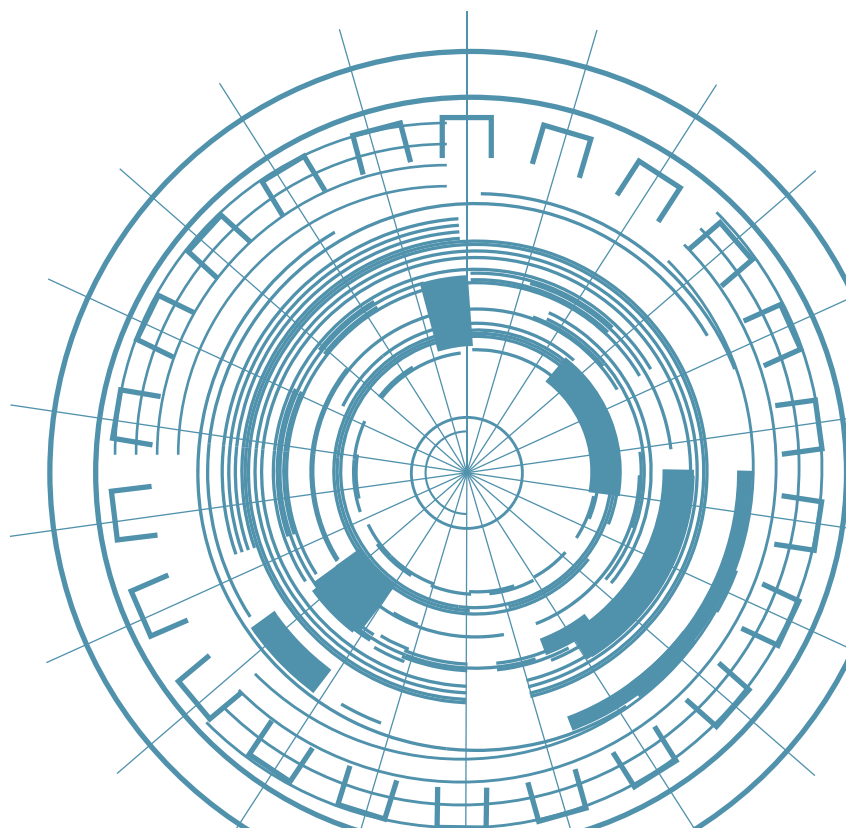


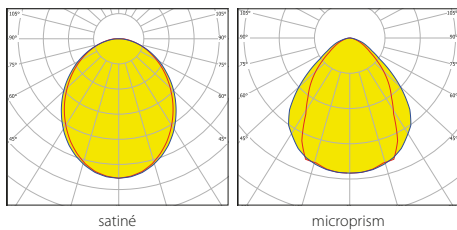
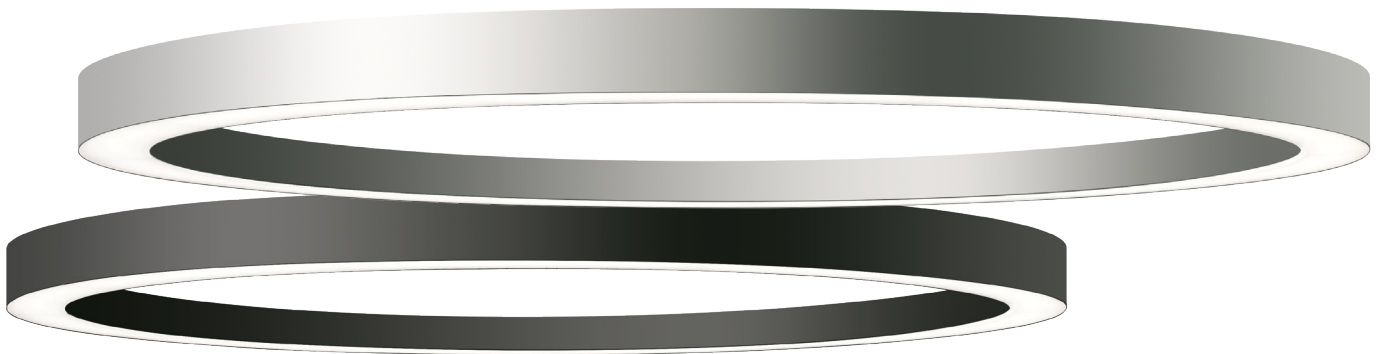
sinus
FOCUS

 planlicht



sinus

Aufbauleuchte | Surface-mount luminaire | Luminaires en saillie | Apparecchio a plafone



230V IP40 $R_a > 80$ up to L90/50.000h MacAdam 3 DALI switchDIM



LED

3000K, 4000K, dynamic white

up to 118 lm/W

$R_a > 80$, MacAdam 3

non-dim/DALI

IEC 62471: Blue light hazard: RG ≤ 1

Lifetime up to L90/50.000h

Optic

direct

satiné

microprism for reduced brightness (LRA)

Options

Emergency lighting 3h

RAL of your choice

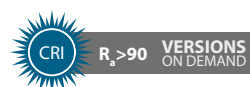
Housing

powder coated

RAL 9006

RAL 9016

RAL 9005



1 Dimension

| | |
|-----------|-----|
| ø 1174 mm | 117 |
| ø 1530 mm | 153 |
| ø 2950 mm | 295 |
| ø 5790 mm | 579 |

2 Gehäusefarbe | Housing colour | Couleur du luminaire | Colore profilo

| | |
|-----------------------------------------------|------|
| silber silver argent argento (RAL 9006) | 9006 |
| weiß white blanc bianco (RAL 9016) | 9016 |
| schwarz black noir nero (RAL 9005) | 9005 |
| RAL colours on request (p. 449) | |

3 Farbtemperatur | Colour temperature | Température de couleur | Temperatura colore

| | |
|-----------------------------|-----|
| 3000 K | 830 |
| 4000 K | 840 |
| 2700 - 6500 K dynamic white | HCL |

4 Output

| | |
|--------------------|----|
| low output non-dim | L1 |
| low output DALI | L3 |
| high output DALI | H3 |
| dynamic white | X3 |

5 Diffusoren | Diffusers | Diffuseurs | Diffusori

| | |
|------------|---|
| satiné | S |
| microprism | M |

Beispiel | Example | Exemple | Esempio

ø 1174 mm, white, 4000 K, high output DALI, satiné
R33A117-9016E1840H3S

Luminous Flux (lm)

| 4000 K satiné | high output | | low output | |
|---------------|-------------|-----------|------------|-----------|
| | ø 1174 mm | ø 1530 mm | ø 1174 mm | ø 1530 mm |
| ø 1174 mm | 8180 lm | 11068 lm | 4768 lm | 6388 lm |
| ø 1530 mm | 22768 lm | 45536 lm | 12508 lm | 25016 lm |

System Power (W)

| | high output | | low output | | dynamic white | |
|-----------|-------------|-----------|------------|-----------|---------------|-----------|
| | ø 1174 mm | ø 1530 mm | ø 1174 mm | ø 1530 mm | ø 2950 mm | ø 5790 mm |
| ø 1174 mm | 83 W | 108 W | 51 W | 63 W | 90 W | 426 W |
| ø 1530 mm | 213 W | 426 W | 116 W | 215 W | 215 W | 231 W |

Weight (kg)

| | |
|-----------|---------|
| ø 1174 mm | 17,8 kg |
| ø 1530 mm | 23,2 kg |
| ø 2950 mm | 32,2 kg |
| ø 5790 mm | 63,1 kg |

COMPARE LIGHT COLOUR

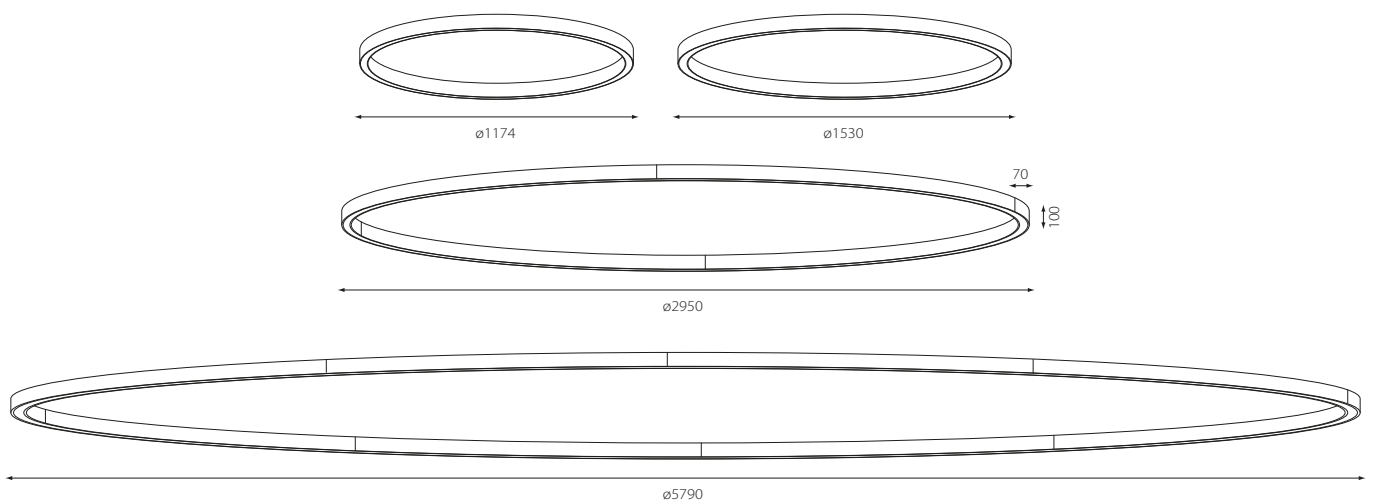
| Luminous Flux (lm) | 3000 K | | 4000 K | | dynamic white 2700 - 6500 K 10095 lm |
|---------------------|-------------|------------|-------------|------------|--------------------------------------------|
| | high output | low output | high output | low output | |
| satiné ø 1530 mm | 10748 lm | 6208 lm | 11068 lm | 6388 lm | |



* Der angegebene Lichtstrom bezieht sich auf die Leuchte mit klarer mikroprismatischer Abdeckung. Die Leuchte wird mit satinierter Folie zur Erhöhung der Homogenität geliefert (-9,5% Lichtstrom).
 * The indicated luminous flux corresponds to the luminaire with a clear microprismatic diffuser. The luminaire is delivered with a satinized-foil for increased homogeneity (-9.5% luminous flux).
 * Le flux lumineux indiqué correspond au luminaire avec diffuseur microprismatique transparent. Le luminaire est livré avec un film satiné pour optimiser l'homogénéité (-9,5% sur le flux lumineux).
 * Il flusso luminoso indicato corrisponde all'apparecchio con diffusore microprismatico trasparente. La lampada è fornita con una pellicola satinata per ottimizzare l'omogeneità (-9.5% del flusso luminoso).

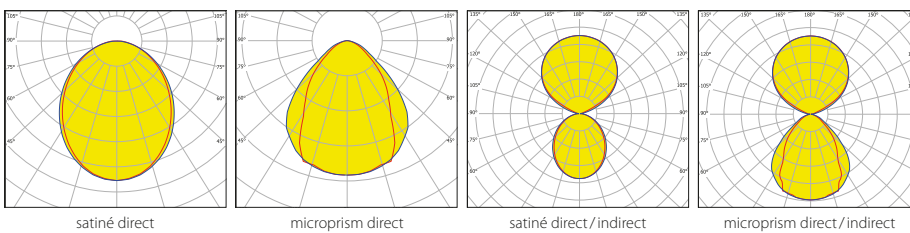
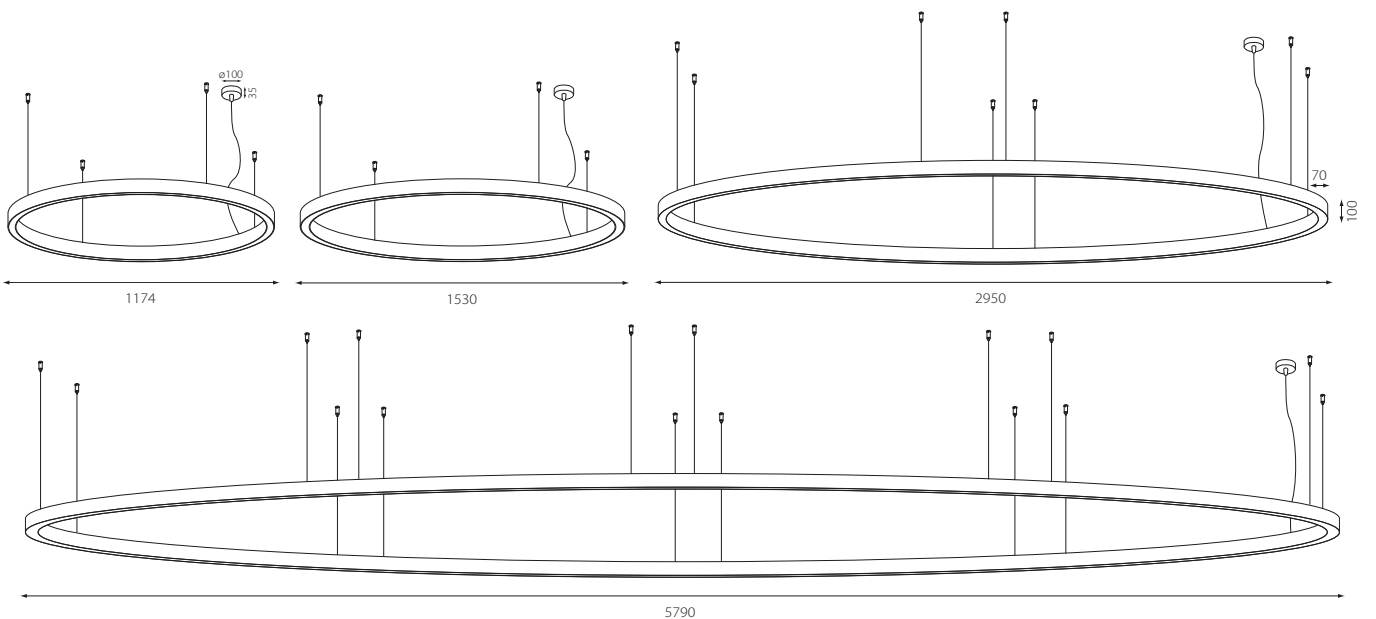
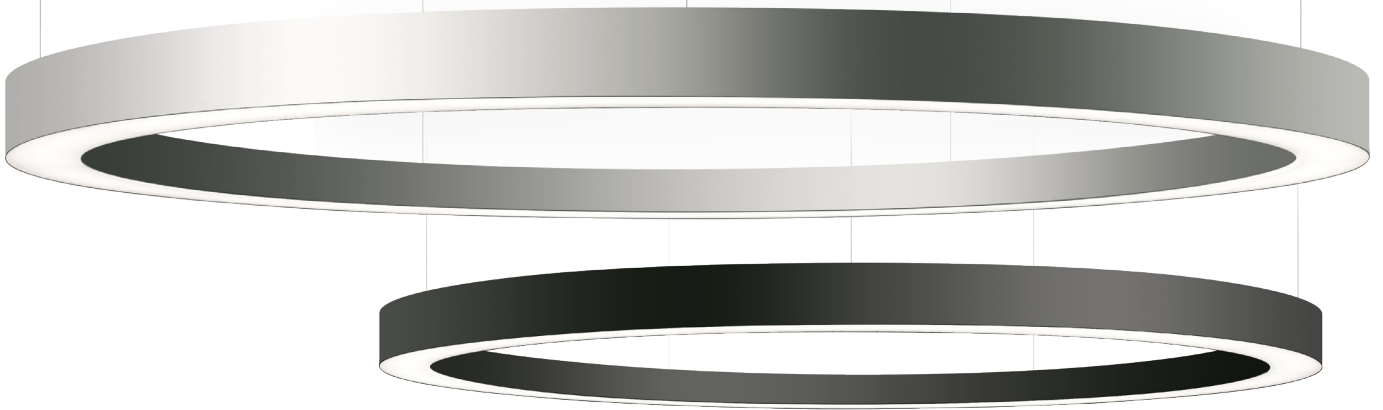
COMPARE COVER

| Luminous Flux (lm) | satiné | | microprism* | |
|---------------------|-------------|------------|-------------|------------|
| | high output | low output | high output | low output |
| 4000 K ø 1530 mm | 11068 lm | 6388 lm | 12116 lm | 6928 lm |



sinus

Hängeleuchte | Pendant luminaire | Suspensions | Sospensione






230V IP40 $R_a > 80$ up to L90/50.000h MacAdam 3 DALI switchDIM



LED
 3000K, 4000K, dynamic white
 up to 140lm/W
 $R_a > 80$, MacAdam 3
 non-dim/DALI
 IEC 62471: Blue light hazard: $RG \leq 1$
 Lifetime up to L90/50.000h

Optic
 direct
 direct/indirect
 satiné
 microprism for reduced brightness (LRA)

Options
 Emergency lighting 3h
 RAL of your choice
 7 cable colours
 Central suspension

Housing
 powder coated
 RAL 9006 
 RAL 9016 
 RAL 9005 



1 Dimension

| | |
|-----------|-----|
| ø 1174 mm | 117 |
| ø 1530 mm | 153 |
| ø 2950 mm | 295 |
| ø 5790 mm | 579 |

2 Gehäusefarbe | Housing colour | Couleur du luminaire | Colore profilo

| | |
|-----------------------------------------------|------|
| silber silver argent argento (RAL 9006) | 9006 |
| weiß white blanc bianco (RAL 9016) | 9016 |
| schwarz black noir nero (RAL 9005) | 9005 |

RAL colours on request

3 direct | direct / indirect

| | |
|-------------------|---|
| direct | 1 |
| direct / indirect | 2 |

4 Farbtemperatur | Colour temperature | Température de couleur | Temperatura colore

| | |
|-----------------------------|-----|
| 3000 K | 830 |
| 4000 K | 840 |
| 2700 - 6500 K dynamic white | HCL |

5 Output

| | |
|--------------------|----|
| low output non-dim | L1 |
| low output DALI | L3 |
| high output DALI | H3 |
| dynamic white | X3 |

6 Diffusoren | Diffusers | Diffuseurs | Diffusori

| | |
|------------|---|
| satiné | S |
| microprism | M |

Beispiel | Example | Exemple | Esempio

ø 1174 mm, white, direct, 4000 K, high output DALI, satiné

R33H117-9016E1840H3S

| Luminous Flux (lm) | direct | | direct / indirect | |
|----------------------|-------------|------------|-------------------|------------|
| | high output | low output | high output | low output |
| 4000 K satiné | | | | |
| ø 1174 mm | 8180 lm | 4768 lm | 20592 lm | 11952 lm |
| ø 1530 mm | 11068 lm | 6388 lm | 27696 lm | 15892 lm |
| ø 2950 mm | 22768 lm | 12508 lm | 55392 lm | 31800 lm |
| ø 5790 mm | 45536 lm | 25016 lm | 110784 lm | 63600 lm |

| System Power (W) | direct | | | direct / indirect | | |
|------------------|-------------|------------|---------------|-------------------|------------|---------------|
| | high output | low output | dynamic white | high output | low output | dynamic white |
| ø 1174 mm | 83 W | 51 W | 90 W | 158 W | 90 W | 160 W |
| ø 1530 mm | 108 W | 63 W | 112 W | 213 W | 116 W | 216 W |
| ø 2950 mm | 213 W | 116 W | 215 W | 426 W | 222 W | 431 W |
| ø 5790 mm | 426 W | 231 W | 430 W | 853 W | 443 W | 862 W |

| Weight (kg) | |
|-------------|---------|
| ø 1174 mm | 17,8 kg |
| ø 1530 mm | 23,2 kg |
| ø 2950 mm | 32,2 kg |
| ø 5790 mm | 63,1 kg |

COMPARE LIGHT COLOUR

| Luminous Flux (lm) | 3000 K | | 4000 K | | dynamic white 2700-6500 K |
|--------------------|-------------|------------|-------------|------------|------------------------------|
| | high output | low output | high output | low output | |
| satiné | | | | | |
| ø 1530 mm direct | 10748 lm | 6208 lm | 11068 lm | 6388 lm | 10095 lm |
| ø 1530 mm di / id | 26800 lm | 16020 lm | 27696 lm | 15892 lm | 24664 lm |

COMPARE COVER

| Luminous Flux (lm) | satiné | | microprism | |
|--------------------|-------------|------------|-------------|------------|
| | high output | low output | high output | low output |
| 4000 K | | | | |
| ø 1530 mm direct | 11068 lm | 6388 lm | 12116 lm | 6928 lm |
| ø 1530 mm di / id | 27696 lm | 15892 lm | 28872 lm | 16460 lm |





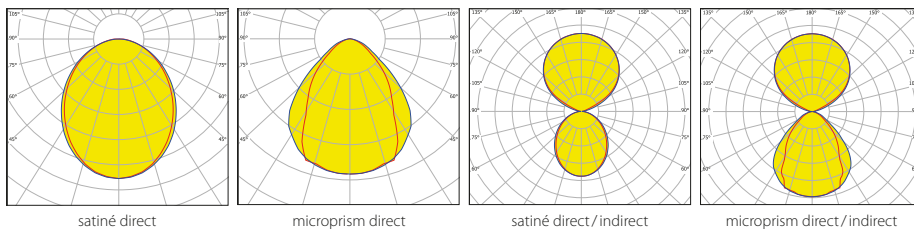
Landkreis Erlangen / Germany



Landkreis Erlangen / Germany

sinus quiet

Hängeleuchte | Pendant luminaire | Suspensions | Sospensione



A++ **A**

230V IP40 $R_a > 80$ up to L90/50.000h MacAdam 3 DALI switchDIM



LED

3000K, 4000K, dynamic white

up to 140lm/W

$R_a > 80$, MacAdam 3

non-dim/DALI

IEC 62471: Blue light hazard: $RG \leq 1$

Lifetime up to L90/50.000h

Optic

direct

direct/indirect

satiné

microprism for reduced brightness (LRA)



Options

Emergency lighting 3h

4 Organoid® & 7 felt sound absorbers

7 cable colours

RAL of your choice

Central suspension

Housing

powder coated

RAL 9006

RAL 9016

RAL 9005

1 Dimension

| | |
|-----------|-----|
| ø 1174 mm | 117 |
| ø 1530 mm | 153 |

2 Akustik Modul | Acoustic module | Panneau acoustique | Modulo acustico

| | |
|----------------------------------------|----|
| QUIET.FELT standard anthracite melange | QA |
| QUIET.FELT standard pebble | QP |
| QUIET.FELT standard lime | QL |
| QUIET.FELT extra+ black * | QB |
| QUIET.FELT extra+ fire * | QF |
| QUIET.FELT extra+ light grey melange * | QG |
| QUIET.FELT extra+ chocolate * | QC |
| Organoid® Mous * | QM |
| Organoid® Wollä * | QW |
| Organoid® Wildspitze * | QH |

* QUIET.FELT extra+ & Organoid® on demand

3 Gehäusefarbe | Housing colour | Couleur du luminaire | Colore profilo

| | |
|-----------------------------------------------|----|
| silber silver argent argento (RAL 9006) | SI |
| weiß white blanc bianco (RAL 9016) | WS |
| schwarz black noir nero (RAL 9005) | SW |

RAL colours on request (p. 449)

4 direct | direct / indirect

| | |
|-------------------|---|
| direct | 1 |
| direct / indirect | 2 |

5 Farbtemperatur | Colour temperature | Température de couleur | Temperatura colore

| | |
|-----------------------------|-----|
| 3000 K | 830 |
| 4000 K | 840 |
| 2700 - 6500 K dynamic white | HCL |

6 Output

| | |
|--------------------|----|
| low output non-dim | L1 |
| low output DALI | L3 |
| high output DALI | H3 |
| dynamic white | X3 |

7 Diffusoren | Diffusers | Diffuseurs | Diffusori

| | |
|------------|---|
| satiné | S |
| microprism | M |

Beispiel | Example | Exemple | Esempio

ø 1174 mm, standard pebble, white, direct, 4000 K, high output DALI, satiné
R33H117-QPWSE1840H3S

| Luminous Flux (lm) | direct | | direct / indirect | |
|--------------------|-------------|------------|-------------------|------------|
| | high output | low output | high output | low output |
| 4000 K satiné | | | | |
| ø 1174 mm | 8180 lm | 4768 lm | 20592 lm | 11952 lm |
| ø 1530 mm | 11068 lm | 6388 lm | 27696 lm | 15892 lm |

| Weight (kg) | Organoid |
|-------------------|----------|
| ø 1174 mm direct | 18,6 kg |
| ø 1530 mm direct | 24,8 kg |
| ø 1174 mm di / id | 14,7 kg |
| ø 1530 mm di / id | 20,2 kg |

| System Power (W) | direct | | | direct / indirect | | |
|------------------|-------------|------------|---------------|-------------------|------------|---------------|
| | high output | low output | dynamic white | high output | low output | dynamic white |
| ø 1174 mm | 83 W | 51 W | 90 W | 158 W | 90 W | 160 W |
| ø 1530 mm | 108 W | 63 W | 112 W | 213 W | 116 W | 216 W |

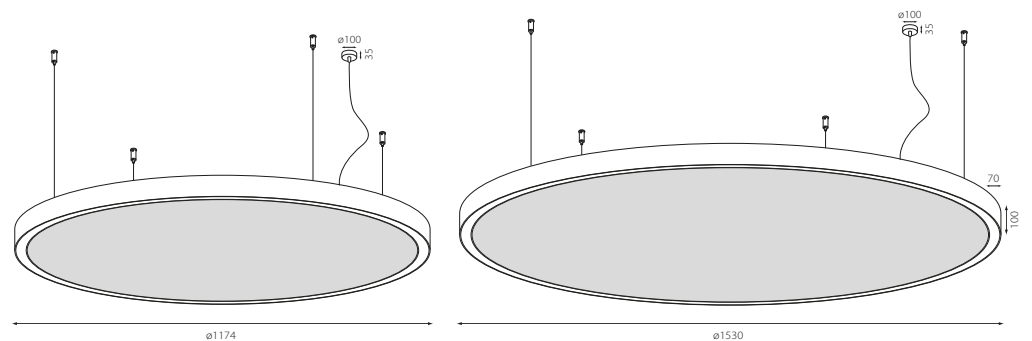


COMPARE LIGHT COLOUR

| Luminous Flux (lm) | 3000 K | | 4000 K | | dyn. white |
|--------------------|-------------|------------|-------------|------------|-------------|
| | high output | low output | high output | low output | 2700-6500 K |
| satiné | | | | | |
| ø 1530 mm direct | 10748 lm | 6208 lm | 11068 lm | 6388 lm | 10095 lm |
| ø 1530 mm indirect | 26800 lm | 16020 lm | 27696 lm | 15892 lm | 24664 lm |

COMPARE COVER

| Luminous Flux (lm) | satiné | | microprism | |
|--------------------|-------------|------------|-------------|------------|
| | high output | low output | high output | low output |
| 4000 K | | | | |
| ø 1530 mm direct | 11068 lm | 6388 lm | 12116 lm | 6928 lm |
| ø 1530 mm indirect | 27696 lm | 15892 lm | 28872 lm | 16460 lm |

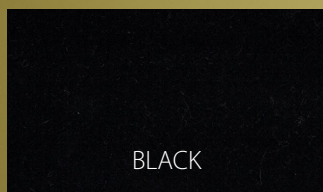


FELT.QUIET

STANDARD



EXTRA +



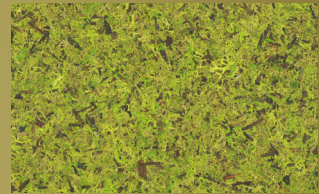
ORGANOID®



WILDSPITZE
[vɪltʃpɪtsə]



WOLLÄ
[ˈvɔlə]



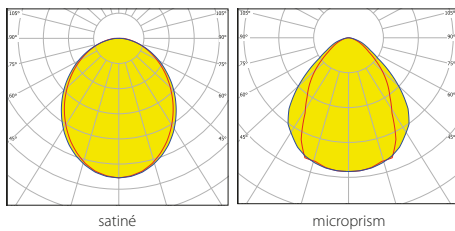
MOUS
[ˈmøʊz]



Rendering

sinus frame

Einbauleuchte | Recessed luminaire | Luminaire encastré | da incasso



Cut out ✂

| DIMENSION | ø DIAMETER | ↑ DEPTH |
|-----------|------------------|---------|
| ø 1190 mm | ø 1181 / 1027 mm | 90 mm |
| ø 1546 mm | ø 1537 / 1383 mm | 90 mm |
| ø 2966 mm | ø 2957 / 2803 mm | 90 mm |
| ø 5806 mm | ø 5797 / 5643 mm | 90 mm |



230V IP40 $R_a > 80$ up to L90/50.000h

MacAdam 3 DALI switchDIM



LED

3000K, 4000K, dynamic white

up to 120lm/W

$R_a > 80$, MacAdam 3

non-dim/DALI

IEC 62471: Blue light hazard: $RG \leq 1$

Lifetime up to L90 / 50.000h

Optic

direct

satiné

microprism for reduced brightness (LRA)

Options

Emergency lighting 3h

RAL of your choice

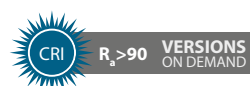
Housing

powder coated

RAL 9006

RAL 9016

RAL 9005



1 Dimension

| | |
|-----------|-----|
| ø 1190 mm | 119 |
| ø 1546 mm | 154 |
| ø 2966 mm | 296 |
| ø 5806 mm | 580 |

2 Gehäusefarbe | Housing colour | Couleur du luminaire | Colore profilo

| | |
|-----------------------------------------------|------|
| silber silver argent argento (RAL 9006) | 9006 |
| weiß white blanc bianco (RAL 9016) | 9016 |
| schwarz black noir nero (RAL 9005) | 9005 |
| RAL colours on request (p. 449) | |

3 Farbtemperatur | Colour temperature | Température de couleur | Temperatura colore

| | |
|-----------------------------|-----|
| 3000 K | 830 |
| 4000 K | 840 |
| 2700 - 6500 K dynamic white | HCL |

4 Output

| | |
|--------------------|----|
| low output non-dim | L1 |
| low output DALI | L3 |
| high output DALI | H3 |
| dynamic white | X3 |

5 Diffusoren | Diffusers | Diffuseurs | Diffusori

| | |
|------------|---|
| satiné | S |
| microprism | M |

Beispiel | Example | Exemple | Esempio

ø 1190 mm, white, 4000 K, high output DALI, satiné
R33E119-9016E1840H3S

Luminous Flux (lm)

| 4000 K satiné | high output | low output |
|---------------|-------------|------------|
| ø 1190 mm | 8180 lm | 4768 lm |
| ø 1546 mm | 11068 lm | 6388 lm |
| ø 2966 mm | 22768 lm | 12508 lm |
| ø 5806 mm | 45536 lm | 25016 lm |

System Power (W)

| | high output | low output | dynamic white |
|-----------|-------------|------------|---------------|
| ø 1190 mm | 83 W | 51 W | 90 W |
| ø 1546 mm | 108 W | 63 W | 112 W |
| ø 2966 mm | 213 W | 116 W | 215 W |
| ø 5806 mm | 426 W | 231 W | 430 W |

Weight (kg)

| | |
|-----------|---------|
| ø 1190 mm | 12,8 kg |
| ø 1546 mm | 16,7 kg |
| ø 2966 mm | 32,2 kg |
| ø 5806 mm | 63,1 kg |

COMPARE LIGHT COLOUR

| Luminous Flux (lm) | 3000 K | | 4000 K | | dynamic white |
|--------------------|-------------|------------|-------------|------------|---------------|
| satiné | high output | low output | high output | low output | 2700 - 6500 K |
| ø 1546 mm | 10748 lm | 6208 lm | 11068 lm | 6388 lm | 10095 lm |

* Der angegebene Lichtstrom bezieht sich auf die Leuchte mit klarer mikroprismatischer Abdeckung. Die Leuchte wird mit satinierter Folie zur Erhöhung der Homogenität geliefert (- 9,5% Lichtstrom).

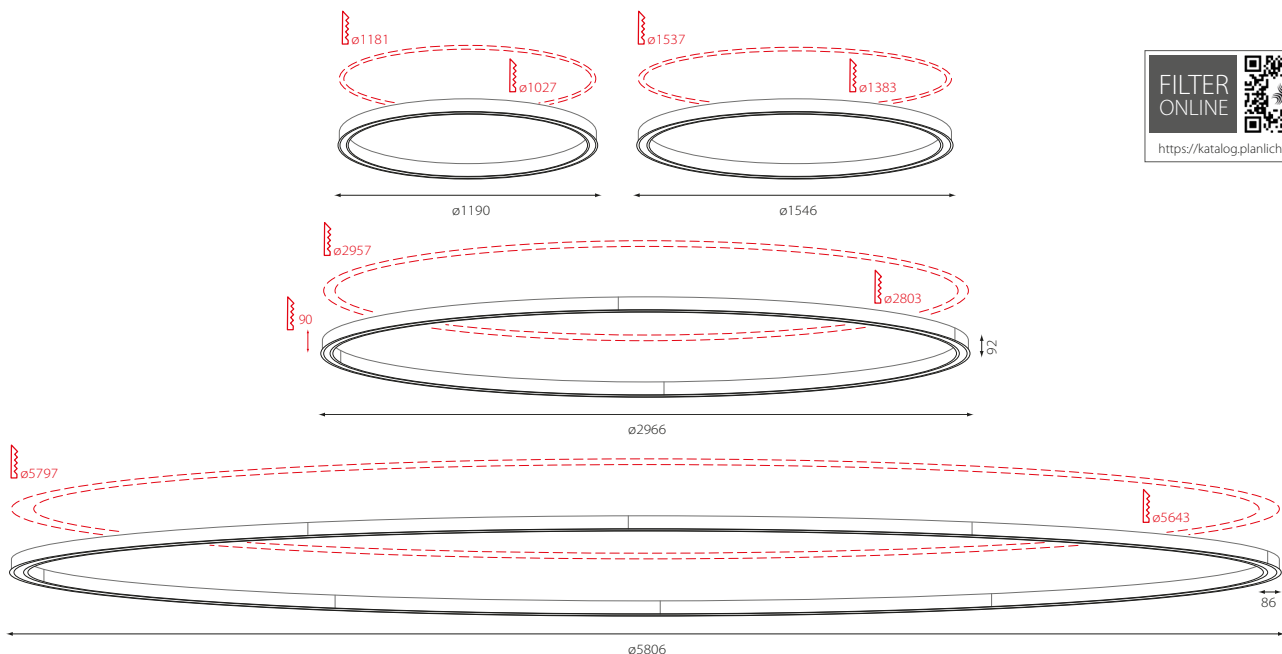
* The indicated luminous flux corresponds to the luminaire with a clear microprismatic diffuser. The luminaire is delivered with a satinized-foil for increased homogeneity (- 9.5% luminous flux).

* Le flux lumineux indiqué correspond au luminaire avec diffuseur microprismatique transparent. Le luminaire est livré avec un film satiné pour optimiser l'homogénéité (- 9,5% sur le flux lumineux).

* Il flusso luminoso indicato corrisponde all'apparecchio con diffusore microprismatico trasparente. La lampada è fornita con una pellicola satinata per ottimizzare l'omogeneità (-9.5% del flusso luminoso).

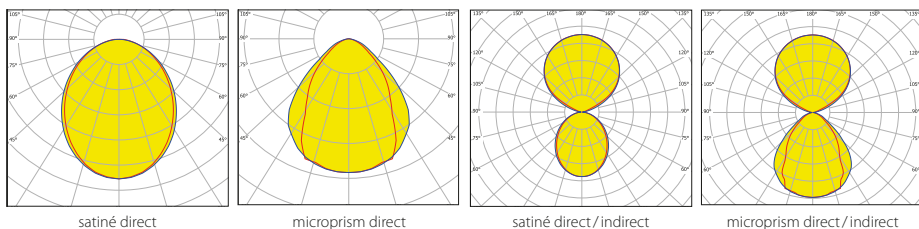
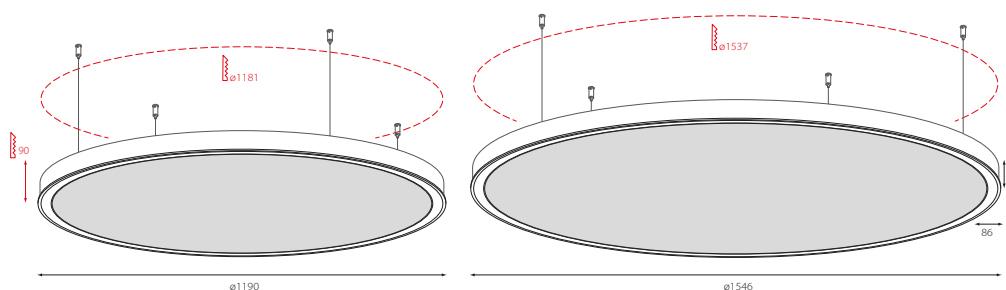
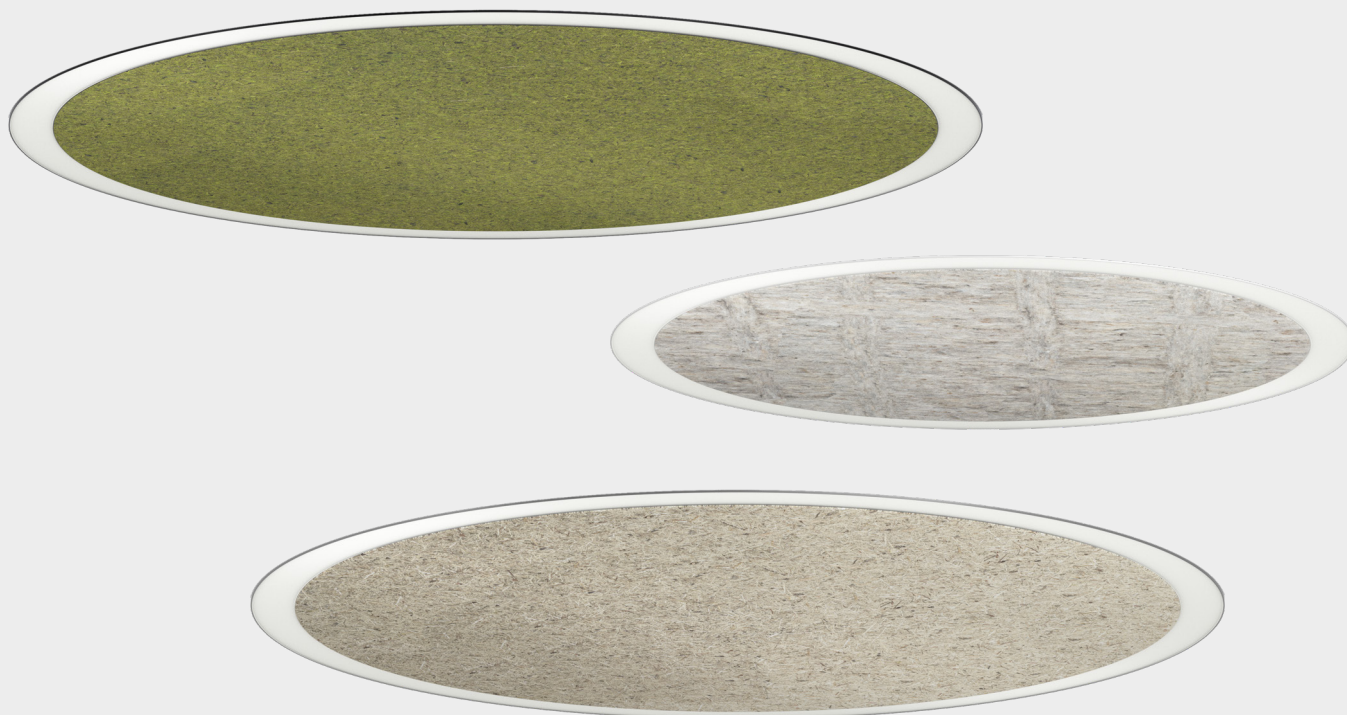
COMPARE COVER

| Luminous Flux (lm) | satiné | | microprism* | |
|--------------------|-------------|------------|-------------|------------|
| 4000 K | high output | low output | high output | low output |
| ø 1546 mm | 11068 lm | 6388 lm | 12116 lm | 6928 lm |



sinus quiet

Einbauleuchte | Recessed luminaire | Luminaire encastré | da incasso



| Cut out ✂ | | |
|-----------|------------|---------|
| DIMENSION | Ø DIAMETER | ↑ DEPTH |
| Ø 1190 mm | 1181 mm | 90 mm |
| Ø 1546 mm | 1537 mm | 90 mm |

A++ **A**

230V IP20 $R_a > 80$ up to L90/50.000h MacAdam 3 DALI switchDIM

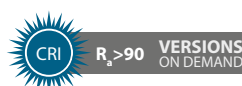


LED
 3000K, 4000K, dynamic white
 up to 120lm/W
 $R_a > 80$, MacAdam 3
 non-dim/DALI
 IEC 62471: Blue light hazard: $RG \leq 1$
 Lifetime up to L90/50.000h

Optic
 direct
 satiné
 microprism

Options
 Emergency lighting 3h
 RAL of your choice

Housing
 powder coated
 RAL 9006
 RAL 9016
 RAL 9005



1 Dimension

| | |
|-----------|-----|
| ø 1190 mm | 119 |
| ø 1546 mm | 154 |

2 Akustik Modul | Acoustic module | Panneau acoustique | Modulo acustico

| | |
|----------------------------------------|----|
| QUIET.FELT standard anthracite melange | QA |
| QUIET.FELT standard pebble | QP |
| QUIET.FELT standard lime | QL |
| QUIET.FELT extra+ black * | QB |
| QUIET.FELT extra+ fire * | QF |
| QUIET.FELT extra+ light grey melange * | QG |
| QUIET.FELT extra+ chocolate * | QC |
| Organoid® Mous * | QM |
| Organoid® Wollä * | QW |
| Organoid® Wildspitze * | QH |

* QUIET.FELT extra+ & Organoid® on demand

3 Gehäusefarbe | Housing colour | Couleur du luminaire | Colore profilo

| | |
|-----------------------------------------------|----|
| silber silver argent argento (RAL 9006) | SI |
| weiß white blanc bianco (RAL 9016) | WS |
| schwarz black noir nero (RAL 9005) | SW |

RAL colours on request

4 Farbtemperatur | Colour temperature | Température de couleur | Temperatura colore

| | |
|-----------------------------|-----|
| 3000 K | 830 |
| 4000 K | 840 |
| 2700 - 6500 K dynamic white | HCL |

5 Output

| | |
|--------------------|----|
| low output non-dim | L1 |
| low output DALI | L3 |
| high output DALI | H3 |
| dynamic white | X3 |

4 Diffusoren | Diffusers | Diffuseurs | Diffusori

| | |
|------------|---|
| satiné | S |
| microprism | M |

Beispiel | Example | Exemple | Esempio

ø 1190 mm, pebble acoustic module, white, 4000 K, high output DALI, satiné

R33E119-QPWSE1840H3S

Luminous Flux (lm)

| 4000 K satiné | high output | low output |
|---------------|-------------|------------|
| ø 1190 mm | 8180 lm | 4768 lm |
| ø 1546 mm | 11068 lm | 6388 lm |

System Power (W)

| | high output | low output | dynamic white |
|-----------|-------------|------------|---------------|
| ø 1190 mm | 83 W | 51 W | 90 W |
| ø 1546 mm | 108 W | 63 W | 112 W |

Weight (kg)

| | Organoid |
|-----------|----------|
| ø 1190 mm | 13,6 kg |
| ø 1546 mm | 18,8 kg |

COMPARE LIGHT COLOUR

| Luminous Flux (lm) | 3000 K | | 4000 K | | dynamic white 2700 - 6500 K |
|---------------------|-------------|------------|-------------|------------|--------------------------------|
| | high output | low output | high output | low output | |
| satiné ø 1546 mm | 10748 lm | 6208 lm | 11068 lm | 6388 lm | 10095 lm |

COMPARE COVER

| Luminous Flux (lm) | satiné | | microprism* | |
|---------------------|-------------|------------|-------------|------------|
| | high output | low output | high output | low output |
| 4000 K ø 1546 mm | 11068 lm | 6388 lm | 12116 lm | 6928 lm |



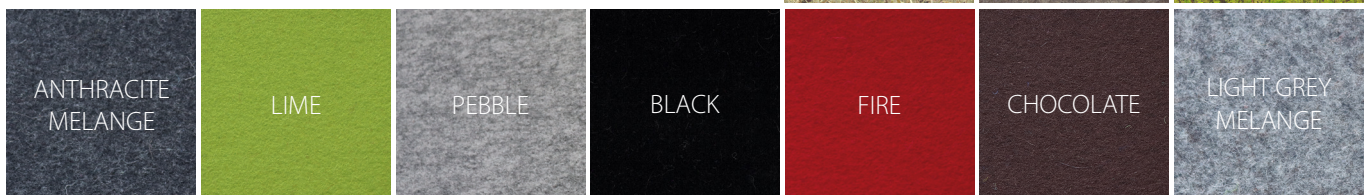
* Der angegebene Lichtstrom bezieht sich auf die Leuchte mit klarer mikroprismatischer Abdeckung. Die Leuchte wird mit satinierter Folie zur Erhöhung der Homogenität geliefert (- 9,5 % Lichtstrom).

* The indicated luminous flux corresponds to the luminaire with a clear microprismatic diffuser. The luminaire is delivered with a satinized-foil for increased homogeneity (- 9.5 % luminous flux).

* Le flux lumineux indiqué correspond au luminaire avec diffuseur microprismatique transparent. Le luminaire est livré avec un film satiné pour optimiser l'homogénéité (- 9,5 % sur le flux lumineux).

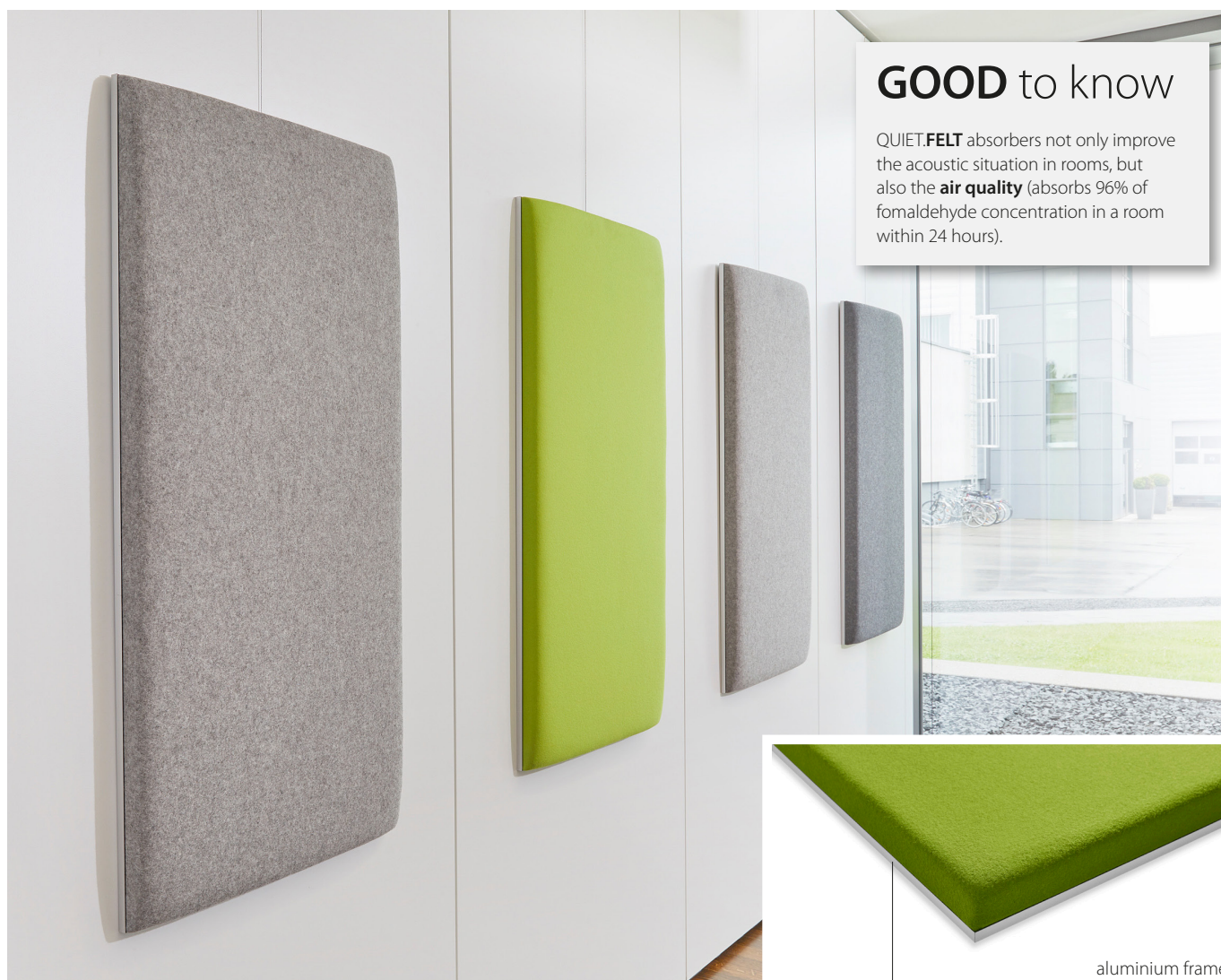
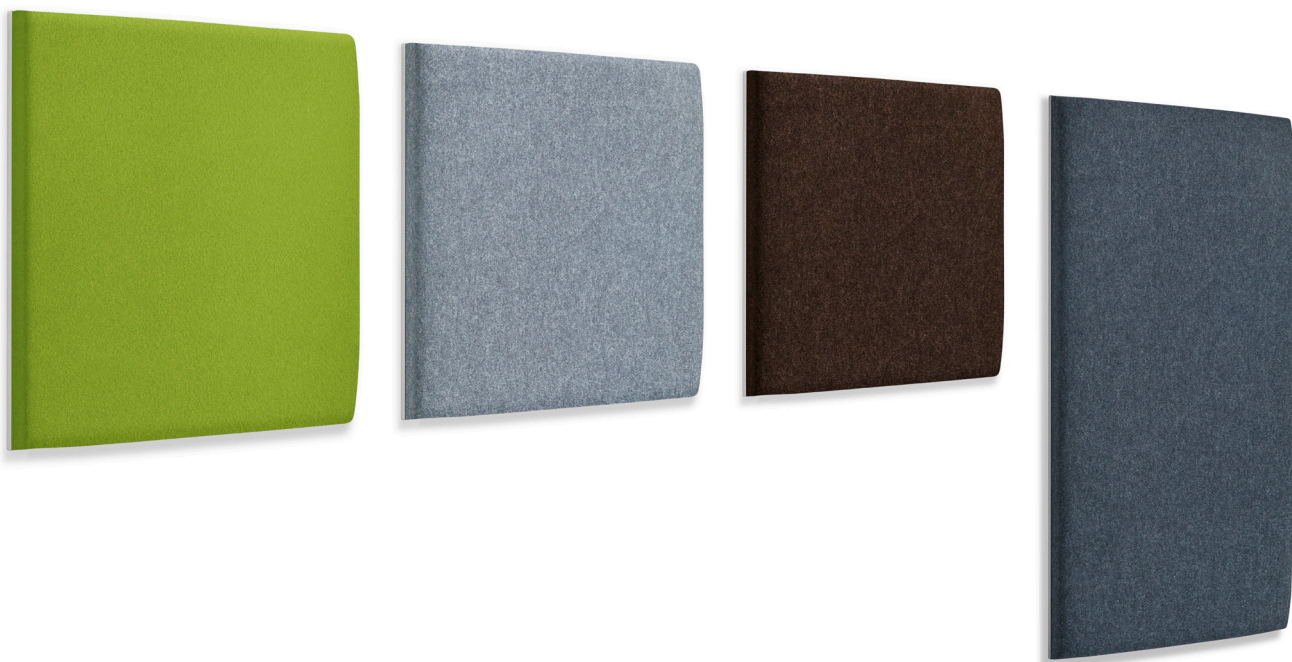
* Il flusso luminoso indicato corrisponde all'apparecchio con diffusore microprismatico trasparente. La lampada é fornita con una pellicola satinata per ottimizzare l'omogeneità (-9.5% del flusso luminoso).

ACOUSTIC ABSORBERS



felt

Akustikpaneel | Acoustic panel | Panneau acoustique | Elementi fonoassorbenti



GOOD to know

QUIET.FELT absorbers not only improve the acoustic situation in rooms, but also the **air quality** (absorbs 96% of formaldehyde concentration in a room within 24 hours).

aluminium frame

1 Länge | Length | Longueur | Lunghezza

| | |
|-------------|-----|
| 600x600 mm | 06Q |
| 600x1200 mm | 120 |

Beispiel | Example | Exemple | Esempio

600x1200 mm, anthracite melange acoustic module

643-W120-QA

2 Akustik Modul | Acoustic module | Panneau acoustique | Modulo acustico

| | |
|----------------------------------------|----|
| QUIET.FELT standard anthracite melange | QA |
| QUIET.FELT standard ight grey melange | QG |
| QUIET.FELT standard lime | QL |
| QUIET.FELT extra+ black * | QB |
| QUIET.FELT extra+ fire * | QF |
| QUIET.FELT extra+ chocolate * | QC |

* QUIET.FELT extra+ on demand

Optionales Zubehör | Optional accessory | Accessoire optionnel | Accessori opzionali

pendant kit B57101



Acoustic panel

ISO 11654: Class A,

$\alpha_w=1,00$

EN 13501-1: B-s2,d0

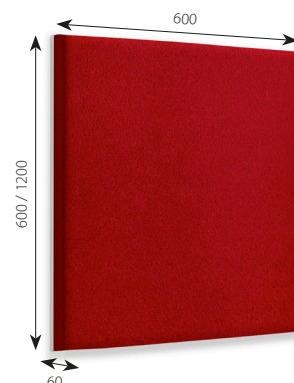


EQUIVALENT SOUND ABSORPTION AREA – absorber QUIET.FELT

| Frequency Hz | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----|
| 600x600mm | 0,1 | 0,1 | 0,1 | 0,2 | 0,3 | 0,3 | 0,3 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| 600x1200 mm | 0,1 | 0,2 | 0,3 | 0,5 | 0,5 | 0,6 | 0,7 | 0,7 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 |

RECOMMENDED NUMBER OF PANELS

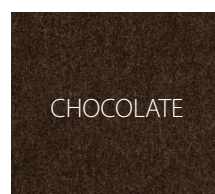
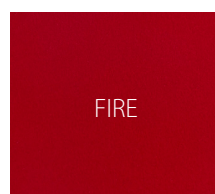
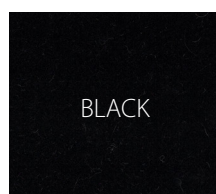
| | | | | | | |
|----------------------------------|------------|------------|------------|-----------|-----------|-----------|
| panel 600x1200mm | 2x | 4x | 6x | 8x | 12x | 15x |
| panel 600x600mm | 4x | 8x | 12x | 16x | 24x | 30x |
| small rooms < 15 m ² | noticeable | good | very good | excellent | | |
| medium rooms < 20 m ² | | noticeable | good | very good | excellent | |
| large rooms < 35 m ² | | noticeable | noticeable | good | very good | excellent |



STANDARD

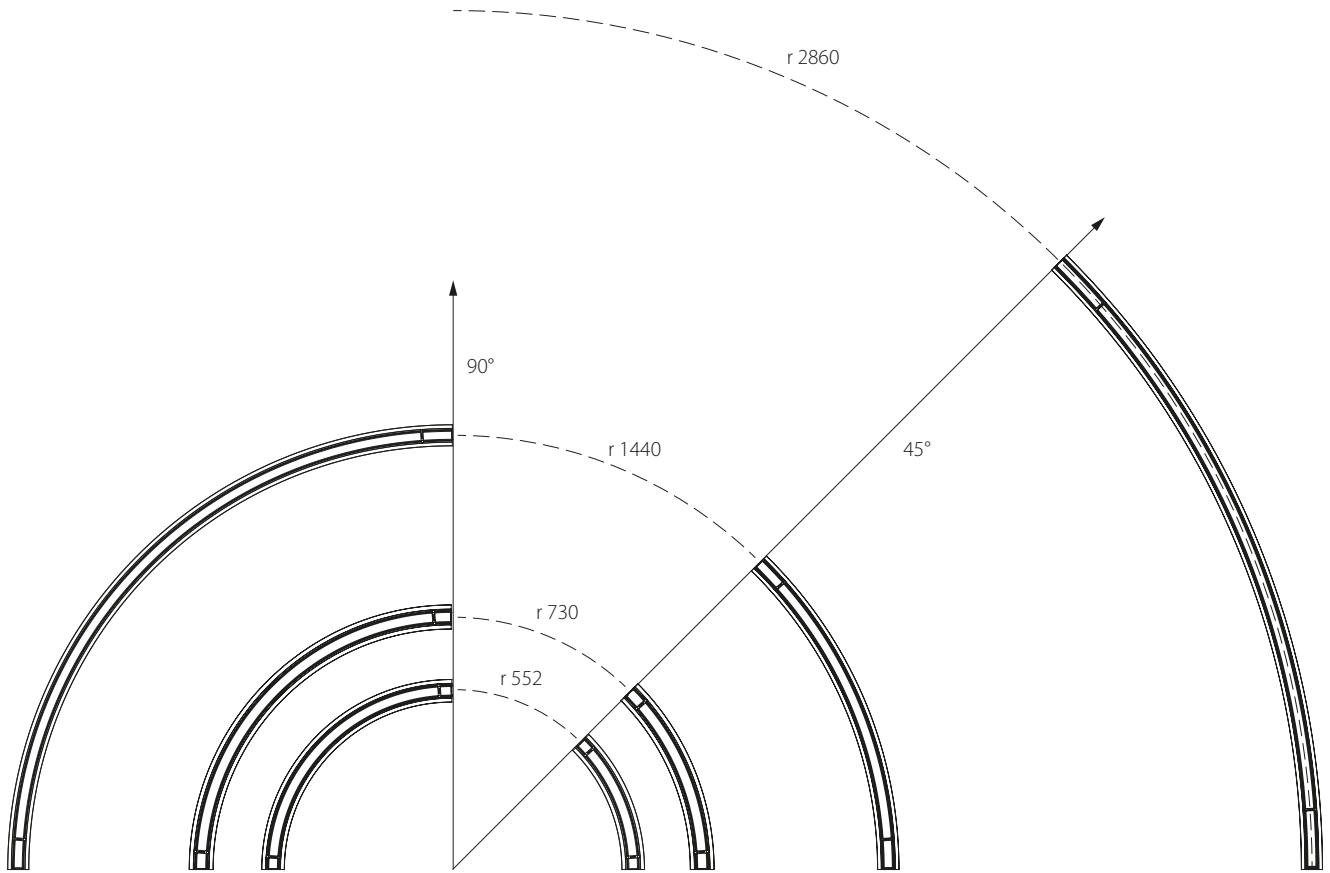


EXTRA +



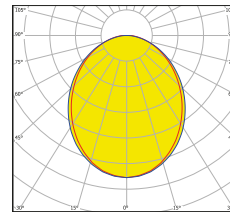
sinus

Komponenten | Components | Composants | Componenti

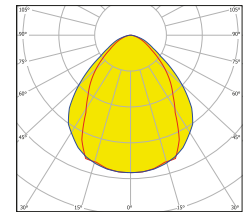


System Power (W)

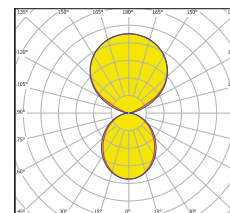
| satiné microprism | direct | | | direct/indirect | | |
|----------------------|-------------|------------|---------------|-----------------|------------|---------------|
| | high output | low output | dynamic white | high output | low output | dynamic white |
| 45°, r 552 mm | 10,5W | 6,3W | – | 20W | 11W | – |
| 90°, r 552 mm | 21W | 12,5W | 23W | 40W | 22W | 40W |
| 45°, r 730 mm | 14,5W | 9W | 16W | 27W | 16W | 28W |
| 90°, r 730 mm | 27W | 16W | 28W | 53W | 29W | 54W |
| 45°, r 1440 mm | 27W | 16W | 28W | 53W | 29W | 54W |
| 90°, r 1440 mm | 53W | 29W | 54W | 107W | 55W | 108W |
| 45°, r 2860 mm | 26W | 29W | 54W | 107W | 55W | 108W |



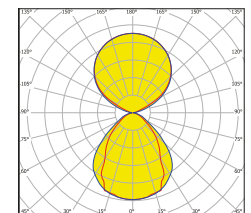
satiné direct



microprism direct



satiné direct/indirect



microprism direct/indirect



230V IP40 $R_a > 80$ up to L90/50.000h

MacAdam 3 DALI switchDIM



LED

3000K, 4000K, dynamic white

up to 118lm/W

$R_a > 80$, MacAdam 3

non-dim/DALI dim

IEC 62471: Blue light hazard: RG≤1

Lifetime up to L90/50.000h

Optic

direct

satiné

microprism for reduced brightness

Options

RAL of your choice

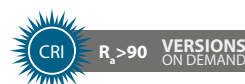
Housing

powder coated

RAL 9006

RAL 9016

RAL 9005



1 Montageart | Mounting | Montage | Montaggio

| | |
|-----------------------------------------------------------------------------|----------|
| Aufbauleuchte Surface-mount luminaire Luminaire en saillie a soffitto | A |
| Hängeleuchte Pendant luminaire Suspension Sospensione | H |
| Einbauleuchte Recessed luminaire Luminaire encastré da incasso FRAME | E |

2 Winkel/Radius | Angle/Radius | Angle/Rayon | Angolo/Raggio

| | |
|----------------|-----------|
| 45°, r 552 mm | 14 |
| 90°, r 552 mm | 19 |
| 45°, r 730 mm | 34 |
| 90°, r 730 mm | 39 |
| 45°, r 1440 mm | 54 |
| 90°, r 1440 mm | 59 |
| 45°, r 2860 mm | 74 |

3 Gehäusefarbe | Housing colour | Couleur du luminaire | Colore profilo

| | |
|-----------------------------------------------|-------------|
| silber silver argent argento (RAL 9006) | 9006 |
| weiß white blanc bianco (RAL 9016) | 9016 |
| schwarz black noir nero (RAL 9005) | 9005 |

RAL colours on request

4 direct | direct/indirect

| | |
|--------------------------------|----------|
| direct | 1 |
| direct/indirect (pendant only) | 2 |

5 Farbtemperatur | Colour temperature | Température de couleur | Temperatura colore

| | |
|-----------------------------|------------|
| 3000 K | 830 |
| 4000 K | 840 |
| 2700 - 6500 K dynamic white | HCL |

6 Output / DIM

| | |
|--------------------|-----------|
| low output non-dim | L1 |
| low output DALI | L3 |
| high output DALI | H3 |
| dynamic white | X3 |

7 Diffusoren | Diffusers | Diffuseurs | Diffusori

| | |
|------------|----------|
| satiné | S |
| microprism | M |

Beispiel | Example | Exemple | Esempio

45°, r 552 mm, white, pendant direct/indirect, 3000 K, high output DALI, satiné
P33-H14-9016E2830H3S

Luminous Flux (lm)

satiné (S)

| | direct | | | | | direct/indirect | | | | |
|----------------|-------------|------------|-------------|------------|---------------|-----------------|------------|-------------|------------|---------------|
| | 3000 K | | 4000 K | | dynamic white | 3000 K | | 4000 K | | dynamic white |
| | high output | low output | high output | low output | 2700-6500 K | high output | low output | high output | low output | 2700-6500 K |
| 45°, r 552 mm | 1000 lm | 579 lm | 1022 lm | 596 lm | - | 2487 lm | 1464 lm | 2574 lm | 1494 lm | - |
| 90°, r 552 mm | 2001 lm | 1159 lm | 2045 lm | 1192 lm | 1815 lm | 4974 lm | 2928 lm | 5148 lm | 2988 lm | 4719 lm |
| 45°, r 730 mm | 1336 lm | 790 lm | 1364 lm | 812 lm | 1223 lm | 3316 lm | 1952 lm | 3432 lm | 1992 lm | 3146 lm |
| 90°, r 730 mm | 2687 lm | 1552 lm | 2767 lm | 1597 lm | 2524 lm | 6700 lm | 4005 lm | 6294 lm | 3973 lm | 6166 lm |
| 45°, r 1440 mm | 2687 lm | 1552 lm | 2767 lm | 1597 lm | 2524 lm | 6700 lm | 4005 lm | 6294 lm | 3973 lm | 6166 lm |
| 90°, r 1440 mm | 5517 lm | 3046 lm | 5692 lm | 3127 lm | 5150 lm | 13400 lm | 8010 lm | 13848 lm | 7950 lm | 12332 lm |
| 45°, r 2860 mm | 5517 lm | 3046 lm | 5692 lm | 3127 lm | 5150 lm | 13400 lm | 8010 lm | 13848 lm | 7950 lm | 12332 lm |

microprism (M) *

| | direct | | | | | direct/indirect | | | | |
|----------------|-------------|------------|-------------|------------|---------------|-----------------|------------|-------------|------------|---------------|
| | 3000 K | | 4000 K | | dynamic white | 3000 K | | 4000 K | | dynamic white |
| | high output | low output | high output | low output | 2700-6500 K | high output | low output | high output | low output | 2700-6500 K |
| 45°, r 552 mm | 1086 lm | 627 lm | 1106 lm | 640 lm | - | 2591 lm | 1521 lm | 2658 lm | 1541 lm | - |
| 90°, r 552 mm | 2172 lm | 1254 lm | 2213 lm | 1280 lm | 1950 lm | 5183 lm | 3041 lm | 5316 lm | 3081 lm | 4881 lm |
| 45°, r 730 mm | 1450 lm | 852 lm | 1484 lm | 872 lm | 1322 lm | 3455 lm | 2027 lm | 3544 lm | 2054 lm | 3254 lm |
| 90°, r 730 mm | 2940 lm | 1706 lm | 3029 lm | 1732 lm | 2764 lm | 6883 lm | 3964 lm | 7218 lm | 4115 lm | 6404 lm |
| 45°, r 1440 mm | 2940 lm | 1706 lm | 3029 lm | 1732 lm | 2764 lm | 6883 lm | 3964 lm | 7218 lm | 4115 lm | 6404 lm |
| 90°, r 1440 mm | 5932 lm | 3297 lm | 6262 lm | 3402 lm | 5579 lm | 13766 lm | 7930 lm | 14436 lm | 8230 lm | 12808 lm |
| 45°, r 2860 mm | 5932 lm | 3297 lm | 6262 lm | 3402 lm | 5579 lm | 13766 lm | 7930 lm | 14436 lm | 8230 lm | 12808 lm |

Weight (kg)

| | direct | direct/indirect |
|----------------|--------|-----------------|
| 45°, r 552 mm | 1,6 kg | 1,7 kg |
| 90°, r 552 mm | 3,2 kg | 3,5 kg |
| 45°, r 730 mm | 2,1 kg | 2,3 kg |
| 90°, r 730 mm | 4,2 kg | 4,5 kg |
| 45°, r 1440 mm | 4,0 kg | 4,4 kg |
| 90°, r 1440 mm | 8,0 kg | 8,7 kg |
| 45°, r 2860 mm | 7,9 kg | 8,6 kg |

* Der angegebene Lichtstrom bezieht sich auf die Leuchte mit klarer mikroprismatischer Abdeckung. Die Leuchte wird mit satiniertes Folie zur Erhöhung der Homogenität geliefert (- 9,5% Lichtstrom).

* The indicated luminous flux corresponds to the luminaire with a clear microprismatic diffuser. The luminaire is delivered with a satinized foil for increased homogeneity (- 9.5% luminous flux).

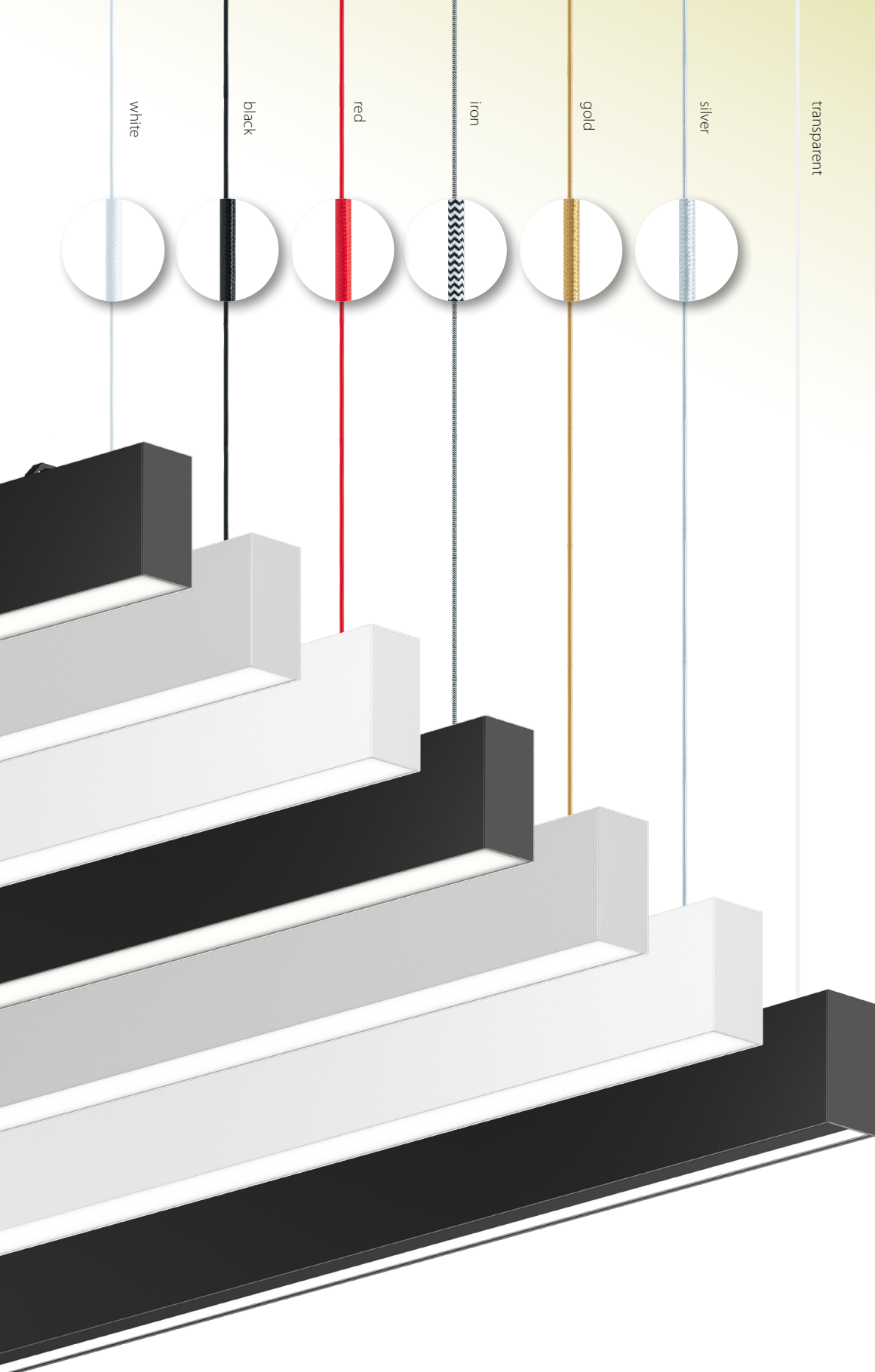
* Le flux lumineux indique correspond au luminaire avec diffuseur microprismatique transparent. Le luminaire est livré avec un film satiné pour optimiser l'homogénéité (- 9,5% sur le flux lumineux).

* Il flusso luminoso indicato corrisponde all'apparecchio con diffusore microprismatico trasparente. La lampada é fornita con un foglio satinato per ottimizzare l'omogeneità (-9,5% del flusso luminoso).









white

black

red

iron

gold

silver

transparent



**CABLE COLOURS
SELECTION**

Optionale Ausführung | Optional version | Version optionnelle | Versione opzionale

Einspeiskabel
Suspension cable
Câble d'alimentation
Cavo di alimentazione

2500 mm
5x0,75 mm²

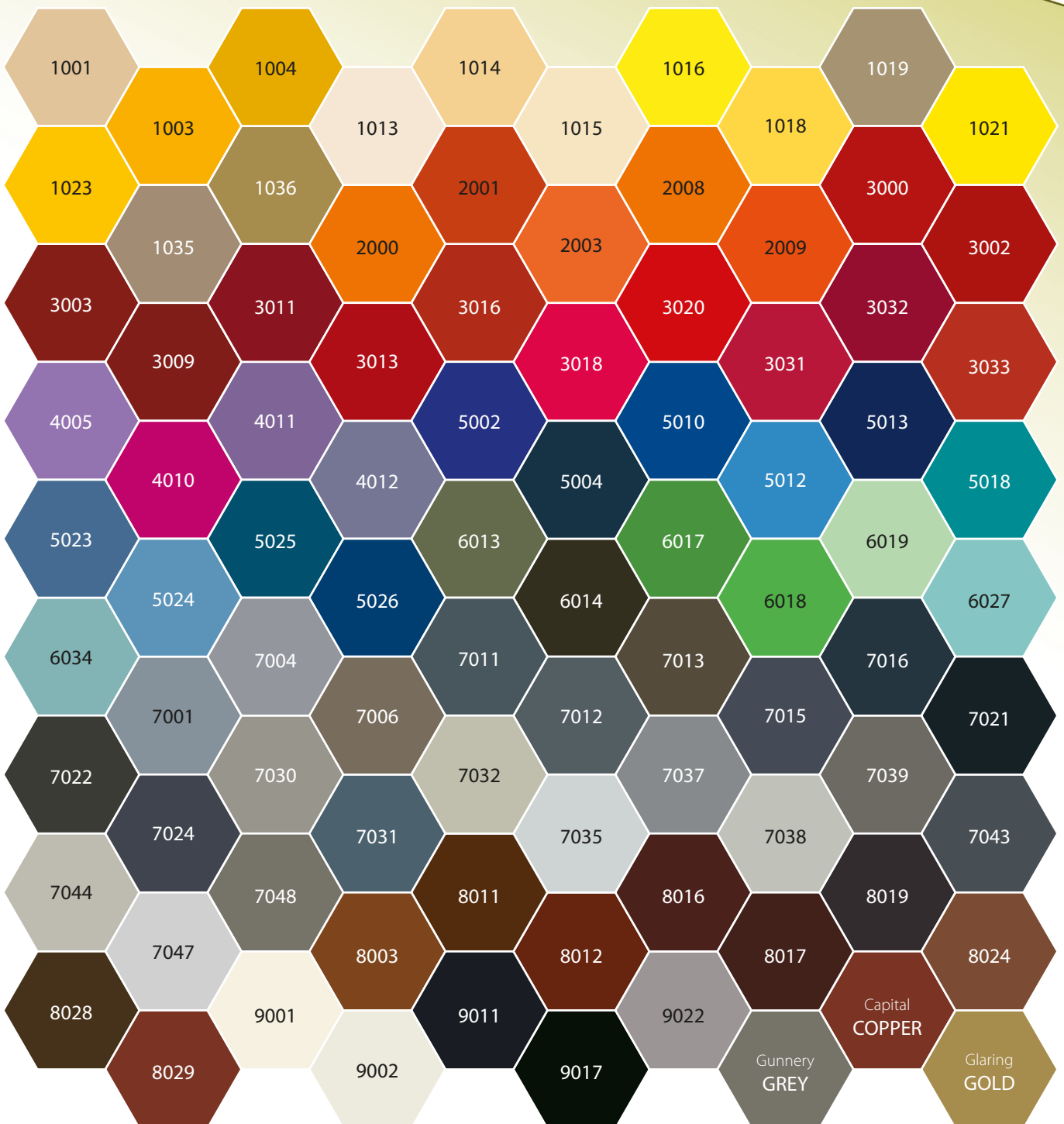
| | |
|----------|----------------|
| ▷ white | T65-EIN-WHITE |
| ▶ black | T65-EIN-BLACK |
| ▶ red | T65-EIN-RED |
| ▷ iron | T65-EIN-IRON |
| ▶ gold | T65-EIN-GOLD |
| ▷ silver | T65-EIN-SILVER |



Transparent cable incl. (standard version)

90

HOUSING COLOURS
SELECTION





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