

LED Downlight Datasheet

8 products in this range. Specifications as published on wellking-led.com.

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Retrofit and adjustable LED downlight with focused beam output, designed for direct replacement in existing fixtures without rewiring or fixture replacement. The downlight uses CREE COB LED chips for high luminous efficiency and precise beam control, suitable for accent lighting on walls, artworks, and architectural details. Available in die-casting aluminum housing with white or black+white trim, with beam angles of 15°, 24°, 36°, and 50°, and colour temperatures from 2700K to 6000K. Supports AC100-240V input with power factor 0.6 for 3-6W and 0.9 for >7W, and is certified to CE, RoHS, FCC, SAA, and PSE.

Adjustable and Retrofit Led Downlight WK-RE-C-XW

An adjustable retrofit LED downlight designed for direct, focused illumination in accent lighting applications such as walls, artworks, and decorative features. The light output is directed through small round holes to achieve strong beam concentration, with a tilting range of 30 degrees and 360-degree rotation for precise beam positioning. Constructed from die-casting aluminum with a white finish, it fits into existing recessed fixtures without requiring a full replacement. Operates on AC100-240V with high luminous efficiency, low power consumption, and flicker-free output. Available in 3-6W, 6-10W, and 10-12W models with multiple beam angles and color temperatures, and supports non-dimmable, triac dim, DALI dim, and 0-10V dim control options. Certified to CE, RoHS, FCC, SAA, and PSE standards.

Parameter	Value
Model	WK-RE-C-XW
Power	3-6W / 6-10W / 10-12W
Input voltage	AC100-240V
LED type	CREE COB
Beam angle	15° / 24° / 36° / 50°
Color temperature	2700K / 3000K / 4000K / 6000K
CRI (Ra)	>80 / >90
Light efficacy	95 lm/W
Power factor	0.6 (3-6W), 0.9 (>7W)
Tilting angle	30°
Rotating angle	360°
Operating temperature	-20°C ~ +40°C
Lifespan	>50,000H (L90, Tc=55°C)
IP grade	IP20
Warranty	3 years
Size	φ65*80mm (open:55mm) / φ85*85mm (open:75mm) / φ85*100mm (open:75mm)

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/adjustable-and-retrofit-led-downlight-2.html>

Adjustable and Retrofit Led Wall Wash Downlight

A retrofit LED wall wash downlight with adjustable beam angle and full rotation, designed to replace existing fixtures without rewiring or structural changes. The die-casting aluminum housing provides thermal stability and mechanical strength, while the CREE COB LED delivers high luminous efficiency and consistent light output. Beam angles of 15°, 24°, 36° or 50° allow precise control over the spread of light on walls, and the 30° tilting and 360° rotating mechanism enables targeted illumination of architectural features, artwork or signage. Operates on AC100-240V with power factors of 0.6 for 3-6W and 0.9 for over 7W. Certified to CE, RoHS, FCC, SAA and PSE. Available in four power ranges: 5-7W,

7-10W, 10-15W and 12-18W, with matching sizes and open depths for flush mounting in standard ceiling cutouts.

Parameter	Value
LED type	CREE COB
Model number	WK-RE-B-XW
Input voltage	AC100-240V
Power factor	0.6 (3-6W), 0.9 (>7W)
Light efficacy	95 lm/W
Beam angle	15° / 24° / 36° / 50°
CCT	2700K / 3000K / 4000K / 6000K
CRI	>80 / 90
Tilting angle	30°
Rotating angle	360°
IP grade	IP20
Operating temperature	-20°C ~ +40°C
Lifespan	>50,000H (L90, Tc=55°C)
Warranty	3 years
Control function	Non-dim / Triac dim / DALI dim / 0-10V dim

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/adjustable-and-retrofit-led-wall-wash-downlight.html>

Adjustable and Retrofit Led Downlight WK-RE-A-XW

A retrofit LED downlight designed to replace existing fixtures without rewiring or fixture replacement. The unit mounts directly into standard ceiling cutouts, with a tilting range of 30 degrees and 360-degree rotation for beam direction control. Uses CREE COB LED chips for high luminous efficiency and consistent light output. Available in 3-18W power options with multiple beam angles and colour temperatures. Rated for indoor use with IP20 protection, suitable for residential, commercial and office environments where maintenance access is limited. Operates on AC100-240V with multiple dimming options including Triac, 0-10V, DALI and non-dimming. Delivers flicker-free, even illumination with high CRI and long lifespan.

Parameter	Value
Model number	WK-RE-A-XW
LED type	CREE COB
Input voltage	AC 100-240V
Power range	3-5W, 5-9W, 6-8W, 8-10W, 11-13W, 12-18W
Power factor	0.6 (3-6W), 0.9 (>7W)
Light efficacy	95 lm/W
Beam angle	24° / 36° / 40° / 50° / 60°
Colour temperature	2700K / 3000K / 4000K / 6000K
CRI (Ra)	>80 / >90
Tilting angle	30°
Rotating angle	360°
IP grade	IP20
Operating temperature	-20°C ~ +40°C
Lifespan	>50,000H (L90, Tc=55°C)
Warranty	3 years

Control function	Non-dim / Triac dim / 0-10V dim / DALI dim
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Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/adjustable-and-retrofit-led-downlight.html>

Recessed Anti-glare COB Downlight 3W

A recessed-mounted LED downlight with a compact aluminum housing and COB light source designed for clean, glare-free ambient lighting in residential, commercial and office environments. The anti-glare shield reduces direct visibility of the LED chip, delivering soft, uniform illumination without harsh brightness. The 3W power rating and 15° beam angle focus light precisely where needed, ideal for task lighting or accenting architectural features. Built for indoor use with IP20 protection, it operates across a wide voltage range and supports multiple dimming methods. Certified to CE, RoHS, FCC, SAA and PSE standards, it is mercury-free and emits no UV or IR radiation. Available in 2700K, 3000K, 4000K and 6000K colour temperatures with CRI above 80 or 90.

Parameter	Value
Model number	WK-DL-A1-3
Power	3W
Input voltage	AC100-240V
LED type	CREE COB
Colour temperature	2700K / 3000K / 4000K / 6000K
CRI (Ra)	>80 / >90
Beam angle	15°
Power factor	>0.5
Light efficacy	90 lm/W
Lifespan	>50,000H (L90, Tc=55°C)
IP grade	IP20
Operating temperature	-20°C ~ +40°C
Dimming function	Non-dim / Triac / DALI / 0-10V
Size	φ40*29mm (open: 35mm)
Warranty	3 years
Certifications	CE, RoHS, FCC, SAA, PSE

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/recessed-anti-glare-cob-downlight-3w.html>

Recessed Adjustable LED Ceiling Spot 360° Rotation

A recessed adjustable LED ceiling spot with 360-degree rotation, designed for precise beam direction in architectural and commercial spaces where lighting must be repositioned after installation. The die-casting aluminum housing provides thermal stability and long-term reliability. The CREE COB LED delivers a focused beam with accurate illumination, available in 24° or 60° beam angles. Anti-glare optics reduce eye strain, and the unit operates on AC100-240V with multiple dimming options. Certified to CE, RoHS, FCC, SAA, and PSE, it is mercury-free and emits no UV or IR radiation. Available in 5W and 7W models with white or black finish, and rated for indoor use with IP20 protection.

Parameter	Value
Model	WK-CL-A43-5W / WK-CL-A43-7W
Power	5W (PF 0.6) / 7W (PF 0.9)
Input voltage	AC 100-240V
LED type	CREE COB

Light efficacy	95 lm/W
Beam angle	24° / 60°
CCT	2700K / 3000K / 4000K / 6000K
CRI	>80 / >90
Tilting angle	360°
Rotating angle	360°
IP grade	IP20
Operating temperature	-20°C ~ +40°C
Lifespan	>50,000H (L90, Tc=55°C)
Warranty	3 years
Size	φ88*33mm (5W), φ108*35mm (7W)

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/360-rotation-led-ceiling-spot-5w-7w.html>

Recessed Anti-glare SMD Downlight

A recessed embedded downlight with anti-glare structure designed for ceiling installations where a clean, modern look and uniform soft light are required. The die-casting aluminum housing provides thermal stability and long-term reliability, while the Samsung 2835 SMD LEDs deliver consistent output with no flicker or dark spots. Available in 5W to 15W models with a 120-degree beam angle, it supports multiple dimming methods including Triac, DALI, 0-10V, and non-dim versions. Rated for indoor use with IP20, it operates across a wide voltage range from AC100V to 240V and is certified to CE, RoHS, FCC, SAA, and PSE. The compact size and flush mounting allow for seamless integration into ceilings without protruding fixtures.

Parameter	Value
Model	WK-DL-5 / WK-DL-7 / WK-DL-10 / WK-DL-15
Power	5W / 7W / 10W / 15W
Input voltage	AC100-240V
Power factor	>0.9
Light efficacy	95 lm/W
LED type	Samsung 2835 SMD
CCT	2700K / 3000K / 4000K / 6000K
CRI	>80 / >90
Beam angle	120°
SDCM	<3
Dimming function	Non-dim / Triac dim / DALI dim / 0-10V dim
IP grade	IP20
Operating temperature	-20°C ~ +40°C
Lifespan	>50,000H (L90, Tc=55°C)
Warranty	3 years
Size	φ60*40mm / φ80*40mm / φ90*40mm / φ100*40mm
Open height	55mm / 75mm / 85mm / 95mm

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/anti-glare-led-downlight-wk-dl-xx.html>

Recessed Anti-glare COB Downlight

A recessed-mounted LED downlight with anti-glare optics and a COB light source designed for clean, uniform illumination in residential, commercial and office interiors. The die-casting aluminum housing provides thermal stability and long-term reliability, while the anti-glare shield ensures soft, comfortable light without direct glare. The CREE COB chip delivers high efficacy and consistent beam output across multiple beam angles. Available in 6W, 10W and 20W models with 2700K, 3000K, 4000K and 6000K colour temperatures, and multiple dimming options including Triac, 0-10V, DALI and non-dimming. Certified to CE, RoHS, FCC, SAA and PSE, it operates on AC100-240V with a power factor above 0.9 and a lifespan exceeding 50,000 hours at 55°C. The compact size and flush mounting allow for a clean, unobtrusive installation in ceilings.

Parameter	Value
Model number	WK-DL-A-6 / WK-DL-A-10 / WK-DL-A-20
Power	6W / 10W / 20W
Input voltage	AC 100-240V
Power factor	>0.9
LED type	CREE COB
Colour temperature	2700K / 3000K / 4000K / 6000K
CRI	>80 / 90
Beam angle	15° / 24° / 38°
SDCM	<3
Lifespan	>50,000H (L90, Tc=55°C)
IP grade	IP20
Operating temperature	-20°C ~ +40°C
Warranty	3 years
Dimensions	φ68*63mm (6W), φ85*80mm (10W), φ105*95mm (20W)
Housing material	Die-casting aluminum
Finish	White / Black (Silver / Black / Gold reflector)

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/anti-glare-led-cob-downlight-wk-dl-a-xx.html>

Surface Mounted LED COB Downlight

A surface-mounted LED downlight designed for quick installation without ceiling drilling or structural modification. The die-casting aluminum housing provides stable thermal management and long-term reliability. Available in 10W to 40W models with a compact footprint from φ90mm to φ195mm, it fits residential and commercial interiors. Uses CREE COB LED chips with high efficacy of 95 lm/W and a power factor above 0.9. Offers multiple dimming options including non-dim, triac, DALI, and 0-10V. Optical design minimizes glare, and the unit is rated IP20 or IP65 depending on the model. Certified to CE, RoHS, FCC, SAA, and PSE. Suitable for dry and wet locations with operating temperature range from -20°C to +40°C.

Parameter	Value
Model	WK-DL-S-10W / 15W / 20W / 30W / 40W
Power	10W, 15W, 20W, 30W, 40W
Input voltage	AC 100-240V
LED type	CREE COB
Light efficacy	95 lm/W
Power factor	>0.9
CCT	2700K / 3000K / 4000K / 6000K

CRI	>80 / >90
Beam angle	24° / 45°
SDCM	<3
Dimming function	Non-dim / Triac / DALI / 0-10V
IP grade	IP20 / IP65
Operating temperature	-20°C ~ +40°C
Lifespan	>50,000H (L90, Tc=55°C)
Warranty	3 years
Size	φ90×90mm / φ110×120mm / φ130×135mm / φ170×185mm / φ195×195mm
Housing material	Die-casting aluminum
Finish	White / Black

Certifications stated on datasheet: CE, RoHS, FCC, SAA, PSE

Web page: <https://wellking-led.com/products/surface-mounted-led-downlight-wk-dl-m-xx.html>