POLARIS LIGHT



FREE CHECKLIST FOR UK SITE OWNERS

Car park and yard LED lighting

Which standard applies, how to limit spill, and a survey checklist for columns, posts and masts

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Written for site owners and facilities managers planning lighting for a car park, service yard or loading area. No prices, and no invented lux figures.

Edition 1, November 2026

Who this is for, and how to use it

A car park, service yard or loading area is only lit well if the right standard is used, spill towards neighbours is designed rather than hoped for, and the fitting matches the mounting: a flood on a column, a street lantern on a spigot, a post-top, or a high-mast module.

This checklist is a briefing note for a site survey. It repeats indoor car park figures we have already published from BS EN 12464-1:2021. It names BS EN 12464-2 and BS 5489-1, and ILP guidance, where they apply, but it does not copy figures we have not verified from those documents. Product facts come from the live Polaris product pages. Every Polaris product carries a 5-year warranty on the fitting.

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1. STANDARDS

Which document applies to your site

Not every car park is designed to the same standard.

- Covered and indoor car parks are workplace interiors. Traffic lanes, ramps and pedestrian paths are in BS EN 12464-1:2021, Light and lighting. Lighting of work places. Indoor work places.
- Outdoor work places, including many yards and external car parks, are covered by BS EN 12464-2, Light and lighting. Lighting of work places. Outdoor work places. The Polaris UK lux levels guide already names this standard for those areas. This checklist does not publish figures from BS EN 12464-2.
- Outdoor public lighting, including many access roads and some open public car parks, is designed to BS 5489-1. This checklist does not reproduce figures from that standard.
- Service yards and loading bays should be briefed from the actual task, not from a generic car park number.

> **Do not copy an indoor figure onto an open park**
>
> If the site is an open outdoor park, ask for a design to the standard that actually applies. The indoor row below is only for indoor and covered parks.

2. INDOOR FIGURES

Indoor car park light levels from BS EN 12464-1:2021

These values are maintained illuminance, already published in the Polaris UK lux levels guide. We have not changed them.

Area or task	Em required (lux)	Em modified (lux)	UGR	Ra
Indoor car park: traffic lanes, ramps and pedestrian paths	**75**	**100**	**25**	**40**

Source: BS EN 12464-1:2021, as published at polarislight.com/uk-lux-levels-guide/. The lighting design settles which target applies. This page does not add outdoor lux, camera lux or uniformity figures that we have not checked in the relevant standard.

3. SPILL

Spill light, neighbours and aiming

Asymmetric optics put more light on the ground and less into the sky or neighbouring windows. PS-FLOOD is offered with asymmetric distributions and an optional visor. PS-STREET uses Type II, III, IV and V road optics so the distribution can follow the road or bay layout.

For obtrusive light, UK designers commonly refer to Institution of Lighting Professionals (ILP) guidance. This checklist does not copy numeric limits from that guidance. A site close to houses should have a light-spill drawing, not only a lux plot on the tarmac. Polaris produces both, and can support a planning application where one is needed.

4. FITTINGS

PS-FLOOD, PS-STREET, PS-POLE and PS-MAST

The right wattage and optic come from the design. We do not publish prices here.

- **PS-FLOOD.** Column, lamp post, wall or gantry floodlight. 100 to 400 W, 160 to 180 lm/W, IP66, IK08 (IK10 with metal mesh). Nine optics, with asymmetric P45 as standard. 1-10 V and DALI dimming. 150 W gives 25,500 lumens; 400 W gives up to 68,000 lumens. -40 C to +45 C, 6 kV surge protection as standard.
- **PS-STREET.** Spigot-mounted street light. 24 to 200 W at 170 lm/W, up to 34,000 lm at 200 W, IP66, IK08, Type II to V optics. DALI, 0/1-10 V, timer and photocell option.
- **PS-POLE.** Post-top light. 30 to 90 W, 5,100 to 13,500 lm, IP66, IK08, symmetric or asymmetric optics.
- **PS-MAST.** Modular high-mast floodlight for large parks and freight yards. 500, 750, 1,000 or 1,500 W at 170 lm/W, 85,000 to 255,000 lm, IP66, IK08, remote driver box.



PS-FLOOD, 400 W front view. Use the product page for the full specification and options, including the visor and mesh.

5. CONTROLS

Sensors, dimming and covered-park emergency lighting

Optional sensors and dimming help where a park or yard is quiet for long periods. We have not stated energy-saving percentages, because they depend on the existing installation and how the space is used.

For covered parks, emergency lighting is a separate design. See the warehouse emergency lighting page on polarislight.com rather than treating emergency as an accessory on this checklist.

6. CHECKLIST

Site survey list

- [ ] Plan of the park or yard, including bays, aisles, ramps, pedestrian routes and neighbouring buildings or windows.
- [ ] Whether the area is indoor or covered, an open outdoor park, a workplace yard, or a mix.
- [ ] The lighting standard you expect the design to follow, and any planning conditions already in force.
- [ ] Existing column or wall positions, heights, condition and electrical capacity, including surge and isolation.
- [ ] Where spill must be limited, and whether a light-spill drawing will be needed.
- [ ] Whether dimming or sensors are wanted, and the hours the site is in use.
- [ ] For covered parks, whether emergency lighting is already present and who owns that design.
- [ ] Access for installation and maintenance, including any traffic management.

Where every figure in this checklist comes from

- BS EN 12464-1:2021 indoor car park row, as published at polarislight.com/uk-lux-levels-guide/.
- BS EN 12464-2, named as the standard for outdoor work places such as yards and external car parks, as already stated at polarislight.com/uk-lux-levels-guide/. No figures from that standard are quoted here.
- BS 5489-1, named only. No figures from that standard are quoted here.
- Institution of Lighting Professionals guidance on obtrusive light, named only. No numeric limits are quoted here.
- Product facts: polarislight.com/products/ps-flood/, /products/ps-street/, /products/ps-pole/ and /products/ps-mast/, November 2026.

This checklist is not a substitute for the standards themselves, or for a lighting design of your site. For a survey, a lux plot and a proposal, contact Polaris Light on +44 7847 798816 or hello@polarislight.com.

Polaris Light Ltd, 71-75 Shelton Street, London WC2H 9JQ. Company number 09763338. Edition 1, November 2026. Every Polaris product carries a 5-year warranty on the fitting. Emergency packs and batteries are not covered by that warranty.