





# **COPA I and COPA D**High-bay reflector luminaires

The most striking feature of these high-bay reflector luminaires is the finned surface of the upper part of the housing. With the aid of the aluminium diecasting process, the designer has integrated technology as a formal element of the luminaire design. The volume of the housing has been minimised thanks to excellent heat dissipation.

Semi-translucent reflectors made of high-quality poly-carbonate allow the light source to gleam through and provide noticeable accent lighting in decorative areas.

# COPA

DESIGN CHARLES KELLER



"A practical design – today's manufacturing methods and tomorrow's architectural vision form the basis of the product development process for the COPA I and COPA D highbay reflector luminaire range."

At first glance one notices the fascinating, cool elegance of aluminium, the second thing one notices is the technology which has been left exposed. COPA I and COPA D unite technical functionality and a clear design.





# **COPA A**High-bay reflector luminaires

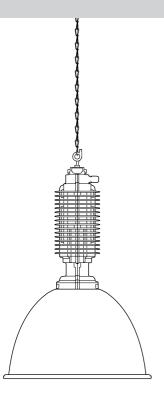
The technical concept behind COPA A is completely geared towards robust, dependable construction. The materials used – a diecast aluminium housing and a toughened safety glass cover – make the surface-mounted high-bay reflector luminaire a durable, almost maintenance-free product.

COPA

DESIGN CHARLES KELLER

COPA A is designed as a compact, rugged industrial luminaire. The functional nature of this luminaire designed for high bays is underlined by the diecast aluminium housing with symmetrically arranged cooling fins. Its businesslike, technical look makes COPA A also suitable for use in areas where a plain industrial appearance is required.







COPA I. Application areas of the COPA I high-bay reflector luminaire range from production and warehouse bays through to manufacturing and sales areas and atria with ceiling heights of over 4 m.

Its high lumen output, simple installation procedure, which does not require tools, and easy electrical connections make it a quality product for all industrial applications.

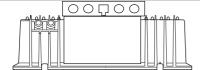
COPA D. This smaller high-bay reflector luminaire is particularly suited to decorative areas such as sales areas, art galleries, foyers and corridors with a ceiling height of 3 to 4 m.

Its smaller diameter, reduced height and the use of semi-translucent plastic reflectors and innovative light sources emphasise the architectural aspects of the luminaire.

Materials. Unlike conventional high-bay reflector luminaires which are made of sheet steel, the COPA I and COPA D housing is made of aluminium. This means that the housing can be reduced to a minimum and heat dissipation can be improved. Inoxidation blasting gives the IP 20 housing a fine surface texture. The housing of the IP 54/65 version is stove enamelled in RAL 9006.

Photometrics. The use of new materials such as semi-translucent plastic reflectors enables a variety of lighting concepts to be achieved with COPA D. In addition to the version with a closed aluminium reflector, COPA D with a partly translucent reflector creates new impressions in decorative applications.

Safety. The whole COPA range of products has ENEC test certification. Depending on application, the luminaire is available with different protection ratings, for high ambient temperatures, with ballproof characteristics or accessories, thus ensuring the required degree of safety in all areas.



COPA A. Typical application areas of COPA A include industrial use in assembly and production areas, workshops, filling stations and warehouse bays. This surface-mounted high-bay reflector luminaire is also suitable for use in indoor tennis courts, sports facilities or riding areas and for lighting relatively large sales areas. Various lighting characteristics and the wide choice of lamps that can be fitted (even QL 165 W induction lamps) deliver perfect lighting in areas with ceiling heights from 4 m to 15 m. High-quality materials and digital ignitors ensure long service life and straightforward maintenance.

Safety. The diecast aluminium housing with symmetrically arranged fins and the use of digital ignitors make the COPA A an exceptionally rugged, safe luminaire. With a toughened safety glass cover and durable sealing, it offers protection up to IP 65. The digital ignitor prevents defective lamps from flashing and interfering with radio, computer or alarm systems. COPA A meets ENEC test requirements.

Installation. COPA A is available as a surface-mounted or recessed version.

Recessed mounting is possible using a mounting frame (accessory). The mounting bracket for direct mounting on the ceiling is preassembled and can be used for chain or cord suspension. Luminaires can be installed on sloping walls or ceilings using a special mounting bracket.











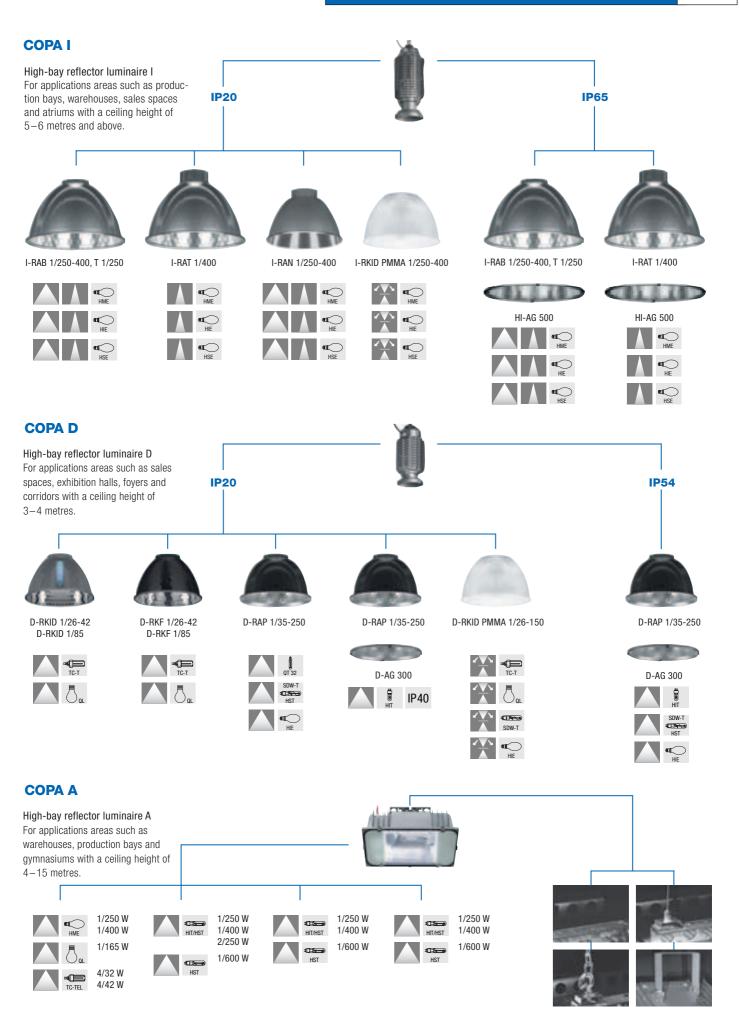














# **COPA I high-bay reflector luminaire IP 20**



Gear unit IP 20

- Die-cast aluminium, untreated with fine texture
- Improved heat dissipation due to peripheral fins
- 1.5 m of black cable 3 x 1.5 mm<sup>2</sup> inserted into gear unit
- Installed using COPA ZAR chain suspension supplied or accessories to be ordered separately

7	Cat. no.	kg	Order no.	Order no.
	gear tray IP 20		I.p.f.	h.p.f.
	1/250 W HIE/HSE	7.2	20 969 091	20 969 106
	1/250 W HIE/HSE KSP	7.7		20 969 470
j-	1/250 W HME	6.2	20 969 079	20 969 085
	1/250 W HME KSP	7.0		20 969 451
3-	1/400 W HIE	7.2	20 969 137	20 969 143
	1/400 W HIE KSP	8.1		20 969 518
	1/400 W HME	7.5	20 969 115	20 969 121
е	1/400 W HME KSP	7.2		20 969 492
	1/400 W HSE	8.3	20 969 159	20 969 162
	1/400 W HSE KSP	9.0		20 969 530

NOTE: Sometimes a glass cover must be used with metal halide lamps with ellipsoidal glass bulbs (HIE). (Refer to lamp manufacturer's data). [SP = blocking inductor]

#### **COPA I high-bay reflector luminaire IP 65**















#### Gear unit IP 65

- Die-cast aluminium, stove-enamelled in RAL 9006
- Improved heat dissipation due to peripheral fins
- Inserted hollow section rubber seal
- for increased protection • 1.5 m of red silicone cable
- 3 x 1.5 mm2 inserted into gear unit • Inductive models are suitable for high
- ambient temperatures • Installed using COPA ZAR chain suspension supplied or accessories to be ordered separately
- IP 65 and FF rating only in conjunction with aluminium reflectors and glass cover

Cat. no.	H/Ø	kg	Order no.
gear tray IP 65			h.p.f.
1/250 W HIE/HSE ♥♥	445/165	7.3	20 967 967
1/250 W HIE/HSE KSP ♥♥	445/165	7.6	20 969 486
1/250 W HME ♥♥	445/165	7.1	20 967 948
1/250 W HME KSP ♥♥	445/165	6.9	20 969 464
1/400 W HIE ♥♥	445/165	8.6	20 968 003
1/400 W HIE KSP ♥♥	445/165	8.2	20 969 524
1/400 W HME ♥♥	445/165	6.9	20 967 989
1/400 W HME KSP ♥♥	445/165	7.3	20 969 509
1/400 W HSE ♥♥	445/165	8.5	20 968 028
1/400 W HSE KSP ♥♥	445/165	9.1	20 969 546
gear tray IP 65 for high ambient temperatures			I.p.f.
1/250 W HIE/HSE TA 60°C	445/165	8.4	20 967 954
1/250 W HME TA 60°C	445/165	7.5	20 967 932
1/400 W HIE TA 55°C	445/165	7.7	20 967 995
1/400 W HME TA 50°C	445/165	8.0	20 967 973

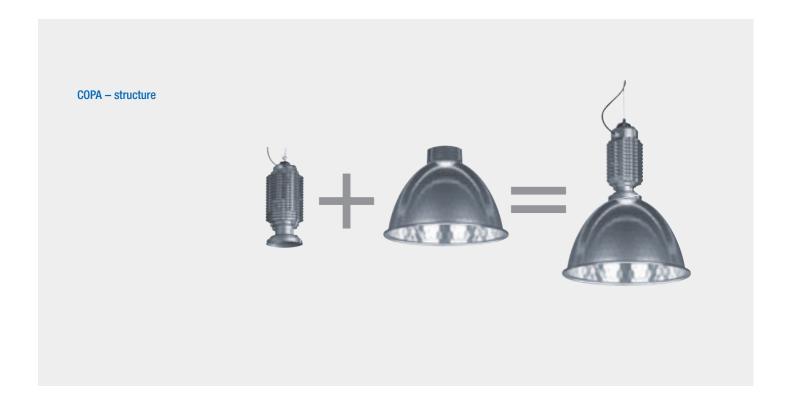
NOTE: Sometimes a glass cover must be used with metal halide lamps with ellipsoidal glass bulbs (HIE). (Refer to lamp manufacturer's data). [SP = blocking inductor]

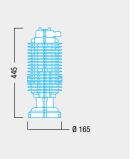
 $\overline{\mathbb{V}}\overline{\mathbb{V}} \quad \textit{If gear units with IP 65 for high ambient temperatures are used at normal temperatures, they, too, have the $\overline{\mathbb{V}}\overline{\mathbb{V}}$ rating.}$ 

1/400 W HSE TA 40°C

To specify e.g.: COPA high-bay reflector luminaire IP 20 1/250 W HIE/HSE 20 969 106

445/165 8.8

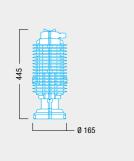


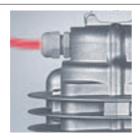




# Electric feed

The gear units in the COPA I range require no additional installation effort because a 1.5 m long cable is already connected at the factory.





# Electric feed

The gear units in the COPA I range require no additional installation effort because a 1.5 m long cable is already connected at the factory.



For HID lamp with E40 lampholder

HME = high-pressure mercury-vapou lamp

HSE = high-pressure sodium-vapour lamp

HIE = metal halide lamp



An inserted hollow-section seal in the diecast aluminium half-shell ensures protection to IP 65.



#### **COPA I reflector RAB**



TIME THE HEE 960°C

#### Specular reflector optic

- Reflector for 250/400 W wide-angle, 250 W narrow-beam
- Narrow-beam distribution if lampholder is adjusted on site (250 W)
- Specular reflector made of pure aluminium with integral facetted structure
- Anodised in a highly specular finish
- Fixed via keyholes at the rear of the unit
- Cover glass as accessory

# COPA I Refl RAB 1/250-400, T 1/250 330/544 1.7 20 969 348

**▼** Specular reflector with glass cover combined with IP 65 gear unit has the **▼** rating.

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Cat. no.

Luminaires with RAB specular reflector and glass cover, and suspended from a cord or chain or installed using a wall bracket, are ballproof according to DIN18032 Part 2.

H/Ø

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1.8

Order no.

Order no.

20 969 354

Order no.

Order no.

#### **COPA I reflector RAT**



## Specular reflector optic

- Reflector for 400 W narrow-beam
- Specular reflector made of pure aluminium with integral facetted structure
- · Anodised in a highly specular finish
- Fixed via keyholes at the rear of the unit
- · Cover glass as accessory

H/Ø

380/544

▼ Specular reflector with glass cover combined with IP 65 gear unit has the ▼ rating.

 $\oplus$ 

Cat. no.

Cat. no.

Cat. no.

COPA I Refl RAT 1/400

Luminaires with RAT specular reflector and glass cover, and suspended from a cord or chain or installed using a wall bracket, are ballproof according to DIN18032 Part 2.

# **COPA I reflector RAN**



#### Specular reflector optic

- Reflector for 250/400 W wide-angle, 250 W narrow-beam
- Specular reflector made of pure aluminium with smooth surface
- Anodised in a highly specular finish
- Fixed via keyholes at the rear of the unit
- Reflector only possible for open use (cover glass not possible)

COPA I Refl RAN 1/250 - 400	245/420	0.8	20 969 423

# HME HIE HSE 960°C



# Prismatic reflector

- Reflector for 250 W or 400 W, with indirect/direct light distribution
- Prismatic reflector made of PMMA
- Fixed using backplate via keyholes at rear of unit

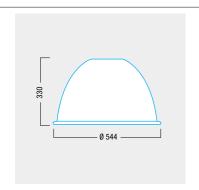
COPA I Refl RKID 1/250 PMMA	274/411	1.3	20 928 332
COPA I Refl RKID 1/400 PMMA	341/563	3.2	20 928 348

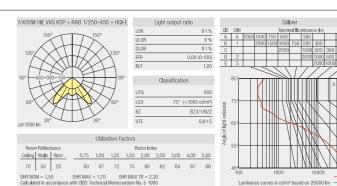
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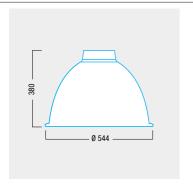
kg

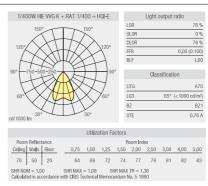
Cover plate available on request.

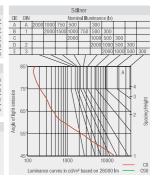


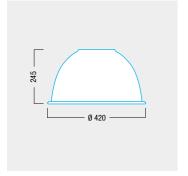


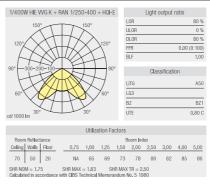


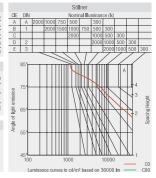


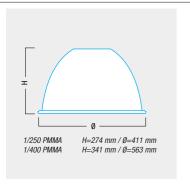


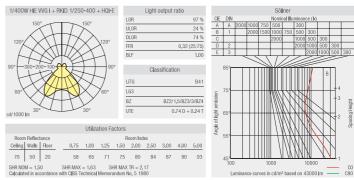












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#### **COPA D** high-bay reflector luminaire IP 20



#### Gear unit IP 20

- Die-cast aluminium, untreated with fine texture
- Improved heat dissipation due to peripheral fins

F/ **(K**)

- Electrical connection through cable gland on 3-pole plug-in terminal block (from factory without any cable)
- Installed using fixing components to be ordered separately
- Cable and suspension system are not included in scope of supply

Cat. no.	H/Ø	kg	Order no.	Order no.
for TC-TEL lamps			electronic	dimmable
1/32 W TC-TEL	310/140	1.9	40 969 227	42 148 583
1/42 W TC-TEL	310/140	1.9	40 969 233	42 148 584
for QL induction lamps (incl. la	mp/840)			
1/85 W QL	310/140	2.7	40 969 255	
for QT lamps				
1/60-250 W QT 32	310/140	1.7	20 969 301	
for HIE lamps			I.p.f.	h.p.f.
1/70 W HIE	310/140	3.1	20 968 097	20 968 102
1/70 W HIE KSP	310/140	3.5		20 969 571
1/150 W HIE	310/140	4.6	20 968 133	20 968 149
1/150 W HIE KSP	310/140	4.9		20 969 604
for HIT lamps (only in conjuncti	on with cover	glass)	I.p.f.	h.p.f.
1/70 W HIT	310/140	3.0	20 969 266	20 969 272
1/70 W HIT KSP	310/140	3.4		20 969 552
1/150 W HIT	310/140	4.5	20 969 288	20 969 294
1/150 W HIT KSP	310/140	4.8		20 969 587
for HST lamps			I.p.f.	h.p.f.
1/100 W HST (SDW-T)	310/140	3.9	20 969 326	20 969 332
1/100 W HST KSP (SDW-T)	310/140	4.2		20 969 408

NOTE: Sometimes a glass cover must be used with metal halide lamps with ellipsoidal glass bulbs (HIE). (Refer to lamp manufacturer's data). [SP = blocking inductor]

#### **COPA D high-bay reflector luminaire IP 54**



SDW-T 960°C

#### Gear unit IP 54

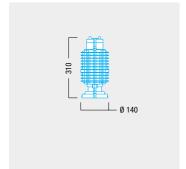
• Die-cast aluminium, stove-enamelled in RAL 9006

▼ ▼▼ IP54 **3** 

- Inserted hollow section rubber seal for increased protection
- Improved heat dissipation due to peripheral fins
- Electrical connection through cable gland on 3-pole plug-in terminal block (from factory without any cable)
- Installed using fixing components to be ordered separately
- Cable and suspension system are not included in scope of supply
- IP 54 and FF rating only in conjunction with aluminium reflector and glass cover

Cat. no.	H/Ø	kg	Order no.	Order no.
for HIT lamps			I.p.f.	h.p.f.
1/70 W HIT	310/140	3.1	20 968 075	20 968 081
1/70 W HIT KSP	310/140	3.5		20 969 565
1/150 W HIT	310/140	4.6	20 968 111	20 968 127
1/150 W HIT KSP	310/140	4.9		20 969 593
for HST lamps			I.p.f.	h.p.f.
1/100 W HST (SDW-T)	310/140	4.0	20 968 168	20 968 174
1/100 W HST KSP (SDW-T)	310/140	4.3		20 969 417

NOTE: Sometimes a glass cover must be used with metal halide lamps with ellipsoidal glass bulbs (HIE). (Refer to lamp manufacturer's data).  $[SP = blocking\ inductor]$ 

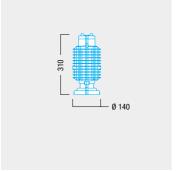


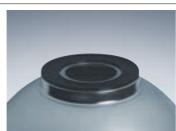


#### Reflector attachment

The aluminium reflectors are attached using screws through keyhole slots. The special screws built into the gear unit have a captive plain washer.

Always use a glass cover in the case of tubular metal halide lamps (HIT) (follow lamp manufacturer's instructions)!





# Seal ring between reflector and housing

A rubber seal ring (gasket) is fitted between the gear unit and aluminium reflector to ensure that the entire luminaire achieves the appropriate degree of protection IP 54 (COPA D) or IP 65 (COPA I).

#### **COPA D reflector RKID**



#### Specular reflector optic

- Reflector for TC-TEL compact lamps, QL induction lamps
- Plastic reflector made of polycarbonate with facetted structure
- · Semi-translucent aluminised
- Visible photometrics with 97 % -98 % direct light
- Fixed using "CLIX" mechanism
- Reflector optimised for coated lamps

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for TC-TEL / QL induction lamps			
COPA D Refl RKID 1/26-42	193/315	0.5	20 968 040
CODA D Doff DKID 1/95	102/215	0.5	20.068.056

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#### **COPA D reflector RKF**



## Specular reflector optic

- Reflector for TC-TEL compact lamps, QL induction lamps
- · Plastic reflector made of polycarbonate with facetted structure
- 100 % aluminised with a highly specular finish
- Fixed using "CLIX" mechanism
- Reflector optimised for coated lamps

Cat. no.	H/Ø	kg	Order no.
for TC-TEL / QL induction lamps			
COPA D Refl RKF 1/26-42	193/315	0.5	20 969 373
COPA D Refl RKF 1/85	193/315	0.5	20 968 034

Order no.

22 055 267



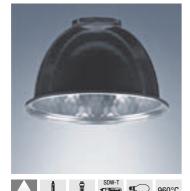








#### **COPA D reflector RAP**



#### Specular reflector optic

- Reflector made of pure aluminium with facetted structure
- Ergonomically designed thanks to disassembly of lighting point
- · Anodised in a highly specular finish
- Fixed via keyholes
- Optimised for point-shaped lamps

#### for QT, HIE, HIT, SDW-T lamps

COPA D Refl RAP 1/35-250 205/340 0.5

NOTE: A glass cover must always be used with metal halide lamps with tubular glass bulbs (HIT). (Requirement of the lamp manufacturer)

**▼** Specular reflector with glass cover combined with IP 54 gear unit has the **▼** rating.



Luminaires with RAP specular reflector and glass cover, and suspended from a cord or chain or installed using a wall bracket, are ballproof according to DIN18032 Part 2.

# **COPA D reflector RKID PMMA**



# Prismatic reflector

- Reflector for all lamp types of COPA D COPA D Refl RKID 1/26-150 PMMA
- Prismatic reflector made of PMMA
- Direct/indirect light distribution
- Fixed using backplate via keyholes at rear of unit
- Please note: not approved for 150 W HIT model (HIT only with PC reflector and cover panel)

Cat. no. Order no.

190/315



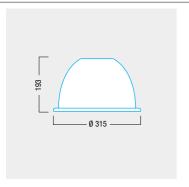


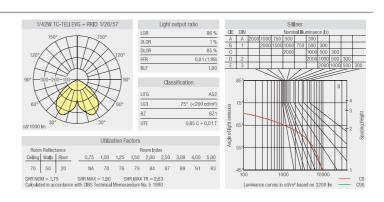


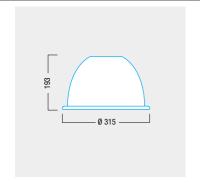


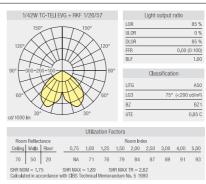


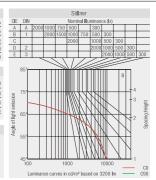


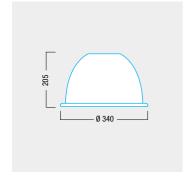


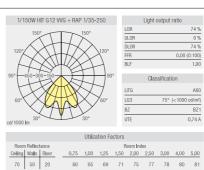


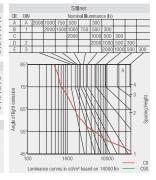


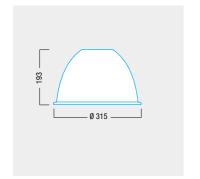


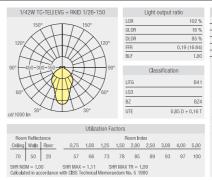


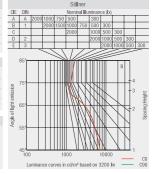












# **COPAI/D** accessories

# **COPA I/D installation**



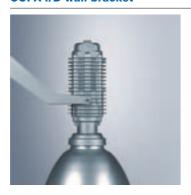
#### Installation Copa I/D

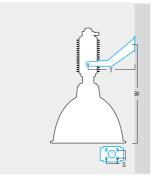
- Individual suspension facility using chain, cord, pendant, wall bracket, or surface-mounting on ceiling
- COPA ZAR chain suspension bracket included in COPA I scope of supply
- Ceiling bracket and pendant suspension are unsuitable for dynamic loads or wind loads

Cat. no.	Н	Order no.
ceiling bracket		
ZAD V2A Fixing component ceiling		20 935 067
chain suspension		
COPA ZAR	31	20 969 635
oord augnopoion		
cord suspension ASI 1000 O-L Suspension system cord 1000 mm	1000	20 934 934
ASI 2000 O-L Suspension system cord 2000 mm	2000	20 934 956
ASI 4000 O-L Suspension system cord 4000 mm	4000	20 936 436
nondent quanancian		
pendant suspension API 500 F-I RAI 9006	500	20 934 969
API 1000 E-L RAL 9006	1000	20 934 909
API 1500 E-L BAL 9006	1500	20 934 981
API 2000 E-L RAL 9006	2000	20 934 997
manuskad on ZT/ZTII kuundiin u		
mounted on ZT/ZTH trunking ZTB-HK (For chain)		20 969 629
,		
ZTB-HS (For cord)		20 969 613
auxiliary fastening device		
COPA ZB 500		20 969 657
COPA ZB 1500		20 969 660
feed-in ceiling rose		
PRO-BAI DACHIN		20 668 728
I IIV DALDAVIIII		20 000 720

The ceiling bracket is not designed for dynamic loads or wind loads.

#### **COPA I/D wall bracket**





Cat no	I /\//\L	ka	Order no

wall bracket			
COPA D-WA	302/151/215	1.3	20 968 196
COPA I-WA	351/181/215	1.7	20 968 180

Fixing materials for wall-mounting not included in supply.

#### Accessories

- Made of 4 mm sheet steel, stove-enamelled in RAL 9006
- Two installation positions
- Fixed to wall via keyholes
- Fastening screws for attachment to the rear of the unit included in scope of supply

Dimensions for wall mounting	T	W	S
COPA I RAN 1/250-400	334	580	80
COPA I RAB 1/250-400, T1/250	334	665	80
COPA I RAT 1/400	334	715	80
COPA D RAP 1/35-250	288	470	80
COPA D RKF 1/26-42, 1/85	288	458	80
COPA D RKID 1/26-42, 1/85	288	458	80

# **COPA I/D** glass cover



#### Accessories

- Made of safety glass
- Surrounding gasket for higher type of protection (Copa I IP 65, Copa D IP 54)
- V2A catches
- Can be hinged down for relamping
- Zumtobel Staff generally recommends the use of a glass cover when using high-pressure lamps

#### alaes cover

Cat. no.

glass cover		
COPA D Glas AG 300 For higher protection	335	20 969 445
COPA I Glas AG 500 For higher protection	535	20 969 439

Ø

Order no.

NOTE: Guaranteed ball proof only when used with glass covers and cord, chain or wall-bracket suspension. A glass cover must be used sometimes with metal halide lamps (HIE). (Refer to lamp manufacturer's data).

#### **COPA A surface-mounted high-bay luminaire**









32 124 858

Order no.



High bay reflector luminaire IP 65

- Housing made of die-cast aluminium, unmachined with fine texture
- Specially dimensioned reflectors for more light
- · Digital igniter increases safety and maintenance intervals
- Diffuser made of safety glass
- Pre-assembled ceiling bracket for especially easy installation
- 4 fixing points are needed for a suspended luminaire
- Versatile lamp technology
- · Luminaire is ballproof to DIN standard 18032 Part 2

Cat. no.	L/W/H	kg	Order no.	Order no.
COPA A-N reflector with standar	d distribution (	(medium-ar	ngle) <i>I.p.f.</i>	h.p.f.
1/165 W QL incl. lamp/840 🔻	580/334/260	11.4	42 124 881	
1/250 W HME	580/334/260	12.2	32 123 049	
1/250 W HME KSP	580/334/260	12.6		32 123 055
1/400 W HME	580/334/260	13.5	32 123 068	
1/400 W HME KSP	580/334/260	13.9		32 123 074
4/32 W TC-TEL ♥	580/334/260	11.1	42 125 068	
4/42 W TC-TEL ▼	580/334/260	11.1	42 124 897	
COPA A-B wide-angle reflector				
1/250 W HIT/HST	580/334/260	14.0	32 123 080	
1/250 W HIT/HST KSP	580/334/260	14.4		32 123 096
1/400 W HIT/HST	580/334/260	15.3	32 123 101	
1/400 W HIT/HST KSP	580/334/260	15.8		32 123 110
1/600 W HST	580/334/260	17.6	32 124 805	
1/600 W HST KSP	580/334/260	18.1		32 124 814
2/250 W HIT+HST	580/334/260	20.5	32 124 861	
2/250 W HIT+HST KSP	580/334/260	21.5		32 124 877
COPA A-T narrow-beam reflecto	r			
1/250 W HIT/HST	580/334/260	14.0	32 123 126	
1/250 W HIT/HST KSP	580/334/260	14.4		32 123 132
1/400 W HIT/HST	580/334/260	15.3	32 123 148	
1/400 W HIT/HST KSP	580/334/260	15.8		32 123 154
1/600 W HST	580/334/260	17.6	32 124 820	
1/600 W HST KSP	580/334/260	18.1		32 124 836
COPA A-ASQ reflector with asym	nmetrical distri	bution		
1/250 W HIT/HST	580/334/260	14.0	32 123 167	
1/250 W HIT/HST KSP	580/334/260	14.4		32 123 173
1/400 W HIT/HST	580/334/260	15.3	32 123 189	
1/400 W HIT/HST KSP	580/334/260	15.8		32 123 195
1/600 W HST	580/334/260	17.6	32 124 842	

#### **COPA A wall bracket**



Wall bracket

- Mounting bracket made of bright 3 mm V2A steel
- Pivots through +/-90°
- Installed on luminaire using 4 screws included
- 2-point wall fixing via keyhole
- Fixing material for wall/ceiling not included in the supply

wall bracket			
COPA A-WA Wall bracket	215/180/60	1.2	22 125 072

I /W/H

580/334/260 18.1

#### **COPA A recessed frame**

Mounting frame

- Mounting frame made of white painted sheet steel
- For flush recess into ceiling of all COPA A models
- Frame fastened on lower ceiling via cords or threaded rods (not included in supply)
- The luminaire is installed in the frame using the two fixing brackets supplied
- · Kit comprises frame, two mounting brackets and screws

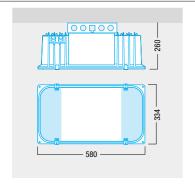
#### Cat. no. Order no.

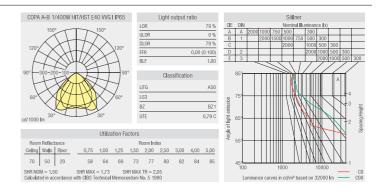
# accessories

1/600 W HST KSP

Cat. no.

COPA A-ER Recessed frame 22 125 094





# **COPA A chain suspension**



Chain suspension

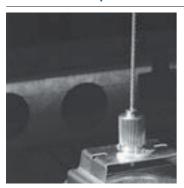
- Chain suspension bracket with V2A spring clip
- Galvanised S hook with integral sleeve for easy height adjustment
- Installed using CLIX mechanism

Cat. no.

chain suspension
COPA-ZAR 0.1 20 969 635

Note: Please order order 4 suspension units per luminaire

#### **COPA A cord suspensions**



#### Cord suspension

- With zinc-plated steel cord, 1.8 mm diameter
- V2A spring clip
- Cord suspension length continuously height-adjustable also after installation
- Cord can be cut to length without using any special tool
- Fixed using "CLIX" mechanism

# cord suspension

Cat. no.

•		
ASI 1000 O-L Suspension system cord 1000 mm	0.1	20 934 934
ASI 2000 O-L Suspension system cord 2000 mm	0.2	20 934 956
ASI 4000 O-L Suspension system cord 4000 mm	0.1	20 936 436

Note: Please order 4 suspension units per luminaire

Order no.

Order no.

kg

kg

#### COPA I/D/A ZO2

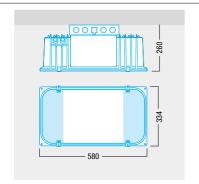
COPA A ZO2 ₹ 🕸 IP65 😵 Cat. no. kq Order no. High bay reflector luminaire ZO2 surface-mount. high-bay luminaire IP65 1/165W QL Z02 IP65 EEx nA II 3G T4 • Housing made of die-cast aluminium, 11.4 42 127 779 1/250W HIT/HST KSP Z02 IP65 EEx nA II 3G T3 unmachined with fine texture 14.4 32 127 752 4/42W TC-TEL ZO2 IP65 EEx nA II 3G T5 11.1 · Digital igniter increases safety and 42 127 763 maintenance intervals · Diffuser made of safety glass • Pre-assembled ceiling bracket for especially easy installation • 4 fixing points are needed for a suspended luminaire · Luminaire is ballproof to DIN standard 18032 Part 2 • -20 °C to +40 °C QL HIT/HST TC-TEL COPA I ZO2 kg Order no. ₹ ⟨£x⟩ IP65 High bay reflector luminaire ZO2 rotationally symmetrical IP65 high-bay refl. luminaire • Die-cast aluminium, stove-enamelled 1/250W HIE/HSE KSP ZO2 IP65 EEx nA II 3G T4 7.3 32 127 985 in RAL 9006 1/400W HIE KSP Z02 IP65 EEx nA II 3G T4 77 32 127 991 • Improved heat dissipation due to peripheral fins • Inserted hollow section rubber seal for increased protection • 1.5 m of red silicone cable 3 x 1.5 mm2 inserted into gear unit • Installed using COPA ZAR chain suspension supplied or accessories to be ordered separately · Fitted with RAB reflector and cover glass € HIF • -20 °C to +40 °C COPA D ZO2 ₹ ⟨£x⟩ IP54 Cat. no. Order no. rotationally symmetrical IP54 high-bay refl. luminaire High bay reflector luminaire Z02 1/42W TC-TEL ZO2 IP54 EEx nA II 3G T6 h.f. electronic ballast • Die-cast aluminium, stove-enamelled 32 42 065 227 in RAL 9006 1/70W HIT KSP Z02 IP54 EEx nA II 3G T5 3.1 32 065 204 • Inserted hollow section rubber seal 1/150W HIT KSP Z02 IP54 EEx nA II 3G T5 4.6 32 065 213 for increased protection • Improved heat dissipation due to peripheral fins

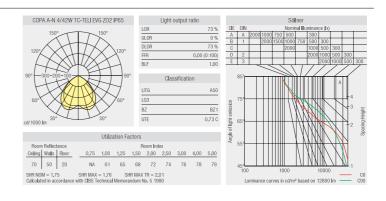


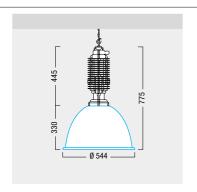


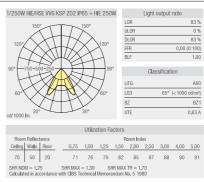


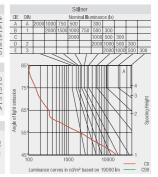
- Electrical connection through cable gland on 3-pole plug-in terminal block (from factory without any cable)
- Installed using fixing components to be ordered separately
- Fitted with RAP reflector and cover glass
- -20 °C to +40 °C

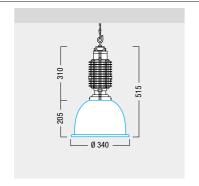


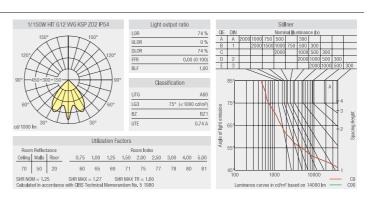












# **COPA HIGH-BAY REFLECTOR LUMINAIRE**

# **Planning guidelines**

# COPA D RKF/RKID plastic reflector with TC-TEL or QL light source

#### Correction factors:

Dark room:	1.1
Room height 5 m	
Floor area ≤ 50 m <sup>2</sup>	1.2
Floor area > 50 m <sup>2</sup>	1.1
Room height 6 m	
Floor area ≤ 50 m <sup>2</sup>	1.4
Floor area > 50 m <sup>2</sup>	1.2

Adequate uniformity with row spacings up to 5.6 m (TC-TEL) and 5.1 m (QL).

# COPA D RAP aluminium reflector with HIT or CDM-T light source

#### Correction factors:

Dark room:	1.1
Room height 5 m	
Floor area ≤ 50 m <sup>2</sup>	1.2
Floor area > 50 m <sup>2</sup>	1.1
Room height 6 m	
Floor area ≤ 50 m <sup>2</sup>	1.4
Floor area > 50 m <sup>2</sup>	1.2

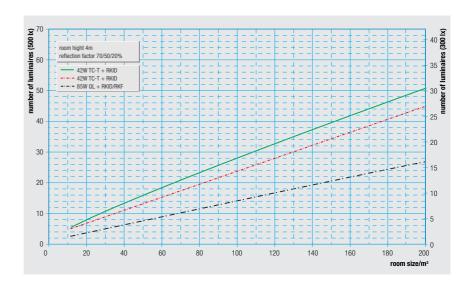
Adequate uniformity with row spacings up to 4.4 m.

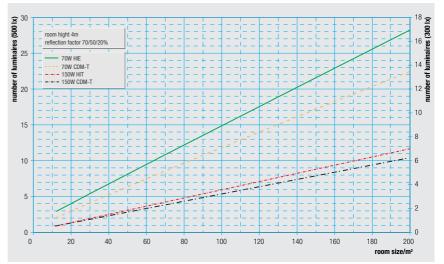
# COPA I RAB/RAN aluminium reflector with HSE/HIE light source

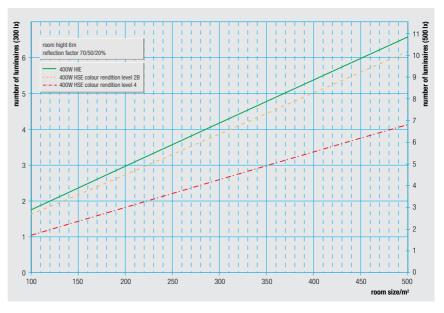
## Correction factor:

Dark room: 1.1

Adequate uniformity with row spacings up to 9.5 m/6.2 m (RAB/RAT) and up to 10.5 m (RAN)









Track and spots



Lighting systems



Downlights/uplights



Recessed luminaires



Surface-mounted and pendant luminaires



Wallwashers



Uplights, wall lights and task lights



Batten luminaires and continuous row luminaires



High-bay reflector luminaires



Luminaires of higher protection



Lighting management



Emergency lighting

Hospital trunking



Throughout the world, Zumtobel Staff is the competent reliable partner for innovative lighting solutions in all areas of application of professional interior lighting:

Industry and Engineering Sport and Leisure Transit areas and Car parks Offices and Administration Presentation and Retail Hotels and Catering Art and Culture Health & Care Safety and Confidence Active Light

With production plants in Austria, Germany, Australia and the USA, and sales organisations in all major European markets as well as commercial agencies in most regions of the world, Zumtobel Staff is one of the biggest international enterprises in the lighting sector.

As a leader in innovation, we guarantee our customers global competence in lighting consulting and design assistance, superior product quality and future-proof technologies - from individual luminaires to electronic lighting management systems.

Corporate goal: We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment.



**COPA**High-bay luminaires





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