Page 4 — Commissioning & Site Acceptance

Document: Installation & Wiring Notes (Tender / Site Use)   Applicable Systems: AC LED / Solar Street Light / Smart Controller (select)

Project / Site: _____   Pack Rev: ____   Date: ____
  Prepared by: _____

4.1 Commissioning Quick Guide (Controller / Dimming Profile)

A) Pre-Power Checks (Before Energizing)

☐ Confirm correct model / revision pack matches BOQ

☐ Verify wiring polarity and terminal tightness (per installer practice)

☐ Confirm cable gland / sealing installed correctly (no pinched jacket)

☐ Confirm grounding connection is present where required

☐ Confirm SPD (if used) is installed and indicator shows normal

Notes: Any visible damage or missing seals must be corrected before power-on.

B) Power-On & Basic Function Test

☐ Power on circuit / system

☐ Luminaire turns on as expected (manual override or default behavior)

☐ Verify dimming input behavior (0–10V / DALI / PWM as applicable)

☐ Verify photocell / time-control behavior (if applicable)

Record: Power on time: ____:____   Initial mode observed: _____

C) Smart Controller Setup (If Applicable)

☐ Set device ID / luminaire ID mapping (label matches platform)

☐ Set time (RTC) / timezone (or confirm auto-sync)

☐ Apply dimming profile (e.g., 100% 18:00–22:00; 50% 22:00–05:00; 100% 05:00–06:00)

☐ Confirm sensor inputs (motion / ambient) respond correctly

☐ Confirm network join (NB-IoT / 4G / LoRa) and first data report received

☐ Confirm fail-safe behavior (fallback schedule if network lost)

Record: Controller SN/ID: _____   Network status: ☐ Online ☐ Pending ☐ Offline

Profile name / version: _____   First report timestamp: _____

D) Handover (Commissioning Output)

☐ Screenshot or export of applied dimming profile

☐ List of controller IDs and pole locations (or map pin list)

☐ Any deviations / issues and corrective actions

4.2 Site Acceptance Checklist — What to Verify

Acceptance shall comply with the project specification and local electrical code. Record evidence for each item (photo, instrument reading, platform screenshot).

Electrical Safety & Continuity

Insulation Resistance Test
Method: insulation tester (megger) per site practice
Acceptance: meets project / local code requirement
Evidence: reading ____ MΩ @ ____ V, test points _____
Result: ☐ Pass ☐ Fail   Notes: _____

Earth Continuity / Ground Bond
Method: continuity test between grounding point and earth path
Acceptance: continuous bond, per local code
Evidence: reading ____ Ω   Result: ☐ Pass ☐ Fail   Notes: _____

Polarity / Wiring Verification
Method: check L/N/PE or DC polarity as applicable
Acceptance: correct polarity and correct terminal assignment
Evidence: photo + checklist   Result: ☐ Pass ☐ Fail

Functional & Control Checks

Functional Test (ON/OFF + Dimming)
Method: manual override / controller command
Acceptance: responds correctly, no flicker, stable operation
Evidence: video/photo + timestamp   Result: ☐ Pass ☐ Fail

Control System Verification (If Applicable)
Method: platform shows device online + command response
Acceptance: device reachable, profile applied, telemetry received
Evidence: platform screenshot   Result: ☐ Pass ☐ Fail

Surge Protection & Sealing

SPD Indicator / Installation (If Applicable)
Method: visual indicator + wiring check
Acceptance: indicator normal, correct wiring, shortest practical earth lead
Evidence: photo of SPD + indicator   Result: ☐ Pass ☐ Fail

Sealing / IP Integrity (Visual Check)
Method: inspect gaskets, glands, unused holes plugged, drip loop where needed
Acceptance: no gaps, no damaged seals, cable jacket intact
Evidence: close-up photos   Result: ☐ Pass ☐ Fail

Labeling & Documentation

Labeling / Traceability
Method: verify label present and readable (model / SN / controller ID)
Acceptance: matches commissioning records and BOQ mapping
Evidence: label photo + record sheet   Result: ☐ Pass ☐ Fail

As-Built Record Completeness
Method: check pole/location list, controller mapping, profile export
Acceptance: complete and signed
Evidence: signed checklist + attachments   Result: ☐ Pass ☐ Fail

Sign-off

Installer: _____   Date: ____ / ____ / ____
Supervisor / EPC: _____   Date: ____ / ____ / ____
Client / Consultant (if required): _____
Date: ____ / ____ / ____

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