

BAULMANN LEUCHTEN

2011/2012

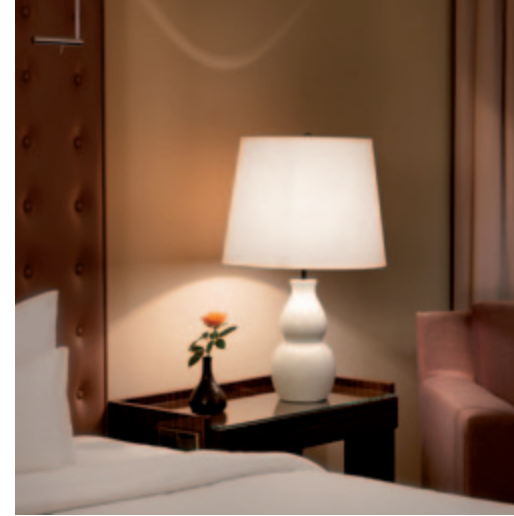
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Leuchten



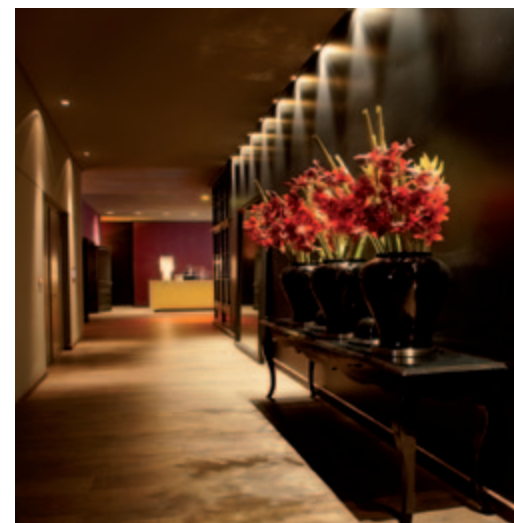
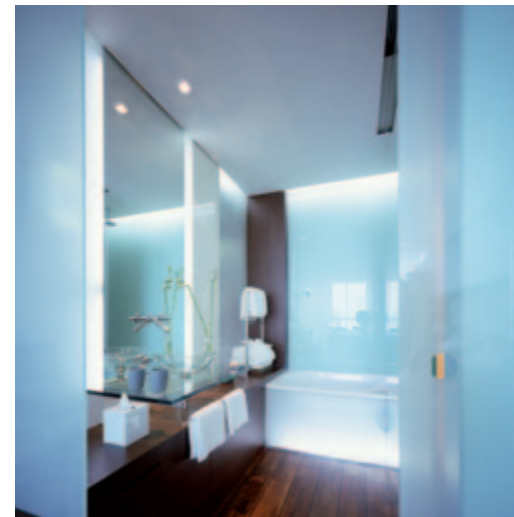
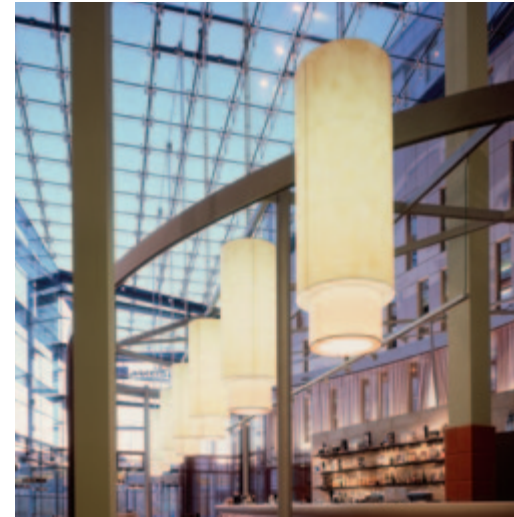


INTERIOR PROJECT


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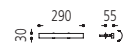
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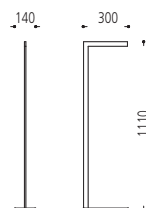




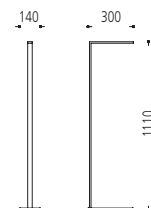
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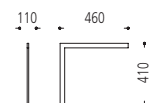
64.159.33
inkl. Schaltnetzteil (lose beigelegt) /
LED driver included (added as loose part) /
incl. convertiseur LED (ajouté comme pièce
détachée)
incl. 2 x 3 W Line-LED, ca. 3.000 Kelvin



24.157.33
inkl. 1 x 3 W Line-LED,
ca. 3.000 Kelvin



24.156.33
inkl. 1 x 3 W Line-LED,
ca. 3.000 Kelvin



14.157.33
inkl. 2 x 3 W Line-LED,
ca. 3.000 Kelvin



14.156.33
inkl. 2 x 3 W Line-LED,
ca. 3.000 Kelvin

inkl. Steckerschaltnetzteil /
plug with integrated LED driver included /
incl. prise avec convertiseur LED intégré

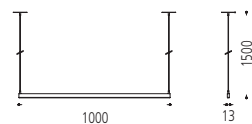
Nickel matt / nickel dull / nickel mat

Design: Tech Group



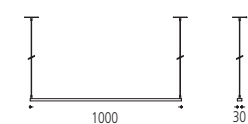


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**34.168.33**

Nickel matt, Acrylblende opal weiß, inkl. Schaltnetzteil (lose beigelegt) /
nickel dull, opal acrylic diffuser, LED driver included (added as loose part) /
nickel mat, écran en verre acrylique blanc, incl. convertiseur LED (ajouté comme pièce détachée)
incl. Flex-LED 12 V/ca. 20 W, ca. 3.000 Kelvin

Design: Tech Group

**34.167.33**

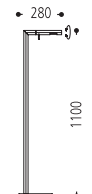
Nickel matt, inkl. Schaltnetzteil (lose beigelegt) /
nickel dull, LED driver included (added as loose part) /
nickel mat, incl. convertiseur LED (ajouté comme pièce détachée)
incl. 5 x 3 W Line-LED, ca. 3.000 Kelvin

Design: Tech Group



64.154... **64.153...**

inkl. Schaltnetzteil (lose beigelegt) /
LED driver included (added as loose part) /
incl. convertiseur LED (ajouté comme pièce détachée)

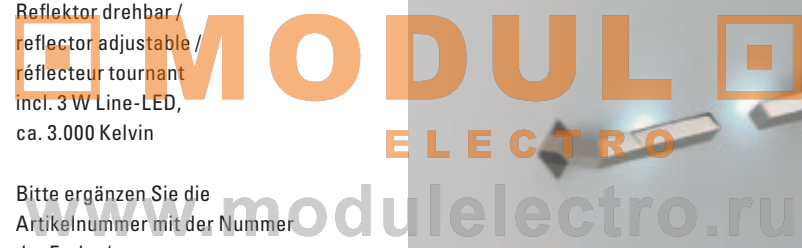


24.153...
inkl. Steckerschaltnetzteil / plug with integrated LED driver included /
incl. prise avec convertiseur LED intégré

Reflektor drehbar / reflector adjustable /
réflecteur tournant
incl. 3 W Line-LED, ca. 3.000 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
please complete the article number with the colour-code /
pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:
.30 Nickel blank / nickel polished / nickel poli
.55 Weiß / white / blanc
.69 Schwarz / black / noir

Design: Tech Group



14.154.30
mit Mikroschalter / with micro-switch /
avec micro-interrupteur

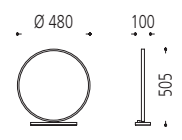


24.154.30

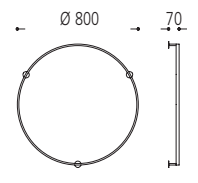
Nickel blank, inkl. Steckerschaltnetzteil, Reflektor drehbar /
nickel polished, plug with integrated LED driver included, reflector adjustable /
nickel poli, incl. prise avec convertiseur LED intégré, réflecteur tournant
incl. 3 W Line-LED, ca. 3.000 Kelvin

Design: Tech Group





14.158...
 inkl. Dimmer und Steckerschaltnetzteil /
 dimmer and plug with integrated LED driver included /
 incl. variateur de lumière et prise avec convertiseur LED intégré
 incl. Flex-LED 12 V/ca. 7 W, ca. 3.000 Kelvin



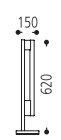
64.158...
 inkl. Schaltnetzteil (lose beigelegt) /
 LED driver included (added as loose part) /
 incl. convertiseur LED (ajouté comme pièce détachée)
 incl. Flex-LED 12 V/ca. 12 W, ca. 3.000 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe
 please complete the article number with the colour-code /
 pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:
.30 Nickel blank / nickel polished / nickel poli
.54 Dunkel brüniert / dark bronzed / bronze foncé

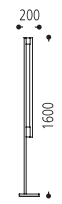
Design: Tech Group



65.603.81 L 300
 1 x L-DE S14s 35 W
 oder / or / ou
 1 x L-DE S14s 6 W LED
65.604.81 L 500
 1 x L-DE S14s 60 W
65.605.81 L 1.000
 1 x L-DE S14s 120 W



14.604.30
 1 x L-DE S14s 60 W



24.604.30
 1 x L-DE S14s 120 W

Edelstahl blank / stainless steel polished / acier poli



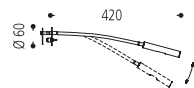
Design: Grimm/Kraege

Nickel blank / nickel polished / nickel poli

Design: Tech Group



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**64.347...**

mit Mikroschalter, inkl. Schaltnetzteil (lose beigelegt) / with micro-switch, LED driver included (added as loose part) / avec micro-interrupteur, incl. convertiseur LED (ajouté comme pièce détachée) incl. 3 W Line-LED, ca. 3.000 Kelvin

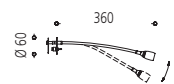
Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe / please complete the article number with the colour-code / pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:
.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed / bronze foncé

Design: Tech Group



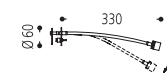
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**64.346.69**

Chrom/Schwarz, mit Mikroschalter, inkl. Schaltnetzteil (lose beigelegt) / chrome/black, with micro-switch, LED driver included (added as loose part) / chrome/noir, avec micro-interrupteur, incl. convertiseur LED (ajouté comme pièce détachée) incl. 1 W LED, ca. 3.500 Kelvin

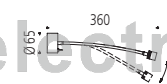
Design: Tech Group

**64.340...**

mit Mikroschalter, inkl. Schaltnetzteil (lose beigelegt) / with micro-switch, LED driver included (added as loose part) / avec micro-interrupteur, incl. convertiseur LED (ajouté comme pièce détachée) incl. 1 W LED, ca. 3.500 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe / please complete the article number with the colour-code / pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:
.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed / bronze foncé

Design: Tech Group

**64.341...**

mit Mikroschalter, inkl. Schaltnetzteil / with micro-switch, LED driver included / avec micro-interrupteur, incl. convertiseur LED incl. 1 W LED, ca. 3.500 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe / please complete the article number with the colour-code / pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:
.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed / bronze foncé

Design: Tech Group





64.352.14



64.354.14
mit Mikroschalter /
with micro-switch /
avec micro-interrupteur



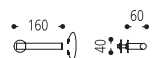
64.353.14
(ohne Abbildung / without
illustration / sans image)

Chrom, inkl. Schaltnetzteil
(lose beigelegt) /
chrome, LED driver included
(added as loose part) /
chrome, incl. convertiseur LED
(ajouté comme pièce détachée)
incl. 1 W LED, ca. 3.500 Kelvin

Design: Tech Group

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64.350...

inkl. Schaltnetzteil (lose beigelegt) /
LED driver included (added as loose part) /
incl. convertiseur LED (ajouté comme pièce détachée)
incl. 3 W Line-LED, ca. 3.000 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
please complete the article number with the colour-code /
pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:

.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed / bronze foncé

Design: Tech Group



64.349...

mit Mikroschalter /
with micro-switch /
avec micro-interrupteur



64.348...

(ohne Abbildung / without
illustration / sans image)

inkl. Schaltnetzteil (lose beigelegt) /
LED driver included (added as loose part) /
incl. convertiseur LED (ajouté comme pièce détachée)
incl. 1 W LED, ca. 3.500 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
please complete the article number with the colour-code /
pouvez-vous compléter le numéro d'article avec le code correspondant
à la couleur:

.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed / bronze foncé

Design: Tech Group



64.364...

mit Mikroschalter /
with micro-switch /
avec micro-interrupteur



64.363...

(ohne Abbildung / without
illustration / sans image)

inkl. Schaltnetzteil (lose beigelegt) /
LED driver included (added as loose part) /
incl. convertiseur LED (ajouté comme pièce détachée)
incl. 1 W LED, ca. 3.500 Kelvin

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
please complete the article number with the colour-code /
pouvez-vous compléter le numéro d'article avec le code correspondant
à la couleur:

.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed / bronze foncé

Design: Tech Group





34.286... *
inkl. elektronischem
Transformator /
electronic transformer included /
incl. transformateur électronique
incl. 1 x LED GU5,3 12 V/4 W,
ca. 3.000 Kelvin



34.282... *
inkl. Schaltnetzteil /
LED driver included /
incl. convertiseur LED
incl. 4 W LED, ca. 3.000 Kelvin



34.284... *
inkl. Schaltnetzteil /
LED driver included /
incl. convertiseur LED
incl. 4 W LED, ca. 3.000 Kelvin



34.281... *
inkl. Schaltnetzteil /
LED driver included /
incl. convertiseur LED
incl. 1 W LED, ca. 3.500 Kelvin

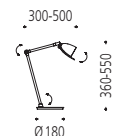


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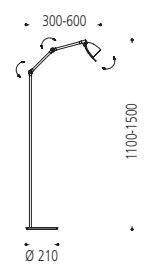
* Bitte ergänzen Sie die
Artikelnummer mit der Nummer
der Farbe /
please complete the article
number with the colour-code /
pouvez-vous compléter le
numéro d'article avec le code
correspondant à la couleur:
.14 Chrom / chrome / chrome
.15 Titansilber / silver / gris argenté
.54 Dunkel brüniert / dark bronzed /
bronze foncé

Design: Tech Group





14.159.30



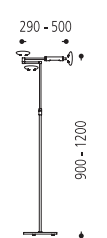
24.159.30

Nickel blank,
inkl. Steckerschaltnetzteil /
nickel polished, plug with
integrated LED driver included /
nickel poli, incl. prise avec
convertiseur LED intégré
1 x LED GU5,3 12 V/4W,
ca. 3.000 Kelvin

Design: Tech Group

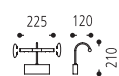


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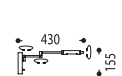
24.155.30

inkl. Steckerschaltnetzteil /
plug with integrated LED driver
included /
incl. prise avec convertiseur LED
intégré



64.057.30

inkl. Schaltnetzteil /
LED driver included /
incl. convertiseur LED
incl. 2 x 3 W Line-LED ,
ca. 3.000 Kelvin



64.155.30

mit Mikroschalter,
inkl. Schaltnetzteil /
with micro-switch ,
LED driver included /
avec micro-interrupteur ,
incl. convertiseur LED



14.155.30

mit Mikroschalter,
inkl. Steckerschaltnetzteil /
with micro-switch , plug with
integrated LED driver included /
avec micro-interrupteur ,
incl. prise avec convertiseur LED
intégré

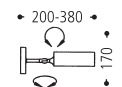
Reflektor drehbar / reflector adjustable / réflecteur tournant
incl. 3 x 1 W LED, ca. 3.500 Kelvin

Nickel blank / nickel polished / nickel poli

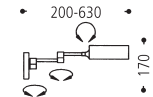
Design: Tech Group



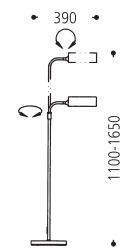
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64.400.14



64.420.14

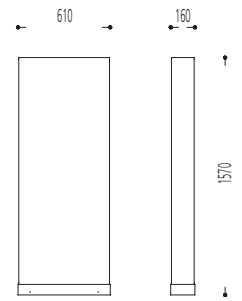


24.400.14

Chrom, mit Schalter / chrome, with switch / chrome, avec interrupteur
1 x E27

Design: Tech Group



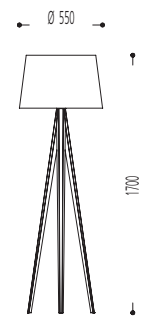


23.132.82-4262
 Edelstahl gebürstet, Schirm:
 Contra H grob natur 105 /
 stainless steel dull, shade:
 contra H coarse nature 105 /
 acier mat, ABJ: contra H
 grossier nature 105
 1 x TC-L 2G11 55 W

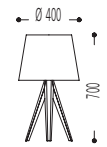


Design: Tech Group

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23.156.69-



13.156.69-

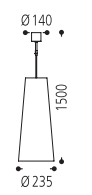
Bitte ergänzen Sie die Artikelnummer mit der Artikelnummer des Schirms /
 please complete the article number with the number of the shade /
 pouvez-vous compléter le numéro d'article avec le code correspondant à l'ABJ:

4001 Chintz naturweiß 135 / chintz white 135 / chintz blanc 135
4005 Chintz grau 128, innen Contra H grob natur 105 / chintz grey 128,
 inside contra H coarse nature 105 / chintz gris 128, à l'intérieur contra H
 grossier nature 105

4007 Chintz naturweiß 135 / chintz white 135 / chintz blanc 135
4009 Chintz grau 128, innen Contra H grob natur 105 / chintz grey 128,
 inside contra H coarse nature 105 / chintz gris 128, à l'intérieur contra H
 grossier nature 105

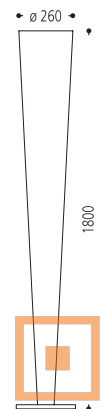
Schwarz / black / noir
 1 x E27

Design: Tech Group



33.208.15-4818
 Titansilber, Schirmmaterial:
 Contra H grob natur 105 /
 silver, shade: contra H coarse
 nature 105 /
 gris argenté, ABJ: contra H
 grossier nature 105
 1 x E27

Design: Tech Group

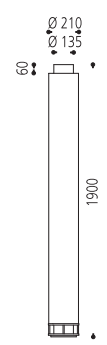


23.129.09-4827 **13.129.09-4826**
 1 x T8 G13 58 W 1 x T5 G5 14 W
 Rostbraun, Schirmmaterial:
 crushed Krepp 750 /
 rust, shade: crêpe paper 750 /
 rouille, ABJ: papier crêpe 750

23.129.14-4817 **13.129.14-4816**
 1 x T8 G13 58 W 1 x T5 G5 14 W
 Chrom, Schirmmaterial: Contra H
 grob natur 105 /
 chrome, shade: contra H 105 /
 chrome, ABJ: contra H grossier
 nature 105



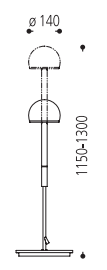
Design: Holger Küffner /
 Peter Osterloh



23.130.14-4819
 Chrom, Schirmmaterial:
 Metallgewebe anthrazit 106 /
 chrome, shade: metal fabric
 charcoal 106 /
 chrome, ABJ: tissu métallique
 anthracite 106
 1 x T8 G13 58 W

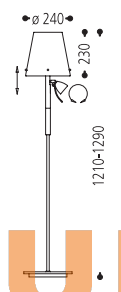


Design: Tech Group



24.306.30
 Nickel blank, mit Dimmer /
 nickel polished, with dimmer /
 nickel poli, avec variateur de
 lumière
 incl. 1 x QT12 GY 6,35
 12 V/max. 50 W

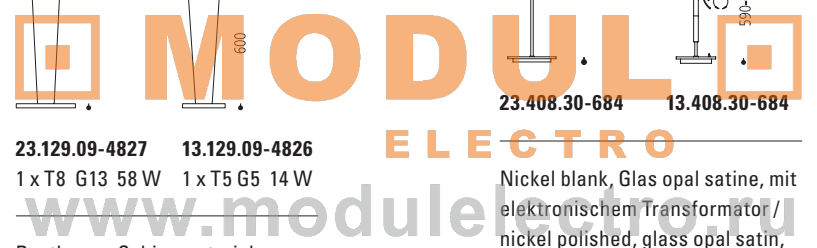
Design: Harry Mayer

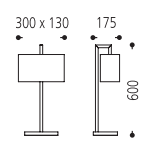


23.408.30-684 **13.408.30-684**

Nickel blank, Glas opal satine, mit
 elektronischem Transformator /
 nickel polished, glass opal satin,
 with electronic transformer /
 nickel poli, verre opale satin, avec
 transformateur électronique
 incl. 1 x QT12 GY 6,35
 12 V/max. 50 W +
 1 x QR-CBC 35 GZ4 20 W

Design: Tom Schlotfeldt



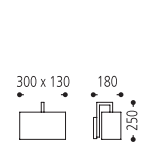
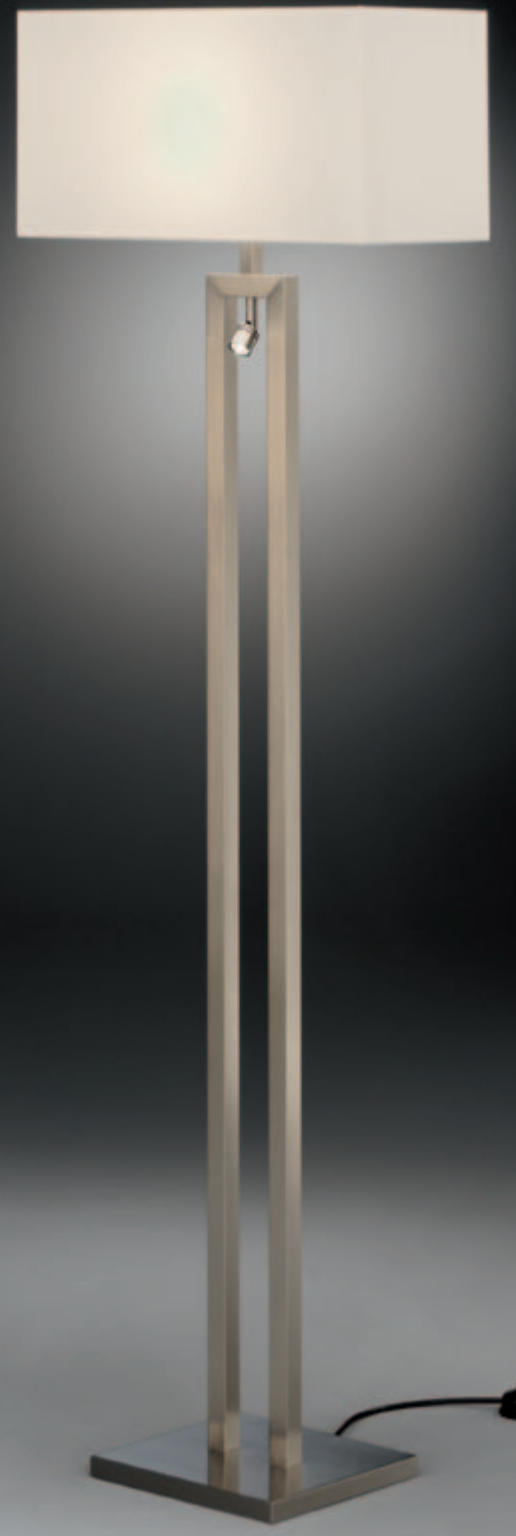


13.150.33-3845

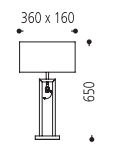
Nickel matt, Schirmmaterial: Chintz naturweiß 135 / nickel dull, shade: chintz white 135 / nickel mat, ABJ: chintz blanc 135 1 x E27

Design: Tech Group

MODULO ELECTRO www.modulelectro.ru

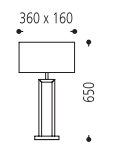


63.150.33-3845



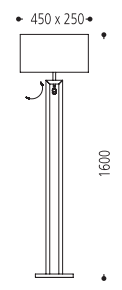
13.153.33-3847

mit zusätzlichem LED-Leselicht, inkl. Schaltnetzteil / with LED reading light, LED driver included / avec lampe liseuse LED, incl. convertiseur LED incl. 1 W LED, ca. 3.500 Kelvin



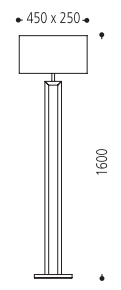
13.152.33-3847

(ohne Abbildung / without illustration / sans image)



23.153.33-3848

mit zusätzlichem LED-Leselicht, inkl. Schaltnetzteil / with LED reading light, LED driver included / avec lampe liseuse LED, incl. convertiseur LED incl. 1 W LED, ca. 3.500 Kelvin

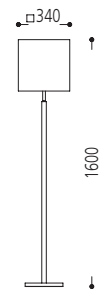


23.152.33-3848

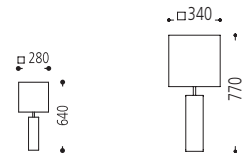
(ohne Abbildung / without illustration / sans image)

Nickel matt, Schirmmaterial: Chintz naturweiß 135 / nickel dull, shade: chintz white 135 / nickel mat, ABJ: chintz blanc 135 1 x E27

Design: Tech Group



25.140.41-4127

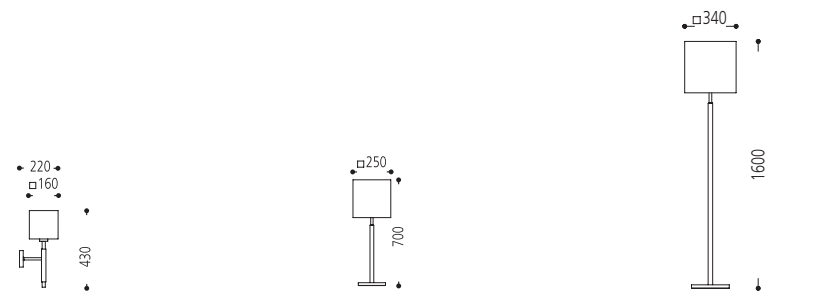


15.140.41-4126 15.141.41-4127

Chrom/Nussbaum, Schirmmaterial:
 Chintz naturweiß 135 /
 chrome/nut-tree, shade: chintz
 white 135 /
 chrome/noyer, ABJ: chintz
 blanc 135
 1 x E27

Design: Tech Group **MODUL**
ELECTRO

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63.154.82-4131

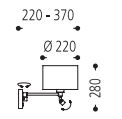
13.154.82-4125

23.154.82-4127

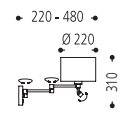
Edelstahl gebürstet, Schirmmaterial: Chintz naturweiß 135 /
 stainless steel dull, shade: chintz white 135 /
 acier mat, ABJ: chintz blanc 135
 1 x E27

Design: Tech Group





63.315.30-3858

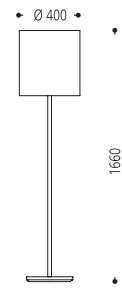


63.319.30-3858

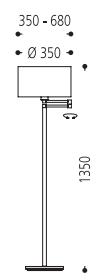
Nickel blank, mit zusätzlichem LED Leselicht, inkl. Schaltnetzteil, Schirmmaterial: Chintz naturweiß 135 / nickel polished, with LED reading light, LED driver included, shade: chintz white 135 / nickel poli, avec lampe liseuse LED, incl. convertiseur LED, ABJ: chintz blanc 135
1 x E27 +
incl. 1 W LED, ca. 3.500 Kelvin

Design: Tech Group

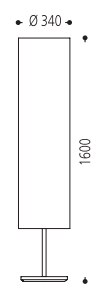
MODUL
ELECTRO
www.modulelectro.ru



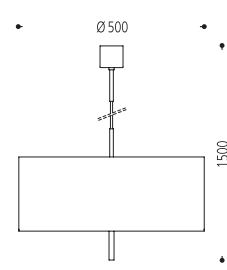
23.311.30-3856
1 x E27



23.315.30-3855
1 x E27



23.131.30-4822
2 x T5 G5 28 W
EVG

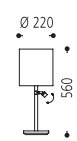


33.311.30-3857
Acrylblende opal weiß / opal acrylic diffuser / ecran en verre acrylique blanc
1 x E27

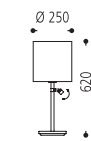
Nickel blank, Schirmmaterial: Chintz naturweiß 135 / nickel polished, shade: chintz white 135 / nickel poli, ABJ: chintz blanc 135

Design: Tech Group



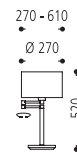


13.312.30-3853



13.314.30-3849

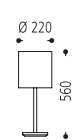
mit zusätzlichem LED Leselicht,
inkl. Schaltnetzteil /
with LED reading light, LED driver
included /
avec lampe liseuse LED, incl.
convertiseur LED
1 x E27 +
incl. 1 W LED, ca. 3.500 Kelvin



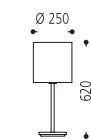
13.315.30-3854
1 x E27

Nickel blank, Schirmmaterial:
Chintz naturweiß 135 /
nickel polished, shade: chintz
white 135 /
nickel poli , ABJ: chintz blanc 135

Design: Tech Group



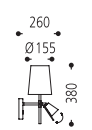
13.311.30-3853



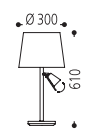
13.313.30-3849

Nickel blank, Schirmmaterial:
Chintz naturweiß 135 /
nickel polished, shade: chintz
white 135 /
nickel poli , ABJ: chintz blanc 135
1 x E27

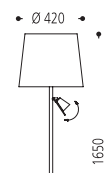
Design: Tech Group



63.409.15-3879
1 x E14 + 1 x LED GU10 230 V/3 W,
ca. 3.000 Kelvin



13.409.15-3878
1 x E27 + 1 x LED GU10 230 V/3 W,
ca. 3.000 Kelvin



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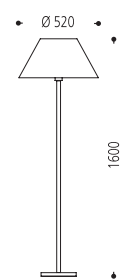
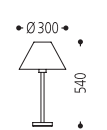
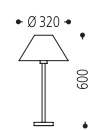
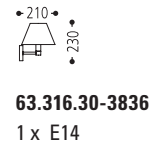
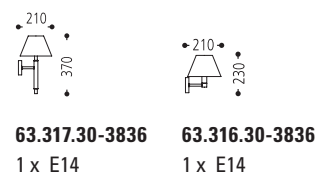
23.409.15-3877
1 x E27 + 1 x LED GU10 230 V/3 W,
ca. 3.000 Kelvin

Titansilber, mit zusätzlichem
Leselicht, Schirmmaterial: Chintz
naturweiß 135 /
silver, with reading light, shade:
chintz white 135 /
gris argenté, avec lampe liseuse,
ABJ: chintz blanc 135

Design: Tech Group

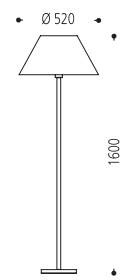
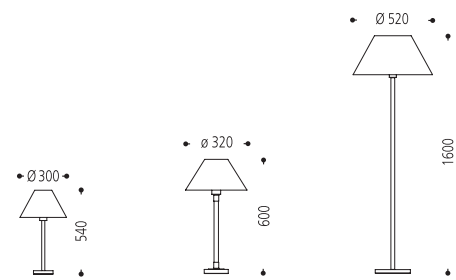
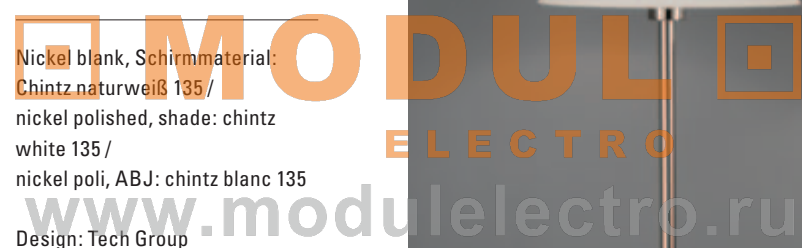
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23.316.30-3838
1 x E27

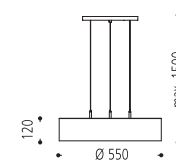
Nickel blank, Schirmmaterial:
Chintz naturweiß 135/
nickel polished, shade: chintz
white 135 /
nickel poli, ABJ: chintz blanc 135
Design: Tech Group



15.287.34-3830 1 x E27 **15.288.34-3832** 1 x E27 **25.288.34-3838** (ohne Abbildung / without illustration / sans image) 1 x E27 **63.288.34-3836** (ohne Abbildung / without illustration / sans image) 1 x E14

Nickel blank/Holz craquelé, Schirmmaterial: Chintz naturweiß 135 /
nickel polished/cracked wood, shade: chintz white 135 /
nickel poli/bois craquelé, ABJ: chintz blanc 135

Design: Tech Group



33.651.15-3810

EVG

33.641.15-3810

140V

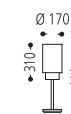
Titansilber, Schirmmaterial:
Leinenstruktur 140 /
silver, shade: linen-structure 140 /
gris argenté, ABJ: toile-structure 140
1 x T-R5 2GX13 55 W

Design: Tech Group

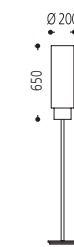
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33.208.15-3690



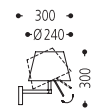
13.208.15-3687



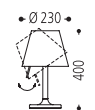
23.208.15-3688

Titansilber, Schirmmaterial: Leinenstruktur 140 (außen), Chintz rohweiß 133 (innen) /
silver, shade: linen-structure 140 (outside), chintz white 133 (inside) /
gris argenté, ABJ: toile-structure 140 (dehors), chintz blanc 133 (à l'intérieur)
1 x E27

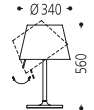
Design: Tech Group



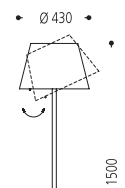
63.310.15-3883
1 x E14



13.309.15-3881
(ohne Abbildung /
without illustration /
sans image)
1 x E27



13.310.15-3884
1 x E27



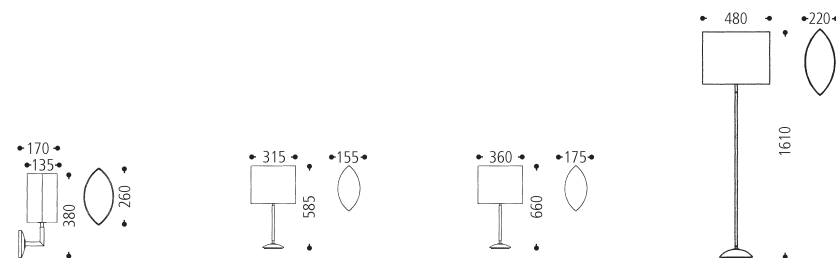
23.310.15-3885
1 x E27

Titansilber, Schirmmaterial: Chintz
naturweiß 135 /
silver, shade: chintz white 135 /
gris argenté, ABJ: chintz blanc 135

Design: Tech Group

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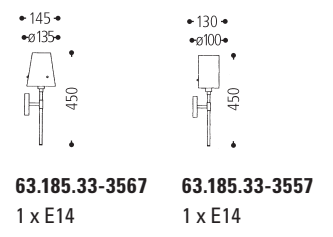
www.modulelectro.ru



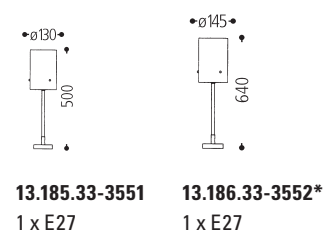
63.108.15-3646 **13.108.15-3641** **13.109.15-3642** **23.108.15-3644**

Titansilber, Schirmmaterial: Honan Seide 217 /
silver, shade: honan silk 217 /
gris argenté, ABJ: soie d'Honan 217
1 x E27

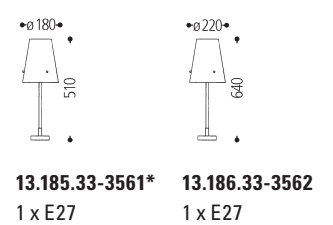
Design: Tech Group



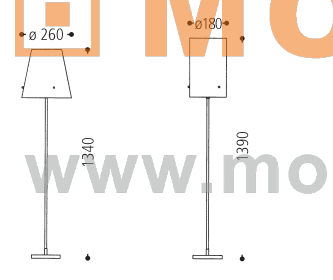
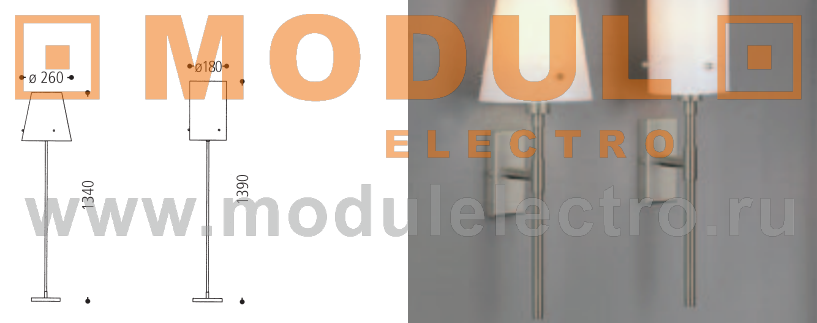
63.185.33-3567 1 x E14
63.185.33-3557 1 x E14



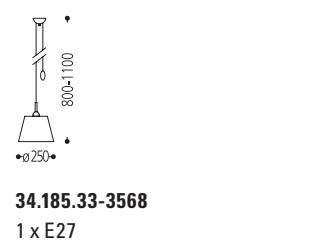
13.185.33-3551 1 x E27
13.186.33-3552* 1 x E27



13.185.33-3561* 1 x E27
13.186.33-3562 1 x E27



23.185.33-3521 1 x E27
23.185.33-3554* 1 x E27

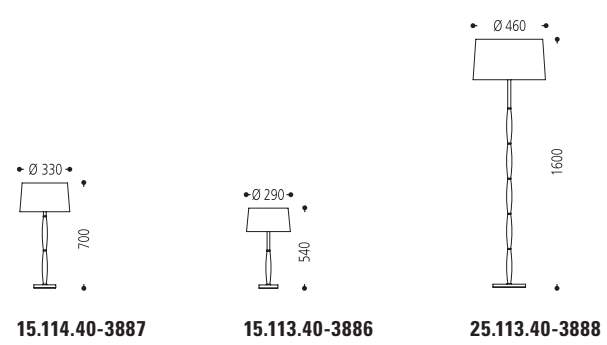


34.185.33-3568 1 x E27

Nickel matt, Schirmmaterial:
Polycarbonat 710 /
nickel dull,
shade: polycarbonate 710 /
nickel mat,
ABJ: polycarbonate 710

* (ohne Abbildung / without
illustration / sans image)

Design: Tech Group

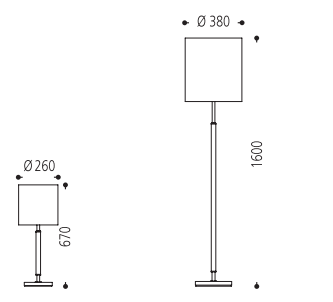


15.114.40-3887 **15.113.40-3886** **25.113.40-3888**

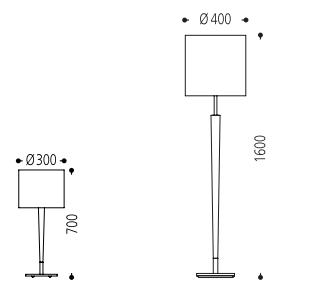
Nickel blank/Esche tiefbraun, Schirmmaterial: Chintz naturweiß 135 /
nickel polished/ash wood deep brown, shade: chintz white 135 /
nickel poli/bois de frêne bistre, ABJ: chintz blanc 135
1 x E27

Design: Tech Group





15.510.40-3849 25.510.40-3850

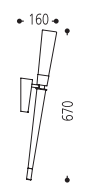


15.111.40-3851 25.111.40-3852

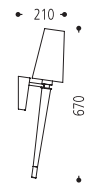
Nickel blank/Esche tiefbraun,
 Schirmmaterial: Chintz
 naturweiß 135 /
 nickel polished/ash wood deep
 brown, shade: chintz white 135 /
 nickel poli/bois de frêne bistre,
 ABJ: chintz blanc 135
 1 x E27

Design: Tech Group

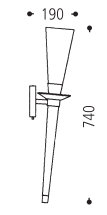
www.modulelectro.ru



64.902.40
 Glas weiß matt /
 opal satinized glass /
 verre blanc mat



63.901.40-3897
 Schirmmaterial: Chintz
 naturweiß 135 /
 shade: chintz white 135 /
 ABJ: chintz blanc 135



64.908...
 Glas weiß matt /
 opal satinized glass /
 verre blanc mat
 1 x E27

Nickel blank/Esche tiefbraun /
 nickel polished/ash wood deep brown /
 nickel poli/bois de frêne bistre
 1 x TC-S G23 max. 9 W



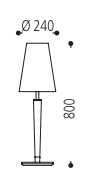
Design: Tech Group

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
 please complete the article number with the colour-code /
 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

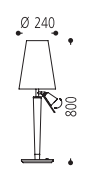
- .14 Chrom/Schwarz / chrome/black / chrome/noir
- .48 Messing poliert/Kirsche / brass polished/cherry wood /
 laiton/cerisier

Design: Tech Group

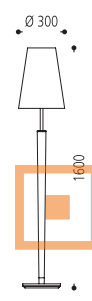




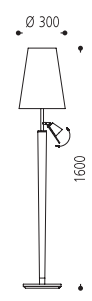
13.145.09-3698
1 x E27



13.148.09-3698
mit zusätzlichem LED Leselicht /
with LED reading light /
avec lampe liseuse LED
1 x E27 + 1 x LED GU10 230V/3 W,
ca. 3.000 Kelvin



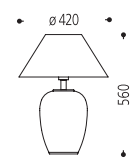
23.145.09-3700
1 x E27



23.148.09-3700
(ohne Abbildung / without
illustration / sans image)
mit zusätzlichem LED Leselicht /
with LED reading light /
avec lampe liseuse LED
1 x E27 + 1 x LED GU10 230V/3 W,
ca. 3.000 Kelvin

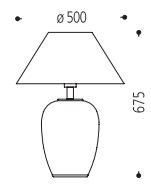
Rostbraun/Loom nussbaumfarbig,
Schirmmaterial: Chintz champ 131 /
rust/loom walnut-tree coloured,
shade: chintz champ 131 /
rouille/loom noyer coloré, ABJ:
chintz champ 131

Design: Tech Group



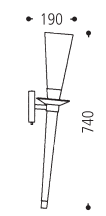
13.146.09-3788

Schirmmaterial: Chintz champ 131 /
shade: chintz champ 131 /
ABJ: chintz champ 131
1 x E27



13.147.09-3789

(ohne Abbildung / without
illustration / sans image)



64.908.09

1 x E27

Glas weiß matt /
opal satinized glass /
verre blanc mat

Rostbraun/Loom nussbaumfarbig / rust/loom walnut-tree coloured / rouille/loom noyer coloré

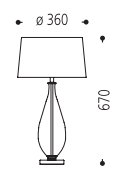
Design: Tech Group



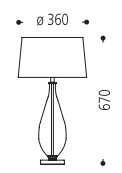
MODULO
ELECTRO
www.modulelectro.ru



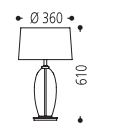
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ELECTRO
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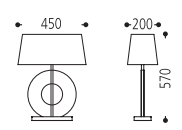
16.130.30-3834
Nickel blank, Glas klar /
nickel polished, clear glass /
nickel poli, verre transparent



16.130.50-3834
Nickel blank, Glas rubinrot /
nickel polished, red glass /
nickel poli, verre rouge



16.141.30-3834
Nickel blank, Glas klar /
nickel polished, clear glass /
nickel poli, verre transparent



18.100.33-4103
Nickel matt, Acrylglas transparent /
nickel dull, transparent acrylic glass /
nickel mat, verre acrylique transparent

Schirmmaterial: Chintz naturweiß 135 / shade: chintz white 135 / ABJ: chintz blanc 135
1 x E27

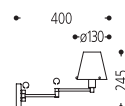
Design: Tech Group



63.101...-3565



63.103...-3565



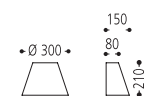
63.104...-3565



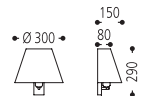
Schirmmaterial: Polycarbonat 710 / shade: polycarbonate 710 / ABJ: polycarbonate 710 1 x E14

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe / please complete the article number with the colour-code / pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur: .30 Nickel blank / nickel polished / nickel poli .33 Nickel matt / nickel dull / nickel mat

Design: Tech Group



63.300.55-2015 Weiß, ohne Schalter / white, without switch / blanc, sans interrupteur 1 x TC-DEL G24q-2 18 W



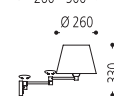
63.301.30-2016 ohne Schalter / without switch / sans interrupteur



63.311.30-3913 mit Schalter / with switch / avec interrupteur



63.312.30-3915 mit Schalter / with switch / avec interrupteur

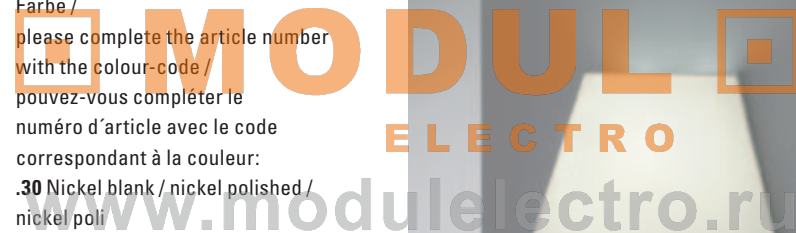


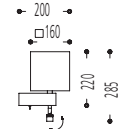
63.313.30-3915 mit Schalter / with switch / avec interrupteur

Nickel blank / nickel polished / nickel poli 1 x E27

Schirmmaterial: Chintz naturweiß 135 / shade: chintz white 135 / ABJ: chintz blanc 135

Design: Tech Group

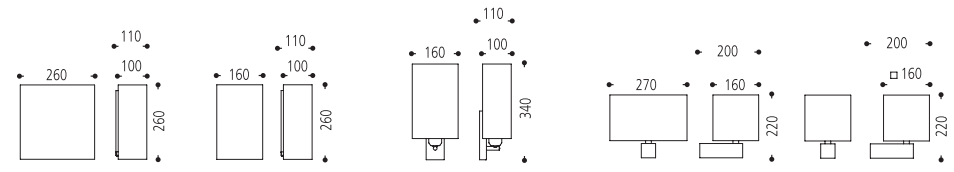




63.322.30-4131
 Nickel blank, mit zusätzlichem LED Leselicht, inkl. Schaltnetzteil, Schirmmaterial: Chintz naturweiß 135 / nickel polished, with LED reading light, LED driver included, shade: chintz white 135 / nickel poli, avec lampe liseuse LED, incl. convertiseur LED, ABJ: chintz blanc 135
 1 x E27 +
 incl. 1 W LED, ca. 3.500 Kelvin

Design: Tech Group

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64.831.55-2092 **64.831.55-2090** **63.301.30-2091** **63.320.30-3840** **63.320.30-4131**

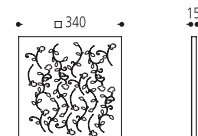
Weiß / white / blanc
 1 x TC-D G24d-2 18 W
 VG

Nickel blank / nickel polished / nickel poli
 1 x E27

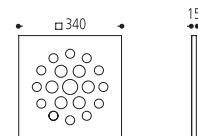
63.321.30-4131
 Nickel blank, mit zusätzlichem LED Leselicht, inkl. Schaltnetzteil / nickel polished, with LED reading light, LED driver included / avec lampe liseuse LED, incl. convertiseur LED
 1 x E27 +
 incl. 1 W LED, ca. 3.500 Kelvin

Schirmmaterial: Chintz naturweiß 135 / shade: chintz white 135 / ABJ: chintz blanc 135

Design: Tech Group



64.282.82

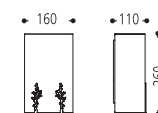


64.285.82

Edelstahl gebürstet, inkl.
Schaltnetzteil (lose beigelegt) /
stainless steel dull, LED driver
included (added as loose part) /
acier mat, incl. convertiseur LED
(ajouté comme pièce détachée)
incl. 4 x 1 W LED, ca. 3.500 Kelvin

Design: Tech Group

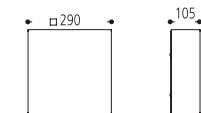
MODUL
ELECTRO
www.modulelectro.ru



64.831.55-

Weiß, Schirmmaterial: Chintz naturweiß 135 /
white, shade: chintz white 135 /
blanc, ABJ: chintz blanc 135
1 x TC-D G24d-2 18 W

vg



64.832.55-

Weiß / white / blanc
1 x TC-DEL G24q-1 max. 13 W

EVO

Bitte ergänzen Sie die Artikelnummer mit der Artikelnummer des Schirms /
please complete the article number with the number of the shade /
pouvez-vous compléter le numéro d'article avec le code correspondant à l'ABJ:

2095 Korallen altrot / corals red antique /
corail rouge antique

2096 Korallen Edelstahl gebürstet /
corals stainless steel dull / corail acier mat

2094 Korallen Messing brüniert /
corals brass antique / corail laiton antique

2089 Metallgewebe anthrazit mit Flormuster 108 (außen), Chintz (B1) naturweiß 135 (innen) /
metallic fabric charcoal with floral design 108 (outside), chintz (B1) white 135 (inside) /
tissu métallique anthracite avec dessin floral 108 (dehors), chintz (B1) blanc 135 (à l'intérieur)

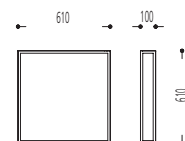
2088 Metallgewebe goldfarbig 107 (außen), Chintz (B1) naturweiß 135 (innen) / metallic fabric
golden 107 (outside), chintz (B1) white 135 (inside) / tissu métallique d'or 107 (dehors), chintz
(B1) blanc 135 (à l'intérieur)

2087 Metallgewebe anthrazit 106 (außen), Chintz (B1) naturweiß 135 (innen) / metallic charcoal
106 (outside), chintz (B1) white 135 (inside) / tissu métallique anthracite 106 (dehors), chintz
(B1) blanc 135 (à l'intérieur)

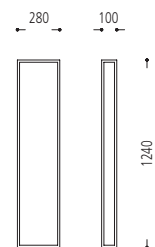
Design: Tech Group

Design: Tech Group

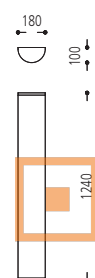




83.342.54
4 x T5 G5 14 W



83.343.54
1 x T5 G5 28 W



83.344.54 (ohne Abbildung /
without illustration / sans image)
1 x T5 G5 28 W

Dunkel brüniert, Schirmmaterial:
Karton elfenbeinfarbig 141 /
dark-bronzed, shade:
cardboard white 141 /
bronze foncé,
ABJ: couleur ivoire 141

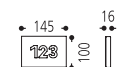


Design: Tech Group

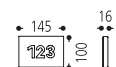
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63.960.82
incl. 1 W LED
weiß/white/
blanc,
ca. 3.500 Kelvin



63.961.82
incl. 1 W LED
blau/blue/bleu



63.963.82
incl. 1 W LED
weiß/white/
blanc,
ca. 3.500 Kelvin



63.964.82
incl. 1 W LED
blau/blue/bleu



63.966.82
incl. 1 W LED
weiß/white/
blanc,
ca. 3.500 Kelvin



63.967.82
incl. 1 W LED
blau/blue/bleu

Edelstahl gebürstet, inkl.
Schaltnetzteil (lose beigelegt) /
stainless steel dull, LED driver
included (added as loose part) /
acier mat, incl. convertiseur LED
(ajouté comme pièce détachée)



71.702.82



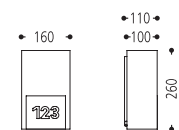
71.703.82



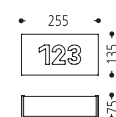
71.701.82 (ohne Abbildung /
without illustration / sans image)

Edelstahl gebürstet /
stainless steel dull /
acier mat

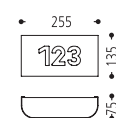
Design: Tech Group



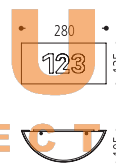
64.831.55-2086
ohne Notlicht, Schirmmaterial:
Chintz naturweiß 135 /
without emergency lighting,
shade: chintz white 135 /
sans éclairage de secours,
ABJ: chintz blanc 135



63.979.82



63.980.82

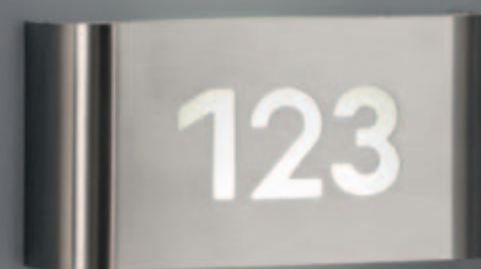
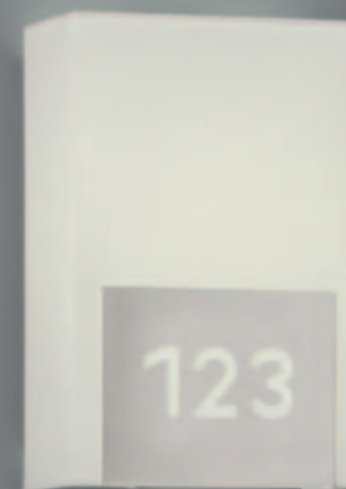


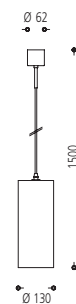
63.978.82

Edelstahl gebürstet /
stainless steel dull /
acier mat
1 x TC-D G24d-2 18 W +
1 x E14 (Notlicht / emergency
lighting / éclairage de secours)



Design: Tech Group





34.126.69
Schwarz / black / noir
1 x E27

Design: Tech Group

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34.123.15
Titansilber / silver / gris argenté
1 x E27

Design: Tech Group



34.125.15
Titansilber, Glas mattiert, mit elektronischem Transformator, dimmbar mit Tronic-Dimmer / silver, frosted glass, with electronic transformer, dimmable by means of Tronic dimmer / gris argenté, verre dépoli, avec transformateur électronique, variation de lumière par variateur Tronic
1 x QR-C 51 GU5,3 12 V/max. 50 W / Coolfit

Design: Tech Group



64.052... L 550
64.062... L 650
64.072... L 750
64.082... L 850

mit Transformator 50 VA /
 with transformer 50 VA /
 avec transformateur 50 VA
 incl. 4 x QT9 G4 12 V/10 W



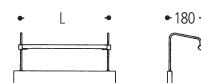
64.063... L 525
64.064... L 625

incl. Flex-LED 12 V/ca. 5 W,
 ca. 3.000 Kelvin

64.065... L 725
64.066... L 825

incl. Flex-LED 12 V/ca. 7 W,
 ca. 3.000 Kelvin

inkl. Schaltnetzteil (lose
 beigelegt) /
 LED driver included (added as
 loose part) /
 convertiseur LED (ajouté comme
 pièce détachée)

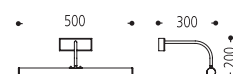


64.043... L 540
 incl. 1 x T2 W4,3 11 W
64.053... L 640
 incl. 1 x T2 W4,3 13 W

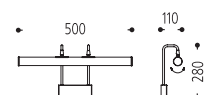
EVG

Bitte ergänzen Sie die
 Artikelnummer mit der Nummer
 der Farbe /
 please complete the article
 number with the colour-code /
 pouvez-vous compléter le
 numéro d'article avec le code
 correspondant à la couleur:
.01 Messing poliert / brass
 polished / laiton poli
.14 Chrom / chrome / chrome

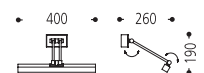
Design: Tech Group



64.056.30
 2 x E14



64.055.30
 2 x E14



64.047.30
 mit elektronischem
 Transformator, dimmbar mit
 Tronic-Dimmer /
 with electronic transformer,
 dimmable by means of Tronic
 dimmer /
 avec transformateur
 électronique, variation de lumière
 par variateur Tronic
 incl. 2 x QT9 G4 12 V/20 W


Nickel blank /
 nickel polished /
 nickel poli

Design: Tech Group



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BIG LIGHTS


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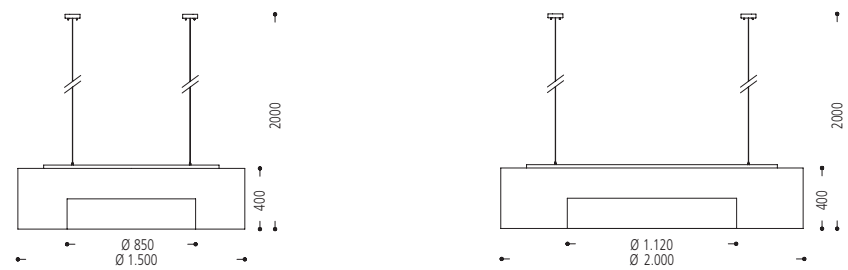
MODUL
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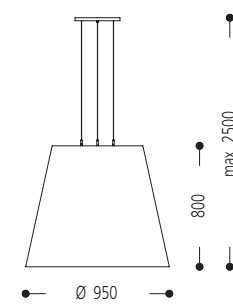
- | | | | |
|--|--|--|--|
| 33.665.15-3715
5 x TC-L 2G11 55 W
 | 33.675.15-3715
5 x TC-L 2G11 55 W
 | 33.667.15-3717
6 x TC-L 2G11 55 W
 | 33.677.15-3717
6 x TC-L 2G11 55 W
 |
|--|--|--|--|

Titansilber, Acrylblende opal weiß, Schirm: Chintz naturweiß 135 /
silver, opal acrylic diffuser, shade: chintz white 135 /
gris argenté, écran en verre acrylique blanc, ABJ: chintz blanc 135

Design: Tech Group



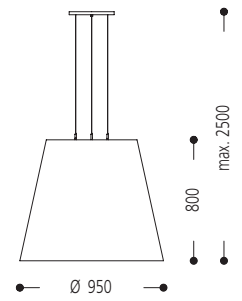
MODUL
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33.905.15-4270

Titansilber, Glasabdeckung opal matt, Schirmmaterial: Taft schwarz 136 (außen), Taft gold 141 (innen) /
silver, opal glass-diffuser, shade: taffeta black 136 (outside), taffeta gold 141 (inside) /
gris argenté, verre opal mat, ABJ: taffetas noir 136 (dehors), taffetas d'or 141 (à l'intérieur)
3 x E27

Design: Sibylle von Heyden

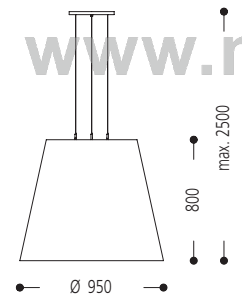


33.905.15-4269
 Titansilber, Glasabdeckung opal matt, Schirmmaterial: Chintz champ 131 (außen), Plissee champ 103 (innen) / silver, opal glass-diffusor, shade: chintz champ 131 (outside), pleated champ 103 (inside) / gris argenté, verre opal mat, ABJ: chintz champ 131 (dehors), plissé champ 103 (à l'intérieur) 3 x E27

Design: Tech Group

MODUL
 ELECTRO

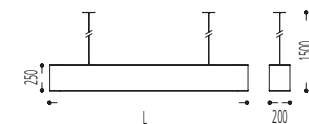
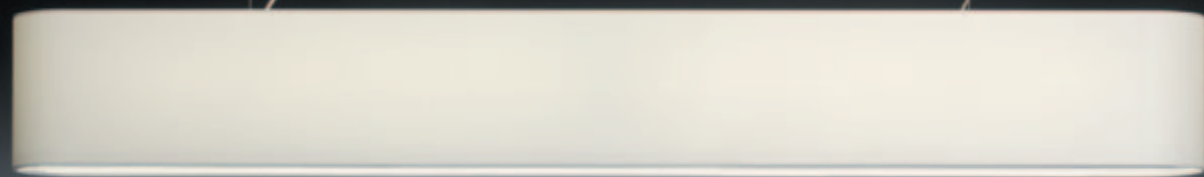
www.modulelectro.ru



33.905.15-4272
 Titansilber, Glasabdeckung opal matt, Schirmmaterial: Chintz grau 128 (außen), Contra H grob natur 105 (innen) / silver, opal glass-diffusor, shade: chintz grey 128 (outside), contra H nature 105 (inside) / gris argenté, verre opal mat, ABJ: chintz gris 128 (dehors), contra H grossier 105 (à l'intérieur) 3 x E27

Design: Tech Group





- 33.568.15-4259** L 1.000
1 x T5 G5 39 W
33.569.15-4260 L 1.300
1 x T5 G5 54 W

Titansilber, Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135 / silver, opal acrylic diffuser, shade: chintz white 135 / gris argenté, écran en verre acrylique blanc, ABJ: chintz blanc 135



Design: Tech Group

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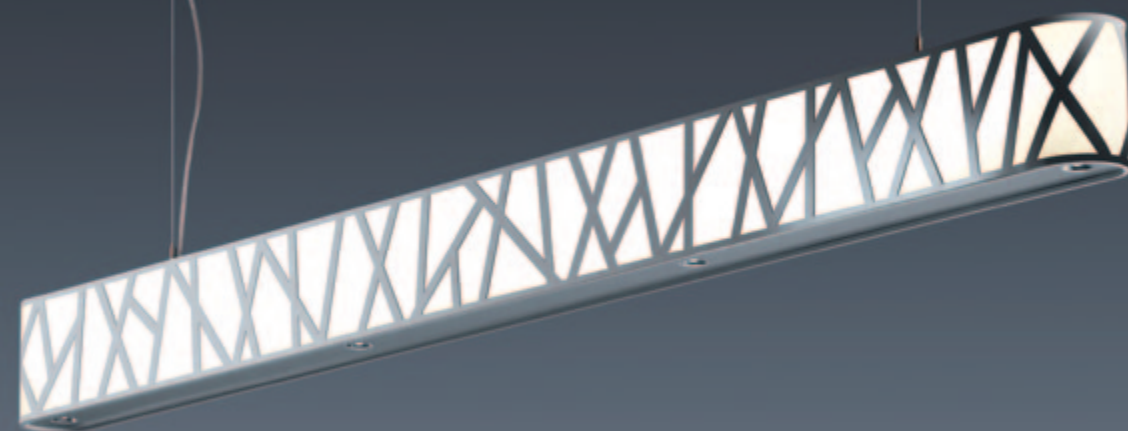


- 33.581.81-4252** L 1.000
1 x T5 G5 39 W +
2 x MR11 GU4 12 V/2 W
33.582.81-4253 L 1.300
1 x T5 G5 54 W +
3 x MR11 GU4 12 V/2 W

Edelstahl blank, mit elektronischem Transformator, Schirmmaterial: Karton elfenbeinfarbig 141 / stainless steel polished, with electronic transformer, shade: cardboard ivory coloured 141 / acier poli, avec transformateur électronique, ABJ: carton couleur ivoire 141

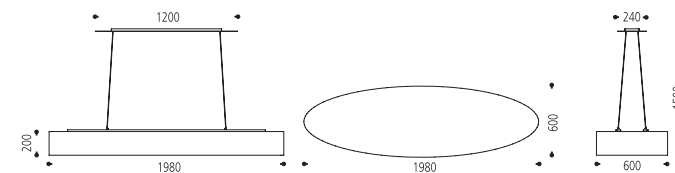


Design: Tech Group





MODUL
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33.558.15-4298

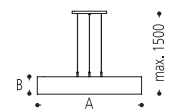
Titansilber, Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135,
kundenspezifisches Logo und Text möglich /
silver, opal acrylic diffuser, shade: chintz white 135,
customer-specific logo and text is possible /
gris argenté, écran en verre acrylique blanc, ABJ: chintz blanc 135,
logo et texte adaptés au client est possible
4 x TC-L 2G11 55 W



Design: Tech Group



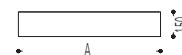
MODUL
ELECTRO
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33.644.15-3813 A 1.140 B 150
4 x TC-L 2G11 55 W
33.643.15-3812 A 940 B 150
4 x TC-L 2G11 55 W
33.642.15-3811 A 740 B 150
4 x TC-L 2G11 36 W
33.641.15-3810 A 550 B 120
1 x T-R5 2GX13 55 W



33.654.15-3813 A 1.140 B 150
4 x TC-L 2G11 55 W
33.653.15-3812 A 940 B 150
4 x TC-L 2G11 55 W
33.652.15-3811 A 740 B 150
4 x TC-L 2G11 36 W
33.651.15-3810 A 550 B 120
1 x T-R5 2GX13 55 W



83.648.55-3722 A 940
4 x TC-L 2G11 36 W
83.647.55-3721 A 740
3 x TC-L 2G11 36 W
83.646.55-3720 A 550
1 x T-R5 2GX13 55 W



83.658.55-3722 A 940
4 x TC-L 2G11 36 W
83.657.55-3721 A 740
3 x TC-L 2G11 36 W
83.656.55-3720 A 550
1 x T-R5 2GX13 55 W



Titansilber, Acrylblende opal weiß, Schirmmaterial: Leinenstruktur 140 / silver, opal acrylic diffuser, shade: linen-structure 140 / gris argenté, écran en verre acrylique blanc, ABJ: toile-structure 140

Design: Tech Group

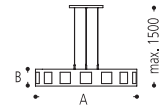
Weiß, Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135 / white, opal acrylic diffuser, shade: chintz white 135 / blanc, écran en verre acrylique blanc, ABJ: chintz blanc 135

Design: Tech Group

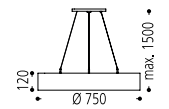




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- 33.644.15-3713** A 1.140 B 150
4 x TC-L 2G11 55 Watt
- 33.643.15-3712** A 940 B 150
4 x TC-L 2G11 55 Watt
- 33.642.15-3711** A 740 B 150
4 x TC-L 2G11 36 Watt
- 33.641.15-3710** A 550 B 120
1 x T-R5 2GX 13 55 Watt



- 33.654.15-3713** A 1.140 B 150
4 x TC-L 2G11 55 Watt
- 33.653.15-3712** A 940 B 150
4 x TC-L 2G11 55 Watt
- 33.652.15-3711** A 740 B 150
4 x TC-L 2G11 36 Watt
- 33.651.15-3710** A 550 B 120
1 x T-R5 2GX 13 55 Watt



- 33.647.15-3843**

33.657.15-3843

Titansilber, Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135 / silver, opal acrylic diffuser, shade: chintz white 135 / gris argenté, écran en verre acrylique blanc, ABJ: chintz blanc 135

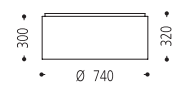
Design: Tech Group

Titansilber, Acrylblende opal weiß, Schirmmaterial: Chintz champ 131 / silver, opal acrylic diffuser, shade: chintz champ 131 / gris argenté, écran en verre acrylique blanc, ABJ: chintz champ 131
4 x TC-L 2G11 24 W

Design: Tech Group



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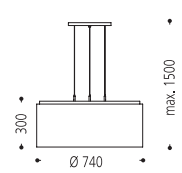
83.632.55-3816



83.622.55-3816



Weiß / white / blanc



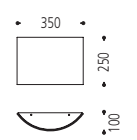
33.632.15-3816



33.622.15-3816



Titansilber / silver / gris argenté



64.830.55-2083

Weiß, Schirmmaterial: Chintz naturweiß 135 / white, shade: chintz white 135 / blanc, ABJ: chintz blanc 135
1 x TC-D G24d-2 18 W

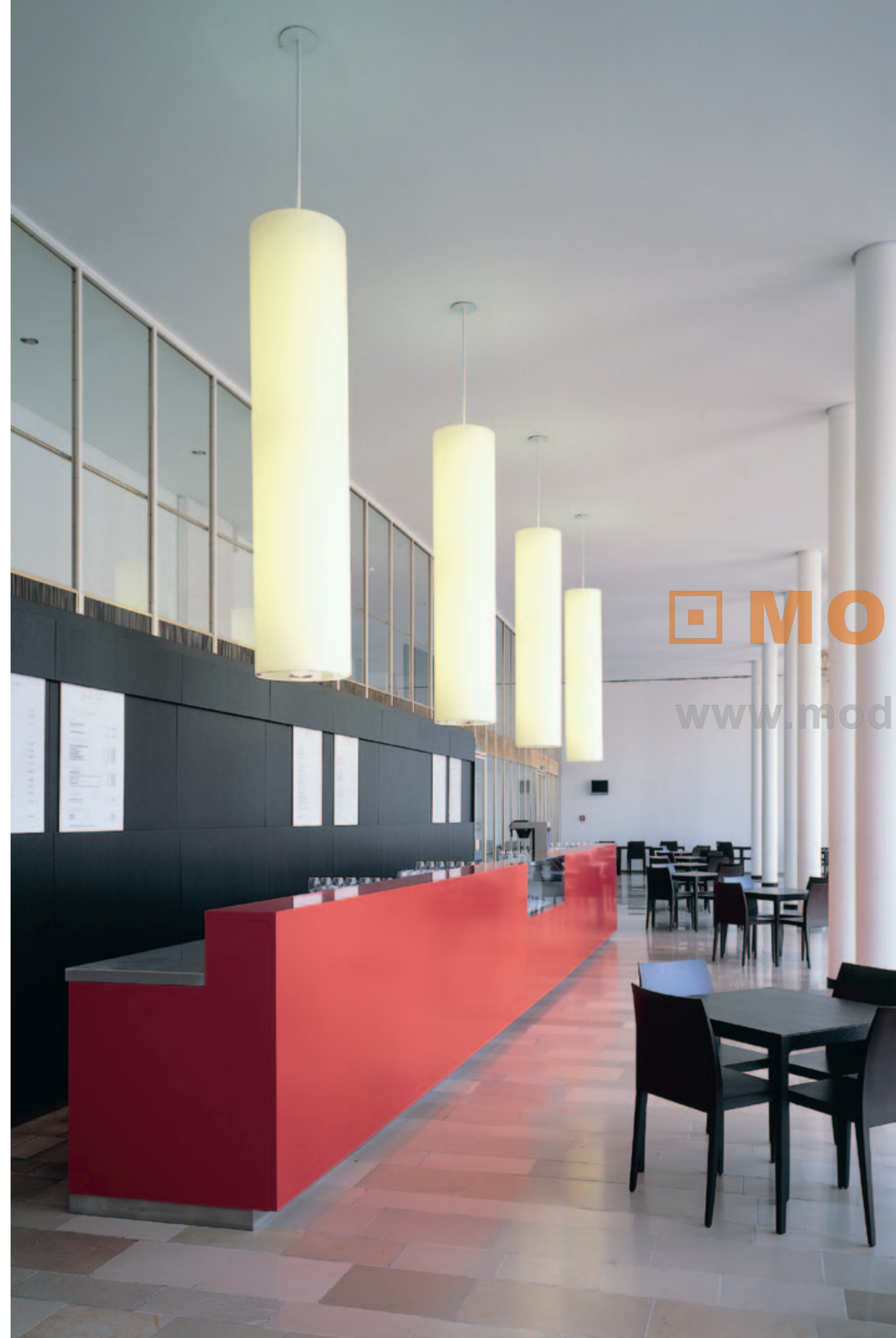


Design: Tech Group

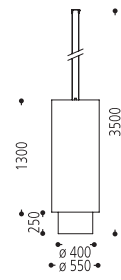
Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135 / opal acrylic diffuser, shade: chintz white 135 / écran en verre acrylique blanc, ABJ: chintz blanc 135
4 x TC-L 2G11 36 W

Design: Tech Group





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34.908.15-4294

Schirmmaterial: Chintz gelb 132 (außen), Chintz weiß 130 (innen) /
shade: chintz yellow 132 (outside), chintz white 130 (inside) /
ABJ: chintz jaune 132 (dehors), chintz blanc 130 (à l'intérieur)

34.908.15-4295

Schirmmaterial: Chintz champ 131 (außen), Chintz weiß 130 (innen) /
shade: chintz champ 131 (outside), chintz white 130 (inside) /
ABJ: chintz champ 131 (dehors), chintz blanc 130 (à l'intérieur)

34.908.15-4296

Schirmmaterial: Chintz rohweiß 133 (außen), Chintz weiß 130 (innen) /
shade: chintz white 133 (outside), chintz white 130 (inside) /
ABJ: chintz blanc 133 (dehors), chintz blanc 130 (à l'intérieur)

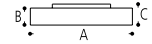
34.908.15-4297

Schirmmaterial: Contra H grob natur 105 (außen), Chintz weiß 130 (innen) /
shade: contra H coarse nature 105 (outside), chintz white 130 (inside) /
ABJ: contra H grossier nature 105 (dehors), chintz blanc 130 (à l'intérieur)

Titansilber / silver / gris argenté
4 x T8 G13 36 W (L970) + 1 x E27



Design: k/h



- 83.644.15** A 1.140 B 150 C 170
4 x TC-L 2G11 55 W
- 83.643.15** A 940 B 150 C 170
4 x TC-L 2G11 55 W
- 83.642.15** A 740 B 150 C 170
3 x TC-L 2G11 55 W
- 83.641.15** A 550 B 120 C 140
1 x T-R5 2GX13 55 W



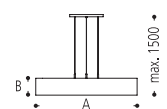
- 83.654.15** A 1.140 B 150 C 170
4 x TC-L 2G11 55 W
- 83.653.15** A 940 B 150 C 170
4 x TC-L 2G11 55 W
- 83.652.15** A 740 B 150 C 170
3 x TC-L 2G11 55 W
- 83.651.15** A 550 B 120 C 140
1 x T-R5 2GX13 55 W



Titansilber, Acrylblende opal
weiß /
silver, opal acrylic diffusor /
gris argenté, écran en verre
acrylique blanc

Design: Tech Group

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- 34.644.15** A 1.140 B 150
4 x TC-L 2G11 55 W
- 34.643.15** A 940 B 150
4 x TC-L 2G11 55 W
- 34.649.15** A 740 B 150
3 x TC-L 2G11 55 W
- 34.641.15** A 550 B 120
1 x T-R5 2GX13 55 W



- 34.654.15** A 1.140 B 150
4 x TC-L 2G11 55 W
- 34.653.15** A 940 B 150
4 x TC-L 2G11 55 W
- 34.659.15** A 740 B 150
3 x TC-L 2G11 55 W
- 34.651.15** A 550 B 120
1 x T-R5 2GX13 55 W

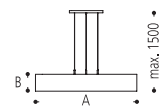


Titansilber, Acrylblende opal weiß /
silver, opal acrylic diffusor /
gris argenté, écran en verre acrylique blanc

Design: Tech Group



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- 34.661.15** A 740 B 150
- 34.652.15** A 550 B 120

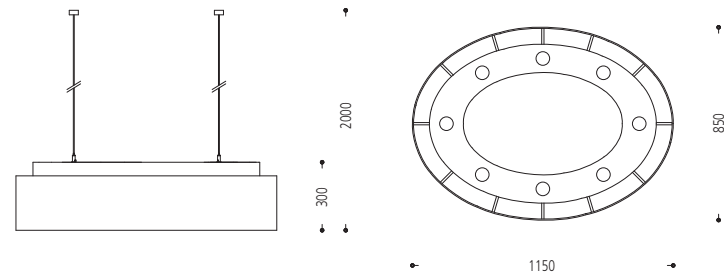
EVG

- 34.660.15** A 740 B 150
- 34.642.15** A 550 B 120

140V

Titansilber, Acrylblende opal weiß, die Innenwand des Metallkorpus ist standardmäßig weiß lackiert und kann nach Kundenwunsch farbig (RAL) lackiert werden / silver, opal acrylic diffuser, the inner wall of the metal body is painted in white (standard), but can on request be painted in any RAL colour / gris argenté, écran en verre acrylique blanc, la paroi intérieure du corps métallique est laquée en blanc (exécution standard) et peut être laquée en couleur (selon RAL)
1 x T-R5 2GX13 55 W

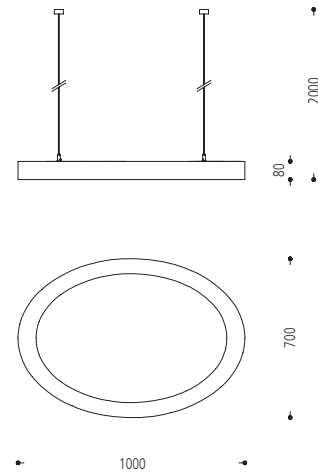
Design: IDA 14



33.560.15-4263
 Titansilber, mit elektronischem Transformator, Schirmmaterial: Pongée sand 101, plissiert /
 silver, with electronic transformer, shade: pongée sand coloured 101, pleated /
 gris argenté, avec transformateur électronique, ABJ: pongée couleur sable 101, plissé
 8 x QR-CBC51 GX5,3 12 V/max. 20 W
 oder / or / ou
 8 x MR16 GU5,3 12 V/4 W LED

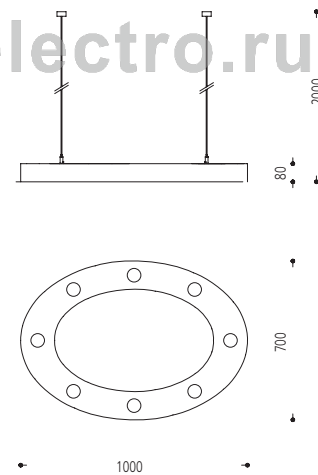
Design: Tech Group

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34.545.15
 Titansilber, Acrylblende opal weiß,
 inkl. Schaltnetzteil /
 silver, opal acrylic diffuser, LED
 driver included /
 gris argenté, écran en verre acrylique
 blanc, incl. convertiseur LED
 incl. Flex-LED 12 V/ca. 25 W,
 ca. 3.000 Kelvin

Design: Tech Group




34.560.15
 Titansilber, mit elektronischem
 Transformator /
 silver, with electronic transformer /
 gris argenté, avec transformateur
 électronique
 8 x QR-CBC51 GX5,3 12 V/max. 20 W
 oder / or / ou
 8 x MR16 GU5,3 12 V/4 W LED

Design: Tech Group



BATHROOM




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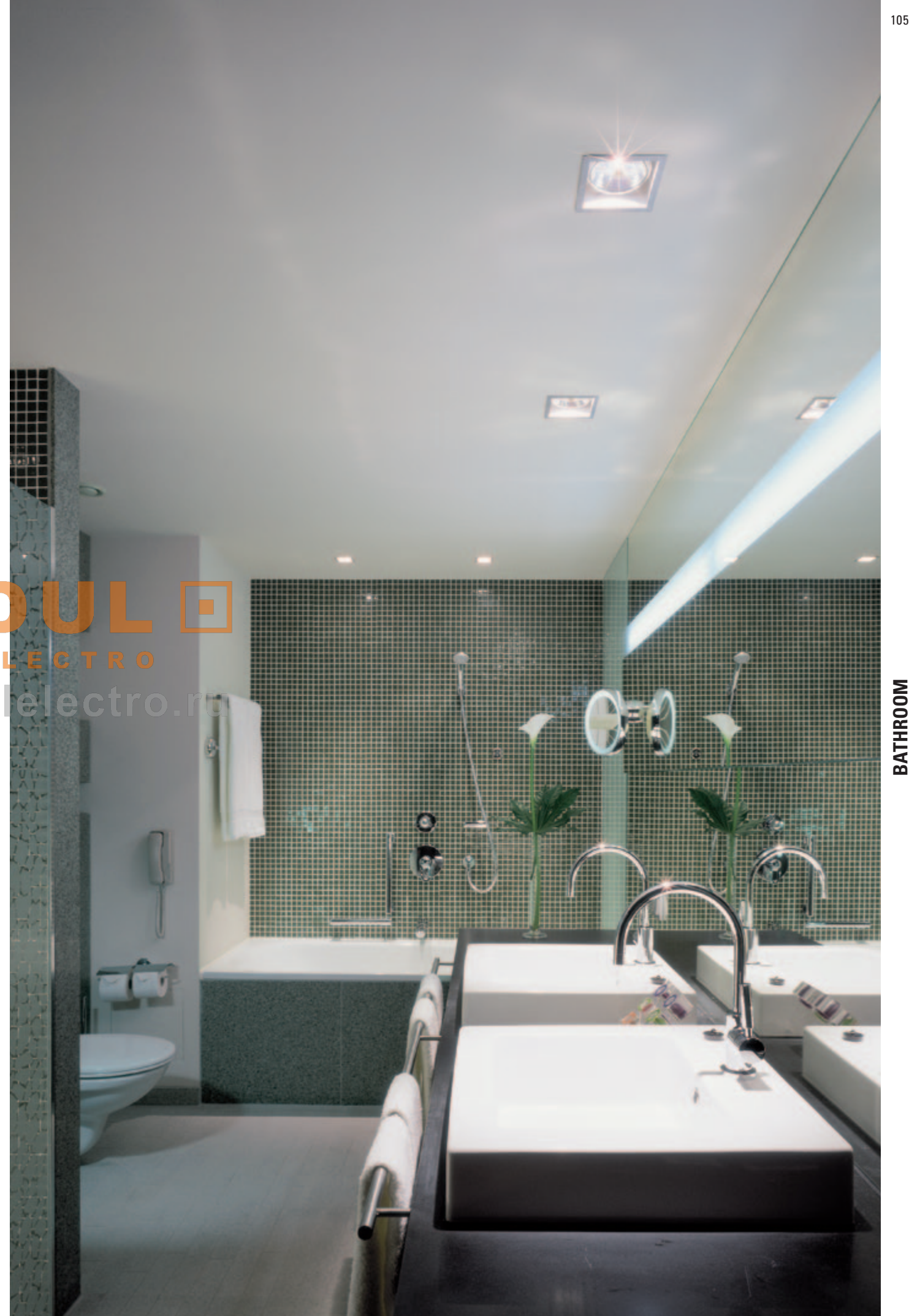



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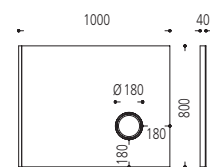


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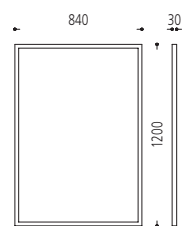


65.725.00

mit integriertem Vergrößerungsspiegel, inkl. Schaltnetzteil /
with integrated enlargement mirror, LED driver included /
avec miroir agrandissant intégré, incl. convertiseur LED
incl. Flex-LED 12 V/ca. 10 W, ca. 3.000 Kelvin

IP44

Design: Tech Group

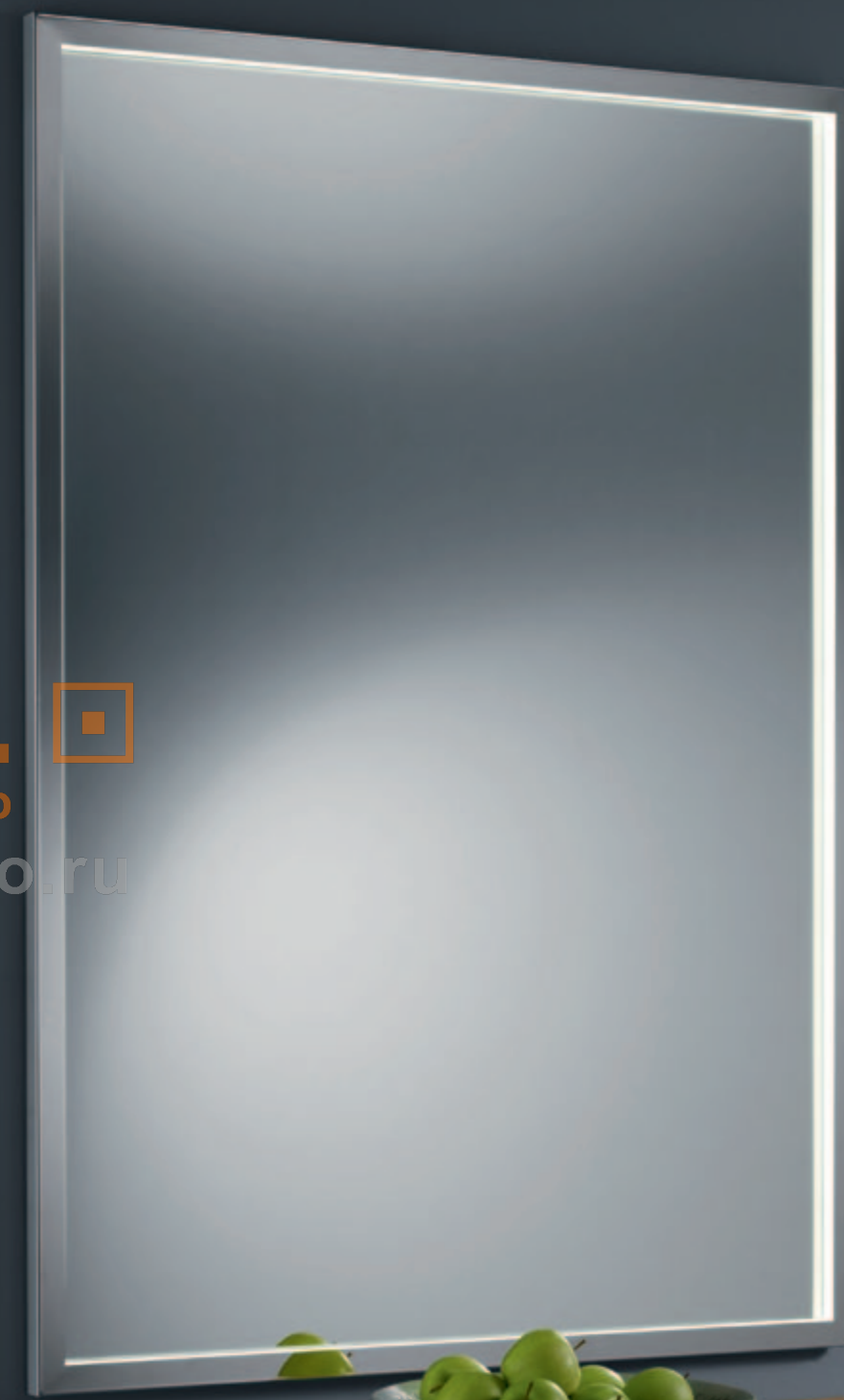


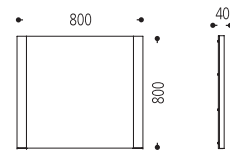
65.715.81

Edelstahl blank, Acrylblende opal weiß, inkl. Schaltnetzteil
(lose beigelegt) /
stainless steel polished, opal acrylic diffuser, LED driver
included (added as loose part) /
acier poli, écran en verre acrylique blanc, incl. convertiseur
LED (ajouté comme pièce détachée)
incl. Flex-LED 12 V/ca. 20 W, ca. 3.000 Kelvin

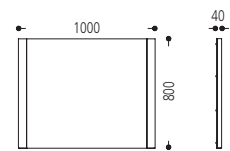
IP44

Design: Tech Group





65.620.00



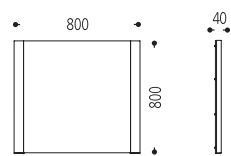
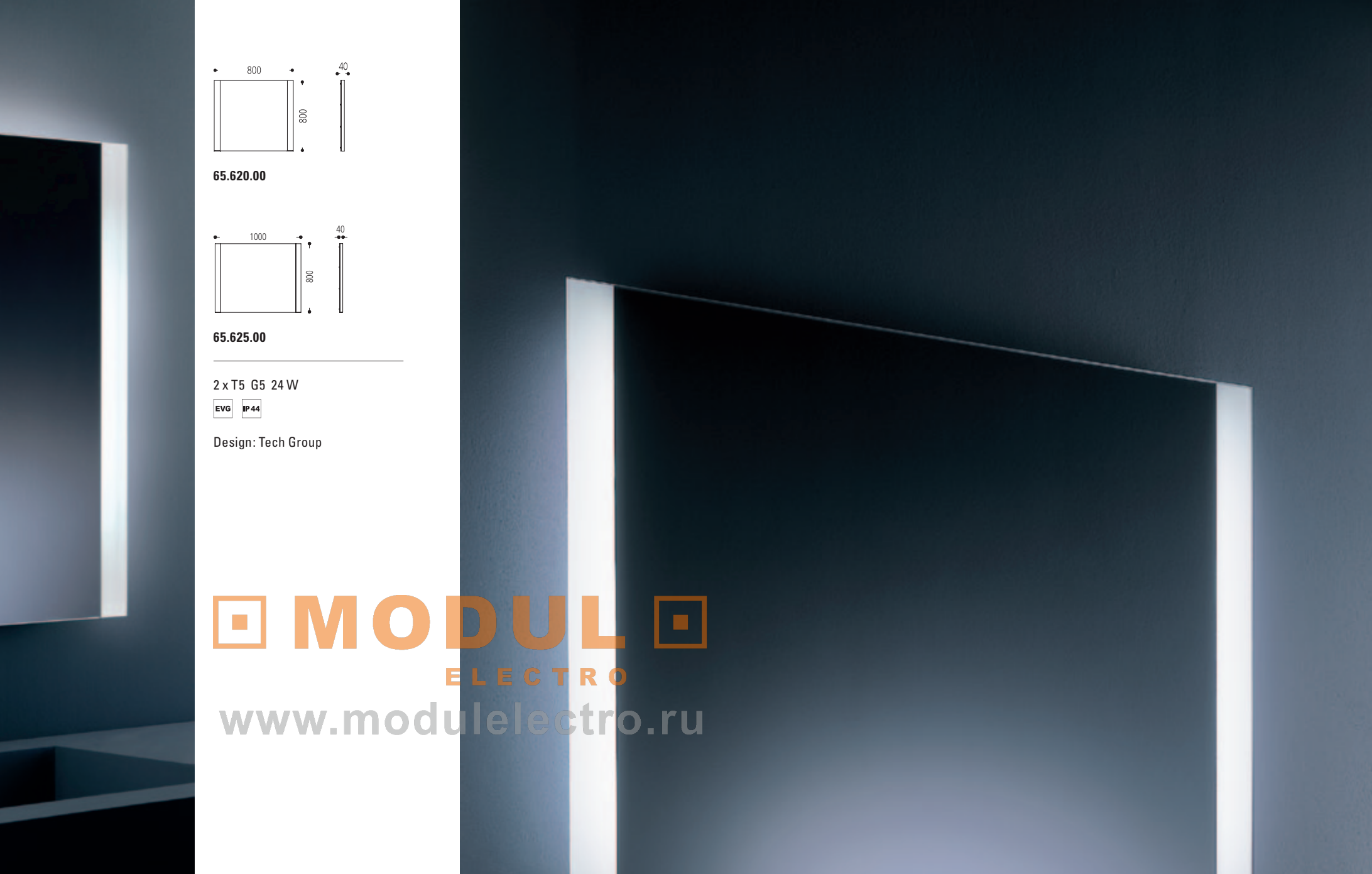
65.625.00

2 x T5 G5 24 W

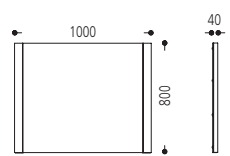
EVG IP44

Design: Tech Group

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65.621.00



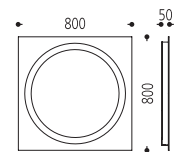
65.626.00

3 x T5 G5 24 W

EVG IP44

Design: Tech Group



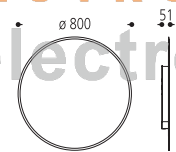


65.645.00
1 x T-R5 2GX13 55 W

EVG IP44

Design: Tech Group

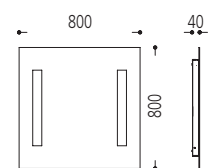
MODUL
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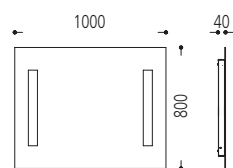
65.627.00
1 x T-R5 2GX13 55 W

EVG IP44

Design: Tech Group



65.612.00



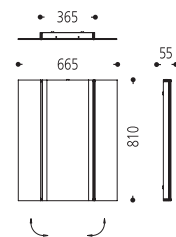
65.617.00

2 x T5 G5 24 W

EVG IP44

Design: Tech Group



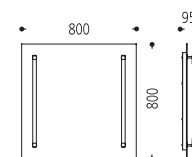
**65.640.14**

Chrom, Sicherungs-Sofortstarter /
chrome, safety starter /
chrome, starter de sécurité
2 x T5 G5 24 W

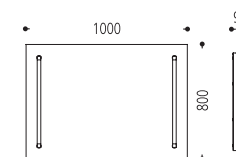
EVG IP40

Design: Tech Group

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65.630.14
2 x T2 W4,3 13 W



65.635.14
2 x T2 W4,3 13 W



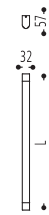
65.099.14
1 x T2 W4,3 13 W

Chrom / chrome / chrome

EVG IP40

Design: Tech Group





65.346.81 L 600
 1 x T5 G5 14 W
65.347.81 L 900
 1 x T5 G5 21 W

Edelstahl blank /
 stainless steel polished /
 acier poli



Design: Tech Group

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65.372.81 L 600
 1 x T5 G5 14 W
65.373.81 L 900
 1 x T5 G5 21 W

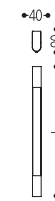


65.374.81 L 600
 1 x T5 G5 14 W
65.375.81 L 900
 1 x T5 G5 21 W

Edelstahl blank / stainless steel polished / acier poli



Design: Tech Group



65.142.81 L 600
1 x T8 G13 15 W

65.143.81 L 800
1 x T8 G13 18 W

65.144.81 L 1.000
1 x T8 G13 30 W

65.145.81 L 1.200
1 x T8 G13 30 W

Edelstahl blank /
stainless steel polished /
acier poli



Design: Tech Group

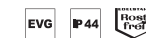
MODUL
ELECTRO
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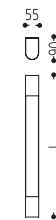
65.452.81 L 600
1 x T5 G5 14 W

65.453.81 L 900
1 x T5 G5 21 W

Edelstahl blank /
stainless steel polished /
acier poli



Design: Tech Group



65.442.81 L 600
1 x T5 G5 14 W

65.443.81 L 800
1 x T5 G5 14 W

65.444.81 L 1.000
1 x T5 G5 21 W

65.445.81 L 1.200
1 x T5 G5 28 W

Edelstahl blank /
stainless steel polished /
acier poli



Design: Tech Group



65.662.81 L 600

1 x T5 G5 14 W

65.663.81 L 800

1 x T5 G5 14 W

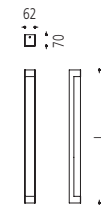
65.664.81 L 1.000

1 x T5 G5 21 W

Edelstahl blank /
stainless steel polished /
acier poli



Design: Tech Group



65.377.81 L 600

1 x T5 G5 14 W

65.378.81 L 800

1 x T5 G5 14 W

65.379.81 L 1.000

1 x T5 G5 21 W

65.380.81 L 1.200

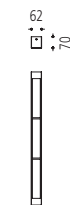
1 x T5 G5 28 W

Edelstahl blank /
stainless steel polished /
acier poli



Design: Tech Group

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65.677.81 L 600

1 x T5 G5 14 W

65.678.81 L 800

1 x T5 G5 14 W

65.679.81 L 1.000

1 x T5 G5 21 W

65.680.81 L 1.200

1 x T5 G5 28 W

Edelstahl blank /
stainless steel polished /
acier poli



Design: Tech Group



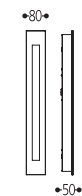


- 65.603...** L 300
1 x L-DE S14s 35 W
oder / or / ou
1 x L-DE S14s 6 W LED
65.604... L 500
1 x L-DE S14s 60 W
65.605... L 1.000
1 x L-DE S14s 120 W

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe / please complete the article number with the colour-code / pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:
.81 Edelstahl blank / stainless steel polished / acier poli
.82 Edelstahl gebürstet / stainless steel dull / acier mat



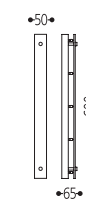
MODULO
ELECTRO
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- 65.272.81**
Edelstahl blank, Spiegelglas, teilsatiniert / stainless steel polished, mirror-glass, partly satinized / acier poli, miroir, partiellement satiné
1 x T2 W4,3 13 W



Design: Tech Group



- 65.270.81**
mit elektronischem Transformator dimmbar mit Tronic-Dimmer / with electronic transformer, dimmable by means of Tronic dimmer / avec transformateur électronique, variation de lumière par variateur Tronic
4 x QT9 G4 12 V/max. 10 W

Edelstahl blank / stainless steel polished / acier poli

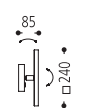


Design: Tech Group



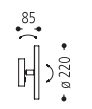
- 65.269.81**
1 x T2 W4,3 13 W



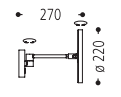


65.584.81
 Edelstahl blank, inkl. Schaltnetzteil / stainless steel polished, LED driver included / acier poli, incl. convertiseur LED incl. 3 x 1 W LED, ca. 3.500 Kelvin
 IP40

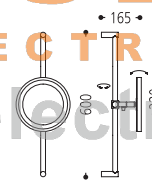
Design: Grimm/Kraege



65.580.14
 (ohne Abbildung / without illustration / sans image)

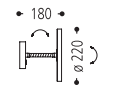


65.581.14
MODULO ELECTRO
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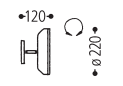
65.582.14
 Chrom, inkl. Schaltnetzteil / chrome, LED driver included / chrome, incl. convertiseur LED incl. 3 x 1 W LED, ca. 3.500 Kelvin
 IP40

Design: Tech Group

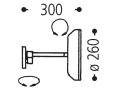


65.583.14
 Chrom, inkl. Schaltnetzteil / chrome, LED driver included / chrome, incl. convertiseur LED incl. 3 x 1 W LED, ca. 3.500 Kelvin
 IP40

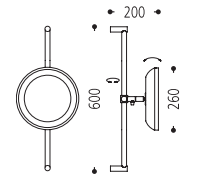
Design: Tech Group



65.501...



65.601...



65.600...

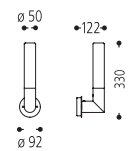
2 x TC-S G23 max. 9 W

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe / please complete the article number with the colour-code / pouvez-vous compléter le numéro d'article avec le code correspondant à la couleur:

- .01 Messing poliert / brass polished / laiton poli
- .14 Chrom / chrome / chrome
- .55 Weiß / white / blanc

VG IP40

Design: Tech Group



65.311.14

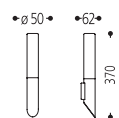
Chrom / chrome / chrome
1 x E14

IP44

Design: Tech Group



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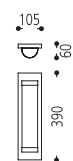


65.310.14

Chrom / chrome / chrome
1 x E14

IP44

Design: Tech Group



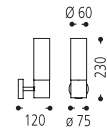
65.239.81

Edelstahl blank /
stainless steel polished /
acier poli
2 x QT14 G9 max. 25 W

IP44

Design: Tech Group





65.317.14
 Chrom / chrome / chrome
 1 x TC-DEL G24q-1 max. 13 W

EVG IP44

Design: Tech Group

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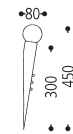
65.295...

1 x E14

65.296...

1 x TC-SEL 2G7 max. 11 W

EVG IP44



65.300...

1 x G80 E27

IP20

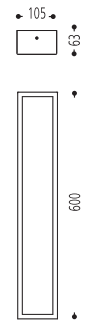
Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
 please complete the article number with the colour-code /
 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

.14 Chrom / chrome / chrome

.15 Titansilber / silver / gris argenté

Design: Tech Group

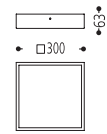




65.461.82
2 x TC-D G24d-2 18 W



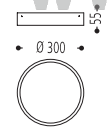
65.457.82
1 x T5 G5 24 W



65.463.82
2 x TC-D G24d-2 18 W



65.459.82
1 x T-R5 2GX13 22 W



65.462.82
2 x TC-D G24d-2 18 W



65.458.82
1 x T-R5 2GX13 22 W

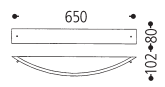


Edelstahl gebürstet /
stainless steel brushed /
acier mat



Design: Grimm/Kraege

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65.290.81
Edelstahl blank /
stainless steel polished /
acier poli
2 x TC-S G23 max. 9 W



Design: Tech Group



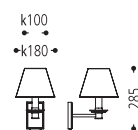


63.185.14-726
 Chrom, Glas weiß matt /
 chrome, white matt glass /
 chrome, verre blanc mat
 1 x E14



Design: Tech Group

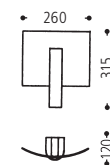
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63.166.14-4130
 Chrom, Schirmmaterial: Chintz naturweiß 135 /
 chrome, shade: chintz white 135 /
 chrome, ABJ: chintz blanc 135
 1 x E14



Design: Tech Group



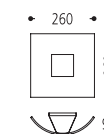
64.924.81-426
 1 x E27
64.925.81-426
 1 x TC-D G24d-2 18 W



Edelstahl blank, Glas mattiert /
 stainless steel polished, frosted glass /
 acier poli, verre dépoli



Design: Tech Group



64.952.30
 1 x TC-D G24d-2 18 W



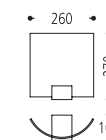
64.962.30
 2 x TC-DEL G24q-2 18 W



Nickel blank, Glas mattiert /
 nickel polished, frosted glass /
 nickel poli, verre dépoli



Design: Tech Group



64.825.14-512
 1 x TC-D G24d-2 18 W



64.826.14-512
 2 x TC-DEL G24q-2 18 W



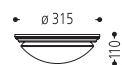
Chrom, Glas mattiert /
 chrome, frosted glass /
 chrome, verre dépoli



Design: Grimm/Kraege



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83.401.14
1 x E27

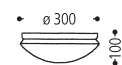
83.403.14

inkl. Leuchtmittel mit integriertem EVG / light source with integrated electronic ballast included / incl. source lumineuse avec intégrer self conventionnelle électronique
1 x TC-DDSE GRZ10d 18 W

Chrom / chrome / chrome



Design: Tech Group

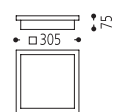


83.301.14

1 x E27

83.303.14

1 x TC-D G24d-1 max. 13 W



83.330.81

2 x QT14 G9 max. 25 W

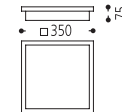
83.333.81

inkl. Leuchtmittel mit integriertem EVG / light source with integrated electronic ballast included / incl. source lumineuse avec intégrer self conventionnelle électronique
1 x TC-DDSE GRZ10d 18 W

Edelstahl blank / stainless steel polished / acier poli



Design: Tech Group




83.336.81

3 x QT14 G9 max. 25 W


83.339.81

inkl. Leuchtmittel mit integriertem EVG / light source with integrated electronic ballast included / incl. source lumineuse avec intégrer self conventionnelle électronique
1 x TC-DDSE GRZ10t 30 W

BUSINESS


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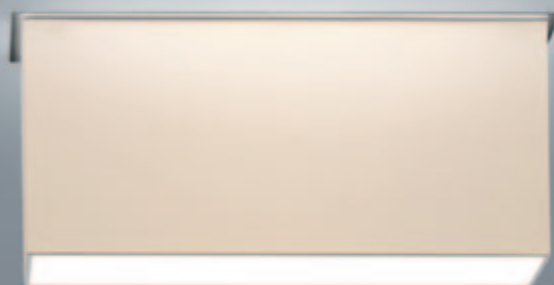
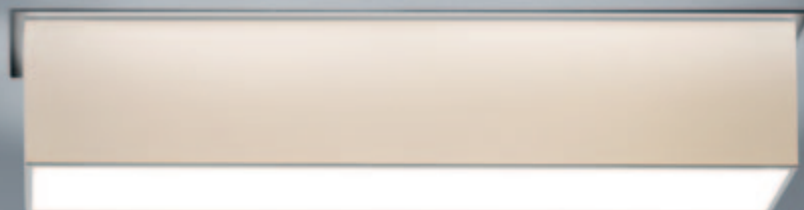

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86.343.81-



86.353.81-



Edelstahl blank, Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135 / stainless steel polished, opal acrylic diffuser, shade: chintz white 135 / acier poli, écran en verre acrylique blanc, ABJ: chintz blanc 135
1 x TC-TEL GX24q-3 26 W

Bitte ergänzen Sie die Artikelnummer mit der Nummer des Schirms / please complete the article number with the number of the shade /

pouvez-vous compléter le numéro d'article avec le code correspondant à l'ABJ:

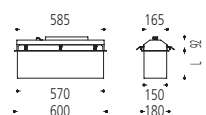
4013 L 180

4014 L 360

4015 L 540

www.modulelectro.ru

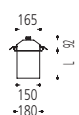
Design: Tech Group



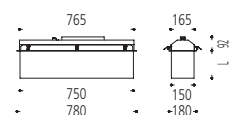
86.347.81-



1 x TC-L 2G11 55 W



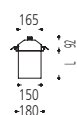
86.357.81-



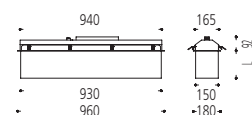
86.348.81-



2 x TC-L 2G11 36 W



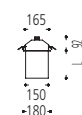
86.358.81-



86.349.81-



2 x TC-L 2G11 36 W



86.359.81-



Bitte ergänzen Sie die Artikelnummer mit der Nummer des Schirms / please complete the article number with the number of the shade / pouvez-vous compléter le numéro d'article avec le code correspondant à l'ABJ:

4016 L 180

4017 L 360

4018 L 540

4019 L 180

4020 L 360

4021 L 540

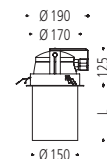
4022 L 180

4023 L 360

4024 L 540

Edelstahl blank, Acrylblende opal weiß, Schirmmaterial: Chintz naturweiß 135 / stainless steel polished, opal acrylic diffuser, shade: chintz white 135 / acier poli, écran en verre acrylique blanc, ABJ: chintz blanc 135

Design: Tech Group



86.340.81-



86.350.81-



Edelstahl blank, Acrylblende
opal weiß, Schirmmaterial:
Chintz naturweiß 135 /
stainless steel polished, opal
acrylic diffusor, shade: chintz
white 135 /
acier poli, ecran en verre
acrylique blanc, ABJ: chintz
blanc 135
1 x TC-TEL GX24q-3 26 W

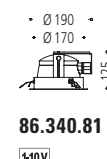
Bitte ergänzen Sie die
Artikelnummer mit der Nummer
des Schirms /
please complete the article
number with the number of the
shade /
pouvez-vous compléter le
numéro d'article avec le code
correspondant à l'ABJ:

4010 L 180

4011 L 360

4012 L 540

Design: Tech Group



86.340.81

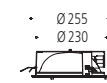


86.350.81



Edelstahl blank /
stainless steel polished /
acier poli
1 x TC-TEL GX24q-3 26 W

Design: Tech Group



86.344.55

1 x TC-DEL G24q-2 18 W

86.345.55

1 x TC-DEL G24q-3 26 W



86.354.55

1 x TC-DEL G24q-2 18 W

86.355.55

1 x TC-DEL G24q-3 26 W



Weiß, Glas mattiert /
white, matt glass /
blanc, verre mat

Design: Tech Group



86.342.81

1 x TC-DEL G24q-2 18 W

86.343.81

1 x TC-TEL GX24q-3 26 W



86.352.81

1 x TC-DEL G24q-2 18 W

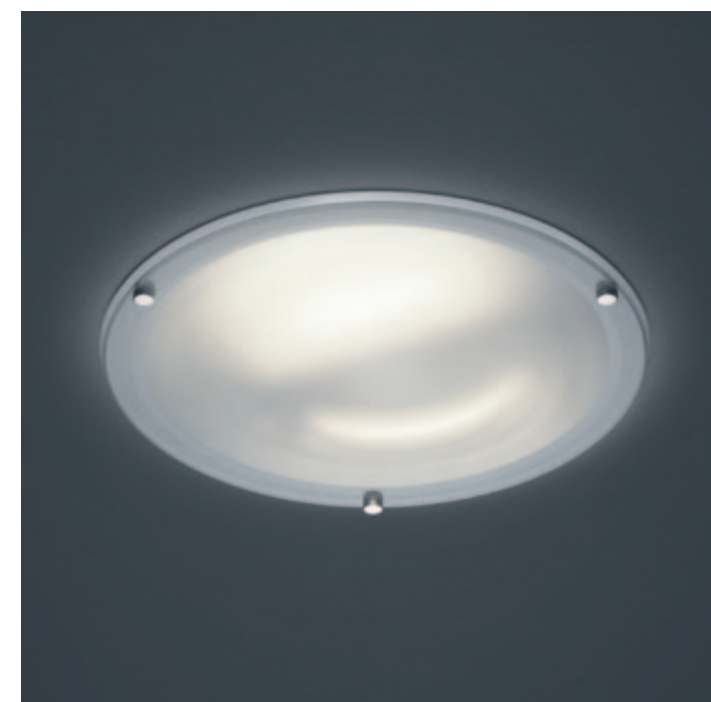
86.353.81

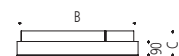
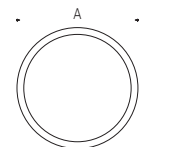
1 x TC-TEL GX24q-3 26 W



Edelstahl blank /
stainless steel polished /
acier poli

Design: Tech Group





84.610.15-71.900.15 A 400 B 365 C 125
1 x T-R5 2GX13 40 W

84.611.15-71.901.15 A 600 B 565 C 125
1 x T-R5 2GX13 55 W

84.612.15-71.902.15 A 800 B 765 C 160
3 x TC-L 2G11 55 W

84.613.15-71.903.15 A 1.000 B 965 C 160
4 x TC-L 2G11 55 W

84.614.15-71.904.15 A 1.200 B 1.165 C 160
6 x TC-L 2G11 55 W



84.615.15-71.904.15 A 1.200 B 1.165 C 160
6 x TC-L 2G11 55 W

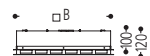
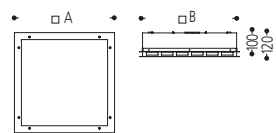


Titansilber, Acrylabdeckung opal weiß, mit Ring für Halbeinbauleuchte, Befestigung an der Grunddecke durch bauseits zu stellende Gewindestangen o.ä. / silver, opal acrylic diffusor, with ring, fixation at the ceiling with threaded rod or the like, provided onsite / gris argenté, écran en verre acrylique blanc, avec anneau, fixation au plafond avec tiges filitées non fournies

Design: Tech Group



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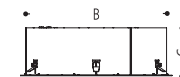
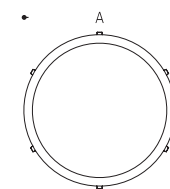


84.530.82 A 430 x 430 B 415 x 415
4 x TC-L 2G11 24 W

84.531.82 A 625 x 625 B 600 x 600
4 x TC-L 2G11 36 W

Edelstahl gebürstet, Acrylabdeckung opal weiß / stainless steel dull, opal acrylic diffusor / acier mat, écran en verre acrylique blanc

Design: Tech Group



84.610.15 A 400 B 365 C 125
1 x T-R5 2GX13 40 W

84.611.15 A 600 B 565 C 125
1 x T-R5 2GX13 55 W

84.612.15 A 800 B 765 C 160
3 x TC-L 2G11 55 W

84.613.15 A 1.000 B 965 C 160
4 x TC-L 2G11 55 W

84.614.15 A 1.200 B 1.165 C 160
6 x TC-L 2G11 55 W



84.615.15 A 1.200 B 1.165 C 160
6 x TC-L 2G11 55 W

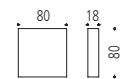


Titansilber, Acrylabdeckung opal weiß / silver, opal acrylic diffusor / gris argenté, écran en verre acrylique blanc

Design: Tech Group



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64.357...

zzgl. Schaltnetzteil / plus LED driver / convertiseur LED á ajouter
incl. 3 W Line-LED, ca. 3.000 Kelvin

geeignet zum Einbau in Hohlwanddose /
suitable for mounting in recessing-box /
prévu pour un montage dans une boîte d'encastrement

Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
please complete the article number with the colour-code /
pouvez-vous compléter le numéro d'article avec le code correspondant
à la couleur:

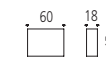
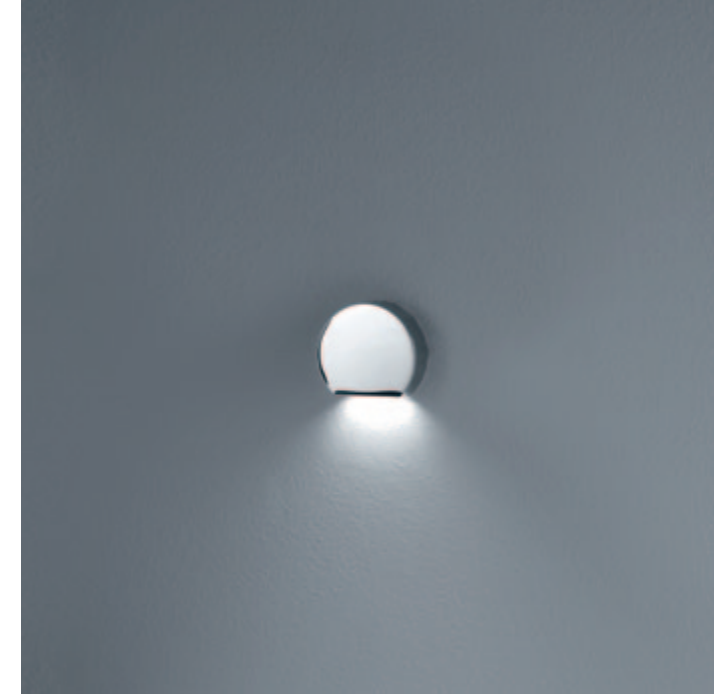
- .15 Titansilber / silver / gris argenté
- .54 Dunkel brüniert / dark bronzed / bronze foncé
- .81 Edelstahl blank / stainless steel polished / acier poli

Design: Tech Group



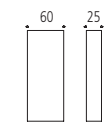
64.355... *

zzgl. Schaltnetzteil /
plus LED driver /
convertiseur LED á ajouter
incl. 3 W Line-LED, ca. 3.000 Kelvin



64.356... *

zzgl. Schaltnetzteil /
plus LED driver /
convertiseur LED á ajouter
incl. 3 W Line-LED, ca. 3.000 Kelvin



64.358... *

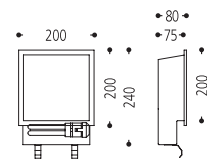
inkl. Schaltnetzteil /
LED driver included /
incl. convertiseur LED
incl. 3 W Line-LED, ca. 3.000 Kelvin

* Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
please complete the article number with the colour-code /
pouvez-vous compléter le numéro d'article avec le code correspondant
à la couleur:

- .15 Titansilber / silver / gris argenté
- .54 Dunkel brüniert / dark bronzed / bronze foncé
- .81 Edelstahl blank / stainless steel polished / acier poli

Design: Tech Group

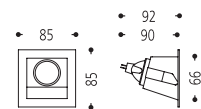


**87.112.82**

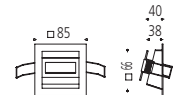
Edelstahl gebürstet,
Glas weiß mattiert /
stainless steel dull,
white matt glass /
acier mat, verre blanc mat
1 x TC-D G24d-1 max. 13 W



Design: Tech Group

**87.111.15**

1 x QR-CBC 35 GZ4 12 V/max. 35 W

**88.223.15**

zzgl. Schaltnetzteil /
plus LED driver /
convertiseur LED à ajouter
incl. 3 W Line-LED,
ca. 3.000 Kelvin

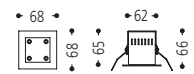
Titansilber / silver / gris argenté



Design: Tech Group

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**84.281.15-6026**

Glas weiß satiniert (eingesetzt) /
white frosted glass (glass inserted) /
verre blanc satiné (verre inséré)

**84.281.15**

Titansilber / silver / gris argenté
1 x QR-CBC 35 GZ4 12 V/max. 35 W
oder / or / ou
1 x MR11 GU4 12 V/2 W LED



Design: Tech Group

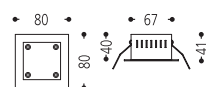


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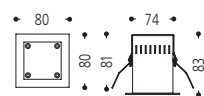


84.279.15-6004
1 x QT9 G4 12 V/max. 20 W
Glas weiß satiniert (eingesetzt) /
white frosted glass (glass
inserted) /
verre blanc satiné (verre inséré)

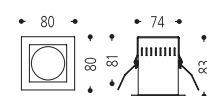
IP44



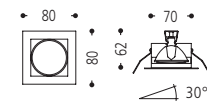
84.280.15-6004
Glas weiß satiniert (eingesetzt) /
white frosted glass (glass
inserted) /
verre blanc satiné (verre inséré)
1 x QT9 G4 12 V/max. 20 W



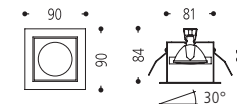
84.282.15-6004
Glas weiß satiniert (eingesetzt) /
white frosted glass (glass
inserted) /
verre blanc satiné (verre inséré)
1 x QR-CBC51 GU5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



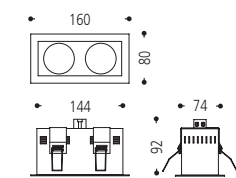
84.282.15
1 x QR-CBC51 GU5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



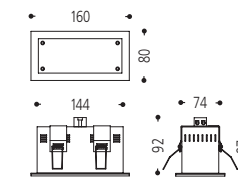
84.285.15
1 x QR-CBC51 GX5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



84.283.15
1 x QR-CBC51 GX5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



84.290.15
2 x QR-CBC51 GX5,3
12 V/max. 50 W
oder / or / ou
2 x MR16 GU5,3 12 V/4 W LED



84.290.15-6020
(ohne Abbildung / without
illustration / sans image)
Glas weiß satiniert (eingesetzt) /
white frosted glass (glass
inserted) /
verre blanc satiné (verre inséré)
2 x QR-CBC51 GX5,3
12 V/max. 50 W
oder / or / ou
2 x MR16 GU5,3 12 V/4 W LED

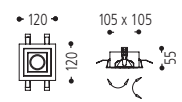
Titansilber / silver / gris argenté



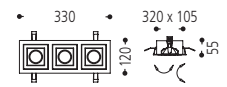
Design: Tech Group

Titansilber / silver / gris argenté

Design: Tech Group



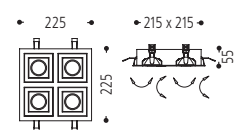
84.241.15
 1 x QR-CBC51 GX5,3
 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED



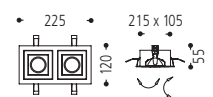
84.243.15
 3 x QR-CBC51 GX5,3
 12 V/max. 35 W
 oder / or / ou
 3 x MR16 GU5,3 12 V/4 W LED

Titansilber / silver / gris argenté
 Design: Tech Group

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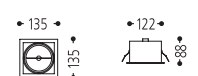


84.245.15
 4 x QR-CBC51 GX5,3 12 V/max. 35 W
 oder / or / ou
 4 x MR16 GU5,3 12 V/4 W LED

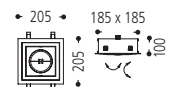


84.242.15
 2 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 2 x MR16 GU5,3 12 V/4 W LED

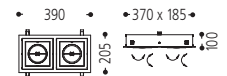
Titansilber / silver / gris argenté
 Design: Tech Group



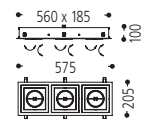
84.260.15
 (ohne Abbildung / without
 illustration / sans image)
 1 x QR-LP111 G53
 12 V/max. 50 W



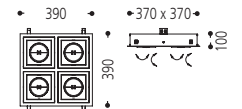
84.261.15
 1 x QR-LP111 G53
 12 V/max. 50 W



84.262.15
 2 x QR-LP111 G53
 12 V/max. 50 W



84.263.15
 3 x QR-LP111 G53
 12 V/max. 50 W

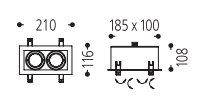


84.265.15
 4 x QR-LP111 G53
 12 V/max. 50 W

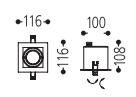
Titansilber / silver / gris argenté
 Design: Tech Group



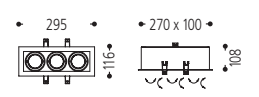
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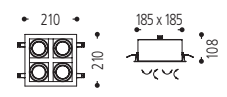
84.232.15
2 x QR-CBC 51 GX5,3
12 V/max. 35 W
oder / or / ou
2 x MR16 GU5,3 12 V/4 W LED



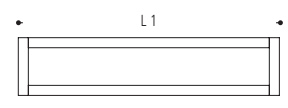
84.231.15
1 x QR-CBC 51 GX5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



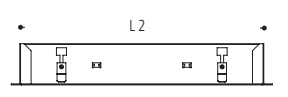
84.233.15
3 x QR-CBC 51 GX5,3
12 V/max. 35 W
oder / or / ou
3 x MR16 GU5,3 12 V/4 W LED



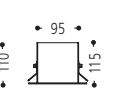
84.234.15
4 x QR-CBC 51 GX5,3
12 V/max. 35 W
oder / or / ou
4 x MR16 GU5,3 12 V/4 W LED



84.705.15 L1 540 L2 520
1 x QR-CBC 51 GU5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



84.710.15 L1 1.040 L2 1.020
2 x QR-CBC 51 GU5,3
12 V/max. 50 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED



84.706.15 L1 540 L2 520
1 x T5 G5 8 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED

84.711.15 L1 1.040 L2 1.020
1 x T5 G5 21 W
oder / or / ou
1 x MR16 GU5,3 12 V/4 W LED

Titansilber / silver / gris argenté

Design: Tech Group

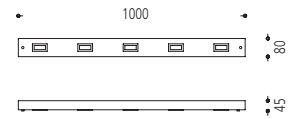
Blende schwarz, mit elektronischem Transformator,
dimmar mit Tronic Dimmer /
cover black, with electronic transformer,
dimable by means of Tronic-Dimmer /
bandeau noir, avec transformateur électronique,
variation de lumière par variateur Tronic

Acrylabdeckung satiniert /
frosted acrylic diffusor /
ecran en verre acrylique satiné



Titansilber / silver / gris argenté

Design: k/h



88.420.69

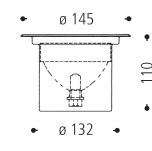


88.421.69



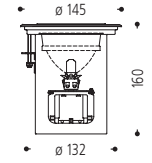
Schwarz, inkl. Schaltnetzteil (lose beigelegt) / black, LED driver included (added as loose part) / noir, incl. convertiseur LED (ajouté comme pièce détachée) incl. 5 x 3 W Line-LED, ca. 3.000 Kelvin

Design: Tech Group



87.104.82

ohne Transformator / without transformer / sans transformateur



87.105.82

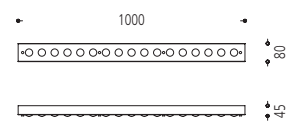
mit Transformator / with transformer / avec transformateur

Edelstahl gebürstet, inkl. Innenreflektor, Temperatur 110°, Druckbelastung bis max. 740 kg / stainless steel dull, with reflector, temperature 110°, pressure load up to 740 kg /

acier mat, avec réflecteur, température 110°, charge de pression jusqu'à 740 kg 1 x QT12 GY6,35 12 V/max. 35 W



Design: Tech Group



88.410.69



88.411.69



Schwarz, inkl. Schaltnetzteil (lose beigelegt) / black, LED driver included (added as loose part) / noir, incl. convertiseur LED (ajouté comme pièce détachée) incl. 17 x 1 W LED, ca. 3.500 Kelvin

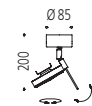
Design: Tech Group



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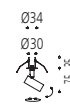
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84.268...
mit elektronischem
Transformator /
with electronic transformer /
avec transformateur électronique
1 x QR-LP 111 G 53
12 V/max. 50 W

Bitte ergänzen Sie die
Artikelnummer mit der Nummer
der Farbe /
please complete the article
number with the colour-code /
pouvez-vous compléter le
numéro d'article avec le code
correspondant à la couleur:
.15 Titansilber / silver /
gris argenté
.54 Dunkel brüniert /
dark bronzed / bronze foncé

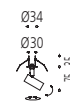
Design: Tech Group



88.363...
zzgl. Schaltnetzteil /
plus LED driver /
convertiseur LED à ajouter
incl. 3 W LED, ca. 3.500 Kelvin

Bitte ergänzen Sie die
Artikelnummer mit der Nummer
der Farbe /
please complete the article
number with the colour-code /
pouvez-vous compléter le
numéro d'article avec le code
correspondant à la couleur:
.14 Chrom / chrome / chrome
.15 Titansilber / silver /
gris argenté
.54 Dunkel brüniert /
dark bronzed / bronze foncé

Design: Tech Group



88.348...
zzgl. Schaltnetzteil /
plus LED driver /
convertiseur LED à ajouter
incl. 3 W LED, ca. 3.500 Kelvin

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der Farbe /
please complete the article
number with the colour-code /
pouvez-vous compléter le
numéro d'article avec le code
correspondant à la couleur:
.14 Chrom / chrome / chrome
.15 Titansilber / silver /
gris argenté
.54 Dunkel brüniert /
dark bronzed / bronze foncé

Design: Tech Group

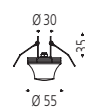




88.221... *
 zzgl. Schaltnetzteil /
 plus LED driver /
 convertiseur LED á ajouter
 incl. 4 W LED, ca. 3.000 Kelvin



88.218...-28.. *
 zzgl. Schaltnetzteil /
 plus LED driver /
 convertiseur LED á ajouter
 incl. 4 W LED, ca. 3.000 Kelvin

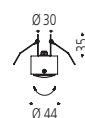


88.222... *
 zzgl. Schaltnetzteil /
 plus LED driver /
 convertiseur LED á ajouter
 incl. 4 W LED, ca. 3.000 Kelvin

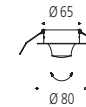


88.218... *
 zzgl. Schaltnetzteil /
 plus LED driver /
 convertiseur LED á ajouter
 incl. 4 W LED, ca. 3.000 Kelvin

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88.220... *
 zzgl. Schaltnetzteil /
 plus LED driver /
 convertiseur LED á ajouter
 incl. 4 W LED, ca. 3.000 Kelvin



84.219...-79.027... *
 zzgl. Schaltnetzteil /
 plus LED driver /
 convertiseur LED á ajouter
 incl. 4 W LED, ca. 3.000 Kelvin

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 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

- .14** Chrom / chrome / chrome
- .15** Titansilber / silver / gris argenté
- .54** Dunkel brüniert / dark bronzed / bronze foncé
- .55** Weiß / white / blanc

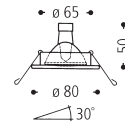
Design: Tech Group

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 à la couleur:

- .14** Chrom / chrome / chrome
- .15** Titansilber / silver / gris argenté
- .54** Dunkel brüniert / dark bronzed / bronze foncé
- .55** Weiß / white / blanc

Design: Tech Group

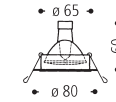




84.139.82
 Edelstahl gebürstet / stainless steel dull / acier mat
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED

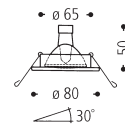


Design: Tech Group

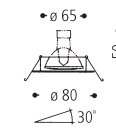


84.116... *
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED

Zubehör / accessories / accessoires
2860
 Glassatz / glass-set / jeu de verre



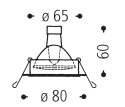
84.119... *
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED



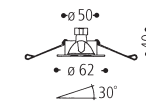
84.219... *
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED



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84.216... *
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED



84.112... *
 1 x QR-CBC 35 GZ4 12 V/max. 35 W
 oder / or / ou
 1 x MR11 GU4 12 V/2 W LED



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 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

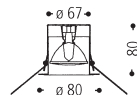
- .01 Messing poliert / brass polished / laiton poli
- .14 Chrom / chrome / chrome
- .55 Weiß / white / blanc

Design: Tech Group

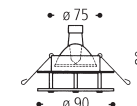
* Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
 please complete the article number with the colour-code /
 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

- .01 Messing poliert / brass polished / laiton poli
- .14 Chrom / chrome / chrome
- .55 Weiß / white / blanc

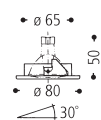
Design: Tech Group



84.010... *
 1 x QR-CBC51 GU5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED



84.115...-429 *
 Glas mattiert / frosted glass / verre dépoli
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED

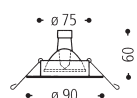


84.129... *
 Reinstaluminium, Haltefedern Edelstahl rostfrei /
 high-purity aluminium, with retaining spring in stainless steel /
 aluminium pur, ressort de fixation en acier inoxydable
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED

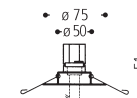


84.100...
 1 x QT9 G4 12 V/max. 20 W

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 der Nummer der Farbe /
 please complete the article number with
 the colour-code /
 pouvez-vous compléter le numéro d'article
 avec le code correspondant à la couleur:
.55 Weiß / white / blanc
.81 Edelstahl blank / stainless steel
 polished / acier poli



84.115... *
 1 x QR-CBC51 GX5,3 12 V/max. 50 W
 oder / or / ou
 1 x MR16 GU5,3 12 V/4 W LED



84.326... *
 ohne VG / without ballast / sans ballast
 1 x TC-S G23 230 V/max. 11 W



* Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
 please complete the article number with the colour-code /
 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

.01 Messing poliert / brass polished / laiton poli
.14 Chrom / chrome / chrome
.55 Weiß / white / blanc

Design: Tech Group


* Bitte ergänzen Sie die Artikelnummer mit der Nummer der Farbe /
 please complete the article number with the colour-code /
 pouvez-vous compléter le numéro d'article avec le code correspondant
 à la couleur:

.01 Messing poliert / brass polished / laiton poli
.14 Chrom / chrome / chrome
.55 Weiß / white / blanc




Design: Tech Group

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INFORMATION


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Transformatoren / transformers / transformateurs

Baulmann-Nr	VA	Primärspannung	Sekundärspannung	Schutzart	Schutzklasse	ENEC / KEMA	VDE 	Sekundärkabelzuführung	Maße (mm)				
Baulmann-No.	VA	Primary voltage	Secondary voltage	Intern. protection	Class of protection	ENEC / KEMA	VDE 	Secondary cable feeding	(ohne Kabelführung)	L	B/W/L	H	Ø
Baulmann-No.	VA	Tension primaire	Tension secondaire	Type de protection	Classe de protection	ENEC / KEMA	VDE 	Câble d'alimentation secondaire	(without cable entry)				(sans introd. de câble)
elektronische Transformatoren / electronic transformers / transformateurs électroniques													
78.072.00	10-60	230 V	11,8 V	IP 20	II	x	x	x	Klemme / terminal / borne	128	38	28	
78.105.00	20-105	230 V	11,8 V	IP 20	II	x	x	x	Klemme / terminal / borne	128	38	28	
78.150.00	75-150	230 V	11,7 V	IP 20	II		x	x	Klemme / terminal / borne	185	37	33	
78.200.00	50-200	230 V	11,7 V	IP 20	II	x	x	x	Klemme / terminal / borne	185	46	38	
Vorschaltgerät für / ballast for / self conventionelle pour													
77.011.00	TC-S 5-11 W	230 V	230 V	IP 00	II		x		Klemme / terminal / borne	85	41	31	
Schaltnetzteile													
77.816.00	0-12 W	12 V	12 V/dc	IP 20	I		x	x	Klemme / terminal / borne	85	40	22	
77.830.00	0-20 W	12 V	12 V/dc	IP 20	I	x	x	x		167	38	29,5	
78.003.00	1-4 W	230 V	350 mA / Sekundärstrom	IP 20	I	x	x		Klemme / terminal / borne	55	39	20	
78.006.00	1-6 W	230 V	350 mA / Sekundärstrom	IP 20	I	x	x		Klemme / terminal / borne	145,5	21	18,5	
78.008.00	1-9 W	230 V	350 mA / Sekundärstrom	IP 20	I	x	x		Klemme / terminal / borne			24	Ø 55
78.019.00	1-18 W	230 V	350 mA / Sekundärstrom	IP 20	I	x	x		Klemme / terminal / borne	173	78	31	
78.019.10	1-18 W	230 V	350 mA / Sekundärstrom	IP 20	I	x	x		Klemme / terminal / borne	360	30	26	
78.103.00	1-4 W	230 V	700 mA / Sekundärstrom	IP 20	I	x	x		Klemme / terminal / borne	55	39	20	
Einputzgehäuse / housing / boîtier à encastrer													
71.771.00	87.111.15									190	120	100	
71.773.00	87.112.82									305	205	80	
71.782.00	84.279.15, 84.280.15, 84.282.15, 84.285.15									190	120	100	
71.784.00	84.281.15									190	120	100	
71.786.00	84.283.15									190	120	100	
71.788.00	84.260.15									290	200	100	
71.790.00	84.290.15									240	200	100	
Eingießgehäuse / housing / embasc à encastrer													
71.772.00	87.111.15									190	120	100	
71.783.00	84.279.15, 84.280.15, 84.282.15, 84.285.15, 88.282.15									190	120	100	
71.785.00	84.281.15									190	120	100	
71.787.00	84.283.15									190	120	100	
71.789.00	84.260.15									240	200	100	
71.791.00	84.290.15									240	200	100	
Eingießtöpfe / housing / embase à sceller													
71.776.00	87.102.82											120	Ø 160
71.777.00	87.105.82											180	Ø 160

**88.430.15**

Aluminiumprofil titansilber mit Abdeckblende, zzgl. Schaltnetzteil, inkl. Flex-LED 12 V/ca. 5 W pro Meter, ca. 3.000 Kelvin / aluminium-profile silver with diffusor, plus LED driver, flex-LED 12 V/approx. 5 W per meter, approx. 3.000 Kelvin included / profil en aluminium argenté avec diffuseur, convertisseur LED à ajouter, incl. flex-LED 12 V/environ 5 W par mètre, environ 3.000 Kelvin

71.911.00

Lüsterklemme mit Klemmhalterung / terminal-block with cord grip / borne de raccordement avec bride de fixation

Bildnachweis / picture credits / crédit photographique

2. Umschlagseite / inner cover / couverture intérieur:

Schlosshotel Elmau, Foto: Schlosshotel Elmau

Seite	Objekt	Foto
page	project	photo
page	projet	photo
1	Hyatt Regency, Köln	Gerrit Meier
1	Radisson Blu Hotel, Köln	Andrea Flak
1	SIDE Hotel, Hamburg	Andrea Flak
1	The George Hotel, Hamburg	Andrea Flak
4	Pressecenter Messe Frankfurt	Messe Frankfurt / Pietro Sutera
4	Hotel am Stadtgarten, Freiburg	Hotel am Stadtgarten
5	The George Hotel, Hamburg	Andrea Flak
6	SAP Conference Center, Walldorf	Häusler GmbH
6	The Romanos, a Luxury Collection resort, Costa Navarino	TEMES S.A.
7	Restaurant Dorade am Main, Frankfurt	Dorade am Main
8/9	Hyatt Regency, Köln	Gerrit Meier
26	Hyatt Regency, Köln	Gerrit Meier
42	Weingut Max Müller I, Volkach	Stefan Meyer
53	Sheraton Hotel, Stockholm	Starwood Hotels & Resorts Worldwide, Inc
70	SIDE Hotel, Hamburg	Andrea Flak
71	Mövenpick Hotel, Berlin	Andrea Flak
72	Oberpollinger, München	Gerd Aumeier
73	Oberpollinger, München	Gerd Aumeier
74	Depot 1899 - Wirtshaus, Frankfurt	Messe Frankfurt
76	The George Hotel, Hamburg	Andrea Flak
79	Atlantic Hotel, Bremen	Atlantic Hotel
81	Cha Cha, positive eating	Andrea Flak
82	InterContinental, Düsseldorf	Jan Kraege
86	Weingut Max Müller I, Volkach	Stefan Meyer
86	Weingut Max Müller I, Volkach	Stefan Meyer
88	SAP Conference-Center, Walldorf	Häussler GmbH
90	Staatsoper Hamburg	Andrea Flak
92	FU Berlin	Stefan Müller
94	Golfclub, CH-Domat-Ems	Andrea Flak
100	Dorint Maison Messmer, Baden-Baden	Andrea Flak
101	SIDE Hotel, Hamburg	Andrea Flak
102	Budersand Hotel - Golf & Spa, Sylt	Jana Ebert
103	Budersand Hotel - Golf & Spa, Sylt	Jana Ebert
104	Dorint Maison Messmer, Baden-Baden	Andrea Flak
105	Radisson Blu Hotel, Köln	Andrea Flak
136	The George Hotel, Hamburg	Andrea Flak
137	Brinkmann, Melle	Andrea Flak
138	FU Berlin	Stefan Müller
139	SIDE Hotel, Hamburg	Andrea Flak
140	SIDE Hotel, Hamburg	Andrea Flak
141	Cha Cha, positive eating	Andrea Flak

Oberflächen-Behandlung / Surface treatment / Traitement de surface











Die 6. und 7. Ziffer des Nummernblocks geben die nachstehend aufgeführte Oberfläche an /

The 6th and 7th numeral of the numeration indicates the surface treatment /

Les 6ème et 7ème chiffres de la numération vous indiquent le traitement de surface des luminaires

.01	Messing poliert / brass polished / laiton poli
.03	Messing matt / brass dull / laiton mat
.09	Rostbraun / rust / rouille
.13	Chrom matt / chrome dull / chrome mat
.14	Chrom / chrome / chrome
.15	Titansilber / silver / gris argenté
.30	Nickel blank / nickel polished / nickel poli
.33	Nickel matt / nickel dull / nickel mat
.34	Nickel blank/Holz craquelé / nickel polished/cracked wood / nickel poli/bois craquelé
.40	Nickel blank/Esche tiefbraun / nickel polished/ ash wood deep brown / nickel poli/bois de frêne bistre
.48	Messing poliert/Kirsche / brass polished/cherry wood / laiton poli/cerisier
.50	Rubinrot / red / rouge
.54	Dunkel brüniert / dark bronzed / bronze foncé
.55	Weiß / white / blanc
.69	Schwarz / black / noir
.81	Edelstahl blank / stainless steel polished / acier poli
.82	Edelstahl gebürstet / stainless steel dull / acier mat

Zeichenerklärung / legend / légende

	Vorschaltgerät / ballast / self conventionelle
	EVG nicht dimmbar / electronic ballast, not dimmable / self conventionelle électronique, non graduable
	EVG dimmbar 1-10 Volt / electronic ballast included, dimmable 1-10 Volt / self conventionelle électronique, graduable 1-10 Volt
	Schutzart IP 20 / protection rating IP 20 / type de protection IP 20
	Schutzart IP 40 / protection rating IP 40 / type de protection IP 40
	Schutzart IP 44 / protection rating IP 44 / type de protection IP 44
	Schutzart IP 55 / protection rating IP 55 / type de protection IP 55
	Rostfrei / stainless / inoxydable
	Leuchten, geeignet zur Montage auf normal entflammaren Flächen / luminaires suitable for mounting on normally inflammable surfaces / luminaire adapté pour le montage sur des surfaces normalement inflammables
	Leuchten, geeignet zum Ein- oder Anbau an Einrichtungsgegenstände, die in ihrem Brandverhalten nicht bekannt sind / luminaires for direct installation in or on fixtures such as furniture items whose combustion characteristics are unknown / appareils d'éclairage pour l'installation directe dans ou sur du mobilier dont les caractéristiques de combustion sont inconnues

Allgemeine Hinweise

Es gelten unsere Verkaufs-, Lieferungs- und Zahlungsbedingungen. Alle Leuchten sind nach EN 60598 gefertigt. Alle Abmessungen sind in mm angegeben. Farb-, Form-, Maßänderungen und Modellverbesserungen, die dem Fortschritt dienen, behalten wir uns vor. Bei jedem Modell sind die Farben festgelegt. Farbsonderwünsche können berücksichtigt werden, bedingen aber einen Aufpreis von mindestens 20 % auf den Listenpreis und eine längere Lieferzeit. Nur Leuchtmittel mit den ordnungsgemäßen elektrischen Daten (Sockel, Spannung, Watt) einsetzen. Bei der Auftragserteilung sollten diese gleich mitbestellt werden, um die Gewähr zu haben, dass auch tatsächlich die richtige Lampe eingesetzt wird. Die Lampenübersicht mit Bestellnummern finden Sie auf den Seiten 174/175.

Sonderanfertigungen

Neben der Herstellung unseres bewährten Leuchtenprogrammes sind wir in der Lage, Sonderanfertigungen nach Ihren Wünschen vorzunehmen. Diese Sonderanfertigungen beinhalten nicht nur die Abwandlung der in diesem Katalog abgebildeten Leuchten, sondern auch die Fertigung von Beleuchtungskörpern nach entsprechenden Zeichnungen. In diesem Falle bitten wir um Übersendung Ihrer spezifizierten Anfrage.

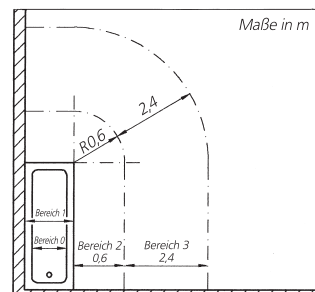
Sicherheitshinweise gemäß DIN VDE 0100 Teil 701

An Räumen mit Badewanne oder Dusche werden besondere Anforderungen gestellt, die in der DIN VDE 0100 Teil 701 definiert sind. Halogen-Niedervolt-Leuchten können im Bereich 1 platziert werden, wenn sich der Transformator außerhalb des Bereiches 1 befindet.

Für unsere empfohlenen Leuchten am Waschtisch gelten keine besonderen Vorschriften. Es sind jedoch die definierten Abstände zur Dusche oder Badewanne einzuhalten.

Bereich / Area / Zone

Maße in m / Dimensions in m (comma = decimal point) / Dimension in m



Beispiel der Bereichseinteilung bei Räumen mit Badewanne /
Example of application of standard for rooms with bathtub /
Exemple de la division des zones pour des pièces avec baignoire.

General remarks

Our terms and conditions apply. All luminaires are manufactured according to the EN 60598. All dimensions are stated in millimetre. We reserve the right of colour, form and dimensional modifications and improvements to further progress. The colours of each model are fixed. Special colours may be possible but there would be a minimum price premium of 20 % together with an extended delivery time. Only use lamps to correct electrical specification (i.e. voltage, holder, wattage). To ensure best performance and full warranty cover, we recommend that light sources are ordered with the luminaires. A survey on the lamps with article numbers is given on page 174/175.

Special fabrications

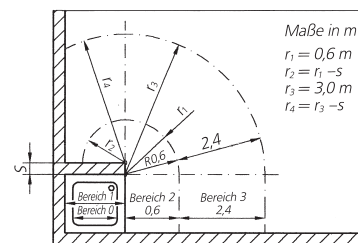
Beside the manufacture of our lighting collection we are able to produce special fabrications on your desire. These special fabrications do not only concern the modification of lighting fittings in our catalog, but also the fabrication of lighting fittings correspondent to submitted illustrations. In case of this we ask to give us your specified inquiry.

Safety regulations according to DIN VDE 0100 part 701

Particular demands are made on rooms with bathtub and shower, which are specified in DIN VDE 0100 Part 701.

Halogen low-voltage luminaires can be mounted in the area 1 if the transformer is placed outside the area 1.

For luminaires recommended by us for the wash stand there are no particular regulations, however, the specified distances from the shower and the bathtub should be observed.



Beispiel der Bereichseinteilung bei Räumen mit Duschwanne und fester Trennwand /
Example of application of standard for rooms with shower tray and solid separation wall /
Exemple de la division des zones pour des pièces avec cuve à douche et cloison.

Remarques générales

Nos conditions de vente, de livraison et de paiement sont applicables. Tous les luminaires sont fabriqués selon la norme EN 60598. Toutes les dimensions sont indiquées en mm. Nous nous réservons le droit de changer les formes, les dimensions et les couleurs ainsi que d'améliorer les modèles si nous le considérons opportun. Chaque modèle est disponible dans des couleurs déterminées. Des couleurs hors série sont disponibles contre un supplément d'au moins 20 % sur le prix du catalogue, le délai de livraison est plus long. Nous vous recommandons de les inclure dans votre commande de luminaires pour assurer que vous utilisez une lampe qui convient au modèle choisi. Vous trouvez une liste des lampes avec leurs numéros de commande en page 174/175.

Fabrications spéciales

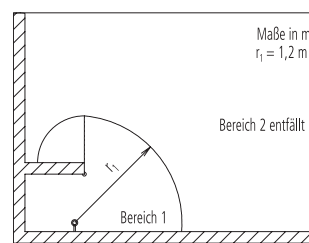
En plus de la fabrication de sérié de notre programme de luminaires, nous sommes à même de faire des fabrications spéciales, suivant vos idées. Des fabrications spéciales ne concernent non seulement la modification des luminaires figurant dans le catalogue, mais encore la fabrication d'appareils d'éclairage, correspondant à des dessins remis. Dans ce cas, nous vous prions de nous envoyer une demande clairement spécifiée.

Mesures de protection selon DIN VDE 0100 part 701

La norme DIN VDE 0100 part 701 décrit les exigences spéciales aux locaux avec baignoire ou douche.

Des luminaires à halogène basse tension peuvent être placés dans la zone 1, si le transformateur se trouve hors de la zone 1.

Il n'y a pas de prescriptions spéciales pour les luminaires que nous recommandons pour la table de toilette, il faut cependant observer les distances prescrites à la douche ou à la baignoire.



Beispiel der Bereichseinteilung bei Räumen mit Dusche ohne Wanne und fester Trennwand /
Example of the arrangement of areas for rooms with shower trail without bathtub and solid partition wall /
Exemple de la division des zones pour des pièces avec douche sans baignoire et cloison de séparation.

Wärmeentwicklung

Wegen der hohen Wärmeabstrahlung von Halogen-Niedervolt-Leuchten ist ein minimaler Sicherheitsabstand von 500 mm zwischen Leuchte und angeleuchtetem brennbaren Material einzuhalten. Speziell bei Reflektorlampen sind auch größere Sicherheitsabstände erforderlich. Dies gilt auch für Akzent-Leuchten mit Kaltlichtreflektor.

Ebenfalls ist für eine genügende Wärmeabfuhr an der Leuchte selbst zu sorgen. Kaltlichtlampen geben ungefähr 2/3 der Wärme nach hinten ab. Grundsätzlich gilt, Einbauleuchten nur in solche Decken einzubauen, in der die maximale Umgebungstemperatur 40 °C nicht übersteigen kann, ein allseitiger Freiraum von mindestens 50 mm muss vorhanden sein, der Freiraum nach oben ist leuchtenspezifisch. Im Hohlraum einer abgehängten Decke muss deshalb eine natürliche Luftzirkulation stattfinden können. Ist dies nicht gewährleistet, muss eine Zwangsbelüftung mit entsprechender Leistung installiert werden.

Montage und Installationshinweise

Installationen müssen gemäß DIN VDE 0100/IEC 364 ausgeführt werden. Der Anordnung und Dimensionierung der Installation kommt bei der Niedervolt-Halogen-Beleuchtung besondere Bedeutung zu. Neben der Berücksichtigung des Spannungsabfalles müssen die Lampenzuleitungen, wie jeder andere Leiter in Hausinstallationen, so bemessen und gegen Überstrom geschützt sein, dass sie bei ordnungsgemäßem Ansprechen der Überstromunterbrecher keine schädliche Erwärmung verursachen. Um Spannungsabfälle gering zu halten und große Leiterquerschnitte zu vermeiden, sollte der für den Betrieb von Niedervolt-Anlagen notwendige Sicherheitstransformator möglichst nahe beim Verbraucher installiert werden. Verbindungs-, Klemm- und Übergangstellen sind möglichst niederohmig auszuführen.

Die aktuellen Lichtverteilungskurven entnehmen Sie bitte unserer Internetseite.

Bitte beachten Sie weitere Sicherheits-, Montage- und Installationshinweise auf unserer Internetseite.

Heat development

Due to the important radiation of heat by halogen low-voltage luminaires a minimum clearance distance of 500 mm between luminaire and flood-lighted combustible material should be observed. For reflector lamps in particular even larger clearance distances are required. This also applies to Akzent luminaires with cold-light reflectors.

Furthermore, on the luminaire itself, care should be taken for sufficient heat dissipation. Cold-light lamps dissipate approximately 2/3 of the heat to the rear.

It is a general principle to build in built-in luminaires only in such ceilings in which the maximum ambient temperature cannot exceed 40 °C and a polydirectional clearance of minimum 50 mm should exist. The clearance above is specific to each luminaire.

In the hollow space of a suspended ceiling a natural air circulation should exist. If this is not guaranteed, then suitable forced air circulation should be installed.

Mounting and installation instructions

Installations should be carried out according to DIN VDE 0100/IEC 364. The arrangement and dimensioning of the installation plays a significant role in low-voltage halogen lighting. Apart from the consideration of voltage drop, the live cables, like any other conductor in domestic installations, should be dimensioned and protected against overcurrent in such a way that for a proper response of the verload protection they do not cause detrimental heating.

In order to keep the voltage drop low and to avoid large conductor cross sections the safety transformer required for the operation of low-voltage installations should be installed as near as possible to the luminaire.

For the updated light-distribution curves please refer to our website.

Please note further safety regulations, mounting and installation instructions on our website.

Dégagement de chaleur

A cause du haut dégagement de chaleur de lampes à halogène basse tension, il faut observer une distance minimale de sécurité de 500 mm entre le luminaire et du matériel combustible qui est éclairé. Des distance de sécurité encore supérieures sont nécessaires dans le cas de lampes avec réflecteur ou pour des luminaires d'accent avec réflecteur à lumière froide.

En plus, il faut garantir une dissipation de chaleur suffisante au luminaire. Des lampes à lumière froide dégagent environ 2/3 de la chaleur en arrière.

Généralement, il ne faut utiliser des luminaires à encastrer que dans des plafonds dans lesquels la température ambiante maximale ne dépasse pas 40 °C, il faut laisser une zone de dégagement d'au moins 50 mm de tous côtés, la zone de dégagement nécessaire vers le haut dépend du luminaire.

Il faut donc qu'il y ait une circulation d'air naturelle dans l'espace creux de plafonds baissés. Si cela n'est pas le cas, une ventilation artificielle avec une puissance correspondante doit être installée.

Instructions de montage et d'installation

Les installations doivent être exécutées selon les directives DIN VDE 0100 et selon CE 364. La position et le dimensionnement ont une importance particulièrement grande lors de l'installation d'un éclairage halogène basse tension. Il faut prendre en considération la chute de tension; et les conducteurs d'alimentation des lampes, comme tous les autres conducteurs de l'installation de la maison, doivent être dimensionnés et protégés contre le courant de surcharge de manière qu'il ne causent pas d'échauffement dangereux quand le disjoncteur à maximum fonctionne normalement.

Pour maintenir basses les chutes de tension et pour éviter de grands sections de câbles, le transformateur de sécurité nécessaire pour le fonctionnement d'installations bas voltages doit être placé aussi près que possible de l'utilisateur. Les points de connexion, de raccord et de passage doivent être exécutés avec une impédance aussi basse que possible.

Pour les courbes de distribution mises à jour, veuillez-vous référer à notre page d'accueil.

Vous trouverez plus d'information concernant les régulations en terme de sécurité ainsi que les instructions de montage et d'installation sur notre page d'accueil.


Lampenübersicht / lamps: summary table / tableau générale des ampoules

Baulmann-Nr	Symbol	Beschreibung	Bezeichnung	Socket	Spannung	Leistung	Lichtstrom	Ausstrahlungswinkel	Mittlere Lebensdauer
Baulmann-No.	Symbol	Description	Designation	Base	Voltage	Power rating	Luminous flux	Radiation angle	Mean service life
Baulmann-No.	Symbole	Description	Désignation	Douille	Voltage	Puissance	Courant lumière	Angle du rayonnement	Durée de vie moyenne de l'ampoule
					(V)	(W)	(lm)	(h)	
73.445.40 73.445.60		Allgebrauchslampe / standard lamp / lampe standard	D 45 D 45	E14 E14	230 230	40 60	400 660	- -	1000 1000
73.435.40 73.435.60 73.528.25		Allgebrauchslampe / standard lamp / lampe standard	C 35 C 35	E14 E14	230 230	40 60 25	400 660 230	- - -	1000 1000
73.014.07 73.014.11		Energiesparlampe / energy-saving lamp / lampe économique	TC-HSE TC-HSE	E14 E14	230 230	7 11	340 600	- -	10000 10000
73.560.60		Allgebrauchslampe / standard lamp / lampe standard	A 60	E27	230	60	710	-	1000
73.580.40 73.580.60		Allgebrauchslampe / standard lamp / lampe standard	G 80 G 80	E27 E27	230 230	40 60	390 600	- -	2000 2000
72.000.54 72.000.42		Halogen-Glühlampe / Halogen incandescent lamp / Lampe halogène	A 55 A 55	E27 E27	230 230	53 42	850 630	- -	2000 2000
73.027.11 73.027.15 73.027.18 73.027.20		Energiesparlampe / energy-saving lamp / lampe économique	TC-HSE TC-HSE TC-HSE TC-HSE	E27 E27 E27 E27	230 230 230 230	11 15 18 20	600 825 1050 1200	- - - -	10000 10000 10000 10000
73.532.60		Allgebrauchslampe / standard lamp / lampe standard	T 32	E27	230	60	840	-	2000
76.000.50 76.000.51		Reflektorlampe / Reflector lamp / Lampe à réflecteur	PAR 20 PAR 20	E27 E27	230 230	50 50	3870 cd 1170 cd	10° 25°	2500 2500
73.227.20		Energiespar-Reflektorlampe / energy-saving Reflector lamp / lampe à réflecteur économique	PAR 38	E27	230	20	800	-	8000
71.000.05 71.000.10 71.000.21		Halogen-Niedervolt-Glühlampe 12 Volt / Low-voltage halogen incandescent lamp 12 Volt / Lampe à halogène basse tension 12 Volt	QT 9 QT 9 QT 9	G 4 G 4 G 4	12 12 12	5 10 20	55 140 320	- - -	4000 2000 2000
71.000.35 71.000.50 71.000.62 71.001.00		Halogen-Niedervolt-Glühlampe 12 Volt / Low-voltage halogen incandescent lamp 12 Volt / Lampe à halogène basse tension 12 Volt	QT 12 QT 12 QT 12 QT 12	GY 6,35 GY 6,35 GY 6,35 GY 6,35	12 12 12 12	35 50 20 90	600 910 290 1800	- - - -	2000 2000 4000 4000
71.005.05 71.005.10 71.005.30		Halogen-Reflektorlampe / Halogen lamp with reflector / Lampe à halogène avec réflecteur	QR 111 QR 111 QR 111	G 53 G 53 G 53	12 12 12	50 50 50	40000 cd 33000 cd 4000 cd	4° 6° 24°	2000 4000 2000
71.007.21 71.007.36 71.007.50 71.007.51		Halogen-Niedervolt-Glühlampe 12 Volt Coolfit / incandescent lamp 12 volt Coolfit / Lampe à halogène basse tension 12 Volt Coolfit	QR-C 51 QR-C 51 QR-C 51 QR-C 51	GU 5,3 GU 5,3 GU 5,3 GU 5,3	12 12 12 12	20 35 50 50	510 cd 1100 cd 3600 cd 1800 cd	36° 36° 24° 36°	2000 2000 3000 2000
71.008.20 71.008.21 71.008.35 71.008.36 71.008.50 71.008.51 71.008.52 71.008.53		Halogen-Niedervolt-Glühlampe 12 Volt mit Kaltlicht-Reflektor und Frontscheibe / incandescent lamp 12 volt with cold-light reflector and protective lens / Lampe à halogène basse tension 12 Volt avec réflecteur dichroïque avec lentille protectrice	QR-CBC 51 QR-CBC 51 QR-CBC 51 QR-CBC 51 QR-CBC 51 QR-CBC 51 QR-CBC 51 QR-CBC 51	GU 5,3 GU 5,3 GU 5,3 GU 5,3 GU 5,3 GU 5,3 GU 5,3 GU 5,3	12 12 12 12 12 12 12 12	20 20 35 35 50 50 50 50	3000 cd 480 cd 6200 cd 1000 cd 9000 cd 4400 cd 1450 cd 900 cd	10° 36° 10° 36° 10° 24° 36° 60°	2000 2000 3000 3000 4000 4000 3000 4000
71.009.22 71.009.23		Coolbeam	QR-CBC 35 QR-CBC 35	GU 4 GU 4	12 12	20 20	2500 cd 700 cd	10° 38°	2000 5000
72.000.35		Halogen-Glühlampe / Halogen incandescent lamp / Lampe halogène	QPAR-CB 16	GU 10	230	35	570 cd	35°	2000

Baulmann-Nr	Symbol	Beschreibung	Bezeichnung	Socket	Spannung	Leistung	Lichtstrom	Ausstrahlungswinkel	Mittlere Lebensdauer
Baulmann-No.	Symbol	Description	Designation	Base	Voltage	Power rating	Luminous flux	Radiation angle	Mean service life
Baulmann-No.	Symbole	Description	Désignation	Douille	Voltage	Puissance	Courant lumière	Angle du rayonnement	Durée de vie moyenne de l'ampoule
					(V)	(W)	(lm)	(h)	
79.022.02 79.022.04		LED 3200 Kelvin LED 3000 Kelvin	MR 11 MR 16	GU 4 GU 5,3	12 12	2 3	100 160	38° 60°	25000 40000
79.023.04		LED 2800 Kelvin	MR 16	GU 10	230	3	160	25°	40000
79.025.04 79.026.04		LED 2800 Kelvin LED 4000 Kelvin	MR 16 MR 16	GU 5,3 GU 5,3	12 12	4 4	650 cd 650 cd	24° 24°	25000 25000
79.023.05 79.024.05		LED 2800 Kelvin LED 4000 Kelvin	PAR 16 PAR 16	GU 10 GU 10	230 230	5 5	320 cd 320 cd	40° 40°	25000 25000
75.001.25 75.001.40 75.001.60 75.001.75		Halogen-Glühlampe 230 Volt / Halogen incandescent lamp 230 volt / Lampe halogène 230 Volt	QT 14 QT 14 QT 14 QT 14	G 9 G 9 G 9 G 9	230 230 230 230	25 40 60 75	260 460 790 1050	- - - -	2000 2000 2000 2000
74.003.09 74.003.11 74.004.05 74.004.07 74.004.09 74.004.11		Kompakt-Leuchtstofflampe / Compact fluorescent lamp / Lampe fluorescente compacte	TC-SEL TC-SEL TC-S TC-S TC-S TC-S	2 G 7 2 G 7 G 23 G 23 G 23 G 23	230 230 230 230 230 230	9 11 5 7 9 11	600 900 250 400 600 900	- - - - - -	10000 10000 8000 8000 8000 8000
74.003.13 74.003.18 74.003.26 74.003.27 74.004.10 74.004.13 74.004.18 74.004.26		Kompakt-Leuchtstofflampe / Compact fluorescent lamp / Lampe fluorescente compacte	TC-DEL TC-DEL TC-DEL TC-TEL TC-D TC-D TC-D TC-D	G 24q-1 G 24q-2 G 24q-3 GX 24q-3 G 24d-1 G 24d-1 G 24d-2 G 24d-3	230 230 230 230 230 230 230 230	13 18 26 26 10 13 18 26	900 1200 2600 1800 600 900 1200 1800	- - - - - - - -	10000 10000 10000 10000 8000 8000 8000 10000
74.007.24 74.007.36 74.007.55 74.017.18 74.017.30		Kompakt-Leuchtstofflampe / Compact fluorescent lamp / Lampe fluorescente compacte	TC-L TC-L TC-L TC-DDSE TC-DDSE	2 G 11 2 G 11 2 G 11 GRZ 10d GRZ 10t	230 230 230 230 230	24 36 55 18 30	1850 2900 4800 1150 2050	- - - - -	10000 10000 10000 10000 10000
74.005.08 74.005.13 74.005.14 74.005.21 74.005.24 74.005.28 74.005.35 74.005.39 74.005.54 74.008.15 74.008.16 74.008.18 74.008.30 74.008.36 74.008.38 74.008.58		Leuchtstofflampe / Fluorescent lamp / Lampe fluorescente	T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 8 T 8 T 8 T 8 T 8 T 8 T 8	G 5 G 5 G 5 G 5 G 5 G 5 G 5 G 5 G 5 G 13 G 13 G 13 G 13 G 13 G 13 G 13	230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230	8 13 14 21 24 28 35 39 54 15 16 18 30 36 38 58	470 1000 1350 1900 1750 2900 3300 3100 4450 900 1100 1350 2200 3350 3350 5200	- - - - - - - - - - - - - - - -	10000 8000 20000 8000 24000 20000 8000 24000 13000 8000 8000 8000 8000 20000 20000 8000
74.016.22 74.016.40 74.016.55		Leuchtstofflampe / Fluorescent lamp / Lampe fluorescente	T-R5 T-R5 T-R5	2 GX 13 2 GX 13 2 GX 13	230 230 230	22 40 55	1800 3300 4200	- - -	12000 8000 12000
73.100.35 73.100.60 73.101.20		Linienlampe opal / Opal strip lamp / Lampe fluorescente opale	L-DE L-DE L-DE	S 14s S 14s S 14s	230 230 230	35 60 120	270 420 840	- - -	1000 1000 1000
79.100.06		LED	L-DE	S 14s	230	6	270	-	12000
73.200.35 73.200.60		Linienlampe klar / Clear strip lamp / Lampe fluorescente transparent	L-DE L-DE	S 14s S 14s	230 230	35 60	300 460	- -	1000 1000
73.201.20		Linienlampe klar / Clear strip lamp / Lampe fluorescente transparent	L-DE	S 14s	230	120	920	-	1000
74.009.11 74.009.13		Mini-Leuchtstofflampe / Mini fluo-rescent lamp / Mini-Lampe fluorescente	T 2 T 2	W 4,3 W 4,3	230 230	11 13	750 930	- -	8000 8000

Inhalt / Index / Contenu

13.108.15	44	23.130.14	30	33.653.15	84/87	63.166.14	130	64.082.01	66	64.363.54	21	65.444.81	117	71.701.82	62	84.139.82	164	86.345.55	145
13.109.15	44	23.131.30	36	33.654.15	84/87	63.185.14	130	64.082.14	66	64.364.14	21	65.445.81	117	71.702.82	62	84.216.01	164	86.347.81	142
13.129.09	30	23.132.82	28	33.657.15	87	63.185.33	46	64.153.30	14	64.364.15	21	65.452.81	117	71.703.82	62	84.216.14	164	86.348.81	142
13.129.14	30	23.145.09	50	33.665.15	75	63.288.34	40	64.153.55	14	64.364.54	21	65.453.81	117	83.301.14	132	84.216.55	164	86.349.81	142
13.145.09	50	23.148.09	50	33.667.15	75	63.300.55	54	64.153.69	14	64.400.14	26	65.457.82	128	83.303.14	132	84.219.01	165	86.350.81	145
13.146.09	50	23.152.33	32	33.675.15	75	63.301.30	54/56	64.154.30	14	64.420.14	26	65.458.82	128	83.330.81	132	84.219.14	163/165	86.352.81	145
13.147.09	50	23.153.33	32	33.677.15	75	63.310.15	44	64.154.55	14	64.825.14	131	65.459.82	128	83.333.81	132	84.219.15	163	86.353.81	142/145
13.148.09	50	23.154.82	34	33.905.15	77/78	63.311.30	54	64.154.69	14	64.826.14	131	65.461.82	128	83.336.81	132	84.219.54	163	86.354.55	145
13.150.33	32	23.156.69	28	34.123.15	65	63.312.30	54	64.155.30	24	64.830.55	88	65.462.82	128	83.339.81	132	84.219.55	163/165	86.355.55	145
13.152.33	32	23.185.33	46	34.125.15	65	63.313.30	54	64.158.30	16	64.831.55	56/59/63	65.463.82	128	83.342.54	60	84.231.15	156	86.357.81	142
13.153.33	32	23.208.15	43	34.126.69	65	63.315.30	36	64.158.54	16	64.832.55	59	65.501.01	122	83.343.54	60	84.232.15	156	86.358.81	142
13.154.82	34	23.310.15	44	34.167.33	13	63.316.30	40	64.159.33	10	64.902.40	48	65.501.14	122	83.344.54	60	84.233.15	156	86.359.81	142
13.156.69	28	23.311.30	36	34.168.33	12	63.317.30	40	64.282.82	58	64.908.09	50	65.501.55	122	83.401.14	132	84.234.15	156	87.104.82	158
13.185.33	46	23.315.30	36	34.185.33	46	63.319.30	36	64.285.82	58	64.908.14	48	65.580.14	123	83.403.14	132	84.241.15	155	87.105.82	158
13.186.33	46	23.316.30	40	34.281.14	22	63.320.30	56	64.340.14	19	64.908.48	48	65.581.14	123	83.622.55	88	84.242.15	155	87.111.15	150
13.208.15	43	23.408.30	31	34.281.15	22	63.321.30	56	64.340.15	19	64.924.81	131	65.582.14	123	83.632.55	88	84.243.15	155	87.112.82	150
13.309.15	44	23.409.15	38	34.281.54	22	63.322.30	56	64.340.54	19	64.925.81	131	65.583.14	123	83.641.15	93	84.245.15	155	88.218.14	163
13.310.15	44	24.153.30	14	34.282.14	22	63.409.15	38	64.341.14	19	64.952.30	131	65.584.81	123	83.642.15	93	84.260.15	154	88.218.15	163
13.311.30	38	24.153.55	14	34.282.15	22	63.901.40	48	64.341.15	19	64.962.30	131	65.600.01	122	83.643.15	93	84.261.15	154	88.218.54	163
13.312.30	38	24.153.69	14	34.282.54	22	63.960.82	62	64.341.54	19	65.099.14	113	65.600.14	122	83.644.15	93	84.262.15	154	88.218.55	163
13.313.30	38	24.154.30	14	34.284.14	22	63.961.82	62	64.346.69	18	65.142.81	117	65.600.55	122	83.646.55	84	84.263.15	154	88.220.14	162
13.314.30	38	24.155.30	24	34.284.15	22	63.963.82	62	64.347.14	18	65.143.81	117	65.601.01	122	83.647.55	84	84.265.15	154	88.220.15	162
13.315.30	38	24.156.33	10	34.284.54	22	63.964.82	62	64.347.15	18	65.144.81	117	65.601.14	122	83.648.55	84	84.268.15	161	88.220.54	162
13.316.30	40	24.157.33	10	34.286.14	22	63.966.82	62	64.347.54	18	65.145.81	117	65.601.55	122	83.651.15	93	84.268.54	161	88.220.55	162
13.317.30	40	24.159.30	24	34.286.15	22	63.967.82	62	64.348.14	21	65.239.81	124	65.603.81	16/121	83.652.15	93	84.279.15	152	88.221.14	162
13.408.30	31	24.306.30	31	34.286.54	22	63.978.82	63	64.348.15	21	65.269.81	121	65.603.82	121	83.653.15	93	84.280.15	152	88.221.15	162
13.409.15	38	24.400.14	26	34.545.15	97	63.979.82	63	64.348.54	21	65.270.81	121	65.604.81	16/121	83.654.15	93	84.281.15	150	88.221.54	162
14.154.30	14	24.604.30	16	34.560.15	97	63.980.82	63	64.349.14	21	65.272.81	121	65.604.82	121	83.656.55	84	84.282.15	152	88.221.55	162
14.155.30	24	25.111.40	48	34.641.15	93	64.043.01	66	64.349.15	21	65.290.81	128	65.605.81	16/121	83.657.55	84	84.283.15	153	88.222.14	162
14.156.33	10	25.113.40	46	34.642.15	95	64.043.14	66	64.349.54	21	65.295.14	126	65.605.82	121	83.658.55	84	84.285.15	153	88.222.15	162
14.157.33	10	25.140.41	34	34.643.15	93	64.047.30	66	64.350.14	20	65.295.15	126	65.612.00	110	84.010.01	166	84.290.15	153	88.222.54	162
14.158.30	16	25.288.34	40	34.644.15	93	64.052.01	66	64.350.15	20	65.296.14	126	65.617.00	110	84.010.14	166	84.326.01	167	88.222.55	162
14.158.54	16	25.510.40	48	34.649.15	93	64.052.14	66	64.350.54	20	65.296.15	126	65.620.00	108	84.010.55	166	84.326.14	167	88.223.15	150
14.159.30	24	33.208.15	30/43	34.651.15	93	64.053.01	66	64.352.14	20	65.300.14	126	65.621.00	108	84.100.55	167	84.326.55	167	88.348.14	161
14.604.30	16	33.311.30	36	34.652.15	95	64.053.14	66	64.353.14	20	65.300.15	126	65.625.00	108	84.100.81	167	84.530.82	146	88.348.15	161
15.111.40	48	33.558.15	83	34.653.15	93	64.055.30	66	64.354.14	20	65.310.14	124	65.626.00	108	84.112.01	165	84.531.82	146	88.348.54	161
15.113.40	46	33.560.15	96	34.654.15	93	64.056.30	66	64.355.15	149	65.311.14	124	65.627.00	111	84.112.14	165	84.610.15	146/147	88.363.14	161
15.114.40	46	33.568.15	81	34.659.15	93	64.057.30	24	64.355.54	149	65.317.14	126	65.630.14	113	84.112.55	165	84.611.15	146/147	88.363.15	161
15.140.41	34	33.569.15	81	34.660.15	95	64.062.01	66	64.355.81	149	65.346.81	114	65.635.14	113	84.115.01	166/167	84.612.15	146/147	88.363.54	161
15.141.41	34	33.581.81	81	34.661.15	95	64.062.14	66	64.356.15	149	65.347.81	114	65.640.14	113	84.115.14	166/167	84.613.15	146/147	88.410.69	158
15.287.34	40	33.582.81	81	34.908.15	91	64.063.01	66	64.356.54	149	65.372.81	114	65.645.00	111	84.115.55	166/167	84.614.15	146/147	88.411.69	158
15.288.34	40	33.622.15	88	63.101.30	54	64.063.14	66	64.356.81	149	65.373.81	114	65.662.81	119	84.116.01	165	84.615.15	146/147	88.420.69	158
15.510.40	48	33.632.15	88	63.101.33	54	64.064.01	66	64.357.15	148	65.374.81	114	65.663.81	119	84.116.14	165	84.705.15	157	88.421.69	158
16.130.30	53	33.641.15	43/84/87	63.103.30	54	64.064.14	66	64.357.54	148	65.375.81	114	65.664.81	119	84.116.55	165	84.706.15	157		
16.130.50	53	33.642.15	84/87	63.103.33	54	64.065.01	66	64.357.81	148	65.377.81	119	65.677.81	119	84.119.01	164	84.710.15	157		
16.141.30	53	33.643.15	84/87	63.104.30	54	64.065.14	66	64.358.15	149	65.378.81	119	65.678.81	119	84.119.14	164	84.711.15	157		
18.100.33	53	33.644.15	84/87	63.104.33	54	64.066.01	66	64.358.54	149	65.379.81	119	65.679.81	119	84.119.55	164	86.340.81	145		
23.108.15	44	33.647.15	87	63.108.15	44	64.066.14	66	64.358.81	149	65.380.81	119	65.680.81	119	84.129.01	166	86.342.81	145		
23.129.09	30	33.651.15	43/84/87	63.150.33	32	64.072.01	66	64.363.14	21	65.442.81	117	65.715.81	106	84.129.14	166	86.343.81	142/145		
23.129.14	30	33.652.15	84/87	63.154.82	34	64.072.14	66	64.363.15	21	65.443.81	117	65.725.00	106	84.129.55	166	86.344.55	145		


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