



Node

Product Guide



Unios Toolbox

This digital tool provides you with a platform for configuring, bookmarking and collaborating on luminaires for any project.

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Education

With contributions from leading experts, Universal Light is dedicated to increasing the awareness of the impact of light and the lighting industry.

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Lighting simplified.

Building digital tools.
Sharing new knowledge.

Introducing the Node Darklight Series

The Node Series is Unios' first downlight series that adopts the darklight concept, offering optimum efficiency for maximum visual comfort. This comprehensive downlight range is the perfect combination of versatility, efficiency and glare control. Imitating the effect of natural light, the Node aims to create mood and ambience by hiding the light source or, more precisely, minimising their presence within the field of peripheral vision.

Suitable for indoor and outdoor applications, the Node is a high performing and flexible lighting solution. With three distinct collections, Recessed, Adjustable and IP65, the Node is engineered to meet the dynamic specifications of commercial spaces and comfort requirements of residential projects. The Node has an ultra-low UGR of <10, which creates an "invisible" light effect, making it the ideal solution for environments where glare control and visual comfort are top priorities.



Node Recessed



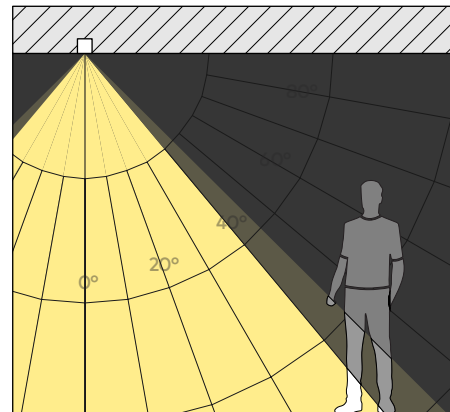
Node Adjustable



Node IP65

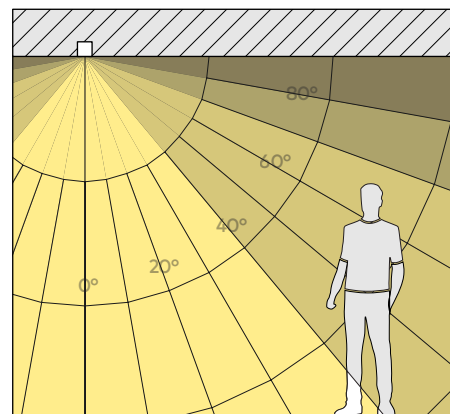
	Node Recessed	Node Adjustable	Node IP65
Mounting	Recessed		Semi-Recessed
Power	2W, 10W, 20W, 30W	10W, 20W	
Absolute Luminous Flux	Up to 2444lm	Up to 1860lm	Up to 1690lm
Colour Temp (CCT)	3000K, 4000K		
Beam	46°		
Glare Rating	<10		
IP Rating	IP20		IP65
Adjustability	-	Up to 45°	-
Control	Non-Dim, Phase-Cut, DALI, Bluetooth		

Overview



Node Darklight: Zonal Lumen Summary
In the example on the left, the Node luminaire cuts off at 60° angle for the darklight effect.

Zone	Lumens
0 - 10	141.94
10 - 20	356.25
20 - 30	315.93
30 - 40	44.06
40 - 50	1.00
50 - 60	0.13
60 - 70	0.00
70 - 80	0.00
80 - 90	0.00



Apex Downlight: Zonal Lumen Summary
In the example on the left, see the light source for the Apex at a similar beam angle.

Zone	Lumens
0 - 10	117.45
10 - 20	229.35
20 - 30	257.58
30 - 40	283.71
40 - 50	135.54
50 - 60	34.69
60 - 70	23.83
70 - 80	10.72
80 - 90	0.73

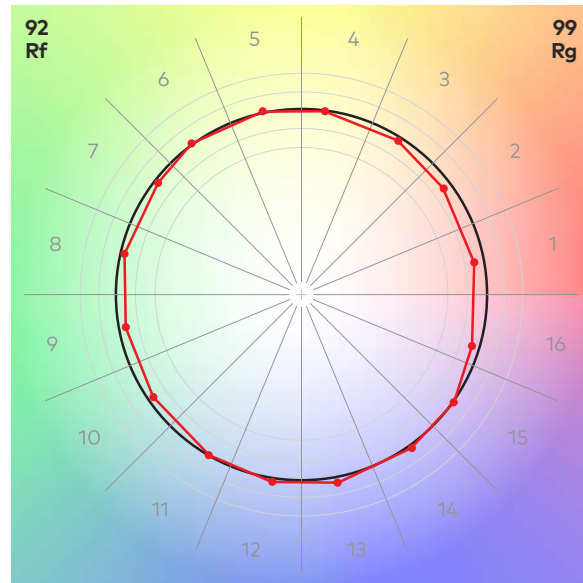
The horizontal peripheral vision of the average person is approximately 90°. Meanwhile, their vertical field of view is less than 60°. Therefore, there is no perceivable light above the 60° viewing angle to achieve the darklight standard.



Following the concept of a darklight, the Node delivers the "invisible" light effectively through clever maneuvering of the human's field of peripheral vision.

An invisible light source is ideal for drawing visual attention and cognitive focus on the subject being illuminated. The Node is engineered to emit unnoticeable light at the source with minimal optical interference from glare. This creates contrasts between light and shadows, which serve as visual cues to focus occupants on the accented objects or architectural features.

In many ways, effective utilisation of a darklight can help lighting designers and lighting professionals define the emotions that they want occupants to experience. In this sense, with its slim and discreet design, the Node can be a powerful medium that creates and enhances a space's overall ambience and conceptual elegance.



The diagram above demonstrates that all the colours as part of the standard are displayed as close to true reality as possible

The Node Series is engineered with the latest generation of LED technology, delivering superior colour rendering ability with excellent lifetime performance.

True-to-life colour performance

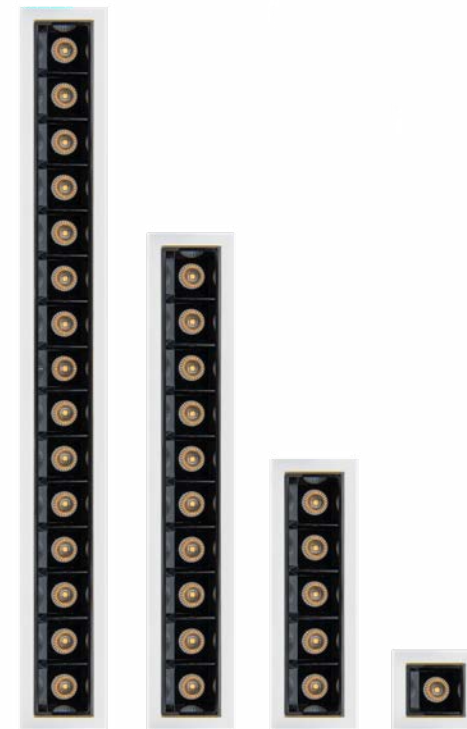
Along with its colour rendering ability at CRI 90+, the Node Series is also designed to meet the contingent criteria of the TM30 standard. Designed to achieve a balanced level of colour saturation, the Node guarantees that all colours are displayed as true-to-life as possible.

L90B10 Lifetime

In this day and age, where the L70 norm for an LED lifetime is gradually becoming obsolete, the Node Series is committed to pushing the boundaries with a lifetime of >66,000h L90B10. The Node provides lasting quality assurance with an excellent lifetime performance that gives designers and lighting professionals peace of mind on their projects.

To find out more about the new colour standard, please see our white paper on TM30.





Optimum efficiency for maximum visual comfort

Shallow recessed installation

The Node is perfect for installations in spaces with minimal vertical clearance within ceiling cavities. The key advantage of the recessed darklight is that all of its variations do not exceed 52mm in height, thus providing various lumen options regardless of ceiling restrictions.

Low visual impact

Even when illuminated, the Node remains unnoticeable, leaving a minimal glow at ceiling level with an opening that blends seamlessly with the architectural intent. Engineered to provide a subtle line of light, this recessed darklight series is unobtrusive to the architectural surrounding while providing the most comfortable source of ambience lighting.

A wide range of options

The Node Recessed Darklight comes in a wide range of sizes and power options, satisfying varying project requirements. As the more diversified option, the recessed darklight is available in the single module which doubles as a starlight for mood lighting and a 15-module with higher power output at 30W.

Node Adjustable

Node Adjustable Darklight –
balances glare and performance



Standard

Tilted 20°

Extended

Extended and adjusted 45°

Engineered to be the ideal accent light, the Node Adjustable Darklight has a unique swivel extending out of the luminaire to allow for a true 45° tilt. Additionally, the Node can still provide adequate flexibility with

a 20° tilt within its internal body, perfect for the subtle recessed look. This design feature allows for installations in structures such as raked ceilings with adjustability to only highlight the desired architectural forms.





The ideal outdoor lighting solution for the nightscapes

Designed for exterior use, the Node IP65 is the ideal darklight for façade illumination or alfresco and covered walkway lighting. With increasing public awareness of light pollution, there are now considerations toward more responsible lighting practices and technologies for the nighttime.

Equipped with minimal glare and a semi-recessed trim, the Node IP65 Darklight works excellently to balance aesthetics, usability, and safety while supporting residents and the nightscapes environment.



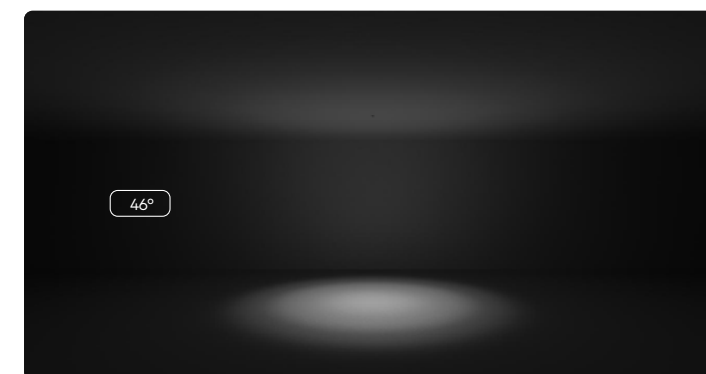
Node Recessed

Darklight



		LED Power	Lumens (at 3000K)	Beam	Weight	Driver Options
1	Node 1	2W (700mA)	176lm	46°	90g	Non-Dim, DALI, Bluetooth
2	Node 5	10W (700mA)	859lm	46°	345g	Phase Cut, DALI, Bluetooth
3	Node 10	20W (700mA)	1822lm	46°	690g	Phase Cut, DALI, Bluetooth
4	Node 15	30W (700mA)	2348lm	46°	1.0kg	Phase Cut, DALI, Bluetooth

Key Information		Design		Performance		Driver	
Mounting	Ceiling Recessed	Product Family	Node	Lumen efficacy	Up to 77lm/W	Non-Dim	Remote
Finish	<input checked="" type="checkbox"/> Textured Black <input type="checkbox"/> Textured White/Black	Material	Powder Coated Aluminium	CRI (Ra/R9)	90+ (R9: >50)	Phase Cut	Remote
LED CCT	<input checked="" type="checkbox"/> 2700K <input type="checkbox"/> 3000K <input type="checkbox"/> 4000K	IP Rating	IP20	UGR	<10	DALI	Remote
Warranty	5 Year	Class Rating	Class II	Lifetime (Ta 25°C)	>66,000h L90B10	Bluetooth	Remote
		Insulation Rating	IC	Ambient Temperature Range	10°- 30°C	Driver Notes	
				SDCM	≤3	Node 1 must be wired in series in groups of 3-4 for dimmable solutions.	
				COI Compliance model requirements	4000K		



Node Adjustable

Darklight



		LED Power	Lumens (at 3000K)	Beam	Weight
1	Node Adjustable 5	10W (700mA)	859lm	46°	650g
2	Node Adjustable 10	20W (700mA)	1822lm	46°	1.3kg

Key Information		Design		Performance		Driver	
Mounting	Ceiling Recessed	Product Family	Node	Lumen efficacy	Up to 77lm/W	Phase Cut	Remote
Finish	<input checked="" type="checkbox"/> Textured Black <input type="checkbox"/> Textured White/Black	Adjustability	30mm extension, 45° Tilt	CRI (Ra/R9)	90+ (R9: >50)	DALI	Remote
LED CCT	<input checked="" type="checkbox"/> 2700K <input type="checkbox"/> 3000K <input type="checkbox"/> 4000K	Material	Powder Coated Aluminium	UGR	<10	Bluetooth	Remote
Warranty	5 Year	IP Rating	IP20	Lifetime (Ta 25°C)	>66,000h L90B10		
		Class Rating	Class II	Ambient Temperature Range	10°- 30°C		
		Insulation Rating	IC	SDCM	≤3		
				COI Compliance model requirements	4000K		

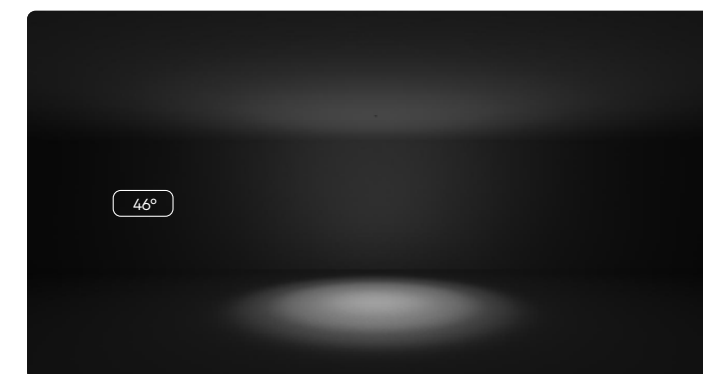
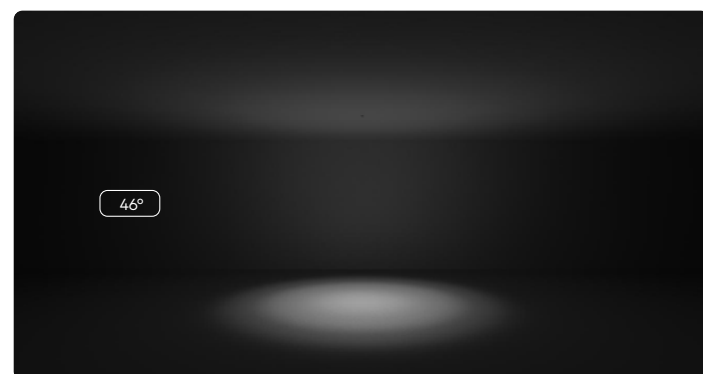
Node IP65

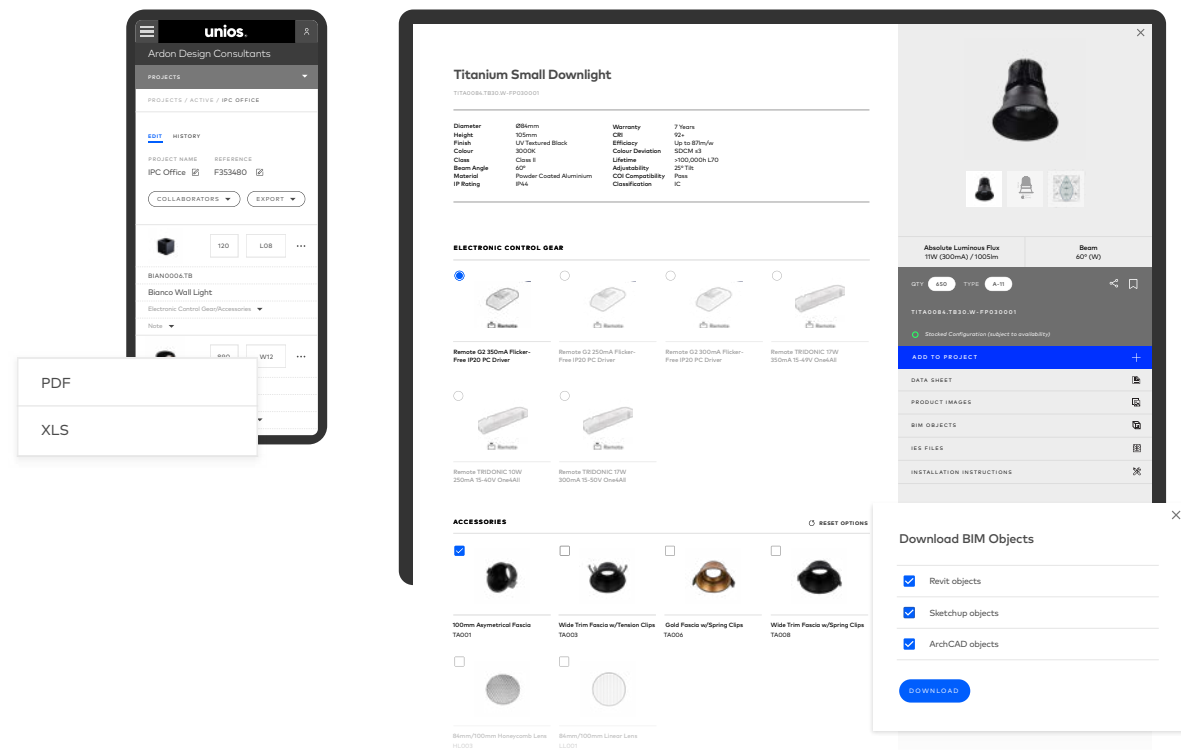
Darklight



		LED Power	Lumens (at 3000K)	Beam	Weight
1	Node IP65 5	10W (700mA)	836lm	46°	430g
2	Node IP65 10	20W (700mA)	1624lm	46°	860g

Key Information		Design		Performance		Driver	
Mounting	Ceiling Recessed	Product Family	Node	Lumen efficacy	Up to 70lm/W	Phase Cut	Remote
Finish	<input checked="" type="checkbox"/> Textured Black <input type="checkbox"/> Textured White/Black	Material	Powder Coated Aluminium	CRI (Ra/R9)	90+ (R9: >50)	DALI	Remote
LED CCT	<input checked="" type="checkbox"/> 2700K <input type="checkbox"/> 3000K <input type="checkbox"/> 4000K	IP Rating	IP65 (Room Side)	UGR	<10	Bluetooth	Remote
Warranty	5 Year	Class Rating	Class II	Lifetime (Ta 25°C)	>66,000h L90B10		
		Insulation Rating	IC-4	Ambient Temperature Range	10°- 30°C		
				SDCM	≤3		
				COI Compliance model requirements	4000K		





From design to documentation in seconds

Best-in-class product configuration tools

With different design and performance criteria for every project, discovering and configuring the right luminaire needs to be a seamless process. With the Unios Toolbox, you can filter through thousands of variations in seconds.

Export customised PDF and Excel lighting schedules

Project lighting can quickly get complex and time-consuming. We've developed a suite of tools to allow you to build a luminaire schedule, export it in PDF or Excel formats and integrate it back into your own project workflow.

More data accessibility than ever before

BIM objects, IES files, customised data sheets and product images are all easily accessible for your project requirements. All product variations are presented with a holistic view of each data point and piece of documentation you may require.

Special Thanks

This publication wouldn't be possible without the ongoing support of our project partners, distributors and photographers who have assisted in providing content.

More Information

For additional technical information and to access our full library, visit unios.com. Our library contains a comprehensive database of BIM objects, IES files and product imagery.

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