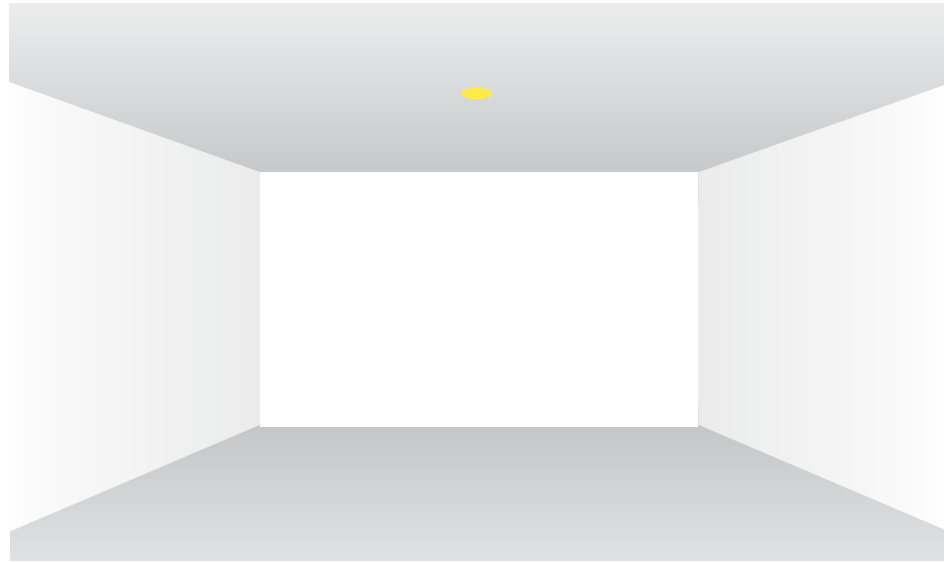


# 100 ProTools Single Downlight - Performance

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



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 minimal appearance throughout.

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

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.

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%

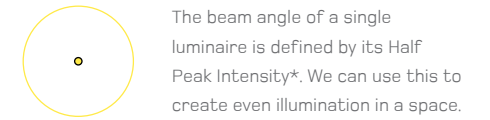
#### Maintenance factor

1.0

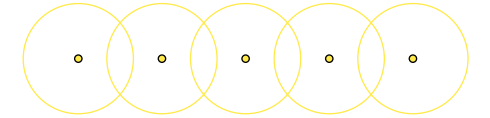
#### LED

High Power  
3000 Kelvin  
90 CRI

How to create 'Even Illumination' in a space:

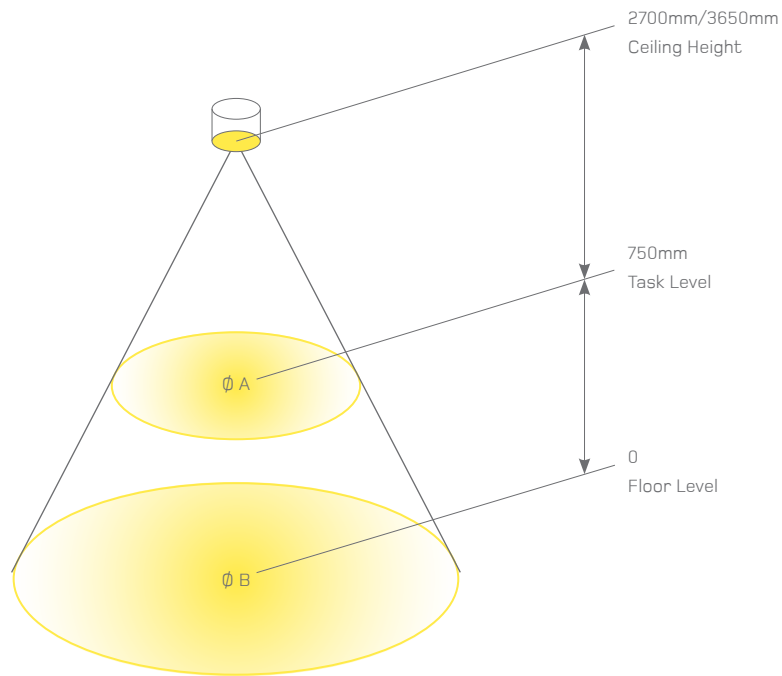


Arrange luminaires equally. Use the centre of the luminaire as a base and ensure that neighboring beam spreads touch or slightly overlap.



\*The point at which the beam reaches half of the intensity relative to the centre of its beam.

## 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	-	16°
	-	32°
	-	41°
WG 100SPTDLX, WG 100SPTDLX	-	16°
	-	32°
	-	41°
	-	8°

## Calculation Results

Fixtures	Power	Beam	Accessory	Ceiling Height	$\phi A$	Task Level (750mm) Average	$\phi B$	Floor Level (0) Average
WG 100SPTD, WG 100RPTD	1512lm*	90°	Flush Lens	2700mm	$\phi$ 3960mm	640 Lux	$\phi$ 5490mm	370 Lux
				3650mm	$\phi$ 5791mm	310 Lux	$\phi$ 7315mm	210 Lux
WG 100SPTDL, WG 100RPTDL, WG 100SPTDLX, WG 100SPTDLX	2027lm*	16°	Open Aperture	2700mm	$\phi$ 550mm	1020 Lux	$\phi$ 750mm	540 Lux
				3650mm	$\phi$ 820mm	490 Lux	$\phi$ 1035mm	310 Lux
				2700mm	$\phi$ 1280mm	330 Lux	$\phi$ 1770mm	180 Lux
3650mm	$\phi$ 1890mm	160 Lux	$\phi$ 2380mm					
2700mm	$\phi$ 1524mm	240 Lux	$\phi$ 2040mm	130 Lux				
					3650mm	$\phi$ 2164mm	120 Lux	$\phi$ 2710mm
WG 100SPTDLX, WG 100SPTDLX	1638lm*	8°	Glare Shield/ Snoot	2700mm	$\phi$ 270mm	2770 Lux	$\phi$ 370mm	1490 Lux
				3650mm	$\phi$ 400mm	1320 Lux	$\phi$ 520mm	820 Lux

Values in Lux

100 ProTools D Downlight  
All Covers

100 ProTools DL Downlight  
All Covers

100 ProTools DL Adjustable  
All Covers

100 ProTools DLX Downlight  
All Covers

Product Details 76-77    Product Details 82-85    Product Details 88-93    Product Details 94-99