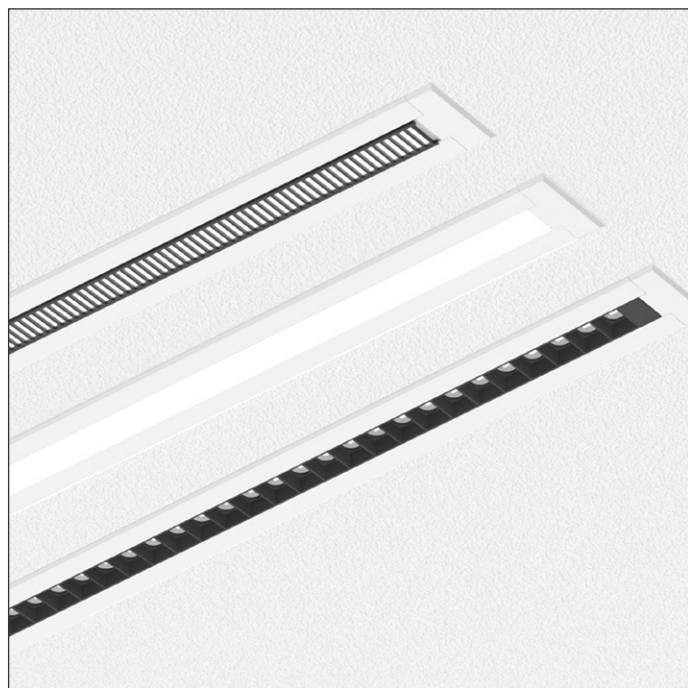


# LUMAERA MiniSQ Recessed



34mm Compact Linear LED Recessed Mount



Fixture Mounted or 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

FIXTURE ORDERING

Project Name

Fixture Type

1) FIXTURE TYPE & MOUNTING DESIGN

PRODUCT	LENGTH		FINISH	OPTIC (Direct Only)	
MNSQ34-R					
34mm Compact Linear LED Recessed 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#	OFL OC OBWH OBBK Flush Lens Cavity Optics Baffle, White Baffle, 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	DA5025	Asymmetric 50°	3280	3,280 lm/m
HD95	High-Def. 95 CRI	4000K	4000K		at 25° Tilt		
SUN	Full SunLike	5000K	5000K	DA4005	Asymmetric 40°		
SBIOS	Static BIOS	3022D	3000K to 2200K		at 5° Tilt		
DBIOS	Dynamic BIOS		Dim-to-Warm	DM55	Medium 55°		
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 & CONTROLS

LINE VOLTAGE (AC)		EMERGENCY BACKUP		REMOTE DRIVER BOX <sup>1</sup>	
UNV 347	120/277V 347V	NN EMC EMB	Not Needed Emergency Circuit Emergency Battery (Remote)	NN RLDB2 <sup>2</sup> RX2D2 <sup>2</sup> RX3D2 <sup>2</sup> RX5D2 <sup>2</sup>	Not Needed Remote Linear Driver Box (driver included by default) Optional Remote Xbox2 Driver, Up to 2 Drivers Optional Remote Xbox3 Driver, Up to 3 Drivers Optional Remote Xbox5 Driver, Up to 5 Drivers

4) FIXTURE TYPE & MOUNTING DESIGN

DRIVER LOCATION		MOUNTING TYPE		POWER CORD	
FMD MD	Fixture Mounted Driver Remote Driver	DK	Drywall Kit	S06WH S06BK	0.6m White Cable Kit 0.6m Black Cable Kit

<sup>1</sup>Remote distance is dependent on driver type, up to 30.5 m.  
<sup>2</sup>Creates a clean and organized power solution for multiple fixture installations.  
<sup>3</sup>The control system and driver must be compatible.

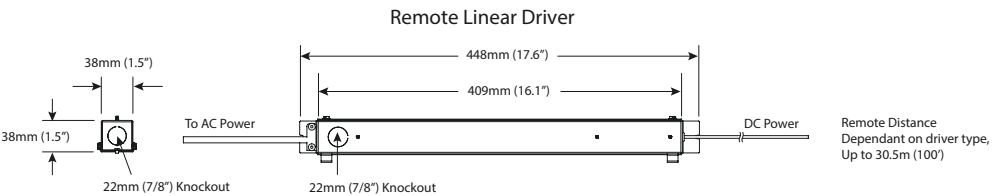
NOTES

Project Name

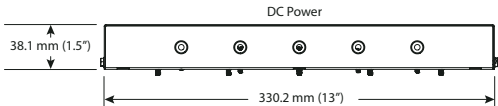
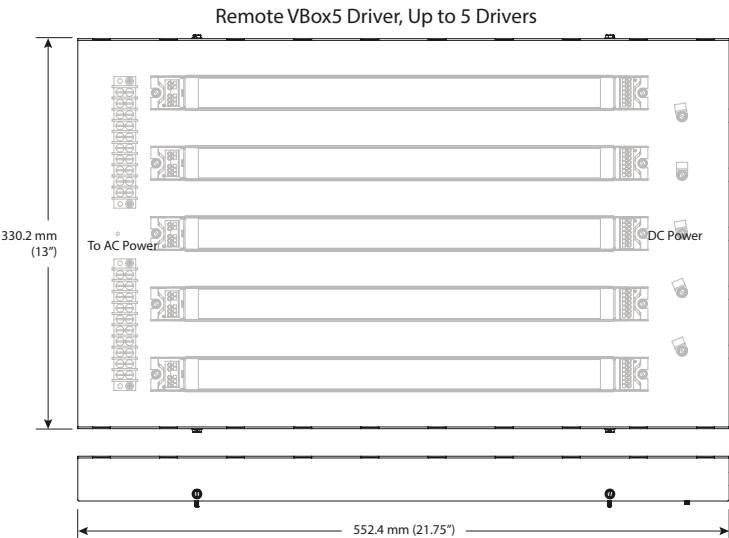
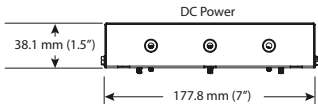
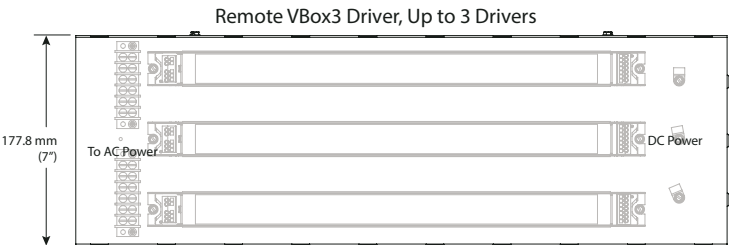
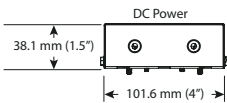
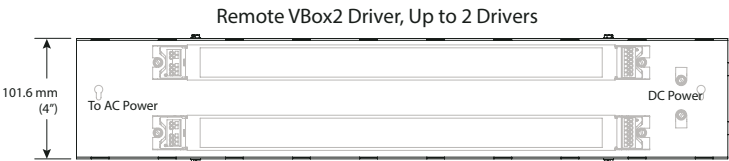
Fixture Type

REMOTE DRIVER BOX

Dimensions

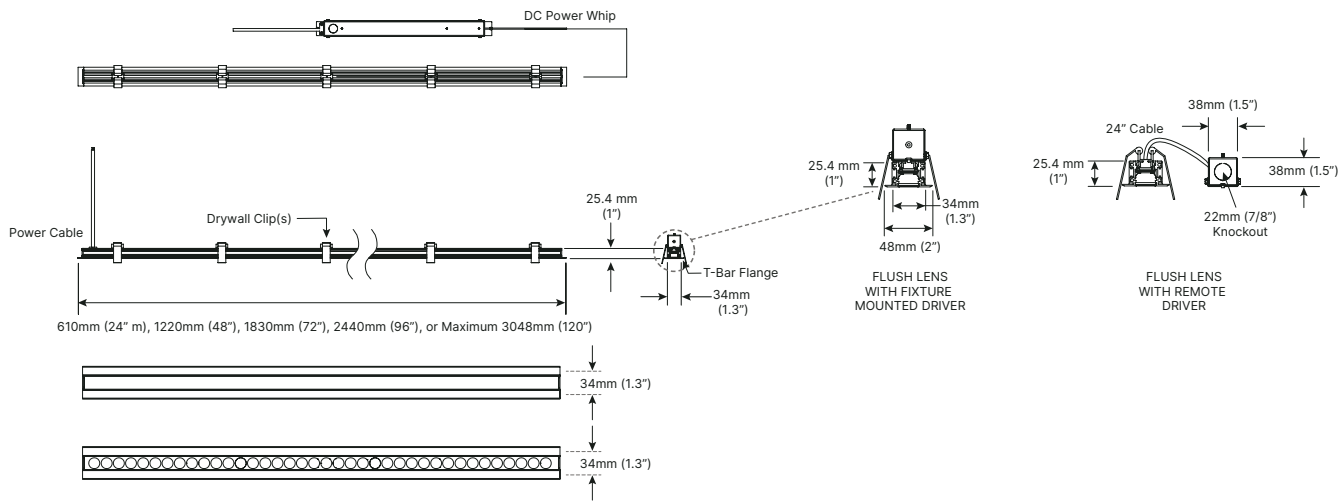


Remote Distance  
Dependant on driver type,  
Up to 30.5m (100')



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

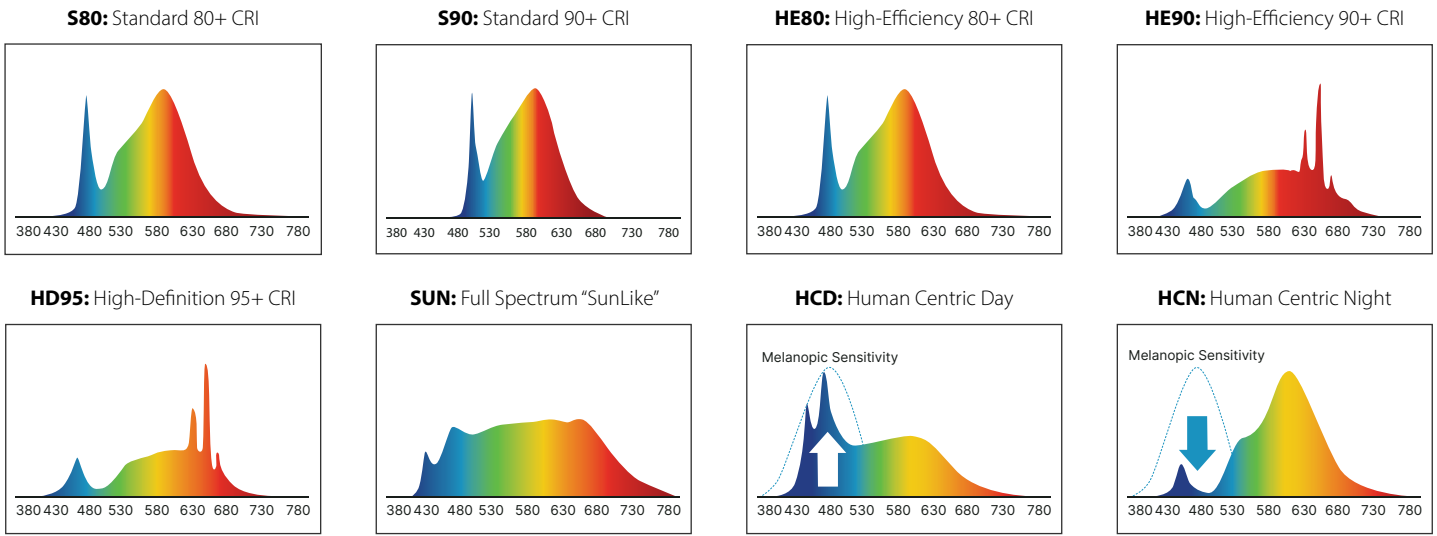
**Lens Options** Flush, Cavity Optics and Baffle

**Lens Material** Acrylic (PMMA)

Voltage

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

LED SELECTION GUIDE



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)

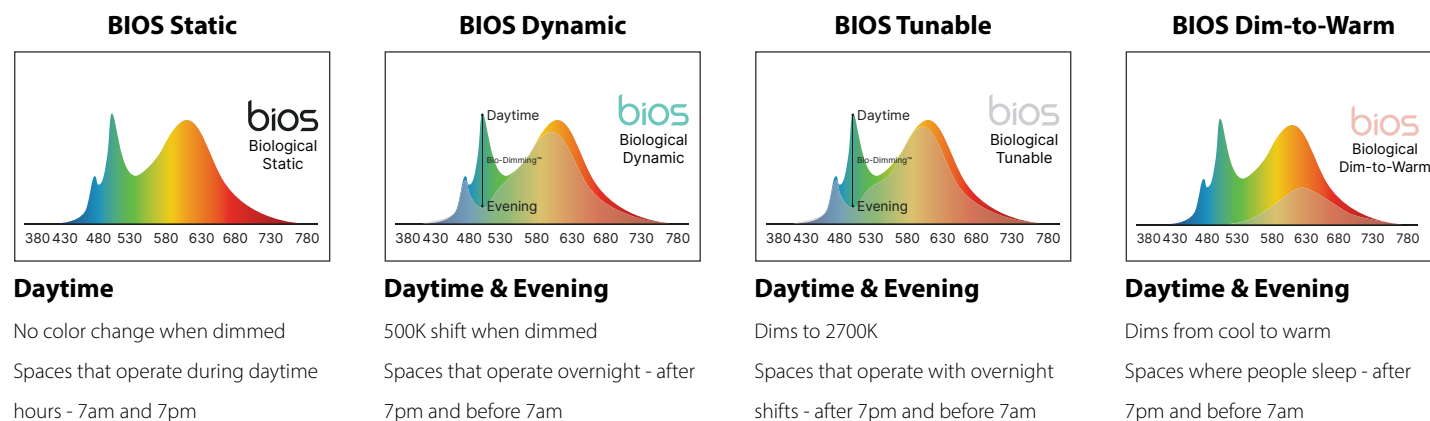
CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	-	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	-	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	-	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN	-	0.90	0.92	1.00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

### Voltage

LED Driver	Factory Selected, 36–39V Constant Current
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### Emergency Backup

Backup Types	Emergency Circuit, Emergency Battery (Remote), and other emergency backups are available
Wiring	Typically the Emergency Backup is wired to 1.2m sections
Power	10W
Illumination Time	90 Minutes

### Partners

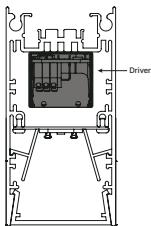


### Control Systems (Remote Drivers - Sold Separately)

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

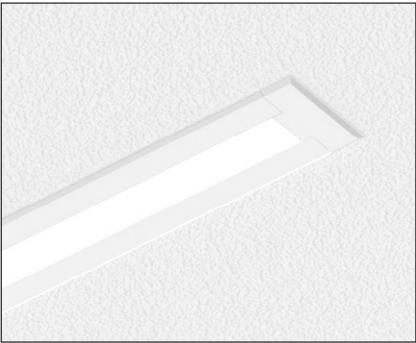
Remote Driver Boxes (Optional)	To create a clean and organized power solution for multiple fixture installations we have our VBox solution. Reach out to your Vexica Sales Representative for more information.
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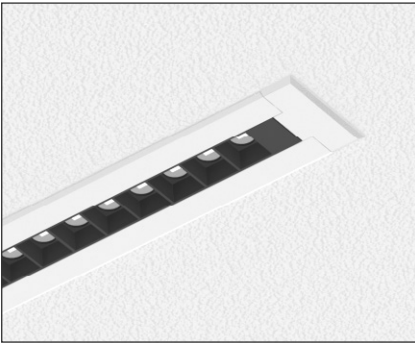
Fixture Mounted Drivers mount on top of the fixture. They provide 0-10V, DALI, DMX, and TRIAC dimming. Also compatible with Cooper and other common building control systems, including PoE and wireless.



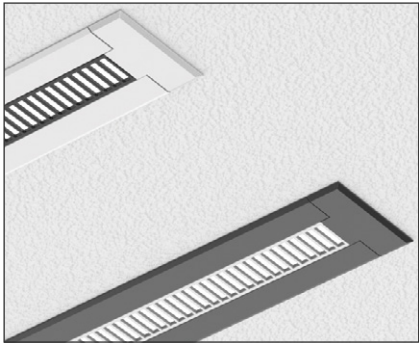
## OPTICS OPTIONS



Flush Lens



Cavity Optics



Baffles (Black or White)

## FIXTURE MOUNTING & CONNECTIONS

### Mounting Type

#### Drywall Mount

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

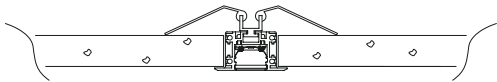
### Power Cords

#### Cable Kit

0.6m, White and Black

### Mounting Options

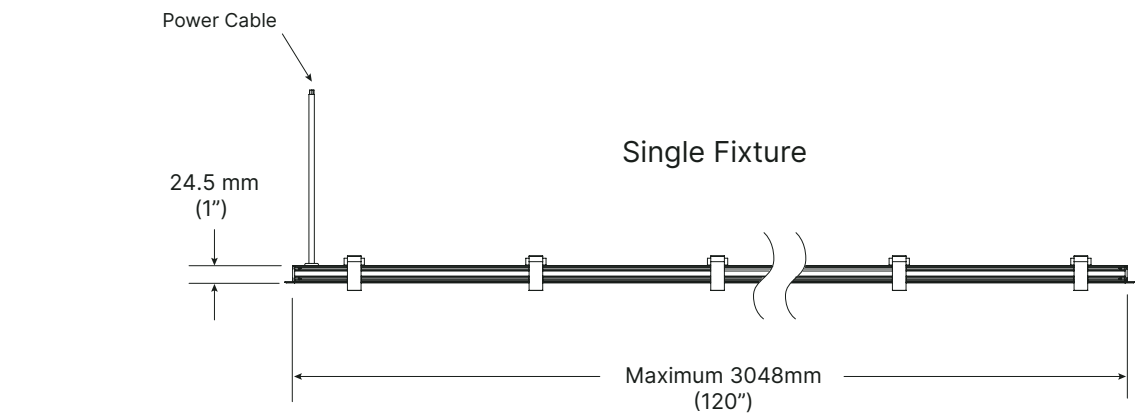
#### DK - Drywall Kit



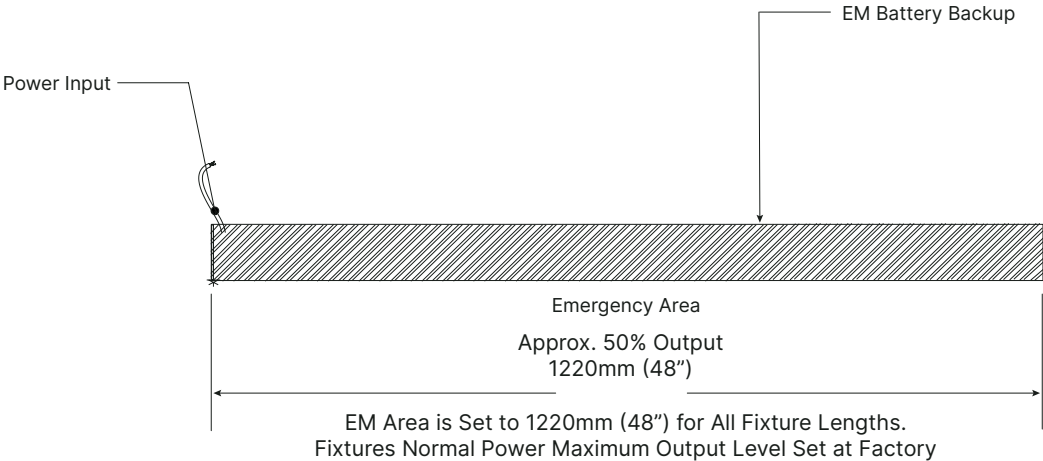


Standard Lengths & Continuous Runs

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.



Emergency Battery Backup



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

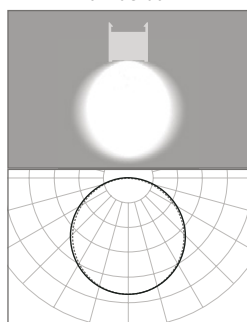
### Beam Pattern Availability

OPTIC	BEAM PATTERN									
	DLAM	DBW60	DDA70	DA5025	DA4005	DM55	DN40	DCO45	DCO35	DCO25
Flush Lens	*	*	*	*	*	*	*			
Baffle	*	*	*	*	*	*	*			
Cavity Optics (CO)								*	*	*

### Direct Photometrics Static White Light

#### DLAM

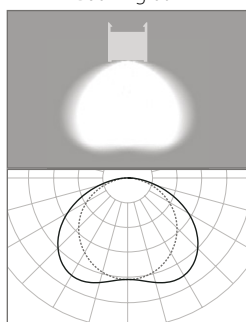
Lambertian



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

#### DBW60

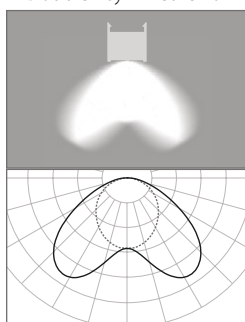
Batwing 60°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,441  
**Watts** 24  
**W/m** 19.8  
**LPW** 123

#### DDA70

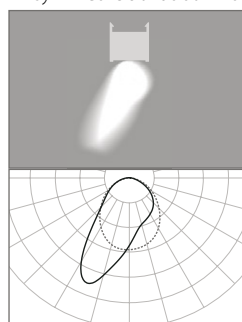
Double Asymmetric 70°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,493  
**Watts** 25  
**W/m** 20.3  
**LPW** 123

#### DA5025

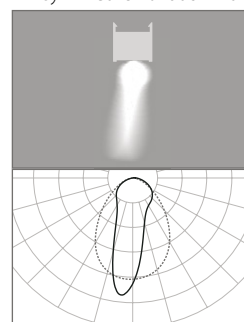
Asymmetric 50° at 60° Tilt



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,457  
**Watts** 23  
**W/m** 18.9  
**LPW** 130

#### DA4005

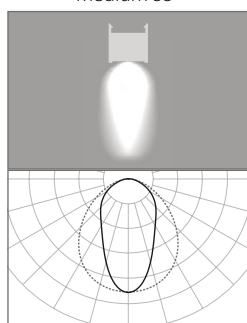
Asymmetric 40° at 5° Tilt



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,421  
**Watts** 23  
**W/m** 18.9  
**LPW** 128

#### DM55

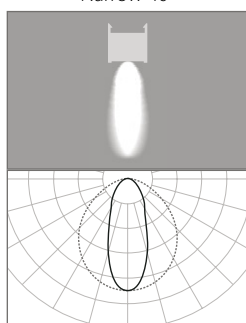
Medium 55°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,434  
**Watts** 23  
**W/m** 18.9  
**LPW** 129

#### DN40

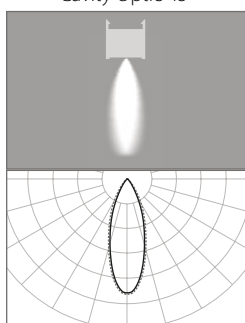
Narrow 40°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,447  
**Watts** 26  
**W/m** 21.1  
**LPW** 116

#### DCO45

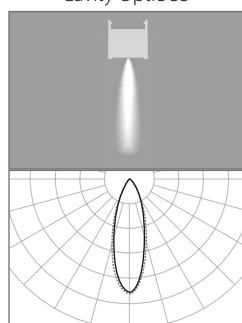
Cavity Optic 45°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,461  
**Watts** 37  
**W/m** 30  
**LPW** 82

#### DCO35

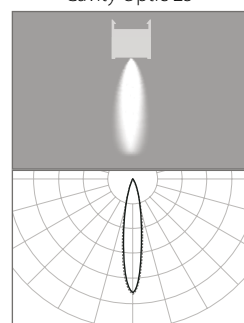
Cavity Optic 35°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,457  
**Watts** 37  
**W/m** 30  
**LPW** 82

#### DCO25

Cavity Optic 25°



**Length** 1220mm  
**LED** HE80  
**CRI/CCT** 80+/3500K  
**Lumens** 3,000  
**lm/m** 2,461  
**Watts** 37  
**W/m** 30  
**LPW** 82

## 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 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.



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