



- Premium quality downlights for use in the office, retail, leisure & hospitality industries
- Unique, rapid installation system includes removable faceplate & 3-point brace deployment - faceplate colour options
- CE, RoHS, & TUV international product marks
- The most competitive, high-end solution for projects worldwide



Wilson Series *Premium Downlight*

CDN:SPEC38REV8

Technical Specifications Summary



Performance Summary:

Code (Series-Wattage/Size)	WIL-10A	WIL-15A	WIL-10B	WIL-15B	WIL-15C	WIL-20C	WIL-25C
Nominal Power	10W	15W	10W	15W	15W	20W	25W
Luminaire Efficacy @ CRI>80, 4000K CCT	120lm/W	106lm/W	121lm/W	106lm/W	111lm/W	102lm/W	98lm/W
Lumen Output @ CRI>80, 4000K CCT	1,200lm	1,590lm	1,210lm	1,590lm	1,665lm	2,040lm	2,450lm
Lumen Maintenance (TM21 Reported)	L80B50 ≥50,000 hours						
Certification	CE, RoHS, TUV						
Product Warranty	5 Years						

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Samsung S4
Light Emission	Direct
CCT	4000K (3000K, 5000K, 6000K optional)
CRI	≥80Ra, (≥90Ra optional)
SDCM	<6
Diffusers	Frosted
Symmetric Light Distribution	90°

Electrical Parameters:

System Operating Power	10W	15W	20W	20W	30W	40W	30W
Driver Brand	Lifud						
Input Voltage	220-240VAC						
Input Frequency	50-60Hz						
Qty of Drivers per Light	1						
Power Factor	>0.9						
THD	<15% (220-240VAC)						
Insulation Class	II						

Environmental Parameters:

IP Rating	IP42
Ambient Usage Tolerance	-20°C to 40°C
Ambient Storage Tolerance	-30°C to 50°C
Ambient Humidity Tolerance	10% to 90% RH

Physical/Mechanical Parameters:

Product Dimensions: (Ø ² x H) (mm)	145 x 69	145 x 69	190 x 86	190 x 86	230 x 99	230 x 99	230 x 99
Cutout (ø) (mm)	125-130	125-135	165-170	165-170	200-220	200-220	200-220
Electrical Connection	125mm Cable						
Fixture Weight ³	0.60kg	0.60kg	0.95kg	0.95kg	1.40kg	1.40kg	1.40kg
Fixture Primary Material(s)	Aluminium Alloy						
Fixture Finish	Painted						
Lens(es) Materials	UV Stabilised Polycarbonate						



◀ Technical Specifications Summary

Code (Series-Wattage/Size)	WIL-10A	WIL-10B	WIL-15A	WIL-15B	WIL-15C	WIL-20C	WIL-25C
Options/Accessories:							
Mounting Styles	Surface mounted						
Miscellaneous Accessories	Emergency Pack (Remote Test, Self Test)						
Available Product Colours	White						

¹ Electrical Parameter data is for D1 drivers, unless otherwise stated

² Outer diameter of front face

³ Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

All stated values should be considered indicative only. Technical data is provided from sample luminaires and construction components as assessed by OEM(s) under industry-standard, laboratory conditions. In practice, stated values can vary. Kellwood Lighting operates a policy of continual product improvement. Our luminaires' capabilities are regularly enhanced to outperform in-class market alternatives. Please contact our technical team directly for clarifications prior to purchase. All images depicted should be considered indicative only. Stated product warranty periods do not include associated labour costs. Stated product warranty periods are for UK projects only. For international projects, please contact our offices directly. Optional upgrades can often affect or supersede unit technical parameters, capabilities, and warranties. It is the responsibility of the purchasing authority to ensure selected hardware is suitable for application. For further documentation, including Returns Policy and Conditions of Unit Failure, please contact our offices. Hazardous area documentation (eg. ATEX) are issued to OEM codes. WEEE compliance reference code: WEE/MP3838PR/SCH. Please do not look directly at LED lighting products during operation.

This datasheet & corresponding certification should be reviewed by a competent person to ensure project suitability.

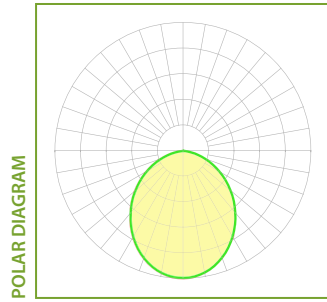
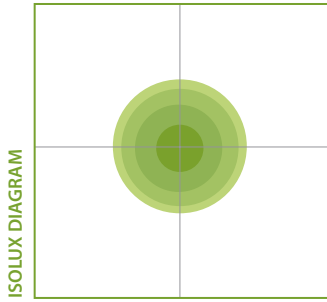
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Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

◀ Indicative Product Photometry

90° Optic ▶▶



Diffusers ▶▶

This series is available with the following diffusers. Each diffuser will have a varying effect on photometric distribution and intensity. Please refer to downloadable photometrics for exact data.

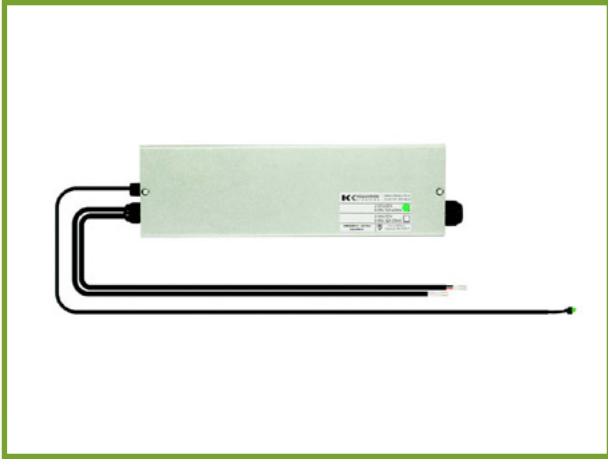


Frosted Cover

Images are illustrative of diffuser type only and not necessarily taken from this product series

Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

Emergency Options



Emergency Packs

Premium plug and play, rapid installation option, available in remote-test, self-test and DALI variants. Incorporates luminaire driver, emergency switch electronics and battery.

Emergency LED indicator light bush and deep discharge protection included.

Emergency Output	≥ 3hrs @ 2.5W
Ingress Protection	IP54
Size	IP20: 300 x 90 x 42mm IP54: 222 x 146 x 55mm
Warranty	3 Years
Battery Type	NiCd
Mains Supply	230-240VAC @ 50/60Hz
Mains Input Terminal	1.0mm ² to 2.5mm ²
Max Ta and Tc	Ta 50°C, Tc 70°C
Max Battery Temperature	NiCd 55°C



Emergency Kits

Available in remote-test, self-test and DALI variants. Compact design and incorporated strain relief allows installation as individual components in a ceiling cavity.

Emergency LED indicator light bush and deep discharge protection included.

Emergency Output	≥ 3hrs @ 2.5W
Ingress Protection	IP20
Size	Fits through 45mm aperture
Warranty	3 Years
Battery Type	NiCd or LiFePO ₄
Mains Supply	230-240VAC @ 50/60Hz
Mains Input Terminal	1.0mm ² to 2.5mm ²
Max Ta and Tc	Ta 50°C, Tc 70°C
Max Battery Temperature	NiCd 55°C LiFePO ₄ 60°C

LiFePO₄

Some emergency products are available with Lithium Iron Phosphate (LiFePO₄) batteries.

The two main advantages over traditional emergency lighting batteries are:

- Double the operational life
- Extremely low self discharge and power consumption under use. E.g. standby power of a Nickel Cadmium (NiCd) battery is 5W, whereas our equivalent LiFePO₄ battery would be 1.5W



Standard product code fields are presented as:

Further customisation may be available - please contact us if required



PRODUCT	POWER & SIZE	CRI & CCT	DRIVER
WIL	10A 10W, 125mm CUTOUT Ø	830 CRI >80, 3000K	D1 NON-DIM
	10B 10W, 165mm CUTOUT Ø	840 CRI >80, 4000K	D4 1-10V
	15A 15W, 125mm CUTOUT Ø	850 CRI >80, 5000K	D3 DALI
	15B 15W, 165mm CUTOUT Ø	860 CRI >80, 6000K	
	15C 15W, 200mm CUTOUT Ø	930 CRI >90, 3000K	
	20C 20W, 200mm CUTOUT Ø	940 CRI >90, 4000K	
	25C 25W, 200mm CUTOUT Ø	950 CRI >90, 5000K	
		960 CRI >90, 6000K	

Product Ordering Code Examples:

WIL-10A-830-D1

WIL-25C-950-D3

Emergency Ordering Code Examples:

WIL-E3R3A-15-D2

WIL-E3S3B-25-D1-IP65

Product Ordering Codes

DRIVER MANUFACTURER			
POWER	D1	D4	D3
10A 10W, 125mm CUTOUT Ø	Lifud	Euchips	Osram
10B 10W, 165mm CUTOUT Ø	Lifud	Euchips	Osram
15A 15W, 125mm CUTOUT Ø	Lifud	Euchips	Lifud
15B 15W, 165mm CUTOUT Ø	Lifud	Euchips	Lifud
15C 15W, 200mm CUTOUT Ø	Lifud	Euchips	Lifud
20C 20W, 200mm CUTOUT Ø	Lifud	Euchips	Lifud

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

GENERAL NOTES:

- IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
- PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY
- PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH "...+(MODIFICATION)"
- ALTERNATIVE DRIVERS MAY BE AVAILABLE - PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS
- IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED AS NECESSARY

PRODUCT	POWER & SIZE	POWER	DRIVER	ENCLOSURE
WIL	E3R3A 3HR MAINTAINED EMERGENCY, REMOTE TEST, SINGLE CELL LiFePO4 BATTERY	10 10W	D1 NON-DIM	"BLANK" ASSEMBLED KIT (NO ENCLOSURE)
	E3S3A 3HR MAINTAINED EMERGENCY, SELF-TEST, SINGLE CELL LiFePO4 BATTERY	15 15W	D2 1-10V	IP20 IP20 RATED ENCLOSURE
	E3S3B 3HR MAINTAINED EMERGENCY, SELF-TEST, TWIN CELL LiFePO4 BATTERY	20 20W	D3 DALI	IP65 IP65 RATED ENCLOSURE
		25 25W		

NOTE: 2017 Product Code Updates

This product series previously used codes starting with LED/DL-WIL/... Please contact us if you require further information on corresponding codes.
CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

