

Whitegoods Book 2020

User Guide

This user guide reveals the interactive features of the Whitegoods Book 2020, which make it simple and fast to use, easy to navigate and find all the relevant information you need about our products, including:

- Project examples
- Application guides
- Product details
- Design guides

You can download the interactive PDF of the Whitegoods Book 2020 [here](#)



Whitegoods Book 2020

Structure of the Book

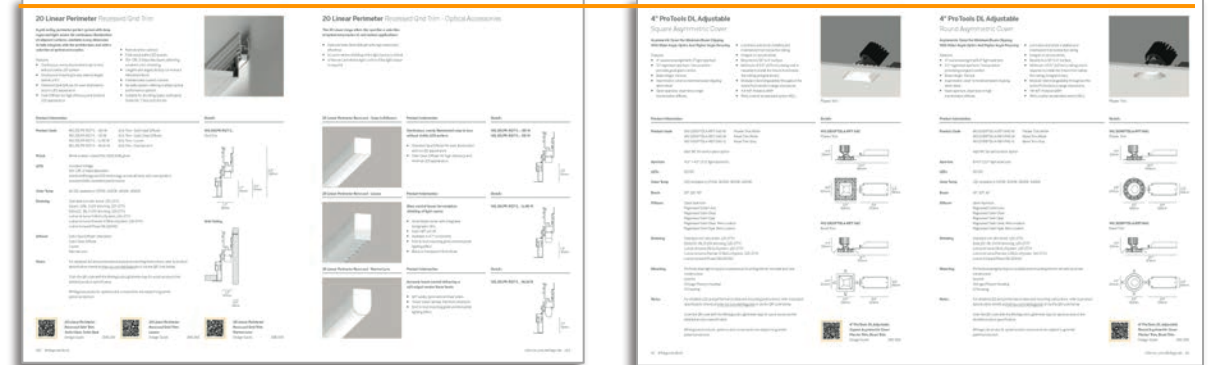
The Whitegoods Book is comprised of three sections:

- **Application Guide:**
Includes information about lighting theory, project examples, and specific product applications including installation typical diagrams.
- **Product Details:**
The key information about each product, including dimensions, performance characteristics, available mounting options, lensing and accessories.
- **Design Guide:**
Key performance data for Whitegoods luminaires, as well as expected light levels in typical scenarios, based on set parameters. The results are a handy reference to help the specifier plan a project quickly, efficiently and with confidence.

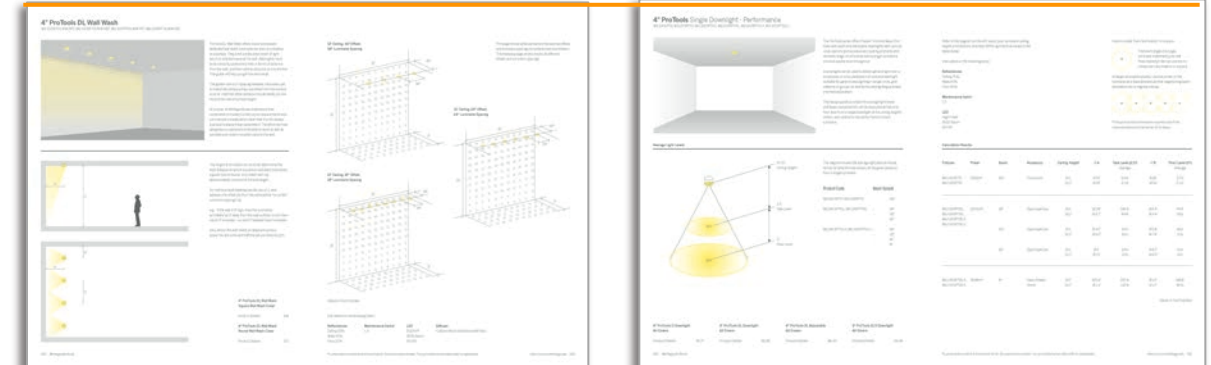
Application Guide pages



Product Details pages



Design Guide pages

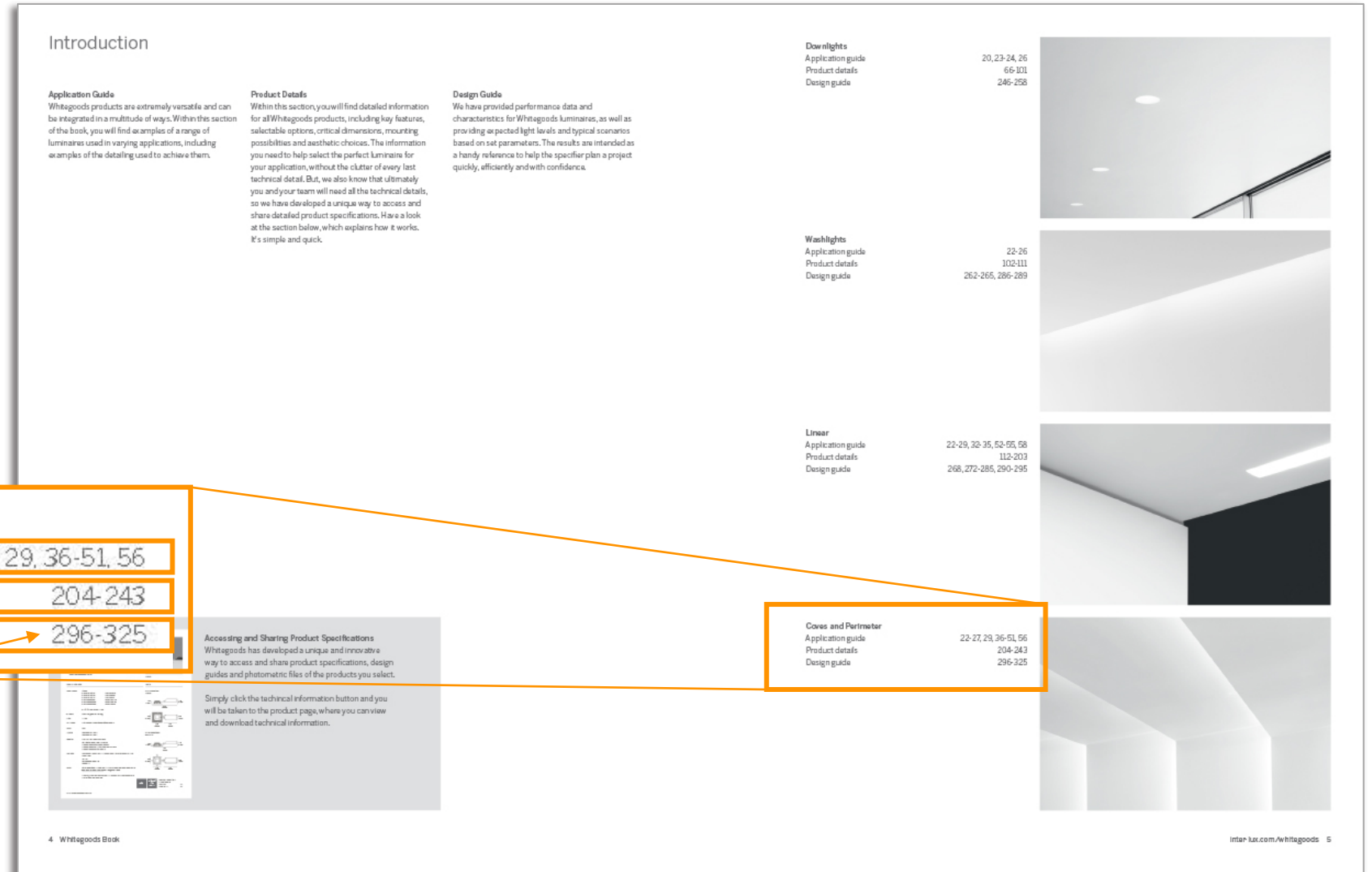


Product Group Introduction

Products are grouped relative to their function:

- Downlights
- Washlights
- Linear
- Coves and Perimeter

Under the title of each product group are three links. Click a link to jump directly to the section you need for that product type.



e.g. click anywhere here to go directly to the Design Guide pages for Coves and Perimeter products

Contents Pages

All items on the Contents Pages are dynamically linked to the Product Page of each fixture listed, and any relevant Design Guide pages.



4" ProTools DL Adjustable Square Cone Cover

Product details88

Design guide250-253

Click here to go directly to the Product Details page



4" ProTools DL Adjustable Square Cone Cover

Product details88

Design guide250-253

Click here to go to relevant Design Guide pages

Fixed Downlights			Adjustable Downlights		
60		100	100		
	2.4" General Downlight Round Flush Diffuser Product details Design guide	70 248-249, 254-257		4" ProTools D Downlight Square Flush Diffuser Product details Design guide	76 250-253, 258
	2.4" General Downlight Round Regressed Cone Product details Design guide	71 246-249		4" ProTools D Downlight Round Flush Diffuser Product details Design guide	77 250-253, 258
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				4" ProTools DLX Downlight Square Cone Cover Product details Design guide	94 250-253
				4" ProTools DLX Downlight Round Cone Cover Product details Design guide	95 250-253
				4" ProTools DLX Downlight Square Regressed Cover Product details Design guide	96 250-253
				4" ProTools DLX Downlight Round Regressed Cover Product details Design guide	97 250-253
				4" ProTools DLX Downlight Square Asymmetric Cover Product details Design guide	98 250-253
				4" ProTools DLX Downlight Round Asymmetric Cover Product details Design guide	99 250-253

Application Guide

The Whitegoods Book is designed to help specifiers select the right lighting tools for their project, regardless of expertise.

It begins with a step by step guide to various ways to use light within a space. Each suggestions includes a tip and clickable links directly to relevant pages

Tip

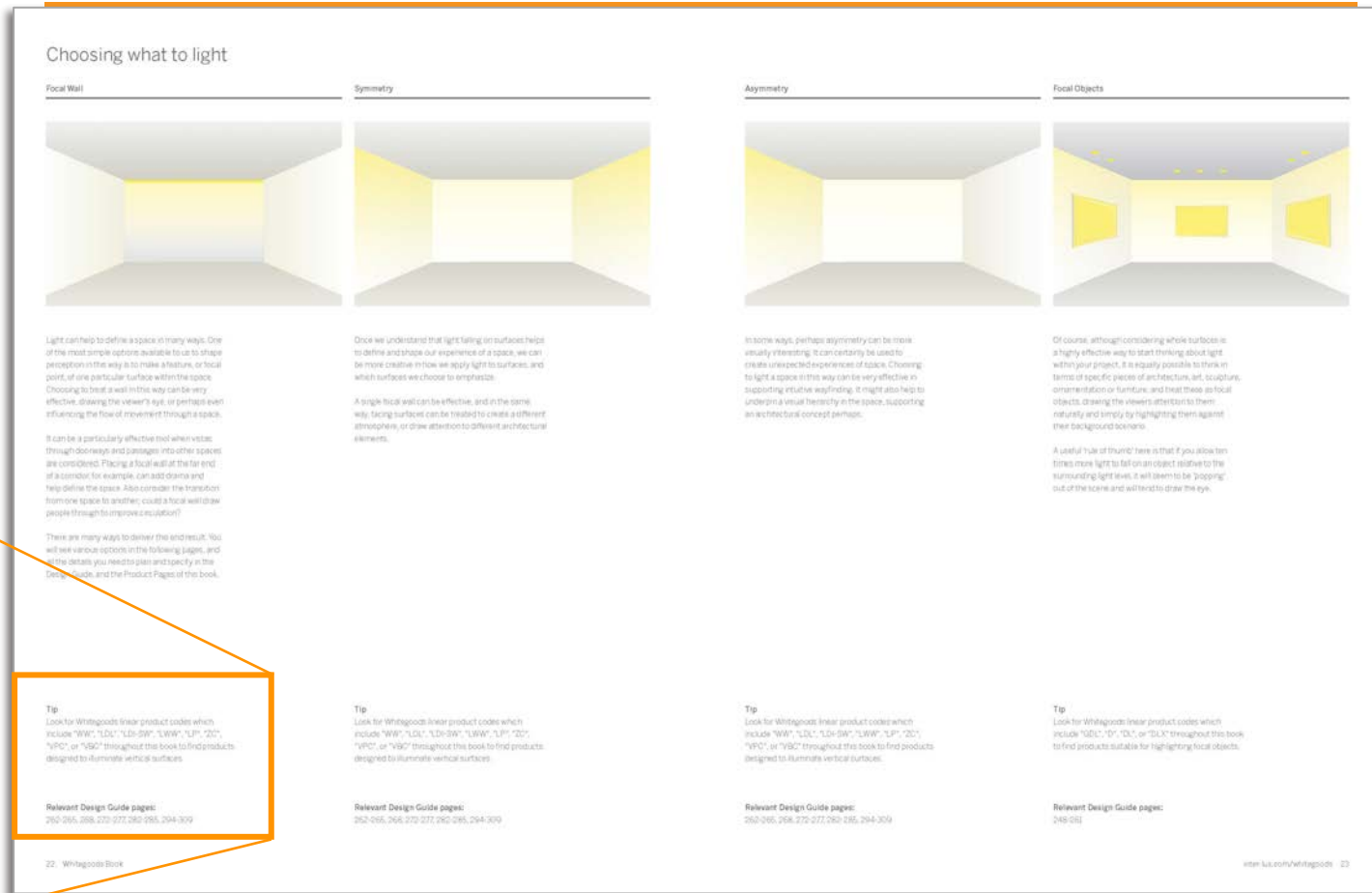
Look for Whitegoods linear product codes which include "WW", "LDL", "LDI-SW", "LWW", "LP", "ZC", "VPC", or "VBC" throughout this book to find products designed to illuminate vertical surfaces.

Relevant Design Guide pages:

262-265, 268, 272-277, 282-285, 294-309

[Click here to go to relevant Design Guide pages](#)

Application Guide pages

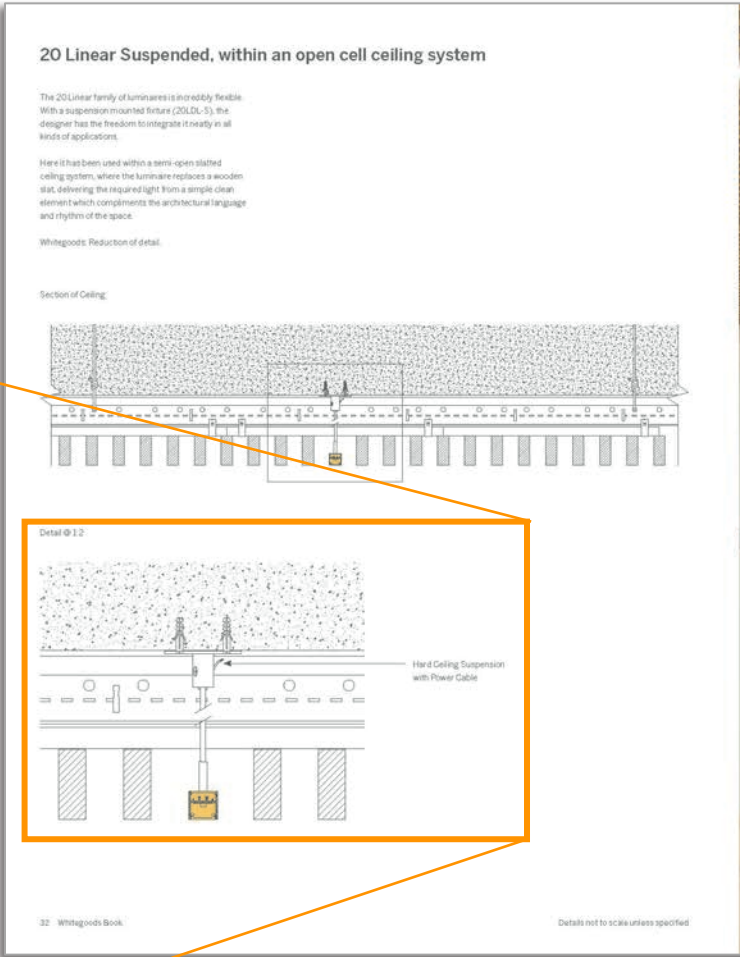
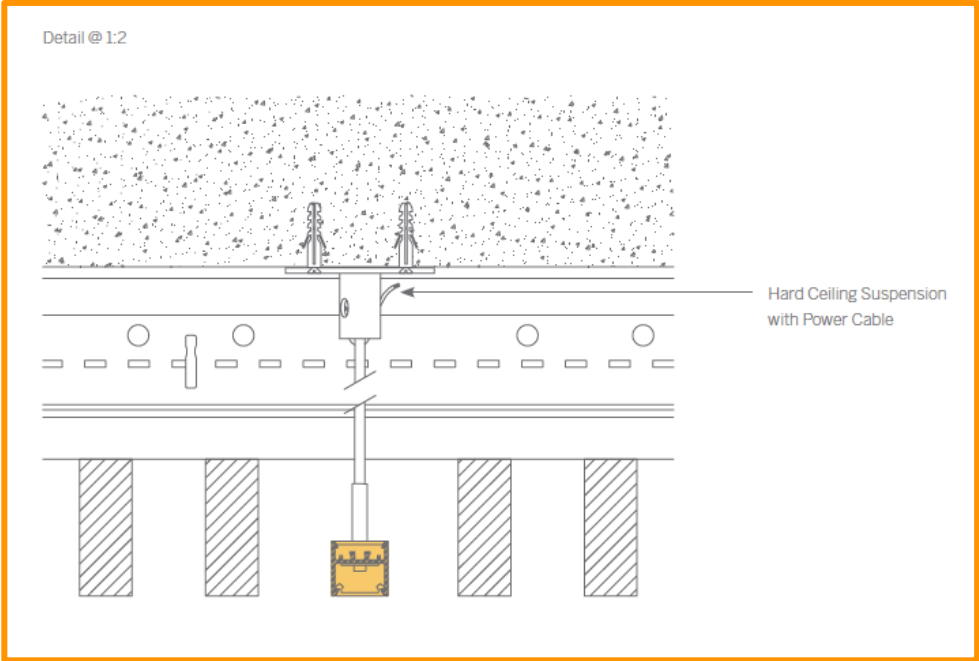


Application Examples

As well as guidance on planning the type and position of lighting products, you will also find specific examples of real product applications within the Application Guide.

Each example shows a different method of integration, with relevant descriptions and detail drawings.

Application Guide pages



Product Details

Product Details pages of the Whitegoods Book carry all the information the specifier needs in order to make their product selection, organized in a logical format.

- 1. Product description, key features and picture.
- 2. Detailed product information and options including:
 - Base product codes
 - Color finish
 - LED characteristics
 - Dimming options
 - Diffusers and accessories
- 3. Dimension drawings.
- 4. Standard configurations and product codes.
- 5. Clickable links:

to the product page on Inter-lux.com

to relevant Design Guide pages

index

technical information

20 Linear Surface Mount

Design Guide 268, 272-277

Product Details Pages

20 Linear Surface

Slim yet powerful surface mounted continuous luminaire delivering light for accent as well as functional illumination of a space with even light from a spot-free lens

Features

- Very shallow depth: 0.7"
- Continuous snap-in Satin Opal Diffuser for even illumination without visible LED pattern.
- Continuous mounting to any desired length (within 1/8")
- Mounts via invisible clip to any surface, tool-less mounting to grid ceilings, magnetic and adjustable bracket mounting.

Remote driver options.

- Field replaceable LED boards.
- 90+ CRI, 3 Steps MacAdam delivering excellent color rendering.
- Lengths and angles factory-cut to exact field dimensions.
- Standard and custom corners.
- Configurations may include straight, angles and changes in elevation such as wall-to-ceiling applications.

Product Information

Product Code	WG 20LDL-SM-...-OD-W	Satin Opal Diffuser
	WG 20LDL-SM-...-SD-W	Satin Clear Diffuser
	WG 20LDL-SMA90-...-OD-W	Satin Opal Diffuser
	WG 20LDL-SMA90-...-SD-W	Satin Clear Diffuser
	WG 20LDL-SMA380-...-OD-W	Satin Opal Diffuser
	WG 20LDL-SMA380-...-SD-W	Satin Clear Diffuser

Finish

White powder coated RAL 9010 30% gloss

LEDs

Constant Voltage

90+ CRI, 3 Steps MacAdam

Identical Whitegoods LED technology across all linear and cove systems ensures 100% consistent performance.

Color Temp

All LED available in 2700K, 3000K, 3500K, 4000K

Dimming

Standard non-dim driver, 120-277V

Osram, 10%, 0-10V dimming, 120-277V

ElkoLED, 1%, 0-10V dimming, 120-277V

Lutron Hi-Lume 0.1% EcoSystem, 120-277V

Lutron Hi-Lume Premier 0.1% EcoSystem, 120-277V

Lutron Forward Phase 1% 120VAC

Diffuser

Satin Opal Diffuser (standard)

Satin Clear Diffuser

Louver

Narrow Lens

Round Opal Diffuser

Details

WG 20LDL-SM-... Surface Mount

WG 20LDL-SMA90-... Surface Mount

WG 20LDL-SMA380-... Surface Mount

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technical information

20 Linear Surface Mount

Design Guide 268, 272-277

20 Linear Surface - Standard Configurations

Whitegoods provides a Linear Configuration page to help with the quick specification of a desired length and shape. Choose a shape and length from the list below and navigate across to the preferred diffuser type to find the product code.

Standard Configurations	Product Code
Linear	
1ft	WG 20LDL-SM-S12-OD-W
2ft	WG 20LDL-SM-S24-OD-W
4ft	WG 20LDL-SM-S48-OD-W
8ft	WG 20LDL-SM-S96-OD-W
Rectangular	
1x2ft	WG 20LDL-SM-P12X24X12K24-OD-W
1x4ft	WG 20LDL-SM-P12X48X12K48-OD-W
2x4ft	WG 20LDL-SM-P24X48X24K48-OD-W
2x8ft	WG 20LDL-SM-P24X96X24K96-OD-W
4x8ft	WG 20LDL-SM-P48X96X48K96-OD-W
Square	
1x1ft	WG 20LDL-SM-P12X12X12K12-OD-W
2x2ft	WG 20LDL-SM-P24X24X24K24-OD-W
4x4ft	WG 20LDL-SM-P48X48X48K48-OD-W
8x8ft	WG 20LDL-SM-P96X96X96K96-OD-W

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Product Accessories

If accessories are available for a product, you can find them explained on the pages immediately following the Product Details page.


1. A summary of the accessories available.
2. Detailed information about each accessory and its potential uses and application, including:
 - Accessory description, key features and picture
 - Color finishes
 - Performance characteristics
 - Any relevant technical details
3. Dimension drawings and Base Product Codes.
4. Standard configurations and Product Codes.

Product Details Pages


20 Linear Surface - Optical Accessories

The 20 Linear range offers the specifier a selection of optical accessories to suit various applications:

- A Louver where shielding of the light source is critical.
- A Narrow Lens where tight control of the light output is required.
- A Round Opal Diffuser where a wide soft spread of light is needed, or if its aesthetic is preferred.



20 Linear Surface Mount - Louver




Product Information

Glam control louver for complete shielding of light source


- Crisp blade louver with integrated holographic film
- Exact 45° out cut
- Available in 4" increments
- End-to-end mounting gives uninterrupted lighting effect
- Black or transparent frost finish

Details

Product Code: WG 20LDL-SM-S...LL-45-W



20 Linear Surface Mount - Narrow Lens




Product Information

Accurate beam control delivering a soft edged narrow linear beam


- 30° axially-symmetrical linear beam
- 'Clear' beam spread: free from striations
- End-to-end mounting gives uninterrupted lighting effect
- Available in 1/4" increments

Details

Product Code: WG 20LDL-SM-S...NL36-W



20 Linear Surface Mount - Round Opal Diffuser




Product Information

Tubular design gives light in all directions, including behind the luminaire.

- 310° distribution
- Delivers a soft, even spread of light
- End-to-end mounting gives uninterrupted lighting effect
- Available in 1/4" increments

Details

Product Code: WG 20LDL-SM-S...ROD-W



20 Linear Surface - Standard Configurations

Whitegoods provides a Linear Configuration page to help with the quick specification of a desired length and shape. Choose a shape and length from the list below and navigate across to the preferred diffuser type to find the product code.

Standard Configurations	Product Code
Linear	
14.5in	WG 20LDL-SM-S14.5-LL-45-W
29.5in	WG 20LDL-SM-S29.5-LL-45-W
47in	WG 20LDL-SM-S47-LL-45-W
94in	WG 20LDL-SM-S94-LL-45-W

Standard Configurations	Product Code
Linear	
18in	WG 20LDL-SM-S12-NL36-W
24in	WG 20LDL-SM-S24-NL36-W
48in	WG 20LDL-SM-S48-NL36-W
96in	WG 20LDL-SM-S96-NL36-W

Standard Configurations	Product Code
Linear	
18in	WG 20LDL-SM-S12-ROD-W
24in	WG 20LDL-SM-S24-ROD-W
48in	WG 20LDL-SM-S48-ROD-W
96in	WG 20LDL-SM-S96-ROD-W

Design Guide

Design Guides provide data and results in different formats depending on the scenario being illustrated, the parameters and the nature of the results.

You will find the same detailed levels of information set out to help the specifier understand the application, and the achievable results when a given metric is altered.

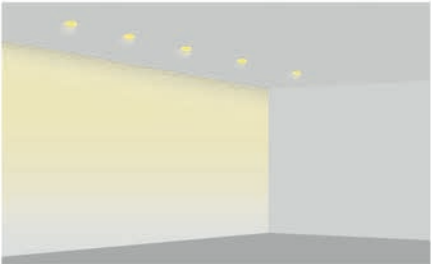
Various luminaire spacings, offsets and mounting heights are given to allow a range of potential options to be quickly reviewed.

Results may be shown in a chart, or as a series of representation diagrams with the metrics and results clearly marked.

All relevant product codes are listed, and will always be an active link back to the relevant Product Details page.

Design Guide Pages

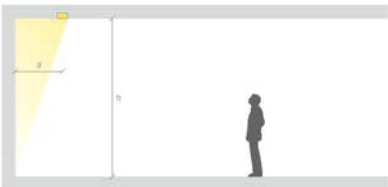
4" ProTools DL Wall Wash
WG 3005PTDLWW-RPT, WG 3005PTDLWW-RBT, WG 3008PTDLWW-RPT, WG 3008PTDLWW-RBT



ProTools DL Wall Wash offers round and square dedicated wall wash luminaires for even illumination of a surface. They emit a wide, even beam of light which is directed towards the wall. Wallagers need to be correctly positioned, both in terms of distance from the wall, and their relative distance to one another. This guide will help you get the best result.

The golden rule is 1:1 spacing between luminaires, set to match the distance they are offset from the surface to be lit. And that offset distance should ideally be one third of the overall surface height.

Of course, at Whitgoods we understand that constraints of modern construction requirements and commercial consideration mean that it is not always practical to apply these parameters. Therefore we have designed our wall wash luminaires to work as well as possible even when mounted close to the wall.

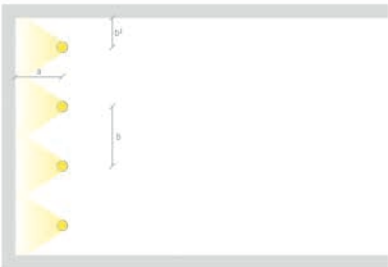


The height of the wall to be lit (H) will determine the best distance at which to position wall wash luminaires. A good 'rule of thumb' is to offset them by approximately one third of the wall height.

For optimum wall washing results use a 1:1 ratio between the offset (A) from the wall and the 'on center' luminaire spacing (B).

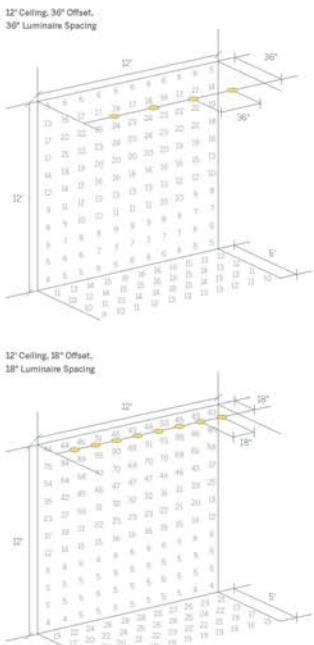
e.g. - if the wall is 9' high, then the luminaires will ideally be 3' away from the wall surface, so set them out at 3' on center - i.e. with 3' between each luminaire.

Also, where the wall meets an adjacent surface, space the last luminaire half the set out distance (B/2).



4" ProTools DL Wall Wash
Square Wall Wash Cover
Product Details 106

4" ProTools DL Wall Wash
Round Wall Wash Cover
Product Details 107



Values in Foot Candles

Calculated on the following basis:

Reflectances	Maintenance Factor	LED	Diffuser
Ceiling 70%	1.0	2027lm*	Custom Micro-prismatic wash lens
Walls 50%		3000 Kelvin	
Floor 20%		90 CRI	

*Lumen data correct at the time of print. Source luminaires shown. For up to date lumen data refer to spec sheets.

Design Guide

The Design Guide provides performance data and characteristics for Whitegoods luminaires, as well as expected light levels and typical scenarios based on set parameters. The results are intended as a handy reference to help the specifier plan a project quickly, efficiently and with confidence.

- 1. A description of the performance being demonstrated, and a list of relevant product codes:

4" ProTools Single Downlight - Performance

[WG 100SPTD](#)[WG 100RPTD](#)[WG 100SPTDL](#)[WG 100RPTDL](#)[WG 100SPTDLX](#)[WG 100SPTDLX](#)

Each Base Product Code is a link to relevant Product Pages

- 2. A pictogram of a space with a summary of the application illustrated, and appropriate uses in the field.
- 3. Detailed information about the parameters of the application as tested, and results including:
 - Dimensions at which readings have been taken.
 - Specific Product codes (again, these are [links](#)).
 - Performance characteristics and results.
 - Any relevant technical details.

- 4. Links to most relevant product range pages.
- 5. Additional guidance, in this case regarding set out.

Design Guide Pages

4" ProTools Single Downlight - Performance

WG 100SPTD, WG 100RPTD, WG 100SPTDL, WG 100RPTDL, WG 100SPTDLX, WG 100SPTDLX



2

The ProTools series offers Plaster Trim and Bezel Trim fixed, wall wash and adjustable downlights with various cover options and accessories creating a flexible and versatile range of luminaires with a single consistent internal appearance throughout.

A downlight can be used to deliver general light over a broad area, or a focused beam of concentrated light. Suitable for general area lighting in single units, grid patterns or groups as well as focused lighting and task oriented applications.

This design guide provides the average light levels and beam spread which can be expected at task and floor level from a single downlight at the ceiling heights shown, and relative to the performance of each luminaire.

1

Refer to the diagram on the left, select your luminaire, ceiling height and distance, and read off the light level achieved in the table below.

Calculated on the following basis:

Reflectances
Ceiling 70%
Walls 50%
Floor 20%

Maintenance factor
1.0

How to create 'Even illumination' in a space:
The beam angle of a single luminaire is defined by its wall 'Peak Intensity'. We can use this to create even illumination in a space.

Arrange luminaires equally. Use the center of the luminaire as a base and ensure that neighboring beams spread touch or slightly overlap.



*The point at which the beam reaches half of the intensity relative to the center of the beam.

3

Average Light Levels



The diagram shows the average light level achieved across an area the size shown, at the given distance from a single luminaire.

Product Code	Beam Spread
WG 100SPTD, WG 100RPTD	90°
WG 100SPTDL, WG 100RPTDL	38° 32° 41°
WG 100SPTDLX, WG 100RPTDLX	38° 32° 41° 8°

4

Downlight	4" ProTools DL Downlight All Covers	4" ProTools DL Adjustable All Covers	4" ProTools DLX Downlight All Covers	
75-77	Product Details	82-85	Product Details	94-99

5

Calculation Results

Fixtures	Power	Beam	Accessory	Ceiling Height	0 A	Task Level (2.5') Average	0 B	Floor Level (0') Average
WG 100SPTD, WG 100RPTD	1532lm*	90°	Flush Lens	9'0" / 12'0"	Ø 13" / Ø 19"	64 fc / 31 fc	Ø 18" / Ø 24"	37 fc / 21 fc
WG 100SPTDL, WG 100RPTDL, WG 100SPTDLX, WG 100RPTDLX	2025lm*	18°	Open Aperture	9'0" / 12'0"	Ø 1.8" / Ø 2.2"	102 fc / 49 fc	Ø 2.5" / Ø 3.4"	54 fc / 31 fc
		32°	Open Aperture	9'0" / 12'0"	Ø 4.2" / Ø 6.2"	33 fc / 36 fc	Ø 5.8" / Ø 7.9"	28 fc / 11 fc
		41°	Open Aperture	9'0" / 12'0"	Ø 5" / Ø 7.2"	24 fc / 12 fc	Ø 6.7" / Ø 8.9"	13 fc / 8 fc
WG 100SPTDLX, WG 100RPTDLX	3638lm*	8°	Glass Shield / Snoot	9'0" / 12'0"	Ø 0.9" / Ø 1.2"	277 fc / 132 fc	Ø 1.2" / Ø 1.7"	149 fc / 82 fc

Values in Foot Candles

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*Lumen data correct at the time of print. Source lumens shown. For up to date lumen data refer to specsheet.

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