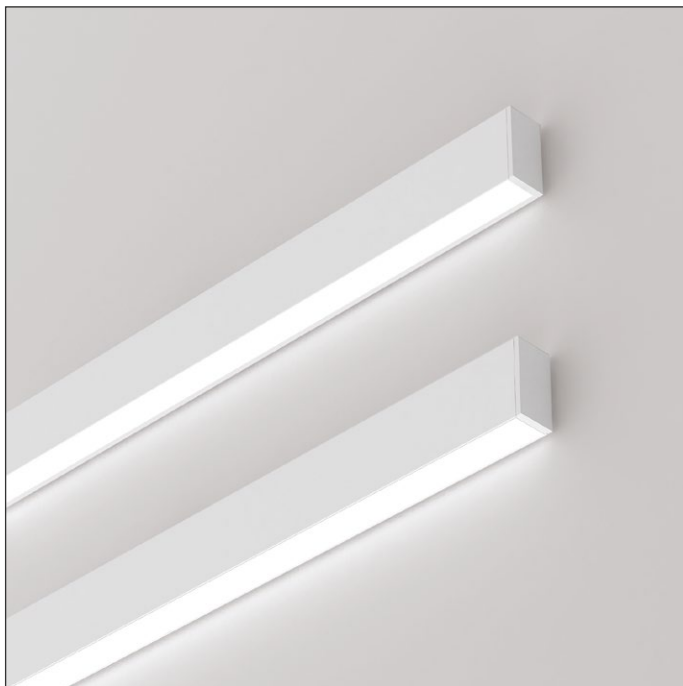# LUMAERA MaxBM51 Wall

VEXICA

51mm High-Performance Linear LED Wall 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

FIXTURE ORDERING

Project Name	
Fixture Type	

1) FIXTURE TYPE & MOUNTING DESIGN

PRODUCT	LENGTH	FINISH	END CAP	OPTIC (Direct Only)
MABM51-W				

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

2) LED LIGHT ENGINE

CRI		CCT		DIRECT BEAM PATTERN		DIRECT OUTPUT		INDIRECT BEAM PATTERN		INDIRECT OUTPUT	
S80 **S90** **HE80** **HE90** **HD95** **SUN** **SBIOS** **DBIOS** **TBIOS**	Std. 80 CRI Std. 90 CRI High-Eff. 80 CRI High-Eff. 90 CRI High-Def. 95 CRI Full SunLike Static BIOS Dynamic BIOS Tunable White BIOS	**2200K** **2700K** **3000K** **3500K** **4000K** **5000K** **3022D** **3527D** **X_**	2200K 2700K 3000K 3500K 4000K 5000K 3000K to 2200K Dim-to-Warm 3500K to 2700K Dim-to-Warm Specify CCT	**DLAM** **DA5025** **DA4005** **DM55** **DN40** **X_**	Lambertian Asymmetric 50° at 25° Tilt Asymmetric 40° at 5° Tilt Medium 55° Narrow 40° Specify Beam	**1148** **1640** **2460** **3280** **4101** **4821** **X_**	1148 lm/m 1640 lm/m 2,460 lm/m 3,280 lm/m 4101 lm/m 4821 lm/m Specify lm/m	**NN** **ILAM** **IBW120** **IFT150** **IA6040** **IA4560** **X_**	Not Needed Lambertian Batwing 120° FlatTop 150° Asymmetric 60° at 40° Tilt Asymmetric 45° at 60° Tilt Specify Beam	**NN** **1148** **1640** **2460** **3280** **4101** **4821** **X_**	Not Needed 1148 lm/m 1640 lm/m 2,460 lm/m 3,280 lm/m 4101 lm/m 4821 lm/m Specify lm/m

3) FIXTURE POWER & CONTROLS

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

4) FIXTURE TYPE & MOUNTING DESIGN

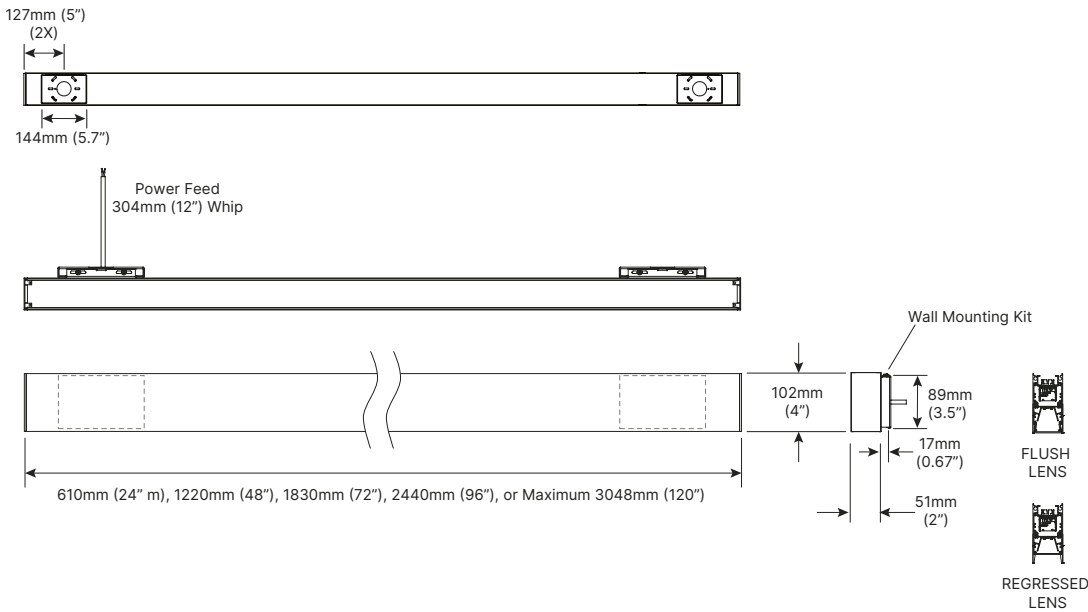| MOUNTING TYPE		POWER CORD	
WM	Wall Mount	**WM17WH** **WM17BK**	17mm White Stainless Steel Wall Mounting Plate 17mm Black Stainless Steel Wall Mounting Plate

NOTES

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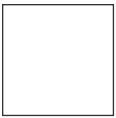
FIXTURE DESIGN

Dimensions

Length

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

Finish

Housing Colours (Matt Finish)

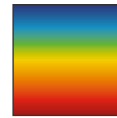White (RAL9003)   Black (RAL9005)   Gray (RAL7001)   Clear Anodised Effect   Custom RAL

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

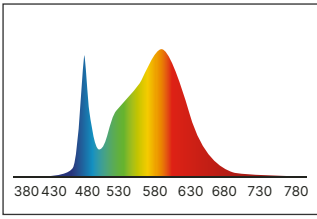**Lens Material**   Acrylic (PMMA)

Voltage

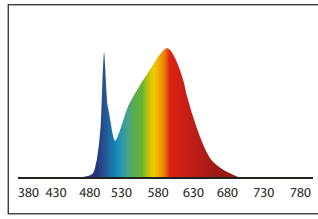**Input Voltage (AC)**   120/277 VAC and 347 VAC, 50/60Hz
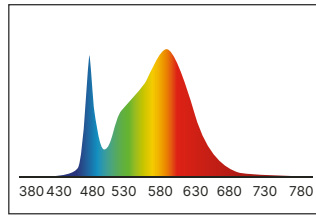
LED SELECTION GUIDE
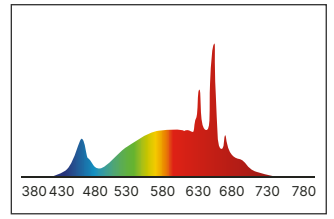
S80: Standard 80+ CRI

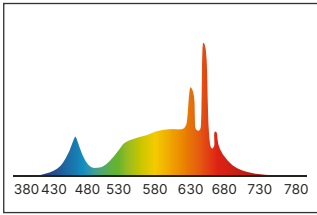

S90: Standard 90+ CRI

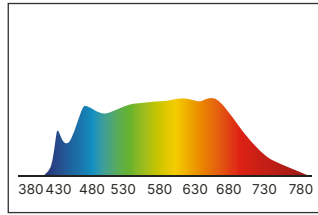
HE80: High-Efficiency 80+ CRI
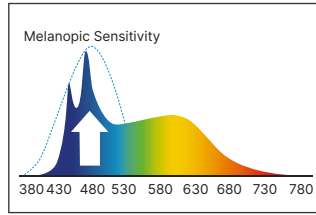

HE90: High-Efficiency 90+ CRI

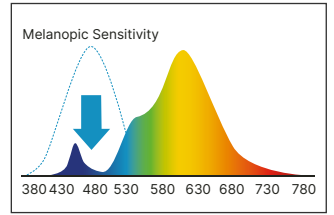**HD95:** High-Definition 95+ CRI

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
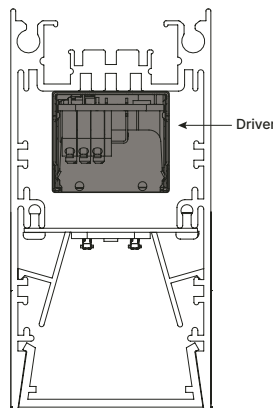
Driver

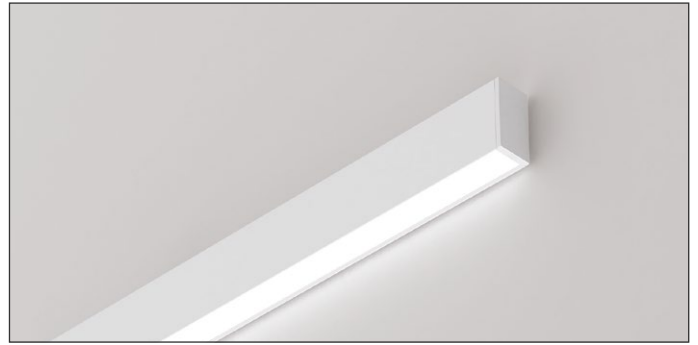Drivers are integral to the fixture and are included.

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
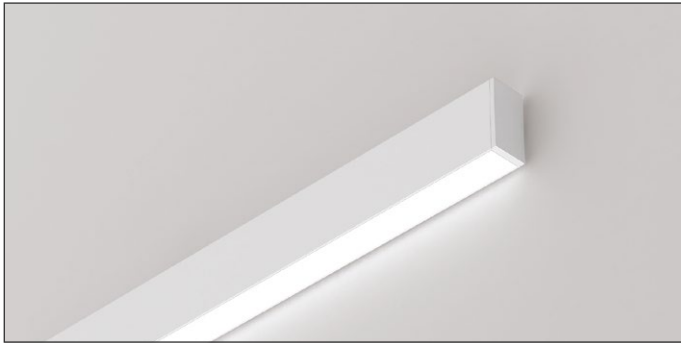
Flush Lens

Regressed Lens

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

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

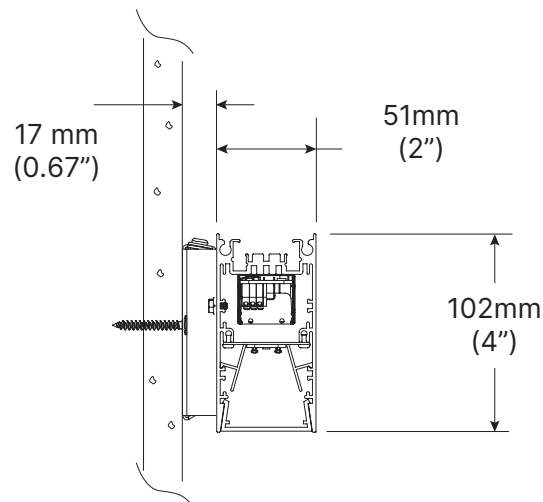**Wall Mounting Kit**   17mm Stainless Steel Wall Mounting Plate, White and Black

Power Feed

Power Whip   305mm

Mounting Option

WM - Wall Mount

17 mm
(0.67")

51mm
(2")

102mm
(4")
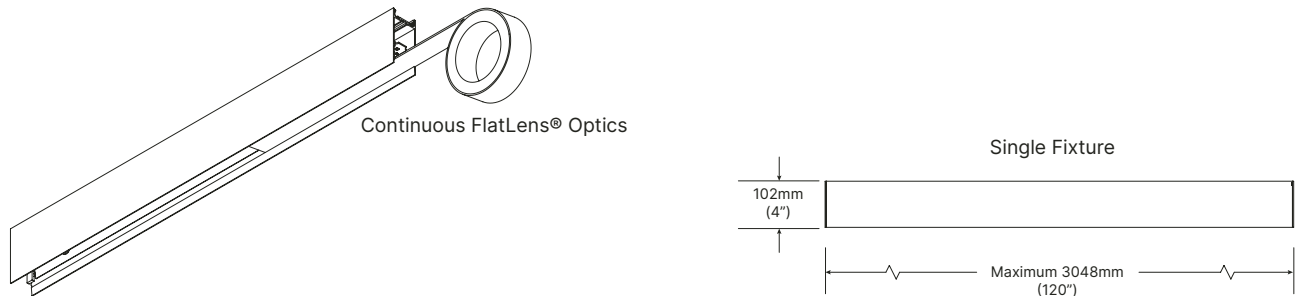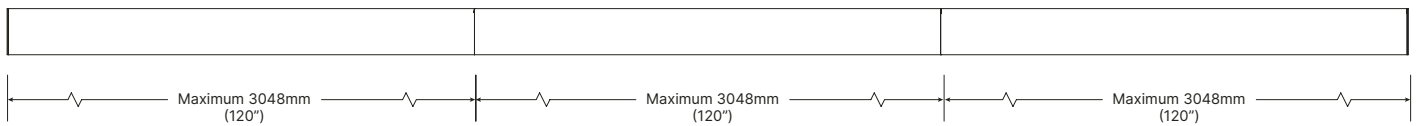
Standard Lengths & Continuous Runs

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

Single Fixture

102mm
(4")

Maximum 3048mm
(120")

Standard Continuous Run

| 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	DA5025	DA4005	DM55	DN40
Flush Lens	*	*	*	*	*
Regressed Lens	*	*	*	*	*

Direct Photometrics Static White Light

DLAM	DA5025	DA4005	DM55	DN40
Lambertian	Asymmetric 50° at 60° Tilt	Asymmetric 40° at 5° Tilt	Medium 55°	Narrow 40°

Length 1220mm	**Length** 1220mm	**Length** 1220mm	**Length** 1220mm	**Length** 1220mm
LED HE90	**LED** HE90	**LED** HE90	**LED** HE90	**LED** HE90
CRI/CCT 90+/3500K	**CRI/CCT** 90+/3500K	**CRI/CCT** 90+/3500K	**CRI/CCT** 90+/3500K	**CRI/CCT** 90+/3500K
Lumens 3,000	**Lumens** 3,000	**Lumens** 3,000	**Lumens** 3,000	**Lumens** 3,000
lm/m 2,460	**lm/m** 2,460	**lm/m** 2,460	**lm/m** 2,460	**lm/m** 2,460
Watts 21	**Watts** 21	**Watts** 22	**Watts** 22	**Watts** 22
W/m 17.3	**W/m** 17.2	**W/m** 17.7	**W/m** 17.9	**W/m** 18.1
LPW 142	**LPW** 143	**LPW** 139	**LPW** 137	**LPW** 136

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

Length 1220mm	**Length** 1220mm	**Length** 1220mm	**Length** 1220mm	**Length** 1220mm
LED HE90	**LED** HE90	**LED** HE90	**LED** HE90	**LED** HE90
CRI/CCT 90+/3500K	**CRI/CCT** 90+/3500K	**CRI/CCT** 90+/3500K	**CRI/CCT** 90+/3500K	**CRI/CCT** 80+/3500K
Lumens 4,000	**Lumens** 4,000	**Lumens** 4,000	**Lumens** 4,000	**Lumens** 4,000
lm/m 3,280	**lm/m** 3,280	**lm/m** 3,280	**lm/m** 3,280	**lm/m** 3,280
Watts 26	**Watts** 25	**Watts** 27	**Watts** 27	**Watts** 26
W/m 21.2	**W/m** 20.9	**W/m** 21.9	**W/m** 22	**W/m** 21.6
LPW 155	**LPW** 157	**LPW** 150	**LPW** 149	**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

VEXICA.COM | SALES@VEXICA.COM | +44 (0)113 243 4813

VEXICA TECHNOLOGY | Typhoon House, Moxon Way, Leeds, West Yorkshire, LS25 6FB, United Kingdom