

LUMAERA MiniSQ Wall



24mm Compact Linear LED Wall Mount



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	END CAP	OPTIC (Direct Only)
MNSQ24-W				
24mm Compact Linear LED Wall Mount	610mm 610mm 1220mm 1220mm 1830mm 1830mm 2440mm 2440mm 3048mm 3048mm	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 OC Cavity Optics OBWH Baffle, White OB BK Baffle, Black

2) LED LIGHT ENGINE

CRI	CCT	DIRECT BEAM PATTERN	DIRECT OUTPUT	INDIRECT BEAM PATTERN	INDIRECT OUTPUT
S80 Std. 80 CRI S90 Std. 90 CRI HE80 High-Eff. 80 CRI HE90 High-Eff. 90 CRI HD95 High-Def. 95 CRI SUN Full SunLike SBIOS Static BIOS DBIOS Dynamic BIOS TBIOS Tunable White BIOS	2200K 2200K 2700K 2700K 3000K 3000K 3500K 3500K 4000K 4000K 5000K 5000K 3022D 3000K to 2200K Dim-to-Warm 3527D 3500K to 2700K Dim-to-Warm	DLAM Lambertian DBW60 Batwing 60° DDA70 Double Asymmetric 70° DA5025 Asymmetric 50° at 25° Tilt DA4005 Asymmetric 40° at 5° Tilt DM55 Medium 55° DN40 Narrow 40° DC045 Cavity Optics 45° DC035 Cavity Optics 35° DC025 Cavity Optics 25°	1148 1148 lm/m 1640 1640 lm/m 2460 2,460 lm/m 3280 3,280 lm/m	NN Not Needed ILAM Lambertian IBW120 Batwing 120° IFT150 FlatTop 150° IA6040 Asymmetric 60° at 40° Tilt IA4560 Asymmetric 45° at 60° Tilt	NN Not Needed 1148 1148 lm/m 1640 1640 lm/m 2460 2,460 lm/m 3280 3,280 lm/m

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)	EMERGENCY BACKUP	REMOTE DRIVER BOX ¹
UNV 120/277V 347 347V	NN Not Needed EMC Emergency Circuit EMB Emergency Battery (Remote)	NN Not Needed RLDB2² Remote Linear Driver Box (driver included by default) RX2D2² Optional Remote Xbox2 Driver, Up to 2 Drivers RX3D2² Optional Remote Xbox3 Driver, Up to 3 Drivers RX5D2² Optional Remote Xbox5 Driver, Up to 5 Drivers

4) FIXTURE TYPE & MOUNTING DESIGN

MOUNTING TYPE	MOUNTING KIT
WM Wall Mount	WM71WH 71mm White Stainless Steel Wall Mounting Plate WM71BK 71mm Black Stainless Steel Wall Mounting Plate

¹Remote distance is dependent on driver type, up to 30.5 m.

²Creates a clean and organized power solution for multiple fixture installations.

³The control system and driver must be compatible.

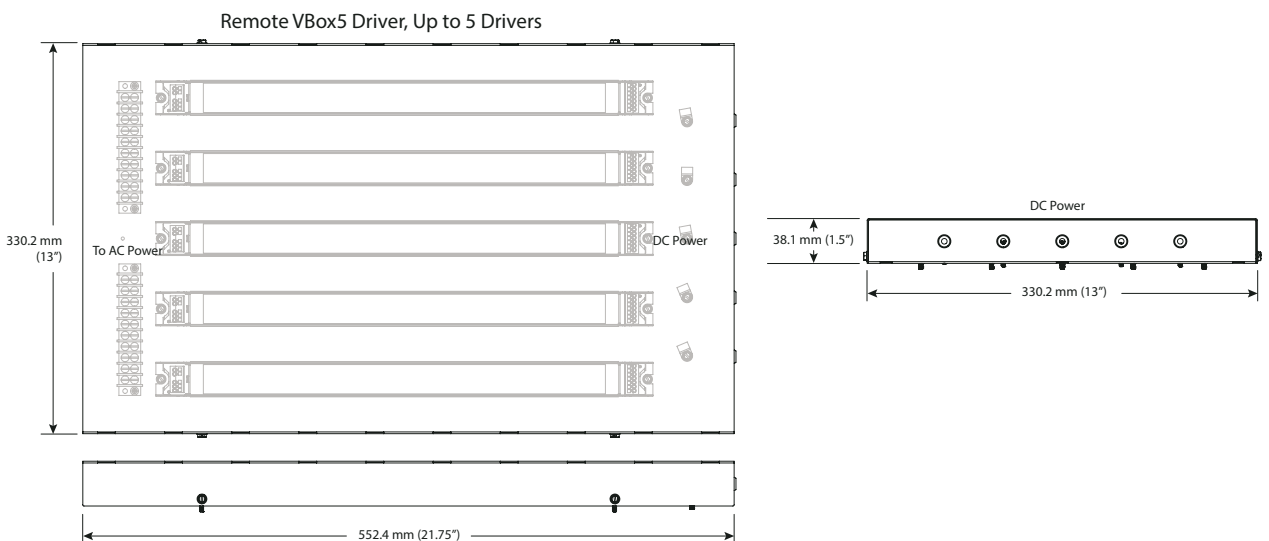
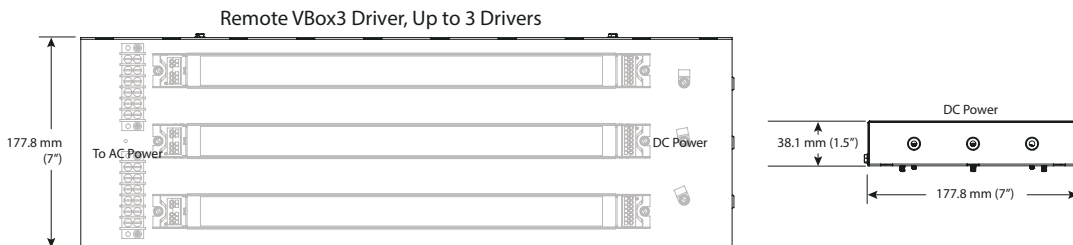
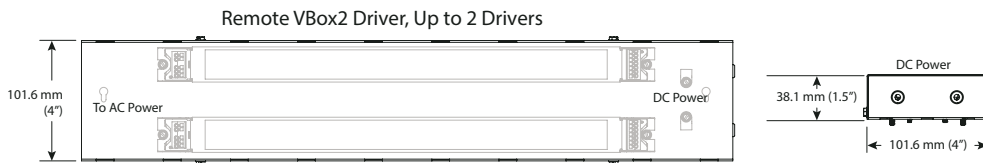
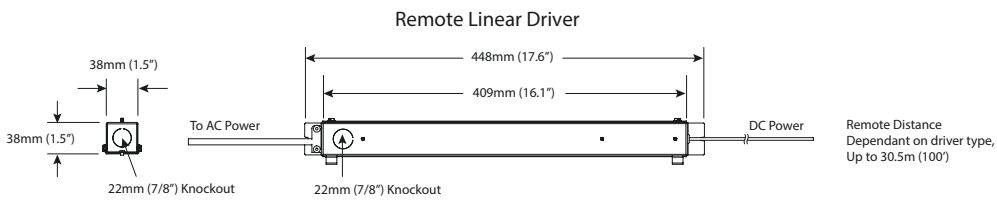
NOTES

Project Name

Fixture Type

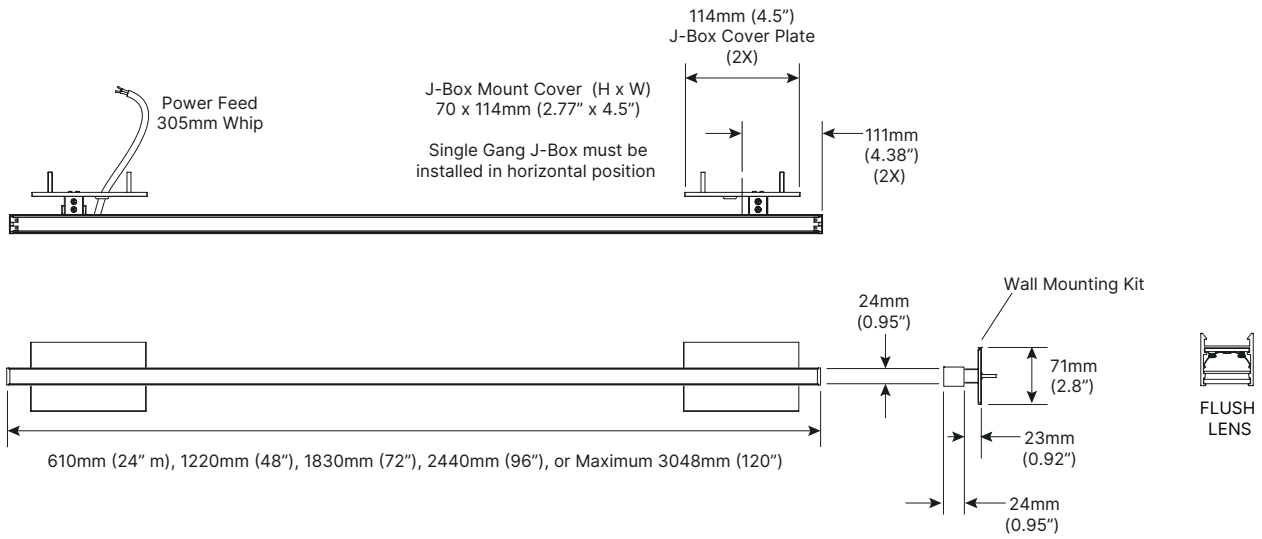
REMOTE DRIVER BOX

Dimensions



FIXTURE DESIGN

Dimensions



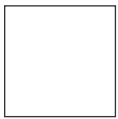
Length

Length Options

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

Finish

Housing Colours (Matt Finish)



White (RAL9003)



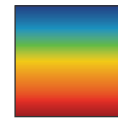
Black (RAL9005)



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, Nano Cavity Optics, and Nano Baffle

Lens Material

Acrylic (PMMA)

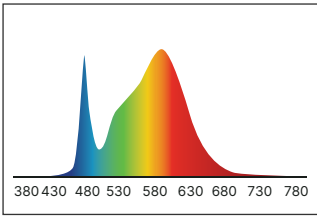
Voltage

Fixture Voltage (AC)

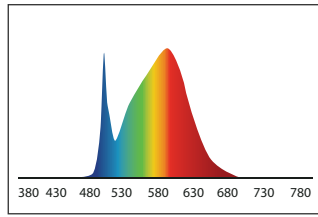
120-277 VAC and 347 VAC, 50/60Hz

LED SELECTION GUIDE

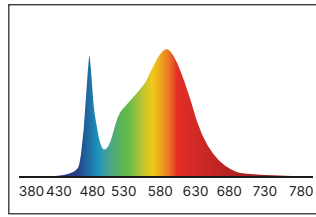
S80: Standard 80+ CRI



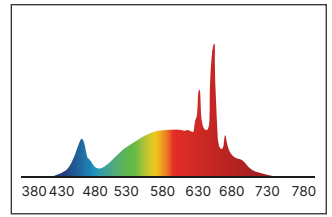
S90: Standard 90+ CRI



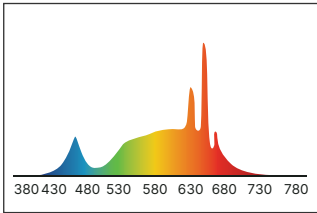
HE80: High-Efficiency 80+ CRI



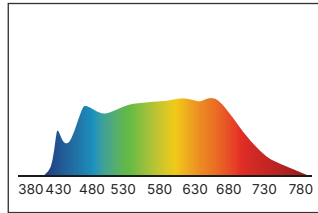
HE90: High-Efficiency 90+ CRI



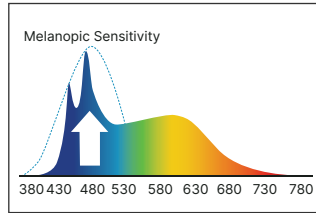
HD95: High-Definition 95+ CRI



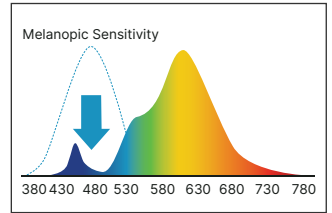
SUN: Full Spectrum "SunLike"



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)

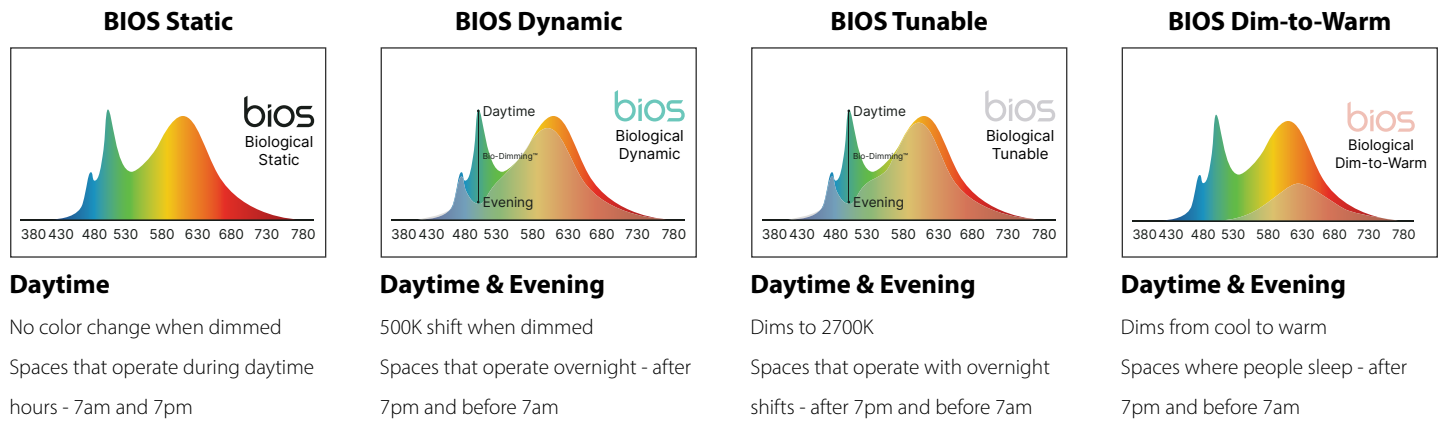
CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	-	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	-	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	-	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	-	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN	-	0.90	0.92	1.00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

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 (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

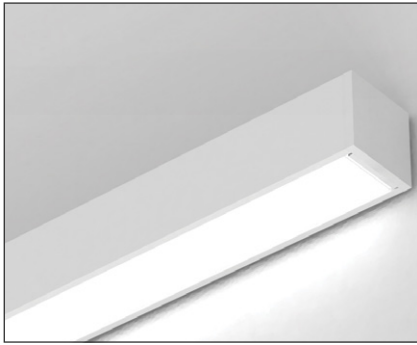
Cooper Compatible driver

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.

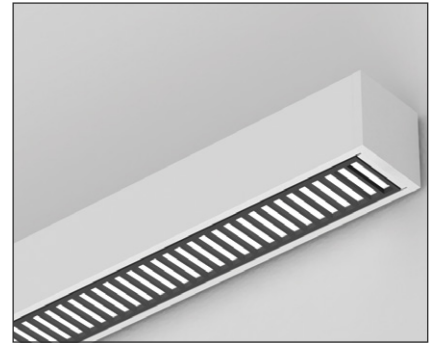
OPTICS OPTIONS



Flush Lens



Cavity Optics



Baffles (Black or White)

FIXTURE MOUNTING & CONNECTIONS

Mounting Type

Wall Mount

Installs on to 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

71mm Stainless Steel Wall Mounting Plate, White & Black

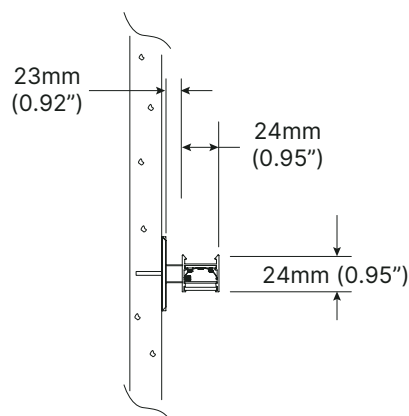
Power Feed

Power Whip

305mm

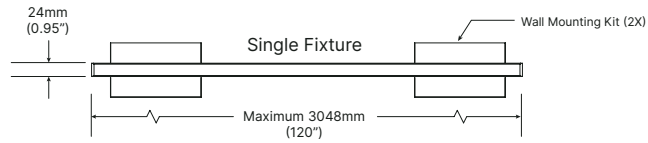
Mounting Option

WM - Wall Mount



Standard Lengths & Continuous Runs

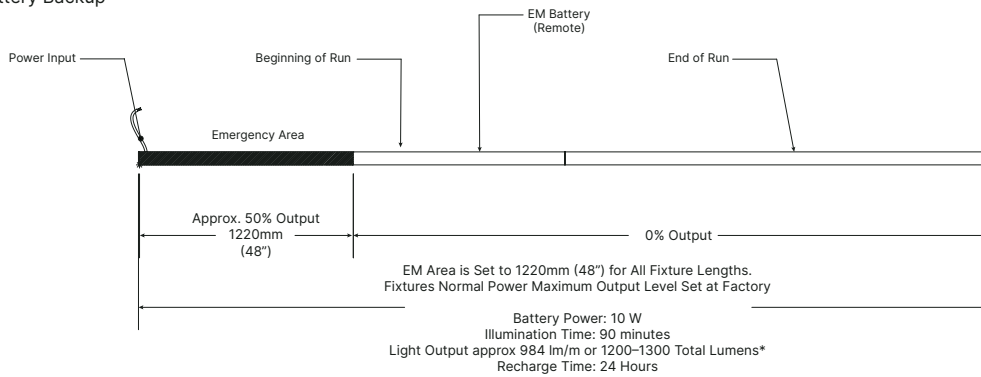
Maximum length of one fixture is 3048mm. Longer runs can be produced by joining sections. Customer approval of shop drawings is required prior to build of any non-standard length order.



Standard Continuous Run



Emergency Battery Backup



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

BEAM PATTERN SELECTION GUIDE

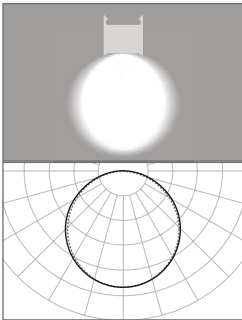
Beam Pattern Availability

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

Direct Photometrics Static White Light

DLAM

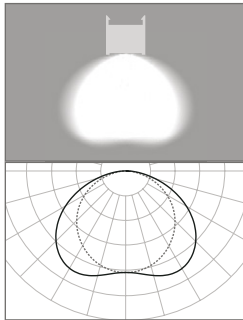
Lambertian



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

DBW60

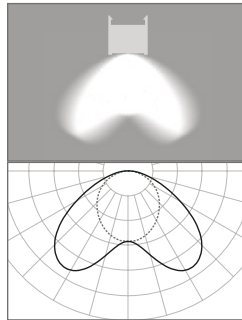
Batwing 60°



Length 1220mm
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/m 2,440
Watts 24
W/m 19.8
LPW 123

DDA70

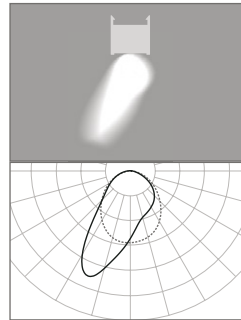
Double Asymmetric 70°



Length 1220mm
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/m 2,558
Watts 25
W/m 20.8
LPW 123

DA5025

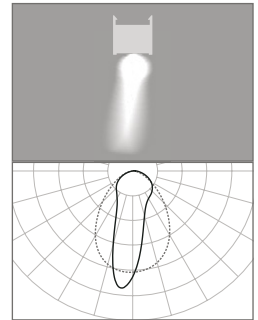
Asymmetric 50° at 60° Tilt



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

DA4005

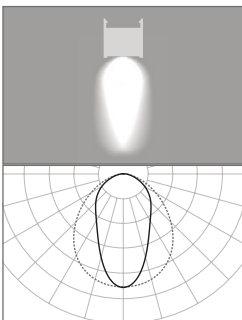
Asymmetric 40° at 5° Tilt



Length 1220mm
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/m 2,509
Watts 23
W/m 19.6
LPW 128

DM55

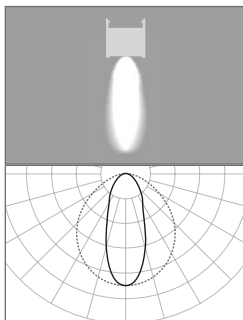
Medium 55°



Length 1220mm
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/m 2,460
Watts 23
W/m 19.1
LPW 129

DN40

Narrow 40°

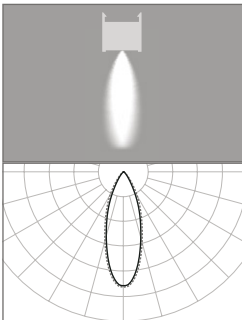


Length 1220mm
LED HE80
CRI/CCT 80+/3500K
Lumens 3,000
lm/m 2,440
Watts 26
W/m 21
LPW 116

Direct Photometrics Static White Light (cont.)

DCO45

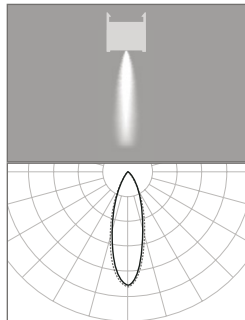
Cavity Optic 45°



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	3,000
lm/m	2,460
Watts	37
W/m	30
LPW	82

DCO35

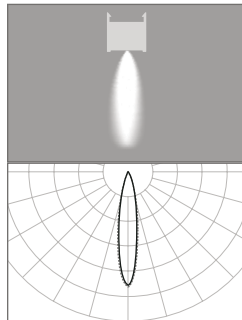
Cavity Optic 35°



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	3,000
lm/m	2,457
Watts	37
W/m	30
LPW	82

DCO25

Cavity Optic 25°

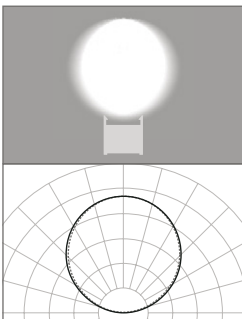


Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	3,000
lm/m	2,460
Watts	37
W/m	30
LPW	82

Indirect Photometrics Static White Light

ILAM

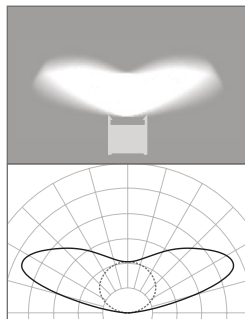
Lambertian



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	4,000
lm/m	3,280
Watts	28
W/m	23
LPW	150

IBW120

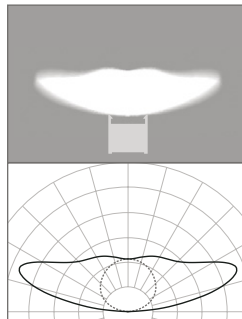
Batwing 120°



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	4,000
lm/m	3,286
Watts	25
W/m	20.7
LPW	159

IFT150

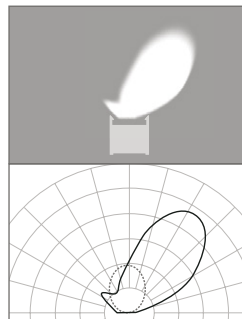
Flat Top 150°



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	4,000
lm/m	3,293
Watts	26
W/m	21.3
LPW	155

IA6040

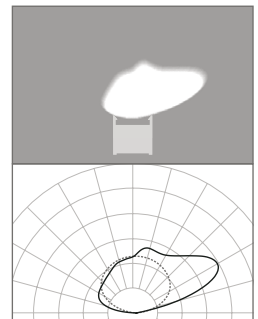
Asymmetric 60° at 40° Tilt°



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	4,000
lm/m	3,280
Watts	19
W/m	15.6
LPW	164

IA4560

Asymmetric 45° at 60° Tilt



Length	1220mm
LED	HE80
CRI/CCT	80+/3550K
Lumens	4,000
lm/m	3,280
Watts	19
W/m	15.6
LPW	164

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



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