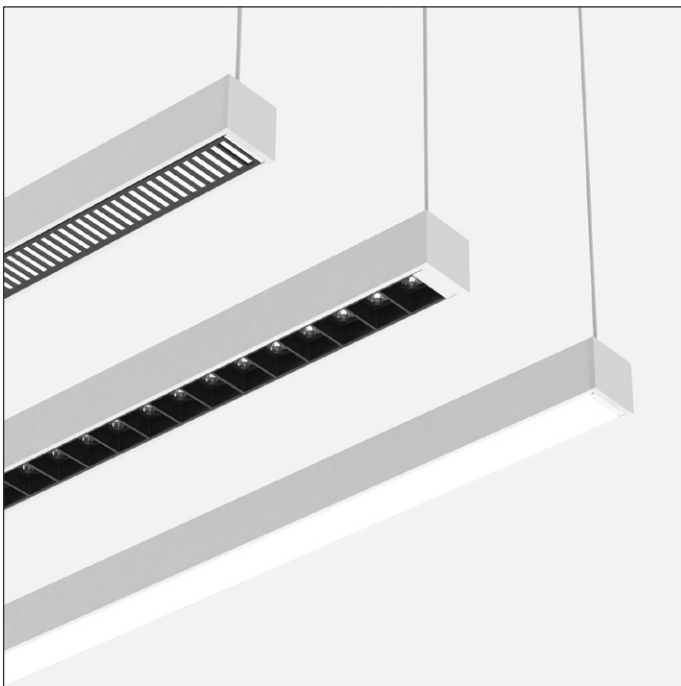


# LUMAERA MiniSQ Pendant



24mm Compact Linear LED Pendant 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)
<b>MNSQ24-P</b>				
24mm Compact Linear LED Pendant Mount	<b>610mm</b> 610mm <b>1220mm</b> 1220mm <b>1830mm</b> 1830mm <b>2440mm</b> 2440mm <b>3048mm</b> 3048mm	<b>MWH</b> Matte White (RAL9003) <b>MBK</b> Matte Black (RAL9005) <b>MGR</b> Matte Gray (RAL7001) <b>CAE</b> Clear Anodized Effect <b>RAL_</b> Specify RAL#	<b>E1</b> Flat End Cap	<b>OFL</b> Flush Lens <b>OC</b> Cavity Optics <b>OBWH</b> Baffle, White <b>OBBK</b> Baffle, Black

### 2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT	INDIRECT BEAM PATTERN	INDIRECT OUTPUT
<b>S80</b> Std. 80 CRI	<b>2200K</b> 2200K	<b>DLAM</b> Lambertian	<b>1148</b> 1148 lm/m	<b>NN</b> Not Needed	<b>NN</b> Not Needed
<b>S90</b> Std. 90 CRI	<b>2700K</b> 2700K	<b>DBW60</b> Batwing 60°	<b>1640</b> 1640 lm/m	<b>ILAM</b> Lambertian	<b>1148</b> 1148 lm/m
<b>HE80</b> High-Eff. 80 CRI	<b>3000K</b> 3000K	<b>DDA70</b> Double Asymmetric 70°	<b>2460</b> 2,460 lm/m	<b>IBW120</b> Batwing 120°	<b>1640</b> 1640 lm/m
<b>HE90</b> High-Eff. 90 CRI	<b>3500K</b> 3500K	<b>DA5025</b> Asymmetric 50° at 25° Tilt	<b>3280</b> 3,280 lm/m	<b>IFT150</b> FlatTop 150°	<b>2460</b> 2,460 lm/m
<b>HD95</b> High-Def. 95 CRI	<b>4000K</b> 4000K	<b>DA4005</b> Asymmetric 40° at 5° Tilt		<b>IA6040</b> Asymmetric 60° at 40° Tilt	<b>3280</b> 3,280 lm/m
<b>SUN</b> Full SunLike	<b>5000K</b> 5000K			<b>IA4560</b> Asymmetric 45° at 60° Tilt	
<b>SBIOS</b> Static BIOS	<b>3022D</b> 3000K to 2200K Dim-to-Warm	<b>DM55</b> Medium 55°			
<b>DBIOS</b> Dynamic BIOS		<b>DN40</b> Narrow 40°			
<b>TBIOS</b> Tunable White BIOS	<b>3527D</b> 3500K to 2700K Dim-to-Warm	<b>DCO45</b> Cavity Optics 45°			
		<b>DCO35</b> Cavity Optics 35°			
		<b>DCO25</b> Cavity Optics 25°			

### 3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	EMERGENCY BACKUP	REMOTE DRIVER BOX <sup>1</sup>
<b>UNV</b> 120/277V <b>347</b> 347V	<b>NN</b> Not Needed <b>EMC</b> Emergency Circuit <b>EMB</b> Emergency Battery (Remote)	<b>RLDB2<sup>2</sup></b> Remote Linear Driver Box (driver included by default) <b>RX2D2<sup>2</sup></b> Optional Remote Xbox2 Driver, Up to 2 Drivers <b>RX3D2<sup>2</sup></b> Optional Remote Xbox3 Driver, Up to 3 Drivers <b>RX5D2<sup>2</sup></b> Optional Remote Xbox5 Driver, Up to 5 Drivers

### 4) FIXTURE TYPE & MOUNTING DESIGN

MOUNTING TYPE	CANOPY	POWER CORD
<b>DJ</b> Drywall/J-Box Mount <b>T1</b> 14mm Flat T-Bar Mount <b>T2</b> 14mm Bolt Slot T-Bar Mount <b>T3</b> 24mm Flat T-Bar Mount	<b>RCWH53</b> 53mm Round Canopy, White <b>RCBK53</b> 53mm Round Canopy, Black <b>RCWH127</b> 127mm Round Canopy, White <b>RCBK127</b> 127mm Round Canopy, Black <b>SQCWH53</b> 53mm Square Canopy, White <b>SQCBK53</b> 53mm Square Canopy, Black <b>SQCWH127</b> 127mm Square Canopy, White <b>SQCBK127</b> 127mm Square Canopy, Black	<b>P12WH</b> 1.2m White Cord (Ø 3mm) <b>P12BK</b> 1.2m Black Cord (Ø 3mm) <b>P24WH</b> 2.4m White Cord (Ø 3mm) <b>P24BK</b> 2.4m Black Cord (Ø 3mm)

<sup>1</sup>Remote distance is dependent on driver type, up to 30.5 m.

<sup>2</sup>Creates a clean and organized power solution for multiple fixture installations.

<sup>3</sup>The control system and driver must be compatible.

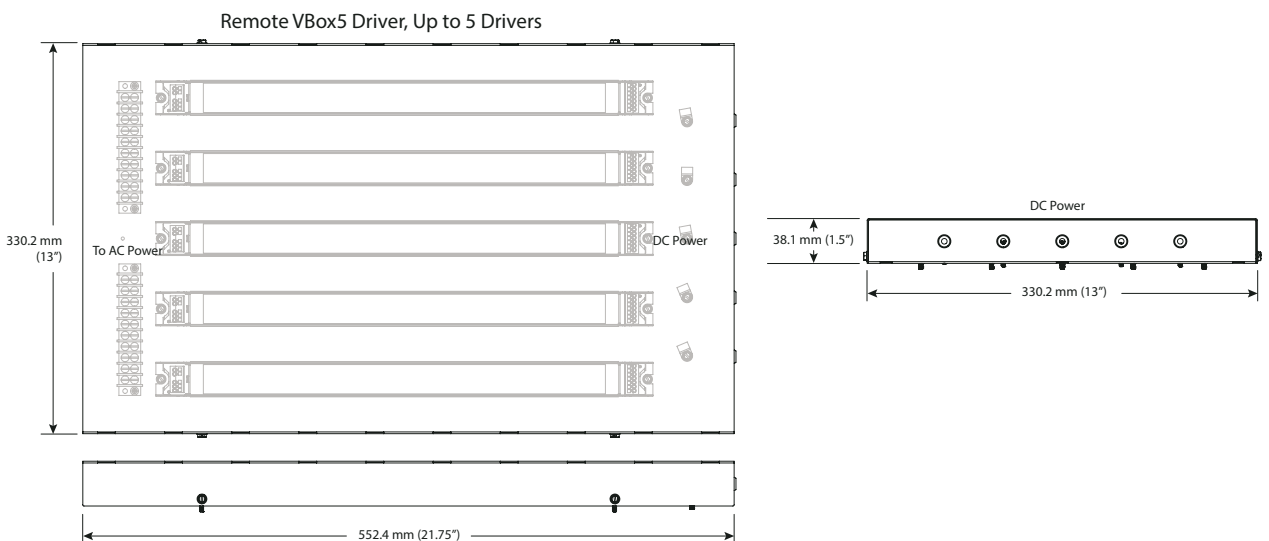
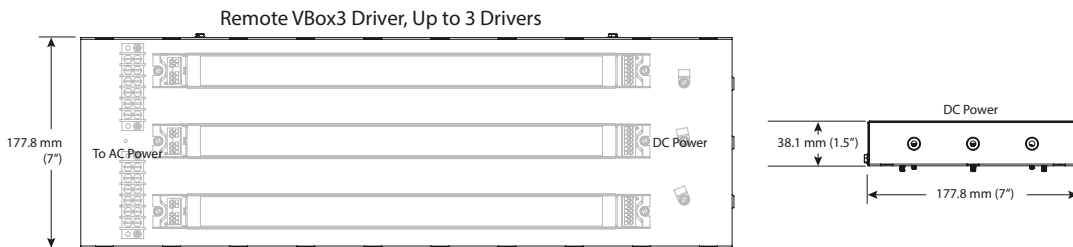
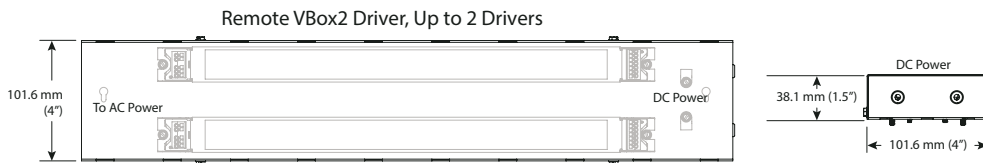
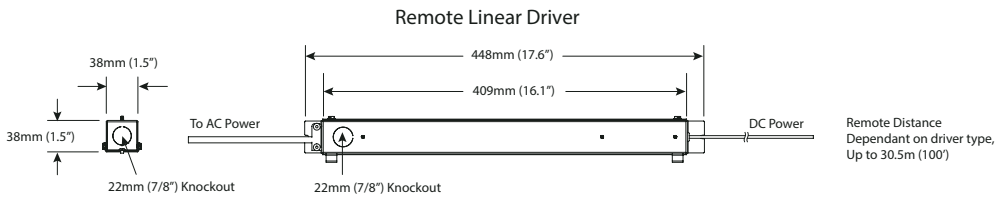
NOTES

Project Name

Fixture Type

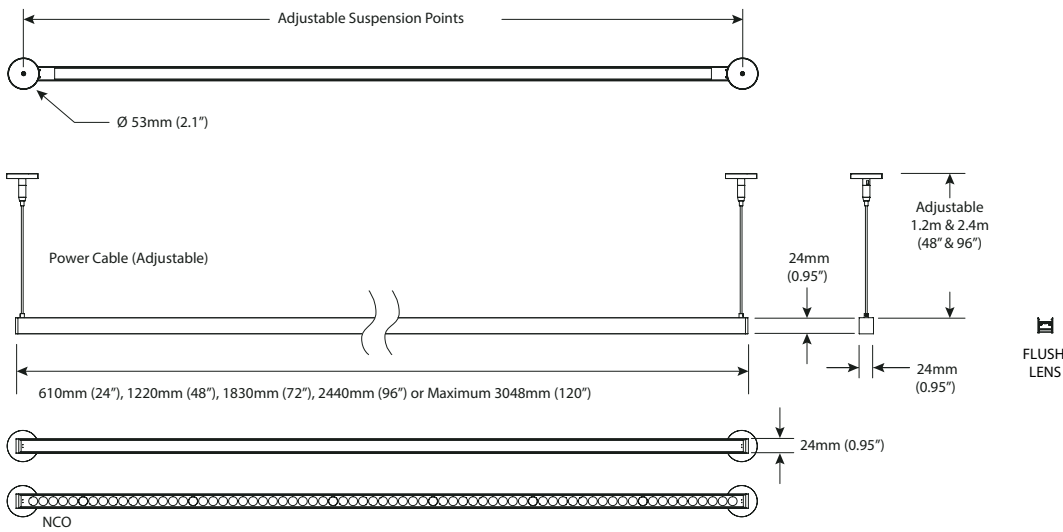

## REMOTE DRIVER BOX

### Dimensions



## FIXTURE DESIGN

### Dimensions



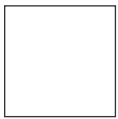
### Length

#### Length Options

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

### Finish

#### Housing Colours (Matt Finish)



White (RAL9003)



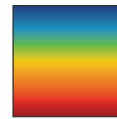
Black (RAL9005)



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, Nano Cavity Optics, and Nano Baffle

#### Lens Material

Acrylic (PMMA)

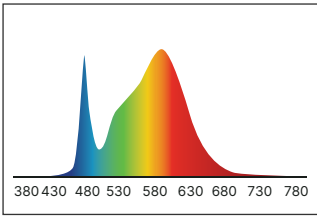
### Voltage

#### Input Voltage (AC)

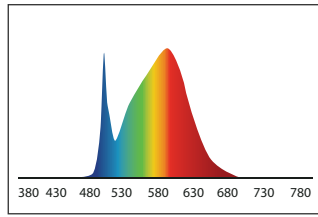
120/277 VAC and 347 VAC, 50/60Hz

## LED SELECTION GUIDE

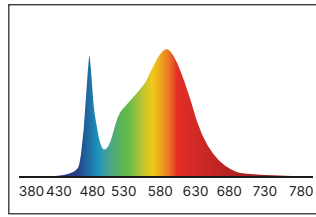
**S80:** Standard 80+ CRI



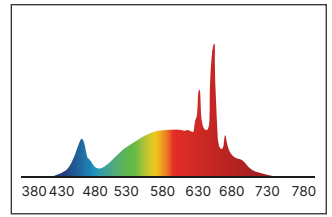
**S90:** Standard 90+ CRI



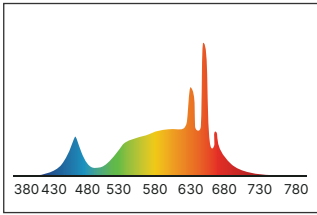
**HE80:** High-Efficiency 80+ CRI



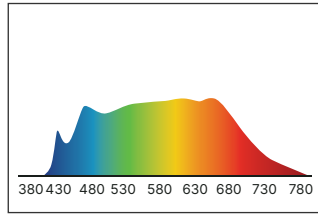
**HE90:** High-Efficiency 90+ CRI



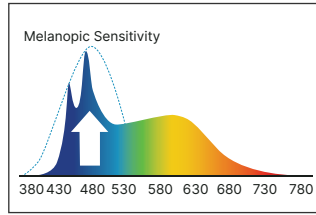
**HD95:** High-Definition 95+ CRI



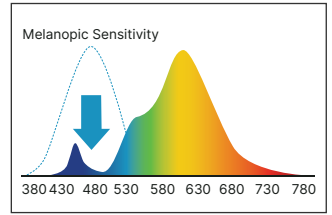
**SUN:** Full Spectrum "SunLike"



**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)

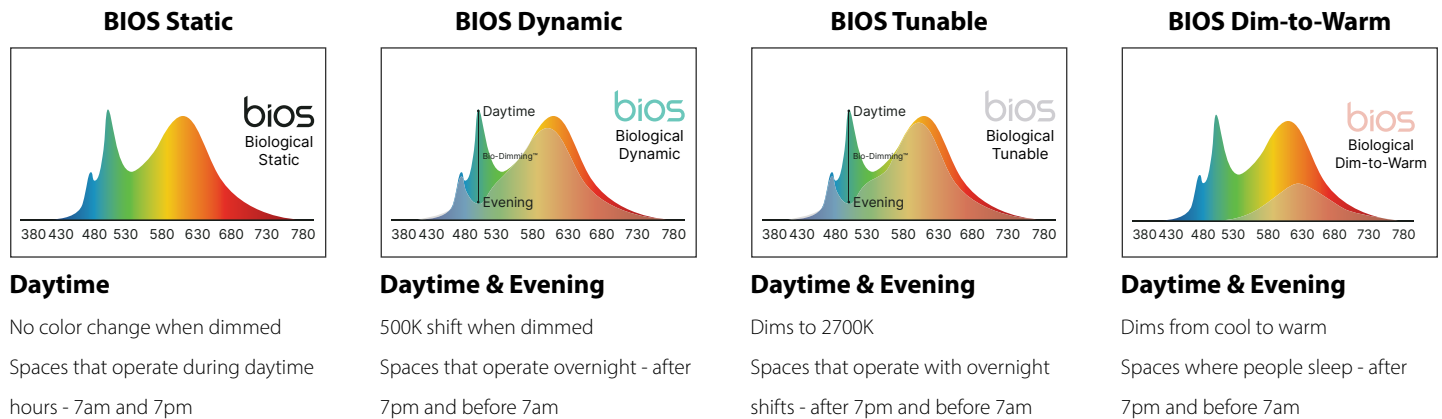
CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	-	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	-	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	-	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN	-	0.90	0.92	1.00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

### Input 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 1220mm 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

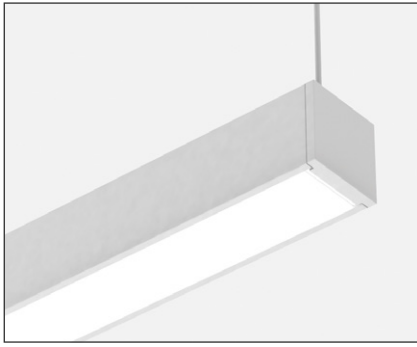
**Cooper** Compatible driver

**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.

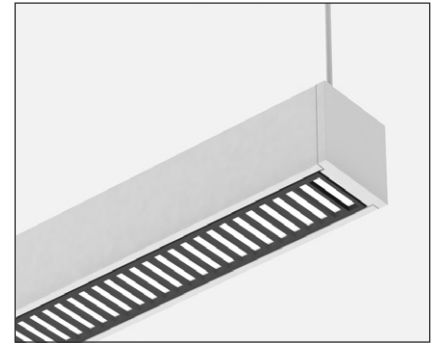
## OPTICS OPTIONS



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.

#### Drywall/J-Box Mount

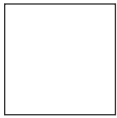
Installs onto a surface via a junction box. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

### Canopy

#### Canopy Sizes & Shapes

53mm and 127mm, Round and Square

#### Canopy Colours



White (RAL9003)



Black (RAL9005)

#### Canopy Material

Powder Coated Steel

### Power Cords

#### 1.2m Cable Kit

White and Black

#### 2.4m Cable Kit

White and Black

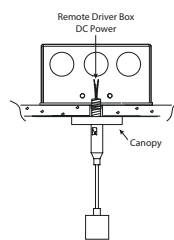
### Mounting Options

Typically suspended at a distance of between 0.6m and 1.8m.

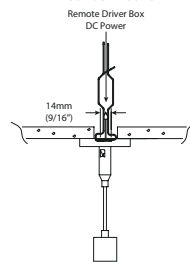
Supplied hardware includes:

- Remote Drivers (optional Xbox Drivers are sold separately)
- 1.2m or 2.4m standard adjustable cord
- Internal brackets to eliminate light leakage at joints

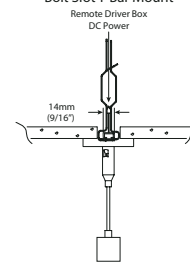
DJ - Drywall/J-Box Mount



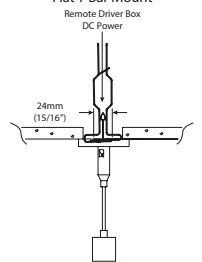
T1 - 14mm (9/16") Flat T-Bar Mount



T2 - 14mm (9/16") Bolt Slot T-Bar Mount



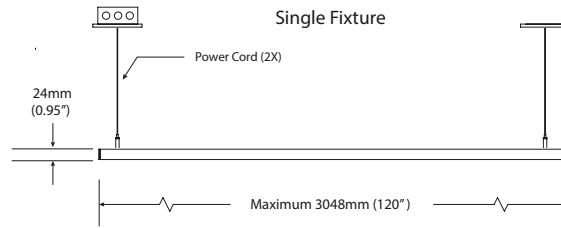
T3 - 24mm (15/16") Flat T-Bar Mount



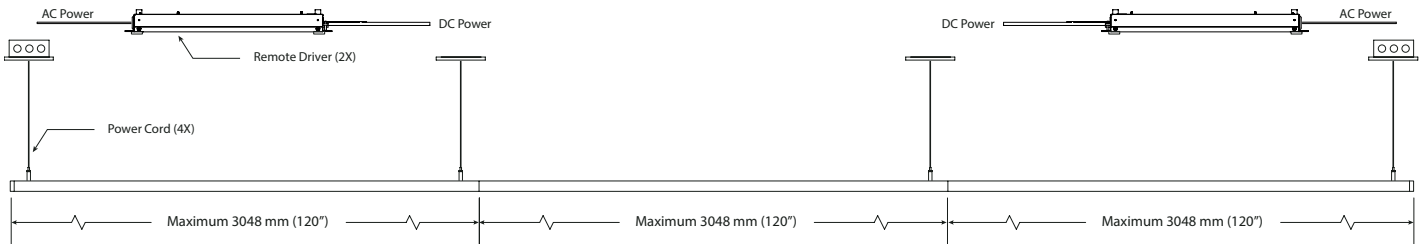


## Standard Lengths & Continuous Runs

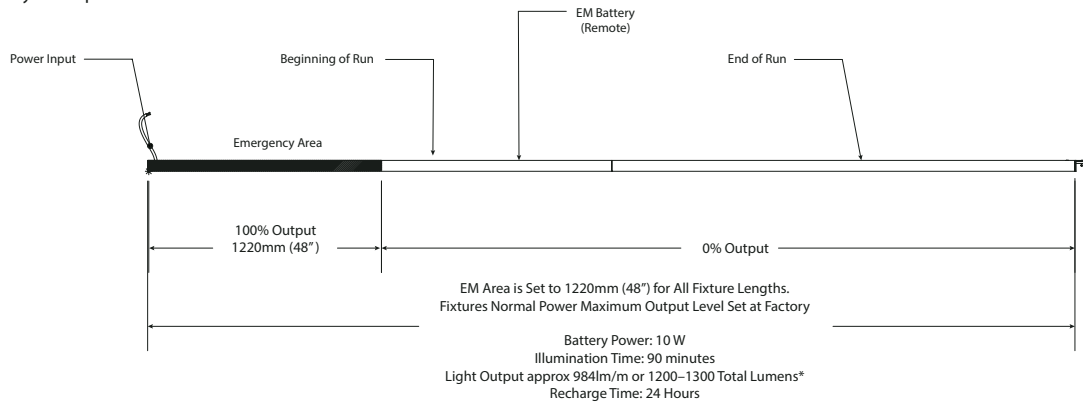
Maximum length of one fixture is 3048mm. Longer runs can be produced by joining sections. Customer approval of shop drawings is required prior to build of any non-standard length order.



### Standard Continuous Run



### Emergency Battery Backup



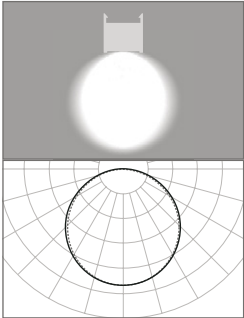
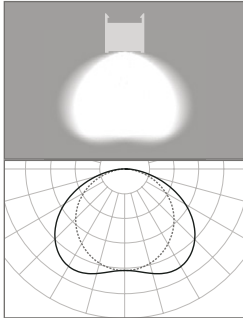
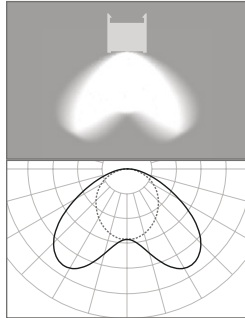
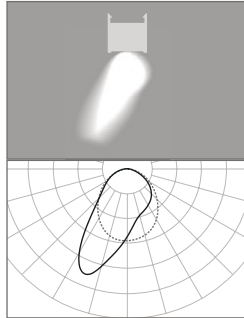
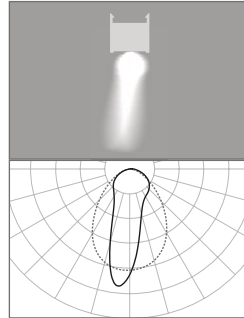
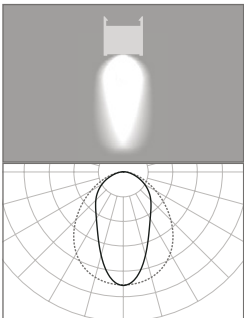
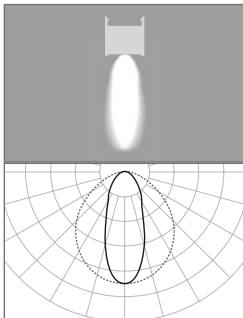
\*Light output may vary based on fixture output level ordered.

## BEAM PATTERN SELECTION GUIDE

### Beam Pattern Availability

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

### Direct Photometrics Static White Light

<p><b>DLAM</b> Lambertian</p> 	<p><b>DBW60</b> Batwing 60°</p> 	<p><b>DDA70</b> Double Asymmetric 70°</p> 	<p><b>DA5025</b> Asymmetric 50° at 60° Tilt</p> 	<p><b>DA4005</b> Asymmetric 40° at 5° Tilt</p> 
<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,510 <b>Watts</b> 27 <b>W/m</b> 23 <b>LPW</b> 111</p>	<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,440 <b>Watts</b> 24 <b>W/m</b> 19.7 <b>LPW</b> 123</p>	<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,558 <b>Watts</b> 25 <b>W/m</b> 19.7 <b>LPW</b> 123</p>	<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,457 <b>Watts</b> 23 <b>W/m</b> 19.7 <b>LPW</b> 130</p>	<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,509 <b>Watts</b> 23 <b>W/m</b> 19.7 <b>LPW</b> 111</p>
<p><b>DM55</b> Medium 55°</p> 	<p><b>DN40</b> Narrow 40°</p> 			
<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,460 <b>Watts</b> 23 <b>W/m</b> 19.7 <b>LPW</b> 123</p>	<p><b>Length</b> 1220mm <b>LED</b> HE80 <b>CRI/CCT</b> 80+/3500K <b>Lumens</b> 3,000 <b>lm/m</b> 2,440 <b>Watts</b> 26 <b>W/m</b> 19.7 <b>LPW</b> 123</p>			

## Direct Photometrics Static White Light (cont.)

<b>DCO45</b> Cavity Optic 45°		<b>DCO35</b> Cavity Optic 35°		<b>DCO25</b> Cavity Optic 25°	
<b>Length</b>	1220mm	<b>Length</b>	1220mm	<b>Length</b>	1220mm
<b>LED</b>	HE80	<b>LED</b>	HE80	<b>LED</b>	HE80
<b>CRI/CCT</b>	80+/3500K	<b>CRI/CCT</b>	80+/3500K	<b>CRI/CCT</b>	80+/3500K
<b>Lumens</b>	3,000	<b>Lumens</b>	3,000	<b>Lumens</b>	3,000
<b>lm/m</b>	2,460	<b>lm/m</b>	2,457	<b>lm/m</b>	2,460
<b>Watts</b>	37	<b>Watts</b>	37	<b>Watts</b>	37
<b>W/m</b>	29.5	<b>W/m</b>	29.5	<b>W/m</b>	29.5
<b>LPW</b>	82	<b>LPW</b>	82	<b>LPW</b>	82

## Indirect Photometrics Static White Light

<b>ILAM</b> Lambertian		<b>IBW120</b> Batwing 120°		<b>IFT150</b> Flat Top 150°		<b>IA6040</b> Asymmetric 60° at 40° Tilt°		<b>IA4560</b> Asymmetric 45° at 60° Tilt	
<b>Length</b>	1220mm	<b>Length</b>	1220mm	<b>Length</b>	1220mm	<b>Length</b>	1220mm	<b>Length</b>	1220mm
<b>LED</b>	HE80	<b>LED</b>	HE80	<b>LED</b>	HE80	<b>LED</b>	HE80	<b>LED</b>	HE80
<b>CRI/CCT</b>	80+/3500K	<b>CRI/CCT</b>	80+/3500K	<b>CRI/CCT</b>	80+/3500K	<b>CRI/CCT</b>	80+/3500K	<b>CRI/CCT</b>	80+/3500K
<b>Lumens</b>	4,000	<b>Lumens</b>	4,000	<b>Lumens</b>	4,000	<b>Lumens</b>	4,000	<b>Lumens</b>	4,000
<b>lm/m</b>	3,280	<b>lm/m</b>	3,286	<b>lm/m</b>	3,293	<b>lm/m</b>	3,280	<b>lm/m</b>	3,280
<b>Watts</b>	28	<b>Watts</b>	25	<b>Watts</b>	26	<b>Watts</b>	24	<b>Watts</b>	24
<b>W/m</b>	23	<b>W/m</b>	20.7	<b>W/m</b>	21.3	<b>W/m</b>	20	<b>W/m</b>	20
<b>LPW</b>	150	<b>LPW</b>	159	<b>LPW</b>	155	<b>LPW</b>	164	<b>LPW</b>	164

## 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.