LUMAERA MaxBM51 Pendant

VEXICA

51mm High-Performance Linear LED Pendant Mount

Integral Driver

Features & Benefits

Exceptional Performance
Up to 4,921 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

LUMAERA MaxBM51 Pendant

FIXTURE ORDERING

Project Name	
Fixture Type	

1) FIXTURE TYPE & MOUNTING DESIGN

PRODUCT	LENGTH		FINISH		END CAP		OPTIC (Direct Only)	
MABM51-P								
51mm High-Performance Linear LED Pendant Mount	**610mm**	610mm	**MWH**	Matte White (RAL9003)	**E1**	Flat End Cap	**OFL**	Flush Lens
	1220mm	1220mm	**MBK**	Matte Black (RAL9005)			**ORL**	Regressed Lens
	1830mm	1830mm	**MGR**	Matte Gray (RAL7001)			**OCRL**	Continuous Regressed Lens[1]
	2440mm	2440mm	**CAE**	Clear Anodized Effect				
	3048mm	3048mm	**RAL_**	Specify RAL#				
	X_	Specify Xmm						

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			**4101**	4101 lm/m	**IA6040**	Asymmetric 60° at 40° Tilt	**3280**	3,280 lm/m
SUN	Full SunLike	**5000K**	5000K	**DA4005**	Asymmetric 40° at 5° Tilt	**4821**	4821 lm/m	**IA4560**	Asymmetric 45° at 60° Tilt	**4101**	4101 lm/m
SBIOS	Static BIOS	**3022D**	3000K to 2200K			**X_**	Specify lm/m			**4821**	4821 lm/m
DBIOS	Dynamic BIOS		Dim-to-Warm	**DM55**	Medium 55°			**X_**	Specify Beam	**X_**	Specify lm/m
TBIOS	Tunable White BIOS	**3527D**	3500K to 2700K Dim-to-Warm	**DN40**	Narrow 40°						
		X_	Specify CCT	**X_**	Specify Beam						

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (AC)		INTEGRAL DRIVER (POWER)		EMERGENCY BACKUP		CONTROL SYSTEM[2]	
UNV	120/277V	**FDND**	Factory Non-Dimming	**NN**	Not Needed	**NN**	Not Needed
347	347V	**FD01**	Factory 0-10V 1% Dim	**EMC**	Emergency Circuit	**LUT**	Lutron
		FD10	Factory 0-10V 10% Dim	**EMB**	Emergency Battery (10W - Onboard)	**COO**	Cooper
		FDDA	Factory DALI 0.1% Dim	**X_**	Specify Backup	**CAS**	Casambi
		FDDX	Factory DMX Dim			**X_**	Specify Control System
		FDTR	Factory TRIAC Dim				
		LD01	Lutron Hi-Lume 1% Dim				
		LD05	Lutron 5-Series 5% Dim				
		ED00	eldoLED 0-10V 0.1% Dim				
		ED01	eldoLED 0-10V 1% Dim				
		EDDA	eldoLED DALI 0.1% Dim				
		X_	Specify Driver				

4) FIXTURE TYPE & MOUNTING DESIGN

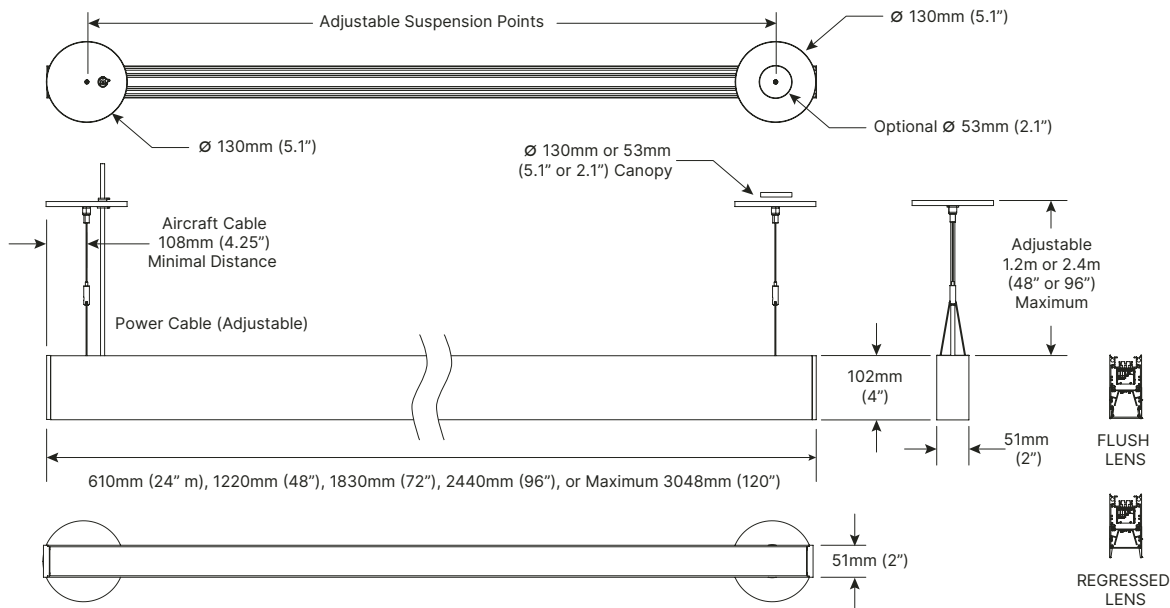| MOUNTING TYPE		CANOPY		POWER CORD	
DJ	Drywall/J-Box Mount	**RCWH51**	51mm Round Canopy, White	**S12WH**	1.2m White Cord
T1	14mm Flat T-Bar Mount	**RCBK51**	51mm Round Canopy, Black	**S12BK**	1.2m Black Cord
T2	14mm Bolt Slot T-Bar Mount	**RCWH127**	127mm Round Canopy, White	**S24WH**	2.4m White Cord
T3	24mm Flat T-Bar Mount	**RCBK127**	127mm Round Canopy, Black	**S24BK**	2.4m Black Cord

NOTES

[1] Continuous Regressed Lens ships on a roll for seamless lens installation.
[2] The control system and driver must be compatible.

FIXTURE DESIGN

Dimensions

Adjustable Suspension Points

Ø 130mm (5.1")

Ø 130mm (5.1")

Optional Ø 53mm (2.1")

Ø 130mm or 53mm (5.1" or 2.1") Canopy

Aircraft Cable 108mm (4.25") Minimal Distance

Power Cable (Adjustable)

Adjustable 1.2m or 2.4m (48" or 96") Maximum

102mm (4")

51mm (2")

FLUSH LENS

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

51mm (2")

REGRESSED LENS

Length

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

Finish

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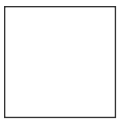
White (RAL9003)   Black (RAL9005)   Gray (RAL7001)   Clear Anodised Effect   Custom RAL
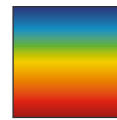
Housing Material   6063-T5 extruded, recycled aluminum

Mounting Brackets   Sheet Metal

End Cap

End Cap Options   Flat

End Cap Material   Machined or Cast Aluminium

Optic

Lens Options   Flush, Regressed and Continuous Regressed

Lens Material   Acrylic (PMMA)

Voltage

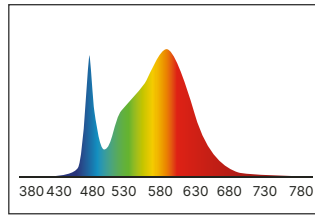**Input Voltage (AC)**   120/277 VAC and 347 VAC, 50/60Hz

LED SELECTION GUIDE
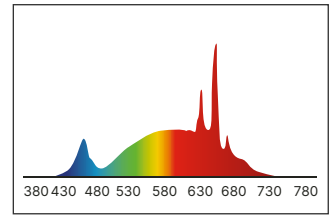
S80: Standard 80+ CRI
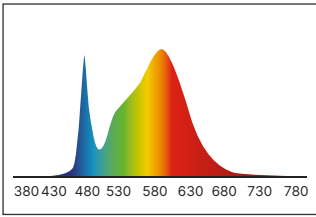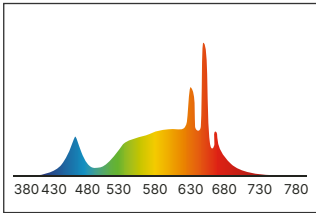

S90: Standard 90+ CRI
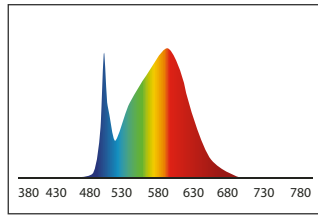
HE80: High-Efficiency 80+ CRI
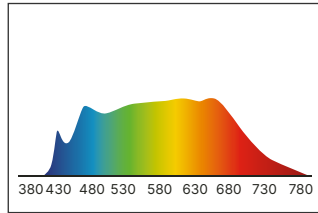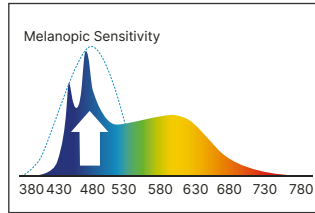

HE90: High-Efficiency 90+ CRI
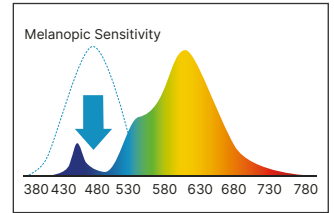

HD95: High-Definition 95+ CRI

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 (Integral Drivers)

|	
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
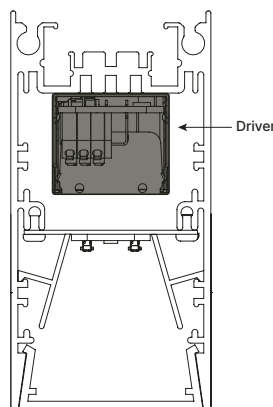
Drivers are integral to the fixture and are included.

They provide 0-10V, DALI, DMX, and TRIAC dimming.

Also compatible with Cooper and other common building control systems, including PoE and wireless.

OPTICS OPTIONS
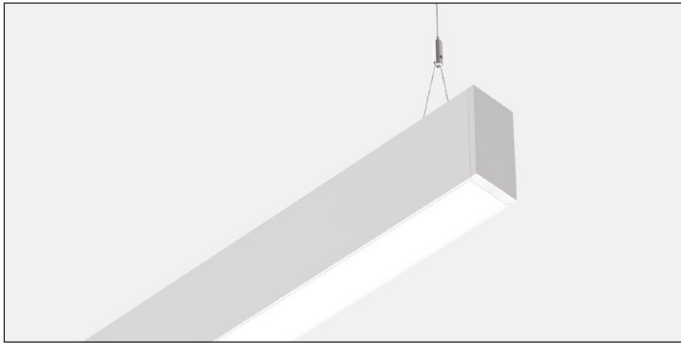
Flush Lens
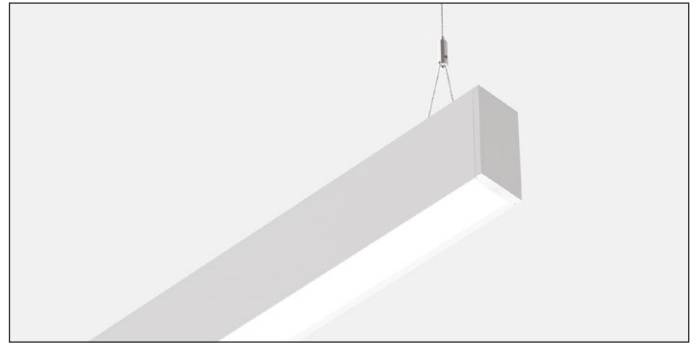
Regressed Lens

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.
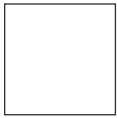
Drywall/J-Box Mount

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

51mm and 127mm, Round

Canopy Colours

White (RAL9003)

Black (RAL9005)

Canopy Material

Powder Coated Steel

Power Cords

1.2m Cable Kit

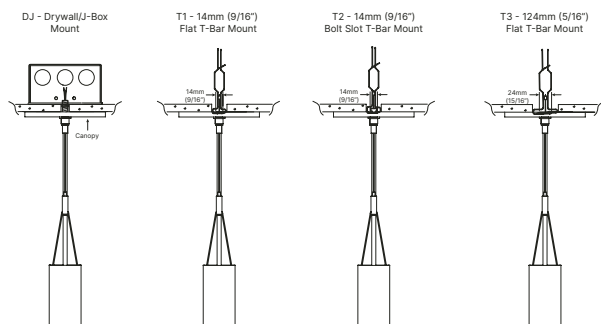White and Black

2.4m Cable Kit

White and Black

Mounting Options

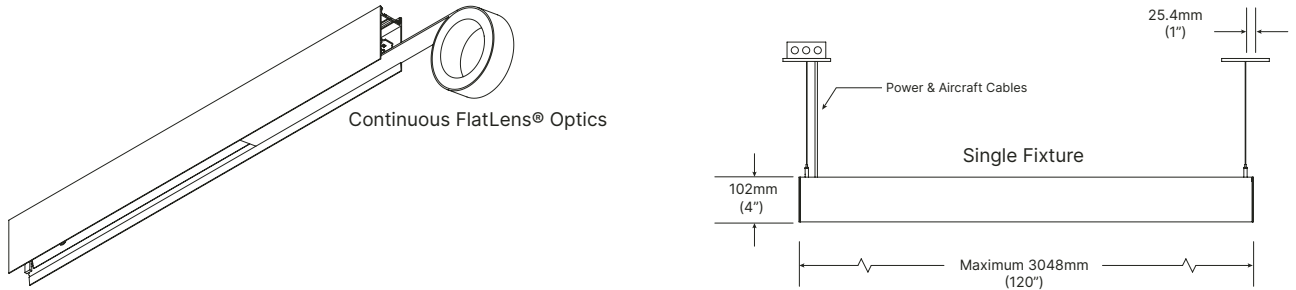Typically suspended at a distance of between 0.6m and 1.8m.

Supplied hardware includes:
- Cable length adjustable at fixture level
- 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

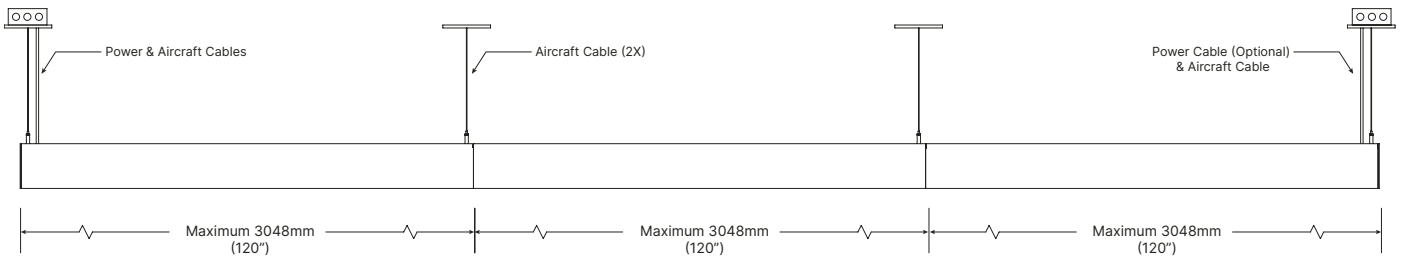T3 - 124mm (5/16")
Flat T-Bar Mount

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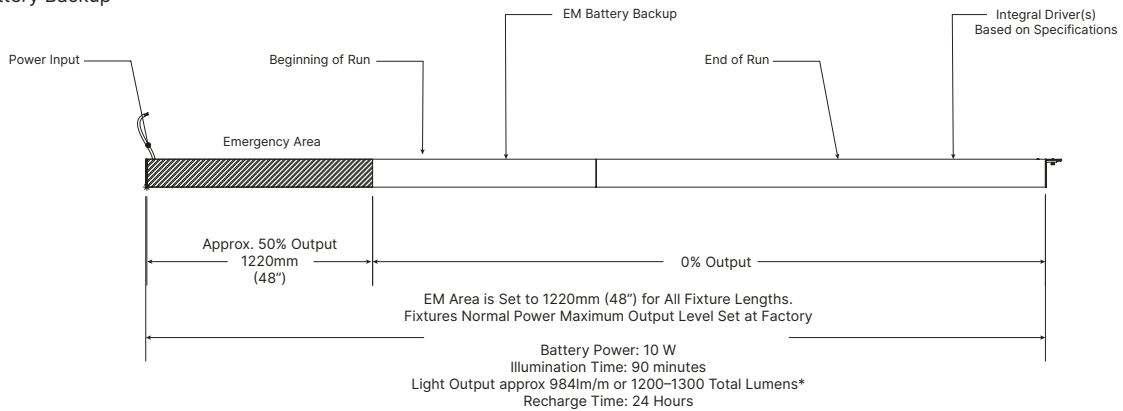
Lens can be supplied in a maximum 76m roll length with Continuous FlatLENS Optics to be installed on-site for a seamless light surface.
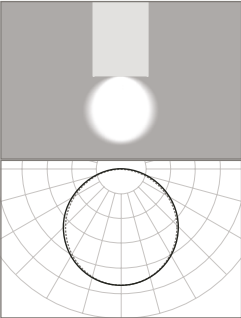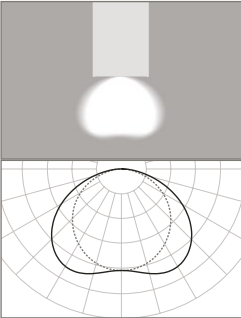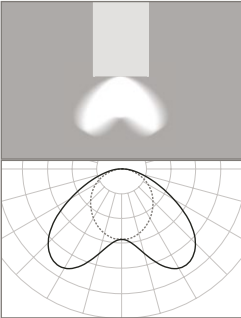
Continuous FlatLens® Optics

25.4mm
(1")

Power & Aircraft Cables

Single Fixture

102mm
(4")

Maximum 3048mm
(120")

Standard Continuous Run

Power & Aircraft Cables

Aircraft Cable (2X)

Power Cable (Optional)
& Aircraft Cable

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 984lm/m or 1200–1300 Total Lumens*
Recharge Time: 24 Hours

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

LUMAERA MaxBM51 Pendant

BEAM PATTERN SELECTION GUIDE

Beam Pattern Availability

OPTIC	BEAM PATTERN						
	DLAM	**DBW60**	**DDA70**	**DA5025**	**DA4005**	**DM55**	**DN40**
Flush Lens	*	*	*	*	*	*	*
Regressed Lens	*	*	*	*	*	*	*

Direct Photometrics Static White Light

DLAM
Lambertian

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,460
Watts	21
W/m	17.3
LPW	142

DBW60
Batwing 60°

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,460
Watts	21
W/m	17
LPW	145

DDA70
Double Asymmetric 70°

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,460
Watts	22
W/m	17.8
LPW	138

DA5025
Asymmetric 50° at 60° Tilt

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,460
Watts	21
W/m	17.2
LPW	143

DA4005
Asymmetric 40° at 5° Tilt

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,461
Watts	22
W/m	17.7
LPW	139

DM55
Medium 55°

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,461
Watts	22
W/m	17.9
LPW	137

DN40
Narrow 40°

Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	3,000
lm/m	2,461
Watts	22
W/m	18.1
LPW	136

Indirect Photometrics Static White Light

ILAM

Lambertian
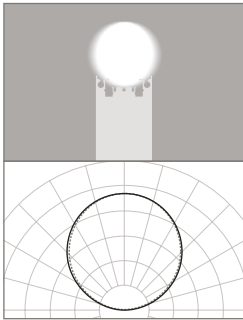
Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	4,000
lm/m	3,280
Watts	26
W/m	21.2
LPW	155

IBW120

Batwing 120°
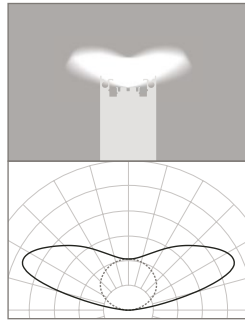
Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	4,000
lm/m	3,280
Watts	25
W/m	20.9
LPW	157

IFT150

Flat Top 150°
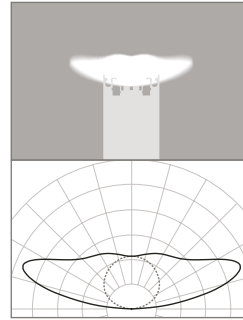
Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	4,000
lm/m	3,280
Watts	27
W/m	21.9
LPW	150

IA6040

Asymmetric 60° at 40° Tilt°
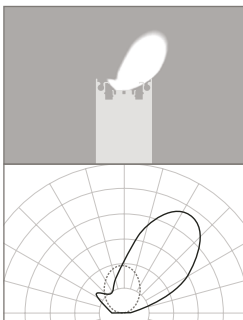
Length	1220mm
LED	HE90
CRI/CCT	90+/3500K
Lumens	4,000
lm/m	3,280
Watts	27
W/m	22
LPW	149

IA4560

Asymmetric 45° at 60° Tilt
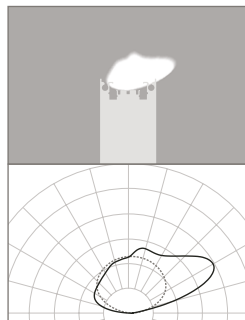
Length	1220mm
LED	HE90
CRI/CCT	80+/3500K
Lumens	4,000
lm/m	3,280
Watts	26
W/m	21.6
LPW	152

STANDARDS & CERTIFICATIONS

Compliance

Standard Marks

UK CA   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**

QR CODE   QR CODE

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

VEXICA