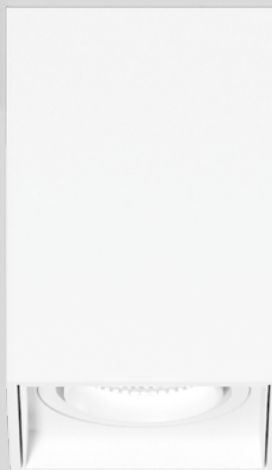


# KARO

## ceiling

[xal.com/karo](http://xal.com/karo)



### Quickinfo

#### GENERAL

ceiling mounted  
IP20  
light engine exchangeable

#### LED

COB LED module  
up to 94lm/W  
2700K, 3000K  
CRI ≥ 90  
Binning initial ≤ 3 MacAdam

#### ESTIMATED LED LIFETIME

L80/50 000h

#### OPTICAL

beam angle 18°, 24°, 36°  
optical accessories

#### ELECTRICAL

non DIM, DIM DALI

#### PHYSICAL

aluminium  
powder-coated

### Description

**DE** Kubischer Aufbaustrahler aus Aluminium; 360° dreh- und 15° schwenkbar; Oberfläche weiß, silbergrau oder schwarz pulverbeschichtet; optische Aufsätze sind als Zubehör erhältlich; passive Kühlung der LEDs durch optimierte Kühlkörpergeometrie; COB (Chip on Board) Technologie für höchste Effizienz; keine Bildung von Mehrfachschatten; energieeffiziente LEDs mit sehr guter Farbwiedergabe; Binning initial ≤ 3 MacAdam; lieferbar in den Lichtfarben 2700K und 3000K; CRI ≥ 90; min. 80% des Lichtstromes nach 50 000 h Lebensdauer hochwertiger Aluminiumreflektor mit sphärischer Facettenoptik; hochglänzend eloxiert; präzise Abstrahlcharakteristik mit drei verschiedenen Ausstrahlwinkeln; werkzeuglos einsetz- bzw. austauschbar; Schutzart IP20; SKI; optional DALI-dimmbar

**EN** Cubic surface mounted spotlight made of aluminium; 360° rotatable and 15° tiltable; surface white, silver-grey or black powder coated; optical attachments available as accessories; passive cooling of LEDs with optimised heat sink geometry; COB (Chip on Board) technology for maximum efficiency; no multiple shadows; energy-efficient LEDs with very good colour rendering; binning initial ≤ 3 MacAdam; available in the light colours 2700K and 3000K; CRI ≥ 90; min. 80% of the luminous flux after 50 000 hours; high quality aluminium reflector with spherical facet finish; high gloss anodised; precise radiation characteristic with three different beam angles; installed and exchanged without tools; protection class IP20; PCI; optional DALI dimmable

### Standard configuration

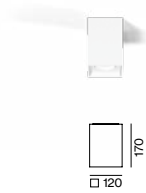
COLOUR TEMPERATURE   
3000K 5

CONTROL   
non DIM 1

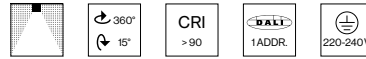
MATERIAL COLOUR   
white 7






REFLECTOR   
flood 36° F



### KARO ceiling



| SYSTEM POWER | COLOUR TEMP.     | LUMINOUS FLUX      | ORDER CODE  |
|--------------|------------------|--------------------|---|
| 15 W         | 2700 K<br>3000 K | 1360 lm<br>1410 lm | 0 4 8 - 4 4 3 0    |

### LIGHT DISTRIBUTION for 3000 K

| spot 18° |        |        | medium 24° |        |        | flood 36° |        |        |
|----------|--------|--------|------------|--------|--------|-----------|--------|--------|
| h (m)    | E (lx) | ø (m)  | h (m)      | E (lx) | ø (m)  | h (m)     | E (lx) | ø (m)  |
| 1        | 7637   | ø 0,31 | 1          | 4945   | ø 0,42 | 1         | 2899   | ø 0,65 |
| 2        | 1909   | ø 0,62 | 2          | 1236   | ø 0,84 | 2         | 724    | ø 1,31 |
| 3        | 848    | ø 0,93 | 3          | 549    | ø 1,27 | 3         | 322    | ø 1,96 |
| 4        | 477    | ø 1,24 | 4          | 309    | ø 1,69 | 4         | 181    | ø 2,61 |
| 5        | 305    | ø 1,55 | 5          | 197    | ø 2,11 | 5         | 115    | ø 3,27 |

### Extended configuration

COLOUR TEMPERATURE   
2700 K 4

CONTROL   
DIM DALI 3

MATERIAL COLOUR   
silver-grey G  
black 8







+5% surcharges

REFLECTOR   
spot 18° S  
medium 24° M



### Optical accessories

#### HONEYCOMB, LENS AND SNOOT

| TYPE                  | Ø-H (mm) | ORDER CODE  |
|-----------------------|----------|---|
| honeycomb             | 74-11    | 0 4 8 - 2 1 9 1 3 1  |
| linear prismatic lens | 74-11    | 0 4 8 - 2 1 9 2 3 1  |
| snoot                 | 74-25    | 0 4 8 - 2 1 9 1 1 1  |
| snoot + honeycomb     | 74-25    | 0 4 8 - 2 1 9 1 2 1  |

use only 1 optical accessory

### Options on request

INDIVIDUAL MATERIAL COLOUR  
please contact factory

## Inspiration

Ryser Optical Store  
St. Gallen, Switzerland

**PRODUCT**  
KARO ceiling

**ARCHITECT**  
Heikaus, shopfitting  
Mundelsheim, Germany



