

10W-50W family power range - 3", 4", 6", & 8" product diameters - 100-240VAC input - Water-proofed IP65 luminaire & power supply - Choice of accent halos for architectural applications & personalisation - Quick-install design -Recessed light source offers low-glare performance - Non-integrated intelligent control options available

**CE & RoHS** international product marks

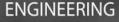


## Whitelaw Series

# Universal IP65 Downlights & Spot Lights

CDN:SPEC108REV9













## Technical Specifications Summary







WHI-10D   WHI-15A   WHI-20A   WHI-20B   WHI-30B   WHI-40B   WHI-30C   WHI-40C   WHI-30P   WHI-30P   WHI-30P   WHI-30P   WHI-30P   WHI-30P   WHI-40P   WHI-30P   WHI-40P   WHI-30P   WHI-40P   WHI-40P   WHI-40P   WHI-40P   WHI-40P   30W   40W   50W   40W   50W   40W   50W   50W   50W   50W   50W   85Im/W   8
ninaire Efficacy @ CRI>80, 3000K CCT 71 lm/W 88 lm/W 78 lm/W 84 lm/W 81 lm/W 85 lm/W 85 lm/W 87 lm/W 85 lm/W
nen Output ⊕ CRI>80, 3000K CCT 710lm 1,320lm 1,560lm 1,680lm 2,430lm 3,400lm 2,550lm 3,480lm 4,20    nen Maintenance (TM21 Reported)
tification  CE, RoHS  duct Warranty  ght Source and Photometric Parameters:  p Brand, Model, & Size  L70B50 ≥50,000 hours @ 25°C  CE, RoHS  3 Years  Samsung 2835 / Lumileds 2835
tification CE, RoHS duct Warranty 3 Years ght Source and Photometric Parameters: p Brand, Model, & Size Samsung 2835 / Lumileds 2835
duct Warranty 3 Years  ght Source and Photometric Parameters:  p Brand, Model, & Size Samsung 2835 / Lumileds 2835
ght Source and Photometric Parameters:  p Brand, Model, & Size  Samsung 2835 / Lumileds 2835
p Brand, Model, & Size Samsung 2835 / Lumileds 2835
•
ht Emmission Direct
T 4000K (2700K, 3000K, 5000K, 6500K Optional)
≥80Ra, (≥90Ra optional)
CM <3
<b>fusers</b> Frosted
nmetric Light Distribution 90° (10-40W), 70° (50W)
oical UGR¹ <21
ectrical Parameters:
stem Operating Power         10W         15W         20W         20W         30W         40W         30W         40W         5
ver Brand Hongke
out Voltage 100-240VAC
out Frequency 50-60Hz
y of Drivers per Light 1
wer Factor >0.9
COM (100-277VAC)
ulation Class II
nvironmental Parameters:
Rating IP65
Rating IK05
abient Usage Tolerance -20°C to 40°C
nbient Storage Tolerance -30°C to 60°C
nbient Storage Tolerance     -30°C to 60°C       nbient Humidity Tolerance     15% to 90% RH
hbient Humidity Tolerance 15% to 90% RH  hysical/Mechanical Parameters:  oduct Dimensions: (ز x H) (mm) 103 x 58 144 x 71 144 x 71 183 x 80 183 x 80 226 x 96 226 x 96 226
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hysical/Mechanical Parameters:  bduct Dimensions: (ز x H) (mm)





## **Technical Specifications Summary**

Code (Series-Wattage/Size)	WHI-30D	WHI-15A	WHI-20A	WHI-20B	WHI-30B	WHI-40B	WHI-30C	WHI-40C	WHI-50C
Options/Accessories:									
Mounting Styles	Surface mounted, cable suspended								
Miscellaneous Accessories	Emergency Pack (Remote Test, Self Test)								
Available Product Colours	White, Black, Silver								

<sup>&</sup>lt;sup>1</sup> Electrical Parameter data is for D1 drivers, unless otherwise stated

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. ©2020 Kellwood Engineering Ltd. All rights reserved.

<sup>&</sup>lt;sup>2</sup> Outer diameter of front face

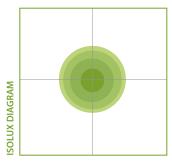
<sup>&</sup>lt;sup>3</sup> Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

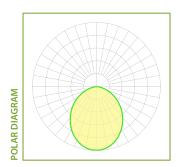


Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

## 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.



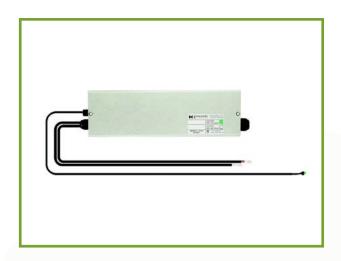
Images are illustrative of diffuser type only and not necessarily taken from this product series

Frosted Cover

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



### **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 status indicator light bush (IP20 variant) and deep discharge protection included.

IP65 - LED status indicator is mounted on enclosure. Suitable for applications where there is maintenance access from above.

IP20 - LED status indicator is supplied on an umbilical cord complete with mounting bush.

<b>Emergency Output</b>	≥ 3hrs @ 2.5W
Ingress Protection	IP65
Size	IP20: 300 x 90 x 42mm
	IP65: 222 x 146 x 110mm
Warranty	3 Years
Battery Type	NiCd
Mains Supply	230-240VAC @ 50/60Hz
Mains Input Terminal	1.0mm <sup>2</sup> to 2.5mm <sup>2</sup>
Max Ta and Tc	Ta 50℃, Tc 70℃
Max Battery Temperature	NiCd 55°C

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#### **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.

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



### LiFePO<sub>4</sub>

Some emergency products are available with Lithium Iron Phosphate ( $LiFePO_4$ ) 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 LiFePO<sub>4</sub> battery would be 1.5W



Standard product code fields are presented as: Further customisation may be available - please contact us if required



# Product Ordering Codes

PRODUCT -	POWER & SIZE •	CRI & CCT	– OPTIC –	- DRIVER -	COLOUR	MODIFICATIONS
WHI	<b>10D</b> 10W, 90-95MM (CUT-OUT Ø)	<b>827</b> CRI>80, 2700K	<b>70¹</b> 70º Circular	D1 NON-DIM	WH WHITE	<b>DE</b> REMOTE IP65 DRIVER ENCLOSURE
	<b>15A</b> 15W, 125-135MM (CUT-OUT Ø)	<b>830</b> CRI >80, 3000K	<b>90</b> 1 90° Circular	<b>D2<sup>2</sup></b> 1-10V DIM	<b>BL</b> BLACK	
	<b>20A</b> 20W, 125-135MM (CUT-OUT Ø)	<b>840</b> CRI >80, 4000K		D3 <sup>2</sup> DALI	<b>SI</b> SILVER	
	<b>20B</b> 20W, 160-175MM (CUT-OUT Ø)	<b>850</b> CRI >80, 5000K		<b>D4</b> NON-DIM - 25-42 VDC INPUT		
	<b>30B</b> 30W, 160-175MM (CUT-OUT Ø)	<b>865</b> CRI >80, 6500K		<b>D5</b> DALI		
	<b>40B</b> 40W, 160-175MM (CUT-OUT Ø)			<b>D7</b> NON-DIM		
	<b>30C</b> 30W, 200-215MM (CUT-OUT Ø)			D8 <sup>2</sup> Triac-dimming		
	<b>40C</b> 40W, 200-215MM (CUT-OUT Ø)					

<sup>&</sup>lt;sup>1</sup> The 50C version is only available with 70° optic. 10D-40C versions are only available with 90° optic.

GENERAL NOTES:

1. IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE

2. PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY

3. PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH ..."+(MODIFICATION)"

4. ALTERNATIVE DRIVERS MAY BE AVAILABLE - PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS

5. IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED AS NECESSARY

# Product Ordering Code Examples: WHI-20B-865-90-D1 WHI-50C-840-70-D1

**50C** 50W, 200-215MM (CUT-OUT Ø)

Emergency Ordering Code Examples: *WHI-E3R2-30-D1* 

DRIVER MANUFACTURER								
POWER	D1	D2	D3	D4	D5	D7	D8	
<b>10D</b> 10W, 90-95MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>15A</b> 15W, 125-13SMM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>20A</b> 20W, 125-135MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>20B</b> 20W, 160-175MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>30B</b> 30W, 160-175MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>40B</b> 40W, 160-175MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>30C</b> 30W, 200-215MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>40C</b> 40W, 200-215MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	
<b>50C</b> 50W, 200-215MM (CUT-OUT Ø)	Hongke	Euchips	Euchips	Hongke	Boke	Chipmap	Boke	

ACCESSORIES	
WHI-E3R2-"POWER"-"DRIVER" 3HR MAINTAINED EMERGENCY PACK - REMOTE TEST - IP65	
WHI-E3S2-"POWER"-"DRIVER" 3HR MAINTAINED EMERGENCY PACK - SELF TEST - IP65	
WHI-E3R2-"POWER"-"DRIVER"-IP20 3HR MAINTAINED EMERGENCY PACK - REMOTE TEST - IP20	
WHI-E3S2-"POWER"-"DRIVER"-IP20 3HR MAINTAINED EMERGENCY PACK - SELF TEST - IP20	

<sup>&</sup>lt;sup>2</sup>Driver is IP20