

# ENERGYLINE OPTICS

## LIGHTING SYSTEM

Energyline Optics enhances lighting design opportunities with a range of lens-based optics, including wall-washing in a continuous application.

### OUR APPROACH TO PRODUCT DESIGN

#### ATTENTION TO DETAIL

Designed for people to enjoy spaces, by people who care about visual comfort and wellbeing

Design life of 15+ years

Light tight end caps

Thorough quality assurance checks from start to finish

#### SUSTAINABILITY

The best way to be sustainable is to use a product that lasts.

High efficacy, up to 125lm/W

Sustainable aluminium

Recyclable packaging

#### RAPID INSTALLS

Quick and simple mounting systems reduce liability and ensure no LEDs are compromised

No need to remove the gear tray

Accu-Join delivers seamless joins

Retain ESD compliance

Delivered in clearly labelled sections

#### NO BUGS INSIDE

Same great finish in 10 years as the day luminaires are installed

IP4x in controlled distribution lighting

No dust ingress

Light leak control



We believe sustainability starts with products that are built to last, create real value and change the lives of those who use them.

Sustainable products reduce waste and provide synergy with our economy, environment and society.

Our 10 year warranty serves as a promise that our NZ made products are free from defects in materials and workmanship.



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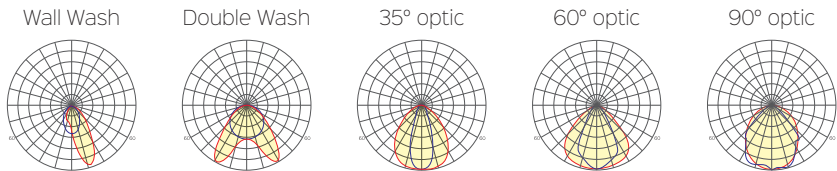
# ENERGYLINE OPTICS DIRECT

SURFACE | SUSPENDED

These steps explain how to specify your ENERGYLINE Optics. This system offers high performance and some customisation capability.

STEP ①	②	③	④	⑤	⑥	⑦	⑧
Length (mm)	Mounting method	Direct Optic	Direct Lumens/m	CRI	CCT	Controls	Colour
Specify required length or attach a drawing	Ceiling Surface	Wall Wash Optic	1000	80	3000K	Fixed Output	Texture White
	Wire Suspended	Double Wash Optic	2000	90	3500K	DALI Dimming	Black Sand
	Rod - Flat Ceiling	35° Optic	3000 <sup>1</sup>	95	4000K	Casambi Wireless	Custom
	Rod - Angle Ceiling	60° Optic	Custom <sup>2</sup>		2700-6500 TW	Other	
Lengths available in ~282mm increments		90° Optic					

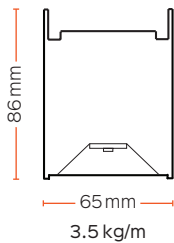
### DISTRIBUTIONS



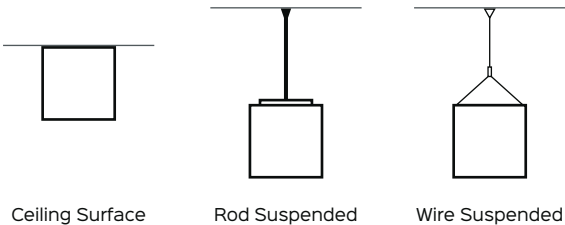
### WATTAGE INFO<sup>3</sup>

LUMENS/m	WATTAGE (W/m)
1000	8.0
2000	16.0
3000	24.0

### PROFILE DIMENSIONS



### MOUNTING



### IMPORTANT INFORMATION

EFFICACY	Up to 125 Lm/W
COLOUR	Consistent light quality within 3 MacAdams
LIFETIME	Greater than L80 B10 >72,000 hours
SWITCHING CYCLES	>100,000
IP PROTECTION	IP4x
WARRANTY	10 years
LIFETIME DRIVER	>100,000 hrs (standard outputs)
DESIGN LIFE	15+ years
COI CYONOSIS	<3.3 in 4000K CRI 90
MELONOPIC RATIO (MR)	Up to 1.1 in 6500K Tuneable White

### FACTORY NOTES

For information on upgrades/accessories, refer to our design guides

<sup>1</sup>May utilise high output lumen package light engine, consult factory for details

<sup>2</sup>Custom outputs available on request

Lumen maintenance values are calculated by IEC 62717:2014 incorporating (L) and (B). Allow 5% reduction in luminous flux for 3000K. Custom luminous fluxes available, consult factory.

<sup>3</sup>Estimates based on Dali dimmable 80Ra fittings with wall wash, values given are variable due to build configuration of lengths and drivers



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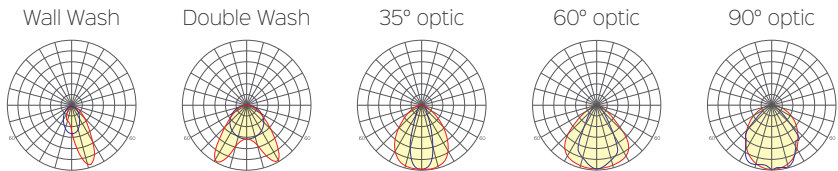
# ENERGYLINE OPTICS RECESSED

## RECESSED

These steps explain how to specify your ENERGYLINE Optics. This system offers high performance and some customisation capability.

STEP ①	②	③	④	⑤	⑥	⑦
Length (mm)	Direct Optic	Direct Lumens/m	CRI	CCT	Controls	Colour
Specify required length or attach a drawing	Wall Wash Optic	1000	80	3000K	Fixed Output	Texture White
	Double Wash Optic	2000	90	3500K	DALI Dimming	Black Sand
	35° Optic	3000 <sup>1</sup>	95	4000K	Casambi Wireless	Custom
Lengths available in ~282mm increments	60° Optic	Custom <sup>2</sup>		2700-6500 TW	Other	
	90° Optic			Other		

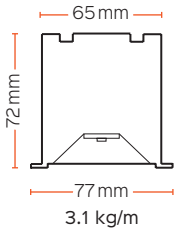
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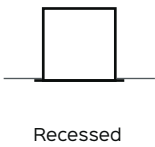
### WATTAGE INFO<sup>3</sup>

LUMENS/m	WATTAGE (W/m)
1000	9.1
2000	16.0
3000	24.0

### PROFILE DIMENSIONS



### MOUNTING



### IMPORTANT INFORMATION

EFFICACY	Up to 125 Lm/W
COLOUR	Consistent light quality within 3 MacAdams
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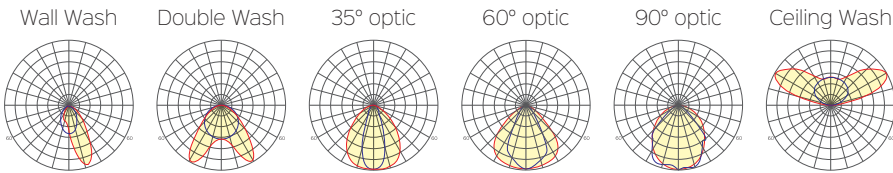
# ENERGYLINE OPTICS DIRECT/INDIRECT

## SUSPENDED

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STEP ①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Length (mm)	Mounting method	Direct Optic	Direct Lumens/m	Indirect Optic	% of Direct Lumens/m for Indirect*	CRI	CCT	Controls	Colour
Specify required length or attach a drawing  Lengths available in ~282mm increments	Wire Suspended	Wall Wash Optic	1000	Ceiling Wash	30%	80	3000K	Fixed Output	Texture White
	Rod - Flat Ceiling	Double Wash Optic	2000		50%	90	3500K	DALI Dimming	Black Sand
	Rod - Angle Ceiling		3000 <sup>1</sup>		100%	95	4000K	Casambi Wireless	
		35° Optic	Custom <sup>2</sup>		Custom		2700-6500 TW	Other	Custom
		60° Optic							
		90° Optic							

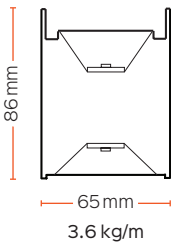
### DISTRIBUTIONS



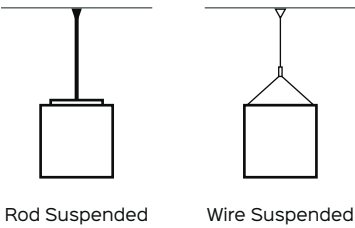
### WATTAGE INFO<sup>3</sup>

LUMENS/m DIRECT	WITH 50% UP (W/m)	WITH 100% UP (W/m)
1000		15.4
2000	23.4	30.8
3000	35.2	46.2

### PROFILE DIMENSIONS



### MOUNTING



### IMPORTANT INFORMATION

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COLOUR	Consistent light quality within 3 MacAdams
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<sup>2</sup>Custom outputs available on request

<sup>3</sup>For example, if 2000lm/m is selected for the down light component, 30% for the uplight will be 600lm/m; 50% for uplight will be 1000lm/m

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