Container Terminal Lighting
Planning and Verification Worksheet

Jieyao Lighting | Rev 1 | 10 November 2026

Terminal / block: _____ Reviewer: _____

Plan / revision: _____ Date: _____

1. Record the operating states

State	Height / footprint / aisle	Plan or photo reference
Empty reference	_____	_____
Normal occupied	_____	_____
Maximum permitted	_____	_____
Active handling	_____	_____

2. Define each task before selecting criteria

[ ] Routes and crossings [ ] Container faces [ ] Transfer tasks [ ] Pedestrian access

Governing document / authority / edition: _____

Task plane, grid, maintained criterion and uniformity formula: _____

_____

Driver / crane views, glare and transition checks: _____

3. Match the candidate equipment

[ ] Mast coordinates and mounting heights [ ] Luminaire / optic and IES-LDT revision

[ ] Aiming / scene / maintenance assumptions [ ] Handling and servicing clearances

Evaluate occupied layouts before comparing input power and operating hours.

Geometry and Survey Record

4. Reproduce the ideal shadow example

Point source at height H; opaque screen edge at distance d and height h; level ground. For H > h: shadow beyond edge s = d x h / (H - h).

H (m)	h (m)	d (m)	s (m)
20	12	20	30.00
30	12	20	13.33
40	12	20	8.57
30	6	20	5.00
30	9	20	8.57

Example only: no finite-width, reflected-light, intensity-distribution or second-source calculation. It predicts the direct shadow of one ideal source, not total lux or a compliant mast height.

5. Record the surveyed scene

[ ] Equipment and aiming match [ ] Meter ID / calibration [ ] Grid and plane identified

[ ] Stack / plant positions recorded [ ] Active control mode [ ] Conditions recorded

Critical route / task result and report reference: _____

Corrective action / retest / owner: _____

6. Retain the comparison

Keep the approved task schedule, occupied-state model, photometric files, aiming plan, scene settings, survey and open-item closure together.

References: OSHA 29 CFR 1917.123 (US regulatory scope); PSS SiP009 v2, October 2025 (UK guidance). Use the project-specific governing criteria.

Related guide: www.jieyaolighting.com/news/container-terminal-lighting-stack-shadows-and-task-planes