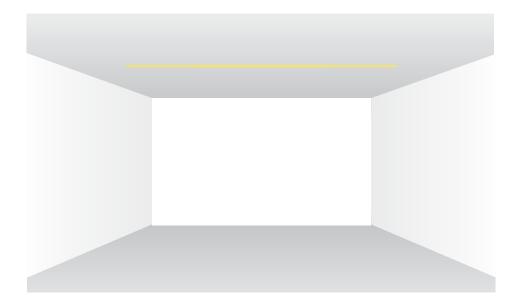
20 Linear Optical Accessory - Performance wg 20LDL-...-S...-NL16-W

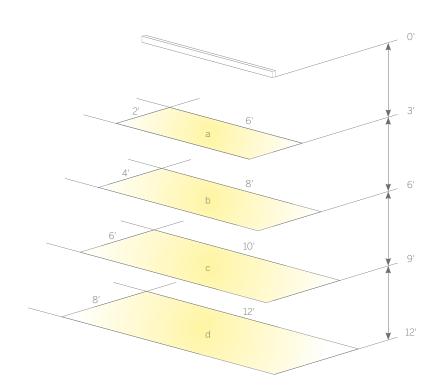


The 20 Linear range of luminaires is one of Whitegoods' most popular. Maybe because of its uber minimal design, compact form factor and almost limitless versatility. Nonetheless, we are compelled to innovate and improve so we have added two Optical Accessories so that the 20 Linear can be utilized in even more applications.

The Linear Narrow Lens delivers a defined narrow beam of light in a continuous run. Although well defined, the beam has soft edges and is smooth across the focus area.

The Linear Louver has been designed to provide excellent shielding of the light source, with a 45° cut off in all angles of view. Even if you happen to look into the luminaire, you will not see LEDs directly; we have included a specifically developed diffuser to cover them and create an even spread of light across the beam.

Light levels at set distances



See tables on right for values taken at 1' x 1' spacings

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

Length of fixture: 4 ft

20 Linear Louver All Mounting Options

Product Details 126-127

20 Linear Narrow Lens All Trim Options

Product Details 126-127

Refer to the diagram on the left, select your luminaire 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

LED

579lm/ft* 3000 Kelvin 90 CRI

20 Linear Louver - Calculation Results

15 37 47 47 37 15 15 37 47 47 37 15

5	9	13	15	15	13	9	5
5	11	15	18	18	15	11	6
5	11	15	18	18	15	11	6

5 9 13 15 15 13 9 5

С									
3	4	5	6	7	7	6	5	4	3
3	5	6	7	8	8	7	6	5	3
4	5	7	8	9	9	8	7	5	4
4	5	7	8	9	9	8	7	5	4
3	5	6	7	8	8	7	6	5	3
3	4	5	6	7	7	6	5	4	3

d											
2	2	3	3	4	4	4	4	3	3	2	2
2	3	3	4	4	5	5	4	4	3	3	2
2	3	4	4	5	5	5	5	4	4	3	2
2	3	4	4	5	5	5	5	4	4	3	2
2	3	4	4	5	5	5	5	4	4	3	2
2	3	4	4	5	5	5	5	4	4	3	2
2	3	3	4	4	5	5	4	4	3	3	2
2	2	3	3	4	4	4	4	3	3	2	2

Values in Foot Candles

20 Linear Narrow Lens - Calculation Results

a					
47	78	94	94	78	47
47	78	94	94	78	47

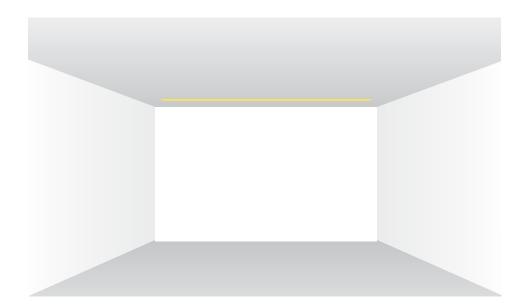
D							
10	11	13	13	13	13	11	10
26	36	44	49	49	44	36	26
26	36	44	49	49	44	36	26
10	11	13	13	13	13	11	10

C									
5	5	5	5	6	6	5	5	5	5
9	10	12	13	14	14	13	12	10	9
15	18	22	25	26	26	25	22	18	15
15	18	22	25	26	26	25	22	18	15
9	10	12	13	14	14	13	12	10	S
5	5	5	5	6	6	5	5	5	5

a											
3	3	3	4	4	4	4	4	4	3	3	3
4	5	5	5	6	6	6	6	5	5	5	4
7	8	9	10	11	11	11	11	10	9	8	7
11	12	13	15	16	16	16	16	15	13	12	11
11	12	13	15	16	16	16	16	15	13	12	11
7	8	9	10	11	11	11	11	10	9	8	7
4	5	5	5	6	6	6	6	5	5	5	4
3	3	3	4	4	4	4	4	4	3	3	3

Values in Foot Candles

20 Linear - High Angle Illumination wg 20LDL-RPT, WG 20LDL-RBT, WG 20LDL-SM, WG 20LUC-SM

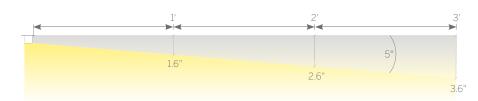


The 20 Linear is a versatile product. In its simplest form it is a recessed or surface mounted continuous linear strip of light.

It can be used for general illumination, or lighting within architectural details, or to illuminate specific surfaces. Below you can see the effect on a wall when a 20LDL-RPT, RBT or SM is mounted at relatively close offset to a wall.

Angle of Illumination / High Angle Lighting Performance

WG 20LDL-SM, WG 20LUC-SM



The diagrams show the point at which the contrast between the lit and the unlit perpendicular surface occurs as a soft transition line, at various distances from the luminaire.

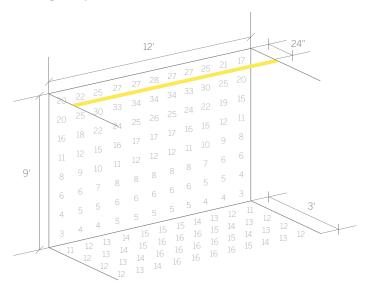
Values in feet & inches

WG 20LDL-RPT-S, WG 20LDL-RBT

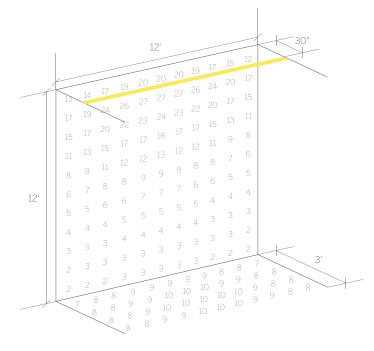


20 Linear 20 Linear Plaster Trim Surface Mount Product Details 120 Product Details 124-127 20 Linear 20 Linear Bezel Trim **Under Cabinet** Product Details 122 Product Details 144

9' Ceiling, 24" Optimum Offset



12' Ceiling, 30" Optimum Offset



Values in Foot Candles

Calculated on the following basis:

es Maintenan	ice Factor LED	Diffuser
1.0	579lm/ft*	Satin Opal
	3000 Kelvi	in
	90 CRI	
		1.0 579lm/ft* 3000 Kelvi

These diagrams indicate light levels to be expected on the wall and floor when using these luminaire types at various distances from the wall.

This page shows what we feel are the optimum offsets for the ceiling heights as shown.

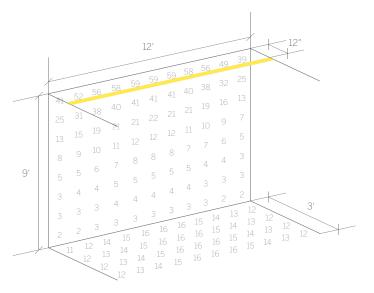
The following page shows results at different offsets.

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

20 Linear - High Angle Illumination

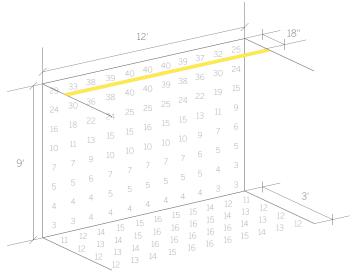
WG 20LDL-RPT, WG 20LDL-RBT, WG 20LDL-SM, WG 20LUC-SM

9' Ceiling, 12" Offset

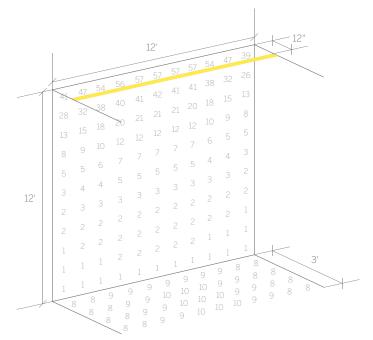


9' Ceiling, 18" Offset

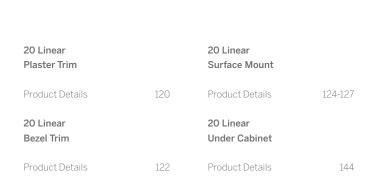
12' Ceiling, 18" Offset



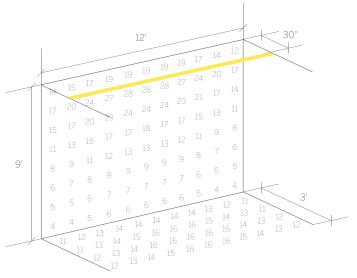
12' Ceiling, 12" Offset



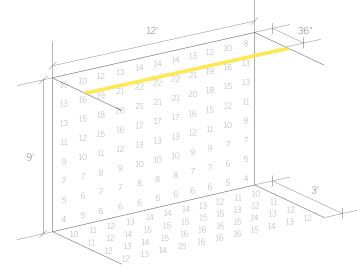
Values in Foot Candles



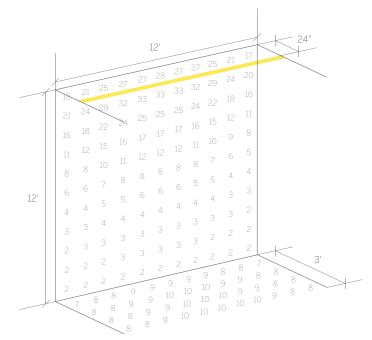
9' Ceiling, 30" Offset



9' Ceiling, 36" Offset

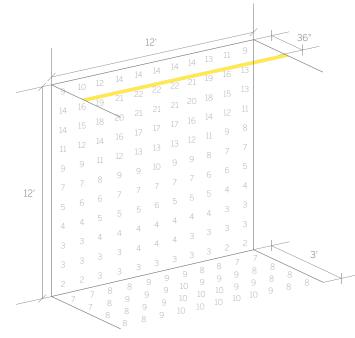


12' Ceiling, 24" Offset



Values in Foot Candles

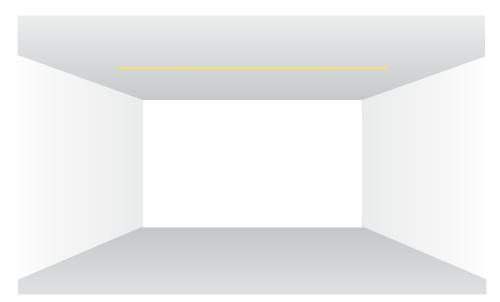
12' Ceiling, 36" Offset



Calculated on the following basis:

Reflectances	Maintenance Factor	LED	Diffuser
Ceiling 70%	1.0	579lm/ft*	Satin Opa
Walls 50%		3000 Kelvin	
Floor 20%		90 CRI	

20 Linear/60 Linear - Single Luminaire wg 20LDL-RPT, wg 20LDL-RPT, wg 60LDL-RPT, wg 60LDL-SM, wg 60LDL-SM,



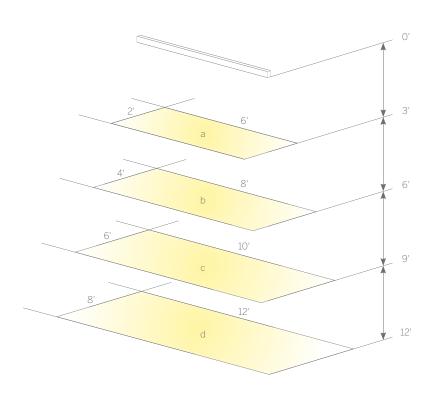
Plaster trim, bezel trim, surface mount and suspended luminaires with continuous even light along the entire lens.

Use for general area lighting in single units, grid patterns or groups, and continuous runs including horizontal and vertical corners.

Also, consider using at close offset from a wall or other feature surface to draw focus to it.

Average light levels at set distances

Values in Foot Candles



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

Length of fixture: 4 ft

20 Linear All Mounting Options

Product Details 120-139

60 Linear **All Mounting Options**

Product Details 184-191 Refer to the diagram on the left, select your luminaire 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

LED

Medium Power 3000 Kelvin 90 CRI

Calculation Results

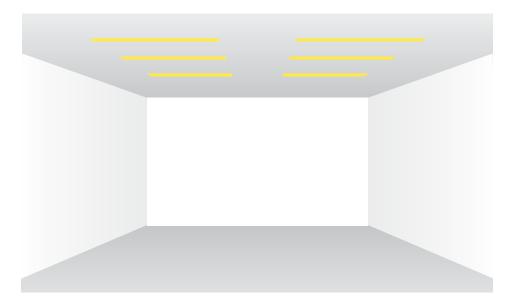
Luminaire Type	Accessory	Power	Average light le	vels (fc) at giv	ven distance fr	om luminaire
			а	b	С	d
WG 20LDL-RPT, WG 20LDL-RBT, WG 20LDL-SM, WG 20LUC-SM,	Satin Opal	579lm/ft*	34	12	7	5
WG 20LRF	Satin Clear	579lm/ft*	54	18	10	7
WG 60LDL-RPT, WG 60LDL-RBT, WG 60LDL-SM, WG 60LDL-S	Satin Opal	691lm/ft*	48	17	9	6
	Satin Clear	691lm/ft*	66	23	12	8

Values in Foot Candles

268 Whitegoods Book *Lumen data correct at the time of print. Source lumens shown. For up to date lumen data refer to specsheet. inter-lux.com/whitegoods 269

20 Linear/60 Linear - Grid Set Out

WG 20LDL-RPT, WG 20LDL-RBT, WG 20LDL-SM, WG 20LUC-SM, WG 60LDL-RPT, WG 60LDL-RBT, WG 60LDL-SM, W

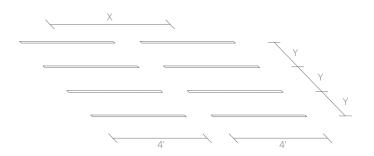


Surface mount, suspended, plaster trim and bezel trim luminaires available in any length with continuous even light along the entire lens.

Use for general area lighting in grid patterns or groups.

Also, consider using at close offset from a wall or other feature surface to draw focus to it.

Average light levels at set spacing



The diagram and table can be read to establish light levels achieved when luminaires are set out at the dimensions indicated, at the ceiling heights shown.

20LDL Satin Clear 579lm/ft*
60LDL Satin Clear 691lm/ft*

X = luminaire spacing center to center 4.0' spacing = continuous luminaire Y = distance between rows

> 20 Linear All Trim Options

Product Details 120-139

60 Linear All Trim Options

Product Details 184-191

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

Calculated in a 20'x20' room size and on the following basis:

Reflectances

Ceiling 70% Walls 50% Floor 20%

Maintenance factor

1.0

LED

Medium Power 3000 Kelvin 90 CRI

Calculation Results

Luminaire Type	Accessory	Ceiling Height	Υ	X Average Light Levels (fc)			
				4.0'	6.0'	8.0'	10.0'
WG 20LDL-RPT, WG 20LDL-RBT,	Satin Clear	9.0'	4.0'	45	42	39	36
WG 20LDL-SM, WG 20LUC-S			6.0'	38	35	32	30
			8.0'	29	27	25	23
			10.0'	22	20	19	18
		12.0'	4.0'	35	34	31	30
		12.0	6.0'	30	29	27	25
			8.0'	23	21	21	19
			10.0'	18	17	16	15
WG 60LDL-RPT, WG 60LDL-RBT,	Satin Clear	9.0'	4.0'	34	31	29	27
WG 60LDL-SM, WG 60LDL-S			6.0'	28	26	24	22
			8.0'	21	20	18	17
			10.0'	17	15	14	13
		12.0'	4.0'	26	25	24	22
		12.0	4.0 6.0'	23	25	20	19
			8.0'	23 17	16	15	19
			10.0'	13	12	12	11
			10.0	10	14	14	11

Values in Foot Candles

272 Whitegoods Book *Lumen data correct at the time of print. Source lumens shown. For up to date lumen data refer to specsheet. inter-lux.com/whitegoods 273