

# Lighting Tools

for sophisticated lighting tasks



Quadrature® 2 | Luminairesystem



office

industry

traffic

retail

public

sports

**sit**eco  
AN OSRAM BUSINESS



# Quadrature<sup>®</sup> 2

for sophisticated lighting tasks

Highest quality for the highest demands.  
Quadrature® 2 catches the eye with its confident design, perfect workmanship and fascinating quality of light, both with efficient T16 lamps or modern LED technology.



product  
design  
award

2011 ■

## Quadrature® 2

### The perfect symbiosis of design and technology

Even optimal solutions can still be made a touch better. Quadrature® 2 inspires with its mature constructional form and high material quality. And thanks to innovative ELDACON® technology, the ultra-flat linear luminaire is especially suitable for sophisticated lighting situations with high demands in terms of glare avoidance and flexibility.



*sit*eco

## Setting accents with a clear language of form

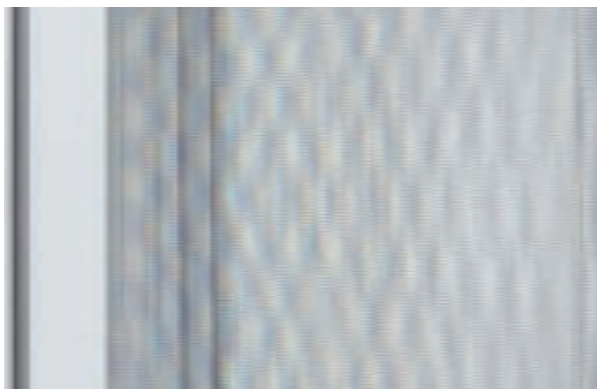
The Quadrature® 2 concept encompasses a clear, concise form to achieve greater interior design flexibility. Whether recessed, surface-mounted or suspended, the housing always appears lightweight and the profile slender, akin to an elegant picture frame. These are qualitative aesthetics

right down to the details, developed by the renowned design offices of Phoenix Design, Stuttgart, Germany. The luminaire frame consists of extruded aluminium profile with perfectly machined mitre cuts, a luminaire as if cast from one piece for setting sophisticated optical accents.



### **A shadow gap for discreet contrasts**

An interplay of bright and dark, light and shadow. A shadow gap runs between the white frame and the diamondised lower luminaire edge where no light is emitted. The contrast emphasises the high quality materials.



### **Lighting technology becomes an element of design**

Floating, lightweight, light. Lighting technology itself becomes an element of design. The ELDAICON® microprismatic structure blends perfectly with the discreet appearance of the luminaire, and light sources remain concealed from below. The lighting technology itself is given a harmonious appearance.



### **Brilliance via a diamondised surface**

Permanent brilliance along the complete line. The lower luminaire edge is polished to a highly specular finish with a complex milling method that also makes the surface extremely robust. The brushed and anodised frame profile is transformed into a clear and concise contour.

The Quadrature® 2 luminaire system offers maximum flexibility both as an individual luminaire and arranged on rails in a continuous row.



Anodised and laterally brushed frame profile

White printed trim

All-round shadow gap

ELDACON® microprismatic light control technology

Diamondised frame underside

Sectional aluminium profile with mitre cut



**A slender construction and a discreet appearance**

Thanks to its slender construction, all Quadrature® 2 versions are highly discreet. Viewed from below, the housing height appears to be merely the slender frame itself.

## Reduced to the essentials

No overloaded forms or disturbing volumes. The visible housing height of Quadrature® 2 is a mere 25 mm. The luminaire concept has been transferred to all standard versions: for recessed, surface-mounted and suspended mounting.

Quadrature® 2 – lighting tools that blend optimally with widely diverse rooms and architectural styles, emit a highly aesthetic quality, ensure freedom of design with light and offer optimal functionality.



### Recessed luminaire

The luminaire frame, flush with the ceiling, sets aesthetic accents especially with white ceilings.



### Surface mounted luminaire

According to the lighting task, available with direct light distribution or with slight ceiling illumination.



### Suspended luminaire

The luminaire can be installed with Y-wire suspension or double wire suspension according to requirements.



## ELDACON® for greater flexibility and wellbeing

Processes, work methods and room concepts change, but the fundamental need remains the same: harmonious light, balanced contrasts and a pleasant atmosphere. This is supplied confidently by Quadrature® 2 with its tried-and-proven ELDACON® lighting technology to create homogenous, glare-free light distribution to the working

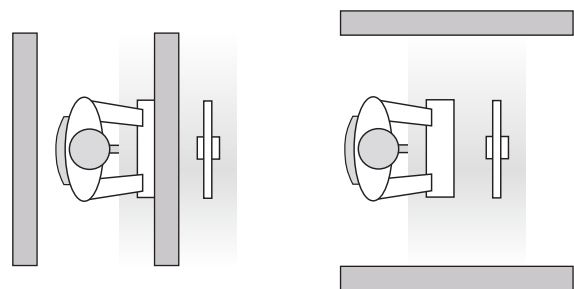
plane. This in turn allows luminaire layouts independent of the arrangement of desks, enabling a high level of flexibility for interior design. With versions featuring T16 lamps the lamps are integrated on the sides below the frame trim.

LED modules are also designed to prevent glare when



### Glare elimination

The diffuse light avoids disturbing reflections on computer screen surfaces, which in turn avoids viewing being disturbed to prevent the onset of tiredness.



### Flexibility

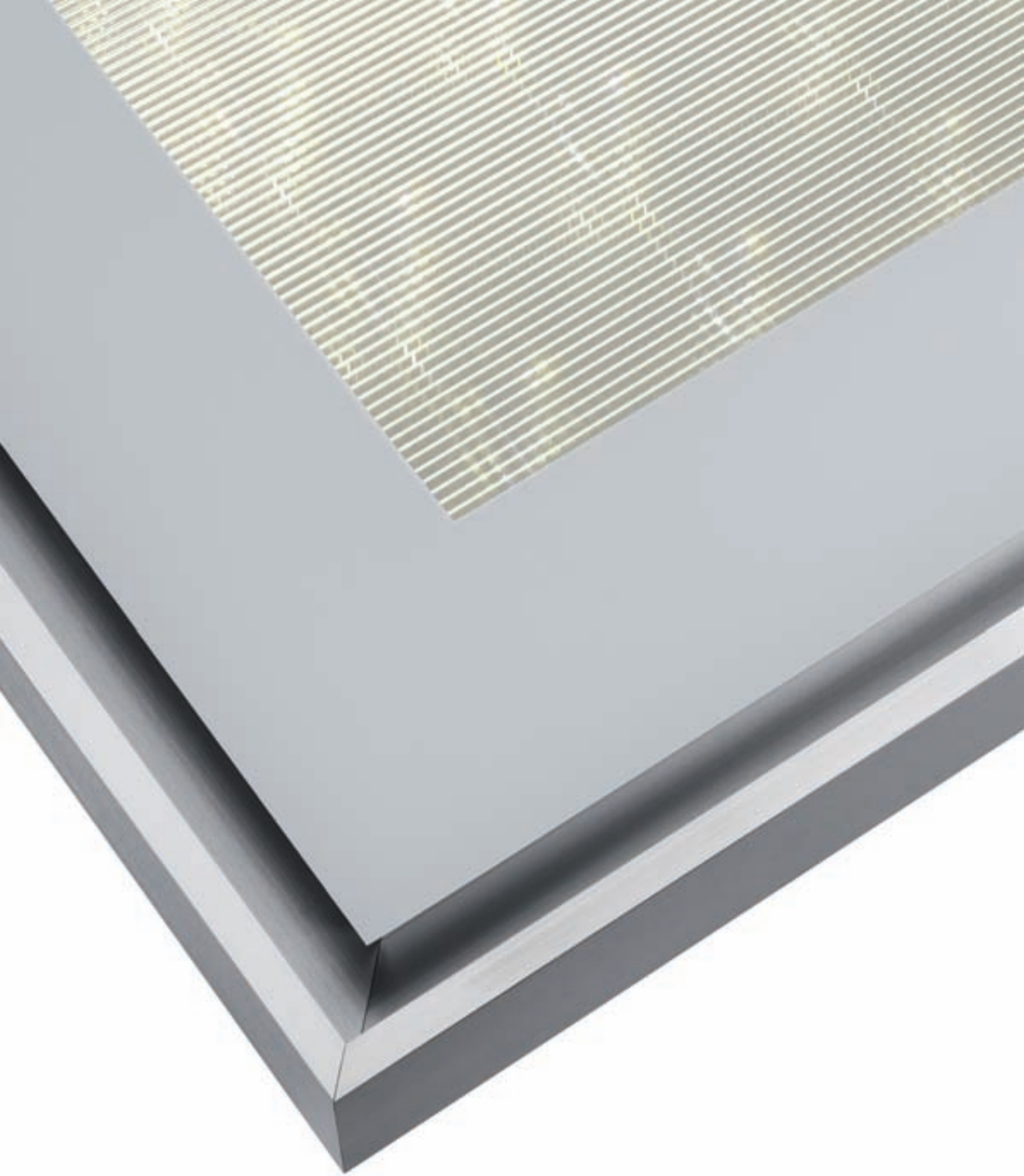
Thanks to maximum quality of light, a completely flexible arrangement of computer screens is possible on desks. This variability makes the system highly sustainable.



### ELDACON® – glare elimination via highly precise microprismatics

The complex, multilayered microprismatic structures of ELDACON® light control technology achieve outstanding glare elimination values. The highly precise microprisms guide light with a high level of uniformity onto the work surface. The luminous surfaces appear highly homogeneous and impart a crystal-clear, bright impression. Reflected glare below the luminaire is avoided and standard-compliant light is emitted with a UGR < 16.





#### **Innovation**



The LED version of Quadrature® 2 also emits outstanding light quality. ELDACON® microprismatic technology guides light with high uniformity onto the working plane.

## A wide range of tools for lighting design

It's the task that counts, the design of a room and its lighting. Quadrature® 2 correspondingly matches all standard ceiling systems. The direct distribution light components enable a wide variety of mounting possibilities: flush in suspended ceilings, mounted to concrete ceilings or to filigree, suspended rails. Luminaires with efficient T16 lamps, suitable for

wattages of 21 to 80 watts, achieve very high light output ratios, and recessed and surface-mounted LED versions with purely direct light distribution really convince with maximum service lives. The luminaires comply to the DALI standard, are dimmable, and versions with brightness and presence sensors are available.



**Recessed luminaire**    
597/597 mm (576/577 mm)  
622/622 mm (600/601 mm)



**Suspended luminaire**  
946/363 mm


**Surface mounted luminaire**  
946/363 mm

**Recessed luminaire**   
897/368 mm  
(871/337 mm)



**Suspended luminaire**  
1246/363 mm

**Surface mounted luminaire**   
1246/363 mm

**Recessed luminaire**    
1247/368 mm  
(1221/337 mm)



**Suspended luminaire**  
1546/363 mm

**Surface mounted luminaire**  
1546/363 mm

**Recessed luminaire**   
1497/368 mm  
(1471/337 mm)

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**Recessed luminaire**

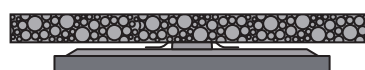
Quadrature® 2 recessed luminaire, module 600/625 for all standard ceilings, low rooms and downlight-similar applications.



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**Surface-mounted luminaire, direct distribution**

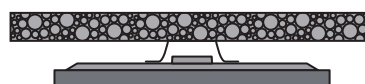
Quadrature® 2 surface-mounted luminaire for purely direct distribution. Thanks to the especially low construction height the luminaire blends elegantly with the ceiling.



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**Surface-mounted luminaire with ceiling illumination**

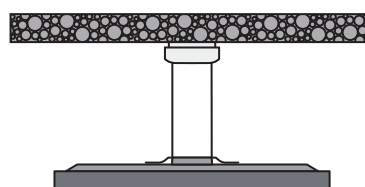
Quadrature® 2 surface-mounted luminaire with 10% ceiling illumination.



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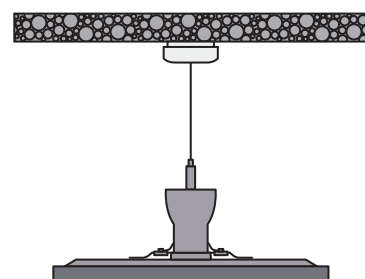
**Suspended luminaire with indirect component**

Quadrature® 2 suspended luminaire with 55% direct and 45% indirect light distribution.



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**System rails** enable rapid installation and a flexible configuration of the direct distribution light components. Indirect distribution light components can also be mounted to the rails.



## System rails for individual lighting concepts

Flexibility and precision go hand in hand. All surface-mounted and suspended Quadrature® 2 luminaires can be easily mounted to system rails and can be freely positioned. If an office layout is changed it just needs a few flicks of the wrist for a new lighting solution. The

system rails aid convenient luminaire installations with precisely positioned rows. These are wired ready for connection and equipped with two terminal blocks. When through-wired, one electrical connection suffices for a complete luminaire row.

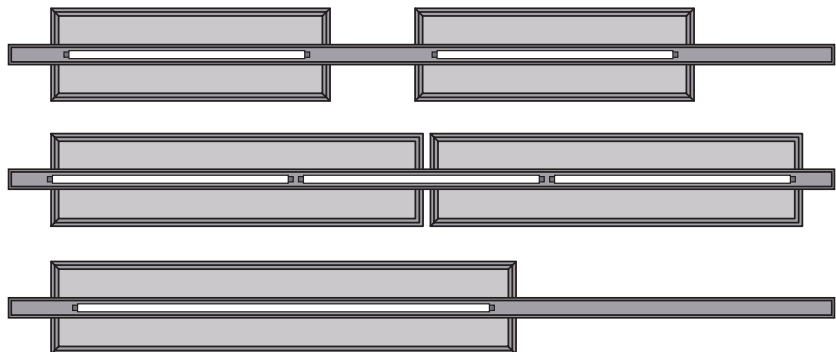


### Integrated light elements

Harmony is one sensation as a result of many factors. Direct and indirect lighting components can be combined for harmonious lighting concepts. The system rails are simply equipped with light elements to achieve effective general lighting. Special reflectors reflect wide distribution light to the ceiling.

### Flexible configurations

Light elements can be variably implemented, in diverse lengths, with various wattages, as single luminaires, with individual spacings or as continuous rows for any type of room concept. They can be arranged above the direct distribution Quadrature® 2 modules or between them, according to the desired effect.







Recessed or suspended, Quadrature® 2 offers convenient solutions for connection and maintenance.

**i**

**Convenient maintenance**

Quality becomes apparent through long-term use and care. In this regard, relamping and maintenance of Quadrature® 2 is carried out without tools. The suspended and surface-mounted versions features easy-to-use twist-lock catches for folding down the frame. This means that the fluorescent tubes behind the enclosure with the T16 luminaire version can be replaced with ease.

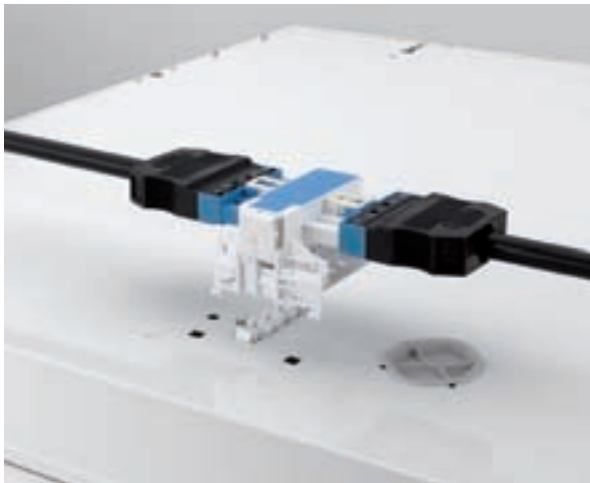




## Quick, safe connection of recessed luminaires

The new, standardised Linect® connection system for recessed luminaires enables both conventional mains connection and connection via the plug connection systems of various manufacturers. The system ensures planning safety through compatibility for all com-

ponents. Installation technology and selection of luminaires are no longer interdependent, and luminaires don't have to be opened any more for electrical connection. This can be carried out without specialist personnel and under voltage.



The connection terminal is on the rear of the recessed luminaire and is externally accessible. The plug connection is inserted into the matching T connector. For complete connection this only then needs to be inserted into the luminaire and pushed down until it clicks in.

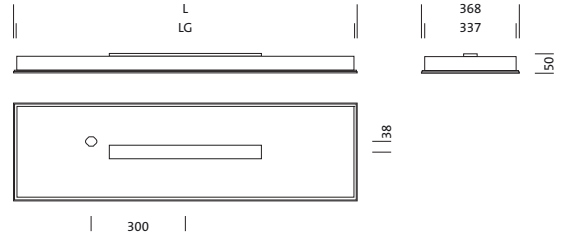


**Quadrature® 2 for ceiling recessing | CAT 2 with ELDACON® | direct distribution | for T16**

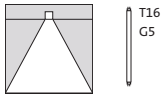
Quadrature® 2 ultra-flat individual luminaire ceiling recessing | CAT 2 with ELDACON®, CAT2(L≤ 1000cd/m²) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing of sheet steel, metallic grey (RAL 9006)

Protection rating: IP20 (IP43 for light emission aperture)

Insulation class: I



	L	LG
2 x T16 21W	897	871
2 x T16 28W / M600	1197	1171
2 x T16 28W / M625	1247	1221
2 x T16 35W	1497	1471

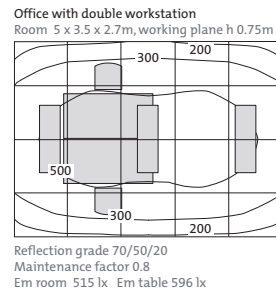
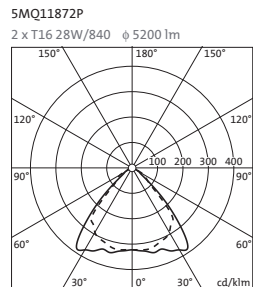


Lamps	Socket	Wt. (kg)	ECG Order No.	ECG DALI Order No.
<b>for M600 and for cut ceiling aperture</b>				
2x T16 28W	G5	10.1	5MQ12872P	5MQ128D2P
<b>for M625 and for cut ceiling aperture</b>				
2x T16 28W	G5	10.1	5MQ11872P	5MQ118D2P
<b>for cut ceiling aperture</b>				
2x T16 21W	G5	7.5	5MQ12872N	5MQ128D2N
2x T16 35W	G5	13.0	5MQ12872R	5MQ128D2R

- height H: housing height incl. ceiling-sided rim holes  
 - lay-in mounting not possible (please order mounting accessories separately)

**Mandatory accessories**

Article	PU	Order No.
mounting bracket for housing: B= 353mm, cl.range 34-45mm	set of 4	5LM59102
for housing: B= 353mm, cl.range 45-56mm   B= 597/622mm, cl.range 59-70mm	set of 4	5LM59104



No. of luminaires in room  
Reflection factors 70/50/20

Em(lx)	100	200	500
Lh(m)	2.5	3.0	2.5
20 m²	0.7	0.8	1.4
30 m²	1.1	1.2	2.5
40 m²	1.4	1.6	3.1
50 m²	1.7	1.8	3.7
75 m²	2.5	2.7	5.5
100 m²	3.3	3.5	7.0
500 m²	16	16	32

Maintenance factor 0.8 Rh = Lh

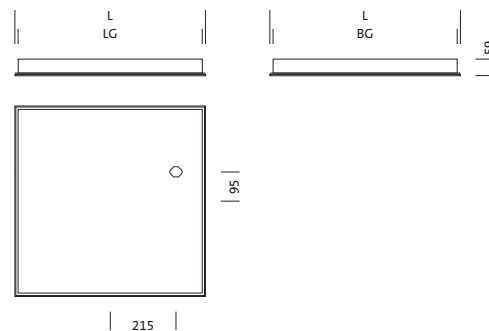


**Quadrature® 2 for ceiling recessing | CAT 2 with ELDACON® | direct distribution | for T16**

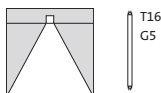
Quadrature® 2 ultra-flat individual luminaire ceiling recessing | CAT 2 with ELDACON®, CAT2(L≤ 1000cd/m²) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing of sheet steel, metallic grey (RAL 9006)

Protection rating: IP20 (IP43 for light emission aperture)

Insulation class: I



	L	LG	BG
M600 / 2 x T16 24W	597	578	576
M625 / 2 x T16 24W	622	600	601

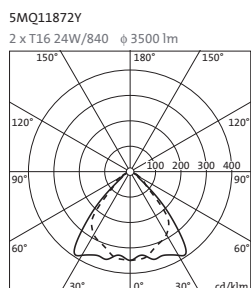


Lamps	Socket	Wt. (kg)	ECG Order No.	ECG DALI Order No.
<b>for M600 and for cut ceiling aperture</b>				
2x T16 24W	G5	7.6	5MQ12872Y	5MQ128D2Y
<b>for M625 and for cut ceiling aperture</b>				
2x T16 24W	G5	7.6	5MQ11872Y	5MQ118D2Y

- height H: housing height incl. ceiling-sided rim holes  
 - lay-in mounting not possible (please order mounting accessories separately)

**Mandatory accessories**

Article	PU	Order No.
mounting bracket for housing: B= 597/622mm, for T-profile H= 38mm	set of 4	5LM59101
mounting bracket for housing: B= 597/622mm, cl.range 37-48mm	set of 4	5LM59103
for housing: B= 353mm, cl.range 45-56mm   B= 597/622mm, cl.range 59-70mm	set of 4	5LM59104



**No. of luminaires in room**  
 Reflection factors 70/50/20

Em(lx)	100	200	500
Lh(m)	2.5	3.0	2.5
20 m²	1.0	1.2	2.0
30 m²	1.6	1.8	3.2
40 m²	2.1	2.3	4.2
50 m²	2.5	2.7	5.0
75 m²	3.7	4.1	7.4
100 m²	4.9	5.2	9.7
500 m²	23	24	46

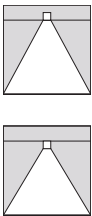
Maintenance factor 0.8 Rh = Lh



**Quadrature® 2 LED for ceiling surface-mounting or ceiling recessing | CAT 2 with ELDACON® | direct distribution**

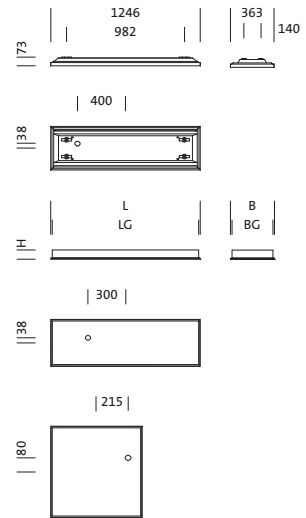
Quadrature® 2 LED ultra-flat individual luminaire for ceiling surface-mounting or recessing | with white LED (4000K); with ELDACON®, direct distribution, CAT2(Ls 1000cd/m²) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing part of sheet steel, metallic grey (RAL 9006)

Protection rating: IP20  
Insulation class: I



LED

IP 20



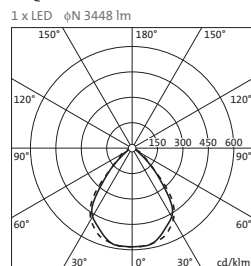
	L	B	H	LG	BG
5MQ11...P	1247	368	61	1221	337
5MQ12...P	1197	368	61	1171	337
5MQ11...Y	622	622	70	600	601
5MQ12...Y	597	597	70	578	576

Lamps	Colour rendering	L (mm)	Connected load	Luminous efficacy	Wt. (kg)	ECG Order No.
<b>surface-mounted, direct distribution</b>						
4x LED module	CRI >80	1246	47W	on request	10.6	5MQ2187LP
<b>recessed, for M600 and for cut ceiling aperture, direct distribution</b>						
4x LED module	CRI >80	597	47W	on request	8.8	5MQ1287LY
4x LED module	CRI >80	1197	47W	on request	10.2	5MQ1287LP
<b>recessed, for M625 and for cut ceiling aperture, direct distribution</b>						
4x LED module	CRI >80	622	47W	on request	9.2	5MQ1187LY
4x LED module	CRI >80	1247	47W	on request	10.5	5MQ1187LP

**Mandatory accessories**

Article	PU	Order No.
mounting bracket for housing: B= 353mm, cl.range 34-45mm	set of 4	5LM59102
mounting bracket for housing: B= 597/622mm, cl.range 37-48mm	set of 4	5LM59103
for housing: B= 353mm, cl.range 45-56mm   B= 597/622mm, cl.range 59-70mm	set of 4	5LM59104

5MQ2187LP



η<sub>l</sub> 100%

	C 0/180	C 90/270
L <sub>80</sub>	807	525
L <sub>70</sub>	933	716
L <sub>65</sub>	803	996

UGR 14.7 14.9  
X 4H Y 8H ρ 70/50/20 S 0.25H

**No. of luminaires in room**

Em(lx)	Reflection factors 70/50/20					
	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	0.7	0.8	1.4	1.6	3.6	4.0
30 m²	1.1	1.3	2.3	2.5	5.7	6.3
40 m²	1.5	1.6	2.9	3.2	7.3	8.0
50 m²	1.8	1.9	3.6	3.8	8.9	9.6
75 m²	2.7	2.8	5.3	5.7	13	14
100 m²	3.5	3.6	6.9	7.3	17	18
500 m²	16	17	33	34	82	84

Maintenance factor 0.8 Rh = Lh



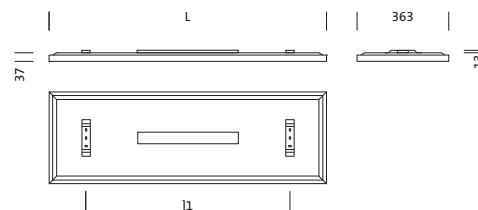
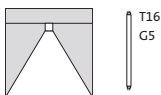
**Quadrature® 2 for ceiling surface mounting | CAT 2 with ELDACON® | direct distribution | for T16**

Quadrature® 2 ultra-flat individual luminaire for mounting close to ceiling | with ELDACON®, direct distribution, CAT2(L≤ 1000cd/m²) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing part of sheet steel, metallic grey (RAL 9006)

Protection rating: IP20

Insulation class: I

recommended installation method: mounting close to ceiling (a=13mm)



	L	l1
2 x T16 21W	946	580
2 x T16 28W	1246	880
2 x T16 35W	1546	1180

Lamps	Socket	Wt. (kg)	ECG Order No.	ECG DALI Order No.
2x T16 21W	G5	7.9	5MQ21872N	5MQ218D2N
2x T16 28W	G5	10.1	5MQ21872P	5MQ218D2P
2x T16 35W	G5	12.4	5MQ21872R	5MQ218D2R

- please order ceiling mounting separately

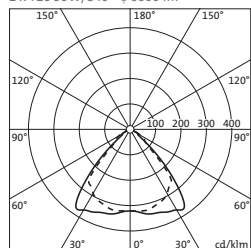
**Mandatory accessories**

Article	PU	Wt. (kg)	Order No.
ceiling mounting set, suspension height 12mm	set of 2	0.2	5LM59201

**5MQ218D2R**

2 x T16 35W/840 φ 6600 lm

η<sub>lamb</sub> 69.9%



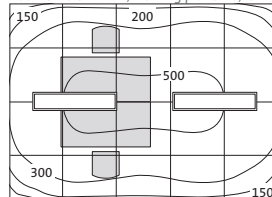
**Luminance values (cd/m²)**

	C 0/180	C 90/270
L <sub>80</sub>	905	694
L <sub>70</sub>	843	829
L <sub>50</sub>	931	1000
UGR	15.7	15

X 4H Y 8H ρ 70/50/20 S 0.25H

**Office with double workstation**

Room 5 x 3.5 x 2.7m, working plane h 0.75m



Reflection grade 70/50/20  
Maintenance factor 0.8  
Em room 540lx Em table 601lx

**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	0.5	0.6	1.1	1.2	2.7	3.1
30 m²	0.8	1.0	1.7	1.9	4.2	4.8
40 m²	1.1	1.2	2.2	2.4	5.5	6.1
50 m²	1.3	1.4	2.7	2.9	6.6	7.2
75 m²	2.0	2.2	4.0	4.3	9.9	11
100 m²	2.6	2.7	5.2	5.5	13	14
500 m²	12	13	25	25	61	63

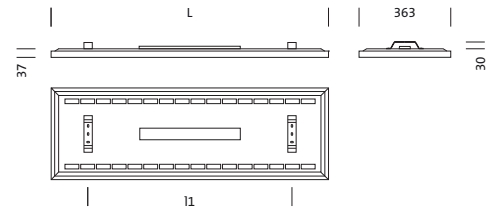
Maintenance factor 0.8

Rh = Lh

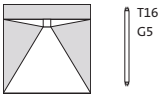


**Quadrature® 2 for ceiling surface mounting | CAT 2 with ELDACON® | direct distribution with ceiling illumination | for T16**

Quadrature® 2 ultra-flat individual luminaire for mounting close to ceiling | with ELDACON®, direct distribution with ceiling illumination, CAT2(L≤ 1000cd/m²) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing part of sheet steel, metallic grey (RAL 9006)



	L	l1
2 x T16 21W	946	580
2 x T16 28W	1246	880
2 x T16 35W	1546	1180



Protection rating: IP20

Insulation class: I

recommended installation method: mounting close to ceiling (a=30mm)



Lamps	Socket	Wt. (kg)	ECG Order No.	ECG DALI Order No.
<b>direct distribution, with ceiling illumination</b>				
2x T16 21W	G5	7.8	5MQ24872N	5MQ248D2N
2x T16 28W	G5	9.9	5MQ24872P	5MQ248D2P
2x T16 35W	G5	12.1	5MQ24872R	5MQ248D2R

- please order ceiling mounting separately

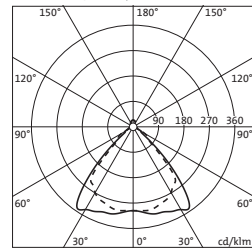
**Mandatory accessories**

Article	PU	Wt. (kg)	Order No.
ceiling mounting set, suspension height 30mm	set of 2	0.2	5LM59202

**5MQ24872P**

2 x T16 28W/840 φ 5200 lm

η<sub>us</sub> 69.6% φ<sub>d</sub> 93% φ<sub>r</sub> 7%



**Luminance values (cd/m²)**

	C 0/180	C 90/270
L <sub>80</sub>	857	657
L <sub>70</sub>	840	820
L <sub>65</sub>	918	991

UGR 15.5 14.8  
X 4H Y 8H p 70/50/20 S 0.25H

**No. of luminaires in room**

Reflection factors 70/50/20

Em (lx)	100	200	500
Lh(m)	2.5 3.0 2.5 3.0 2.5 3.0		
20 m²	0.7 0.8 1.4 1.6 3.6 4.1		
30 m²	1.1 1.3 2.3 2.6 5.7 6.5		
40 m²	1.5 1.6 3.0 3.3 7.4 8.2		
50 m²	1.8 1.9 3.6 3.9 8.9 9.7		
75 m²	2.7 2.9 5.3 5.8 13 14		
100 m²	3.4 3.7 6.9 7.3 17 18		
500 m²	16 17 33 33 81 83		

Maintenance factor 0.8 Rh = Lh + 0.5 m

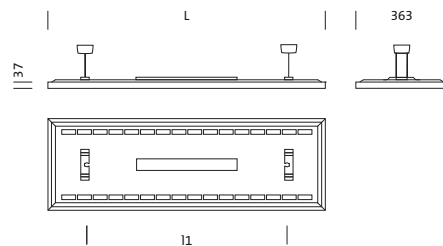


**Quadrature® 2 for suspended mounting | CAT 2 with ELDACON® | direct distribution | for T16**

Quadrature® 2 ultra-flat individual luminaire for suspended mounting | with ELDACON®, direct/indirect distribution, CAT 2 ( $L \leq 1000 \text{cd/m}^2$ ) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing part of sheet steel, metallic grey (RAL 9006)

Protection rating: IP20  
Insulation class: I

recommended installation method: suspended mounting as single luminaire



	L	11
2 x T16 21/39W	946	720
2 x T16 28/54W	1246	1020
2 x T16 35/49W	1546	1320
2 x T16 80W	1546	1320



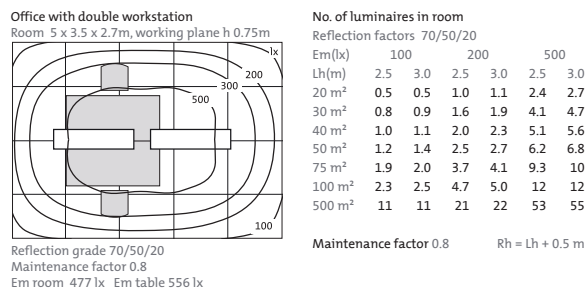
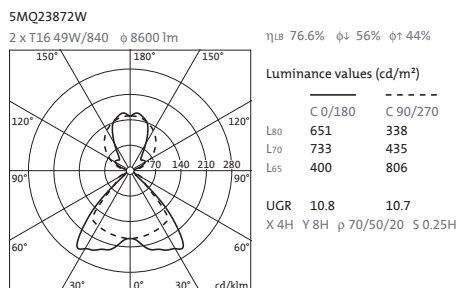
Lamps	Socket	Wt. (kg)	ECG Multiwatt Order No.	ECG Multiwatt(DALI) Order No.
<b>direct/indirect distribution</b>				
2x T16 21/39W	G5	7.7	5MQ23872L	5MQ238D2L
2x T16 28/54W	G5	9.8	5MQ23872H	5MQ238D2H
2x T16 35/49W	G5	12.0	5MQ23872W	5MQ238D2W

Lamps	Socket	Wt. (kg)	ECG Order No.	ECG DALI Order No.
<b>direct/indirect distribution</b>				
2x T16 80W	G5	12.0	5MQ23872X	5MQ238D2X

- please order suspension kit separately

**Mandatory accessories**

Article	Wt. (kg)	Order No.
Y wire suspension, with grey canopy	0.2	5LM59311A
Y wire suspension, with ceiling mounting element	0.1	5LM59301A
double wire suspension, with grey canopy	0.2	5LF91302A
double wire suspension, with grey canopy, with clamp	0.2	5LF91312A
double wire suspension, with white canopy	0.2	5LF91302
double wire suspension, with white canopy, with clamp	0.2	5LF91312
connection cable, 3x 0.75 mm <sup>2</sup> , transparent, L= 750 mm, with clamp	0.1	5LF90001L
connection cable, 3x 0.75 mm <sup>2</sup> , transparent, L= 1400 mm, with clamp	0.1	5LF90002L
connection cable, 5x 0.75 mm <sup>2</sup> , transparent, L= 1400 mm, with clamp	0.1	5LF90005L

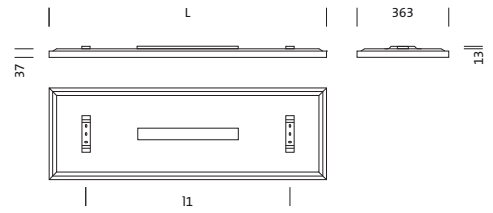




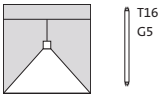
**Quadrature® 2 light module for rail system | CAT 2 with ELDACON® | direct distribution | for T16**

Quadrature® 2 luminaire module for mounting to system rail | with ELDACON®, direct distribution, CAT2 ( $L \leq 1000 \text{cd/m}^2$ ) | with ECG | visible frame of anodised extruded aluminium, brushed vertical sides, highly specular underside; upper housing part of sheet steel, metallic grey (RAL 9006)

Protection rating: IP20  
Insulation class: I



	L	11
2 x T16 21W	946	580
2 x T16 28W	1246	880
2 x T16 35W	1546	1180



Lamps	Socket	Wt. (kg)	ECG Order No.	ECG DALI Order No.
direct distribution				
2x T16 21W	G5	7.9	5MQ21872N	5MQ218D2N
2x T16 28W	G5	10.1	5MQ21872P	5MQ218D2P
2x T16 35W	G5	12.4	5MQ21872R	5MQ218D2R

- please order system rail and system components separately

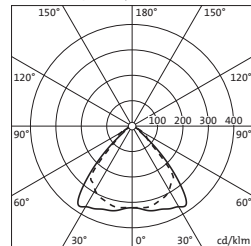
**Mandatory accessories**

Article	PU	Wt. (kg)	Order No.
mounting set, light grey	set of 2	0.3	5MQ593040S

**5MQ21872P**

2 x T16 28W/840  $\phi$  5200 lm

$\eta_{LB}$  69.9%



**Luminance values (cd/m²)**

	C 0/180	C 90/270
L <sub>90</sub>	900	690
L <sub>70</sub>	838	825
L <sub>50</sub>	926	994

UGR 15.7 15  
X.4H Y.8H  $\rho$  70/50/20 S.0.25H

**No. of luminaires in room**

Reflection factors 70/50/20

Em(lx)	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 m²	0.7	0.8	1.4	1.6	3.4	3.9
30 m²	1.1	1.2	2.2	2.4	5.4	6.1
40 m²	1.4	1.5	2.8	3.1	7.0	7.7
50 m²	1.7	1.8	3.4	3.7	8.4	9.2
75 m²	2.5	2.7	5.0	5.5	13	14
100 m²	3.3	3.5	6.5	7.0	16	17
500 m²	16	16	31	32	78	80

Maintenance factor 0.8

Rh = Lh



**Quadrature® 2 system rail for rail system**

Quadrature® 2 system rail for suspended mounting |  
wired or unwired | extruded aluminium rail, anodised

Protection rating: IP20

Insulation class: I

Electrical  
System rail wired ready for connection, with two terminals, 6-pole max. 2.5mm<sup>2</sup>, and 6x 1.5mm<sup>2</sup> for through wiring



	L
5MQ530010S / 5MQ530110S	1800
5MQ530020S / 5MQ530120S	2700
5MQ530030S / 5MQ530130S	3600

L (mm)	Wt. (kg)	Order No.
<b>trunking rail</b>		
1800	2.3	5MQ530010S
2700	3.3	5MQ530020S
3600	4.3	5MQ530030S

<b>trunking rail, with thr. wiring 6 x 1.5mm<sup>2</sup></b>		
1800	2.4	5MQ530110S
2700	3.5	5MQ530120S
3600	4.5	5MQ530130S

Mandatory accessories

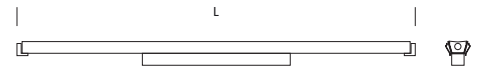
Article	PU	Wt. (kg)	Order No.
end cap, metallic grey (RAL9006)	set of 2	0.2	5LM593060S
connector, steel, galvanised		0.2	5LM59307
wall flange, metallic grey (RAL 9006), sheet steel, galvanised, powder-coated		0.3	5MQ593080S
single-wire suspension, with grey canopy, with clamp, with mounting bracket, recessed		0.2	5LM593120S
single-wire suspension, with white canopy, with clamp, with mounting bracket, recessed		0.2	5LM593120W
single-wire suspension, with ceiling mounting element, with mounting bracket, recessed		0.1	5LM593020S
single-wire suspension, with ceiling mounting element, with mounting bracket, heightened		0.1	5LM593010S
connection cable, 3x 0.75 mm <sup>2</sup> , transparent, L= 750 mm, with clamp		0.1	5LF90001L
connection cable, 3x 0.75 mm <sup>2</sup> , transparent, L= 1400 mm, with clamp		0.1	5LF90002L
connection cable, 5x 0.75 mm <sup>2</sup> , transparent, L= 1400 mm, with clamp		0.1	5LF90005L



**Quadrature® 2 light insert for system rail | indirect distribution | for T16**

Quadrature® light insert for installing in suspended system rail | with aluminium reflector, indirect distribution | with ECG

Protection rating: IP20  
 Insulation class: I  
 (with lamps, light colour 840)



	L
1xT16 21/39W	905
1xT16 28/54W	1205
1xT16 35/49/80W	1505

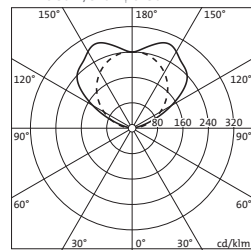


T16  
G5

Lamps	Socket	Wt. (kg)	ECG Multiwatt Order No.	ECG Multiwatt(DALI) Order No.
<b>indirect distribution</b>				
1x T16 21/39W	G5	0.6	5MQ54071L	5MQ540D1L
1x T16 28/54W	G5	0.7	5MQ54071H	5MQ540D1H
1x T16 35/49/80W	G5	0.8	5MQ54071Q	5MQ540D1Q

- please order system rail and system components separately

5MQ54071Q  
 1 x T16 80W/840  $\phi$  6150 lm  $\eta_{lm}$  85.1%





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