LUMAERA MidiSQ Pendant

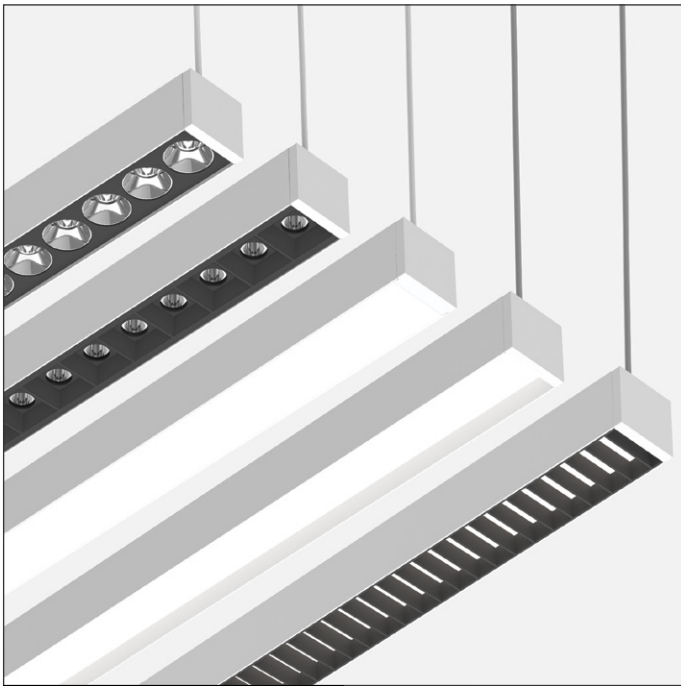**VEXICA**

36mm Well-Proportioned Linear LED Pendant Mount

Remote Driver

Features & Benefits

Exceptional Performance
Up to 3,280 lm/m, 150 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)
MDSQ36-P				

MDSQ36-P — 36mm Well-Proportioned Linear LED Pendant Mount

LENGTH:
- **610mm** — 610mm
- **1220mm** — 1220mm
- **1830mm** — 1830mm
- **2440mm** — 2440mm
- **3048mm** — 3048mm

FINISH:
- **MWH** — Matte White (RAL9003)
- **MBK** — Matte Black (RAL9005)
- **MGR** — Matte Gray (RAL7001)
- **CAE** — Clear Anodized Effect
- **RAL_** — Specify RAL#

END CAP:
- **E1** — Flat End Cap

OPTIC (Direct Only):
- **FL** — Flush Lens
- **RL** — Regressed Lens
- **CRL** — Continuous Regressed Lens[1]
- **BWH** — Baffle, White
- **BBK** — Baffle, Black
- **SCOWH** — Square Cavity Optics, White
- **SCOBK** — Square Cavity Optics, Black
- **RCOWH** — Round Cavity Optics, White
- **RCOBK** — Round Cavity Optics, Black

2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT	INDIRECT BEAM PATTERN	INDIRECT OUTPUT

CRI:
- **S80** — Std. 80 CRI
- **S90** — Std. 90 CRI
- **HE80** — High-Eff. 80 CRI
- **HE90** — High-Eff. 90 CRI
- **HD95** — High-Def. 95 CRI
- **SUN** — Full SunLike
- **SBIOS** — Static BIOS
- **DBIOS** — Dynamic BIOS
- **TBIOS** — Tunable White BIOS

CCT:
- **2200K** — 2200K
- **2700K** — 2700K
- **3000K** — 3000K
- **3500K** — 3500K
- **4000K** — 4000K
- **5000K** — 5000K
- **3022D** — 3000K to 2200K Dim-to-Warm
- **3527D** — 3500K to 2700K Dim-to-Warm

DIRECT BEAM PATTERN:
- **DLAM** — Lambertian
- **DBW60** — Batwing 60°
- **DDA70** — Double Asymmetric 70°
- **DA3010** — Asymmetric 30° at 10° Tilt
- **DA3015** — Asymmetric 30° at 15° Tilt
- **DM70** — Medium 70°
- **DN40** — Narrow 40°
- **DCO45** — Cavity Optics 45°
- **DCO35** — Cavity Optics 35°
- **DCO25** — Cavity Optics 25°

DIRECT OUTPUT:
- **1148** — 1148 lm/m
- **1640** — 1640 lm/m
- **2460** — 2,460 lm/m
- **3280** — 3,280 lm/m

INDIRECT BEAM PATTERN:
- **NN** — Not Needed
- **ILAM** — Lambertian
- **IBW120** — Batwing 120°
- **IFT150** — FlatTop 150°
- **IA6040** — Asymmetric 60° at 40° Tilt
- **IA4560** — Asymmetric 45° at 60° Tilt

INDIRECT OUTPUT:
- **NN** — Not Needed
- **1148** — 1148 lm/m
- **1640** — 1640 lm/m
- **2460** — 2,460 lm/m
- **3280** — 3,280 lm/m

3) FIXTURE POWER OPTIONS

LINE VOLTAGE (DC)	EMERGENCY BACKUP	REMOTE DRIVER BOX[2]

LINE VOLTAGE (DC):
- **UNV** — 120/277V
- **347** — 347V

EMERGENCY BACKUP:
- **NN** — Not Needed
- **EMC** — Emergency Circuit
- **EMB** — Emergency Battery (Remote)

REMOTE DRIVER BOX[2]:
- **NN** — Not Needed
- **RLDB2**[3] — Remote Linear Driver Box
- **RX2D2**[3] — Optional Remote XBox2 Driver, Up to 2 Drivers
- **RX3D2**[3] — Optional Remote XBox3 Driver, Up to 3 Drivers
- **RX5D2**[3] — Optional Remote XBox5 Driver, Up to 5 Drivers

4) FIXTURE TYPE & MOUNTING DESIGN

MOUNTING TYPE	CANOPY	POWER CORD

MOUNTING TYPE:
- **DJ** — Drywall/J-Box Mount
- **T1** — 14mm Flat T-Bar Mount
- **T2** — 14mm Bolt Slot T-Bar Mount
- **T3** — 24mm Flat T-Bar Mount

CANOPY:
- **RCWH53** — 53mm Round Canopy, White
- **RCBK53** — 53mm Round Canopy, Black
- **RCWH127** — 127mm Round Canopy, White
- **RCBK127** — 127mm Round Canopy, Black
- **SQCWH53** — 53mmSquare Canopy, White
- **SQCBK53** — 53mmSquare Canopy, Black
- **SQCWH127** — 127mm Square Canopy, White
- **SQCBK127** — 127mm Square Canopy, Black

POWER CORD:
- **P12WH** — 1.2m White Cord (Ø 3mm)
- **P12BK** — 1.2m Black Cord (Ø 3mm)
- **P24WH** — 2.4m White Cord (Ø 3mm)
- **P24BK** — 2.4m Black Cord (Ø 3mm)

[1]Continuous Regressed Lens ships on a roll for seamless lens installation.
[2]Remote distance is dependent on driver type, up to 30.5m.
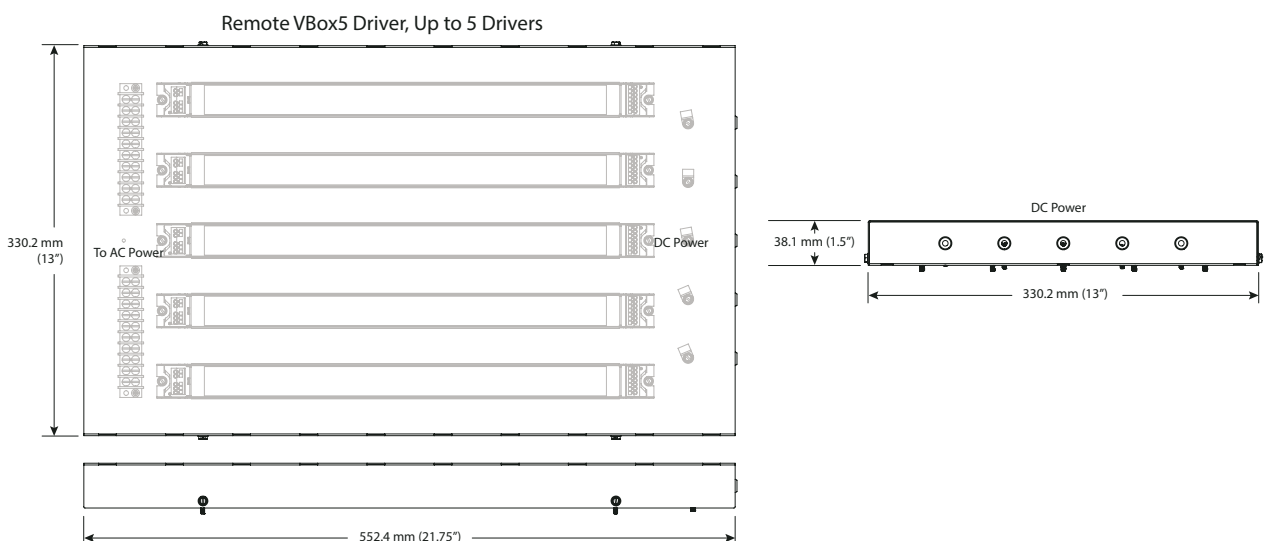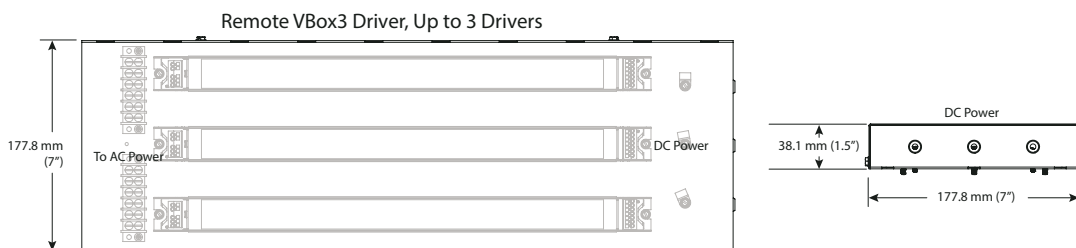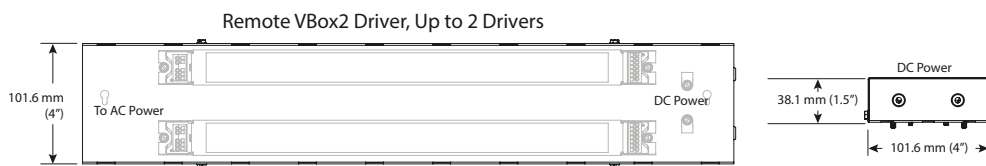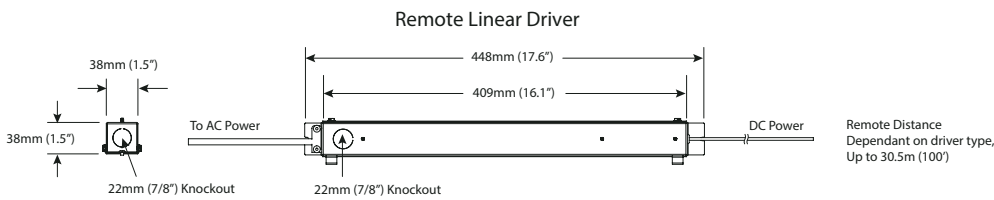[3]Creates a clean and organised power solution for multiple fixture installations.

Project Name	
Fixture Type	

NOTES

REMOTE DRIVER BOX

Dimensions

Remote Linear Driver

38mm (1.5")

38mm (1.5")

448mm (17.6")

409mm (16.1")

To AC Power

DC Power

22mm (7/8") Knockout

22mm (7/8") Knockout

Remote Distance
Dependant on driver type,
Up to 30.5m (100')

Remote VBox2 Driver, Up to 2 Drivers

101.6 mm
(4")

To AC Power

DC Power

DC Power

38.1 mm (1.5")

101.6 mm (4")

Remote VBox3 Driver, Up to 3 Drivers

177.8 mm
(7")

To AC Power

DC Power

DC Power

38.1 mm (1.5")

177.8 mm (7")

Remote VBox5 Driver, Up to 5 Drivers

330.2 mm
(13")

To AC Power

DC Power

DC Power

38.1 mm (1.5")

330.2 mm (13")

552.4 mm (21.75")

LUMAERA MidiSQ Pendant

FIXTURE DESIGN

Dimensions
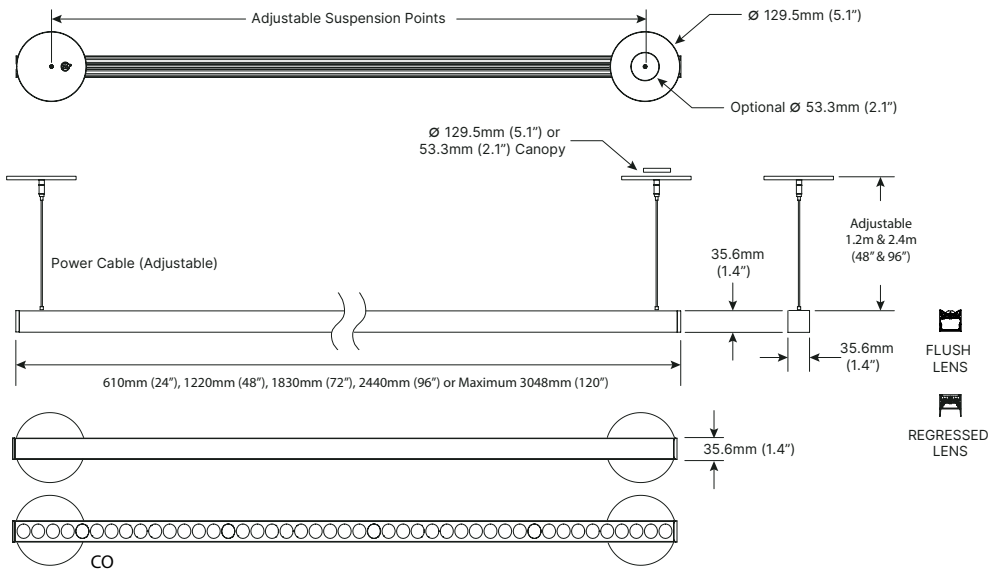
Length

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

Finish

Housing Colours (Matt Finish)
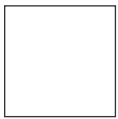
White (RAL9003)	Black (RAL9005)	Gray (RAL7001)	Clear Anodised Effect	Custom RAL
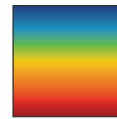
Housing Material	6063-T5 extruded, recycled aluminum
Mounting Brackets	Sheet Metal

End Cap

End Cap Options	Flat
End Cap Material	Machined or Cast Aluminium

Optic

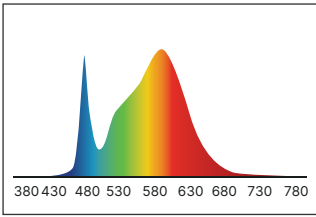|	
Lens Options	Flush, Regressed, Continuous Regressed, Cavity Optics, and Baffled
Lens Material	Acrylic (PMMA)

Voltage

Input Voltage (AC)	120/277 VAC and 347 VAC, 50/60Hz

LED SELECTION GUIDE

S80: Standard 80+ CRI
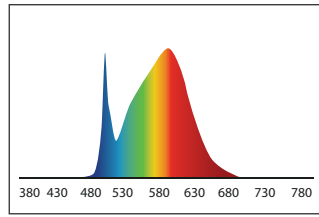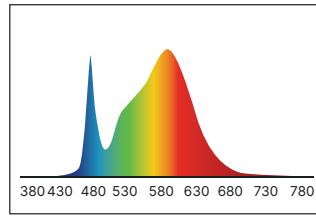
380 430 480 530 580 630 680 730 780

S90: Standard 90+ CRI

380 430 480 530 580 630 680 730 780

HE80: High-Efficiency 80+ CRI

380 430 480 530 580 630 680 730 780

HE90: High-Efficiency 90+ CRI

380 430 480 530 580 630 680 730 780

HD95: High-Definition 95+ CRI

380 430 480 530 580 630 680 730 780

SUN: Full Spectrum "SunLike"

380 430 480 530 580 630 680 730 780

HCD: Human Centric Day

Melanopic Sensitivity

380 430 480 530 580 630 680 730 780

HCN: Human Centric Night

Melanopic Sensitivity

380 430 480 530 580 630 680 730 780
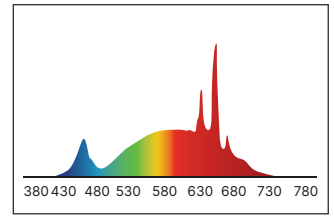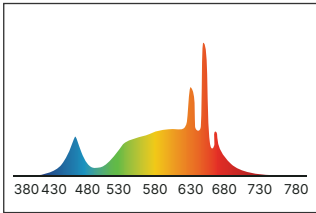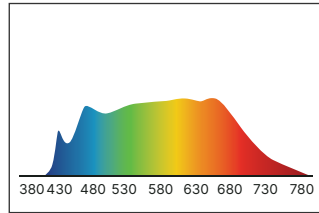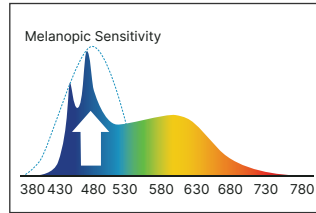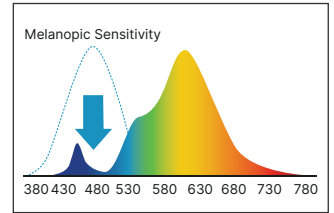
Static White Light (LED Light Engine Only)

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.

BIOS Static

Daytime

No color change when dimmed

Spaces that operate during daytime hours - 7am and 7pm

BIOS Dynamic

Daytime & Evening

500K shift when dimmed

Spaces that operate overnight - after 7pm and before 7am

BIOS Tunable

Daytime & Evening

Dims to 2700K

Spaces that operate with overnight shifts - after 7pm and before 7am

BIOS Dim-to-Warm

Daytime & Evening

Dims from cool to warm

Spaces where people sleep - after 7pm and before 7am

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 & pectrum 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

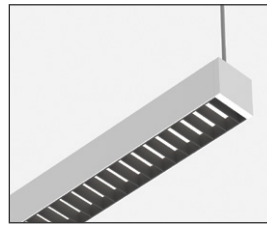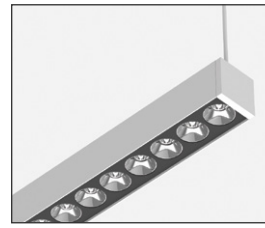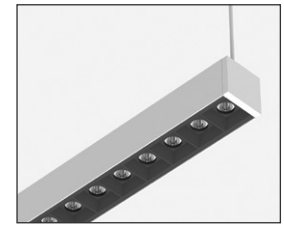|	
Remote Driver Boxes (Optional)	To create a clean and organized power solution for multiple fixture installations we have our our VBox solution. Reach out to your Vexica Sales Representative for more information.

OPTICS OPTIONS
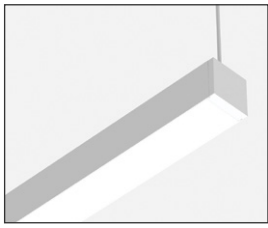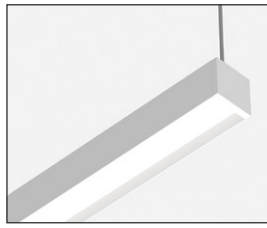
Flush Lens **Regressed Lens** **Baffles (Black or White)** **Round Cavity Optics** **Square Cavity Optics**

(Black or White) **(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.
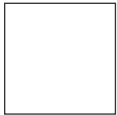
Drywall/J-Box Mount Installs onto a surface via a junction box. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

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

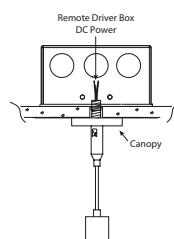**2.4m Cable Kit** White and Black

Mounting Options

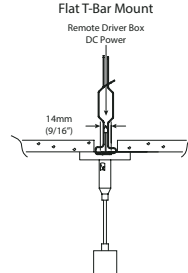Typically suspended at a distance of between 0.6mm and 1.8m.

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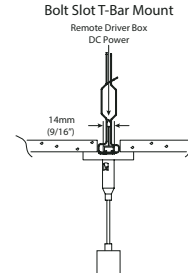- Internal brackets to eliminate light leakage at joints

DJ - Drywall/J-Box Mount

Remote Driver Box
DC Power

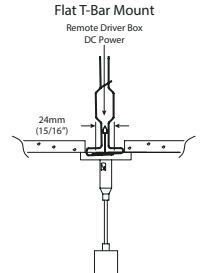Canopy

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

Remote Driver Box
DC Power

14mm
(9/16")

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

Remote Driver Box
DC Power

14mm
(9/16")

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

Remote Driver Box
DC Power
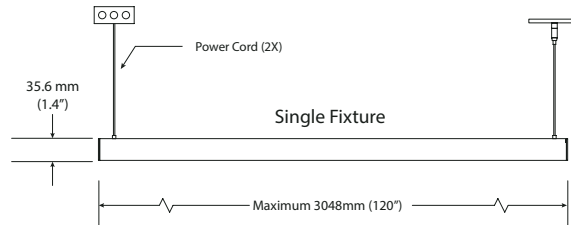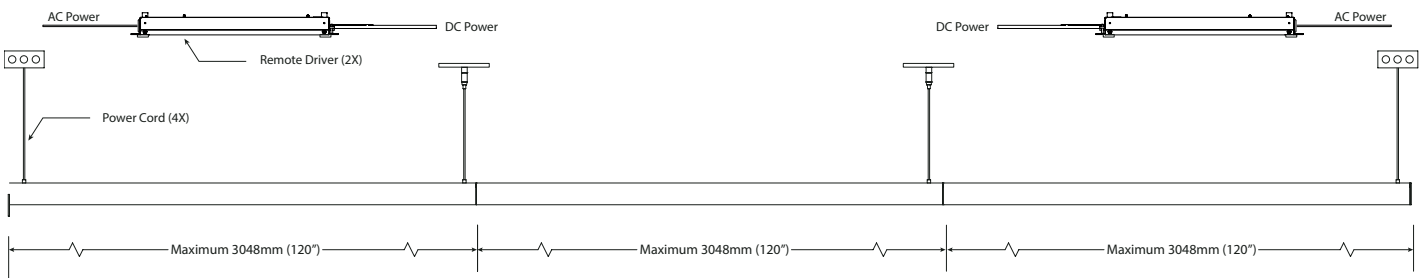
24mm
(15/16")

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.
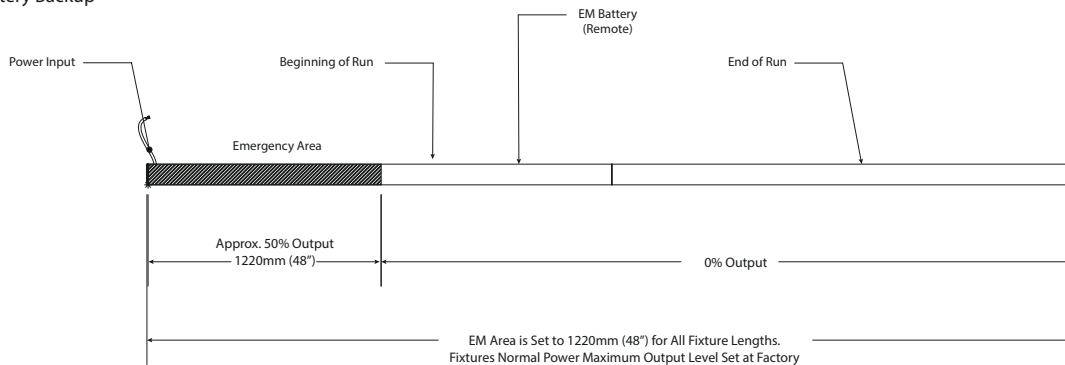
Lens can be supplied in a maximum 76m roll length with continuous FlatLENS optics to be installed on-site for a seamless light surface.

Power Cord (2X)

35.6 mm
(1.4")

Single Fixture

Maximum 3048mm (120")

Standard Continuous Run

AC Power

DC Power

Remote Driver (2X)

Power Cord (4X)

DC Power

AC Power

Maximum 3048mm (120")

Maximum 3048mm (120")

Maximum 3048mm (120")

Emergency Battery Backup

EM Battery
(Remote)

Power Input

Beginning of Run

End of Run

Emergency Area

Approx. 50% Output
1220mm (48")

0% Output

EM Area is Set to 1220mm (48") for All Fixture Lengths.
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.
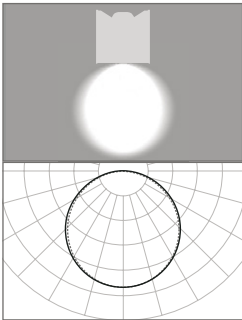
BEAM PATTERN SELECTION GUIDE

Beam Pattern Availability

OPTIC	BEAM PATTERN									
	DLAM	DBW60	DDA70	DA3015	DA3010	DM70	DN40	DCO45	DCO35	DCO25
Flush/Regressed Lens	*	*	*	*	*	*	*			
Nano Baffle	*	*	*	*	*	*	*			
Nano Cavity Optics (NCO)								*	*	*

Direct Photometrics Static White Light

	DLAM	**DBW60**	**DDA70**	**DA3015**	**DA3010**
	Lambertian	Batwing 60°	Double Asymmetric 70°	Asymmetric 30° at 15° Tilt	Asymmetric 30° at 10° Tilt

	DLAM	DBW60	DDA70	DA3015	DA3010
Length	1220mm	1220mm	1220mm	1220mm	1220mm
LED	HE80	HE80	HE80	HE80	HE80
CRI/CCT	80+/3500K	80+/3500K	80+/3500K	80+/3500K	80+/3500K
Lumens	3,000	3,000	3,000	3,000	3,000
lm/m	2,450	2,470	2,560	2,515	2,495
Watts	36	21	25	23	23
W/m	29.5	17.5	20.8	19.2	19.2
LPW	83	141	123	131	130

	DM70	**DN40**
	Medium 70°	Narrow 40°

	DM70	DN40
Length	1220mm	1220mm
LED	HE80	HE80
CRI/CCT	80+/3500K	80+/3500K
Lumens	3,000	3,000
lm/m	2,490	2,520
Watts	20	20
W/m	16.7	16.7
LPW	149	151

Direct Photometrics Static White Light (cont.)

	DCO45	**DCO35**	**DCO25**
	Cavity Optic 45°	Cavity Optic 35°	Cavity Optic 25°

DCO45		**DCO35**		**DCO25**	
Length	1220mm	**Length**	1220mm	**Length**	1220mm
LED	HE80	**LED**	HE80	**LED**	HE80
CRI/CCT	80+/3500K	**CRI/CCT**	80+/3500K	**CRI/CCT**	80+/3500K
Lumens	3,000	**Lumens**	3,000	**Lumens**	3,000
lm/m	2,525	**lm/m**	2,525	**lm/m**	2,525
Watts	37	**Watts**	37	**Watts**	37
W/m	30.8	**W/m**	30.8	**W/m**	30.8
LPW	82	**LPW**	82	**LPW**	82

Indirect Photometrics Static White Light

	ILAM	**IBW120**	**IFT150**	**IA6040**	**IA4560**
	Lambertian	Batwing 120°	Flat Top 150°	Asymmetric 60° at 40° Tilt°	Asymmetric 45° at 60° Tilt

ILAM		**IBW120**		**IFT150**		**IA6040**		**IA4560**	
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	4,000	**Lumens**	4,000	**Lumens**	4,000	**Lumens**	4,000	**Lumens**	4,000
lm/m	3,495	**lm/m**	3,430	**lm/m**	3,495	**lm/m**	3,330	**lm/m**	3,330
Watts	28	**Watts**	26	**Watts**	28	**Watts**	28	**Watts**	28
W/m	23.3	**W/m**	21.7	**W/m**	23.3	**W/m**	23.3	**W/m**	23.3
LPW	150	**LPW**	158	**LPW**	150	**LPW**	143	**LPW**	143

STANDARDS & CERTIFICATIONS

Compliance

Standard Marks

UKCA CE CSA UL LISTED IC RATED RoHS 2002/95/EC

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 componets 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.

VEXICA

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