Intralux

Versatile
VL9050

Founded in 1986, **Intralux Australia** has extensive international presence in more than 20 countries via strategic alliances with local distributors and re-sellers. Our manufacturing facilities encompass modern semi-automated production techniques and an in-house research and development department that utilises sophisticated 3D modelling technologies to take advantage of rapid prototyping processes.

The Intralux team comprises of dedicated professionals working together in a corporate culture that is focused on the customer, human resources, design and innovation.

· Customers, design inception driven by customer needs, delivery time, prices and personalised service.

· Human Resources, in terms of continuous learning, team work and people empowerment.

·Design and Innovation, in terms of investment in new technology and acquisition of new techniques to achieve one of Intralux's competitive advantages – clever design. The intense development processes that Intralux employs will certainly assure the quality of products with unparalleled performance, lasting well into the future. Our aims are of course to provide maximum benefits, utilising the latest lamp technology available in the world today.

Illumination for tomorrow's world

Index

AUSTRALIAN MADE

Certified System
Quality
ISO 9001

Continuous Linear

The Versatile VL9050 Continuous Linear Lens offers a diverse range of longitudinal beam options, four CCT choices and Tunable White, with up to 4,581 lumens per meter. It comes with Non-Dim, DALI, and Casambi control options as standard, providing a targeted lighting solution to direct light precisely where it's needed.

Mounting
Surface Mount as standard. Suspended via wire or Rod Suspension Kit, and Wall installations.

Ingress Protection
With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan
L90 B10 > 42,000 hours /
L80 B10 > 72,000 hours

Electrical
VL9050 facilitates easy installation via male/female factory-fitted 'Plug+Go' connectors to electrically interconnect between luminaires.

Optics
Explore a diverse range of five longitudinal beam options, each designed to cater to specific lighting needs with precision and versatility.

Choose from the Batwing - Double Asymmetric for broad, even coverage, or the Single Asymmetric for targeted, directional illumination.

Opt for the Narrow - 60° beam for focused, concentrated light, or the Oval - 70°x27° for elongated, elliptical coverage.

Finally, the Wide - 90° beam offers expansive illumination, perfect for covering larger areas with ease.

Color Temperature

2,700 K CRI ≥ 93	3,000 K CRI ≥ 93	3,500 K CRI ≥ 93	4,000 K CRI ≥ 93	Tunable White (2700K - 6500K)

Finishes

Black Texture Powdercoat Finish	White Texture Powdercoat Finish	Special Finishes Upon Request

Continuous Linear
Recessed

The Versatile VL9050 Continuous Linear Lens offers a diverse range of longitudinal beam options, four CCT choices and Tunable White, with up to 4,581 lumens per meter. It comes with Non-Dim, DALI, and Casambi control options as standard, providing a targeted lighting solution to direct light precisely where it's needed.

Mounting
Recessed Mount offers an unobtrusive linear illumination of a space.

Ingress Protection
With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan
L90 B10 > 42,000 hours /
L80 B10 > 72,000 hours

Electrical
VL9050 facilitates easy installation via male/female factory-fitted 'Plug+Go' connectors to electrically interconnect between luminaires.

Optics
Explore a diverse range of five longitudinal beam options, each designed to cater to specific lighting needs with precision and versatility.

Choose from the Batwing - Double Asymmetric for broad, even coverage, or the Single Asymmetric for targeted, directional illumination.

Opt for the Narrow - 60° beam for focused, concentrated light, or the Oval - 70°x27° for elongated, elliptical coverage.

Finally, the Wide - 90° beam offers expansive illumination, perfect for covering larger areas with ease.

Color Temperature

2,700 K CRI ≥ 93	3,000 K CRI ≥ 93	3,500 K CRI ≥ 93
4,000 K CRI ≥ 93	Tunable White (2700K - 6500K)	

Finishes

Black Texture Powdercoat Finish

White Texture Powdercoat Finish

Special Finishes Upon Request

Diffused

The Versatile VL9050 Diffused is a visually pleasing general illumination tool that lights up to 50 meters with a seamless 1-piece diffuser system, eliminating unsightly gaps. It offers four CCT options, and Tunable White, that delivers up to 2,838 lumens per meter. Standard control options include Non-Dim, DALI, and Casambi.

Mounting
Surface Mount as standard. Suspended via wire or Rod Suspension Kit, and Wall installations.

Ingress Protection
With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan
L90 B10 > 42,000 hours /
L80 B10 > 72,000 hours

Light
Select from various luminaire output options of 25W/m with 1,890 delivered lumens per meter and 41W/m offering 2,838 delivered lumens per meter.

Optics
The optical component of the diffused luminaire offers a pleasing diffused glow and features a one-piece diffuser system. For run lengths up to 50m, one piece of diffused can be supplied to cover entire run lengths to eliminate unsightly light gaps between diffuser pieces.

Color Temperature

2,700 K CRI ≥ 93	3,000 K CRI ≥ 93	3,500 K CRI ≥ 93	4,000 K CRI ≥ 93	Tunable White (2700K - 6500K)

Finishes

Black Texture Powdercoat Finish

White Texture Powdercoat Finish

Special Finishes Upon Request

Diffused
Recessed

The Versatile VL9050 Diffused is a visually pleasing general illumination tool that lights up to 50 meters with a seamless 1-piece diffuser system, eliminating unsightly gaps. It offers four CCT options, and Tunable White, that delivers up to 2,838 lumens per meter. Standard control options include Non-Dim, DALI, and Casambi.

Mounting
Recessed Mount offers an unobtrusive linear illumination of a space.

Ingress Protection
With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan
L90 B10 > 42,000 hours /
L80 B10 > 72,000 hours

Light
Select from various luminaire output options of 25W/m with 1,890 delivered lumens per meter and 41W/m offering 2,838 delivered lumens per meter.

Optics
The optical component of the diffused luminaire offers a pleasing diffused glow and features a one-piece diffuser system. For run lengths up to 50m, one piece of diffused can be supplied to cover entire run length to eliminates unsightly light gaps between diffuser pieces.

Color Temperature

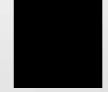|				
2,700 K CRI ≥ 93	3,000 K CRI ≥ 93	3,500 K CRI ≥ 93	4,000 K CRI ≥ 93	Tunable White (2700K - 6500K)

Finishes

Black Texture Powdercoat Finish

White Texture Powdercoat Finish

Special Finishes Upon Request

Louvered

The Versatile VL9050 Louvered luminaire features an office-compliant UGR rating of <19, combining style with functionality. It offers four CCT options, including Tunable White, delivering up to 3,475 lumens per meter. With Non-Dim, DALI, and Casambi control options as standard, and a variety of louver colours available.

Mounting
Surface Mount as standard. Suspended via wire or Rod Suspension Kit, and Wall installations.

Ingress Protection
With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan
L80 B10 > 50,000 hours

Light
Select from various luminaire output options of 23W/m with 2,351 delivered lumens per meter and 34W/m offering 3,475 delivered lumens per meter.

Optics
The optical component of the louvered luminaire offers an office compliant UGR rating of < 19 as well as a very stylish and sophisticated demeanour.

Color Temperature

2,700 K CRI ≥ 93	3,000 K CRI ≥ 93	3,500 K CRI ≥ 93	4,000 K CRI ≥ 93	Tunable White (2700K - 6500K)

Finishes

Black Texture Powdercoat Finish

White Texture Powdercoat Finish

Special Finishes Upon Request

Louvered
Recessed

The Versatile VL9050 Louvered luminaire features an office-compliant UGR rating of <19, combining style with functionality. It offers four CCT options, including Tunable White, delivering up to 3,475 lumens per meter. With Non-Dim, DALI, and Casambi control options as standard, and a variety of louver colours available.

Mounting
Recessed Mount offers an unobtrusive linear illumination of a space.

Ingress Protection
With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan
L80 B10 > 50,000 hours

Light
Select from various luminaire output options of 23W/m with 2,351 delivered lumens per meter and 34W/m offering 3,475 delivered lumens per meter.

Optics
The optical component of the louvered luminaire offers an office compliant UGR rating of < 19 as well as a very stylish and sophisticated demeanour.

Color Temperature

- 2,700 K CRI ≥ 93
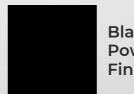- 3,000 K CRI ≥ 93
- 3,500 K CRI ≥ 93
- 4,000 K CRI ≥ 93
- Tunable White (2700K - 6500K)

Finishes

- Black Texture Powdercoat Finish
- White Texture Powdercoat Finish
- Special Finishes Upon Request

Uplighter

Integrating the VL9050 Uplighter into your lighting design or space offers several benefits, particularly in creating ambient lighting, enhancing aesthetics, and improving the overall illumination of a space.

Ingress Protection

With an IP40 rating, the luminaire ensures protection against solid objects greater than 1mm and offers versatility for indoor applications.

Lifespan

L90 B10 > 50,000 hours

Light

Many output options, colour temperature choices available with up to 1587 lumens per meter.

Optics

Two diffuser options are available: a frosted diffuser for increased light output with less diffusion, and a matte diffuser for enhanced diffusion, ideal when the uplighter is positioned close to the ceiling surface.

Uplighters create a soft, indirect light by reflecting light off the ceiling or walls, which evenly diffuses throughout the room. This enhances the ambient lighting without causing harsh shadows or glare.

Color Temperature

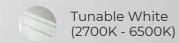- 2,400 K CRI ≥ 93
- 2,700 K CRI ≥ 93
- 3,000 K CRI ≥ 94
- 3,500 K CRI ≥ 94
- 4,000 K CRI ≥ 94
- Tunable White (2700K - 6500K)
- RGBW

Finishes

- Black Texture Powdercoat Finish
- White Texture Powdercoat Finish
- Special Finishes Upon Request

VL9050 Continuous Linear

MEASUREMENT

580 / 1140 / 1700 / 2260 / 2820

90

51.5

TECHNICAL INFORMATION

Mounting
Location	Surface / Suspended / Wall
Type	Wire Suspension Kit, Rod Suspension Wall Mount Bracket
Ingress Protection	IP40

Electrical
Input Voltage	220-240V ac 50/60Hz
Dimming	Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location	Integral
Electrical Connection Type	Hard Wired or Clear Flex
Input Cable Length	2500m
Interconnection Between Fixtures	Male / Female Factory Fitted Connectors

Dimension
Width	51.5mm
Height	90mm
Weight	2.9kgs/m
Maximum Single Luminaire Length	2820mm
Finished Fixture Length	LED Module Increments + 20mm

Light
	13W Module	22W Module
Luminaire Power (Typical)	25W/m	41W/m
Luminaire Lumens	2908 lms/m	4851 lms/m

Colour Temperature	2700K / 3000K / 3500K / 4000K / Tunable White (2700K to 6500K)
CRI	93
LED Board Increments	280mm
Beam Angle	Double Asymmetric, Single Asymmetric, Narrow - 60°, Oval - 70°x27°, Wide - 90°
Binning (SDCM)	3
LM-80/TM-21 Lifespan	L90 B10 > 42,000 hours / L80 B10 > 72,000 hours
Max. Verified Ambient Temperature	40°c
Max. Interconnectable Run Length	50m (Dependant on module configuration)

VL9050 Family Options
Uplighter
Mini-Spots
Global Track
Blanking Sections

COLOUR METRICS

3000K

4000K

	3000K		4000K
R1	94	R1	94
R2	96	R2	96
R3	96	R3	95
R4	94	R4	94
R5	94	R5	93
R6	94	R6	92
R7	94	R7	96
R8	87	R8	90
R9	70	R9	75
R10	90	R10	89
R11	94	R11	93
R12	80	R12	72
R13	95	R13	95
R14	97	R14	96
R15	92	R15	93

PHOTOMETRIC

Double Asymmetric 'Batwing' (CLB)

Single Asymmetric (CLA)

Narrow - 60° (CLN)

Wide - 90° (CLW)

Oval - 70° x 27° (CLO)

SPECIFICATION CODE

PRODUCT	WATTAGE	MODEL	INSTALL TYPE	LUMINAIRE LENGTH	FINISH	COLOUR TEMPERATURE	DIMMING
VL9050	**13**	**CLO**	**SM**	**2820**	**BT**	**930**	**DALI**
(VL9050 Product Family)	(13) 2908 lms/m (22) 4851 lms/m	(CLB) Batwing (CLA) Asymmetric (CLN) Narrow - 60° (CLO) Oval - 70° x 27° (CLW) Wide - 90°	(SM) Surface Mount (SU) Suspended (WM) Wall Mount	Run length in mm.	(BT) Black Texture Powdercoat (WT) White Texture Powdercoat (SP) Other	(927) 2700K (930) 3000K (935) 3500K (940) 4000K (TW) Tunable White	(F) Fixed Output (DALI) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

VL9050R Continuous Linear

MEASUREMENT

582 / 1142 / 1702 / 2262 / 2822

90

72

COLOUR METRICS

3000K

Relative Intensity / Wavelength (nm)

4000K

Relative Intensity / Wavelength (nm)

	3000K		4000K
R1	94	R1	94
R2	96	R2	96
R3	96	R3	95
R4	94	R4	94
R5	94	R5	93
R6	94	R6	92
R7	94	R7	96
R8	87	R8	90
R9	70	R9	75
R10	90	R10	89
R11	94	R11	93
R12	80	R12	72
R13	95	R13	95
R14	97	R14	97
R15	92	R15	93

TECHNICAL INFORMATION

Mounting
Location — Recessed
Type — Swing brackets
Ingress Protection — IP40

Electrical
Input Voltage — 220-240V ac 50/60Hz
Dimming — Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location — Integral
Electrical Connection Type — Hard Wired
Interconnection Between Fixtures — Male / Female Factory Fitted Connectors

Dimension
Width — 72mm (including flanges)
Cutout Width — 60mm
Height — 90mm
Weight — 3.1kgs/m
Maximum Single Luminaire Length — 2822 mm (incl trimkit)
Finished Fixture Length / Cutout Length — LED Module Increments + 22mm

Light

	13W Module	22W Module
Luminaire Power (Typical)	25W/m	41W/m
Luminaire Lumens	2908 lms/m	4851 lms/m

Colour Temperature — 2700K / 3000K / 3500K / 4000K / Tunable White (2700K to 6500K)
CRI — 93
LED Board Increments — 280mm
Beam Angle — Double Asymmetric, Single Asymmetric, Narrow - 60°, Oval - 70°x27°, Wide - 90°
Binning (SDCM) — 3
LM-80/TM-21 Lifespan — L90 B10 > 42,000 hours / L80 B10 > 72,000 hours
Max. Verified Ambient Temperature — 40°C
Max. Interconnectable Run Length — 50m (Dependant on module configuration)

VL9050 Family Options
Mini-Spots
Global Track
Blanking Sections

PHOTOMETRICS

Double Asymmetric 'Batwing' (CLB)

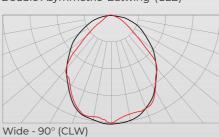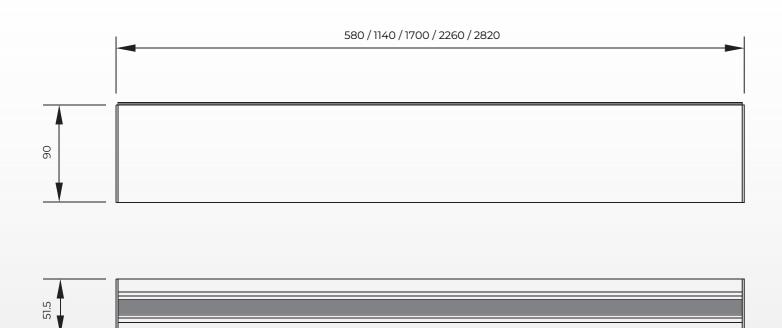Single Asymmetric (CLA)

Narrow - 60° (CLN)

Wide - 90° (CLW)

Oval - 70° x 27° (CLO)

SPECIFICATION CODE

PRODUCT	WATTAGE	MODEL	INSTALL TYPE	LUMINAIRE LENGTH	FINISH	COLOUR TEMPERATURE	DIMMING
VL9050	**13**	**CLO**	**R**	**2262**	**WT**	**930**	**DALI**
(VL9050 Product Family)	(13) 2908 lms/m (22) 4851 lms/m	(CLB) Batwing (CLA) Asymmetric (CLN) Narrow - 60° (CLO) Oval - 70° x 27° (CLW) Wide - 90°	(R) Recessed	Run length in mm.	(BT) Black Texture Powdercoat (WT) White Texture Powdercoat (SP) Other	(927) 2700K (930) 3000K (935) 3500K (940) 4000K (TW) Tunable White	(F) Fixed Output (DALI) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

VL9050 Diffused

580 / 1140 / 1700 / 2260 / 2820

90

51.5

COLOUR METRICS

3000K

4000K

	3000K		4000K
R1	94	R1	94
R2	96	R2	96
R3	96	R3	95
R4	94	R4	94
R5	94	R5	93
R6	94	R6	92
R7	94	R7	96
R8	87	R8	90
R9	70	R9	75
R10	90	R10	89
R11	94	R11	93
R12	80	R12	72
R13	85	R13	95
R14	97	R14	97
R15	92	R15	93

TECHNICAL INFORMATION

Mounting
Location — Surface / Suspended / Wall
Type — Dependant on location. Options include Wire Suspension Kit, Rod Suspension Wall Mount Bracket
Ingress Protection — IP40

Electrical
Input Voltage — 220-240V ac 50/60Hz
Dimming — Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location — Integral
Electrical Connection Type — Hard Wired or Clear Flex
Input Cable Length — 2500mm
Interconnection Between Fixtures — Male / Female Factory Fitted Connectors

Dimension
Width — 51.5mm
Height — 90mm
Weight — 2.9kgs/m
Maximum Single Luminaire Length — 2820mm
Finished Fixture Length — LED Module Increments + 20mm

Light

	13W Module	22W Module
Luminaire Power (Typical)	25W/m	41W/m
Luminaire Lumens	1890 lms/m	2838 lms/m

Colour Temperature — 2700K / 3000K / 3500K / 4000K / Tunable White (2700K to 6500K)
CRI — 93
LED Board Increments — 70mm
Beam Angle — Diffused - 120°
Binning (SDCM) — 3
LM-80/TM-21 Lifespan — L90 B10 > 42,000 hours / L80 B10 > 72,000 hours
Max. Verified Ambient Temperature — 40°C
Max. Interconnectable Run Length — 50m (Dependant on module configuration)

VL9050 Family Options
Uplighter
Mini-Spots
Global Track
Blanking Sections

PHOTOMETRICS

Diffused Opal Cover (DOC)

SPECIFICATION CODE

PRODUCT	WATTAGE	MODEL	INSTALL TYPE	LUMINAIRE LENGTH	FINISH	COLOUR TEMPERATURE	DIMMING
VL9050	**13**	**DOC**	**SM**	**2820**	**BT**	**930**	**DALI**
(VL9050 Product Family)	(13) 1890 lms/m (22) 2838 lms/m	(DOC) Diffused Opal Cover	(SM) Surface Mount (SU) Suspended (WM) Wall Mount	Run length in mm.	(BT) Black Texture Powdercoat (WT) White Texture Powdercoat (SP) Other	(927) 2700K (930) 3000K (935) 3500K (940) 4000K (TW) Tunable White	(F) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

VL9050R Diffused

582 / 1142 / 1702 / 2262 / 2822

90

72

COLOUR METRICS

3000K

4000K

TECHNICAL INFORMATION

Mounting
Location	Recessed
Type	Swing Brackets
Ingress Protection	IP40

Electrical
Input Voltage	220-240V ac 50/60Hz
Dimming	Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location	Integral
Electrical Connection Type	Hard Wired
Input Cable Length	N/A
Interconnection Between Fixtures	Male / Female Factory Fitted Connectors

Dimension
Width	72mm (including flanges)
Cutout Width	60mm
Height	90mm
Weight	3.1kgs/m
Maximum Single Luminaire Length	2822mm (incl trimkit)
Finished Fixture Length / Cutout Length	LED Module Increments + 22mm

Light
	13W Module	22W Module
Luminaire Power (Typical)	25W/m	41W/m
Luminaire Lumens	1890 lms/m	2838 lms/m

Colour Temperature	2700K / 3000K / 3500K / 4000K / Tunable White (2700K to 6500K)
CRI	93
LED Board Increments	140mm
Beam Angle	Diffused - 120°
Binning (SDCM)	3
LM-80/TM-21 Lifespan	L90 B10 > 42,000 hours / L80 B10 > 72,000 hours
Max. Verified Ambient Temperature Max.	40°C
Interconnectable Run Length	50m (Dependant on module configuration)

VL9050 Family Options
Mini-Spots
Global Track
Blanking Sections

PHOTOMETRICS

Diffused Opal Cover (DOC)

SPECIFICATION CODE

PRODUCT	WATTAGE	MODEL	INSTALL TYPE	LUMINAIRE LENGTH	FINISH	COLOUR TEMPERATURE	DIMMING
VL9050	**13**	**DOC**	**SM**	**2820**	**BT**	**930**	**DALI**
(VL9050 Product Family)	(13) 1890 lms/m (22) 2838 lms/m	(DOC) Diffused Opal Cover	(SM) Surface Mount (SU) Suspended (WM) Wall Mount	Run length in mm.	(BT) Black Texture Powdercoat (WT) White Texture Powdercoat (SP) Other	(927) 2700K (930) 3000K (935) 3500K (940) 4000K (TW) Tunable White	(F) Fixed Output (DALI) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

VL9050 Louvered

580 / 1140 / 1700 / 2260 / 2820

90

51.5

COLOUR METRICS

3000K

4000K

TECHNICAL INFORMATION

Mounting
Location — Surface / Suspended / Wall
Type — Dependant on location. Options include Wire Suspension Kit, Rod Suspension Wall Mount Bracket
Ingress Protection — IP40

Electrical
Input Voltage — 220-240V ac 50/60Hz
Dimming — Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location — Integral
Electrical Connection Type — Hardwired or Clear Flex
Input Cable Length — 2500mm
Interconnection Between Fixtures — Male / Female Factory Fitted Connectors

Dimension
Width — 51.5mm
Height — 90mm
Weight — 2.9kgs/m
Maximum Single Luminaire Length — 2820mm
Finished Fixture Length — LED Module Increments + 20mm

Light

	11W Module	17W Module
Luminaire Power (Typical)	21W/m	39W/m
Luminaire Lumens	2813 lms/m	3376lms/m

Colour Temperature — 2700K / 3000K / 3500K / 4000K / Tunable White (2700K to 6500K)
CRI — 93
LED Board Increments — 280mm
Beam Angle — Louver Black Inner - 60°, Louver Black Inner - 90°
Louver White Inner - 60°, Louver White Inner - 90°
Binning (SDCM) — 3
LM-80/TM-21 Lifespan — L80 B10 > 50,000 hours
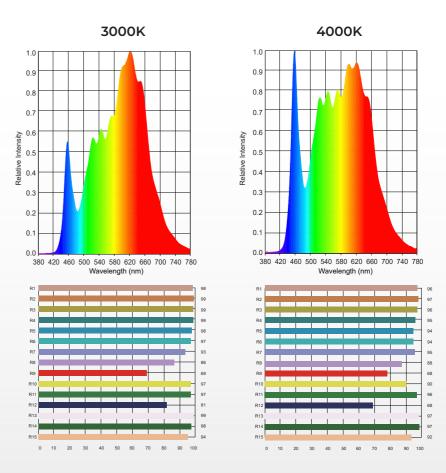Max. Verified Ambient Temperature — 40°C
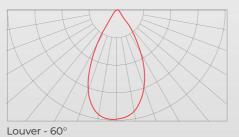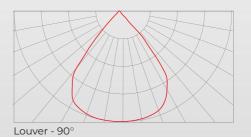Max. Interconnectable Run Length — 50m (Dependant on module configuration)

VL9050 Family Options
Uplighter
Mini-Spots
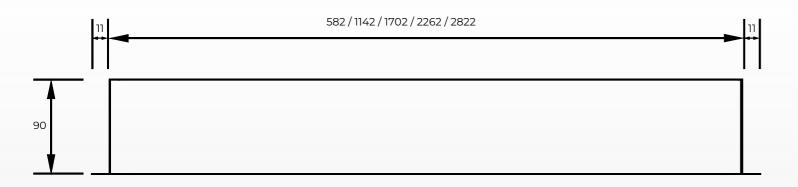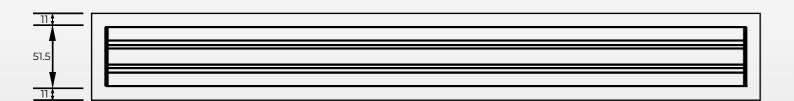Global Track
Blanking Sections

PHOTOMETRICS

Louver - 60°

Louver - 90°

SPECIFICATION CODE

PRODUCT	WATTAGE	MODEL	INSTALL TYPE	LUMINAIRE LENGTH	FINISH	COLOUR TEMPERATURE	DIMMING
VL9050	**11**	**LB6**	**SM**	**2820**	**BT**	**930**	**DALI**
(VL9050 Product Family)	(11) 2813 lms/m (17) 3376 lms/m	(LB6) Louver Black - 60° (LB9) Louver Black - 90° (LW6) Louver White - 60° (LW9) Louver White - 90°	(SM) Surface Mount (SU) Suspended (WM) Wall Mount	Run length in mm.	(BT) Black Texture Powdercoat (WT) White Texture Powdercoat (SP) Other	(927) 2700K (930) 3000K (935) 3500k (940) 4000K (TW) Tunable White	(F) Fixed Output (DALI) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

VL9050R Louvered

MEASUREMENT

582 / 1142 / 1702 / 2262 / 2822

11   11

90

11
51.5
11

TECHNICAL INFORMATION

Mounting
Location — Recessed
Type — Swing Brackets
Ingress Protection — IP40

Electrical
Input Voltage — 220-240V ac 50/60Hz
Dimming — Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location — Integral
Electrical Connection Type — Hardwired
Interconnection Between Fixtures — Male / Female Factory Fitted Connectors

Dimension
Width — 72mm (including flanges)
Cutout Width — 60mm
Height — 90mm
Weight — 3.1kgs/m
Maximum Single Luminaire Length — 2822mm (incl trimkit)
Finished Fixture Length / Cutout Length — LED Module Increments + 22mm

Light

	11W Module	17W Module
Luminaire Power (Typical)	21W/m	39W/m
Luminaire Lumens	2813 lms/m	3376 lms/m

Colour Temperature — 2700K / 3000K / 3500K / 4000K / Tunable White (2700K to 6500K)
CRI — 93
LED Board Increments — 280mm
Beam Angle — Louver Black Inner - 60°, Louver Black Inner - 90°
Louver White Inner - 60°, Louver White Inner - 90°
Binning (SDCM) — 3
LM-80/TM-21 Lifespan — L80 B10 > 50,000 hours
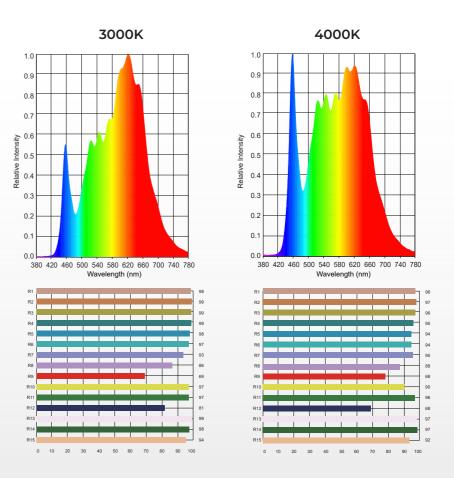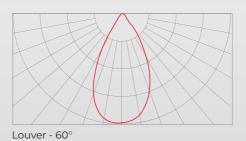Max. Verified Ambient Temperature Max. — 40°C
Interconnectable Run Length — 50m (Dependant on module configuration)

VL9050 Family Options
Mini-Spots
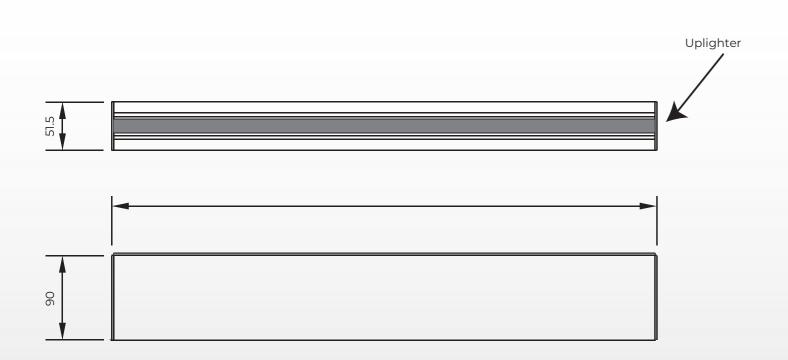Global Track
Blanking Sections

COLOUR METRICS

3000K

4000K

PHOTOMETRICS

Louver - 60°

Louver - 90°

SPECIFICATION CODE

PRODUCT	WATTAGE	MODEL	INSTALL TYPE	LUMINAIRE LENGTH	FINISH	COLOUR TEMPERATURE	DIMMING
VL9050	**11**	**LB6**	**R**	**2262**	**WT**	**930**	**DALI**
(VL9050 Product Family)	(11) 2813 lms/m (17) 3376 lms/m	(LB6) Louver Black - 60° (LB9) Louver Black - 90° (LW6) Louver White - 60° (LW9) Louver White - 90°	(R) Recessed	Run length in mm.	(BT) Black Texture Powdercoat (WT) White Texture Powdercoat (SP) Other	(927) 2700K (930) 3000K (935) 3500K (940) 4000K (TW) Tunable White	(F) Fixed Output (DALI) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

VL9050 Uplighter

Uplighter

51.5

90

2400K

2700K

3000K

4000K

TECHNICAL INFORMATION

Mounting
Location — On top of suspended VL9050
Ingress Protection — IP40

Electrical
Input Voltage — 24V DC Constant Voltage
Dimming — Fixed Output, DALI & Push Dim, 1-10V, Casambi
Driver Location — Integral
Independent Switching — Optional
Interconnection Between Fixtures — Male / Female Factory Fitted Connectors

Dimension
Width — 18mm
Weight — 0.16kgs/m
Maximum Single Luminaire Length — 2800mm
Finished Fixture Length — Finished Fixture Length of VL9050 Body minus 50mm

Light	5W	10W	20W	RGBW	TW
LED Strip Power (Typical)	4.8W/m	7.9W/m	16.6W/m	25.2W/m	19.2W/m
Luminaire Lumens with Frosted Diffuser	412 lms/m	701 lms/m	1392 lms/m	1239 lms/m	1587 lms/m
Luminaire Lumens with Matte Diffuser	246 lms/m	418 lms/m	831 lms/m	739 lms/m	947 lms/m

#Lumens based on 4000K

Colour Temperature — 2700K / 3000K / 3500K / 4000K / Tunable White / RGBW
CRI — 94 (Excl RGBW and TW)
LED Board Increments — 50mm (RGBW = 71.5mm)
Beam Angle — Symmetric
Binning (SDCM) — 3
LM-80/TM-21 Lifespan — L80 B10 > 50,000 hours
Max. Verified Ambient Temperature Max. — 40°C

PHOTOMETRICS

Frosted Diffuser (F)

Matte Diffuser (M)

SPECIFICATION CODE
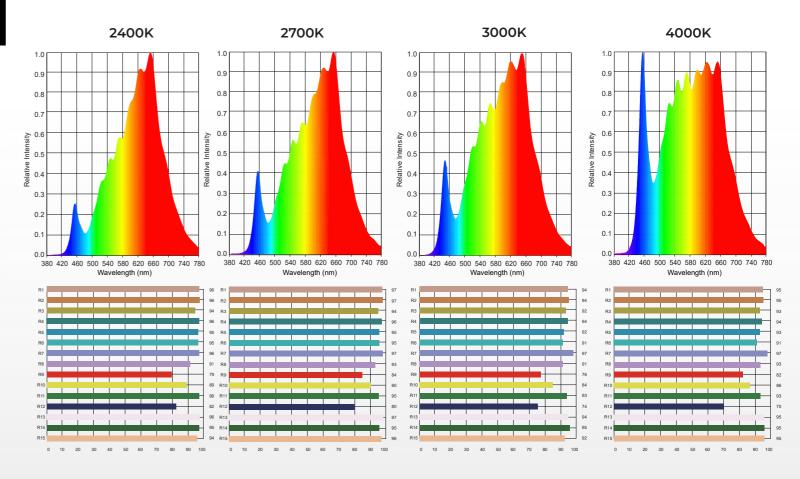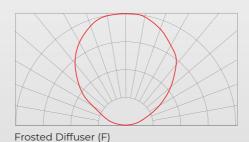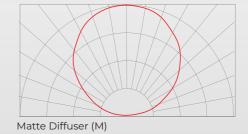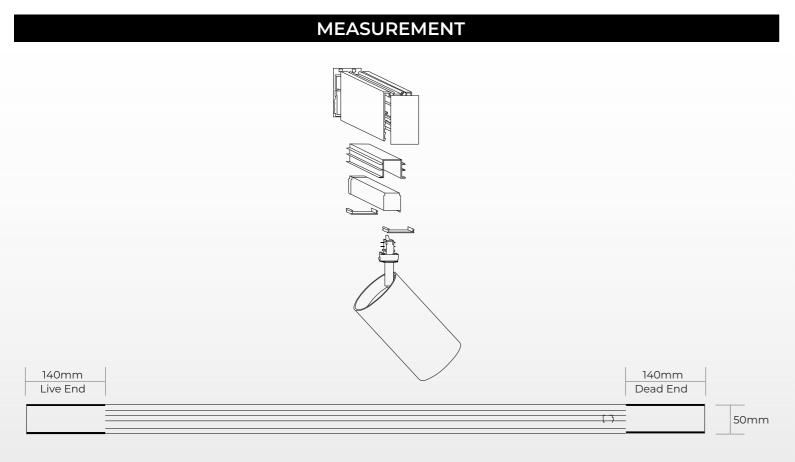
PRODUCT	WATTAGE	MODEL	SWITCHING	LUMINAIRE LENGTH	COLOUR TEMPERATURE	DIMMING
VL9050-UP	**5**	**F**	**IS**	**2800**	**930**	**DALI**
(VL9050 Uplighter)	(5) 4.8W/m (10) 7.9W/m (20) 19W/m (TW) Tunable White (RGBW) RGBW	(F) Frosted Diffuser (M) Matte Diffuser	(IS) Independent Switching (SS) Single Switching	Run length in mm.	(924) 2400K (927) 2700K (930) 3000K (935) 3500K (940) 4000K (TW) Tunable White (RGBW) RGBW	(F) Fixed Output (DALI) DALI & Push Dim (1-10V) 1-10V Dimmable (CAS) Casambi

Specification

Lighting Track System

140mm
Live End

140mm
Dead End

50mm

Both "Live End" and " Dead End" concealed by a clip- on blanking cover

TECHNICAL INFORMATION

Electrical
Input Voltage   220-230v ~ 50/60Hz
Dimming   Non Dimmable, DALI Dimmable, 1 - 10V, Phase Dim

LED Module Type   Lighting Track System
System Brand   Compatible with Global Track Pulse by Nordic
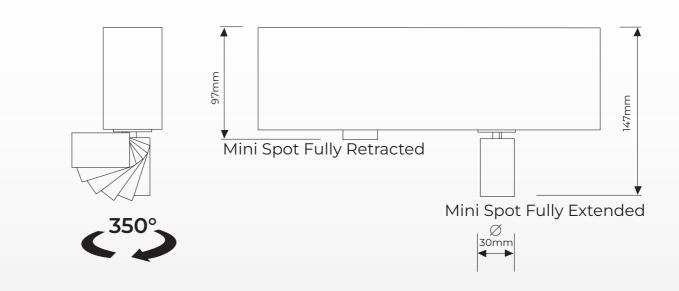Circuits   3

Note
All track mounted luminaires to be powered by the track lighting system will need an integrated power supply to operate.
Spotlights to be ordered separately.

SPECIFICATION CODE

PRODUCT	CIRCUITS	INPUT VOLTAGE	LUMINAIRE LENGTH	FINISH	DIMMING
VL9050- GTP	**3**	**220**	**15000**	**BL**	**DALI**
(Lightning Track System)		220-230v ~ 50/60Hz	Run length in mm.	(BL) Black (WH) White	(F) Non Dimmable (DALI) DALI Dimmable (1-10V) 1 - 10V (PCD) Phase Dim

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Specification

Mini Spots

97mm

147mm

Mini Spot Fully Retracted

Mini Spot Fully Extended

350°

∅ 30mm

TECHNICAL INFORMATION

Electrical
Input Voltage   220-230v ~ 50/60Hz
Dimming   Non Dimmable (F)

Light	**5W**	**9W**
Mini Spot Fixture Combinations	Single	Double
Module Configuration	1 x Spot	2 x Spot
Delivered Module Lumens	327	654
Module Amps	0.03A	0.05A

Colour Temperature   2700K / 3000K /4000K
CRI   90 CRI
Beam Optic   30°
Fixture Adjustability   0-90° Tilt, 350° Rotation
Colour Consistency   L70 B10 > 50,000 hours, <3 Step MacAdam
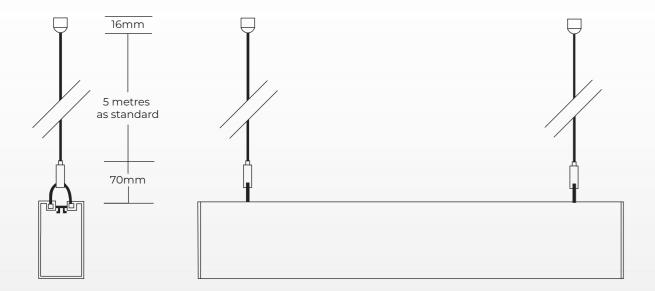TM-30 (3000K)   Rf 90, Rg 100
LED Module Type   Cree XHP35
#Lumens based on 4000K

SPECIFICATION CODE

PRODUCT	BEAM	COLOUR TEMPERATURE	FINISH	DIMMING
VL9050-MS	**30**	**940**	**WT**	**F**
Mini Spots	(30)30°	(927) 2700K (930) 3000K (940) 4000K	Black (BL) White (WH)	(F) Non Dimmable
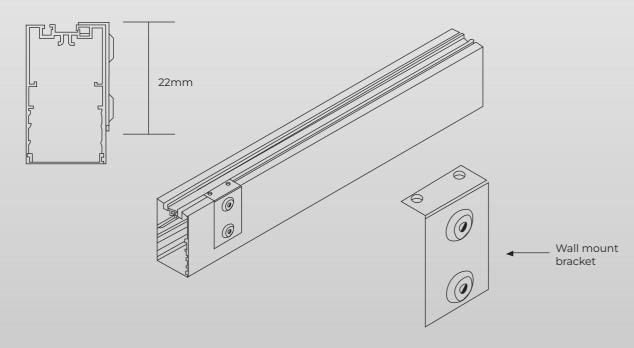
Mounting & Installation Accessories

WIRE SUSPENSION KIT

16mm

5 metres
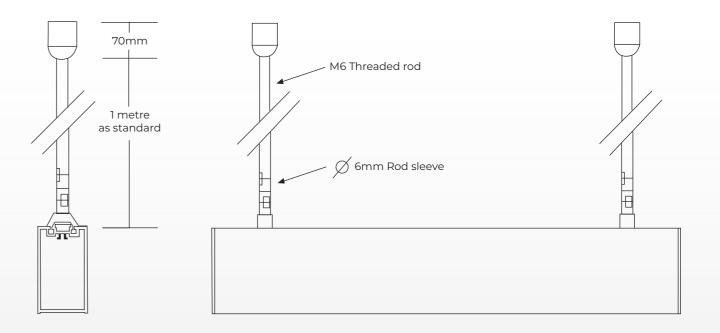as standard

70mm

Kit Supplied with: Ceiling attachment and cover
Balancing cylinder
Stainless steel suspension wire
Stainless steel wire stirrup

ROD SUSPENSION KIT

70mm

1 metre
as standard

M6 Threaded rod

Ø 6mm Rod sleeve

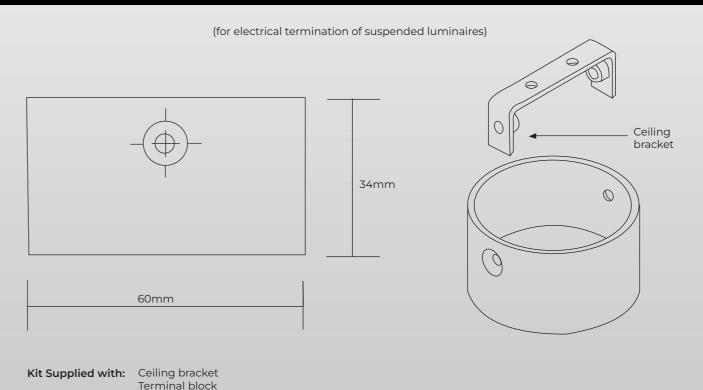**Kit Supplied with:**   Ceiling attachment and cover
1m length of threaded M6 rod and respective matching sleeve cover
Arbour connector
Specific fixings grub screws & M6 nuts

WALL MOUNT BRACKET

22mm

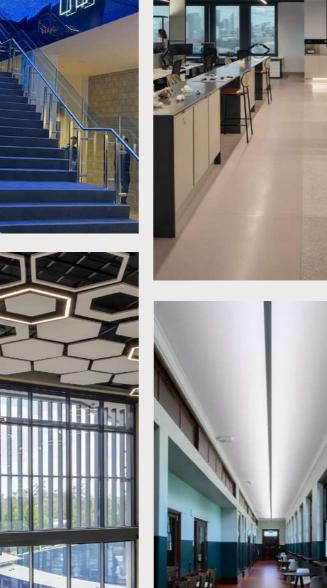Wall mount
bracket

Kit Supplied with: Wall mount bracket

CEILING ROSE

(for electrical termination of suspended luminaires)

34mm

60mm

Ceiling
bracket

Kit Supplied with: Ceiling bracket
Terminal block
Ceiling rose

Projects
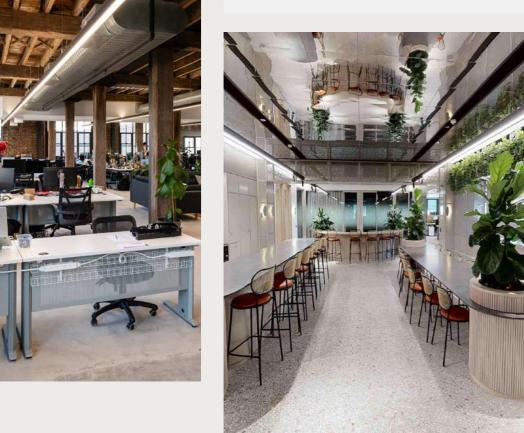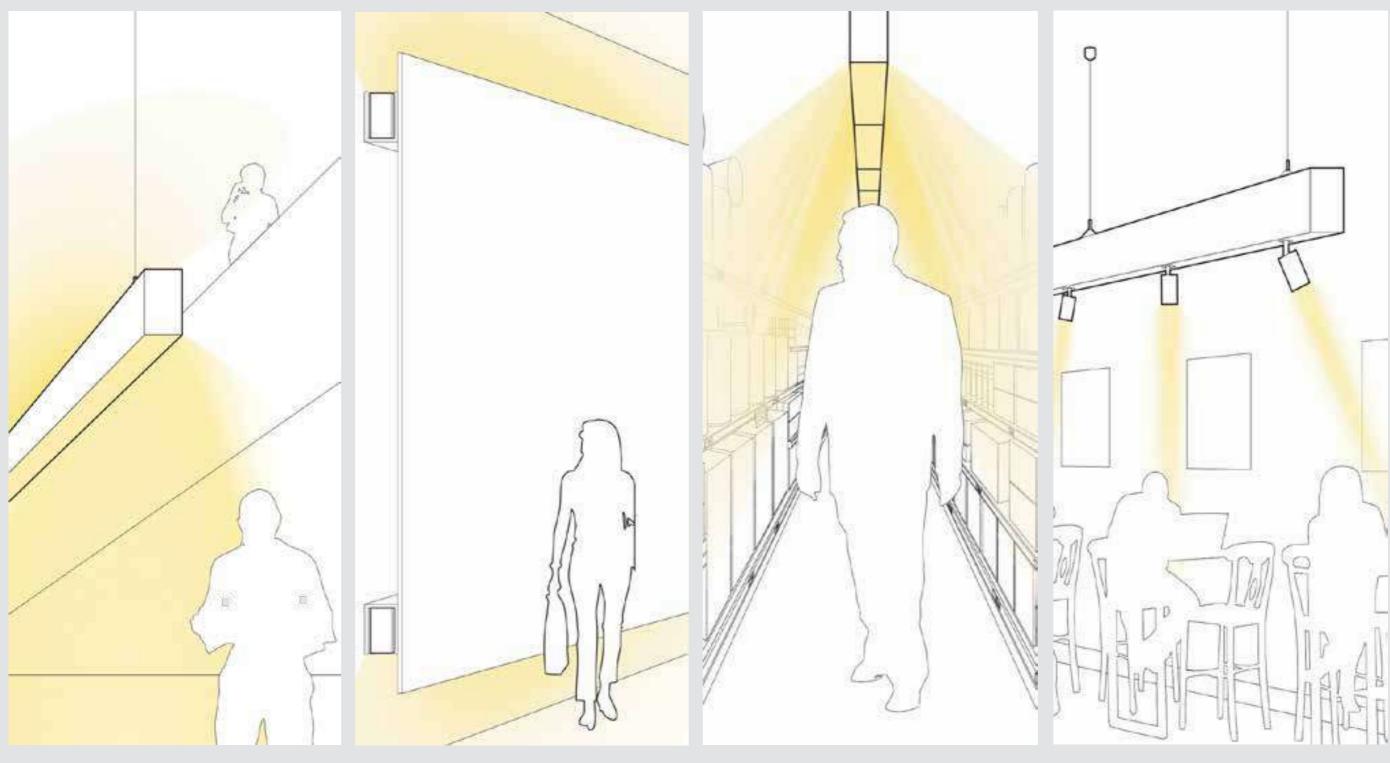
Versatile Design Application
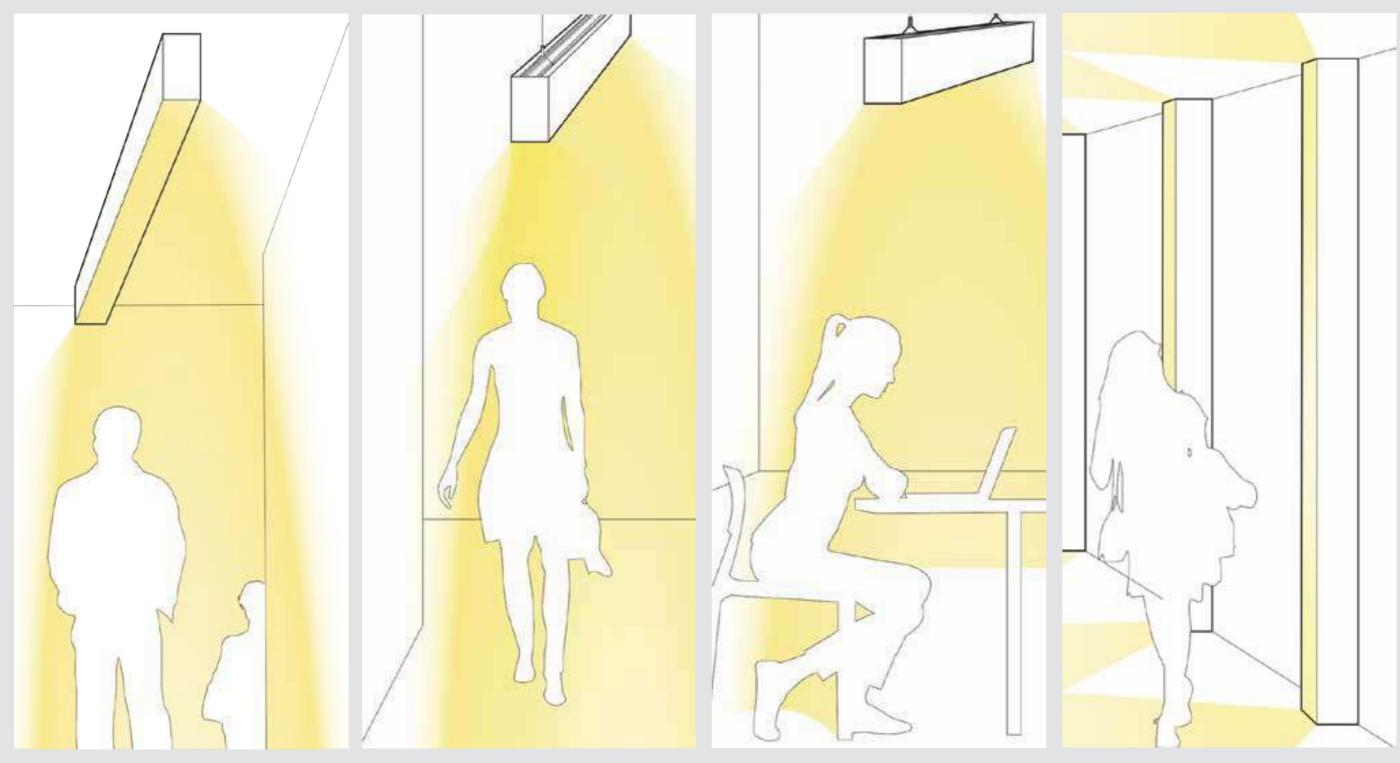
Suspended with an uplighter

Feature lighting - indirect illumination

Targeted vertical illumination on shelving using specialist linear optics
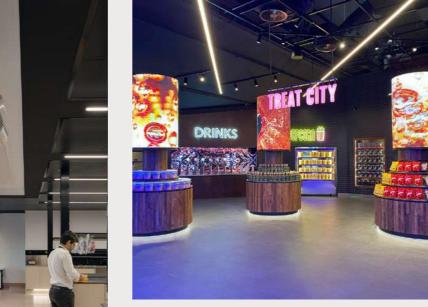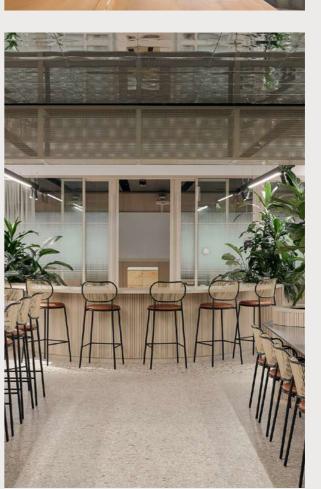
Spotlight illumination using integrated 3 circuit lighting track

Versatile Design Application

Surface mount - general illumination using a diffused optic

Suspended - general illumination of a space using diffused optic

Task illumination using low glare louver optic

Surface mount - vertical general illumination

We offer

CORNERS AND CUSTOM SHAPES

Custom Hexagon Shapes for Education and Innovation Centre

99 Colour Swatch used
in TM-30 Colour Analysis

a higher CRI produce more natural colours.

What is the
Colour Rendering Index (CRI)?

There are two main colour standards relating to methods of measuring the degree of colour shift a lit object undergoes when illuminated by a light source (i.e. an LED light source) co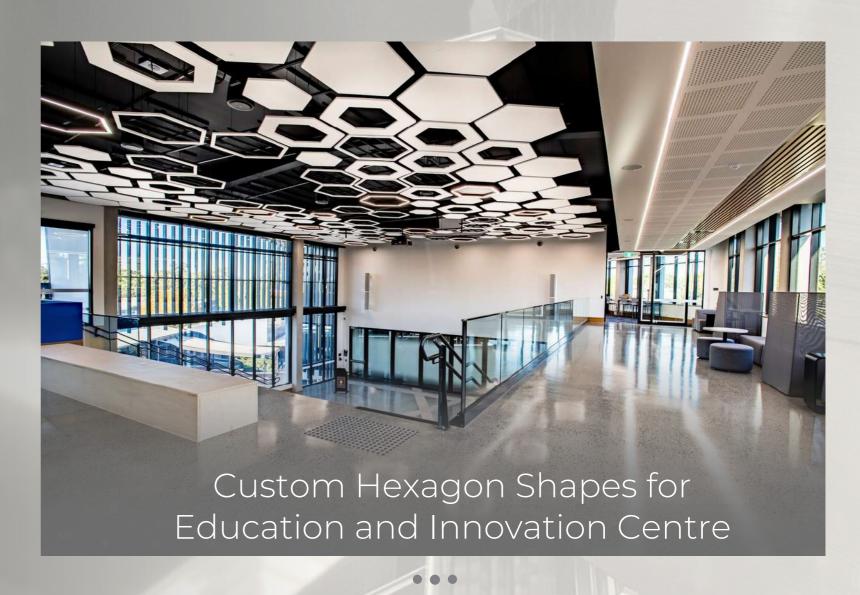mpared with the colour of that object when illuminated by a reference source (i.e. sunlight) using comparable colour temperatures. The most commonly used method, is the CIE 1995 method which breaks the spectrum into 15 reference colours and are measured on a scale of 1-100, the higher the number the better the light sources ability to render that colour.

This is generally what one is referencing when speaking about CRI. Whereas Testing Method 30 - 2015 (TM-30-15) is widely considered a more comprehensive method of evaluating colour rendering than the traditional CIE 1995 method.

What is
TM-30-15?

TM-30 testing uses two distinct values - Colour Fidelity (Rf): The closeness to the reference sample colour, similar to CIE 1995 method but with 99 colours. Colour Gamut (Rg): The saturation of a colour sample. Outputs from testing is in the form two images, a colour vector graphic and a colour distortion graphic. These images are able to portray the affects of any given light source on an environment.

Colour Rendering Quality is one of the most important aspects of professional lighting design. Obtaining great colour rendition is extremely important in producing a high quality visual experience for the end user.

The 'R9' Value is a common comparison point when discussing high quality LED luminaires. The 'R9' Value relates to red tones and a light sources ability to reproduce these tones. This tone in particular is such a crucial point in the index as red tones surround us everyday! From skin tones, clothing, and even at the supermarket.

Cyanosis Compliant

UGR Compliant

What is Cyanosis?

Cyanosis is the blu-ish tinge to skin and mucous membranes which indicates oxygen levels are dangerously low.

What is Cyanosis Compliant Lighting?

Cyanosis compliant lighting requires a specific part of the red visible spectrum which allows for true colour rendering of skin. If it slightly too high this could mask Cyanosis symptoms, oppositely a two higher red output could result in patients being treated for Cyanosis when in fact they do not suffer from cyanosis.

Where is Compliance to this standard required?

All medical and care institutions such as hospitals, aged care and day surgery centres. It is important for medical staff to be able to reliably detect the onset of cyanosis by visual observation.

The standard and how is it observed?

Compliance index – COI (Cyanosis Observation Index) and requires a value of <3.3 - Standard Reference: AS/NZS: 1680.2.5:2018

UGR Definition	UGR is a metric that quantifies the level of discomfort glare produced by a lighting installation. It helps in assessing how glare from the luminaire will affect occupants in the space.
UGR Value Guidelines	UGR values typically range from 10 (low glare) to 30 (high glare). Lower values indicate less glare and better visual comfort. Common recommendations: - Offices and classrooms: UGR < 19 - General indoor spaces: UGR < 22 - Industrial and retail environments: UGR < 25
Application-Specific Requirements	The acceptable UGR value may vary depending on the application and the specific activities performed in the space. For example, spaces requiring high levels of concentration, such as offices and educational facilities, require lower UGR values.
Luminaire Design	The design of the luminaire, including the shape, diffuser, and shielding, can significantly affect its UGR. Luminaires with well-designed optics and appropriate shielding can minimize glare.
Positioning and Installation	The placement and orientation of luminaires in relation to the occupants' line of sight can impact glare. Proper positioning can help achieve the desired UGR.
Reflective Surfaces	The presence of reflective surfaces in the environment, such as glossy desks or floors, can amplify glare. Choosing appropriate finishes and materials can help manage overall glare.
Brightness and Light Distribution	The brightness of the luminaire and how evenly it distributes light across the space play a role in perceived glare. Luminaires that provide uniform illumination are generally preferable.
Standards and Regulations	Ensure that the specified UGR values comply with relevant lighting standards and regulations, such as those set by the International Commission on Illumination (CIE) or local building codes.
User Comfort and Productivity	Low UGR values contribute to a more comfortable and productive environment by reducing eye strain and visual discomfort.
Simulation and Verification	Use lighting simulation software to predict UGR values in the design phase and verify that the installed luminaires meet the specified criteria.

By taking these points into account, you can ensure that the specified luminaires provide effective illumination while maintaining a comfortable and glare-free environment for occupants.

Glossary of terms

Ambient Temperature (Ta): The temperature surrounding the fixture during time of operation.

Ampere (Amp): The unit for measuring the rate of flow in an electrical current.

Candela: the unit of measure indicating the luminous intensity (candlepower) of a light source in a specific direction; any given light source will have many different intensities, depending upon the direction considered.

Casambi: A wireless lighting control system using Bluetooth. It allows for smart, flexible, and user-friendly control of lighting fixtures.

Colour Fidelity (Rf): The closeness to the reference sample colour measured by a number between 1 to 100. An element of TM-30 reporting. See page 10.

Colour Gamut (Rg): The saturation of a colour sample. While the value is represented by a number between 1 to 100, this number is also accompanied by two images depicting finer details. These images are a colour vector graphic and a colour distortion graphic. See page 10.

Colour Rendering Index (CRI): An international system used to rate a lamp (LED or Fluorescent or other) ability to render object colours. The higher the CRI (based on a scale of 1 to 100), the richer the colours generally appear. CRI differences among lamps are not usually visible to the eye unless the difference is more than 3-5 points.

Cyanosis Compliant: A method of lighting in the medical enviroment that requires a specific part of the red visible spectrum which allows for true colour rendering of skin tone. This allows for diagnosis of the medical cyanosis condition much earlier. See page 12.

DALI: A digital communications protocol for controlling and dimming lighting fixtures, originally developed in Europe by an industry organisation.

HE: A lower output high efficiency model.

HO: A high output, less efficient model.

Illuminance: the 'density' of the light (lumens/area) incident on a surface, ie. The light level on a surface. Illuminance is measured in Lux (lx).

Kelvin (K): A measurement of lamp colour. Generally, 3000K resembles the colour of a halogen lamp, 4000K resembles a crisp white lightRR

LED Module Wattage: The wattage of the LED only, this does not include the wattage of the LED driver.

Louver: A light fixture component designed to minimise glare from LED modules.

Lumens: A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides approximately 12 lumens. A 60-watt soft-white incandescent lamp provides approximately 840 lumens.

Luminaire: A complete lighting unit consisting of a lamp (or lamps), and driver (or ballast) together with the parts designed to distribute the light, position and protect the lamps, and connect them to a power supply. A luminaire is often referred to as a fixture.

Lux (lx): A unit of illuminance or light falling onto a surface. One lux is equal to one lumen per square meter. Ten lux approximately equals one foot-candle(fc).

MacAdam Ellipse: is the region on a chromaticity diagram which contains all colors which are indistinguishable, to the average human eye, from the color at the center of the ellipse.

Photometry: The measurement of light and related qualities.

Polar Curve: A graph of distribution of light intensity of luminaire and other light sources.

System: A term referring to the lamp and ballast combination, and sometimes the entire lighting delivery system including the fixture, the optics, the particular layout and the lighting controls. Many luminaires linked together could form a system.

Planckian locus: The locus of points on a chromaticity diagram that represents blackbody radiators at various temperatures.

TM-30: a method of measuring the degree of colour shift a lit object undergoes when illuminated by a light source (ie an LED light source) compared with the colour of that object when illuminated by a reference source (ie sunlight). This method is widely considered as a more comprehensive method of evaluation. See page 10.

UGR (Unified Glare Ratio): a method of calculating the glare in a space from all potential light sources, including luminaires. See page 12.

Versatile VL9050 Notes

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