VOSSLOH SCHWABE



VS LED Downlights

For Brilliant Ambient Lighting

DOWNLIGHTS

PRO SERIES / PRIME SERIES



Vossloh-Schwabe is not merely a manufacturer of top-quality components for the lighting industry, but above all makes a competent and innovative contribution to setting market trends in the field of LED lighting.

Numerous VS project solutions implemented on the basis of entire LED systems are currently satisfying the high requirements placed on energy-efficient lighting all over the world.

Employing approximately 1000 people in more than 20 countries, Vossloh-Schwabe is represented all over the world. As a subsidiary of the Japanese Panasonic Group, VS can draw on extensive resources for R&D as well as for international expansion activities.

A highly motivated workforce, comprehensive market knowledge, profound industry expertise as well as eco-awareness and environmental responsibility show Vossloh-Schwabe to be a reliable partner for the provision of optimum and cost-effective LED lighting solutions. But Vossloh-Schwabe naturally also continues to provide all components needed in the field of conventional lighting technology.

Vossloh-Schwabe's dedication to delivering superior quality is reflected in its ISO 9001 certification.

Vossloh-Schwabe is ready to embark on a collaborative journey into an economically illuminated LED future.

ADVANTAGES OF VS LED DOWNLIGHTS

LED Recessed Mounted Downlight
The integration of solid state lighting technology to conventional down light provides optimal light distribution and extended lifetime, all at an affordable price. LED downlights are fully compatible with existing conventional downlight infrastructure, and are the perfect choice for both new and replacement markets.

PRO SERIES

- Slim design for easy installation in low false ceiling
- Integrated driver, direct connection to mains without additional connectors and/or junction box
- Dimmable with regular phase-cut dimmer (Pro Series)
- Tunable white-option to regulate white colour temperature by simple switch of the mains via wall switch (Pro Tune Series)

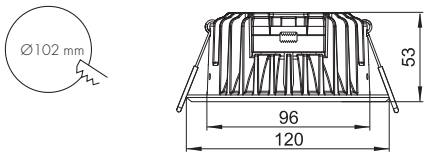
PRIME SERIES

- Very high efficiency of up to 100 lm/W
- Slim design for easy installation in low false ceiling
- High CRI ≥ 85
- Dimmable with external dimmable drivers

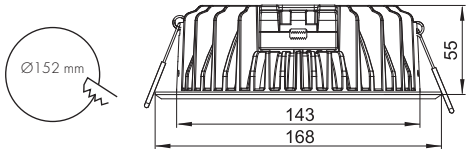
Pro Series

4 inches 12 W / 6 inches 18 W

Advanced dimmable design (Pro Series)
or tunable white function (Pro Tune Series)
Voltage supply: 220–240 V AC
Integrated driver for direct connection to mains
Allowed operating temperature: –10 to 50 °C
Allowed storage temperature: –10 to 50 °C
Screw terminals: 2.5 mm²
Quantity of screw terminals: 1x2-poles primary
Protection class II
SELV
Degree of protection: IP20
Service life time: > 35,000 hours (L50)



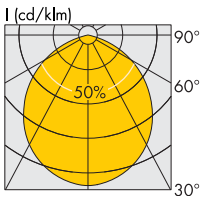




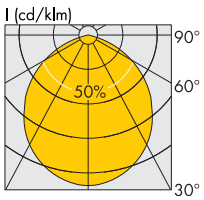
Type	Ref. No.	Colour	Colour temperature K	CRI	Luminous flux lm	Beam angle °	Power factor	Dimming	Efficiency lm/W	System power W
Pro Series 4 inches										
DL-PRO-12-3000-110	**550880**	warm white	3000	≥ 80	850	110	> 0.9	Yes	71	12
DL-PRO-12-4000-110	**550882**	neutral white	4000	≥ 80	880	110	> 0.9	Yes	73	12
DL-PRO-12-6000-110	**550884**	cool white	6000	≥ 75	910	110	> 0.9	Yes	76	12
Pro Series 6 inches										
DL-PRO-18-3000-110	**550885**	warm white	3000	≥ 80	1350	110	> 0.9	Yes	75	18
DL-PRO-18-4000-110	**550886**	neutral white	4000	≥ 80	1450	110	> 0.9	Yes	80	18
DL-PRO-18-6000-110	**550887**	cool white	6000	≥ 75	1500	110	> 0.9	Yes	85	18
Pro Tune Series										
DL-PROTUNE-12-110	**550888**	warm/neutral/cool white	3000/4000/6000	≥ 80	730/870/860	110	> 0.9	No	61/73/72	12
DL-PROTUNE-18-110	**550889**	warm/neutral/cool white	3000/4000/6000	≥ 80	1200/1480/1420	110	> 0.9	No	67/82/79	18

Test standards: IEC/EN 60598-1, IEC/EN 60598-2-2, IEC/EN 62493, IEC/EN 55015, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61547

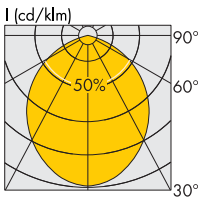
Typical light distribution curves



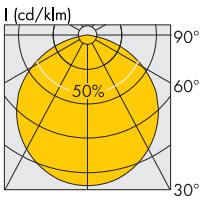
Pro Series
4 inches 12 W



Pro Series
6 inches 18 W



Pro Tune Series
4 inches 12 W

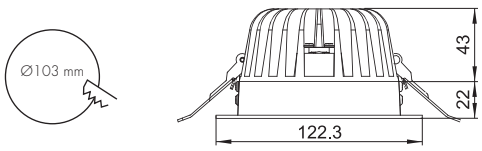


Pro Tune Series
6 inches 18 W

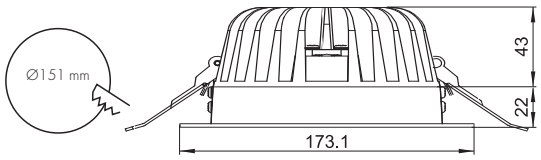
Prime L Series

4 inches / 6 inches

Current supply
4 inches: 350 mA DC
6 inches: 700 mA DC
Allowed operating temperature: -40 to 45 °C
Allowed storage temperature: -40 to 60 °C
Primary lead: PVC insulation, length: 200 mm
Protection class III
Degree of protection: IP20
Service life time: > 50,000 hours (L50)



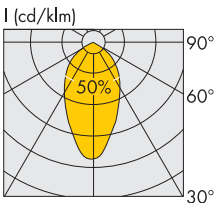




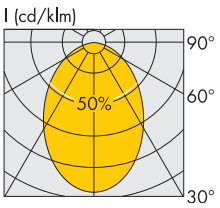
Type	Ref. No.	Colour	Colour temperature K	CRI	Luminous flux lm	Beam angle °	LED power W	Efficiency lm/W	Front plate transparency
Prime L Series 4 inches									
DL-PRIME-L-12-3000-60-C	**550890**	warm white	3000	≥ 85	1300	60	12	108	99% clear glass
DL-PRIME-L-12-3000-80-D	**550891**	warm white	3000	≥ 85	1200	80	12	100	87% diffusion panel
DL-PRIME-L-12-4000-60-C	**550892**	neutral white	4000	≥ 85	1300	60	12	108	99% clear glass
DL-PRIME-L-12-4000-80-D	**550893**	neutral white	4000	≥ 85	1200	80	12	100	87% diffusion panel
Prime L Series 6 inches									
DL-PRIME-L-24-3000-45-C	**550894**	warm white	3000	≥ 85	2500	45	24	104	99% clear glass
DL-PRIME-L-24-3000-80-D	**550895**	warm white	3000	≥ 85	2300	80	24	96	87% diffusion panel
DL-PRIME-L-24-4000-45-C	**550896**	neutral white	4000	≥ 85	2500	45	24	104	99% clear glass
DL-PRIME-L-24-4000-80-D	**550897**	neutral white	4000	≥ 85	2300	80	24	96	87% diffusion panel

Test standards: IEC/EN 60598-1, IEC/EN 60598-2-2, IEC/EN 62031, IEC/EN 62471, IEC/EN 55015, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61547

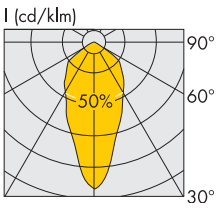
Typical light distribution curves



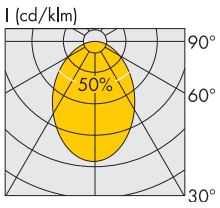
Prime L Series
4 inches 12 W
99% Clear glass



Prime L Series
4 inches 12 W
87% Diffusion panel



Prime L Series
6 inches 24 W
99% Clear glass



Prime L Series
6 inches 24 W
87% Diffusion panel

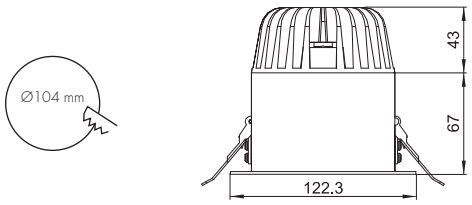
Prime H Series

4 inches / 6 inches / 8 inches

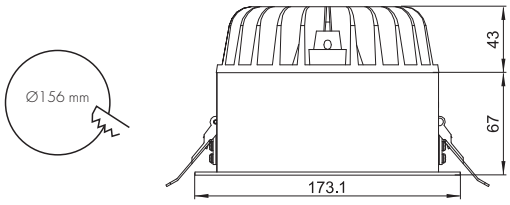
Current supply
- 4 inches: 350 mA DC
- 6 inches: 700 mA DC
- 8 inches: 1050 mA DC

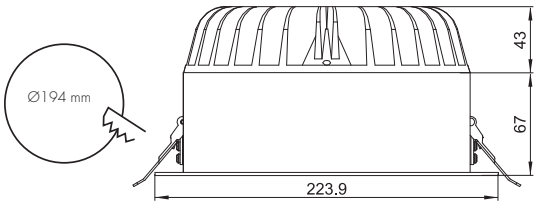
Allowed operating temperature: –40 to 45 °C
Allowed storage temperature: –40 to 60 °C
Primary lead: PVC insulation, lengths:
- 200 mm (4 inches and 6 inches)
- 300 mm (8 inches)

Protection class III
Degree of protection: IP20
Service life time: > 50,000 hours (L50)





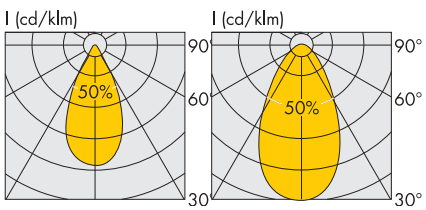




Type	Ref. No.	Colour	Colour temperature K	CRI	Luminous flux lm	Beam angle °	LED power W	Efficiency lm/W	Front plate transparency
Prime H Series 4 inches									
DL-PRIME-H-12-3000-50-C	**550898**	warm white	3000	≥ 85	1030	50	12	86	99% clear glass
DL-PRIME-H12-3000-60-D	**550899**	warm white	3000	≥ 85	890	60	12	75	87% diffusion panel
DL-PRIME-H-12-4000-50-C	**550900**	neutral white	4000	≥ 85	1130	50	12	95	99% clear glass
DL-PRIME-H-12-4000-60-D	**550901**	neutral white	4000	≥ 85	920	60	12	76	87% diffusion panel
Prime H Series 6 inches									
DL-PRIME-H-24-3000-40-C	**550902**	warm white	3000	≥ 85	2050	40	24	85	99% clear glass
DL-PRIME-H-24-3000-70-D	**550903**	warm white	3000	≥ 85	1760	70	24	72	87% diffusion panel
DL-PRIME-H-24-4000-40-C	**550904**	neutral white	4000	≥ 85	2340	40	24	98	99% clear glass
DL-PRIME-H-24-4000-70-D	**550905**	neutral white	4000	≥ 85	2020	70	24	84	87% diffusion panel
Prime H Series 8 inches									
DL-PRIME-H-36-3000-40-C	**550906**	warm white	3000	≥ 85	3380	40	36	93	99% clear glass
DL-PRIME-H-36-3000-65-D	**550907**	warm white	3000	≥ 85	2800	65	36	77	87% diffusion panel
DL-PRIME-H-36-4000-40-C	**550908**	neutral white	4000	≥ 85	3400	40	36	94	99% clear glass
DL-PRIME-H-36-4000-65-D	**550909**	neutral white	4000	≥ 85	2880	65	36	80	87% diffusion panel

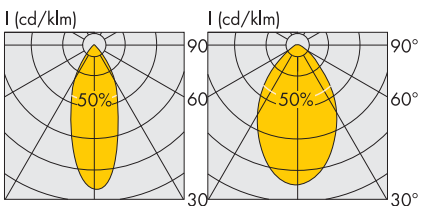
Test standards: IEC/EN 60598-1, IEC/EN 60598-2-2, IEC/EN 62031, IEC/EN 62471, IEC/EN 55015, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61547

Typical light distribution curves



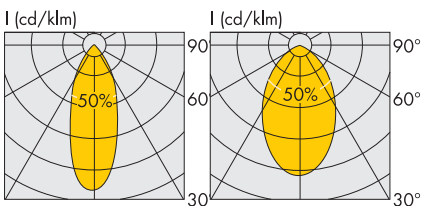
Prime H Series 4 inches 12 W 99% Clear glass

Prime H Series 4 inches 12 W 87% Diffusion panel



Prime H Series 6 inches 24 W 99% Clear glass

Prime H Series 6 inches 24 W 87% Diffusion panel



Prime H Series 8 inches 36 W 99% Clear glass

Prime H Series 8 inches 36 W 87% Diffusion panel

Typical Luminance / Replacements

Pro Series at 1, 2 and 3 meters

Intensity (lux)												
Colour temperature K	**Pro Series 4 inches**			**Pro Series 6 inches**			**Pro Tune Series 4 inches**			**Pro Tune Series 6 inches**		
	1 m	2 m	3 m	1 m	2 m	3 m	1 m	2 m	3 m	1 m	2 m	3 m
Warm White 3000 K	335	80	35	510	125	55	260	65	25	435	105	45
Neutral White 4000 K	380	90	40	620	150	65	310	75	30	525	130	55
Cool White 6000 K	425	105	45	680	170	75	320	80	35	545	135	60

Type	Suitable replacement
Pro Series 4 inches	
DL-PRO-12-3000-110	1 x 26 W CFL downlight, 1 x 18 W CFL downlight
DL-PRO-12-4000-110	
DL-PRO-12-6000-110	
Pro Series 6 inches	
DL-PRO-18-3000-110	2 x 18 W CFL downlight, 1 x 32 W CFL downlight
DL-PRO-18-4000-110	
DL-PRO-18-6000-110	
Pro Tune Series 4 inches	
DL-PROTUNE-12-110	2 x 10 W CFL downlight, 1 x 18 W CFL downlight
Pro Tune Series 6 inches	
DL-PROTUNE-18-110	1 x 26 W CFL downlight, 2 x 13 W CFL downlight

Typical Luminance / Replacements

Prime L Series / Prime H Series at 1, 2 and 3 meters

Intensity (lux)						
Colour temperature K	**Prime L Series 4 inches**			**Prime L Series 6 inches**		
	1 m	2 m	3 m	1 m	2 m	3 m
Warm White 3000 K 99% clear glass	1070	270	120	2300	575	255
Warm White 3000 K 87% diffusion panel	630	160	70	1160	290	130
Neutral White 4000 K 99% clear glass	1120	280	125	2370	590	260
Neutral White 4000 K 87% diffusion panel	627	157	70	1180	295	130

Intensity (lux)									
Colour temperature K	**Prime H Series 4 inches**			**Prime H Series 6 inches**			**Prime H Series 8 inches**		
	1 m	2 m	3 m	1 m	2 m	3 m	1 m	2 m	3 m
Warm White 3000 K 99% clear glass	1440	360	160	3620	900	400	5746	1435	640
Warm White 3000 K 87% diffusion panel	750	190	83	1345	336	150	2100	525	233
Neutral White 4000 K 99% clear glass	1550	390	173	4210	1050	470	6090	1523	677
Neutral White 4000 K 87% diffusion panel	770	193	86	1540	385	172	2142	535	238

Type	Suitable replacement
Prime L Series 4 inches	
DL-PRIME-L-12-3000-60-C	2 x 13 W CFL downlight, 1 x 26 W CFL downlight
DL-PRIME-L-12-3000-80-D	
DL-PRIME-L-12-4000-60-C	
DL-PRIME-L-12-4000-80-D	
Prime L Series 6 inches	
DL-PRIME-L-24-3000-45-C	2 x 32 W CFL downlight
DL-PRIME-L-24-3000-80-D	
DL-PRIME-L-24-4000-45-C	
DL-PRIME-L-24-4000-80-D	

Type	Suitable replacement
Prime H Series 4 inches	
DL-PRIME-H-12-3000-50-C	2 x 13 W CFL downlight , 1 x 26 W CFL downlight, 20 W HI downlight
DL-PRIME-H12-3000-60-D	
DL-PRIME-H-12-4000-50-C	
DL-PRIME-H-12-4000-60-D	
Prime H Series 6 inches	
DL-PRIME-H-24-3000-40-C	2 x 26 W CFL downlight, 1 x 42 W CFL downlight, 35 W HI downlight
DL-PRIME-H-24-3000-70-D	
DL-PRIME-H-24-4000-40-C	
DL-PRIME-H-24-4000-70-D	
Prime H Series 8 inches	
DL-PRIME-H-36-3000-40-C	2 x 42 W CFL downlight, 70 W HI downlight
DL-PRIME-H-36-3000-65-D	
DL-PRIME-H-36-4000-40-C	
DL-PRIME-H-36-4000-65-D	

Whenever an electric light goes on around the world, Vossloh-Schwabe is likely to have made a key contribution to ensuring that everything works at the flick of a switch.

Headquartered in Germany, Vossloh-Schwabe has been a member of the global Panasonic group since 2002 and counts as a technology leader within the lighting sector. Top-quality, high-performance products form the basis of the company's success.

Whether cost-effective standard components or tailor-made product developments are needed, Vossloh-Schwabe can satisfy even the most diverse market and customer requirements. Vossloh-Schwabe's extensive product portfolio covers all lighting components: LED systems with matching control gear units, OLEDs and state-of-the-art control systems (LiCS) as well as electronic and magnetic ballasts and lampholders.



A member of the Panasonic group Panasonic

Vossloh-Schwabe Deutschland GmbH

Hohe Steiner 8 · 58509 Lüdenscheid · Germany
Phone +49/23 51/10 10 · Fax +49/23 51/10 12 17

www.vossloh-schwabe.com

VOSSLOH SCHWABE

All rights reserved © Vossloh-Schwabe
Photos: istock.com
Specifications are subject to change without notice
LED Downlight Pro/Prime GB 06/2013 - VSD