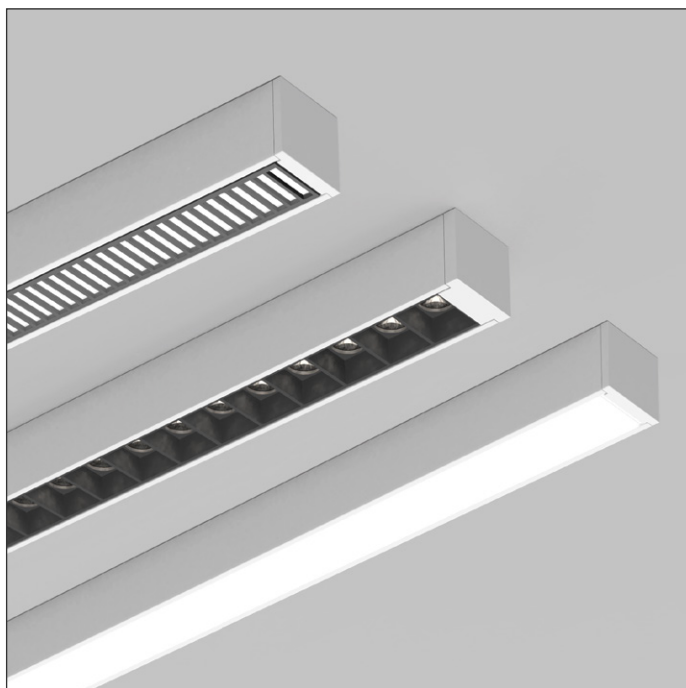
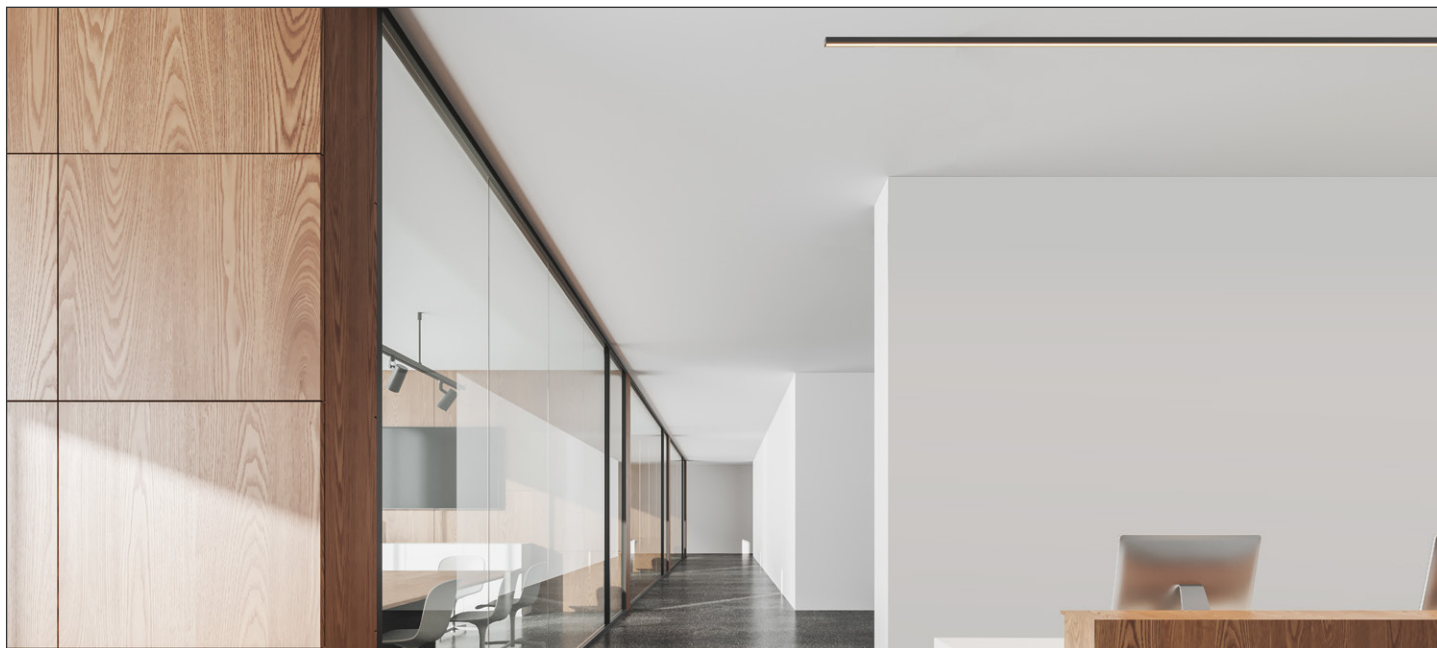


LUMAERA MiniSQ Surface



24mm Compact Linear LED Surface Mount



Remote Driver

Features & Benefits

Exceptional Performance

Up to 3,280 lm/m, 135 lm/W efficacy

Wide Range of LED Selections

Static, Tunable White, and Dim-to-Warm

Designed with Options

Wide choice of SmartOptic® lenses, beam distributions, 80/90/95+ CRI, 2200K to 5000K CCT, and 0-10V, DALI, DMX, and TRIAC dimming

Multiple Beamshapes

Clever beam shaping technology creates a range of options

Proprietary Optical Components

Provides excellent light distribution and high-transmission

Compliance

UKCA, CE, UL, Suitable for Dry and Damp Locations

5-Year Warranty

Standard 5-year warranty, 50,000 hours lifetime

FIXTURE ORDERING

Project Name

Fixture Type

1) FIXTURE TYPE & MOUNTING DESIGN

PRODUCT	LENGTH	FINISH	END CAP	OPTIC (Direct Only)
MNSQ24-S				
24mm Compact	610mm 610mm	MWH Matte White (RAL9003)	E1 Flat End Cap	OFL Flush Lens
Linear LED	1220mm 1220mm	MBK Matte Black (RAL9005)		OC Cavity Optics
Surface Mount	1830mm 1830mm	MGR Matte Gray (RAL7001)		OBWH Baffle, White
	2440mm 2440mm	CAE Clear Anodized Effect		OB BK Baffle, Black
	3048mm 3048mm	RAL_ Specify RAL#		

2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT
S80 Std. 80 CRI	2200K 2200K	DLAM Lambertian	1148 1148 lm/m
S90 Std. 90 CRI	2700K 2700K	DBW60 Batwing 60°	1640 1640 lm/m
HE80 High-Eff. 80 CRI	3000K 3000K	DDA70 Double Asymmetric 70°	2460 2,460 lm/m
HE90 High-Eff. 90 CRI	3500K 3500K	DA5025 Asymmetric 50° at 25° Tilt	3280 3,280 lm/m
HD95 High-Def. 95 CRI	4000K 4000K	DA4005 Asymmetric 40° at 5° Tilt	
SUN Full SunLike	5000K 5000K	DM55 Medium 55°	
SBIOS Static BIOS	3022D 3000K to 2200K Dim-to-Warm	DN40 Narrow 40°	
DBIOS Dynamic BIOS	3527D 3500K to 2700K Dim-to-Warm	DCO45 Cavity Optics 45°	
TBIOS Tunable White BIOS		DCO35 Cavity Optics 35°	
		DCO25 Cavity Optics 25°	

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	EMERGENCY BACKUP	REMOTE DRIVER BOX ¹
UNV 120/277V	NN Not Needed	NN Not Needed
347 347V	EMC Emergency Circuit	RLDB2² Remote Linear Driver Box (driver included by default)
	EMB Emergency Battery (Remote)	RX2D2² Optional Remote Xbox2 Driver, Up to 2 Drivers
		RX3D2² Optional Remote Xbox3 Driver, Up to 3 Drivers
		RX5D2² Optional Remote Xbox5 Driver, Up to 5 Drivers

4) FIXTURE TYPE & MOUNTING DESIGN

MOUNTING TYPE	POWER CORD	MOUNTING KIT
SC1 Surface Mount Clip	P12WH 1.2m White Cord (Ø 3mm)	SSMB Stainless Steel Surface Mounting Bracket
SM1 Surface Mount Magnet	P12BK 1.2m Black Cord (Ø 3mm)	
TC1 14mm Flat T-Bar Mount	P24WH 2.4m White Cord (Ø 3mm)	
TC2 14mm Bolt Slot T-Bar Mount	P24BK 2.4m Black Cord (Ø 3mm)	
TC3 24mm Flat T-Bar Mount		

¹Remote distance is dependent on driver type, up to 30.5 m.

²Creates a clean and organized power solution for multiple fixture installations.

³The control system and driver must be compatible.

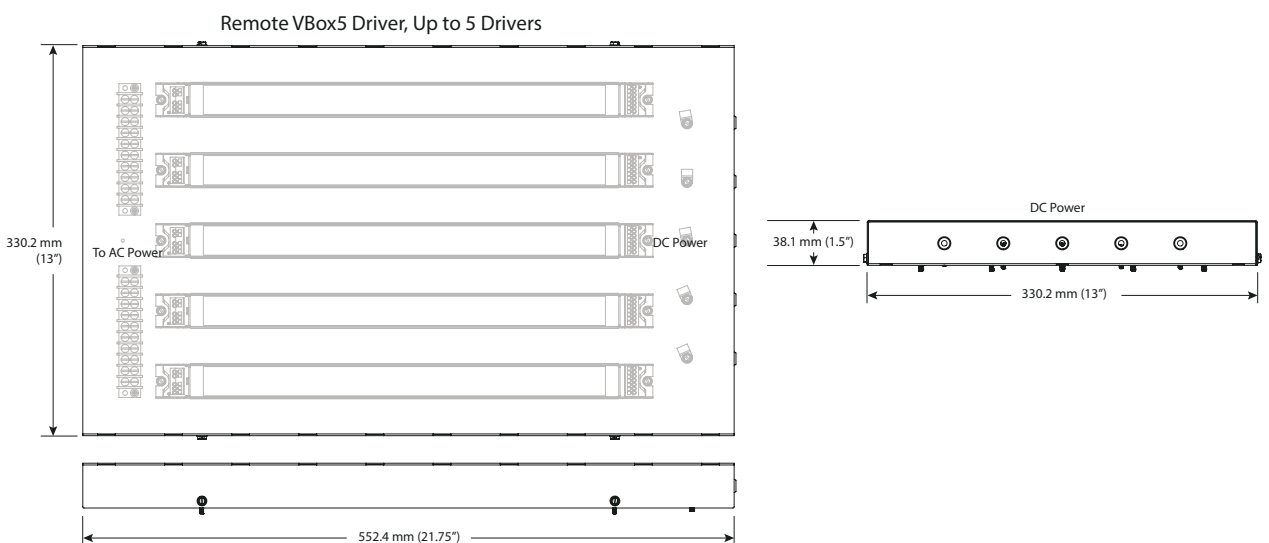
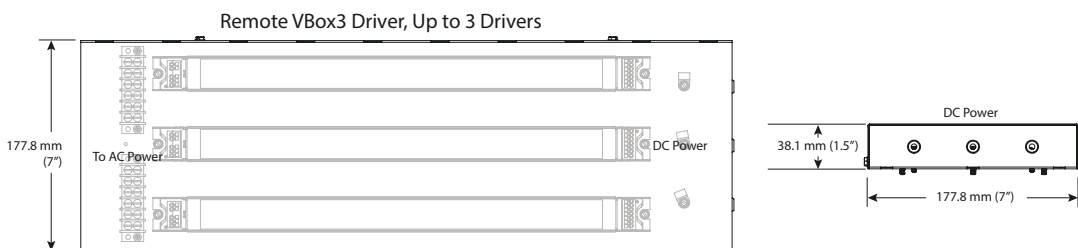
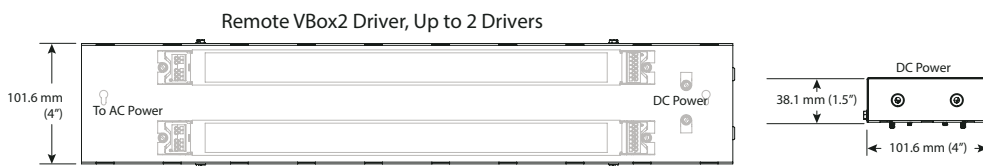
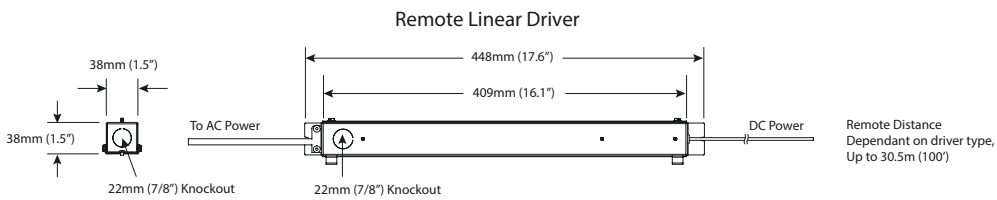
NOTES

Project Name

Fixture Type

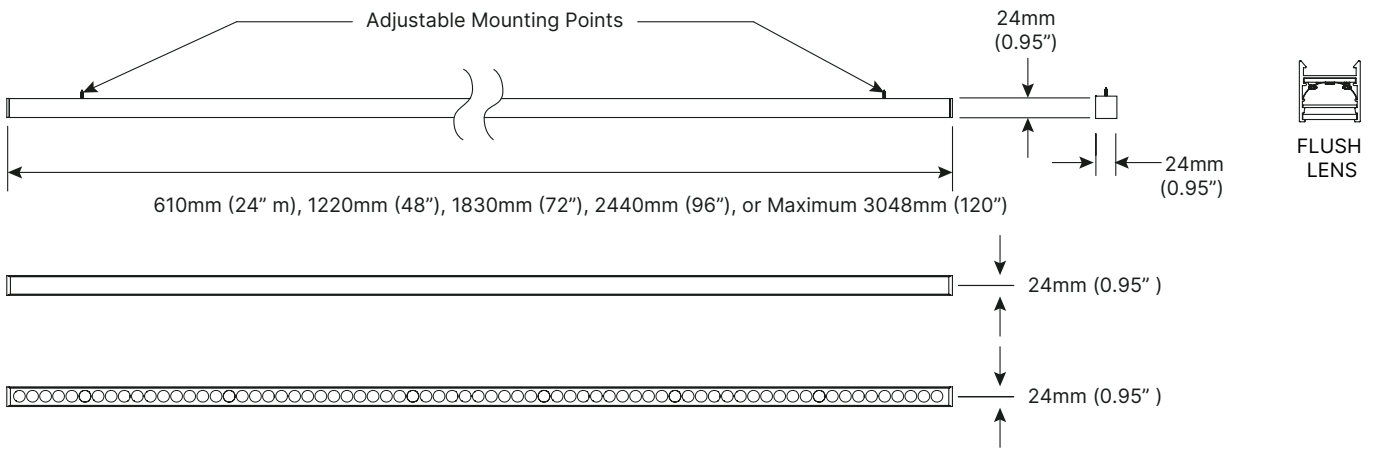
REMOTE DRIVER BOX

Dimensions



FIXTURE DESIGN

Dimensions



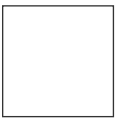
Length

Length Options

610mm, 1220mm, 1830mm, 2440mm, 3048mm nominal

Finish

Housing Colours (Matt Finish)



White (RAL9003)



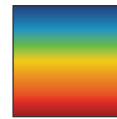
Black (RAL9005)



Gray (RAL7001)



Clear Anodised Effect



Custom RAL

Housing Material

6063-T5 extruded, recycled aluminum

Mounting Brackets

Sheet Metal

End Cap

End Cap Options

Flat

End Cap Material

Machined or Cast Aluminium

Optic

Lens Options

Flush, Cavity Optics and Baffle

Lens Material

Acrylic (PMMA)

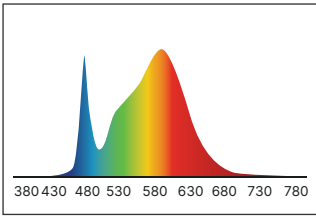
Voltage

Input Voltage (AC)

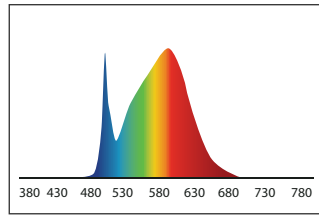
120/277 VAC and 347 VAC, 50/60Hz

LED SELECTION GUIDE

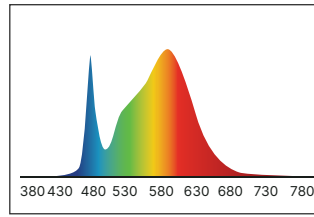
S80: Standard 80+ CRI



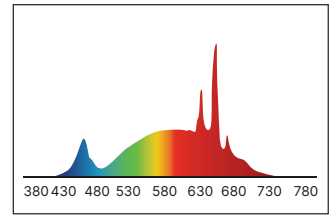
S90: Standard 90+ CRI



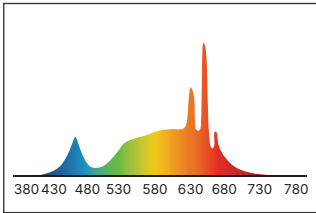
HE80: High-Efficiency 80+ CRI



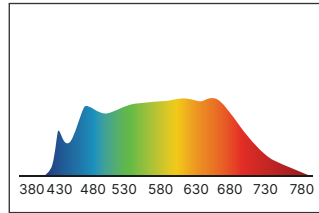
HE90: High-Efficiency 90+ CRI



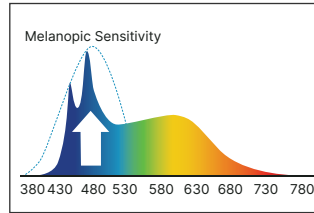
HD95: High-Definition 95+ CRI



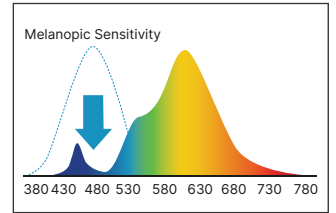
SUN: Full Spectrum "SunLike"



HCD: Human Centric Day



HCN: Human Centric Night



Static White Light (LED Light Engine Only)

CODE	DESCRIPTION	TYPICAL LED DATA							
		CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	M/P Ratio	LPW
S80	Standard 80 CRI	3500K	82.5	7.8	84	96.7	82.5	0.51	190
S90	Standard 90 CRI	3500K	91	54.3	89.3	98.9	89.2	0.55	175
HE80	High Efficiency 80 CRI	3500K	82.1	5.9	83	94.2	81.2	0.52	210
HE90	High Efficiency 90 CRI	3500K	92.2	90	90.7	103.8	92.1	0.56	190
HD95	High Definition 95 CRI	3500K	97.1	95	-	-	-	0.70	163
SUN	Full Spectrum SunLike®	3500K	95	85	-	-	-	-	130
HCD	Human Centric Day	4000K	83	95	-	-	-	0.92	155
HCN	Human Centric Night	2700K	80	-	-	-	-	0.44	134

Static White Light (LED Light Engine Only)

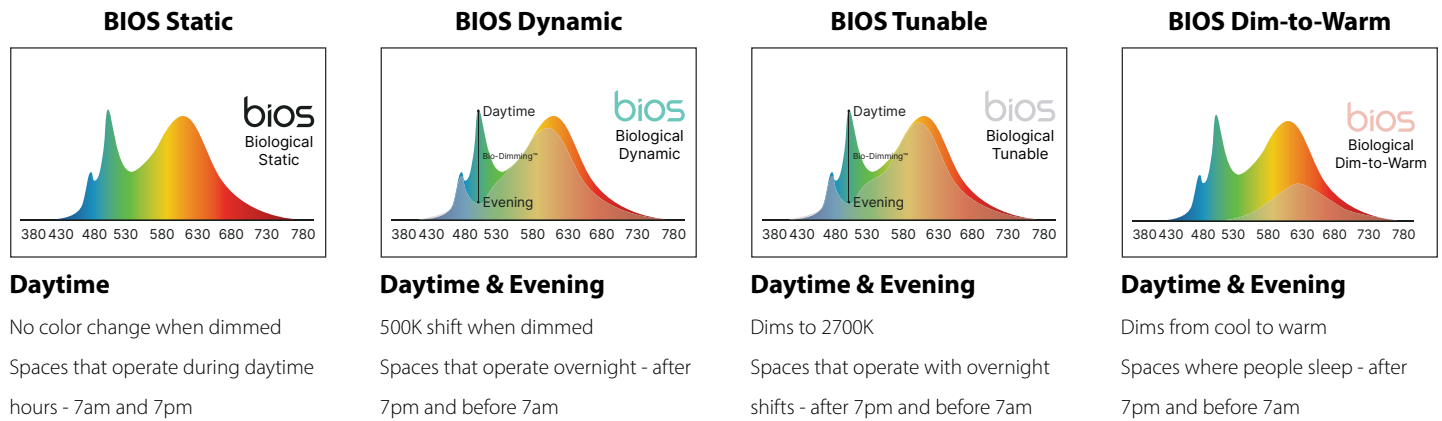
CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	-	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	-	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	-	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN	-	0.90	0.92	1.00	1.01	1.07	1.04	1.05
HCD	-	N/A	0.96	1.00	1.04	1.04	1.04	1.04
HCN	-	0.87	0.96	1.00	1.04	N/A	N/A	N/A

BIOS TECHNOLOGY

Choosing Your BIOS Solution

BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology - Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm.

BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural color temperatures.



Circadian and Human Centric Light

CODE	DESCRIPTION	BIO-DIMMING MODULE TECHNOLOGY GUIDE					
		Driver	Driver voltage	CCT	Requires BIO-Dimming Module	Lighting Control	BIOS SkyBlue (490nm)
SBIOS	BIOS Static	DIM1	0-10V Dimming to 1% Dim-to-Dark	No CCT Change	No	Intensity Dimming Control Only	Always Present
DBIOS	BIOS Dynamic	BIODIM1	0-10V Intensity Dimming to 1% Dim-to-Dark	500K Shift	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DBIOS-2	BIOS Dynamic (2 ch)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
TBIOS	BIOS Tunable	ATW/DTW	0-10V Control of Intensity & CCT on Separate 2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels	Dims to 2700K	Yes	Intensity Dimming & spectrum Change Controlled Together	Removed with BIO-Dimming
TBIOS-2	BIOS Tunable (2 ch)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
DWBIOS	BIOS Dim-to-Warm	-	-	Dims to 2200K	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DWBIOS-2	BIOS Dim-to-Warm (2 ch)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"

SMARTBEAM® TECHNOLOGY

The Ultimate Control of Lighting Distributions

SmartBeam makes it easy to specify the exact light required for any architectural space. Available in every Vexica indoor product; it is now possible to create truly tailored and engaging lighting that transform spaces, improves visual comfort, and saves energy.

FIXTURE POWER & CONTROLS

Voltage

LED Driver Factory Selected, 36–39V Constant Current

Emergency Backup

Backup Types Emergency Circuit, Emergency Battery (Remote), and other emergency backups are available

Wiring Typically the Emergency Backup is wired to 1.2m sections

Power 10W

Illumination Time 90 Minutes

Partners



Control Systems (Remote Drivers - Sold Separately)

Other Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim, and other drivers are available, consult factory (not all integral)

Lutron Hi-Lume 1% Dimming and 5-Series 5% Dimming

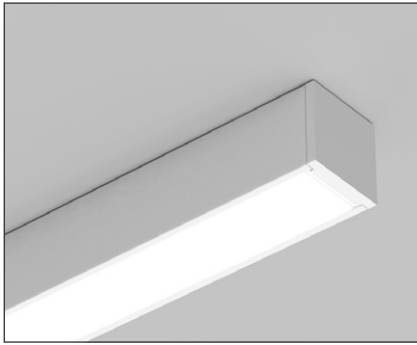
Cooper Compatible driver

Casambi (Wireless) Compatible driver

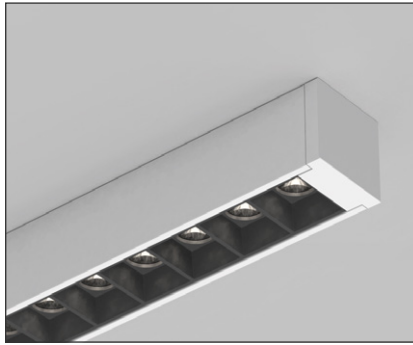
VBOX

Remote Driver Boxes (Optional) To create a clean and organized power solution for multiple fixture installations we have our VBox solution. Reach out to your Vexica Sales Representative for more information.

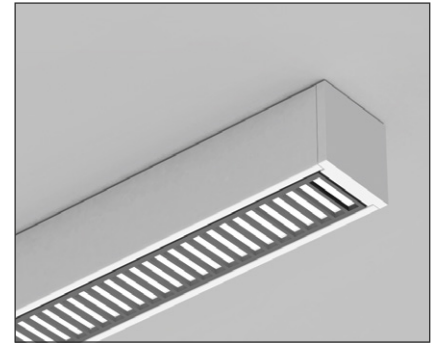
OPTICS OPTIONS



Flush Lens



Cavity Optics



Baffles (Black or White)

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

T-Bar Mount

Installs into a ceiling grid system and mount on to, or replace, typical T-Bar elements.

Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

Surface Mount

Installs onto a surface via clip or magnet. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

Power Cords

1.2m Cable Kit

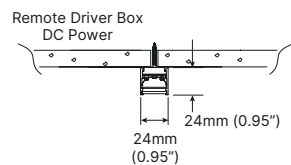
White and Black

2.4m Cable Kit

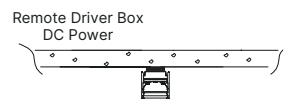
White and Black

Mounting Options

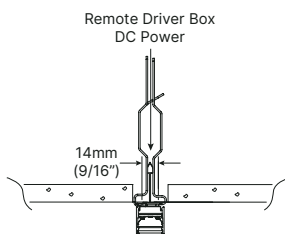
SC1 - Surface Mount Clip



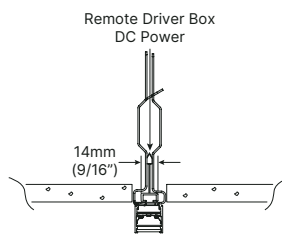
SM1 - Surface Mount Magnet



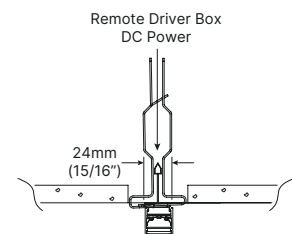
TC1 - 14mm Flat T-Bar Mount Clip



TC2 - 14mm Bolt Slot T-Bar Mount Clip

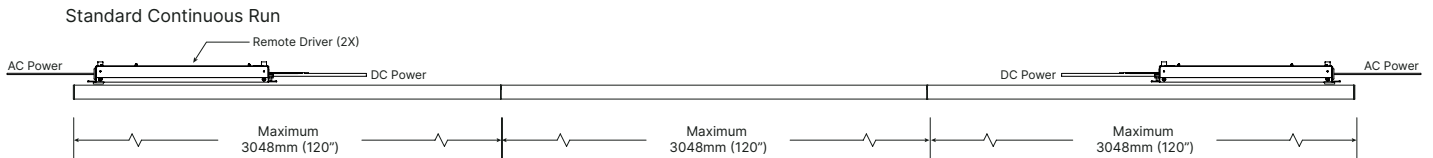
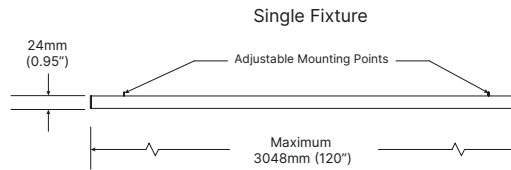


TC3 - 24mm Flat T-Bar Mount Clip

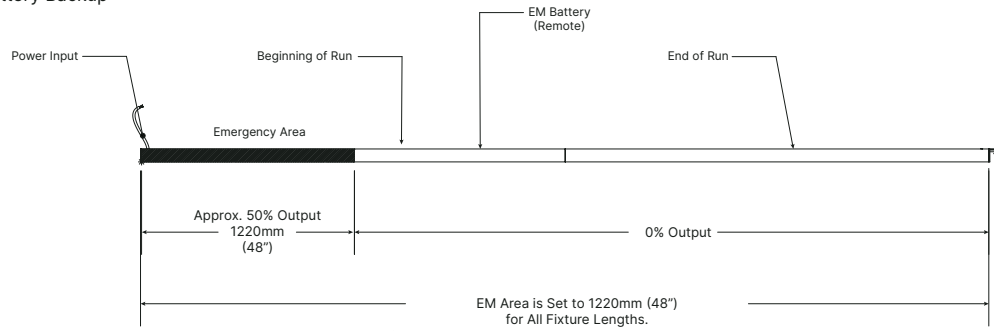


Standard Lengths & Continuous Runs

Maximum length of one fixture is 3048mm. Longer runs can be produced by joining sections. Customer approval of shop drawings is required prior to build of any non-standard length order.



Emergency Battery Backup



Fixtures Normal Power Maximum Output Level Set at Factory
 Battery Power: 10 W
 Illumination Time: 90 minutes
 Light Output approx 984 lm/m or 1200-1300 Total Lumens*
 Recharge Time: 24 Hours

*Light output may vary based on fixture output level ordered.

BEAM PATTERN SELECTION GUIDE

Beam Pattern Availability

OPTIC	BEAM PATTERN									
	DLAM	DBW60	DDA70	DA5025	DA4005	DM55	DN40	DCO45	DCO35	DCO25
Flush Lens	*	*	*	*	*	*	*			
Baffle	*	*	*	*	*	*	*			
Cavity Optics (CO)								*	*	*

Direct Photometrics Static White Light

DLAM Lambertian	DBW60 Batwing 60°	DDA70 Double Asymmetric 70°	DA5025 Asymmetric 50° at 60° Tilt	DA4005 Asymmetric 40° at 5° Tilt
Length 1220mm	Length 1220mm	Length 1220mm	Length 1220mm	Length 1220mm
LED HE80	LED HE80	LED HE80	LED HE80	LED HE80
CRI/CCT 80+/3500K	CRI/CCT 80+/3500K	CRI/CCT 80+/3500K	CRI/CCT 80+/3500K	CRI/CCT 80+/3500K
Lumens 3,000	Lumens 3,000	Lumens 3,000	Lumens 3,000	Lumens 3,000
lm/m 2,510	lm/m 2,441	lm/m 2,493	lm/m 2,457	lm/m 2,421
Watts 27	Watts 24	Watts 25	Watts 23	Watts 23
W/m 22.6	W/m 19.8	W/m 20.3	W/m 18.9	W/m 18.9
LPW 111	LPW 123	LPW 123	LPW 130	LPW 128

DM55 Medium 55°	DN40 Narrow 40°	DCO45 Cavity Optic 45°	DCO35 Cavity Optic 35°	DCO25 Cavity Optic 25°
Length 1220mm	Length 1220mm	Length 1220mm	Length 1220mm	Length 1220mm
LED HE80	LED HE80	LED HE80	LED HE80	LED HE80
CRI/CCT 80+/3500K	CRI/CCT 80+/3500K	CRI/CCT 80+/3500K	CRI/CCT 80+/3500K	CRI/CCT 80+/3500K
Lumens 3,000	Lumens 3,000	Lumens 3,000	Lumens 3,000	Lumens 3,000
lm/m 2,434	lm/m 2,447	lm/m 2,461	lm/m 2,457	lm/m 2,461
Watts 23	Watts 26	Watts 37	Watts 37	Watts 37
W/m 18.9	W/m 21.1	W/m 30	W/m 30	W/m 30
LPW 129	LPW 116	LPW 82	LPW 82	LPW 82

STANDARDS & CERTIFICATIONS

Compliance

Standard Marks



Environmental Suitability

IP Rating

Suitable for Dry and Damp Locations, indoor use only

Sustainability

Responsibly manufactured from materials that are free from 'Red List' chemicals

Recyclable

Optics and all powder coated and anodized parts are fully recyclable at end of life

Reliability

Manufacturing

All Vexica products are manufactured in our UK-based factory using ethically sourced components from internationally recognised 'tier 1' suppliers

Quality Assurance

Each product is designed and manufactured for reliability and each batch undergoes through quality assurance testing

Warranty & Terms

5 Year Warranty



Terms & Conditions



For details on our warranty and business terms, please click or scan the QR Code.