

Plot 9 and 10 – Lighting Data

Location	Fitting Type	Model (example)	Qty per house	Colour Temp (CCT)	Max Lumen Output (per fitting)	Beam / Mount	Control	Ecological Notes
Porch canopy (over front door)	Recessed soffit downlight	Collingwood H2 Lite CSP (set to 2700 K)	2	≤ 2700 K warm white	≤ 400 lm	~55° beam; ~ 2.5 m (recessed)	Timer or PIR , auto-off ≤ 5 min (recommended)	Fully shielded, local pool of light only; avoids spill to façade/sky; keep lux at plot edges ≤ 1 lux.
Front elevation	PIR wall light (downward)	Philips myGarden PIR (e.g., June/Samondra, 2700 K)	2	≤ 2700 K	≤ 500 lm	Downward shielded; ≤ 3.0 m	PIR , auto-off ≤ 5 min	Activates only when needed; maintain dark corridors; aim heads away from trees/hedges.
Rear elevation	PIR wall light (downward)	Philips myGarden PIR (2700 K)	2	≤ 2700 K	≤ 500 lm	Downward shielded; ≤ 3.0 m	PIR , auto-off ≤ 5 min	No spill onto hedgerow/rain gardens; maintain ≤ 1 lux at habitat edges.
Side elevation (Utility door)	PIR wall light (downward)	Philips myGarden PIR (2700 K)	1	≤ 2700 K	≤ 500 lm	Downward shielded; ≤ 3.0 m	PIR , auto-off ≤ 5 min	Provides task light only when occupied; protects side dark corridor.
Side elevation (opposite)	PIR wall light (downward)	Philips myGarden PIR (2700 K)	1	≤ 2700 K	≤ 500 lm	Downward shielded; ≤ 3.0 m	PIR , auto-off ≤ 5 min	Same as above.

Per-house totals: $2 \times$ porch soffit downlights + $6 \times$ PIR wall lights = **8 fittings**

Site-wide (2 houses): 4 porch downlights + **12** PIR wall lights = **16 fittings**

Fixed ecological parameters to include on your drawings/spec:

- **CCT:** All fittings ≤ 2700 K (warm white).
- **Output caps:** Porch ≤ 400 lm each; PIR wall lights ≤ 500 lm each.
- **Lux targets:**
 - At sensitive boundaries/vegetation/bat routes: ≤ 1 lux.
 - Typical ground plane directly below PIR lights: ≤ 5 lux, rapidly decaying with distance.
- **Aiming/shielding:** All beams **fully downward**, no up-light; fit visors/shields if needed to meet ≤ 1 lux at edges.
- **Controls:** All wall lights on **PIR (auto-off ≤ 5 min)**. Porch downlights on **timer or PIR** (avoid permanent-on).
- **Placement clearances:** No light affecting bat/bird boxes.