

MINO 60 system

ceiling/ suspended

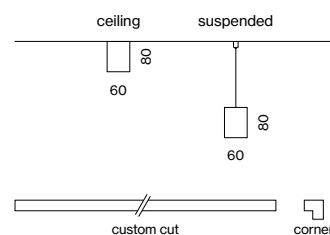
EN Luminaire housing from extruded aluminium profile, angular design; no visible screws; for lighting systems; powder coated; luminaire profile for mounting available in advance; remaining components mounted without tools; pendant fitting with cable suspension; height adjustment without tools; spring clip attachment to the luminaire; with transparent feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; option: lighting module is versatile in length; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; wallwasher light inset; energy-eff. LEDs – very good colour rendering

ES Cuerpo de perfil de aluminio con diseño angular; sin tornillos visibles; para sistemas de iluminación; recubierto de polvo; Perfil disponible para pre-montaje; los demás componentes se pueden montar sin herramientas; suspendido con cable; altura regulable sin herramientas; fijación en la lámpara por medio de clips elásticos; incl. cable de alimentación transparente; elemento de luz formado por perfil extruido con acabado altamente reflectante para una gestión térmica mejorada; elemento de luz opcional recortable a discreción; difusor opal de alta calidad que proporciona una iluminación uniforme; cubierta microprismática de PMMA con lámina difusora para la reducción de iluminancia y un alumbrado homogéneo; inserto bañador de pared; LED energét. efíc. – excelente reprod. crom.

Quickinfo

3000K, 4000K, TW
CRI ≥ 80, CRI ≥ 90, 3 SDCM
up to 2760 lm/m
up to 125 lm/W
L90 @ 50 000h
non DIM, DALI-2
opal, microprismatic (UGR ≤ 19)

Types



Colours



Light distributions



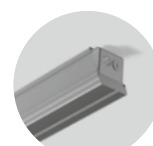
DiiA® standards
251, 252, 253



single luminaire
(p.544)



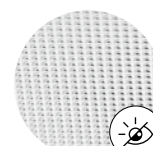
wallwasher
inset (p.944)



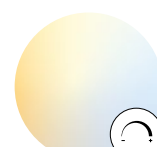
concrete install.
housing (p.946)



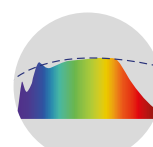
flexible
inset



microprismatic
UGR ≤ 19



tunable white
2700–6500K



CRI ≥ 98
XPECTRUM

Order options

LED TYPE	
mid lumen	L
high lumen	M

COLOUR TEMPERATURE	
3000 K (CRI \geq 90)	0
4000 K (CRI \geq 90)	1
3000 K (CRI \geq 80)	5
4000 K (CRI \geq 80)	6
tunable white 2700–6500 K*	
*DALI-2 DT8	

CONTROL	
non DIM	1
DALI-2 (only high lumen)	3

MATERIAL COLOUR	
○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8
● special colours p. 992	X

LIGHT OPTIC COVER	
opal high performance	H
microprismatic	Z
microprismatic (UGR \leq 19)*	G
blind cover only for corner 90°	B
*UGR \leq 19 only with mid lumen	

EMERGENCY LIGHT	
1h Accupack	N L 1
3h Accupack	N L 3

Options on request

COLOUR RENDERING INDEX
CRI \geq 98 XPECTRUM

CONNECTORS
X- and T-connector

LUMINOUS FLUX value calculated for
CRI \geq 80, colour white, cover opal
microprismatic -13%

MINO 60 ceiling/suspended

INSTALLATION CHANNEL / CORNER 90°

TYPE	L (mm)	ORDER CODE
channel	1172	0 46 - 4 0 0 4 0 1
channel	1472	0 46 - 4 0 0 5 0 1
channel	3000	0 46 - 4 0 0 9 0 1
channel	custom	E 8 5 0 3 1
channel corner 90° + cover	150x150	0 46 - 4 0 1 1 2 1

LIGHT OPTIC COVER / BLIND COVER

TYPE	L (mm)	ORDER CODE
linear	1171	0 0 6 - 1 6 1 2 2
linear	1470	0 0 6 - 1 6 1 5 2
linear	2997	0 0 6 - 1 6 3 0 2
linear	custom	E 8 0 6 3 0 0
continuous linear	6000	0 0 6 - 2 3 0 6 1 H
continuous linear	25000	0 0 6 - 2 3 2 5 1 H
blind cover	3000	0 0 6 - 1 8 3 0
blind cover	custom	E 8 0 6 3 0 B



LIGHT INSET 60

SYSTEM POWER (MID / HIGH LUMEN)	L (mm)	ORDER CODE
8.7 / 13.8 W	571	0 0 7 - 9 3 2 . . . 7
13 / 20.6 W	871	0 0 7 - 9 3 3 . . . 7
15.3 / 27.5 W	1171	0 0 7 - 9 3 4 . . . 7
19.2 / 34 W	1463	0 0 7 - 9 3 5 . . . 7
31 / 55 W	2341	0 0 7 - 9 3 8 . . . 7
38 / 68 W	2997	0 0 7 - 9 3 9 . . . 7
15.3 / 27.5 W flex	660-1171	0 0 7 - 9 3 F . . . 7
31 / 55 W flex	1903-2341	0 0 7 - 9 3 G . . . 7

COVER	COLOUR TEMP.	SYSTEM POWER	DELIVERED LUMENS	EFFICACY
mid lumen / opal	3000 K	14 W/m	1540 lm/m	118 lm/W
high performance	4000 K		1640 lm/m	125 lm/W
high lumen / opal	3000 K	24 W/m	2540 lm/m	110 lm/W
high performance	4000 K		2700 lm/m	116 lm/W

LIGHT INSET 60 tunable white 2700–6500 K

SYSTEM POWER	L (mm)	ORDER CODE
21.7 W	871	0 0 7 - 9 3 3 3 D 3 7
29 W	1171	0 0 7 - 9 3 3 4 D 3 7
36 W	1463	0 0 7 - 9 3 3 5 D 3 7
58 W	2341	0 0 7 - 9 3 3 8 D 3 7

Accessories

END CAPS

TYPE	ORDER CODE
end caps (pair)	0 46 - 5 0 1 0 0 1

LINEAR CONNECTOR / THROUGH WIRE

TYPE	ORDER CODE
linear connector (1 piece)	0 0 5 - 4 0 0 4 6
linear connector (10 pieces)	0 0 5 - 4 0 0 4 6 . 1 0
opal cover linear connector	0 0 6 - 1 4 0 0 0
through wire 3 × 1.5 mm ² (non DIM, 10 pieces)	0 0 4 - 9 0 0 0 3
through wire 5 × 1.5 mm ² (DALI-2, 10 pieces)	0 0 4 - 9 0 0 0 5

CEILING CLIP / CABLE SUSPENSION / CANOPY

TYPE	L (mm)	ORDER CODE
ceiling clip	10	0 3 4 - 1 1 6 3 6
cable suspension	1500	0 0 5 - 2 1 2 2 1 1 0
canopy / feeder cable 3 × 1.5 mm ²	1500	0 0 5 - 2 2 1 2 3 1
canopy / feeder cable 5 × 1.5 mm ²	1500	0 0 5 - 2 2 1 2 4 1
cable rail	1200	0 0 5 - 2 4 9 1 1 1 0

for electrical system configuration see luminaire data sheet at xal.com



WALLWASHER

inset 60/100

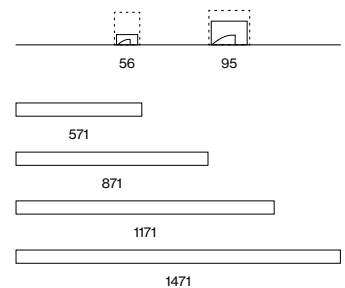
EN Lighting module with specially computed, asymmetrical high gloss reflector for homogeneous vertical lighting; lighting module in aluminium, powder coated, installation without tools

DE Lichteinsatz mit speziell berechnetem, asymmetrischem Hochglanz-Reflektor für homogene vertikale Beleuchtungen; Lichteinsatz aus pulverbeschichtetem Aluminium werkzeuglos einsetzbar

Quickinfo

3000K, 4000K
CRI ≥ 80, 3 SDCM
up to 96lm/W
L80 @ 50000h
non DIM, DALI-2

Types



Colours



Light distribution



wall
washer

Order options

COLOUR TEMPERATURE	
3000 K	5
4000 K	6

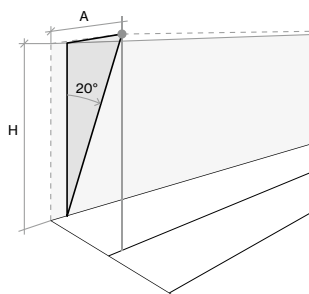
CONTROL	
non DIM	1
DALI-2	3

MATERIAL COLOUR	
○ pure white RAL 9010	7
● white aluminium RAL 9006	G
● jet black RAL 9005	8

LIGHT OPTIC

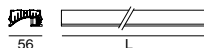
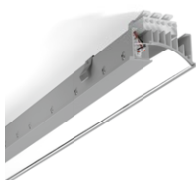
wallwasher

Planning information



MOUNTING DISTANCE

H (mm)	A (mm)
2750	900
3000	1000
3500	1200



INSET 60 wallwasher

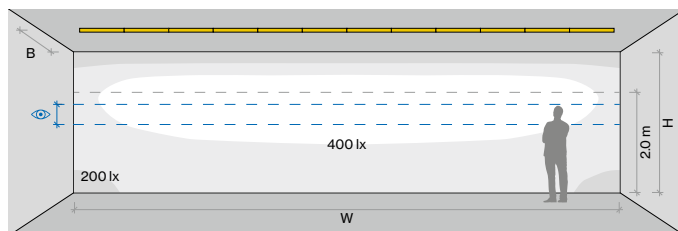


LIGHT INSET only for recessed or surface mounting

SYSTEM POWER	L (mm)	ORDER CODE
10.6 W	571	007-9042
14 W	871	007-9043
18.7 W	1171	007-9044
23 W	1471	007-9045

Technical data

SYSTEM POWER	COLOUR TEMPERATURE	DELIVERED LUMENS	EFFICACY
17 W/m	3000 K	1960 lm/m	121 lm/W
	4000 K	2070 lm/m	128 lm/W



INSET 60 wallwasher, 18.7 W, 3000 K

CALCULATION SURFACE

Surface dimensions	10.8 × 2.8 m
Surface height	0 – 2.8 m
Eye level	1.35 m – 1.75 m

ROOM VALUES

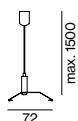
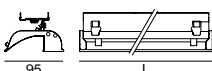
Wall dimensions	H = 2.8 m W = 10.8 m
Distance to wall	B = 1.3 m
Distance between luminaires	continuous
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

INSET 100 wallwasher



LIGHT INSET

SYSTEM POWER	L (mm)	ORDER CODE
20 W	571	007-9052
30 W	871	007-9053
40 W	1171	007-9054
51 W	1463	007-9055



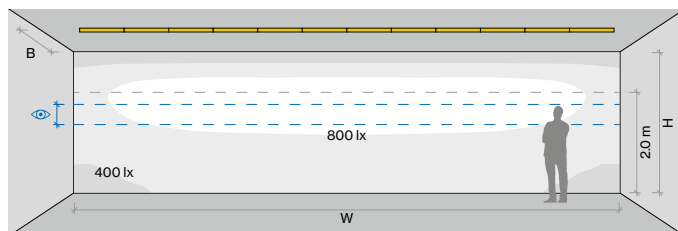
CABLE SUSPENSION

TYPE	L (mm)	ORDER CODE
inset 100 wallwasher	1500	005-2132310

installation channel is required for mounting

Technical data

SYSTEM POWER	COLOUR TEMPERATURE	DELIVERED LUMENS	EFFICACY
35 W/m	3000 K	2820 lm/m	82 lm/W
	4000 K	2990 lm/m	87 lm/W



INSET 100 wallwasher, 30 W, 3000 K

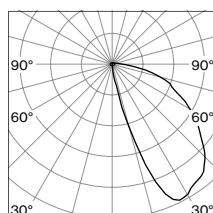
CALCULATION SURFACE

Surface dimensions	10.8 × 2.8 m
Surface height	0 – 2.8 m
Eye level	1.35 m – 1.75 m

ROOM VALUES

Wall dimensions	H = 2.8 m W = 10.8 m
Distance to wall	B = 1.3 m
Distance between luminaires	continuous
Reflection factor	0.7 0.5 0.2
Maintenance factor	0.8

Light distribution

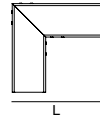
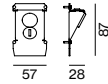
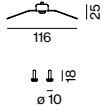


asymmetric

LUMINOUS FLUX value calculated for
CRI ≥ 80, colour white, reflector chrome

Order options

NUMBER OF PIECES	
2 pieces	2
3 pieces	3



FRAME 40/MINO 40

HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
FRAME 40 trim	3010	005-41356
MINO 40	3010	005-41356

MOUNTING SET

TYPE	ORDER CODE
FRAME 40 trim	035-0602
MINO 40	034-0602

up to 900 mm: 2 pieces/up to 1500 mm: 3 pieces/up to 3000 mm: 2 x 2 pieces

END CAPS

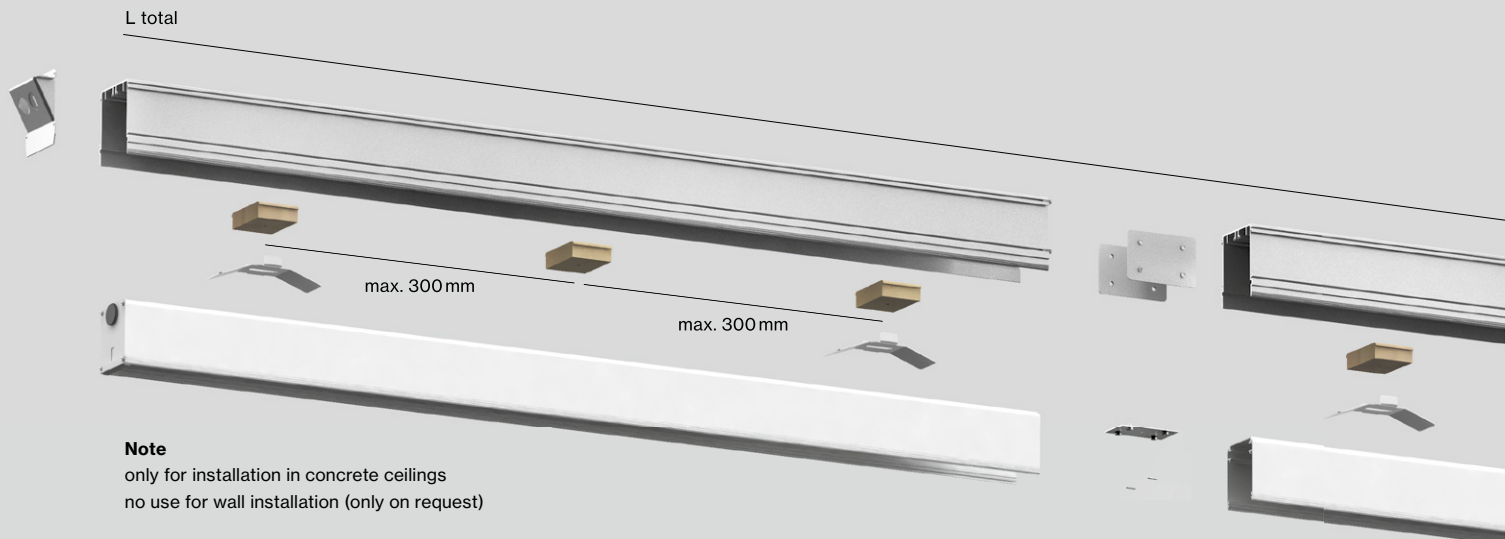
TYPE	ORDER CODE
end caps (pair)	005-41236

LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-41166
linear connector (10 pieces)	005-41166.10

CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
FRAME 40 trim	140	035-06016
MINO 40	140	035-06016



CONCRETE installation housing

EN Concrete casting made of aluminium profile, designed for continuous lighting systems

DE Betoneingießgehäuse aus Aluminiumprofil, ausgelegt für durchgehende Lichtsysteme

Order options

NUMBER OF PIECES	
2 pieces	2
3 pieces	3



FRAME 60/MINIMAL 60/MINO 60/BASO 60

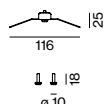
HOUSING FOR CONCRETE INSTALLATION

TYPE	L (mm)	ORDER CODE
FRAME 60 trim	3000	005-41346
BASO 60 IP54 trim	3000	005-41346
MINIMAL 60 trimless	3000	005-41346
MINO 60 ceiling	3000	005-41446
BASO 60 IP54 surface	3000	005-41446

MOUNTING SET

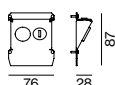
TYPE	ORDER CODE
FRAME 60 trim	035-0600
BASO 60 IP54 trim	035-0600
MINIMAL 60 trimless	036-0400
MINO 60 ceiling	034-0400
BASO 60 IP54 surface	034-0400

up to 900mm: 2 pieces/up to 1500mm: 3 pieces/up to 3000mm: 2 x 2 pieces



END CAPS

TYPE	ORDER CODE
end caps (pair)	005-41246



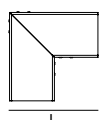
LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-41166
linear connector (10 pieces)	005-41166.10



CORNER CONNECTOR 90°

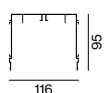
TYPE	L (mm)	ORDER CODE
FRAME 60 trim	142	035-04016
BASO 60 IP54 trim	142	035-04016
MINIMAL 60 trimless	146	036-04016
MINO 60 ceiling	157	034-04016
BASO 60 IP54 surface	157	034-04016



FRAME 100/MINIMAL 100/MINO 100

HOUSING FOR CONCRETE INSTALLATION

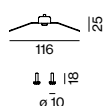
TYPE	L (mm)	ORDER CODE
FRAME 100 trim	3000	005-41366
MINIMAL 100 trimless	3000	005-41366
MINO 100 ceiling	3000	005-41466



MOUNTING SET

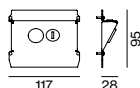
TYPE	ORDER CODE
FRAME 100 trim	035-0600
MINIMAL 100 trimless	036-0500
MINO 100 ceiling	034-0400

up to 900mm: 2 pieces/up to 1500mm: 3 pieces/up to 3000mm: 2x2 pieces



END CAPS

TYPE	ORDER CODE
end caps (pair)	005-41266



LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector (1 piece)	005-41166
linear connector (10 pieces)	005-41166.10



CORNER CONNECTOR 90°

TYPE	L (mm)	ORDER CODE
FRAME 100 trim	202	035-05016
MINIMAL 100 trimless	207	036-05016
MINO 100 ceiling	207	034-05016

