

Zip comfort, quality light for outdoor.





SIMES



Walk-over

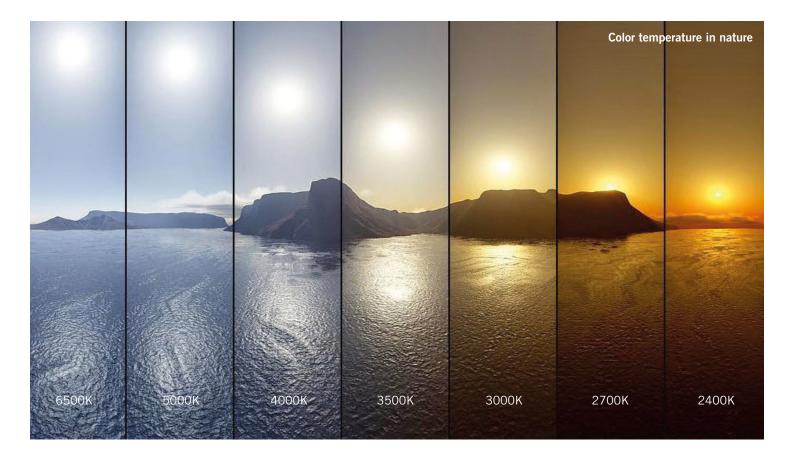
ZIP, the in-ground walk-over family, becomes COMFORT. It has constantly evolved to achive greater and more precise lighting control and high performance in terms of flux and efficiency. ZIP COMFORT is the right answer to the most difficult architectural challenges thanks to the availability of many different combinations.

Two different shapes, round and square.

Four sizes.

Two surface finishing of the ring, stainless steel or black painted aluminum. Four different beam angles, from the soft and diffused effect of the etched glass versions, to the narrow or asymmetrical beam, obtained through modular optical systems of single lenses and cowels, to the wide beam of the optics with reflector and COB LED.





Color Temperature

The selection of the Colour Temperature in a lighting project depends on the characteristics of the surroundings and of the subject to light up.

Nature shows how the color of light constantly changes throughout the day.

The Zip Comfort family offers to the lighting designer a range of useful possibilities to recreate the desired effect. It is available in **three different color temperature variants:**

- 4000K (code N)
- 3000K (code W)
- 2700K (code H)

We must consider that the lumious efficiency is also determined by colour temperature. Warm light has lower efficiency than cold light.

Color Rendering Index

The colour rendering index or CRI is a very important characteristic that needs to be considered as it indicates the ability of a light source to reveal different colours, tones and colour shades of objects in the most realistic and natural fashion. For outdoor lighting applications a CRI of 70 or 80 is often used as it is wrongly assumed that a lower colour rendering index is sufficient for outdoor lighting. Simes believes that our private outdoor spaces are simply an extension of our indoor living areas. These areas therefore require superior colour rendering index levels even at the cost of luminous efficiency. A high colour rendering index (CRI>90) corresponds to a lower luminous efficiency.

All versions of the ZIP COMFORT family are equipped with LED sources with CRI>90.

Visual comfort and adjustable optic

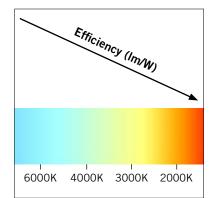
LEDs are light sources with extremely small dimensions and high luminance. If not properly managed, they cause an annoying glare. Though the use of lenses, reflectors and anti glare cowels, the Im/W ratio is marginally sacrified but light is emitted where it is needed and how it is needed, greatly improving visual comfort and cutting the the unwanted portion of light.

Zip comes today with a renewed look thanks to the introduction of the **COMFORT OPTIC:** a sophisticatd optical systems able to considerably reduce glare thanks to the retracted position of the LED.

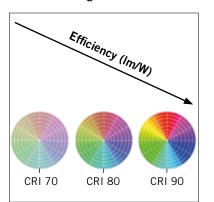
The adjustable optic can direct the light in the required direction modulating the desired luminous effect. The maximum inclination angle is:

+/- 15° in narrow and wide beam versions +/- 5° in asymmetrical beam versions

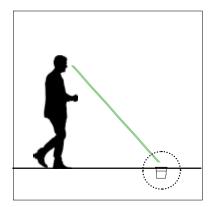
Color Temperature (K)

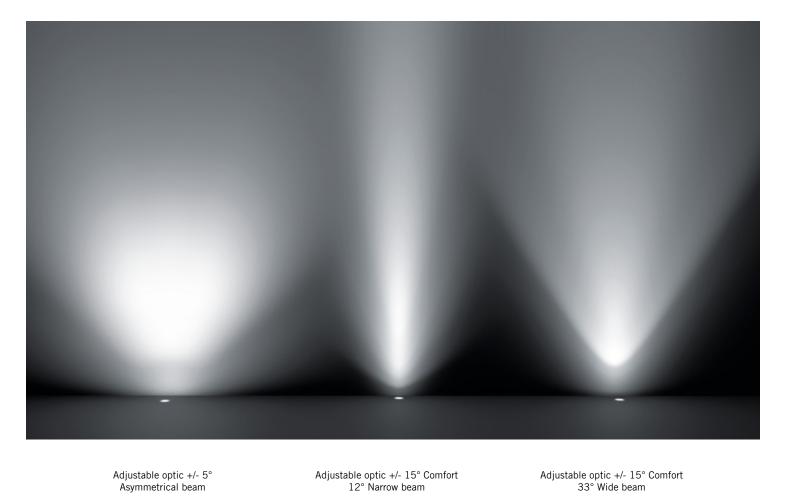


Color Rendering Index (CRI)



Visual comfort



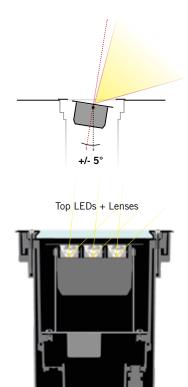


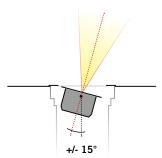
Adjustable optic +/- 5° Asymmetrical beam



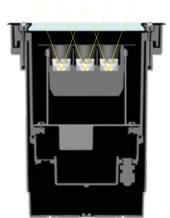
Adjustable optic +/- 15° Comfort 12° Narrow beam

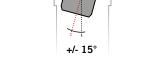




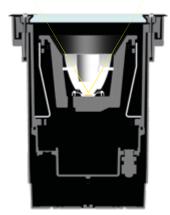


Top LEDs + Lenses + Anti glare cowels





COB LED + 33° Reflector + Collimator + Anti glare cowel





Mazzarelli Creative Resort, Pogliano a Mare Bari, Italy - Arch. Palma Librato

ZIP ROUND COMFORT Walk-over

Die-cast EN AB-44100 aluminium housing with high corrosion resistance. Marine grade stainless steel AISI 316L front trim 2 mm thick or aluminium. Toughened glass diffuser 8mm thick for Microzip, 8mm thick for Microzip, 8mm thick for Minizip, 10mm thick for Zip, 12mm thick for Megazip. Stainless steel screws. Pre-wired luminaire with neoprene cable and connector. Recessing box in polypropylene. Silicone gaskets. **Double powder paint.**

Maximum weight 1000 Kg

Protection class IP65 / IP67

Isolation class CLASS I

Mechanical resistance IK 09

For the latest technical information and luminaire updates with LED technology please refer to www.simes.it



The recessing box must be placed at ground level.

20 cm drainage gravel must be used under the recessing box to allow easy water evacuation.

Connection to the main line has to be done into junction boxes.



4 way connector for through wiring (in/out). Only for Minizip, Zip and Megazip.

Finishing:

Black (code. 09)
Stainless steel (code. 19)

MICROZIP ROUND COMFORT Stainless-steel front trim

SIMES

2.0

1.0

T,

0.1 m

23.0

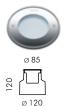
95.0

0(m)

E(lx) 4000K

h(m)

Acid - Etched Glass

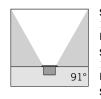


Transparent glass

ø 85

ø 120

120



12°

	S.8814N.19 1 HIGH-POWER LED 4000K CRI90 115lm Rated luminaire luminous flux 21lm	h(m) - 2.5 - 2.0	E(lx) 4000K 0.0 91° 0.0
1°	S.8814W.19 1 HIGH-POWER LED 3000K CRI90 105lm Rated luminaire luminous flux 20lm	0.1 m	0.5 1.0 7.5
	S.8814H.19 1 HIGH-POWER LED 2700K CRI90 100Im Rated luminaire luminous flux 19Im	0.1 11	C O(III)
	Rated input power 2,2W 220V-240V AC 50/60Hz / DC Not Dimmable Led position fixed		
	S.8811N.19 1 HIGH-POWER LED 4000K CRI90 235lm Rated luminaire luminous flux 183lm	h(m) 5.0 4.0 3.0	E(lx) 4000K 2.0 12° 3.5 7.0
	S.8811W.19	1 0.0	7.0

S.8811W.19 1 HIGH-POWER LED 3000K CRI90 215Im Rated luminaire luminous flux 168lm S.8811H.19

1 HIGH-POWER LED 2700K CRI90 205Im Rated luminaire luminous flux 160lm

Rated input power 3,6W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics Beam lenses available on request with no surcharge: 34° , 65° and $10^\circ x44^\circ$ T 37°C

MICROZIP ROUND COMFORT Aluminium front trim

Acid - Etched Glass



Transparent glass

Ø 85

20

91

> 12

S.7814N

S.7811N 1 HIGH-POWER LED 4000K CRI90 2351m h(m) E(lx) 4000K Rated luminaire luminous flux 1831m 5.0 2.0 12° S.7811W 1 HIGH-POWER LED 3000K CRI90 2151m 3.0 7.0 1 HIGH-POWER LED 3000K CRI90 2151m 2.0 23.0 1.0 95.0 S.7811H 1 HIGH-POWER LED 2700K CRI90 2051m 0.1 m 0(m)	l°	 1 HIGH-POWER LED 4000K CRI90 115lm Rated luminaire luminous flux 21lm S.7814W 1 HIGH-POWER LED 3000K CRI90 105lm Rated luminaire luminous flux 20lm S.7814H 1 HIGH-POWER LED 2700K CRI90 100lm Rated luminaire luminous flux 19lm Rated input power 2,2W 220V-240V AC 50/60Hz / DC Not Dimmable Led position fixed 	0.1 m	0.0 91° 0.0 0.5 1.0 7.5 ✓0(m)	
	0	1 HIGH-POWER LED 4000K CRI90 235lm Rated luminaire luminous flux 183lm S.7811W 1 HIGH-POWER LED 3000K CRI90 215lm Rated luminaire luminous flux 168lm S.7811H 1 HIGH-POWER LED 2700K CRI90 205lm	5.0 4.0 3.0 2.0 1.0	2.0 12° 3.5 7.0 23.0 95.0	

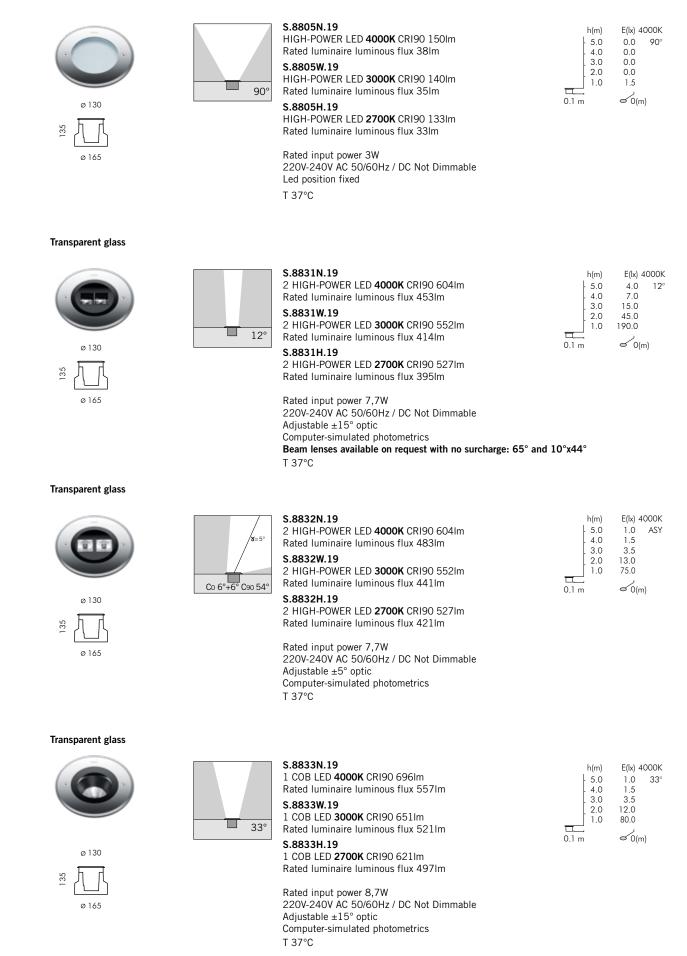
Rated input power 3,6W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable $\pm 15^{\circ}$ optic Computer-simulated photometrics Beam lenses available on request with no surcharge: 34°, 65° and 10°x44° T 37°C

SIMES	7

MINIZIP ROUND COMFORT Stainless-steel front trim

SIMES

Acid - Etched Glass



MINIZIP ROUND COMFORT Aluminium front trim

SIMES

E(lx) 4000K

0.0 90°

0.0

0.0 0.0

1.5

✓ 0(m)

h(m)

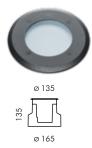
5.0

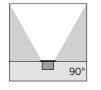
4.0

3.0 2.0

1.0

Acid - Etched Glass





S.7805N HIGH-POWER LED 4000K CRI90 150Im Rated luminaire luminous flux 38Im	ŀ
S.7805W HIGH-POWER LED 3000K CRI90 140Im Rated luminaire luminous flux 35Im	
S.7805H HIGH-POWER LED 2700K CRI90 133Im Rated luminaire luminous flux 33Im	0.1 m

Rated input power 3W 220V-240V AC 50/60Hz / DC Not Dimmable Led position fixed T 37°C

Transparent glass



ø 165



S.7831N	n(m) E(lx) 4000K
2 HIGH-POWER LED 4000K CRI90 604Im	5.0 4.0	D 12°
	4.0 7.0	-
C 7021W	3.0 15.0	
	2.0 45.0	
2 HIGH-POWER LED 3000K CRI90 552lm	1.0 190.0)
Rated luminaire luminous flux 414lm	~	2()
S.7831H 0.1 m	0 (J(m)
2 HIGH-POWER LED 2700K CRI90 527Im		
Rated luminaire luminous flux 395lm		

Rated input power 7,7W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics Beam lenses available on request with no surcharge: 65° and 10°x44° T 37°C

Transparent glass







S 7832N

S.7832N	h(m)	E(lx) 4000K
2 HIGH-POWER LED 4000K CRI90 604Im	- 5.0	1.0 ASY
Rated luminaire luminous flux 483lm	4.0	1.5
S.7832W	. 3.0	3.5
2 HIGH-POWER LED 3000K CRI90 552lm Rated luminaire luminous flux 441lm	2.0 1.0	13.0 75.0
S.7832H	0.1 m	0 0(m)
2 HIGH-POWER LED 2700K CRI90 527lm		
Rated luminaire luminous flux 421lm		

Rated input power 7,7W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±5° optic Computer-simulated photometrics T 37°C

Transparent glass







S.7833N 1 COB LED **4000K** CRI90 696lm Rated luminaire luminous flux 557Im S.7833W 1 COB LED 3000K CRI90 6511m Rated luminaire luminous flux 521lm

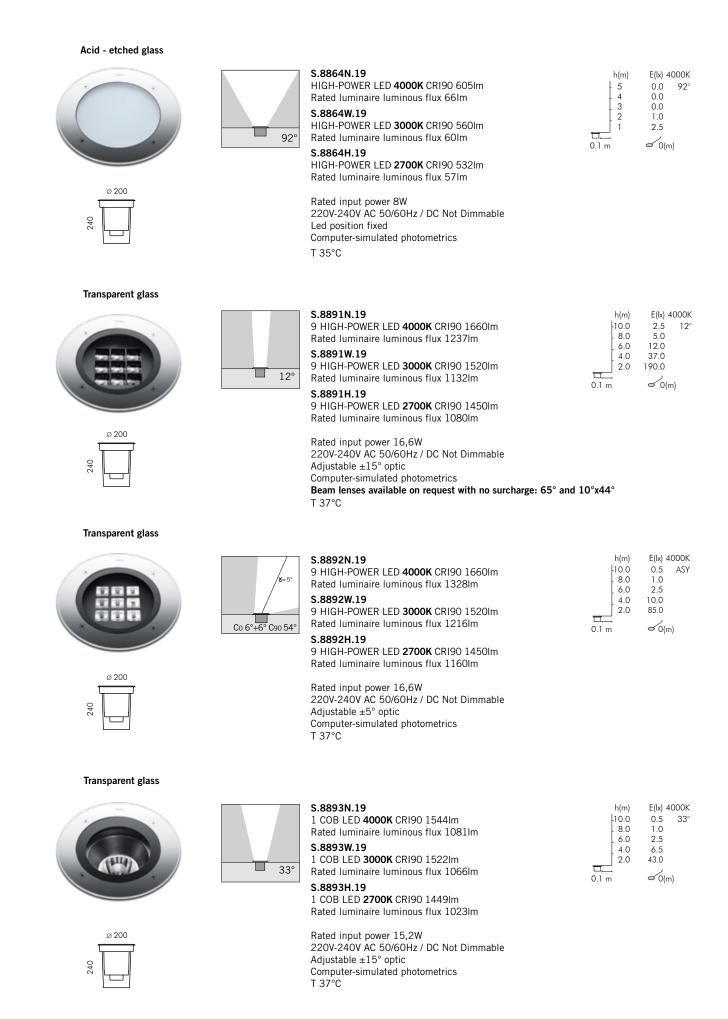
S.7833H 1 COB LED 2700K CRI90 621Im Rated luminaire luminous flux 497Im

Rated input power 8,7W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics T 37°C

h(m)	E(lx) 4000K
- 5.0	1.0 33°
- 4.0	1.5
. 3.0	3.5
2.0	12.0
1.0	80.0
	/
0.1 m	🗢 0(m)

ZIP ROUND COMFORT Stainless-steel front trim

SIMES



ZIP ROUND COMFORT Aluminium front trim

SIMES

Acid - etched glass



T 37°C

MEGAZIP ROUND COMFORT Stainless-steel front trim

SIMES



MEGAZIP ROUND COMFORT Aluminium front trim

SIMES



T 37°C







ZIP SQUARE COMFORT Walk-over

Die-cast EN AB-44100 aluminium housing with high corrosion resistance. Marine grade stainless steel AISI 316L front trim 2 mm thick or aluminium. Toughened glass diffuser 8mm thick for Microzip, 8mm thick for Microzip, 8mm thick for Minizip, 10mm thick for Zip, 12mm thick for Megazip. Stainless steel screws. Pre-wired luminaire with neoprene cable and connector. Recessing box in polypropylene. Silicone gaskets. **Double powder paint.**

Maximum weight 1000 Kg

Protection class IP65 / IP67

Isolation class CLASS I

Mechanical resistance

For the latest technical information and luminaire updates with LED technology please refer to www.simes.it



The recessing box must be placed at ground level.

20 cm drainage gravel must be used under the recessing box to allow easy water evacuation. Connection to the main line has to be

done into junction boxes.

S.5506

4 way connector for through wiring (in/out). Only for Minizip, Zip and Megazip.

Finishing:

Black (code. 09)

Stainless steel (code. 19)

MICROZIP SQUARE COMFORT Stainless-steel front trim

SIMES

h(m) 2.5 2.0 1.5 1.0

0.5

0.1 m

E(lx) 4000K

0.0 91°

0.0 0.5

1.0

7.5

♂ 0(m)

E(lx) 4000K 2.0 3.5 7.0

23.0

95.0 ✓ 0(m)

12°

Acid - Etched Glass



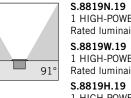


Transparent glass









1 HIGH-POWER LED 4000K CRI90 115Im Rated luminaire luminous flux 211m 1 HIGH-POWER LED 3000K CRI90 105Im Rated luminaire luminous flux 20lm 1 HIGH-POWER LED 2700K CRI90 100lm Rated luminaire luminous flux 19Im

Rated input power 2,2W 220V-240V AC 50/60Hz / DC Not Dimmable Led position fixed

	S.881 1 HIGI Rated
 12°	S.881 1 HIGI Rated
	S.881

S.8815N.19	h(m)
1 HIGH-POWER LED 4000K CRI90 235Im	- 5.0
Rated luminaire luminous flux 183Im	- 4.0
S.8815W.19	3.0
1 HIGH-POWER LED 3000K CRI90 215Im	2.0
Rated luminaire luminous flux 168Im	1.0
S.8815H.19 1 HIGH-POWER LED 2700K CRI90 205Im Rated luminaire luminous flux 160Im	0.1 m

Rated input power 3,6W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics Beam lenses available on request with no surcharge: 34° , 65° and $10^\circ x44^\circ$ T 37°C

MICROZIP SQUARE COMFORT Aluminium front trim

Acid - Etched Glass	91°	 S.7819N 1 HIGH-POWER LED 4000K CRI90 115lm Rated luminaire luminous flux 21lm S.7819W 1 HIGH-POWER LED 3000K CRI90 105lm Rated luminaire luminous flux 20lm S.7819H 1 HIGH-POWER LED 2700K CRI90 100lm Rated luminaire luminous flux 19lm Rated input power 2,2W 220V-240V AC 50/60Hz / DC Not Dimmable 	h(m) 2.5 2.0 1.5 1.0 0.5 0.1 m	E(lx) 4000K 0.0 91° 0.5 1.0 7.5
Transparent glass 85×85 85×85 2 2 2 120×120	12°	Led position fixed S.7815N 1 HIGH-POWER LED 4000K CRI90 235Im Rated luminaire luminous flux 183Im S.7815W 1 HIGH-POWER LED 3000K CRI90 215Im Rated luminaire luminous flux 168Im S.7815H 1 HIGH-POWER LED 2700K CRI90 205Im Rated luminaire luminous flux 160Im Rated input power 3,6W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics	h(m) 5.0 4.0 3.0 2.0 1.0 0.1 m	E(lx) 4000K 2.0 12° 3.5 7.0 23.0 95.0 € 0(m)

Computer-simulated photometrics Beam lenses available on request with no surcharge: 34°, 65° and 10°x44° T 37°C

MINIZIP SQUARE COMFORT Stainless-steel front trim

SIMES

Acid - Etched Glass

Acia - Elchea Glass			
130×130 $92 \qquad 155 \times 165$	90°	S.8825N.19 HIGH-POWER LED 4000K CRI90 150Im Rated luminaire luminous flux 38Im S.8825W.19 HIGH-POWER LED 3000K CRI90 140Im Rated luminaire luminous flux 35Im S.8825H.19 HIGH-POWER LED 2700K CRI90 133Im Rated luminaire luminous flux 33Im Rated input power 3W 220V-240V AC 50/60Hz / DC Not Dimmable Led position fixed T 37°C	h(m) E(lx) 4000K 5.0 0.0 90° 4.0 0.0 3.0 0.0 2.0 0.0 1.0 1.5 0.1 m © 0(m)
Transparent glass			
130×130 $ \underset{k=1}{\underline{82}} \qquad \underbrace{130 \times 130}_{165 \times 165} $	12°	 S.8835N.19 4 HIGH-POWER LED 4000K CRI90 6711m Rated luminaire luminous flux 5441m S.8835W.19 4 HIGH-POWER LED 3000K CRI90 6141m Rated luminaire luminous flux 4971m S.8835H.19 4 HIGH-POWER LED 2700K CRI90 5841m Rated luminaire luminous flux 4731m Rated input power 7,1W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics Beam lenses available on request with no surcharge: 6 T 37°C 	h(m) E(k) 4000K 5.0 4.5 12° 4.0 7.5 3.0 18.0 2.0 52.0 1.0 210.0 0.1 m C 0(m) 5° and 10°x44°
Transparent glass			
130×130 $52 \qquad 135 \times 165$	x=5° Co 6°+6° C90 54°	 S.8836N.19 4 HIGH-POWER LED 4000K CRI90 671Im Rated luminaire luminous flux 571Im S.8836W.19 4 HIGH-POWER LED 3000K CRI90 614Im Rated luminaire luminous flux 520Im S.8836H.19 4 HIGH-POWER LED 2700K CRI90 584Im Rated luminaire luminous flux 496Im Rated input power 7,1W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±5° optic Computer-simulated photometrics T 37°C 	h(m) E(lx) 4000K 5.0 1.0 ASY 4.0 1.5 3.0 4.0 2.0 14.0 1.0 85.0 0.1 m C 0(m)
Transparent glass			
130×130 $\frac{130 \times 130}{165 \times 165}$	3 3°	S.8837N.19 1 COB LED 4000K CRI90 696Im Rated luminaire luminous flux 557Im S.8837W.19 1 COB LED 3000K CRI90 651Im Rated luminaire luminous flux 521Im S.8837H.19 1 COB LED 2700K CRI90 621Im Rated luminaire luminous flux 497Im Rated input power 8,7W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics T 2700	h(m) E(lx) 4000K 5.0 1.0 33° 4.0 1.5 3.0 3.5 2.0 12.0 1.0 80.0 0.1 m 0 0(m)

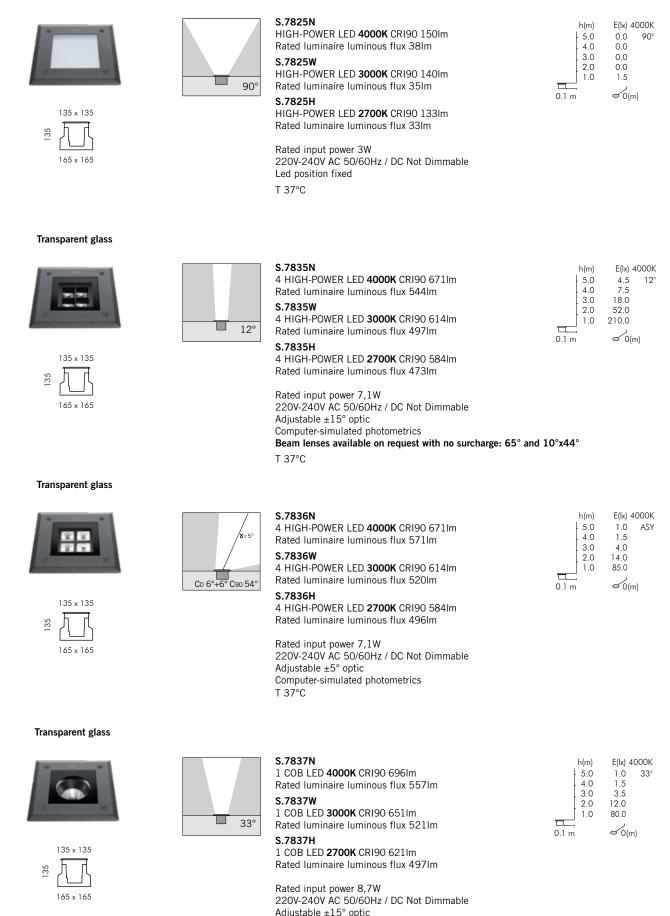
T 37°C

18 🛛 SIMES

MINIZIP SQUARE COMFORT Aluminium front trim

SIMES

Acid - Etched Glass

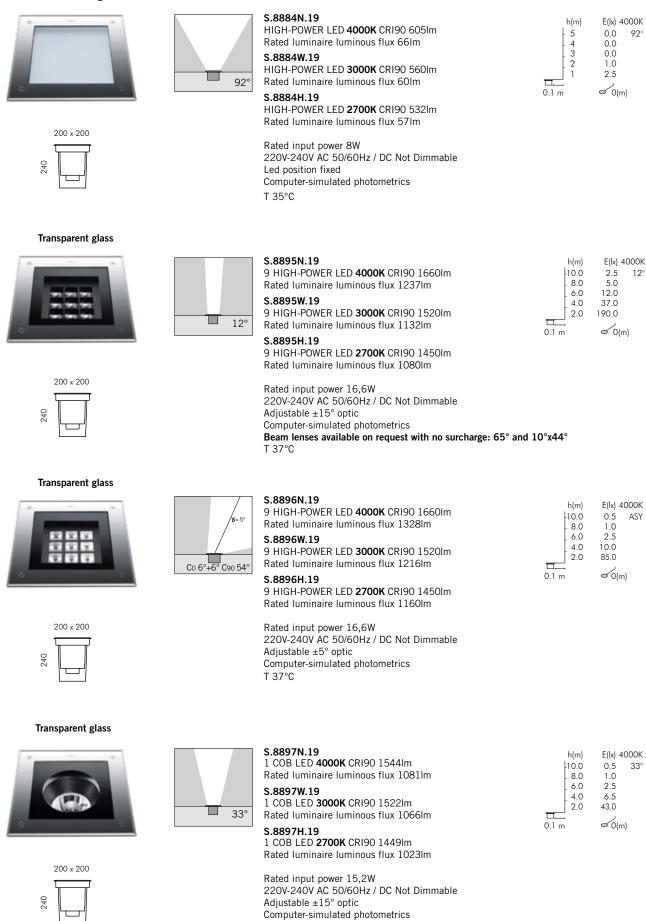


Adjustable ±15° optic Computer-simulated photometrics T 37°C

ZIP SQUARE COMFORT Stainless-steel front trim

SIMES





T 37°C

ZIP SQUARE COMFORT Aluminium front trim

SIMES

h(m)

h(m)

10.0

8.0

6.0 4.0

2.0

0.1 m

E(lx) 4000K

0.0 92°

0.0 0.0

1.0

2.5

⊖ 0(m)

E(lx) 4000K

2.5 12°

5.0

12.0

37.0

190.0

♂ 0(m)

E(lx) 4000K 0.5 ASY

1.0 2.5 10.0 85.0

Acid - etched glass







S.7884N

HIGH-POWER LED 4000K CRI90 605Im Rated luminaire luminous flux 66lm

S.7884W

HIGH-POWER LED 3000K CRI90 560Im Rated luminaire luminous flux 60lm

S.7884H

HIGH-POWER LED 2700K CRI90 532Im Rated luminaire luminous flux 57lm

Rated input power 8W 220V-240V AC 50/60Hz / DC Not Dimmable Led position fixed Computer-simulated photometrics T 35°C

Transparent glass



210 x 210

240



S.7895N 9 HIGH-POWER LED 4000K CRI90 1660Im Rated luminaire luminous flux 1237lm S.7895W 9 HIGH-POWER LED 3000K CRI90 1520lm Rated luminaire luminous flux 1132lm \Box . 0.1 m S.7895H

9 HIGH-POWER LED 2700K CRI90 1450Im Rated luminaire luminous flux 1080lm

Rated input power 16,6W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics Beam lenses available on request with no surcharge: 65° and 10°x44° T 37°C

Transparent glass





Transparent glass







S.7896N	h(m)
9 HIGH-POWER LED 4000K CRI90 1660Im	-10.0
Rated luminaire luminous flux 1328Im	- 8.0
S.7896W	6.0
9 HIGH-POWER LED 3000K CRI90 1520Im	4.0
Rated luminaire luminous flux 1216Im	2.0
S.7896H 9 HIGH-POWER LED 2700K CRI90 1450Im Rated luminaire luminous flux 1160Im	0.1 m

Rated input power 16,6W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±5° optic Computer-simulated photometrics T 37°C



S.7897N	h(m)	E(I
1 COB LED 4000K CRI90 1544lm	-10.0	0.
Rated luminaire luminous flux 1081lm	- 8.0	1.
S.7897W	6.0	2.
1 COB LED 3000K CRI90 1522Im	4.0	6.
Rated luminaire luminous flux 1066Im	2.0	43.
S.7897H 1 COB LED 2700K CRI90 1449Im Rated Iuminaire Iuminous flux 1023Im	0.1 m	0

Rated input power 15,2W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable $\pm 15^{\circ}$ optic Computer-simulated photometrics T 37°C

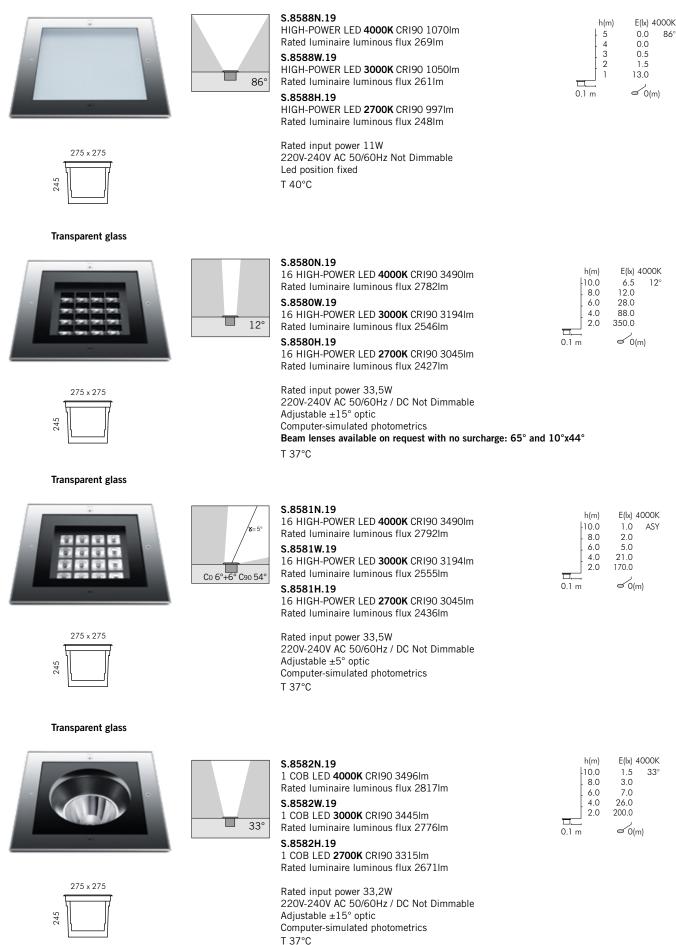
h(m)	E(lx) 4000K
10.0	0.5 33°
- 8.0	1.0
6.0	2.5
4.0	6.5
2.0	43.0
0.1 m	⊂0(m)

MEGAZIP SQUARE COMFORT Stainless-steel front trim

SIMES

86°





MEGAZIP SQUARE COMFORT Aluminium front trim

SIMES





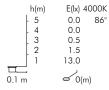


HIGH-POWER LED 4000K CRI90 1070Im Rated luminaire luminous flux 269Im

S.8598W HIGH-POWER LED 3000K CRI90 1050Im Rated luminaire luminous flux 261lm

S.8598H HIGH-POWER LED 2700K CRI90 997Im Rated luminaire luminous flux 248lm

Rated input power 11W 220V-240V AC 50/60Hz Not Dimmable Led position fixed T 40°C



E(lx) 4000K

6.5 12

12.0

28.0 88.0

350.0

♂ 0(m)

h(m) 10.0

8.0

6.0

4.0

2.0

0.1 m

Transparent glass

245

280 x 280







S.8590N

3.03901	
16 HIGH-POWER LED 4000K CRI90 3490lm	
Rated luminaire luminous flux 2782lm	
S.8590W	
16 HIGH-POWER LED 3000K CRI90 3194Im	
Rated Iuminaire Iuminous flux 2546Im	
S 8590H	

16 HIGH-POWER LED 2700K CRI90 3045Im Rated luminaire luminous flux 2427lm

Rated input power 33,5W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics

Beam lenses available on request with no surcharge: 65° and $10^\circ x44^\circ$ T 37°C

Transparent glass



280 x 280

245



33°

S 8591N

	h(m)	E(lx) 4000K
16 HIGH-POWER LED 4000K CRI90 3490Im	10.0	1.0 ASY
Rated Iuminaire Iuminous flux 2792Im	. 8.0	2.0
S.8591W	. 6.0	5.0
16 HIGH-POWER LED 3000K CRI90 3194lm	4.0	21.0
Rated Iuminaire Iuminous flux 2555lm	2.0	170.0
	L,, 0.1 m	
S.8591H	0.1 m	C 0(m)
16 HIGH-POWER LED 2700K CRI90 3045Im		
Rated luminaire luminous flux 2436lm		

Rated input power 33,5W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±5° optic Computer-simulated photometrics T 37°C

> h(m) E(lx) 4000K 10.0 1.5 8.0 3.0 7.0 6.0 4.0 26.0 2.0 200.0 0.1 m ♂0(m)

33°

Rated luminaire luminous flux 2776lm S.8592H

S.8592N

S.8592W

1 COB LED 2700K CRI90 3315Im Rated luminaire luminous flux 2671lm

1 COB LED 4000K CRI90 3496Im

1 COB LED 3000K CRI90 3445Im

Rated luminaire luminous flux 2817lm

Rated input power 33,2W 220V-240V AC 50/60Hz / DC Not Dimmable Adjustable ±15° optic Computer-simulated photometrics T 37°C

SIMES 23



280 x 280





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