



ENG 45
CO., LTD.

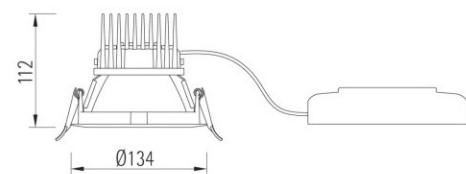
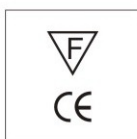
BMW 120i



LED Downlight

- Direction adjustable downlight with LED technique for various lighting tasks
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions
- Technology: With Zhaga lighting engine with high lumen efficiency
- CRI more than 80; UGR is less than 22. High efficient LED
- Life time above 30,000 hours, customizing LED chip and driver is available
- On request also available as dimming version
- Colour: white





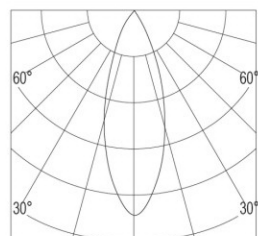
LED Downlight

4-Inch LED Downlight with Fixed Direction

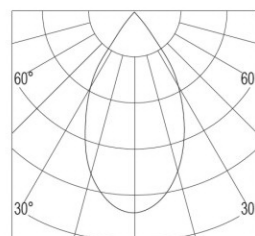
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
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- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

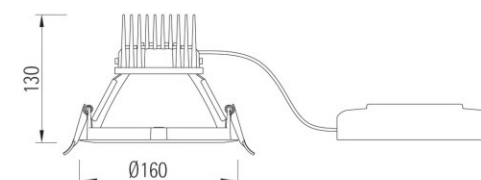
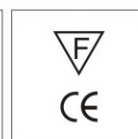
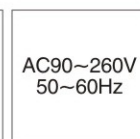
Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD420/12	AC90~260V 50~60Hz		12W		3000K 4000K	>80	1200Lm	36°/56° Ø134x112mm	Ø126mm	Include External Driver	Passive
VLD420/16	AC90~260V 50~60Hz		16W		3000K 4000K	>80	1600Lm	36°/56° Ø134x112mm	Ø126mm	Include External Driver	Passive
VLD420/20	AC90~260V 50~60Hz		20W		3000K 4000K	>80	2000Lm	36°/56° Ø134x112mm	Ø126mm	Include External Driver	Passive



h(m)	E(lx)	D(m)
1	955	0.83
2	239	1.66
3	106	2.49
4	60	3.31
5	38	4.14



h(m)	E(lx)	D(m)
1	404	1.27
2	101	2.55
3	45	3.82
4	25	5.10
5	16	6.37



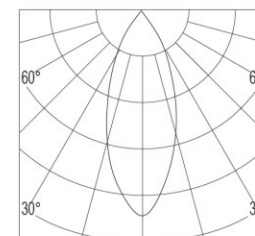
LED Downlight

5-Inch LED Downlight with Fixed Direction

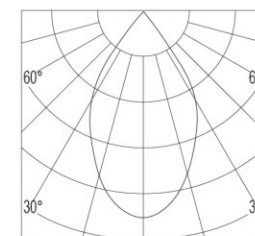
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD520/12	AC90~260V 50~60Hz		12W		3000K 4000K	>80	1200Lm	36°/60° Ø134x112mm	Ø126mm	Include External Driver	Passive
VLD520/16	AC90~260V 50~60Hz		16W		3000K 4000K	>80	1600Lm	36°/60° Ø134x112mm	Ø126mm	Include External Driver	Passive
VLD520/20	AC90~260V 50~60Hz		20W		3000K 4000K	>80	2000Lm	36°/60° Ø134x112mm	Ø126mm	Include External Driver	Passive



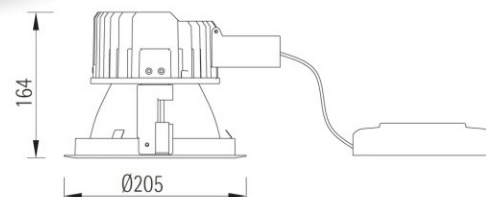
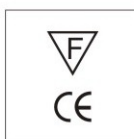
h(m)	E(lx)	D(m)
1	955	0.83
2	239	1.66
3	106	2.49
4	60	3.31
5	38	4.14



h(m)	E(lx)	D(m)
1	404	1.27
2	101	2.55
3	45	3.82
4	25	5.10
5	16	6.37



AC90~260V
50~60Hz

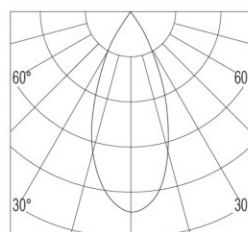


LED Downlight 6-Inch LED Downlight with Fixed Direction

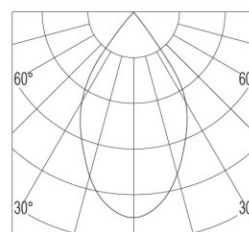
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD620/18	AC90~260V 50~60Hz		18W		>80	1800Lm	45°/60°	Ø205x164mm		Include External Driver	Passive
VLD620/25	AC90~260V 50~60Hz		25W		>80	2500Lm	45°/60°	Ø205x164mm		Include External Driver	Passive
VLD620/35	AC90~260V 50~60Hz		35W		>80	3500Lm	45°/60°	Ø205x164mm		Include External Driver	Passive



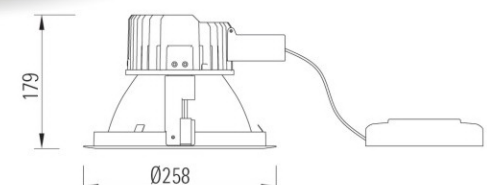
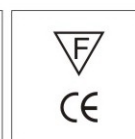
h(m)	E(lx)	D(m)
		45°
1	2026	0.83
2	506	1.66
3	225	2.49
4	127	3.31
5	81	4.14



h(m)	E(lx)	D(m)
		60°
1	856	1.27
2	214	2.55
3	95	3.82
4	54	5.10
5	34	6.37



AC90~260V
50~60Hz

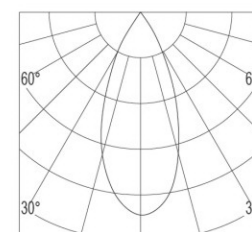


LED Downlight 8-Inch LED Downlight with Fixed Direction

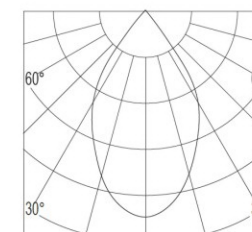
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Adjustable for different ceiling thickness
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling

- Energy saving, no UV and thermal emissions
- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

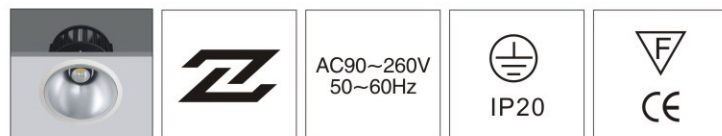
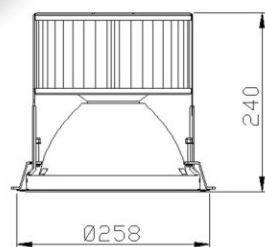
Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD820/25	AC90~260V 50~60Hz		25W		>80	2500Lm	45°/60°	Ø258x179mm		Include External Driver	Passive
VLD820/35	AC90~260V 50~60Hz		35W		>80	3500Lm	45°/60°	Ø258x179mm		Include External Driver	Passive
VLD820/40	AC90~260V 50~60Hz		40W		>80	4000Lm	45°/60°	Ø258x179mm		Include External Driver	Passive



h(m)	E(lx)	D(m)
		45°
1	2026	0.83
2	506	1.66
3	225	2.49
4	127	3.31
5	81	4.14



h(m)	E(lx)	D(m)
		60°
1	856	1.27
2	214	2.55
3	95	3.82
4	54	5.10
5	34	6.37

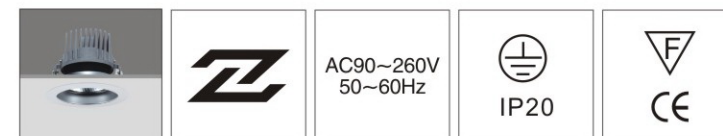
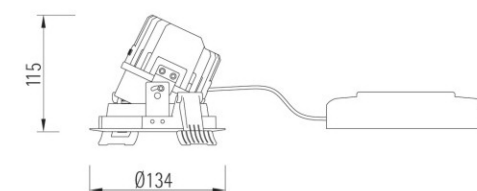
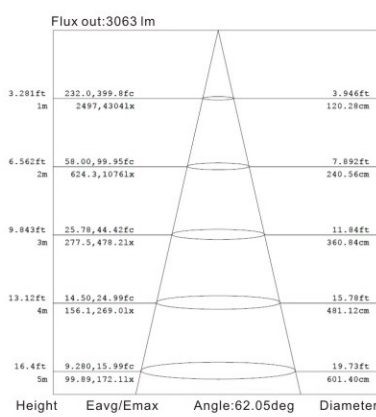
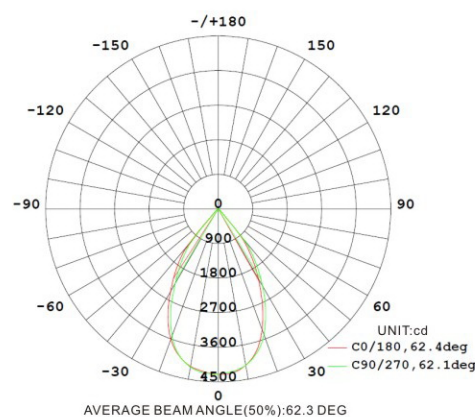


LED Downlight 8-Inch LED Downlight with Fixed Direction

- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Adjustable for different ceiling thickness
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling

- Energy saving, no UV and thermal emissions
- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power	CRI	Luminous Flux of LED	Product Dimension	Power Supply	Cooling
VLD821/60	AC90~260V 50~60Hz	CREE COB	60W	3000K 4000K	>80	6000Lm	24°/36° Ø134x112mm Ø126mm	Include External Driver Passive
VLD821/70	AC90~260V 50~60Hz	CREE COB	70W	3000K 4000K	>80	7000Lm	24°/36° Ø134x112mm Ø126mm	Include External Driver Passive

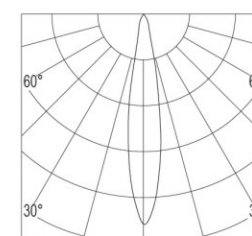


LED Downlight 4-Inch LED Downlight with Direction Adjustable

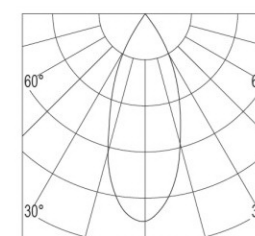
- Direction adjustable downlight with LED technique for various lighting tasks
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
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- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power	CRI	Luminous Flux of LED	Product Dimension	Power Supply	Cooling
VLD440/12	AC90~260V 50~60Hz	CREE COB	12W	3000K 4000K	>80	1200Lm	24°/36° Ø134x112mm Ø126mm	Include External Driver Passive
VLD440/16	AC90~260V 50~60Hz	CREE COB	16W	3000K 4000K	>80	1600Lm	24°/36° Ø134x112mm Ø126mm	Include External Driver Passive
VLD440/20	AC90~260V 50~60Hz	CREE COB	20W	3000K 4000K	>80	2000Lm	24°/36° Ø134x112mm Ø126mm	Include External Driver Passive



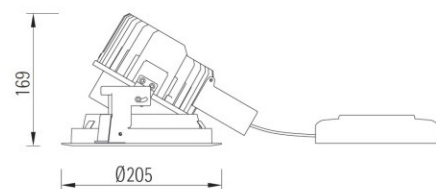
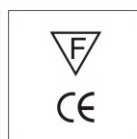
h(m)	E(lx)	D(m)
1	4018	0.43
2	1004	0.85
3	446	1.28
4	251	1.70
5	161	2.13



h(m)	E(lx)	D(m)
1	1719	0.65
2	430	1.30
3	191	1.95
4	107	2.60
5	69	3.25



AC90~260V
50~60Hz



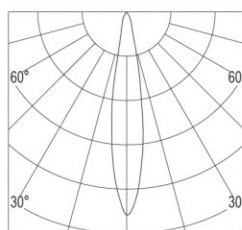
LED Downlight

6-Inch LED Downlight with Direction Adjustable

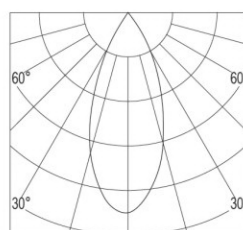
- Direction adjustable downlight with LED technique for various lighting tasks
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD640/18	AC90~260V 50~60Hz		18W		3000K 4000K	>80	1800Lm	24°/40° Ø205x169mm	Ø185mm	Include External Driver	Passive
VLD640/25	AC90~260V 50~60Hz		25W		3000K 4000K	>80	2500Lm	24°/40° Ø205x169mm	Ø185mm	Include External Driver	Passive
VLD640/35	AC90~260V 50~60Hz		35W		3000K 4000K	>80	3500Lm	24°/40° Ø205x169mm	Ø185mm	Include External Driver	Passive



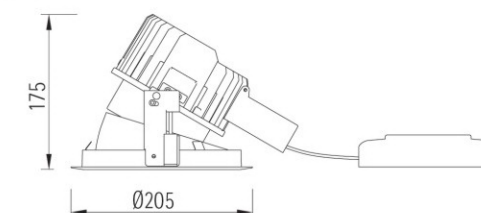
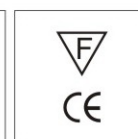
h(m)	E(lx)	D(m)
1	7693	0.43
2	1923	0.85
3	855	1.28
4	481	1.70
5	308	2.13



h(m)	E(lx)	D(m)
1	2624	0.73
2	656	1.46
3	292	2.18
4	164	2.91
5	105	3.64



AC90~260V
50~60Hz



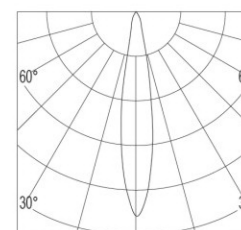
LED Downlight

6-Inch LED Wall Washing Downlight with Direction Adjustable

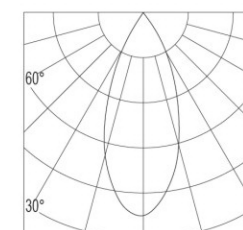
- Direction adjustable downlight with LED technique for various lighting tasks
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- Tool-free installation and maintenance
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- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
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- On request also available as dimming version.
- Colour: white

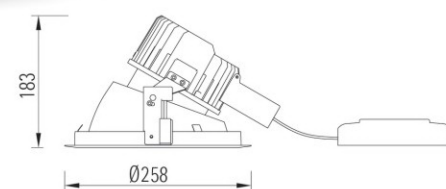
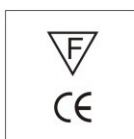
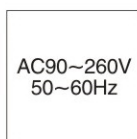
Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD610/18	AC90~260V 50~60Hz		18W		3000K 4000K	>80	1800Lm	24°/40° Ø205x175mm	Ø185mm	Include External Driver	Passive
VLD610/25	AC90~260V 50~60Hz		25W		3000K 4000K	>80	2500Lm	24°/40° Ø205x175mm	Ø185mm	Include External Driver	Passive
VLD610/35	AC90~260V 50~60Hz		35W		3000K 4000K	>80	3500Lm	24°/40° Ø205x175mm	Ø185mm	Include External Driver	Passive



h(m)	E(lx)	D(m)
1	7693	0.43
2	1923	0.85
3	855	1.28
4	481	1.70
5	308	2.13



h(m)	E(lx)	D(m)
1	2624	0.73
2	656	1.46
3	292	2.18
4	164	2.91
5	105	3.64









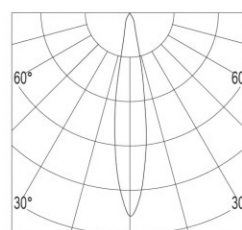
LED Downlight

8-Inch LED Wall Washing Downlight with Direction Adjustable

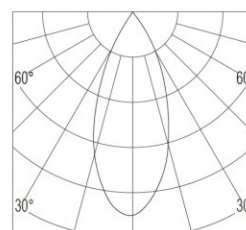
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- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
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- On request also available as dimming version.
- Colour: white

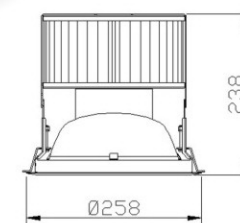
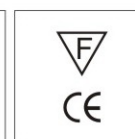
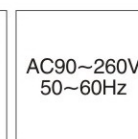
Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD810/25	AC90~260V 50~60Hz		25W	3000K 4000K	>80	2500Lm	24°/40°	Ø258x183mm	Ø236mm	Include External Driver	Passive
VLD810/35	AC90~260V 50~60Hz		35W	3000K 4000K	>80	3500Lm	24°/40°	Ø258x183mm	Ø236mm	Include External Driver	Passive
VLD810/40	AC90~260V 50~60Hz		40W	3000K 4000K	>80	4000Lm	24°/40°	Ø258x183mm	Ø236mm	Include External Driver	Passive



h(m)	E(lx)	D(m)
		24°
1	7693	0.43
2	1923	0.85
3	855	1.28
4	481	1.70
5	308	2.13



h(m)	E(lx)	D(m)
		40°
1	2624	0.73
2	656	1.46
3	292	2.18
4	164	2.91
5	105	3.64








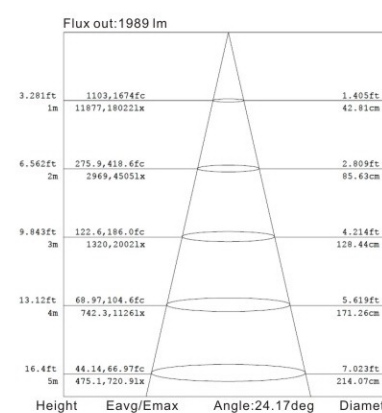
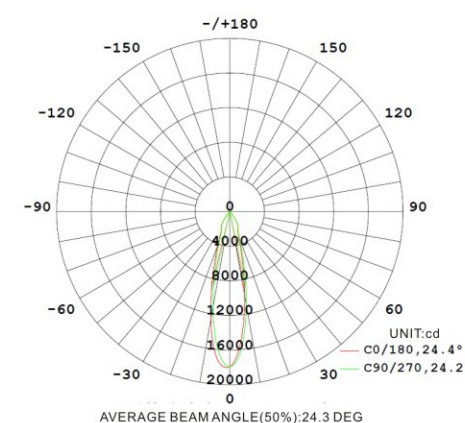
LED Downlight

8-Inch LED Wall Washing Downlight with Direction Adjustable

- Direction adjustable downlight with LED technique for various lighting tasks
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

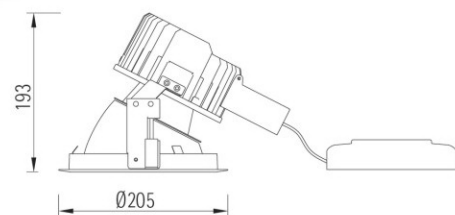
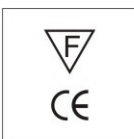
- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power		CRI	Luminous Flux of LED		Product Dimension		Power Supply	Cooling
VLD811/60	AC90~260V 50~60Hz	 CREE COB	60W	3000K 4000K	>80	6000Lm	24°/40°	Ø258x238mm	Ø236mm	Include External Driver	Passive
VLD811/70	AC90~260V 50~60Hz	 CREE COB	70W	3000K 4000K	>80	7000Lm	24°/40°	Ø258x238mm	Ø236mm	Include External Driver	Passive





AC90~260V
50~60Hz








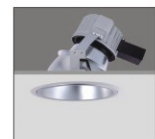
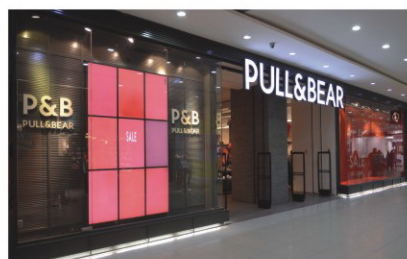
LED Downlight

6-Inch LED Wall Washing Downlight with Fixed Direction

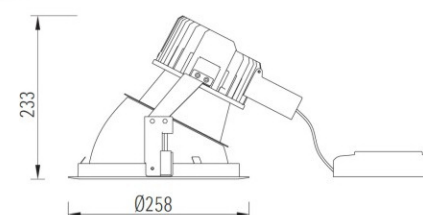
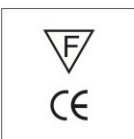
- Fixed Direction wall washing downlight with LED technique for various lighting tasks
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power		CRI	Lumenious Flux of LED	Product Dimension		Power Supply	Cooling
VLD610/18	AC90~260V 50~60Hz	 CREE COB	18W	3000K 4000K	>80	1800Lm	Ø205x193mm	Ø185mm	Include External Driver	Passive
VLD610/25	AC90~260V 50~60Hz	 CREE COB	25W	3000K 4000K	>80	2500Lm	Ø205x193mm	Ø185mm	Include External Driver	Passive
VLD610/35	AC90~260V 50~60Hz	 CREE COB	35W	3000K 4000K	>80	3500Lm	Ø205x193mm	Ø185mm	Include External Driver	Passive



AC90~260V
50~60Hz








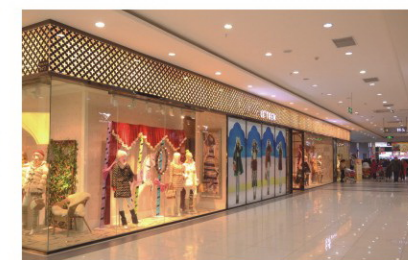
LED Downlight

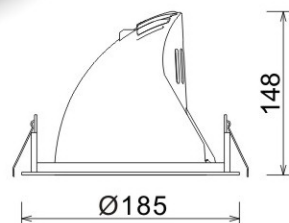
8-Inch LED Wall Washing Downlight with Fixed Direction

- Fixed Direction wall washing downlight with LED technique for various lighting tasks
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power		CRI	Lumenious Flux of LED	Product Dimension		Power Supply	Cooling
VLD810/25	AC90~260V 50~60Hz	 CREE COB	25W	3000K 4000K	>80	2500Lm	Ø258x233mm	Ø236mm	Include External Driver	Passive
VLD810/35	AC90~260V 50~60Hz	 CREE COB	35W	3000K 4000K	>80	3500Lm	Ø258x233mm	Ø236mm	Include External Driver	Passive
VLD810/40	AC90~260V 50~60Hz	 CREE COB	40W	3000K 4000K	>80	4000Lm	Ø258x233mm	Ø236mm	Include External Driver	Passive



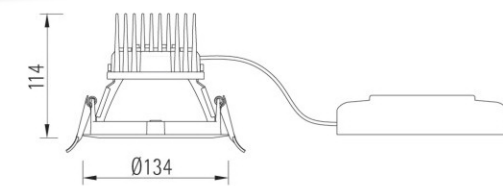
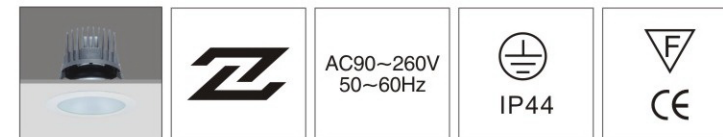
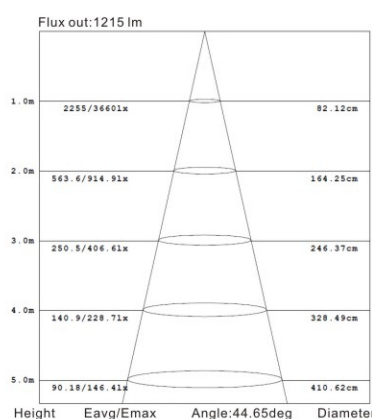
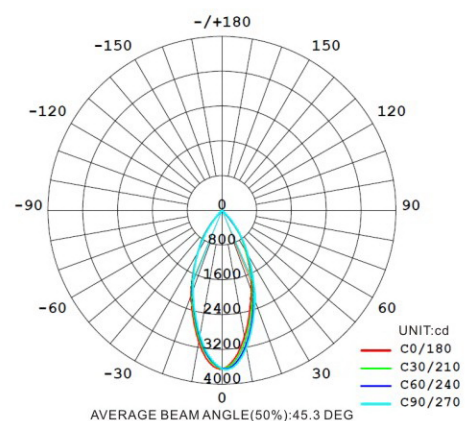


LED Downlight 90 Degree Rotate LED Wall Washing Downlight

- High-quality recessed spotlight with round design for product display at salesroom walls
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Tool-free installation and maintenance
- Light head made from die-cast aluminium for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power	CRI	Luminous Flux of LED	Product Dimension	Power Supply	Cooling
VLD631/18	AC90~260V 50~60Hz	CREE COB	18W	3000K 4000K	>80	1800Lm	45° Ø185x148mm Ø175mm	Include External Driver Passive
VLD631/25	AC90~260V 50~60Hz	CREE COB	25W	3000K 4000K	>80	2500Lm	45° Ø185x148mm Ø175mm	Include External Driver Passive

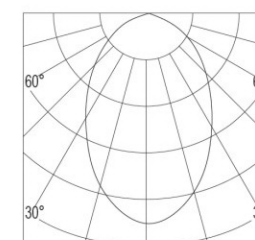


LED Downlight 4-Inch LED Downlight with IP44

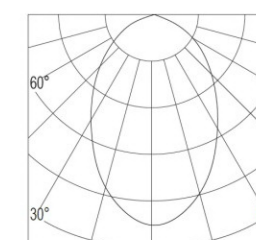
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

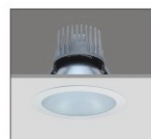
Model	Voltage	LED Chip	Power	CRI	Luminous Flux of LED	Product Dimension	Power Supply	Cooling
VLD430/12	AC90~260V 50~60Hz	CREE COB	12W	3000K 4000K	>80	1200Lm	45°/70° Ø134x112mm Ø126mm	Include External Driver Passive
VLD430/16	AC90~260V 50~60Hz	CREE COB	16W	3000K 4000K	>80	1600Lm	45°/70° Ø134x112mm Ø126mm	Include External Driver Passive
VLD430/20	AC90~260V 50~60Hz	CREE COB	20W	3000K 4000K	>80	2000Lm	45°/70° Ø134x112mm Ø126mm	Include External Driver Passive



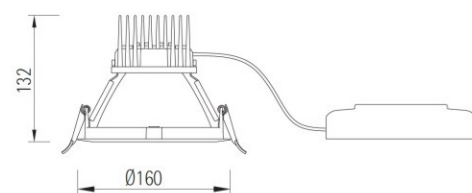
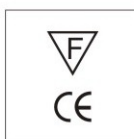
h(m)	E(lx)	D(m)
1	334	1.40
2	84	2.80
3	37	4.20
4	21	5.60
5	13	7.00



h(m)	E(lx)	D(m)
1	370	1.40
2	93	2.80
3	41	4.20
4	23	5.60
5	15	7.00



AC90~260V
50~60Hz









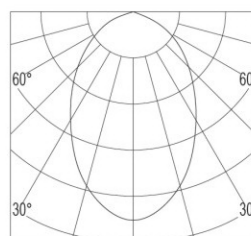
LED Downlight

5-Inch LED Downlight with IP44

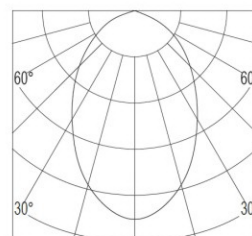
- High-quality aluminium reflector maximum luminous efficiency and glare-free lighting
- Recessed downlight with LED technique for various lighting tasks
- Tool-free installation and maintenance
- Die-casting aluminum heat sink for thermal management of passive cooling
- Energy saving, no UV and thermal emissions

- Technology: With Zhaga lighting engine with high lumen efficiency;
- CRI more than 80; UGR is less than 22. High efficient LED.
- Life time above 30,000 hours,customizing LED chip and driver is available.
- On request also available as dimming version.
- Colour: white

Model	Voltage	LED Chip	Power	 CRI	Luminous Flux of LED	 Product Dimension	 Power Supply	Cooling
VLD530/12	AC90~260V 50~60Hz	 CREE COB	12W	3000K 4000K	>80	1200Lm 45°/70° Ø160x132mm Ø151mm	Include External Driver	Passive
VLD530/16	AC90~260V 50~60Hz	 CREE COB	16W	3000K 4000K	>80	1600Lm 45°/70° Ø160x132mm Ø151mm	Include External Driver	Passive
VLD530/20	AC90~260V 50~60Hz	 CREE COB	20W	3000K 4000K	>80	2000Lm 45°/70° Ø160x132mm Ø151mm	Include External Driver	Passive



h(m)	E(lx)	D(m)
		70°
1	278	1.53
2	70	3.07
3	31	4.60
4	17	6.14
5	11	7.67



h(m)	E(lx)	D(m)
		70°
1	308	1.53
2	77	3.07
3	34	4.60
4	19	6.14
5	12	7.67

