

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
EN 60598-1:2015/A1:2018	5.2.10.1	DSH 2049A	2019
Category			
LITE			
Subject	Keywords	Developed by	Approved at
LED floodlights	- Gland - Cord anchorage - Size of the cable	OSM/LUM-ETF5	2019 ETICS Plenary Meeting

Question

Question about LED floodlights which are tested according to EN 60598-2-5 Clause 5.2.10.1

Some settable LED floodlights that are delivered without cable and plug, are equipped with a gland and/or a cord anchorage inside the supply box. In many cases, there is only the gland without any system to clamp the cable (see pictures below). The standard clearly states that glands shall not be used as cord anchorages, unless the gland is equipped with a clamping system which adapts itself to the size of the cable. However, many gland types are delivered with a silicon ring only, which is not suitable to serve as cord anchorages. Practical tests have nearly always proved this.



Q1) Is a cord anchorage required for this kind of floodlights, knowing that they are fixed appliances but in most constructions, the client will install it with a flexible cord. Shall also the IP rating be maintained? This is of interest especially where the floodlight is designed to be connected with a cable and no information is given in the instructions.

Q2) If a cord anchorage is required, is this construction in accordance with the standard?

Q3) What is the minimum diameter opening for introducing a cable of minimum 1,5 mm²?

Decision

A1) For this construction, a cord anchorage is required if the instructions give no information on how to connect the luminaire.

In general, instructions for installation shall inform what kind of installation cable or conduit shall be supplied. In case of conduits no cord anchorage is required; however, if the installation instructions require a supply cord, a cord anchorage is required.

A2) A gland can be used as a cord anchorage provided that the gland is equipped with a clamping system which adapts itself to the size of the cable (minimum 1 mm²).

A3) Proper installation instructions shall be given (clause 3.3) as to what kind of installation cable shall be used. The opening should be suitable for installation of the cable indicated in the instructions.

Explanatory notes
