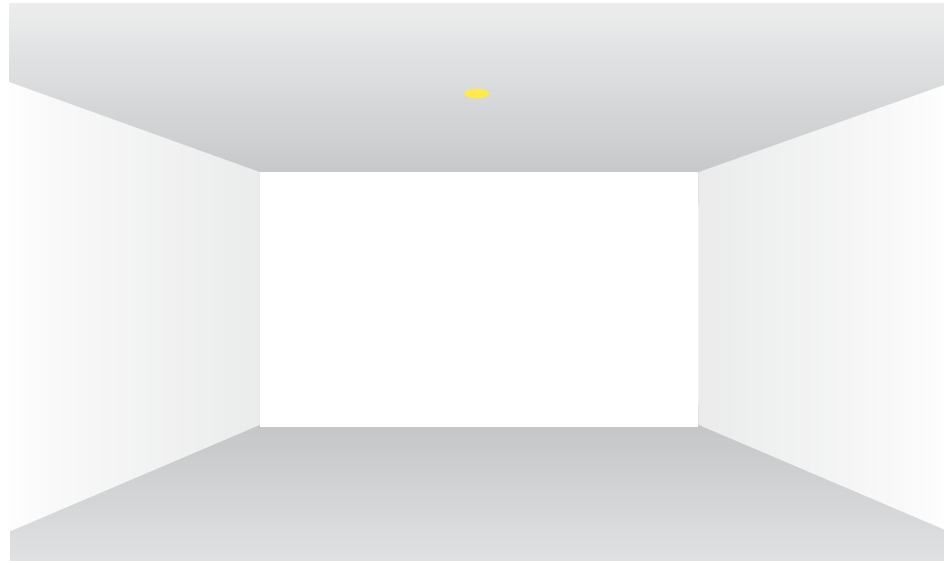


## 2.4" General Downlight Regressed Cone - Performance

WG 60RDL-RBT-RC



Bezel Trim fixed downlights with various cover options for regressed lens, flush lens and wall wash.

A fixed downlight can be used to deliver general light over a broad area (with a flush lens for example), or a more focused beam of light (from the regressed lens).

The GDL family of luminaires has been developed to offer simple and cost effective lighting wherever it is needed. Simple to install and with simple aesthetics, it's a luminaire which gets the job done with the minimum of fuss.

We have provided here performance data based on the most popular and versatile option: the Regressed Cone.

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%

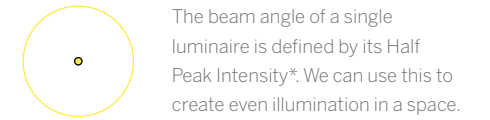
### Maintenance factor

1.0

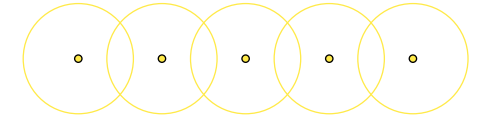
### LED

Medium Power  
3500 Kelvin  
80 CRI

How to create 'Even Illumination' in a space:

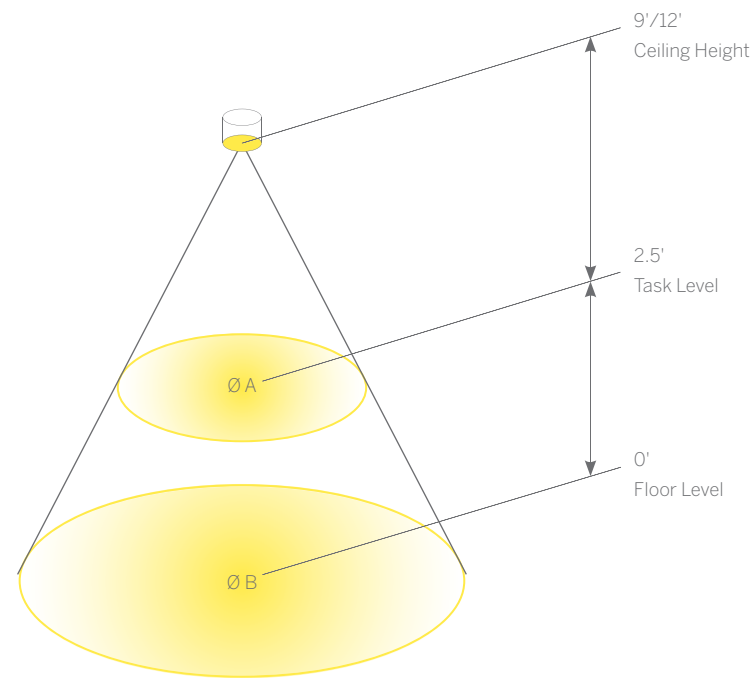


Arrange luminaires equally. Use the center of the luminaire as a base and ensure that neighboring beam spreads touch or slightly overlap.



\*The point at which the beam reaches half of the intensity relative to the center 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 60RGDL-RBT-RC                      74°

### Calculation Results

Fixtures	Power	Beam	Accessory	Ceiling Height	Ø A	Task Level (2.5') Average	Ø B	Floor Level (0') Average
WG 60RGDL-RBT-RC	965lm*	74°	ClearTextured Lens	9.0'	Ø 9'	5.3 fc	Ø 13'	2.6 fc
				12.0'	Ø 14'	3.0 fc	Ø 18'	1.6 fc

Values in Foot Candles

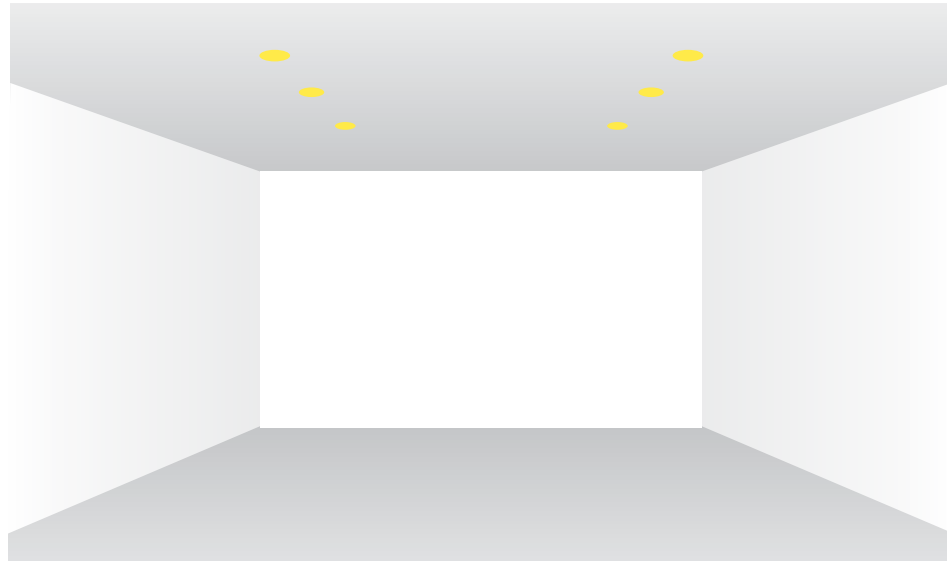
### 2.4" General Downlight Round Regressed Cone

Product Details

71

## 2.4" General Downlight Multiple Luminaire - Grid Set Out

WG 60RDL-RBT-FD, WG 60RDL-RBT-RC



Bezel Trim fixed downlights with various cover options and accessories.

A fixed downlight can be used to deliver general light over a broad area, or a focused beam of 'concentrated' light.

They can be used for general area lighting in single units, grid patterns or groups.

Wider beams will give a more even, calm light, narrow beams will give a more dramatic mood.

Refer to the diagram on the left, select your luminaire, ceiling height and spacing, 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%

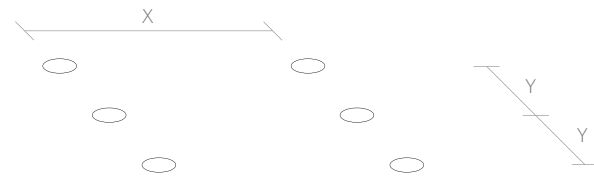
### Maintenance factor

1.0

### LED

Medium Power  
3500 Kelvin  
80 CRI

### Light Levels



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.

Product Code	Beam Spread
WG 60RDL-RBT-FD	- Lambertian
WG 60RDL-RBT-RC	- 74°

X = luminaire spacing center to center  
Y = distance between rows

### Calculation Results

Fixtures	Power	Beam	Accessory	Ceiling Height	Y	X		
						Average Light Levels (fc)		
						4.0'	6.0'	8.0'
WG 60RDL-RBT-FD	965lm*	Lambertian	Flush Satin Opal Diffuser	9.0'	4.0'	15	13	11
					6.0'	13	11	10
					8.0'	11	10	8
				12.0'	4.0'	11	10	9
					6.0'	10	9	8
					8.0'	9	8	7
WG 60RDL-RBT-RC	965lm*	74°	Clear Textured Lens	9.0'	4.0'	22	18	15
					6.0'	18	14	12
					8.0'	15	12	10
				12.0'	4.0'	18	14	13
					6.0'	14	12	10
					8.0'	13	10	9

Values in Foot Candles

### 2.4" General Downlight Round Flush Diffuser

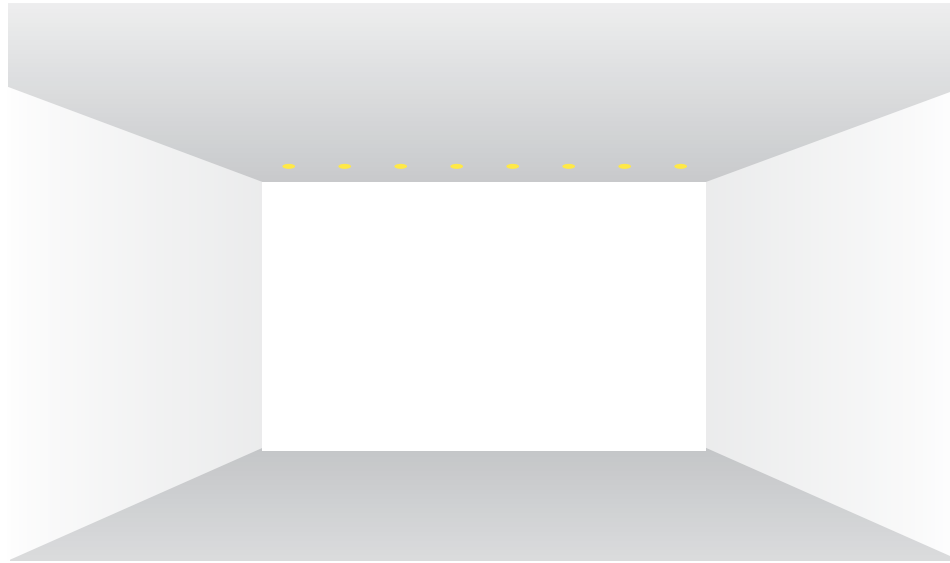
Product Details 70

### 2.4" General Downlight Round Regressed Cone

Product Details 71

## 2.4" General Downlight Flush - High Angle Illumination

WG 60RDL-RBT-FD



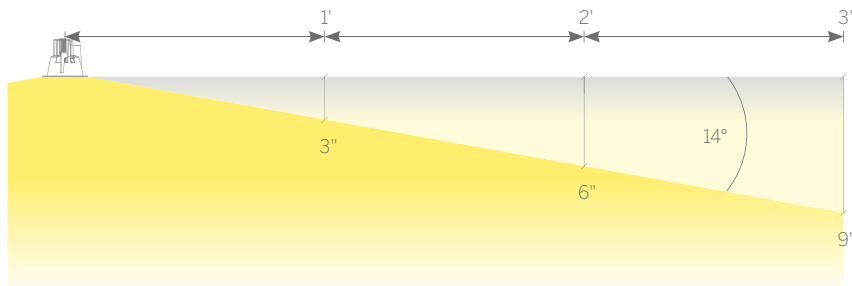
GDL Flush is a versatile luminaire with a Satin Opal diffuser which is flush with the ceiling line.

The Flush Diffuser provides excellent high angle light characteristics. Although it is not intended as a dedicated wall wash luminaire, it can provide good illumination to nearby vertical surfaces as well as providing excellent ambient light throughout a space.

This design guide provides all the information needed to work out exactly how much light can be expected to be delivered to a wall and the floor below, relative to the distance from the wall surface, and the center to center spacings of the luminaires.

### Angle of Illumination / High Angle Lighting Performance

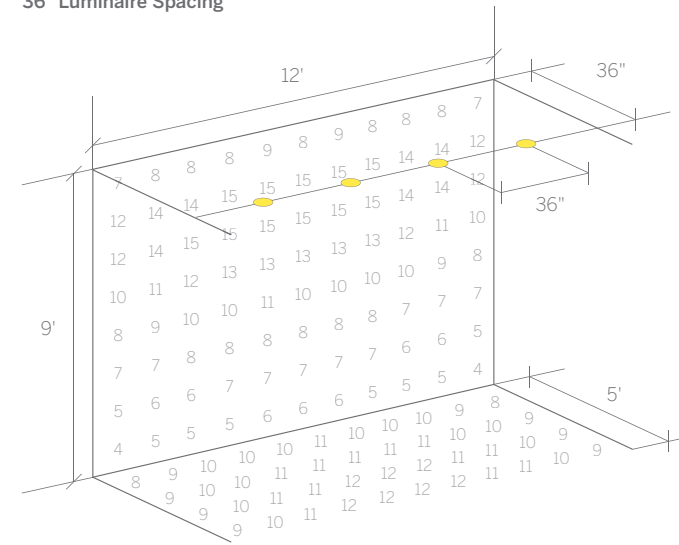
WG 60RDL-RBT-FD



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

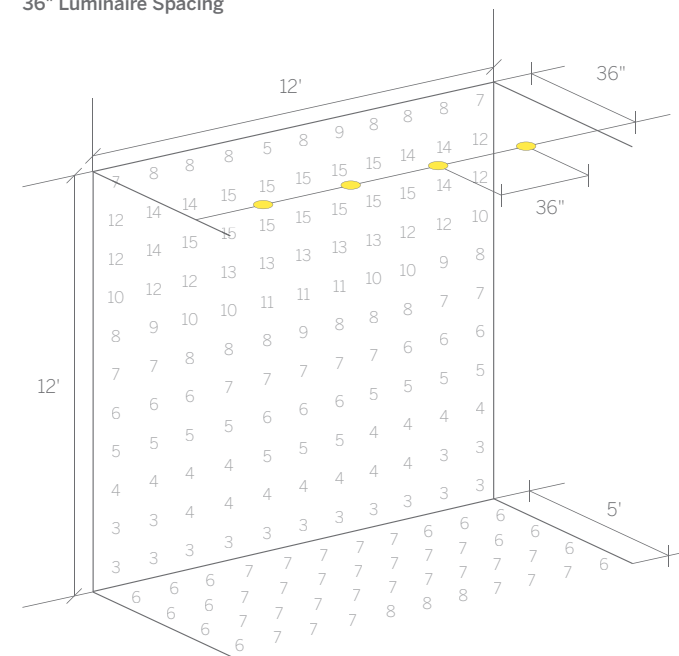
Values in feet & inches

### 9' Ceiling, Typical 36" Offset, 36" Luminaire Spacing



This page shows typical offsets and luminaire spacings and the resulting illumination which can be expected on the wall and floor. The following page shows results at different offsets and luminaire spacings.

### 12' Ceiling, Typical 36" Offset, 36" Luminaire Spacing



Values in Foot Candles

Calculated on the following basis:

Reflectances	Maintenance Factor	LED	Diffuser
Ceiling 70%	1.0	965lm*	Flush Frosted
Walls 50%		3500 Kelvin	
Floor 20%		80 CRI	

**2.4" General Downlight  
Round Flush Diffuser**

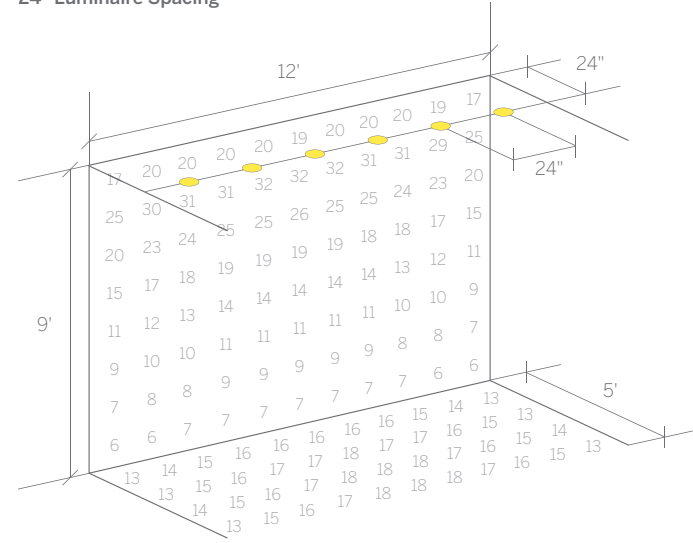
Product Details

71

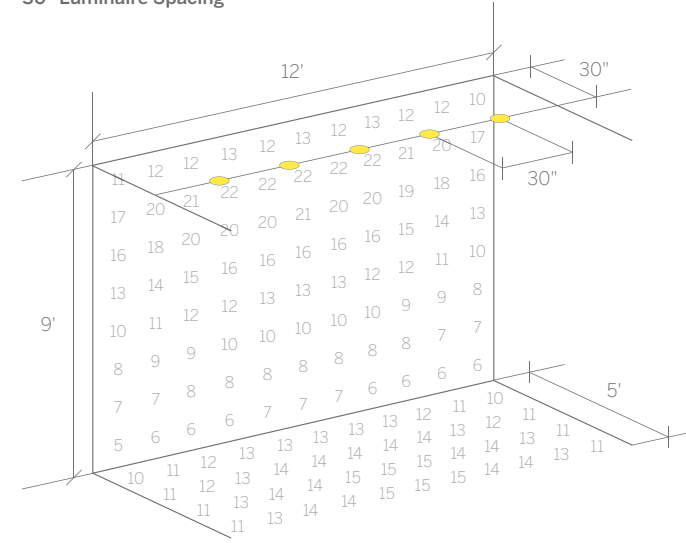
## 2.4" General Downlight Flush - High Angle Illumination

WG 60RDL-RBT-FD

9' Ceiling, Optimal 24" Offset,  
24" Luminaire Spacing

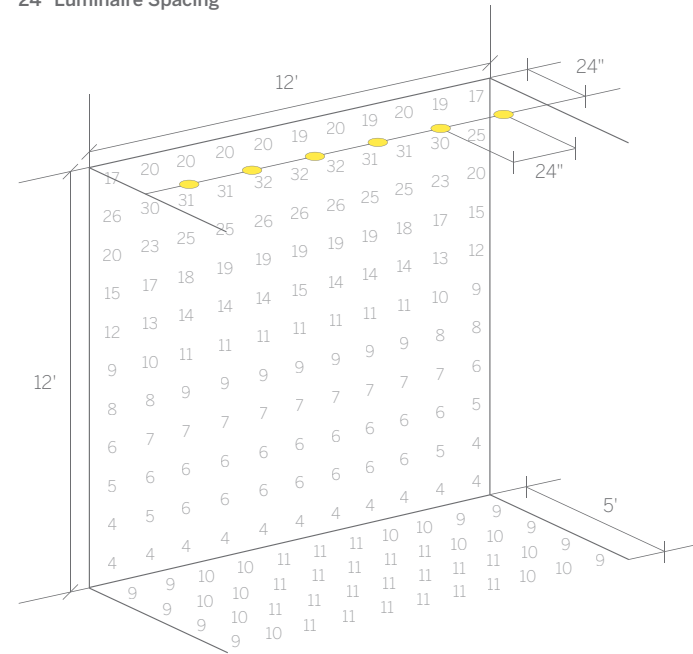


9' Ceiling, Optimal 30" Offset,  
30" Luminaire Spacing

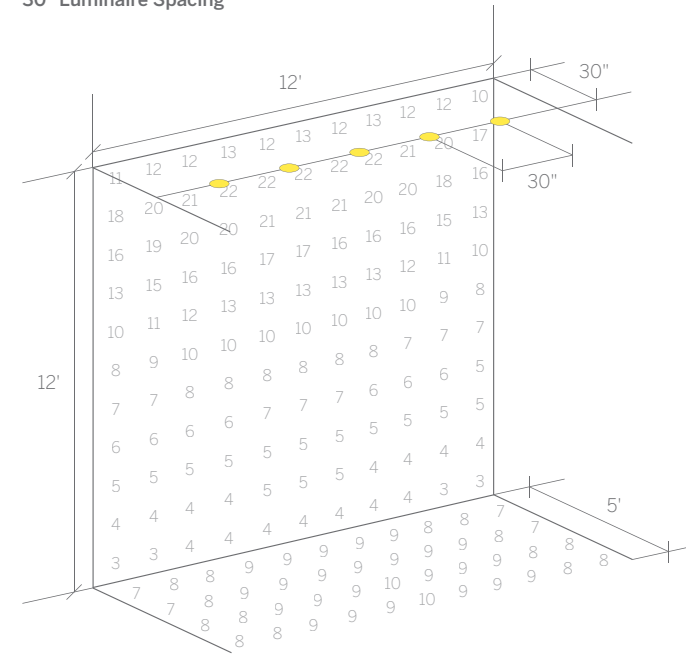


This page shows what we feel are the optimal offsets and luminaire spacings to achieve even illumination.

12' Ceiling, Optimal 24" Offset,  
24" Luminaire Spacing



12' Ceiling, Optimal 30" Offset,  
30" Luminaire Spacing



Values in Foot Candles

Values in Foot Candles

### 2.4" General Downlight Round Flush Diffuser

Product Details

71

Calculated on the following basis:

Reflectances	Maintenance Factor	LED	Diffuser
Ceiling 70%	1.0	965lm*	Flush Frosted
Walls 50%		3500 Kelvin	
Floor 20%		80 CRI	

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