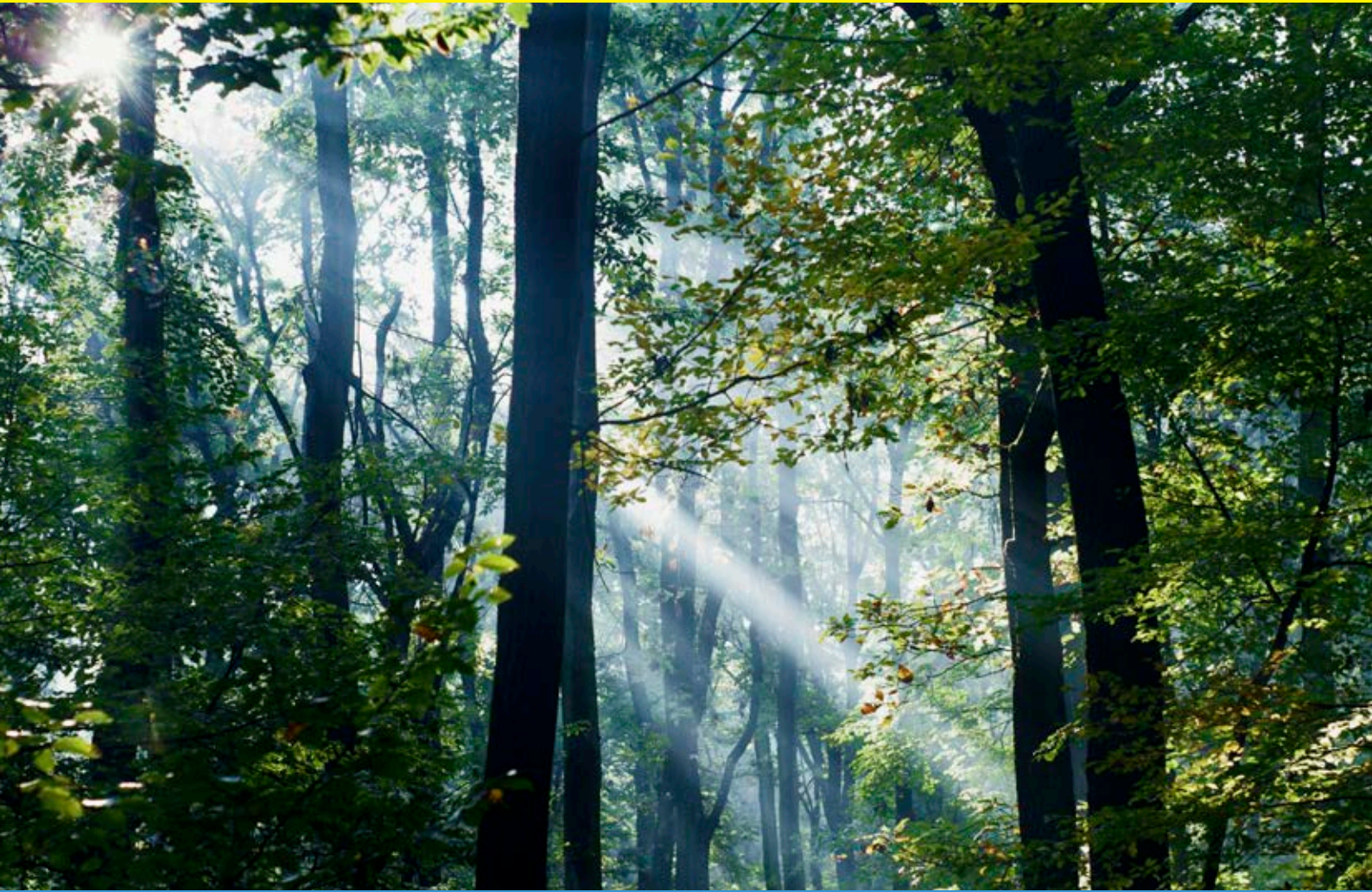


LINJAR | LET THE DAYLIGHT POUR IN

NXTGEN | UPDATED FEBRUARY 2016



eaglelightingaustralia



# LINJAR

Swedish for linear.  
The Linjar is a combination of straight lines and forward thinking, that seamlessly reproduces the benefits of natural lighting for indoor environments.

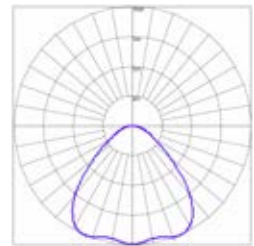
## Somewhere from the natural world



We invite you to close your eyes and think of a place which you would describe as having beautiful ambient lighting. As with most people, you may be remembering an outdoor space, somewhere from the natural world. This may be a sunrise or a sunset, an afternoon walking through the mountains, a forest or maybe a place beside a lake or the ocean.

## Letting the daylight pour in

Basing our product design around these studies and the natural world, we have designed a luminaire with a large luminance opening made up of two functional areas. The central section directs the light downwards whilst the flanking secondary streams are pushing the light side-wards. The contrast between the central section and the secondary streams creates a soft transition between the luminaire and the ceiling. Linjar lifts the roof off the office and allows the daylight pour in.

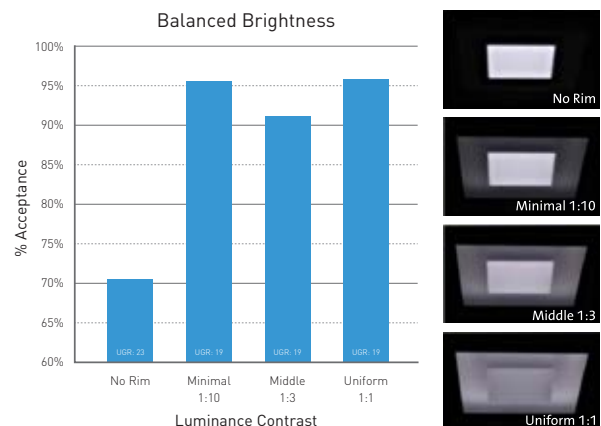
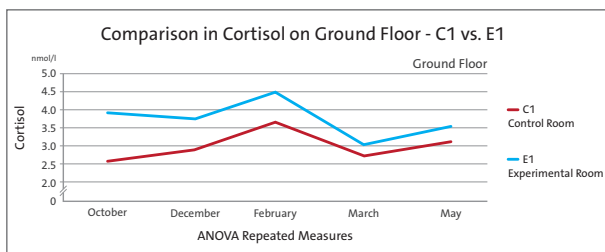


## Supports the production of cortisol

Not many indoor office environments can replicate the natural world. Therefore, we have used evidence based research<sup>(1)</sup> when designing the Linjar luminaire to imitate the sky and replicate our natural environment. Much of this research tells us that good ambient lighting at the correct angles supports production of the alertness hormone cortisol, and suppresses the sleep hormone, melatonin<sup>(2)</sup>. The Pickhurst study<sup>(3)</sup> has even demonstrated that there is a direct link between good ambient lighting and our ability to learn.

## Truly homogeneous

We've seen a significant increase in the number of studies on glare and how humans react to it. These studies have proved that background luminance is vital for visual comfort. Higher levels of peak brightness increases will intensify the perception of glare. By introducing a lower luminance around the border of the luminaire, this reduces the glare perception and will support a lower UGR rating. The balanced brightness of the Linjar luminaire results in a truly homogeneous surface, designed for visual comfort.



## Feel better, perform better

When we put all these studies together we have seen that good lighting not only makes us perform better, but it makes us feel better. These effects have been attributed to reducing anxiety, stress and lowering absenteeism as well as improving performance.

<sup>(1)</sup> "Preferred luminance distribution in working areas"

[T. Govén, C. Bångens, B. Pearson]

<sup>(2)</sup> "The background luminance and colour temperatures influence on alertness and mental health" [T. Govén, T. Laike, B. Pendse, and K. Sjöberg 2007]

<sup>(3)</sup> "The influence of ambient lighting on pupils in classrooms - considering visual, Biological and emotional aspects as well as use of energy - The Pickhurst study". [T. Govén, T. Laike, P. Raynham, E. Sansal]



600 X 300 LINJAR FITTING



LINJAR DELTA DIFFUSER



# LINJAR

W	Size	Sys. lm	Lum. lm	lm/W	CRI	Code	Suffix
Linjar   Exposed T-Bar, Delta Diffused, 4000K							
10	600 x 300	1350	1163	113	84	EL-LIN-1102-	----
12	600 x 300	1600	1366	115	84	EL-LIN-1103-	----
20	1200 x 300	2700	2453	122	84	EL-LIN-1106-	----
24	1200 x 300	3200	2852	120	84	EL-LIN-1107-	----
26	1500 x 300	3750	3131	120	84	EL-LIN-1126-	----
31	1500 x 300	4250	3616	118	84	EL-LIN-1127-	----
14	600 x 300	1350	1165	84	95	EL-LIN-1100-	----
15	600 x 300	1600	1314	88	95	EL-LIN-1101-	----
25	1200 x 300	2800	2405	95	95	EL-LIN-1122-	----
29	1200 x 300	3300	2710	94	95	EL-LIN-1123-	----
35	1500 x 300	4000	3328	95	93	EL-LIN-1130-	----
40	1500 x 300	4500	3721	94	93	EL-LIN-1131-	----
Seismic Restraint Kit - 4 x gripple, 2 x 2m wire						EL-ACC-210-000	



With a system power consumption as low as 20w and an impressive system efficacy of up to 122lm/W, the Linjar is ideal for offices and general lighting applications.

The central prism section directs the light downwards whilst the flanking secondary streams push the light side-wards. The contrast between these sections creates a soft transition between the luminaire and the ceiling. This controls the light in the 65 degree plane to within 3000cd/m2, thus ensuring a visually comfortable workplace.

The electronic driver is mounted to the rear of the luminaire in an isolated thermal chamber. By separating the driver, the LEDs within the luminaire are kept at their lowest possible operating temperature. This ensures that the Linjar can offer the longest possible lifetime of its LED components.

The LED boards used in the Linjar are Zhaga compliant. By using this LED solution the boards are easily replaced/ upgraded to take advantage of the latest available LED technology and energy savings.

### Options:

- » Organic Response Enabled integral
- » Surface Mount
- » Plaster Recessed
- » Tunable White
- » Air Handling
- » Wipe Down 1mm Acrylic Diffuser
- » Cyanosis



Wiring options	Suffix
Standard	-000
DALI/STD terminal block	-200
Maintained emergency	-800
DALI monitored emergency	-801
Organic Response	-900

Add one suffix code to the end of the luminaire part number to indicate required function.

Technical specifications
Total Luminaire Efficacy Maximum < 122lm/W
MacAdam 3 SDCM
System guarantee 5 years
2.4m x 2.4m - 20w = 1.02W/m <sup>2</sup> /100 lux
2.4m x 3.0m - 24w = 0.99W/m <sup>2</sup> /100 lux

Lumen Maintenance			
W	Spacing	CRI	Lifetime
20W	2.4m x 2.4m	840	L90B10 58,000hrs
24W	2.4m x 3.0m	840	L90B10 49,000hrs
25W	2.4m x 2.4m	940	L90B10 43,000hrs
29W	2.4m x 3.0m	940	L90B10 39,000hrs

### Nominal dimensions (mm)

Fitting	A	B	C	kg.
ETB 600 x 300	594	294	95	2.7
ETB 1200 x 300	1194	294	95	5.3
ETB 1500 x 300	1494	294	95	6.3

### Performance Summary

**Spacing: Linjar 840, 1200 x 300**

2.4m x 2.4m - 20w = 344.83 lux	UGRmax: 18.0
2.4m x 3.0m - 24w = 333.67 lux	UGRmax: 18.9

**Spacing: Linjar 940, 1200 x 300**

2.4m x 2.4m - 25w = 338.01 lux	UGRmax: 17.9
2.4m x 3.0m - 29w = 341.59 lux	UGRmax: 18.6

**Design parameters**

Maintenance: 0.8	Reflectance: 70/50/20
Ceiling height: 2.7m	Working plane: 0.72m

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