

The background features several large, overlapping, curved lines in shades of light gray and white, creating a sense of depth and movement. These lines are positioned in the upper and middle sections of the page, framing the title area.

Chapter 4

Wall and Ceiling Luminaires





Wall Luminaires

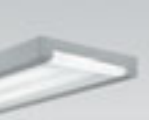





Futurel® 5MS
Page 4.2

Diffuser Luminaires for Ceilings and Walls



Europlex®
Page 4.4

	Wall Luminaires	Diffuser Luminaires for Ceilings and Walls
		
	Futurel® 5MS Page 4.2	Europlex® Page 4.4
Protection Rating	IP20	IP40/IP50
Control Gear ECG LLCG		
Light Source	 TC-L 2G11  T26 G13	2 x 55/80W 18/36/58W
		Enclosure of PMMA



Futurel® 5MS

The surface-mounted wall luminaires of the Futurel® 5MS family unite clear, striking forms with the patented ELDAICON® light control system. This creates a homogenous distribution of light upon the working plane with a high, glare-free direct component. The balanced contrast creates a pleasant atmosphere, and illumination that satisfies current standards for DSE workstations.

The luminaires of the Futurel® 5MS family adapt ideally both technically as well as optically to modern office environments with their light quality and high quality design.

- + Uniform design for whole luminaire family consisting of floorstanding, wall, suspended and surface-mounted luminaires
- + Timeless, slimline design
- + Glare-free direct component via transparent ELDAICON® microprismatic technology
- + Glare value UGR < 16



Housing Technology

Housing of extruded aluminium, metallic grey coated (RAL 9006) | with translucent plastic fringes at both face ends, can be colour accented | (incl. colour-red foils in colours: blue, green, orange, red, mocca | ELDAICON® of PMMA

Electrics

Luminaires wired ready for connection | with 3-pole terminal, max. 2.5 mm² | with ECG | further electrical equipment on request

Lighting Technology

ELDAICON® technology: absolutely glare-free light control with highly precise microprismatic structure

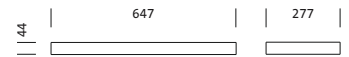
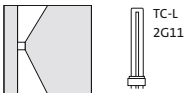
- With ELDAICON®, direct/indirect distribution, CAT(L≤ 1000cd/m²)



Futurel® 5MS | with ELDACON® | direct/indirect distribution

Futurel® 5MS single luminaire for wall mounting | with ELDACON®, direct/indirect distribution CAT(L≤ 1000cd/m²) | with ECG | extruded aluminium housing, metallic grey (RAL 9006); translucent face ends can be colour accented

Protection rating: IP20
 Insulation class: I
 (incl. coloured foils for face ends: blue, green, orange, red, mocca)

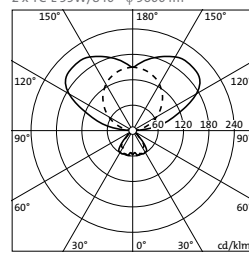


Lamps	Socket	Wt. (kg)	ECG Order No.
metallic grey (RAL9006), direct/indirect distribution			
2xTC-L 55W	2G11	4.1	5MS43672UL0
2xTC-L 80W	2G11	4.1	5MS43677VL0

5MS43672UL0

2 x TC-L 55W/840 φ 9600 lm

η_{lm} 83.8% φ_u 14% φ_o 86%



Luminance values (cd/sq. m)

	----- C 0/180	----- C 90/270
L ₉₀	560	606
L ₇₀	758	643
L ₅₀	448	981



Europlex®

Europlex® diffuser luminaires are suitable for a wide range of applications with their high protection ratings and various lamping possibilities.

Some luminaires even satisfy the stringent conditions for the lighting of nuclear power plants and civil defence buildings. The following light distribution patterns can be achieved with the available enclosures and specular reflectors: wide distribution with ceiling illumination, both symmetrical and asymmetrical.

The flat luminaire housing is constructed with torsionally rigid sheet steel, giving the Europlex® luminaires a high degree of stability even when suspended.

- + For a variety of uses in ancillary and special areas
- + Some luminaires suitable for nuclear power plants and civil defence buildings
- + High-grade diffuser and sealing for protection against dust
- + High inherent stability even with suspended installation
- + Luminaires have same contours for varying lamps
- + With attractive diffusers for an even room illumination and a pleasant ambience
- + Simply mounted with easy fixing of diffuser with twist-lock catches



Europlex® with prismatic enclosure/opal enclosure

Housing Technology

Flat housing of torsionally rigid, formed, sheet steel, coated pure white (similar to RAL 9010), with white, plastic end caps | diffuser of impact resistant, non-yellowing PMMA, cast from one piece and fully recyclable | diffuser fixing with twist lock catches

Electrics

Luminaires wired ready for connection | with 3-pole terminal, max. 2.5 mm² | cable entry for cables with diameter ≤ 10.5 mm (luminaires with narrow housing) or diameter ≤ 12 mm (luminaires with wide housing) | with ECG | through-wiring above luminaire with sheathed cable for continuous row mounting

Lighting Technology

- Prismatic diffuser with outer prisms, direct wide distribution with ceiling illumination
- Opal diffuser, direct wide distribution with ceiling illumination
- Highly specular aluminium reflector, with direct wide distribution
- Highly specular aluminium reflector, with asymmetric distribution

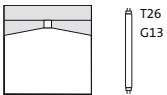
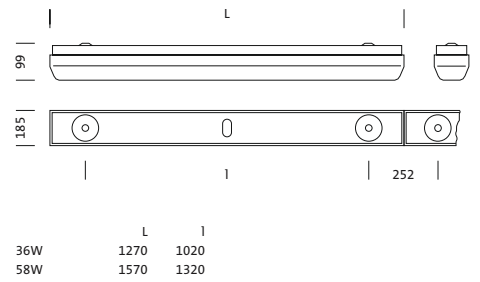




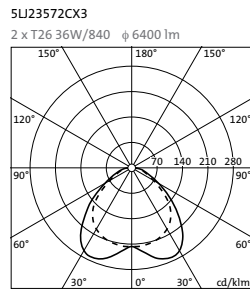
Europlex® with prismatic diffuser | with reflector | direct symmetrical distribution

Europlex® diffuser luminaire for ceiling surface mounting or suspended mounting | with highly specular aluminium reflector, direct wide distribution, with prismatic diffuser (PMMA) | with ECG | sheet steel housing, plastic end caps, pure white (similar to RAL 9010)

Protection rating: IP50
Insulation class: SK I



Lamps	Socket	Wt. (kg)	ECG Order No.
IP50, T26			
1xT26 36W	G13	3.3	5LJ23571CX3
1xT26 58W	G13	3.9	5LJ23571EX3
2xT26 36W	G13	3.5	5LJ23572CX3
2xT26 58W	G13	3.8	5LJ23572EX3

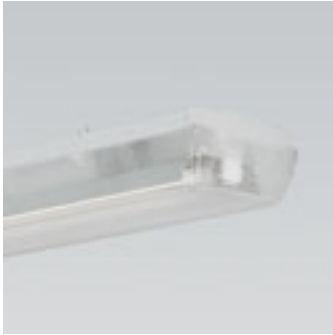


No. of luminaires in room
Reflection factors 70/50/20

Em(lx)	100	200	500
Lh(m)	2.5 3.0 2.5 3.0 2.5 3.0		
20 sq. m	0.7 0.8 1.3 1.5 3.4 3.8		
30 sq. m	1.0 1.1 2.0 2.3 4.9 5.7		
40 sq. m	1.3 1.4 2.6 2.9 6.4 7.1		
50 sq. m	1.5 1.7 3.1 3.4 7.7 8.5		
75 sq. m	2.2 2.4 4.4 4.9 11 12		
100 sq. m	2.9 3.1 5.8 6.2 15 16		
500 sq. m	13 14 27 27 67 69		

Factors of other lamp configurations
1x36W 1.8 1x58W 1.2
2x58W 0.7
Maintenance factor 0.8

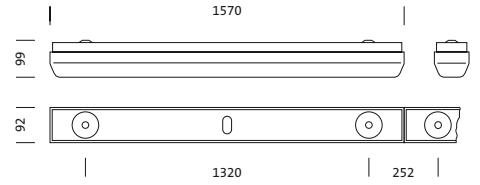
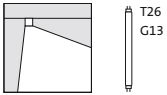




Europlex® with prismatic diffuser | with reflector | direct asymmetrical distribution

Europlex® diffuser luminaire for ceiling surface mounting or suspended mounting | with highly specular aluminium reflector, direct asymmetrical distribution, with prismatic diffuser (PMMA) | with ECG | sheet steel housing, plastic end caps, pure white (similar to RAL 9010)

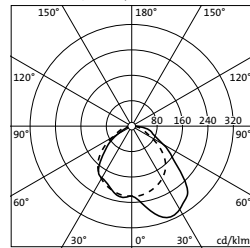
Protection rating: IP50
Insulation class: I



Lamps	Socket	Wt. (kg)	ECG Order No.
IP50, T26 1xT26 58W	G13	4.0	5LJ23571EX4

5LJ23571EX4

1 x T26 58W/840 ϕ 5000 lm η_{LS} 71.6%
 l_{max} 311 cd/klm at γ 25°

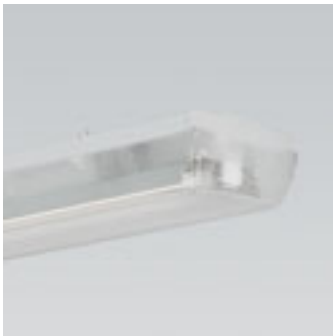


No. of luminaires in room

Reflection factors 70/50/20	Em(lx)					
	100	200	500			
Lh(m)	2.5	3.0	2.5	3.0	2.5	3.0
20 sq. m	0.9	1.0	1.7	2.0	4.3	5.0
30 sq. m	1.3	1.5	2.6	2.9	6.4	7.3
40 sq. m	1.7	1.8	3.3	3.7	8.3	9.2
50 sq. m	2.0	2.2	4.0	4.4	10.0	11
75 sq. m	2.9	3.1	5.8	6.2	14	16
100 sq. m	3.8	4.0	7.5	8.1	19	20
500 sq. m	17	18	34	36	86	89

Maintenance factor 0.8

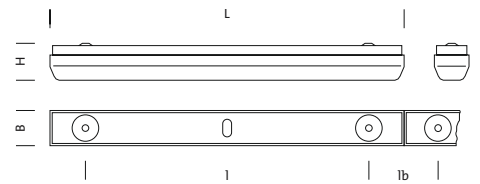




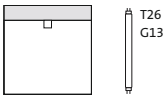
Europlex® with prismatic diffuser | wide distribution with ceiling illumination

Europlex® diffuser luminaire for ceiling surface mounting or suspended mounting | wide distribution with ceiling illumination, with prismatic diffuser (PMMA) | with ECG | sheet steel housing, plastic end caps, pure white (similar to RAL 9010)

Protection rating: IP40 or IP50 (according to variation)
Insulation class: I



	L	l	lb	B	H
1 x 18W	660	475	187	92	99
1 x 36W	1270	1020	252	92	99
1 x 58W	1570	1320	252	92	99
2 x 18W	660	475	187	185	99
2 x 36W	1270	1020	252	185	99
2 x 58W	1570	1320	252	185	99
4 x 18W	670	520	152	670	92

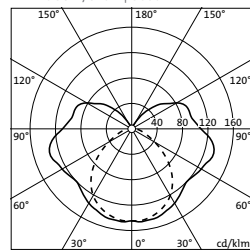


Lamps	Socket	B (mm)	Wt. (kg)	ECG Order No.
IP40, T26				
1xT26 36W	G13	92	2.1	5LJ23971C
1xT26 58W	G13	92	2.5	5LJ23971E
2xT26 36W	G13	185	3.2	5LJ23972C
2xT26 58W	G13	185	3.7	5LJ23972E
IP50, T26				
1xT26 18W	G13	92	1.2	5LJ23571A
1xT26 36W	G13	92	2.1	5LJ23571C
1xT26 36W	G13	185	3.3	5LJ23571CX1
1xT26 58W	G13	92	2.4	5LJ23571E
1xT26 58W	G13	185	3.6	5LJ23571EX1
2xT26 18W	G13	185	1.7	5LJ23572AX1
2xT26 36W	G13	185	3.2	5LJ23572CX1
2xT26 58W	G13	185	3.9	5LJ23572EX1
4xT26 18W	G13	670	4.9	5LJ23574A

5LJ23571E

1 x T26 58W/840 φ 5000 lm

η_{sa} 81.8% φ_s 73% φ_o 27%



Luminance values (cd/sq. m)

	C 0/180	C 90/270
L ₈₀	4973	2196
L ₇₀	4501	2274
L ₆₅	4118	2520

UGR 23.9 17.2
X 4H Y 8H ρ 70/50/20 S 0.25H

No. of luminaires in room

Reflection factors 70/50/20

Em(lx)	100	200	500
Lh(m)	2.5	3.0	2.5
20 sq. m	1.2	1.4	2.5
30 sq. m	1.8	2.1	3.6
40 sq. m	2.3	2.6	4.6
50 sq. m	2.7	3.0	5.5
75 sq. m	3.9	4.3	7.8
100 sq. m	5.0	5.4	9.9
500 sq. m	21	22	43

Factors of other lamp configurations

1x36W	1.5	1x58W	1.0
2x36W	0.8	2x58W	0.6
4x18W	1.0		

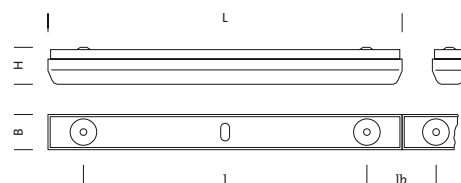
Maintenance factor 0.8



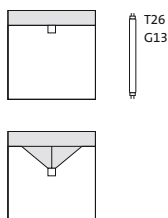
Europlex® with opal diffuser | wide distribution with ceiling illumination

Europlex® diffuser luminaire for ceiling surface mounting or suspended mounting | wide distribution with opal diffuser (PMMA) | with ECG | sheet steel housing, plastic end caps, pure white (similar to RAL 9010)

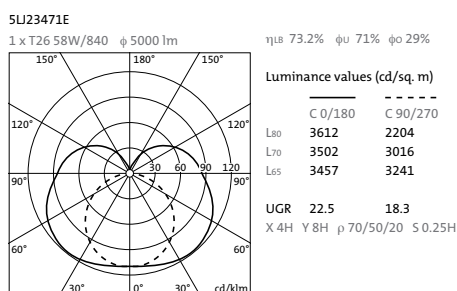
Protection rating: IP40 or IP50 (according to variation)
Insulation class: I



	L	l	lb	B	H
1 x 18W	660	475	187	92	99
1 x 36W	1270	1020	252	92	99
1 x 58W	1570	1320	252	92	99
2 x 18W	660	475	187	185	99
2 x 36W	1270	1020	252	185	99
2 x 58W	1570	1320	252	185	99
4 x 18W	670	520	152	670	92



Lamps	Socket	B (mm)	Wt. (kg)	ECG Order No.
IP40, T26				
1xT26 36W	G13	92	2.1	5LJ23871C
1xT26 58W	G13	92	2.6	5LJ23871E
2xT26 36W	G13	185	3.2	5LJ23872C
2xT26 58W	G13	185	3.9	5LJ23872E
IP50, T26				
1xT26 18W	G13	92	1.2	5LJ23471A
1xT26 36W	G13	92	2.4	5LJ23471C
1xT26 58W	G13	92	2.7	5LJ23471E
2xT26 18W	G13	185	1.8	5LJ23472A
2xT26 36W	G13	185	3.3	5LJ23472C
2xT26 58W	G13	185	4.0	5LJ23472E
4xT26 18W	G13	670	5.0	5LJ23474A



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

Em(x)	100	200	500
Lh(m)	2.5	3.0	2.5
20 sq. m	1.4	1.7	2.8
30 sq. m	2.1	2.4	4.1
40 sq. m	2.6	2.9	5.2
50 sq. m	3.1	3.5	6.2
75 sq. m	4.4	4.9	8.8
100 sq. m	5.6	6.1	11
500 sq. m	24	25	49

Factors of other lamp configurations
1x36W 1.5 2x36W 0.8
2x58W 0.6
Maintenance factor 0.8

Europlex® Spare Parts



Optical enclosure, prismatic
for Europlex 5LJ235... | 5LJ239...
surface-mounted luminaire |
optical enclosure of PMMA with
rounded edge | also suitable for
predecessor variation 5LJ229...

Description	Lamps	Order No.
Optical enclosure	for 1 x T26 18W	5LJ23201AW
Optical enclosure	for 1 x T26 36W *)	5LJ23201CW
Optical enclosure	for 1 x T26 58W *)	5LJ23201EW
Optical enclosure	for 2 x T26 18W	5LJ23202AW
Optical enclosure	for 2 x T26 36W	5LJ23202CW
Optical enclosure	for 2 x T26 58W	5LJ23202EW
Optical enclosure	for 4 x T26 18W	5LJ23204AW

*) for versions with symmetrical or asymmetrical distribution reflector: use 2-lamp optical enclosure

Europlex® Spare Parts

**Optical enclosure, opal**

for Europlex 5LJ234... | 5LJ238...
surface-mounted luminaire |
optical enclosure of PMMA with
rounded edges | also suitable for
predecessor variation 5LJ224... | 228...

Description	Lamps	Order No.
Optical enclosure	for 1 x T26 18W	5LJ23101AW
Optical enclosure	for 1 x T26 36W	5LJ23101CW
Optical enclosure	for 1 x T26 58W	5LJ23101EW
Optical enclosure	for 2 x T26 18W	5LJ23102AW
Optical enclosure	for 2 x T26 36W	5LJ23102CW
Optical enclosure	for 2 x T26 58W	5LJ23102EW
Optical enclosure	for 4 x T26 18W	5LJ23104AW

Europlex® Electrical Accessories

**Supplementary terminal**

for luminaire installation, 2-pole
(L2, L3), max. 2.5 mm²

Description		Order No.
Terminal	2-pole	5LY9114

– for 5-pole luminaire connection or 5-core through-wiring: 1 piece required per luminaire
– Through-wiring with sheathed cable (e.g. NYM) on upper side of luminaire

Europlex® Mounting Accessories

**Universal luminaire suspension**

for wire ($\phi_{\text{inner}} \leq 4.5$ mm)
or chain ($\phi_{\text{inner}} \geq 7.5$ mm)
load capacity: max. 25 kg

Description	Order No.
Universal luminaire suspension, galvanised, partially V ₂ A	5LY9086

**Chain suspension**

With height adjustment incl. white
canopy, suspension bar for ceiling
hook, hook and quick-release link on
luminaire side
load capacity: max. 20 kg

Description	Order No.
Chain suspension	5LY9141

**Chain, galvanised**

Inner link size 8.5 x 41 mm
load capacity: max. 90 kg

Description	Order No.
Chain, galvanised	5LY9055

Chain: per metre

**Mounting set**

for luminaire mounting to
DUS® mounting rail

Description	Order No.
Mounting set	5LY9142

– 2 pieces required per luminaire

**Turnbuckle**

for wire
load capacity: max. 45 kg

Description	Order No.
Turnbuckle	5LY9140