

LUMAERA MaxBM51 Surface



51mm High-Performance Linear LED Surface 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-S				
51mm High-Performance Linear LED Surface Mount	610mm 610mm 1220mm 1220mm 1830mm 1830mm 2440mm 2440mm 3048mm 3048mm X_ Specify Xmm	MWH Matte White (RAL9003) MBK Matte Black (RAL9005) MGR Matte Gray (RAL7001) CAE Clear Anodized Effect RAL_ Specify RAL#	E1 Flat End Cap	OFL Flush Lens ORL Regressed Lens OCRL Continuous Regressed Lens ¹

2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT
S80 Std. 80 CRI	2200K 2200K	DLAM Lambertian	1148 1148 lm/m
S90 Std. 90 CRI	2700K 2700K	DBW60 Batwing 60°	1640 1640 lm/m
HE80 High-Eff. 80 CRI	3000K 3000K	DDA70 Double Asymmetric 70°	2460 2,460 lm/m
HE90 High-Eff. 90 CRI	3500K 3500K	DA5025 Asymmetric 50° at 25° Tilt	3280 3,280 lm/m
HD95 High-Def. 95 CRI	4000K 4000K	DA4005 Asymmetric 40° at 5° Tilt	4101 4101 lm/m
SUN Full SunLike	5000K 5000K		4821 4821 lm/m
SBIOS Static BIOS	3022D 3000K to 2200K	DM55 Dim-to-Warm Medium 55°	X_ Specify lm/m
DBIOS Dynamic BIOS	3527D 3500K to 2700K	DN40 Narrow 40°	
TBIOS Tunable White BIOS	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	POWER CORD	MOUNTING KIT
SC1 Surface Mounting Clip	S06WH 0.6m White Cable Kit	SSMB Stainless Steel Surface Mounting Bracket
T1 14mm Flat T-Bar Mount	S06BK 0.6m Black Cable Kit	
T2 14mm Bolt Slot T-Bar Mount		
T3 24mm Flat T-Bar Mount		

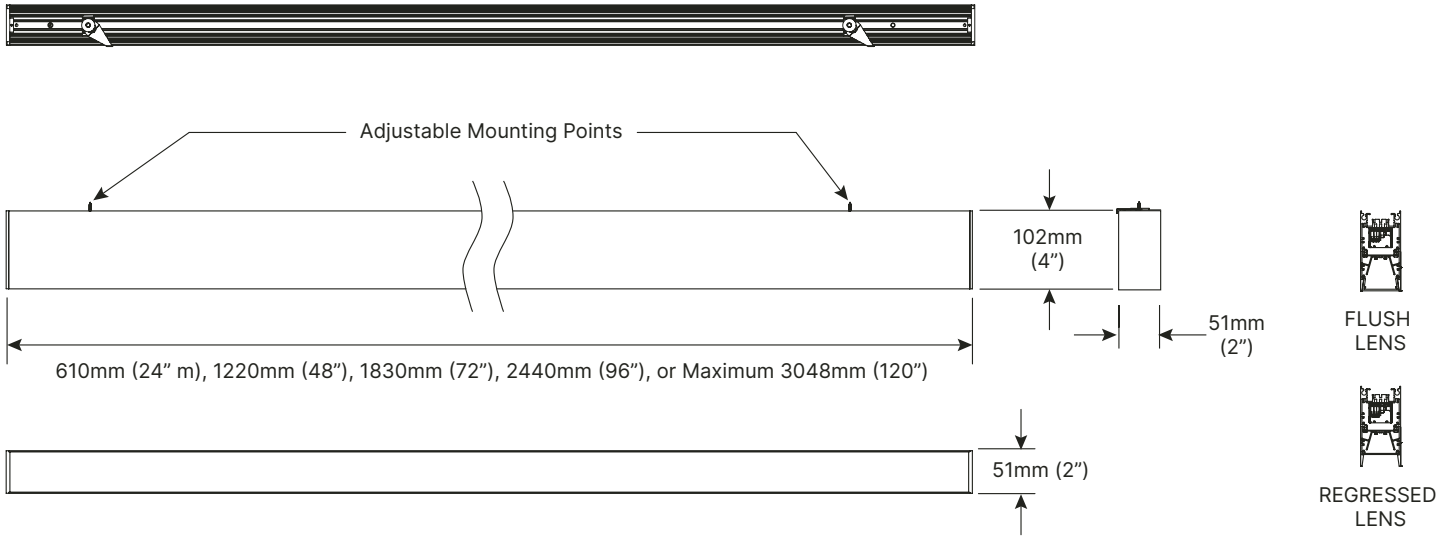
NOTES

¹Continuous Regressed Lens ships on a roll for seamless lens installation.

²The control system and driver must be compatible.

FIXTURE DESIGN

Dimensions



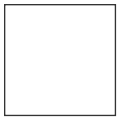
Length

Length Options

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

Finish

Housing Colours (Matt Finish)



White (RAL9003)



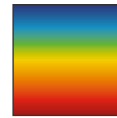
Black (RAL9005)



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)

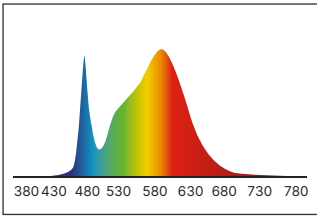
Voltage

Input Voltage (AC)

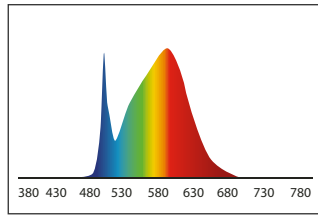
120/277 VAC and 347 VAC, 50/60Hz

LED SELECTION GUIDE

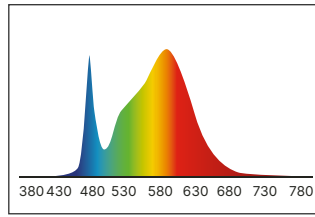
S80: Standard 80+ CRI



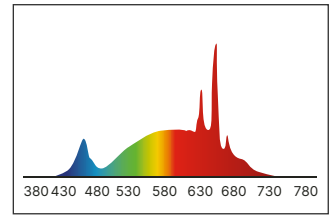
S90: Standard 90+ CRI



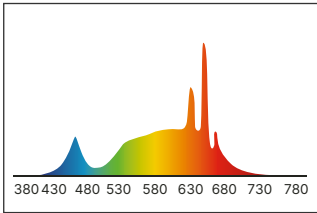
HE80: High-Efficiency 80+ CRI



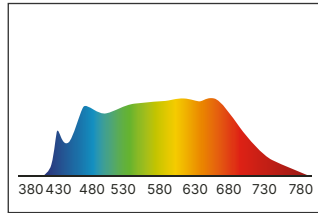
HE90: High-Efficiency 90+ CRI



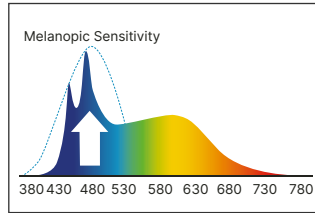
HD95: High-Definition 95+ CRI



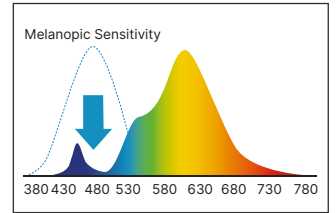
SUN: Full Spectrum "SunLike"



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)

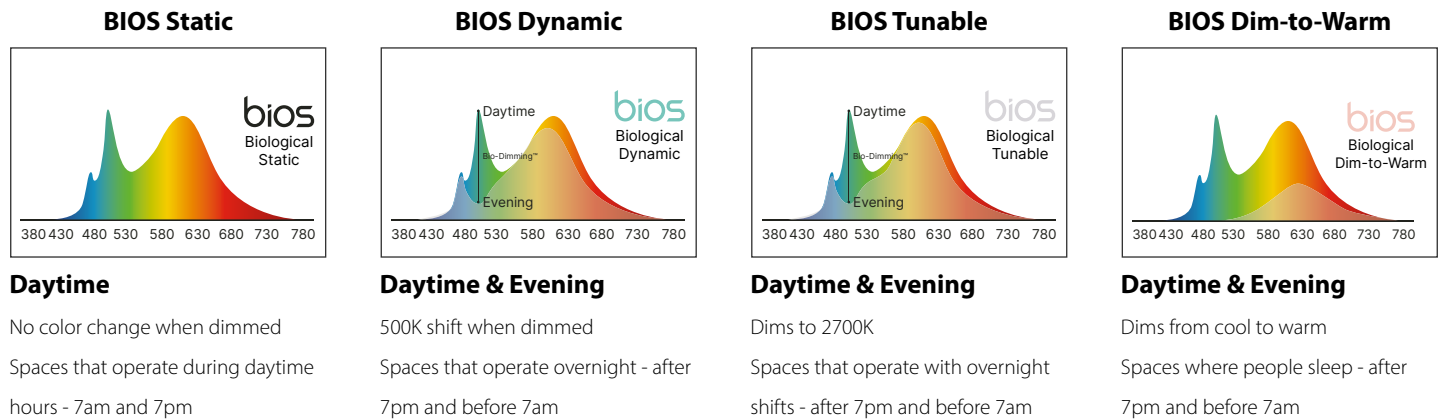
CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	-	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	-	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	-	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN	-	0.90	0.92	1.00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



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



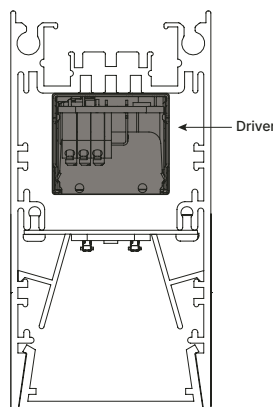
Control Systems (Integral Drivers)

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.

Power Cord

Cable Kit

0.6m Cable, White and Black

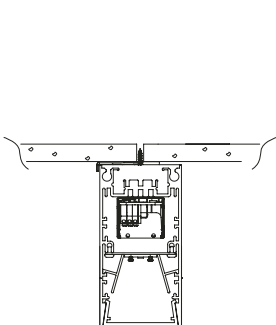
Mounting Kit

Surface Mounting Bracket

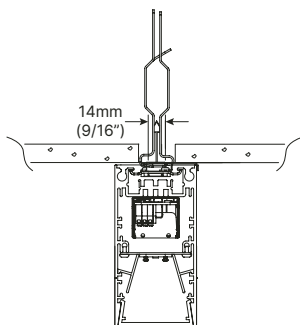
Stainless Steel

Mounting Options

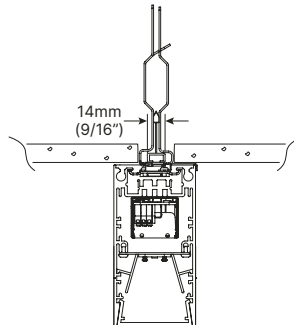
SC1 - Surface Mount
Clip



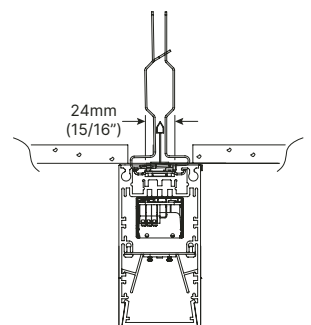
T1 - 14mm (9/16")
Flat T-Bar Mount



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



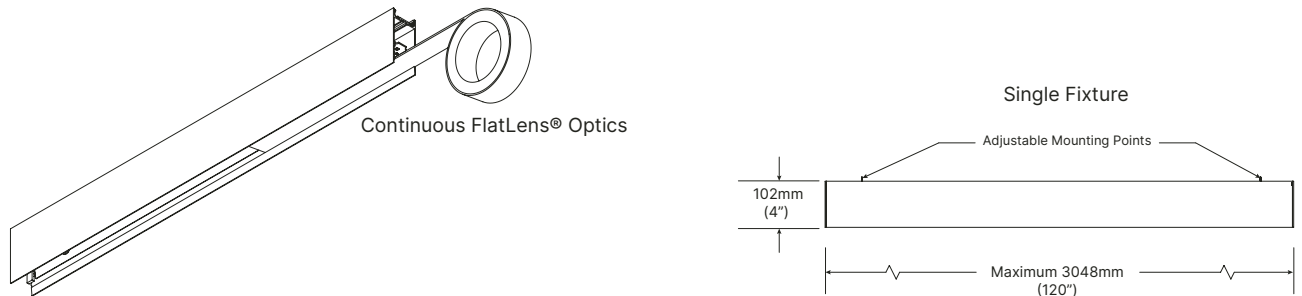
T3 - 24mm (15/16")
Flat T-Bar Mount



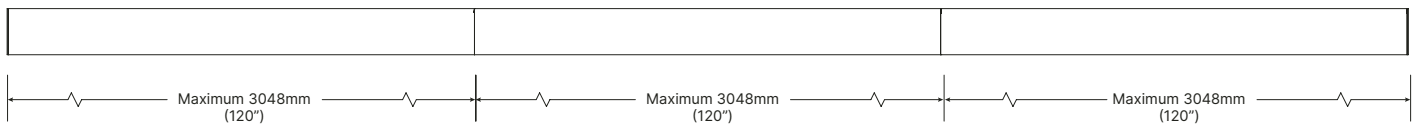
Standard Lengths & Continuous Runs

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.

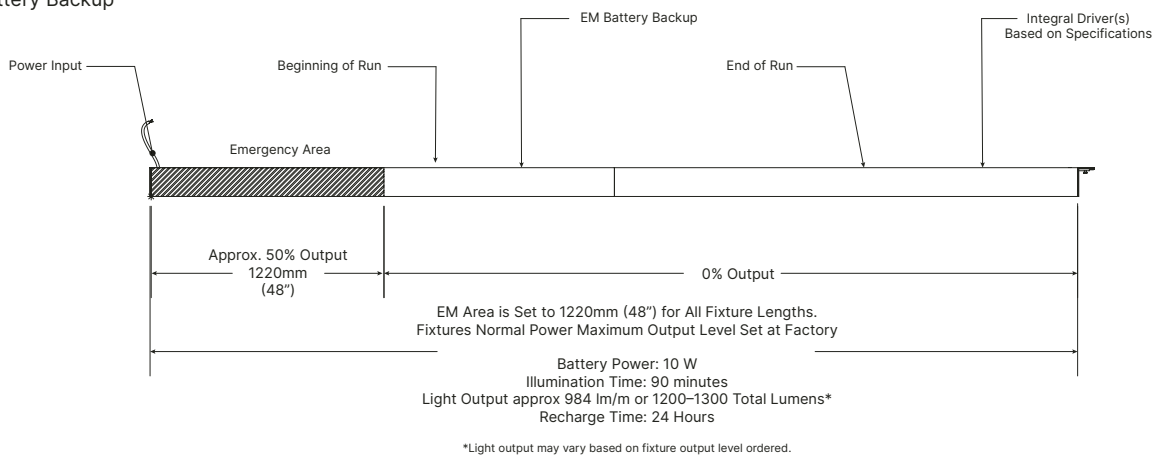
Lens can be supplied in a maximum 76m roll length with Continuous FlatLENS Optics to be installed on-site for a seamless light surface.



Standard Continuous Run



Emergency Battery Backup

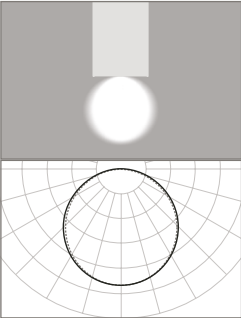
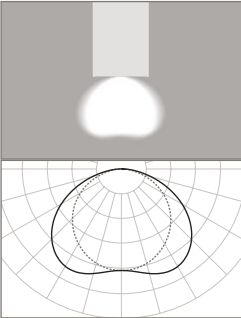
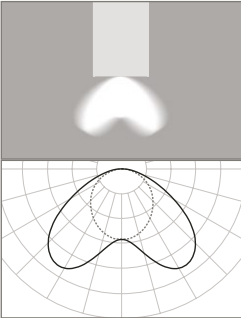
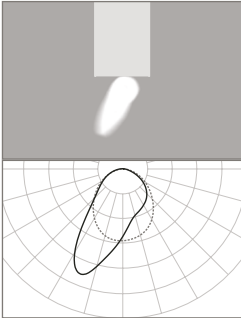
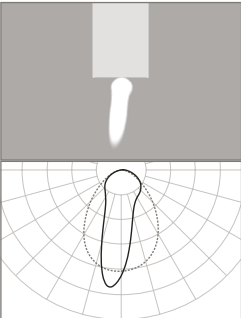
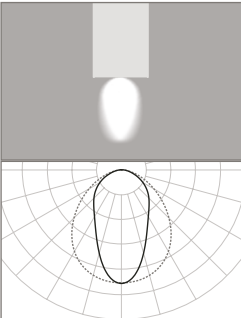
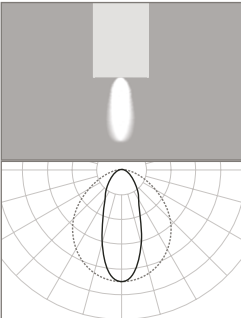


BEAM PATTERN SELECTION GUIDE

Beam Pattern Availability

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

Direct Photometrics Static White Light

<p>DLAM Lambertian</p> 	<p>DBW60 Batwing 60°</p> 	<p>DDA70 Double Asymmetric 70°</p> 	<p>DA5025 Asymmetric 50° at 60° Tilt</p> 
<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,460 Watts 21 W/m 17.3 LPW 142</p>	<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,460 Watts 21 W/m 17 LPW 145</p>	<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,460 Watts 22 W/m 17.8 LPW 138</p>	<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,460 Watts 21 W/m 17.2 LPW 143</p>
<p>DA4005 Asymmetric 40° at 5° Tilt</p> 	<p>DM55 Medium 55°</p> 	<p>DN40 Narrow 40°</p> 	
<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,461 Watts 22 W/m 17.7 LPW 139</p>	<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,461 Watts 22 W/m 17.9 LPW 137</p>	<p>Length 1220mm LED HE90 CRI/CCT 90+/3500K Lumens 3,000 lm/m 2,461 Watts 22 W/m 18.1 LPW 136</p>	

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

QR CODE

QR CODE

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

