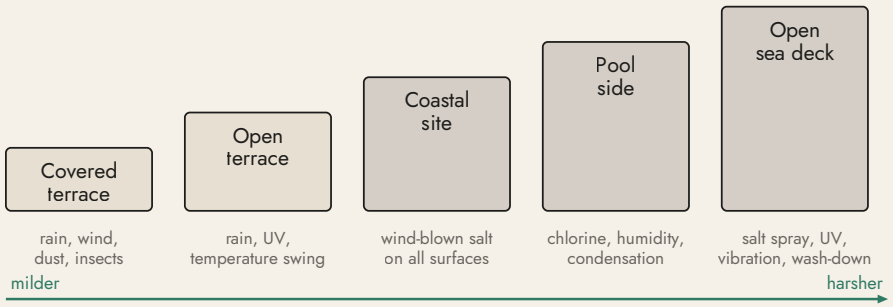
Outdoor, terrace and *marine* lighting

Outdoor lighting is exposure first and rating second. Five exposures, what IP and IK do not cover, corrosion, UV and glass, and the questions to ask a supplier.

AT A GLANCE

Exposure	Main stresses	Ratings: what to ask	Metal, glass and seals: what to ask
Covered terrace	Rain blown in, dust, insects, damp air	Ask what the fitting is tested to and where the water path runs	Ordinary exterior finish may do; check seals, gland and glass fixing
Open terrace	Rain, sun (UV), wind, temperature swings	Ask for a stated rating for the fitting as installed	UV-stable seals and plastics; glass that survives thermal shock
Coastal site	Wind-blown salt on every surface	As above; salt is not part of an IP test	Metal and fasteners chosen for salt air: see the metals sheets
Pool side	Chlorine and humidity, condensation inside the fitting	Ask how the fitting breathes and drains	Finish and metal chosen for chlorinated air, not for rain
Open sea deck (marine)	Salt spray, UV, vibration, wash-down	Ask what the vessel's rules require, and the evidence	Marine-suitable metals, isolated fasteners, serviceable seals

Qualitative, not a specification. No IP or IK value is prescribed for any exposure: the lighting designer and supplier set it for the project.



Five outdoor exposure levels and their main stresses. Qualitative: no ratings implied. Original drawing by Make Bespoke Studio.

EIGHT QUESTIONS FOR THE SUPPLIER

1 What exposure was it made for? 2 What is the rating as installed, tested by whom? 3 What are the body, fixings and gland made of? 4 What finish and what test evidence? 5 What glass, how held, what if it cracks? 6 What seals, and how do they stand sun and cold? 7 Where does condensation go, and how is it opened? 8 What cleaning and inspection schedule?

SPECIFICATION WORDING

EXPOSURE STATEMENT

The luminaires [tag] are for [covered terrace / open terrace / coastal / pool side / marine] exposure at [location], [distance from the sea or pool], with [cleaning regime]. The supplier is to confirm in writing that each is suitable for that exposure and to state its IP and IK rating as installed, with the cable entry, [values set by the lighting designer].

MATERIALS AND FINISH

Body, bracket, fixings, screws and gland are to be of [metals and finish stated by the supplier and approved by the designer for the exposure] and compatible with each other and the structure. Dissimilar metals are to be [isolated / avoided]. The supplier is to state the finish and the test evidence for it, with the standard, edition, hours and who ran the test.

GLASS, SEALS AND VENTING

Glass shades are to be [type, held as described in the submittal] and to [remain in place if cracked]. Seals are to be [material stated by the supplier] and stable in sun and temperature change. The fitting is to have [drain or breather] for condensation and be [openable for lamp and driver service without damaging seals].

EVIDENCE AND CARE

The supplier is to provide test evidence, the declaration of conformity and written care and inspection instructions for the handover pack. Obtrusive-light control is to meet [ILP GN01 edition and zone named in the planning condition, if any].

TERMS USED

IP code

A classification of the protection an enclosure gives against solid objects and water. BS EN 60529 (1992+A2:2013) is listed by BSI as current; it sets the degrees, designations, requirements and verification tests. It does not describe salt, chemical or UV resistance.

Neutral salt spray test

A laboratory corrosion test of coatings and finishes in a salt fog, in the family of tests in BS EN ISO 9227. It compares coatings under one set of conditions and is not a prediction of years of outdoor life.

Obtrusive light

Light that falls where it is not wanted, for example into windows or the sky. ILP Guidance Note 1 (GN01:2021) sets out how to assess and reduce it, including curfews.

STANDARDS AND SOURCES

- BS EN 60529:1992+A2:2013 (IP code): BSI Knowledge: Current, published 28 Feb 2019; text not read.
- BS EN 62262:2002+A1:2021 (IK code): retailer listings, current; BSI Knowledge page not reached; text not read.
- BS EN ISO 9227:2022, and +A1:2024 (salt spray tests): search summaries of BSI listings: 2022 current (25 Nov 2022), amended version 30 Jun 2024; text not read.
- ILP Guidance Note 1 for the reduction of obtrusive light, GN01:2021: ILP news item of 26 May 2021 read; the document and its zone limits not read.

Full guide: https://makebespoke.com/trade/technical/outdoor-terrace-and-marine-lighting. Make Bespoke Studio coordinates manufacture through its partner workshops. Figures are guidance only and your specification governs; some may be superseded, so contact the studio to verify.