example: if the product has two colors there will have to be two color columns and the reference of the two colors will have to be inserted on the same product line.

Different languages text

The system allows management of files in different languages. To link them just insert the name of the file (the same in all the languages) in the Excel Bridge file and save the file in a language, inside a folder with the name of the language (example: ITA for Italian, ENG for English etc.).

Images and Accessory Files

Just save the file in a folder named as the archive to be inserted and type the full name in the Excel file.

Conversion from Excel >> Oxydata.MDB

The conversion of Excel Bridge files into OxyData.MDB is effected by OxyTech and is included in the license conditions of the program maintenance Contract, if active.

The screenshot shows an Excel spreadsheet with the following data in the 'Commercial Parameters' section:

Product Code	Price List Ref.	Price
L0301RC-BR0711i	PL 1-2009	150
L0301RC-LB0301-BR0711i	PL 1-2009	210
L0503RC-GX0107I	PL 1-2009	145
L0109PD-W1215	PL 1-2009	120

Callout boxes provide additional information:

- Example of comment in the field:** Points to a red triangle in the 'Price List Ref.' column, indicating that a comment is available.
- Example of field:** Points to the 'Price' column, stating that the comment is available if a red triangle appears in the upper right area of the field itself.
- Some fields (present in Lisdat as dropdown fields) have numerical references and can be defined using the corresponding tables which can be selected in the lower part of the window. It is necessary to insert the code (id) that corresponds to the chosen value (color, type, etc.).** Points to the 'Price' column.