

# V299

## LED downlights - IP43/20

downlight with electronic control gear • control gear option • aluminium ring for mounting of complements • colour option • efficient high quality aluminium reflector MD, WF and reflector HU with UGR < 19 • Rated median operational life-time of luminaires 50 000h L70/B50 at Ta = 25°C • Standard Deviation Colour Matching MacAdam 3-step • quick installation without tools • suitable for assembly in concrete housing • increased IP in enclosed ceilings



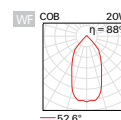
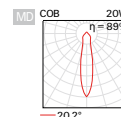
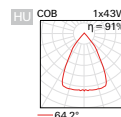
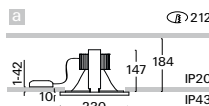
HU



MD



WF



Order code	Pict.	Power	Flux	Tc	Ra	kg
V299sCWI.110/ ..	a	1 x 10 W	1400 lm	3000 K	≥ 80	0,8
V299sCCI.110/ ..	a	1 x 10 W	1450 lm	4000 K	≥ 80	0,8
V299sCDI.110/ ..	a	1 x 10 W	1450 lm	5000 K	≥ 80	0,8
V299sCWI.114/ ..	a	1 x 14 W	1950 lm	3000 K	≥ 80	0,8
V299sCCI.114/ ..	a	1 x 14 W	2000 lm	4000 K	≥ 80	0,8
V299sCDI.114/ ..	a	1 x 14 W	2000 lm	5000 K	≥ 80	0,8
V299sCWI.120/ ..	a	1 x 20 W	2600 lm	3000 K	≥ 80	0,8
V299sCCI.120/ ..	a	1 x 20 W	2650 lm	4000 K	≥ 80	0,8
V299sCDI.120/ ..	a	1 x 20 W	2650 lm	5000 K	≥ 80	0,8
V299sCWI.129/ ..	a	1 x 29 W	3500 lm	3000 K	≥ 80	0,9
V299sCCI.129/ ..	a	1 x 29 W	3600 lm	4000 K	≥ 80	0,9
V299sCDI.129/ ..	a	1 x 29 W	3600 lm	5000 K	≥ 80	0,9
V299sCWI.137/ ..	a	1 x 37 W	4200 lm	3000 K	≥ 80	0,9
V299sCCI.137/ ..	a	1 x 37 W	4300 lm	4000 K	≥ 80	0,9
V299sCDI.137/ ..	a	1 x 37 W	4300 lm	5000 K	≥ 80	0,9
V299sCWI.143/ ..	a	1 x 43 W	4900 lm	3000 K	≥ 80	0,9
V299sCCI.143/ ..	a	1 x 43 W	5000 lm	4000 K	≥ 80	0,9
V299sCDI.143/ ..	a	1 x 43 W	5000 lm	5000 K	≥ 80	0,9
V299sCWI.148/ ..	a	1 x 48 W	5900 lm	3000 K	≥ 80	1,0
V299sCCI.148/ ..	a	1 x 48 W	6050 lm	4000 K	≥ 80	1,0
V299sCDI.148/ ..	a	1 x 48 W	6050 lm	5000 K	≥ 80	1,0

### Higher colour rendering index - CRI (only for Tc 3000K, 4000K)

D

Example of order code assembly: [Ra ≥90](#)

[V299sDCI.143/WFD3](#)

### Dimmable version

[A / C / D / T / L / X / B](#)

Example of order code assembly: [dimmable DALI](#)

[V299sCCD.143/WFD3](#)

### Emergency version

[N / H / F / G](#)

Example of order code assembly: [emergency operation](#)

[V299sCCIN.143/WFD3](#)

### Optional type of reflector

[HU / MD / WF](#)

Example of order code assembly: [reflector WF](#)

[V299sCCI.143/WFD3](#)

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LED COB

W3

S3

D3

B3



230V-50Hz

# V299

## LED downlights - IP44/20 and IP54/20

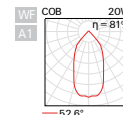
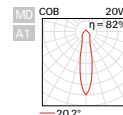
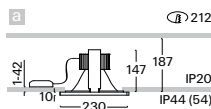
downlight with electronic control gear • control gear option • increased IP44 or optional IP54 in enclosed ceilings • aluminium ring for mounting of complements • colour option • efficient high quality aluminium reflector MD, WF • clear acrylic glass • Rated median operational life-time of luminaires 50 000h L70/B50 at Ta = 25°C • Standard Deviation Colour Matching MacAdam 3-step • quick installation without tools • suitable for assembly in concrete housing



MDA1



WFA1



Order code	Pict.	Power	Flux	Tc	Ra	kg
V299sCWl.110/ .. A1	a	1 x 10 W	1400 lm	3000 K	≥ 80	0,9
V299sCCl.110/ .. A1	a	1 x 10 W	1450 lm	4000 K	≥ 80	0,9
V299sCDI.110/ .. A1	a	1 x 10 W	1450 lm	5000 K	≥ 80	0,9
V299sCWl.114/ .. A1	a	1 x 14 W	1950 lm	3000 K	≥ 80	0,9
V299sCCl.114/ .. A1	a	1 x 14 W	2000 lm	4000 K	≥ 80	0,9
V299sCDI.114/ .. A1	a	1 x 14 W	2000 lm	5000 K	≥ 80	0,9
V299sCWl.120/ .. A1	a	1 x 20 W	2600 lm	3000 K	≥ 80	0,9
V299sCCl.120/ .. A1	a	1 x 20 W	2650 lm	4000 K	≥ 80	0,9
V299sCDI.120/ .. A1	a	1 x 20 W	2650 lm	5000 K	≥ 80	0,9
V299sCWl.129/ .. A1	a	1 x 29 W	3500 lm	3000 K	≥ 80	1,0
V299sCCl.129/ .. A1	a	1 x 29 W	3600 lm	4000 K	≥ 80	1,0
V299sCDI.129/ .. A1	a	1 x 29 W	3600 lm	5000 K	≥ 80	1,0
V299sCWl.137/ .. A1	a	1 x 37 W	4200 lm	3000 K	≥ 80	1,0
V299sCCl.137/ .. A1	a	1 x 37 W	4300 lm	4000 K	≥ 80	1,0
V299sCDI.137/ .. A1	a	1 x 37 W	4300 lm	5000 K	≥ 80	1,0
V299sCWl.143/ .. A1	a	1 x 43 W	4900 lm	3000 K	≥ 80	1,0
V299sCCl.143/ .. A1	a	1 x 43 W	5000 lm	4000 K	≥ 80	1,0
V299sCDI.143/ .. A1	a	1 x 43 W	5000 lm	5000 K	≥ 80	1,0
V299sCWl.148/ .. A1	a	1 x 48 W	5900 lm	3000 K	≥ 80	1,1
V299sCCl.148/ .. A1	a	1 x 48 W	6050 lm	4000 K	≥ 80	1,1
V299sCDI.148/ .. A1	a	1 x 48 W	6050 lm	5000 K	≥ 80	1,1

### Higher colour rendering index - CRI (only for Tc 3000K, 4000K)

D

Example of order code assembly: Ra ≥90

V299sDCI.143/WFA1.D3

### Dimmable version

A / C / D / T / L / X / B

Example of order code assembly: dimmable DALI

V299sCCD.143/WFA1.D3

### Emergency version

N / H / F / G

Example of order code assembly: emergency operation

V299sCCIN.143/WFA1.D3

### Optional type of reflector

HU / MD / WF

Example of order code assembly: reflector WF

V299sCCI.143/WFA1.D3

### Increased protection of luminaire under the ceiling

54

Example of order code assembly: IP54

V299sCCI.143/WFA1.D3-54



LED COB

W3

S3

D3

B3



230V-50Hz

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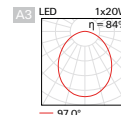
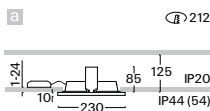
# V299

## LED downlights - IP44/20 and IP54/20

recessed light fitting with electronic control gear • control gear option • increased IP44 or optional IP54 in closed ceiling • assembling and covering rings of aluminium die-cast • colour option • quality aluminium reflector with inner smooth opal or microprismatic opal diffusor made of PMMA • rated median operational life-time of luminaire 50 000h L70/B50 at  $T_a = 25^{\circ}\text{C}$  • Standard Deviation Colour Matching MacAdam 3-step • quick installation without tools • suitable also for assembly in concrete housing



A3



Order code	Pict.	Power	Flux	Tc	Ra	kg
<a href="#">V299sLWI.110/..</a>	a	1 x 10 W	1240 lm	3000 K	≥ 80	0,7
<a href="#">V299sLCI.110/..</a>	a	1 x 10 W	1310 lm	4000 K	≥ 80	0,7
<a href="#">V299sLDI.110/..</a>	a	1 x 10 W	1340 lm	5000 K	≥ 80	0,7
<a href="#">V299sLWI.114/..</a>	a	1 x 14 W	1700 lm	3000 K	≥ 80	0,7
<a href="#">V299sLCI.114/..</a>	a	1 x 14 W	1790 lm	4000 K	≥ 80	0,7
<a href="#">V299sLDI.114/..</a>	a	1 x 14 W	1840 lm	5000 K	≥ 80	0,7
<a href="#">V299sLWI.120/..</a>	a	1 x 20 W	2360 lm	3000 K	≥ 80	0,7
<a href="#">V299sLCI.120/..</a>	a	1 x 20 W	2480 lm	4000 K	≥ 80	0,7
<a href="#">V299sLDI.120/..</a>	a	1 x 20 W	2550 lm	5000 K	≥ 80	0,7
<a href="#">V299sLWI.126/..</a>	a	1 x 26 W	3330 lm	3000 K	≥ 80	0,7
<a href="#">V299sLCI.126/..</a>	a	1 x 26 W	3490 lm	4000 K	≥ 80	0,7
<a href="#">V299sLDI.126/..</a>	a	1 x 26 W	3590 lm	5000 K	≥ 80	0,7

### Higher colour rendering index value (CRI)

M

Example of order code assembly: [Ra ≥90](#)

[V299sMWI.126/A3.D3](#)

### Dimmable version

A / B / D / T / L / X

Example of order code assembly: [dimmable DALI](#)

[V299sLWD.126/A3.D3](#)

### Emergency version

N / H / F / G

Example of order code assembly: [emergency operation](#)

[V299sLWIN.126/A3.D3](#)

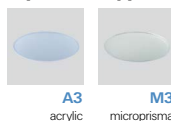
### Increased protection of luminaire under the ceiling

54

Example of order code assembly: [IP54](#)

[V299sCCI.143/WFA1.D3-54](#)

### PDF Optional types of acrylic glass



A3

acrylic

M3

microprisma

Example of order code assembly:  
[acrylic glass - opal](#)

[V299sLWI.126/A3.D3](#)

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LED plate

W3

S3

D3

B3



230V-50Hz

# V299

## LED downlights - IP44/20

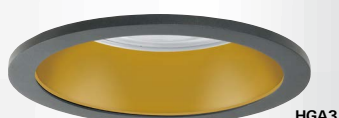
recessed light fitting with electronic control gear • control gear option • assembling and covering rings of aluminium die-cast • colour option • quality aluminium reflector with inner smooth opal or microprismatic opal diffuser of PMMA • smooth reflector in black, gold or white colour or also RAL on request • rated median operational life-time of luminaire 50 000h L70/B50 at Ta = 25°C • Standard Deviation Colour Matching MacAdam 3-step • quick installation without tools • suitable also for assembly in concrete housing • increased IP in closed ceiling



HDA3



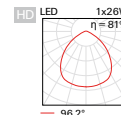
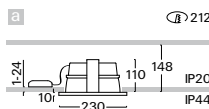
SBA3



HGA3



SWA3



Order code	Pict.	Power	Flux	Tc	Ra	kg
<a href="#">V299sLWI.110/...</a>	a	1 x 10 W	1240 lm	3000 K	≥ 80	0.8
<a href="#">V299sLCI.110/...</a>	a	1 x 10 W	1310 lm	4000 K	≥ 80	0.8
<a href="#">V299sLDI.110/...</a>	a	1 x 10 W	1340 lm	5000 K	≥ 80	0.8
<a href="#">V299sLWI.114/...</a>	a	1 x 14 W	1700 lm	3000 K	≥ 80	0.8
<a href="#">V299sLCI.114/...</a>	a	1 x 14 W	1790 lm	4000 K	≥ 80	0.8
<a href="#">V299sLDI.114/...</a>	a	1 x 14 W	1840 lm	5000 K	≥ 80	0.8
<a href="#">V299sLWI.120/...</a>	a	1 x 20 W	2360 lm	3000 K	≥ 80	0.8
<a href="#">V299sLCI.120/...</a>	a	1 x 20 W	2480 lm	4000 K	≥ 80	0.8
<a href="#">V299sLDI.120/...</a>	a	1 x 20 W	2550 lm	5000 K	≥ 80	0.8
<a href="#">V299sLWI.126/...</a>	a	1 x 26 W	3330 lm	3000 K	≥ 80	0.8
<a href="#">V299sLCI.126/...</a>	a	1 x 26 W	3490 lm	4000 K	≥ 80	0.8
<a href="#">V299sLDI.126/...</a>	a	1 x 26 W	3590 lm	5000 K	≥ 80	0.8

### Optional types of reflector

HD / HG / SB / SW

Example of order code assembly: refl. smooth

[V299sLWI.126/HDA3.D3](#)

### Higher colour rendering index (CRI)

M

Example of order code assembly: Ra ≥90

[V299sMWI.126/HDA3.D3](#)

### Dimmable version

A / B / D / T / L / X

Example of order code assembly: dimmable DALI

[V299sLWD.126/HDA3.D3](#)

### Emergency version

N / H / F / G

Example of order code assembly: emergency operation

[V299sLWIN.126/HDA3.D3](#)

### PDF Optional types of acrylic glass



A3 acrylic M3 microprisma

Example of order code assembly:  
acrylic glass - opal

[V299sLWI.126/HDA3.D3](#)

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LED plate

W3

S3

D3

B3



230V-50Hz

# EXPLANATORY NOTES

for order code assembly

1	2	3	4	5	6	7	8	9	10	11			
V	299	s	LW	DN	.	124	A	/	HD	A3	.	W3	B

1	MOUNTING CATEGORY			2	PRODUCT CODE		3	CONFIGURATION OF LIGHT FITTING					
V	recessed	L	track	299	type marking of light fitting		s	control gear on cable (part of l. fitting)					
S	ceiling	Z	pendant	014	type marking of insert		c	control gear in luminaire (part of l. fitting)					
N	wall	C	insert of fitting	etc.			a	control gear in adapter (part of l. fitting)					
F	floor						r	control gear in rosette (part of l. fitting)					
							-	without control gear					
4	TYPE OF LIGHT SOURCE (SOCKET)												
Q0	LED PAR16 (GU10)			E2	LED A60, A65 (E27)		E2	LED PAR20, 30, 38 (E27)					
4a	TYPE OF LED LIGHT SOURCE			4b	CHROMATICITY OF LED SOURCE		4b	SPECTRUM OF LED SOURCE					
A	LED COIN 111 COB, COIN 111 AC Ra >80			I	warm white "interna" (2700 K)		R	spectrum for meat and sausages					
B	LED COIN 111 COB Ra >90			W	warm white (3000 K)		Y	spectrum for pastry, delicatessen and cheese					
F	LED COIN 50 COB Ra >80			B	white (3500 K)		F	spectrum for fish					
G	LED COIN 50 COB Ra >90			C	cool white (4000 K)		Z	spectrum for fruits and vegetables					
N	LED COIN 35 COB Ra >80			D	daylight white (5000 K)		A	spectrum for art (Ra>97)					
P	LED COIN 35 COB Ra >90			S	cool daylight (6500 K)		V	spectrum for clothing, fashion					
L	LED panel Ra >80			K	tunable white - commercial (2700 K-6500 K)		P	spectrum for plant growth					
M	LED panel Ra >90			T	dim to warm (dimming to warm chroma.)								
C	LED COB Ra >80												
D	LED COB Ra >90												
H	LED COB Ra >97												
5	TYPE OF CONTROL GEAR							6	NUMBER AND OUTPUT OF LIGHT SOURCE				
BASIC CONFIGURATION				EMERGENCY CONFIGURATION				NUMBER OF SOURCES, POWER OF FITTING					
I	non-dimmable constant current driver			N	emergency 1h		108	1 x 8 W					
U	non-dimmable constant voltage driver			H	emergency 3h		114	1 x 14 W					
A	dimnable analog 1-10V			F	emergency 1h with autotest		229	2 x 29 W					
D	dimnable DALI			G	emergency 3h with autotest		337	3 x 37 W					
S	dimnable DSI			Z	electronic address module		443	4 x 43 W					
C	dimnable with CORRIDOR function			P	central battery system								
T	dimnable using button 230V												
W	dimnable using push-button on luminaire												
L	phase dimmable												
X	dimmable Tunable white DALI												
B	dimmable Casambi (Bluetooth)												
7	TYPE OF REFLECTOR							TYPE OF DIFFUSER					
SP	spot - beam angle 10-20°			MDG	medium - beam angle 21-34° (gold)		HD	smooth divided					
MD	medium - beam angle 21-34°			FLG	flood - beam angle 35-49° (gold)		HG	powder coated gold (G1)					
FL	flood - beam angle 35-49°			HU	smooth UGR < 19		SB	powder coated black sand (B3)					
WF	wideflood - beam angle ≥ 50°			MU	matt UGR < 19		SW	powder coated white sand (W3)					
							xx	optional RAL colour					
8	TYPE OF COVER GLASS / FILTER							COLOUR OF COIN COB COVER RING					
T1	tempered glass - clear			F4	blue filter		B	black					
T3	tempered glass - opal			F5	red filter		W	white					
A1	acrylic glass - clear			F6	green filter								
A3	acrylic glass - opal			F8	orange filter								
M1	acrylic micropisma - clear			FH	honeycomb louvre								
M3	acrylic micropisma - opal			F9	linear spread lens*								
					* for use with SP/MD reflector only								
9	COLOUR AND FINISH			10	SPECIAL VERSION								
W3	white sand interior/exterior			B	for assembly in concrete housing								
S3	silver sand interior			F	for assembly in facade insulation								
B3	black sand interior/exterior			KRP	for assembly in lamella ceilings								
D3	anthracite sand dark interior/exterior			P	for assembly in sheet metal ceilings								
S9	silver sand interior/exterior												
xx	optional RAL colour												