LUMAERA MiniBM Wall

24mm Compact Linear LED Wall Mount

VEXICA

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

LUMAERA MiniBM Wall

FIXTURE ORDERING

Project Name	
Fixture Type	

1) FIXTURE TYPE & MOUNTING DESIGN

PRODUCT	LENGTH	FINISH	END CAP	OPTIC (Direct Only)
MNBM24-W				

PRODUCT	LENGTH		FINISH		END CAP		OPTIC (Direct Only)	
24mm Compact Linear LED Wall Mount	**610mm** **1220mm** **1830mm** **2440mm** **3048mm**	610mm 1220mm 1830mm 2440mm 3048mm	**MWH** **MBK** **MGR** **CAE** **RAL_**	Matte White (RAL9003) Matte Black (RAL9005) Matte Gray (RAL7001) Clear Anodized Effect Specify RAL#	**E1**	Flat End Cap	**ORL** **OCR** **OBWH** **OBBK** **OSCOWH** **OSCOBK** **ORCOWH** **ORCOBK**	Regressed Lens Continuous Regressed Lens[1] Baffle, White Baffle, Black Square Cavity Optics, White Square Cavity Optics, Black Round Cavity Optics, White Round Cavity Optics, Black

2) LED LIGHT ENGINE

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

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)		EMERGENCY BACKUP		REMOTE DRIVER BOX[2]	
UNV	120/277V	**NN**	Not Needed	**NN**	Not Needed
347	347V	**EMC**	Emergency Circuit	**RLDB2**[3]	Remote Linear Driver Box (driver included by default)
		EMB	Emergency Battery (Remote)	**RX2D2**[3]	Optional Remote XBox2 Driver, Up to 2 Drivers
		X_	Specify Backup	**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		MOUNTING KIT	
WM	Wall Mount	**WM71WH** **WM71BK**	71mm White Stainless Steel Wall Mounting Plate 71mm Black Stainless Steel Wall Mounting Plate

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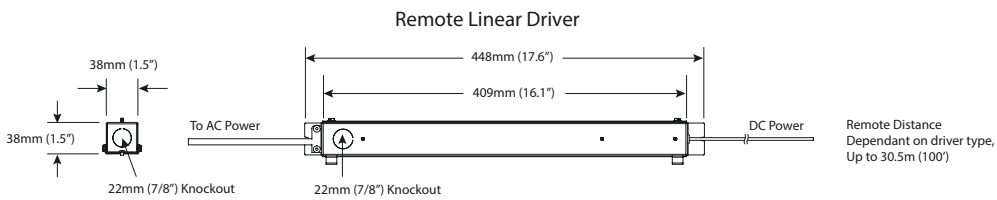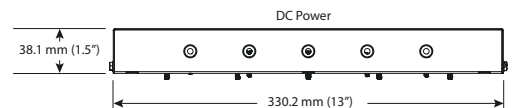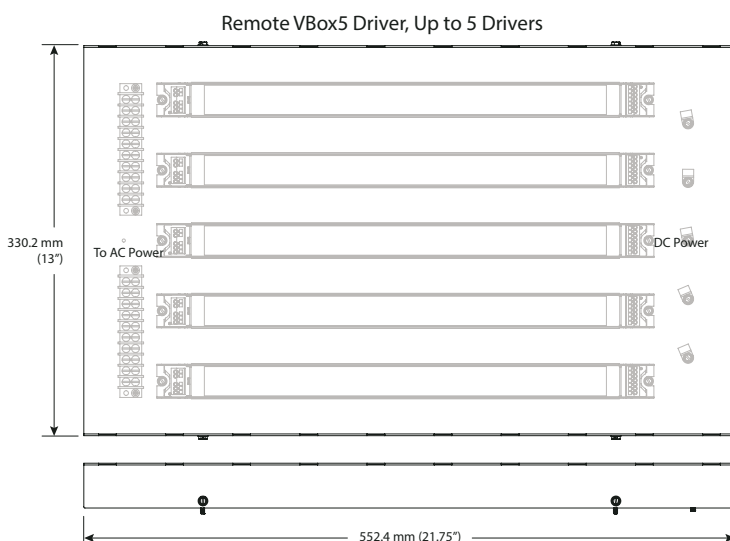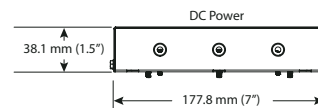[3]Creates a clean and organized power solution for multiple fixture installations.

Project Name	
Fixture Type	

NOTES

REMOTE DRIVER BOX

Dimensions

Remote Linear Driver

38mm (1.5")

38mm (1.5")

22mm (7/8") Knockout

448mm (17.6")

409mm (16.1")

To AC Power

22mm (7/8") Knockout

DC Power

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")
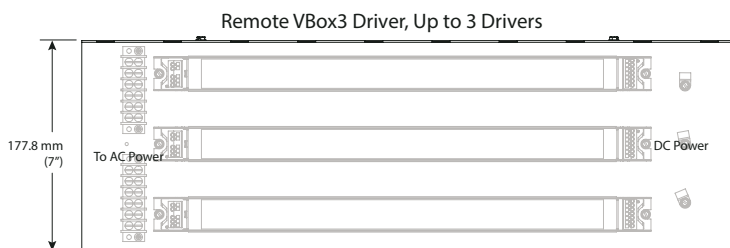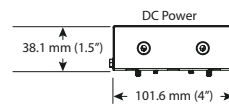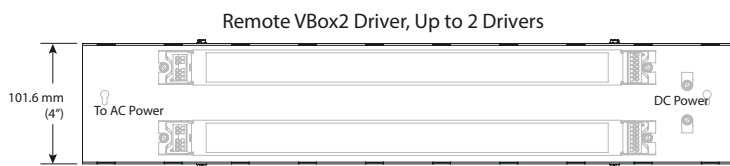
FIXTURE DESIGN

Dimensions

Power Feed 305mm (12") Whip

114mm (4.5")
J-Box Cover Plate (2X)

J-Box Mount Cover (H x W)
70 x 114mm (2.77"x4.5")

Single Gang J-Box must be installed in horizontal position

111mm (4.38") (2X)

Wall Mounting Kit

44mm (1.73")

70mm (2.8")

23mm (0.92")

24mm (0.95")

REGRESSED LENS

610mm (24" m), 1220mm (48"), 1830mm (72"), 2440mm (96"), or Maximum 3048mm (120")
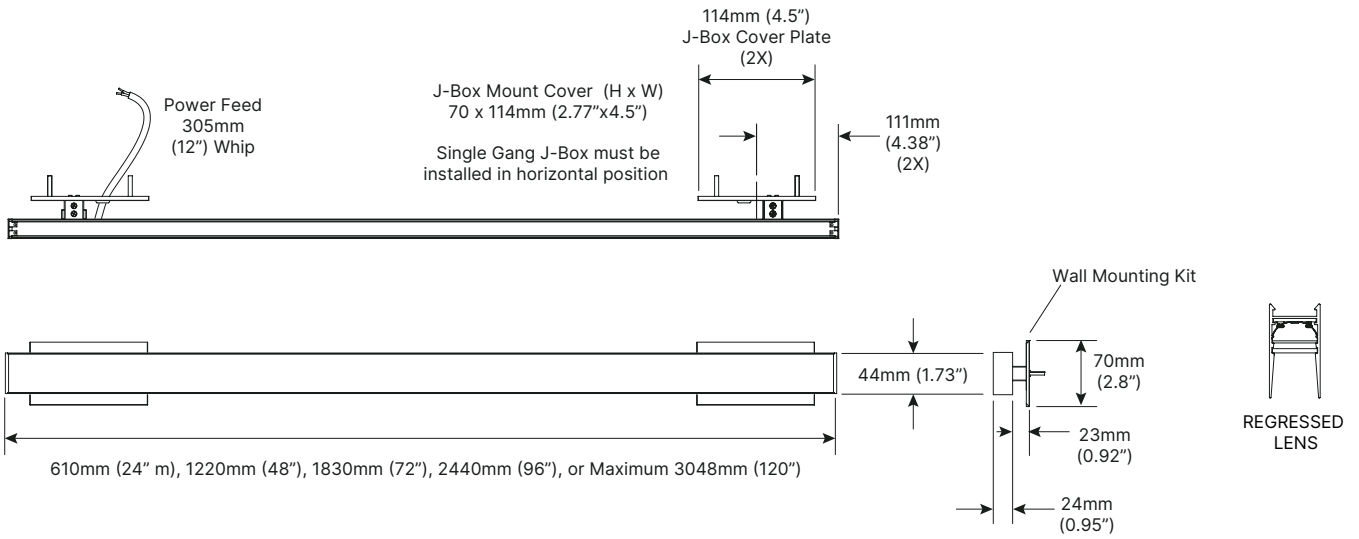
Length

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

Finish

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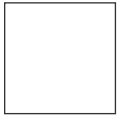
White (RAL9003) Black (RAL9005) Gray (RAL7001) Clear Anodised Effect Custom RAL
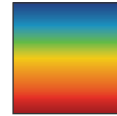
Housing Material	6063-T5 extruded, recycled aluminum
Mounting Brackets	Sheet Metal

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

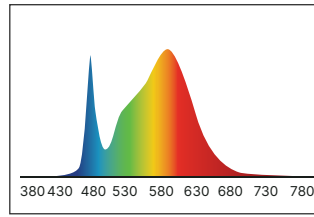| **Input Voltage (AC)**	120/277 VAC and 347 VAC, 50/60Hz

LED SELECTION GUIDE

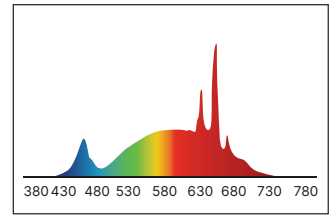**S80:** Standard 80+ CRI
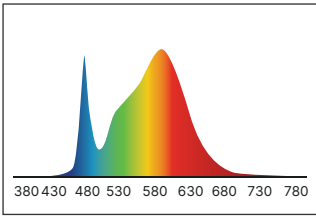
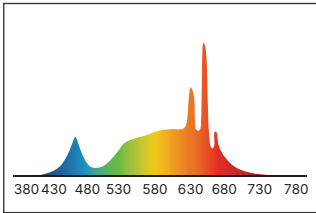

S90: Standard 90+ CRI
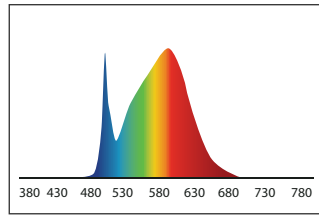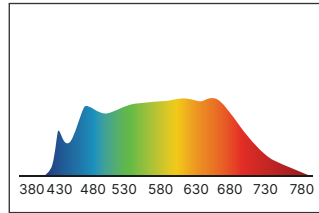

HE80: High-Efficiency 80+ CRI

HE90: High-Efficiency 90+ CRI
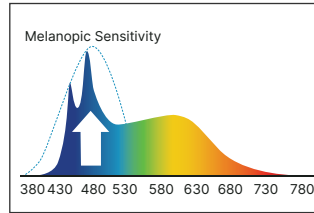

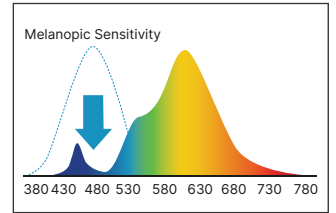**HD95:** High-Definition 95+ CRI

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.

BIOS Static	**BIOS Dynamic**	**BIOS Tunable**	**BIOS Dim-to-Warm**
Daytime	**Daytime & Evening**	**Daytime & Evening**	**Daytime & Evening**
No color change when dimmed	500K shift when dimmed	Dims to 2700K	Dims from cool to warm
Spaces that operate during daytime hours - 7am and 7pm	Spaces that operate overnight - after 7pm and before 7am	Spaces that operate with overnight shifts - after 7pm and before 7am	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

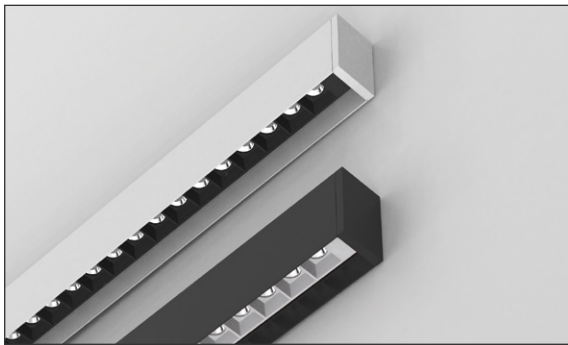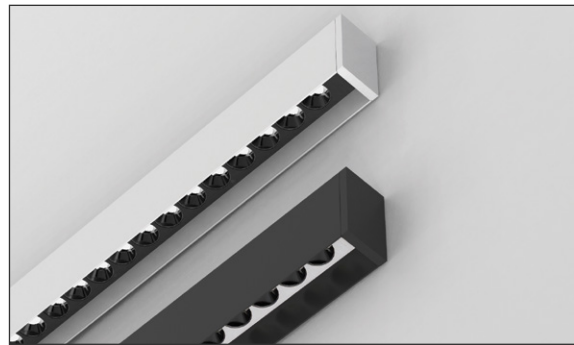|	
Remote Driver Boxes (Optional)	To create a clean and organized power solution for multiple fixture installations we have our our VBox solution. Reach out to your Vexica Sales Representative for more information.

OPTICS OPTIONS
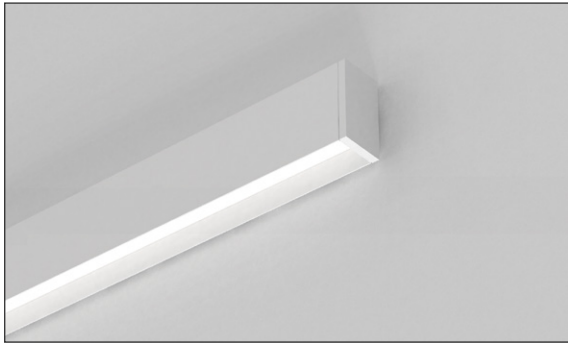
Regressed Lens
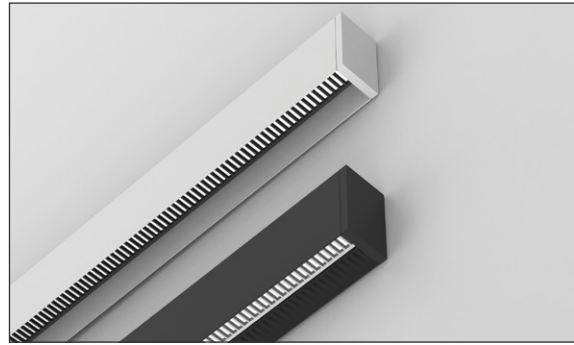
Baffles (Black or White)

Square Cavity Optics (Black or White)

Round Cavity Optics (Black or White)

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

Wall Mount

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

Mounting Kit

Wall Mounting Kit

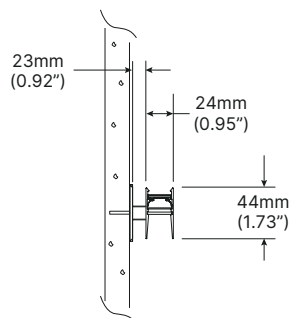71mm Stainless Steel Wall Mounting Plate, White & Black

Power Feed

Power Whip

305mm

Mounting Option

WM - Wall Mount

23mm (0.92")

24mm (0.95")

44mm (1.73")

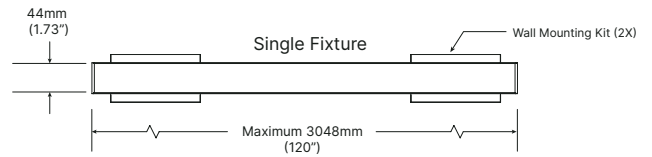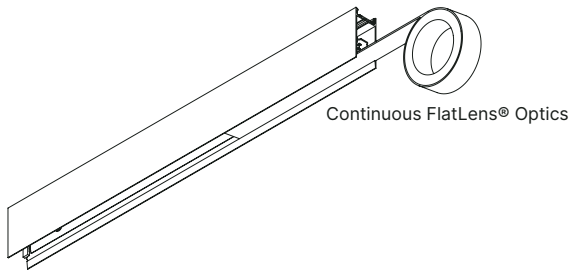## Standard Lengths & Continuous Runs

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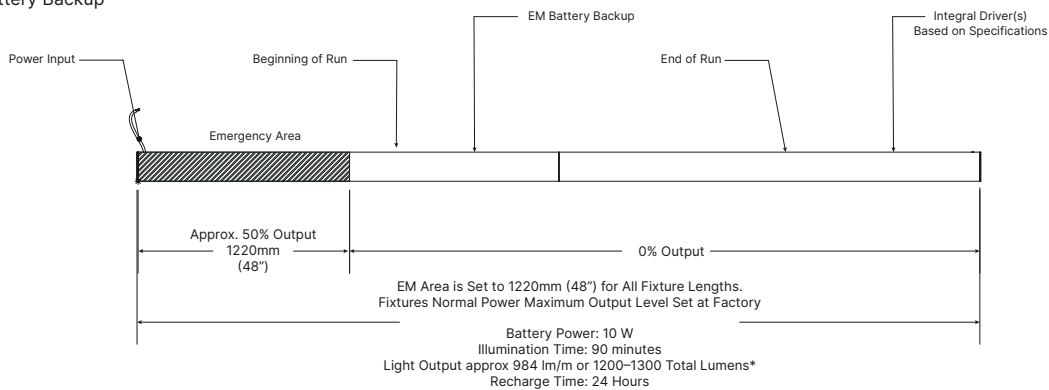
Lens can be supplied in a maximum 76m roll length with Continuous FlatLENS Optics to be installed on-site for a seamless light surface.

Continuous FlatLens® Optics

44mm
(1.73")

Single Fixture

Wall Mounting Kit (2X)

Maximum 3048mm
(120")

Standard Continuous Run

AC Power

Remote Driver (2X)

DC Power

DC Power

AC Power

Maximum 3048mm
(120")

Maximum 3048mm
(120")

Maximum 3048mm
(120")

Emergency Battery Backup

EM Battery Backup

Integral Driver(s)
Based on Specifications

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	DA5025	DA4005	DM55	DN40	DCO45	DCO35	DCO25
Flush Lens	*	*	*	*	*	*	*			
Nano Baffle	*	*	*	*	*	*	*			
Nano Cavity Optics (NCO)								*	*	*

Direct Photometrics Static White Light

DLAM
Lambertian
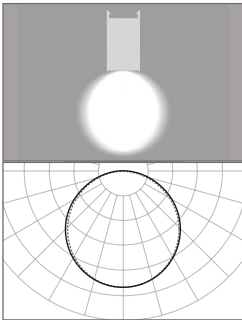
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,510
Watts	27
W/m	22.6
LPW	111

DBW60
Batwing 60°
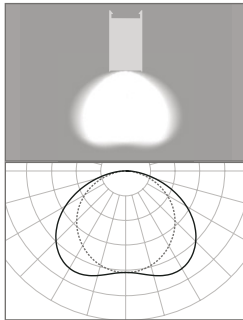
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,440
Watts	24
W/m	19.8
LPW	123

DDA70
Double Asymmetric 70°
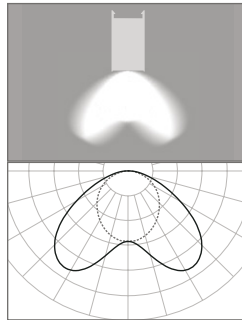
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,495
Watts	25
W/m	20.3
LPW	123

DA5025
Asymmetric 50° at 60° Tilt
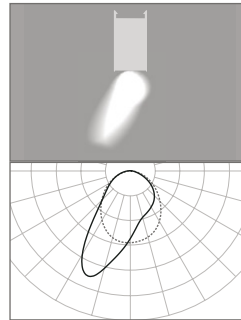
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,460
Watts	23
W/m	18.9
LPW	130

DA4005
Asymmetric 40° at 5° Tilt
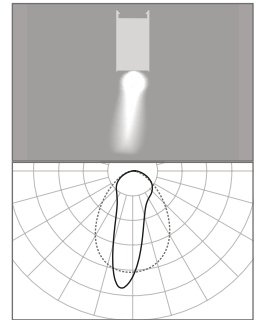
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,420
Watts	23
W/m	18.9
LPW	128

DM55
Medium 55°
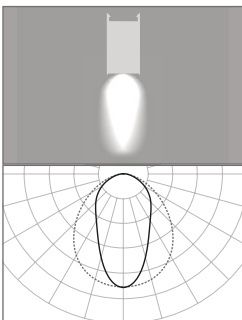
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,435
Watts	23
W/m	18.9
LPW	129

DN40
Narrow 40°
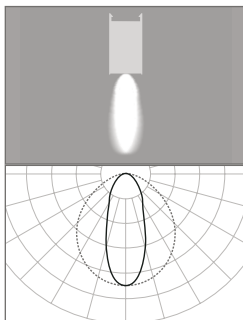
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,450
Watts	26
W/m	21.1
LPW	116

Direct Photometrics Static White Light (cont.)

DCO45
Cavity Optic 45°
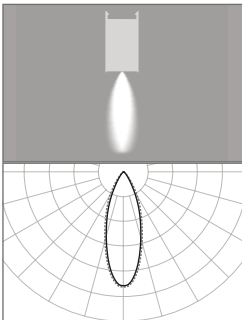
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,460
Watts	37
W/m	29.5
LPW	82

DCO35
Cavity Optic 35°
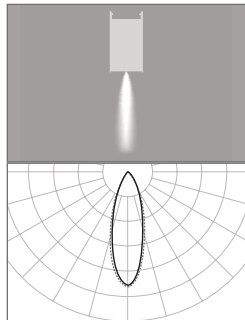
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,460
Watts	37
W/m	29.5
LPW	82

DCO25
Cavity Optic 25°
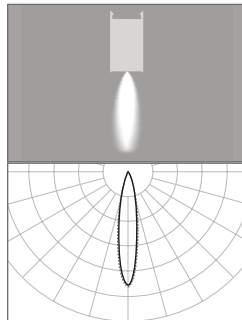
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	3,000
lm/m	2,460
Watts	37
W/m	29.5
LPW	82

Indirect Photometrics Static White Light

ILAM
Lambertian
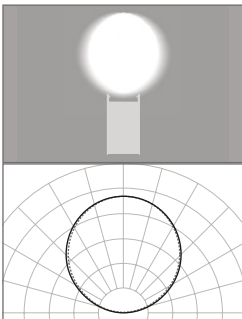
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/m	3,280
Watts	28
W/m	21.9
LPW	150

IBW120
Batwing 120°
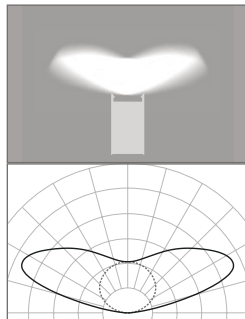
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/m	3,290
Watts	25
W/m	20.7
LPW	159

IFT150
Flat Top 150°
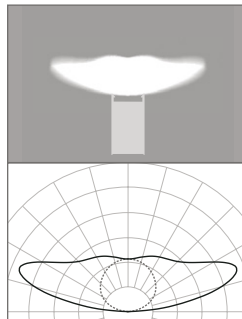
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/m	3,295
Watts	26
W/m	21.3
LPW	155

IA6040
Asymmetric 60° at 40° Tilt°
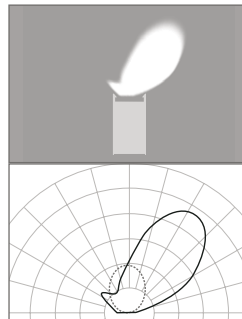
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/m	3,280
Watts	24
W/m	20
LPW	164

IA4560
Asymmetric 45° at 60° Tilt
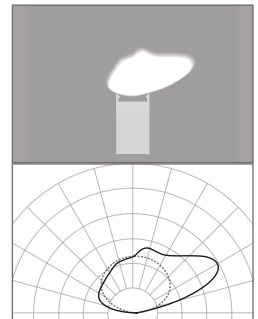
Length	1220mm
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/m	3,280
Watts	24
W/m	20
LPW	164

STANDARDS & CERTIFICATIONS

Compliance

Standard Marks

UKCA CE SPA 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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