

# EN 12464 Report

## Audit Header

Project	box_room_diffuse
Project Revision	5
Job ID	job_direct
Job Hash	da0f1b1a1ee54119d4a10dfc3f92ccb011aeaded1d39eed3061c35aa6cd852bc
Solver Version	0.2.0
Git Commit	unknown
Photometry Hashes	{'asset_1': 'c2afac9722125d6d8dbab260bf146e01713653fcd1f55888704dab208748d834'}
Coordinate Convention	Local luminaire frame: +Z up, nadir is -Z; C=0 toward +X, C=90 toward +Y
Units	{'angles': 'deg', 'illuminance': 'lux', 'length': 'm', 'luminous_flux': 'lm', 'luminous_intensity': 'cd'}

## Inputs

Room	Box
Dimensions	6.0 x 6.0 x 3.0 m
Floor reflectance	0.2
Wall reflectance	0.5
Ceiling reflectance	0.7

## Luminaire Schedule

Rotation/Aim	LLF
{'type': 'euler_zyx', 'euler_deg': (0.0, 0.0, 0.0), 'aim': None, 'up': None, 'matrix': None}	1.0

## Per-Grid Statistics

	mean	max
	46.19722454445375	225.00000

## Calculation Tables

### Grid Tables

	Area	Min
	None	11.865106

## Zone Compliance Tables

No zone compliance data available.

## Worst-Case Summary

global_worst_min_lux	11.86510672265132
global_worst_uniformity_ratio	0.2568359211976901
global_highest_ugr	0.0

## Compliance

pass_fail_reasons	[]
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## UGR Summary

No UGR results available for this job.

## Assumptions

A1	Coordinate convention: local luminaire frame +Z up, nadir -Z; Type C C=0 toward +X, C=90 toward
A2	Supported photometric types: Type C only.
A3	TILT factors are applied against gamma (vertical) angle; out-of-range tilt angles are clamped.
A4	Direct calculation excludes geometry occlusion unless enabled.
A5	Luminaire tilt is applied when photometry includes tilt data; otherwise tilt has no effect.
A6	Direct solver uses no inter-reflection reflectance model (direct-only irradiance).
M1	Coordinate convention: local luminaire frame +Z up, nadir -Z; Type C C=0 toward +X, C=90 toward
M2	Supported photometric types: Type C only.
M3	TILT factors are applied against gamma (vertical) angle; out-of-range tilt angles are clamped.
M4	Direct calculation excludes geometry occlusion unless enabled.
M5	Luminaire tilt is applied when photometry includes tilt data; otherwise tilt has no effect.
M6	Direct solver uses no inter-reflection reflectance model (direct-only irradiance).
M7	TILT applied: no
M8	TILT application angle: gamma (vertical angle)
M9	Units contract: {'angles': 'deg', 'illuminance': 'lux', 'length': 'm', 'luminous_flux': 'lm', 'luminous_intensi
M10	Occlusion mode: disabled
M11	Supported photometric types: Type C only.
M12	Backend version: cpu@0.2.0

## Photometry Warnings

asset/luminaire	message
asset_1	Missing recommended [MANUFAC] keyword.

asset_1	Missing recommended [LUMCAT] keyword.
lum_1	Luminaire lum_1 has calc points in potential near-field

## Unsupported Features

U1	Penumbra/area-light soft shadowing is not implemented in CPU direct backend.
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