LUMAERA MidiBM Surface

VEXICA

36mm Well-Proportioned Linear LED Beam Surface Mount

Integral 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)
MDBM36-S				

PRODUCT	LENGTH		FINISH		END CAP		OPTIC (Direct Only)	
36mm Well-Proportioned Linear LED Beam Surface Mount	**610mm**	610mm	**MWH**	Matte White (RAL9003)	**E1**	Flat End Cap	**FL**	Flush Lens
	1220mm	1220mm	**MBK**	Matte Black (RAL9005)			**RL**	Regressed Lens
	1830mm	1830mm	**MGR**	Matte Gray (RAL7001)			**CRL**	Continuous Regressed Lens[1]
	2440mm	2440mm	**CAE**	Clear Anodized Effect			**BWH**	Baffle, White
	3048mm	3048mm	**RAL_**	Specify RAL#			**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	
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	**DA3010**	Asymmetric 30°	**3280**	3,280 lm/m
HD95	High-Def. 95 CRI	**4000K**	4000K		at 10° Tilt		
SUN	Full SunLike	**5000K**	5000K	**DA3015**	Asymmetric 30°		
SBIOS	Static BIOS	**3022D**	3000K to 2200K		at 15° Tilt		
DBIOS	Dynamic BIOS		Dim-to-Warm	**DM70**	Medium 70°		
TBIOS	Tunable White BIOS	**3527D**	3500K to 2700K	**DN40**	Narrow 40°		
			Dim-to-Warm	**DCO45**	Cavity Optics 45°		
				DCO35	Cavity Optics 35°		
				DCO25	Cavity Optics 25°		

3) FIXTURE POWER OPTIONS

LINE VOLTAGE (DC)		EMERGENCY BACKUP	
UNV	120/277V	**NN**	Not Needed
347	347V	**EMC**	Emergency Circuit
		EMB	Emergency Battery (Remote)

4) FIXTURE TYPE & MOUNTING DESIGN

MOUNTING TYPE		POWER CORD		MOUNTING KIT	
DJ	Drywall/J-Box Mount	**P6WH**	0.6m White Cord (Ø 3mm)	**SSMB**	Stainless Steel Surface Mounting Bracket
T1	14mm Flat T-Bar Mount	**P6BK**	0.6m Black Cord (Ø 3mm)		
T2	14mm Bolt Slot T-Bar Mount				
T3	24mm Flat T-Bar Mount				

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

FIXTURE DESIGN

Dimensions

Adjustable Mounting Points

75mm (2.95")

35.6mm (1.4")

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

35.6mm (1.4")

35.6mm (1.4")
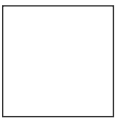
FLUSH LENS

REGRESSED LENS
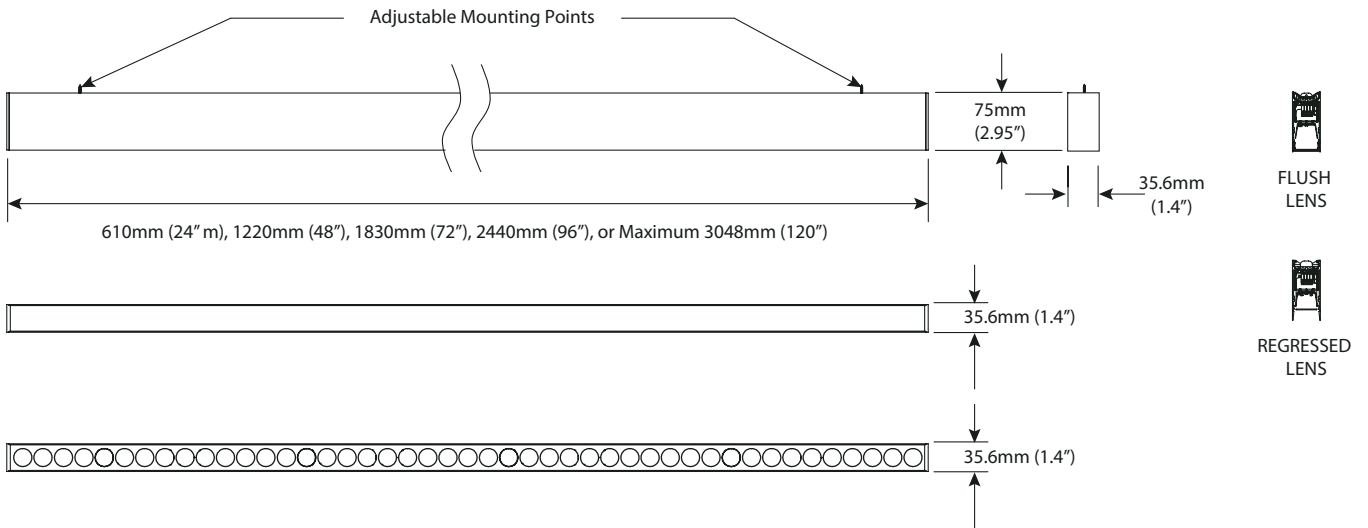
Length

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

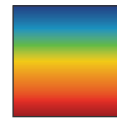### Finish

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

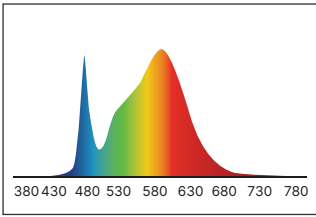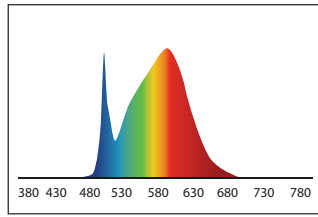| **Lens Options** | Flush, Regressed, Continuous Regressed, Cavity Optics, and Baffled |
| **Lens Material** | Acrylic (PMMA) |

Voltage

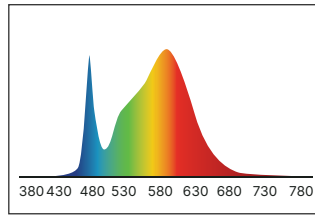| **Input Voltage (AC)** | 120/277 VAC and 347 VAC, 50/60Hz |

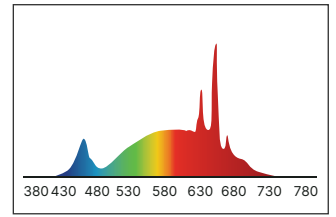## LED SELECTION GUIDE

S80: Standard 80+ CRI

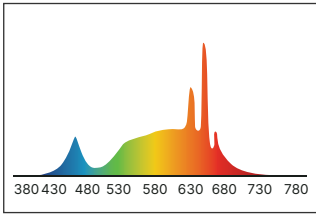

S90: Standard 90+ CRI

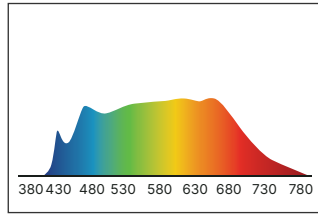
HE80: High-Efficiency 80+ CRI
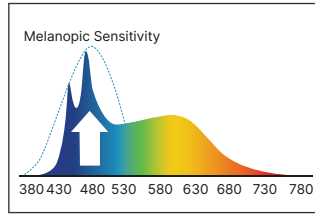

HE90: High-Efficiency 90+ CRI

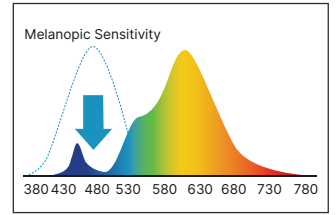**HD95:** High-Definition 95+ CRI

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**
bios Biological Static	bios Biological Dynamic	bios Biological Tunable	bios Biological 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)

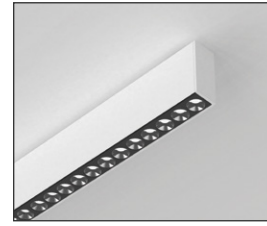|	
Other	Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim, and other drivers are available, consult factory (not all integral)
Lutron	Hi-Lume 1% Dimming and 5-Series 5% Dimming
Cooper	Compatible driver
Casambi (Wireless)	Compatible driver

OPTICS OPTIONS
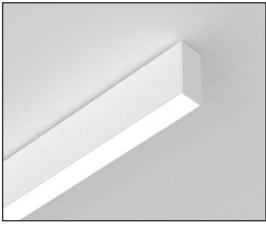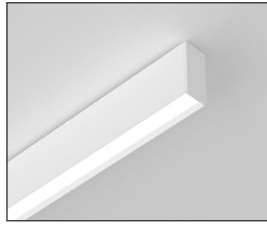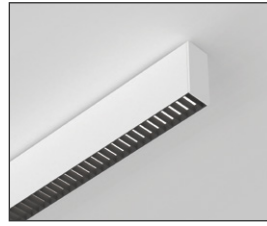
Flush Lens	Regressed Lens	Baffles (Black or White)	Round Cavity Optics (Black or White)	Square Cavity Optics (Black or White)
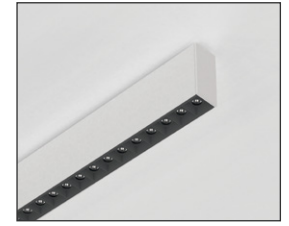
FIXTURE MOUNTING & CONNECTIONS

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.
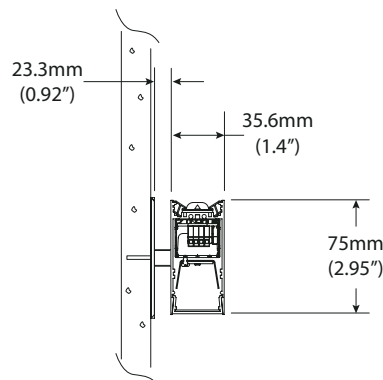
Power Cords

0.6m Cable Kit

White or Black

Mounting Kit

Surface Mounting Bracket

Stainless Steel

Mounting Options
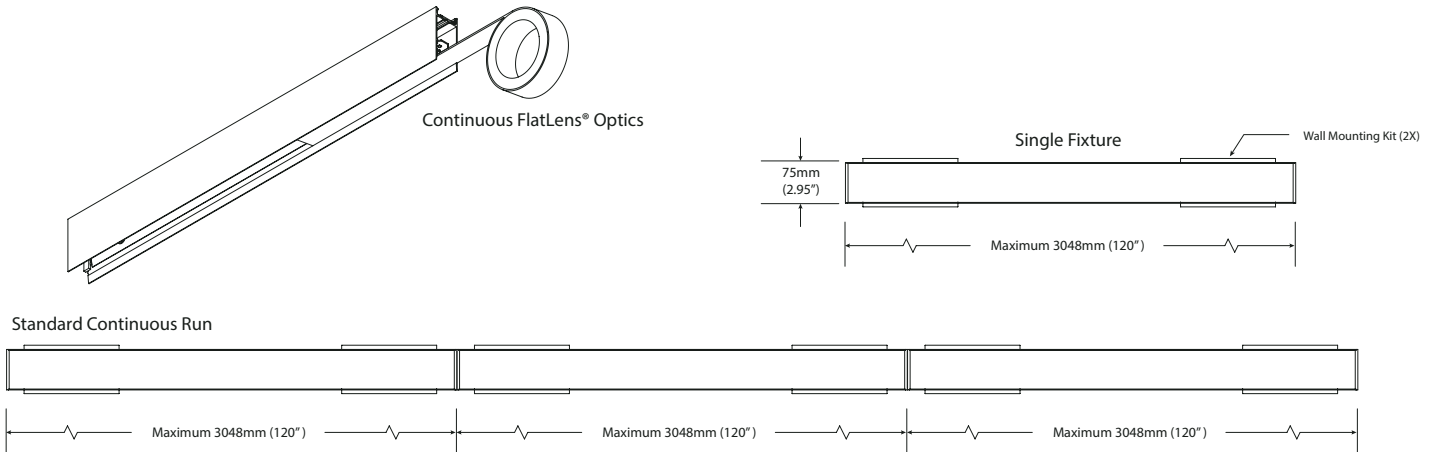
WM - Wall Mount
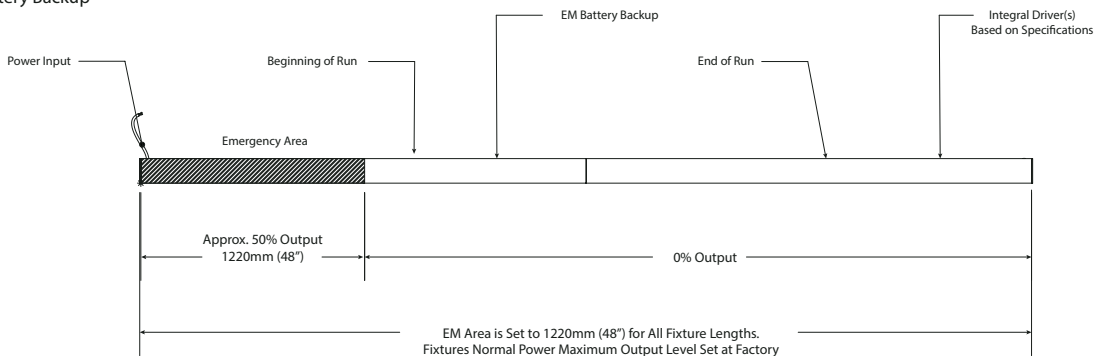
23.3mm
(0.92")

35.6mm
(1.4")

75mm
(2.95")

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

Wall Mounting Kit (2X)

75mm (2.95")

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

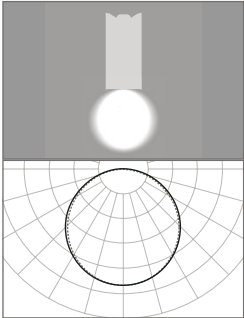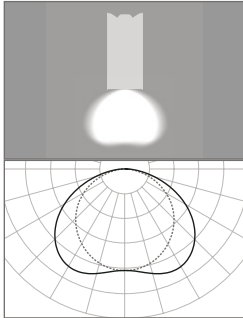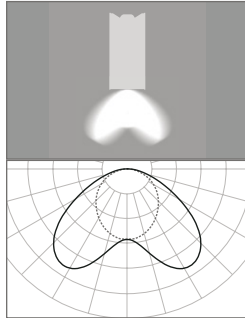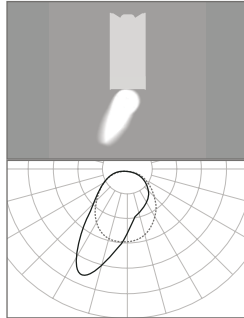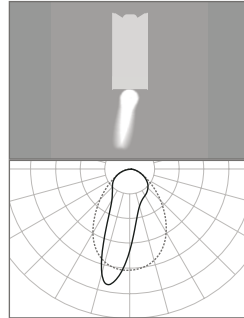*Light output may vary based on fixture output level ordered.

BEAM PATTERN SELECTION GUIDE
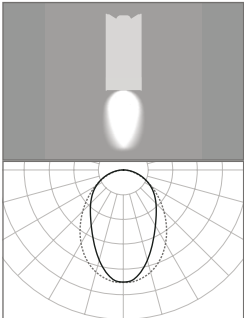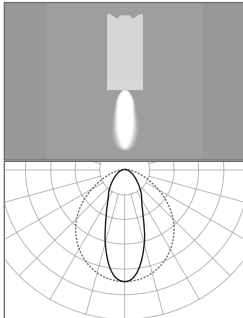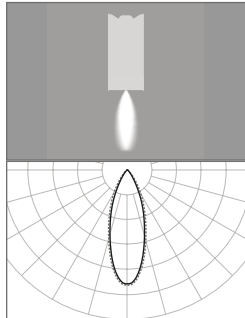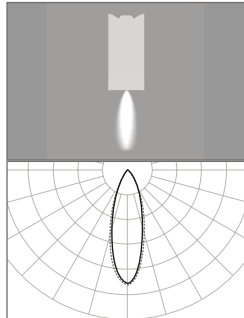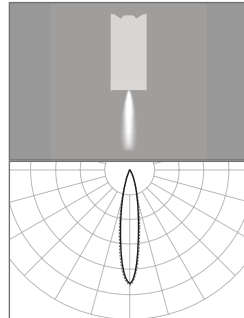
Beam Pattern Availability

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

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	**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	3,000	**Lumens**	3,000	**Lumens**	3,000	**Lumens**	3,000	**Lumens**	3,000
lm/m	2,450	**lm/m**	2,470	**lm/m**	2,560	**lm/m**	2,515	**lm/m**	2,495
Watts	36	**Watts**	21	**Watts**	25	**Watts**	23	**Watts**	23
W/m	29.5	**W/m**	17.5	**W/m**	20.8	**W/m**	19.2	**W/m**	19.2
LPW	83	**LPW**	141	**LPW**	123	**LPW**	131	**LPW**	130

DM70	DN40	DCO45	DCO35	DCO25
Medium 70°	Narrow 40°	Cavity Optic 45°	Cavity Optic 35°	Cavity Optic 25°

	DM70		DN40		DCO45		DCO35		DCO25
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	3,000	**Lumens**	3,000	**Lumens**	3,000	**Lumens**	3,000	**Lumens**	3,000
lm/m	2,490	**lm/m**	2,520	**lm/m**	2,525	**lm/m**	2,525	**lm/m**	2,525
Watts	20	**Watts**	20	**Watts**	37	**Watts**	37	**Watts**	37
W/m	16.7	**W/m**	16.7	**W/m**	30.8	**W/m**	30.8	**W/m**	30.8
LPW	149	**LPW**	151	**LPW**	82	**LPW**	82	**LPW**	82

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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