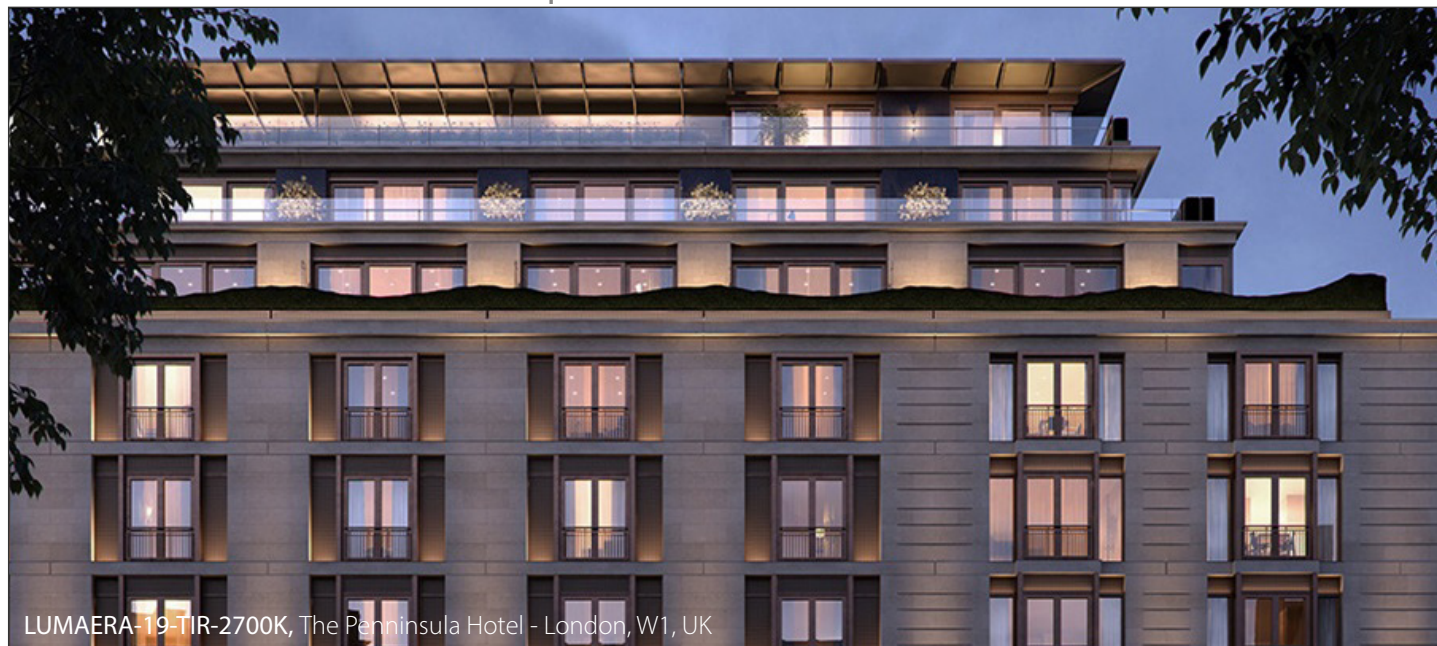


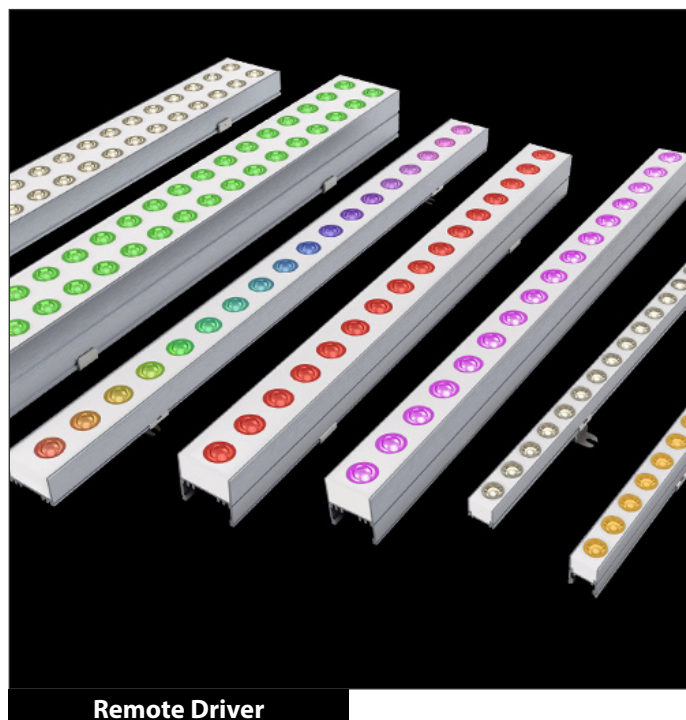
# LUMAERA TIR



Resin Encapsulated Linear LED Luminaires with TIR Grazing  
Optics in a Choice of Static and Dynamic Colour Options  
19mm, 37mm, 44mm & 77mm Widths | Outdoor & Indoor Use



LUMAERA-19-TIR-2700K, The Peninsula Hotel - London, W1, UK



Remote Driver



## Features & Benefits

### Continuous Linear Light

Flush and 'H' profile options allow for side or bottom entry cable management, and end-to-end mounting for a continuous linear effect.

### Wide Range of LED Selections

Static White, RGB, RGB Dynamic & RGBW options are available at CRI 80, 90 & 95. For availability per model, please see the relevant section of this guide.

### Resin Encapsulation Technology

Luminaires encapsulated in polyurethane resin to ensure environmental robustness and longevity.

### TIR Grazing Optics

A selection of beam angles are available.

### Choose Your Length

Available in a wide range of lengths (105mm - 1605mm) and up to 9.6m of lumination from one driver.

### Customisable

Speak to your Vexica representative about any specific requests you have for your project.

### Compliance

UKCA, CE, IP67

### 5-Year Warranty

Standard 5-year warranty, L90 (Static White) @ ~50,000 hours.

LIGHT OUTPUT INFORMATION

Efficacy (lm/W)

| Fixture Type | Power Output | Static White |       |       |       |       | RGB <sup>1</sup> (inc RGB Dynamic) |     |       |      | RGBW <sup>2</sup> |       |      |       |
|--------------|--------------|--------------|-------|-------|-------|-------|------------------------------------|-----|-------|------|-------------------|-------|------|-------|
|              |              | 2200K        | 2700K | 3000K | 3500K | 4000K | Max (White)                        | Red | Green | Blue | Red               | Green | Blue | 3000K |
| Lumaera 19   | 6 W/m        | 116          | 119   | 119   | 119   | 126   | -                                  | -   | -     | -    | -                 | -     | -    | -     |
|              | 10 W/m       | 116          | 119   | 119   | 119   | 126   | -                                  | -   | -     | -    | -                 | -     | -    | -     |
|              | 15 W/m       | 116          | 119   | 119   | 119   | 126   | -                                  | -   | -     | -    | -                 | -     | -    | -     |
| Lumaera 37   | 24 W/m       | 101          | 103   | 105   | 105   | 111   | 32                                 | 32  | 60    | 11   | -                 | -     | -    | -     |
| Lumaera 44   | 24 W/m       | 101          | 103   | 105   | 105   | 111   | 32                                 | 32  | 60    | 11   | 41                | 90    | 32   | 74    |
| Lumaera 77   | 50 W/m       | 101          | 103   | 105   | 105   | 111   | 32                                 | 32  | 60    | 11   | 41                | 90    | 32   | 74    |

Luminaire Lumen Output (lm/m)

| Fixture Type | Power Output | Static White |       |       |       |       | RGB <sup>1</sup> (inc RGB Dynamic) |     |       |      | RGBW <sup>2</sup> |       |      |       |
|--------------|--------------|--------------|-------|-------|-------|-------|------------------------------------|-----|-------|------|-------------------|-------|------|-------|
|              |              | 2200K        | 2700K | 3000K | 3500K | 4000K | Max (White)                        | Red | Green | Blue | Red               | Green | Blue | 3000K |
| Lumaera 19   | 6 W/m        | 696          | 714   | 714   | 714   | 756   | -                                  | -   | -     | -    | -                 | -     | -    | -     |
|              | 10 W/m       | 1160         | 1190  | 1190  | 1190  | 1260  | -                                  | -   | -     | -    | -                 | -     | -    | -     |
|              | 15 W/m       | 1740         | 1785  | 1785  | 1785  | 1890  | -                                  | -   | -     | -    | -                 | -     | -    | -     |
| Lumaera 37   | 24 W/m       | 2424         | 2472  | 2520  | 2520  | 2664  | 768                                | 256 | 480   | 88   | -                 | -     | -    | -     |
| Lumaera 44   | 24 W/m       | 2424         | 2472  | 2520  | 2520  | 2664  | 768                                | 256 | 480   | 88   | 244               | 538   | 192  | 442   |
| Lumaera 77   | 50 W/m       | 5050         | 5150  | 5250  | 5250  | 5550  | 1600                               | 533 | 1000  | 183  | 512               | 1125  | 400  | 925   |

The values above are specified at CRI = 80

For CRI = 90 reduce by 10%; for CRI = 95 reduce by 20%

If the data that you require is missing, please contact your Vexica representative

<sup>1</sup> RGB consists of 3 channels (Red, Green & Blue), each capable of outputting 5W/m. The 'Max (White)' value is taken when all channels are at 100% and the fixture is drawing the maximum total luminaire output of 15W/m.

<sup>2</sup> RGBW consists of 4 channels each capable of 25% of the maximum total luminaire power output.

Vexica run regular development cycles, continuously optimising and balancing product specifications to best suit our customers. All information therefore, is intended as a guide and specifications may change on occasion without notice or announcement. Technical data is measured under controlled conditions, expected performance is within +/- 10% of advertised figures. Luminaire output stated is actual value from the luminaire itself. Information provided above is intended as a description of the product and shall not be used in the form of any contract.

ELECTRICAL INFORMATION

|                      |                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Power Options        | 6W/m, 10W/m, 15W/m (Lumaera 19 - Static White Only)<br>24W/m (Lumaera 37 & 44 - All Options)<br>50W/m (Lumaera 77 - All Options)          |
| Input Voltage        | 24 VDC (23V Min, 25V Max)                                                                                                                 |
| Dimmable             | Yes                                                                                                                                       |
| Connection Type      | JST JWPF IP67 (Lumaera 19 - All options, Lumaera 37, 44 & 77 - RGBW Only)<br>SSL 1.2 IP68 (Lumaera 37, 44 & 77 - All options except RGBW) |
| LED Binning          | 3 SDCM (White Only)                                                                                                                       |
| Maximum Chain Length | 4.8m (Lumaera 19) - 6W/m Version can run to 9.6m<br>5.0m (Lumaera 37 & 44)<br>3.0m (Lumaera 77)                                           |

PHYSICAL & ENVIRONMENTAL INFORMATION

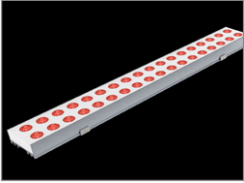
|                               |                                                                                     |                                                                                      |            |            |        |
|-------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------|------------|--------|
| Housing Colour                |  |  |            |            |        |
|                               | Anodised Aluminium                                                                  | Contact Us for<br>Special Projects                                                   |            |            |        |
| Finish                        | Extrusion                                                                           | Silver Anodised Aluminium                                                            |            |            |        |
|                               | Resin                                                                               | Opal Polyurethane                                                                    |            |            |        |
|                               | Optics                                                                              | Clear Acrylic (PMMA)                                                                 |            |            |        |
| Ambient Operating Temperature | -10°C to +50°C                                                                      |                                                                                      |            |            |        |
| Ambient Storage Temperature   | -30°C to +85°C                                                                      |                                                                                      |            |            |        |
| IP Rating                     | IP67                                                                                |                                                                                      |            |            |        |
| IK Rating                     | IK05                                                                                |                                                                                      |            |            |        |
| Weight (per Linear Meter)     | Lumaera 19                                                                          | Lumaera 37                                                                           | Lumaera 44 | Lumaera 77 |        |
|                               | Static White                                                                        | 0.45kg                                                                               | 0.87kg     | 1.03kg     | 1.81kg |
|                               | Tunable & Dynamic                                                                   | 0.56kg                                                                               | 1.10kg     | 1.30kg     | 2.27kg |

LED CCT/COLOUR OPTIONS

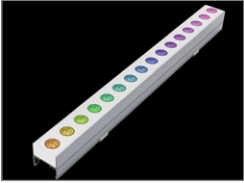
**STATIC WHITE**  
2200K, 2700K, 3000K, 3500K, 4000K



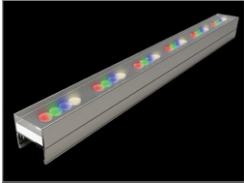
**TUNABLE COLOUR<sup>a</sup>**  
RGB LED Colour Mixing  
(NOT Lumaera 19)



**DYNAMIC COLOUR<sup>b</sup>**  
RGB LED Dynamic Pixels  
(Lumaera 44 & 77 Only\*)



**TUNABLE COLOUR + 3000K<sup>c</sup>**  
RGBW LED Colour Mixing  
(Lumaera 44 & 77 Only)



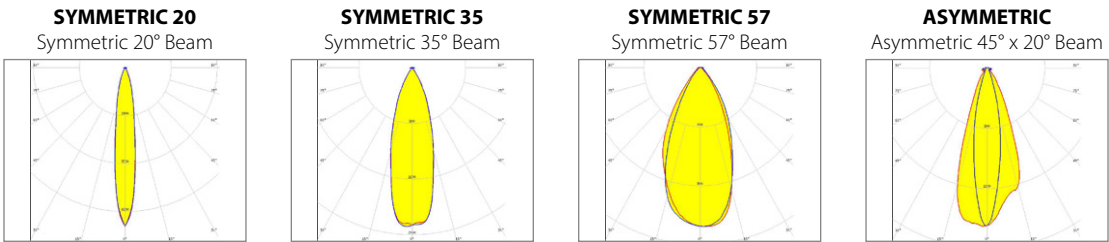
\*RGB Dynamic is only available for Lumaera 44 & 77 with a Symmetric 33° TIR optic.

LENGTH (L) OPTIONS

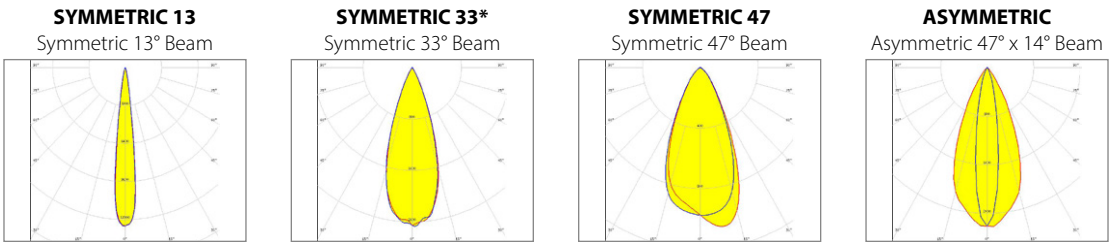
| Product                    | Optic     | Minimum Length (mm) | Maximum Length (mm) | Length Increments (mm) | Length Options (mm)                                             |
|----------------------------|-----------|---------------------|---------------------|------------------------|-----------------------------------------------------------------|
| Lumaera 19                 | TIR Optic | 130                 | 1505                | 125                    | 130, 255, 380, 505, 630, 755, 880, 1005, 1130, 1255, 1380, 1505 |
| Lumaera 37 & 44 (Not RGBW) | TIR Optic | 205                 | 1605                | 200                    | 205, 405, 605, 805, 1005, 1205, 1405, 1605                      |
| Lumaera 44 (RGBW Only)     | TIR Optic | 505                 | 1505                | 500                    | 505, 1005, 1505                                                 |
| Lumaera 77                 | TIR Optic | 305                 | 1505                | 300                    | 305, 605, 905, 1205, 1505                                       |

BEAM SHAPE SELECTION

Lumaera 19 (+ Lumaera 44 & 77 RGBW Only)



Lumaera 37, 44 (Not RGBW) & Lumaera 77 (Not RGBW)



MOUNTING OPTIONS

**Lumaera 19**

**ADJUSTABLE BRACKET**  
Adjustable Angle, Rear Attachment



ORDER CODE: 018705

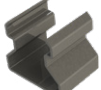
**FLUSH CLIP**  
Fixed Angle, Rear Attachment



ORDER CODE: 008189

**Lumaera 37**

**EXTENDED BRACKET**  
Fixed Angle, Rear Attachment



ORDER CODE: 023667

**Lumaera 44**

**ADJUSTABLE BRACKET**  
Adjustable Angle, Rear Attachment



ORDER CODE: 018708

**FLUSH CLIP**  
Fixed Angle, Rear Attachment



ORDER CODE: 008984

**Lumaera 77**

**ADJUSTABLE BRACKET**  
Adjustable Angle, Rear Attachment



ORDER CODE: 018814

**FLUSH CLIP**  
Fixed Angle, Rear Attachment



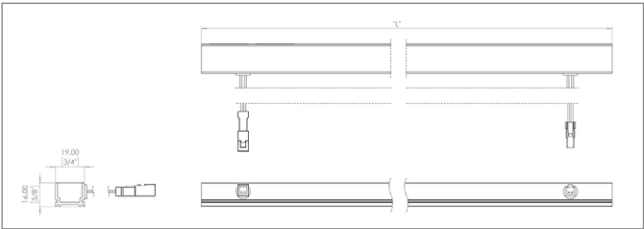
ORDER CODE: 010831

<sup>a</sup>Each colour channel represents 1/3 of the maximum luminaire power output. When all channels are at 100% the luminaire maximum output will be achieved.  
<sup>b</sup>Only available with 33° beam angle. Must be used in conjunction with a Vexica HybridDrive6 driver and PSU. Max cable length from driver to first fitting is 1m, any extensions will require additional equipment. Contact your Vexica rep for details.  
<sup>c</sup>RGBW control is split across 4 channels, with each capable of 25% of the luminaire maximum power rating. When all 4 channels are at 100% the luminaire maximum output will be achieved.

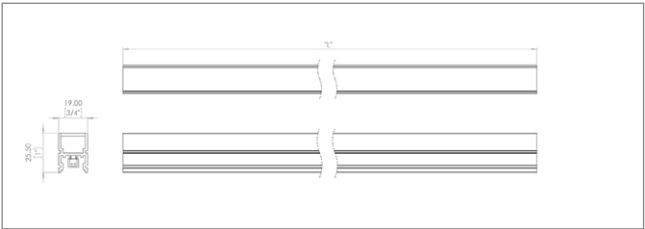
PRODUCT DIMENSIONS

Lumaera 19

Flat Profile | Side Cable Entry

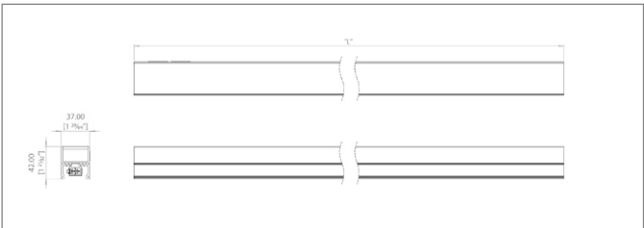


'H' Profile | Rear Cable Entry



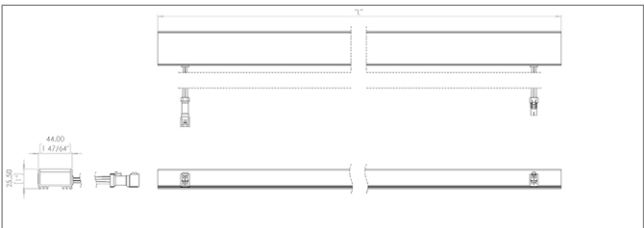
Lumaera 37

'H' Profile | Rear Cable Entry

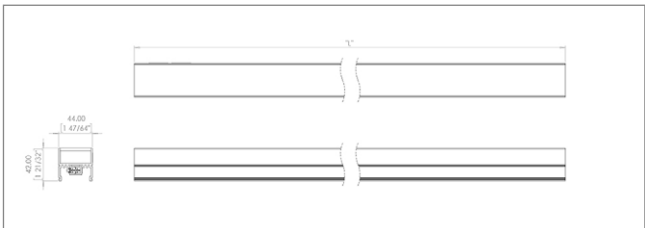


Lumaera 44

Flat Profile | Side Cable Entry

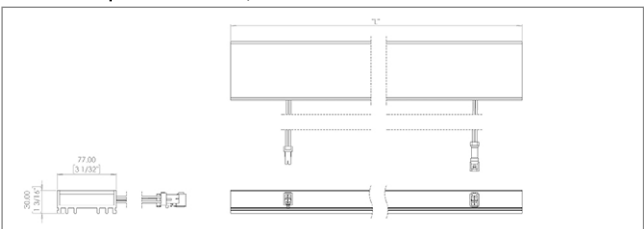


'H' Profile | Rear Cable Entry

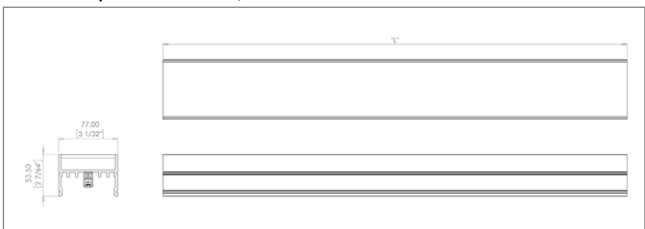


Lumaera 77

Flat Profile | Side Cable Entry

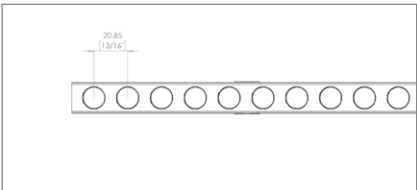


'H' Profile | Rear Cable Entry

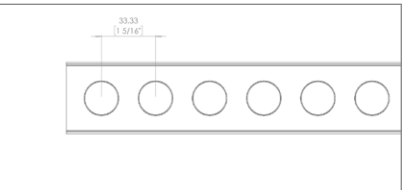


OPTIC SPACING

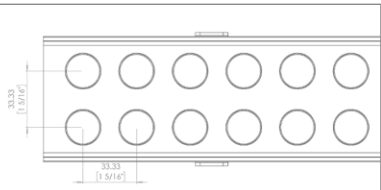
Lumaera 19  
Single Row Centred



Lumaera 37 & 44  
Single Row Centred



Lumaera 77  
Double Row Centred



PRODUCT CODE GENERATOR

Project Name

1) FIXTURE & OUTPUT TYPE

| PRODUCT                                | WIDTH |      | PROFILE | OPTIC TYPE         |                                  | CCT/LED Colour |                                                   |
|----------------------------------------|-------|------|---------|--------------------|----------------------------------|----------------|---------------------------------------------------|
| VEX-LUMAERA                            |       |      |         | TIR                |                                  |                |                                                   |
| Lumaera Linear LED Exterior Luminaire. | 19    | 19mm | -       | Flat Profile       | TIR                              | 2200K          | 2200K                                             |
|                                        | 37    | 37mm |         | (Side Cable Entry) |                                  | 2700K          | 2700K                                             |
|                                        | 44    | 44mm |         | [NOT Lumaera 37]   |                                  | 3000K          | 3000K                                             |
|                                        | 77    | 77mm | H       | H Profile          |                                  | 3500K          | 3500K                                             |
|                                        |       |      |         | (Rear Cable Entry) |                                  | 4000K          | 4000K                                             |
|                                        |       |      |         |                    | Total Internal Reflection Lenses | RGB            | RGB [NOT Lumaera 19]                              |
|                                        |       |      |         |                    |                                  | RGB-DYN        | RGB Dynamic [Lumaera 44 & 77 with 33° Optic Only] |
|                                        |       |      |         |                    |                                  | RGBW-3000K     | Tunable RGBW (3000K) [Lumaera 44 & 77 Only]       |

2) LUMINAIRE LENGTH (Select For Chosen Width & Optic)

| LENGTH     |        |                            |        |                        |        |            |        |
|------------|--------|----------------------------|--------|------------------------|--------|------------|--------|
| LUMAERA 19 |        | LUMAERA 37 & 44 (Not RGBW) |        | LUMAERA 44 & 77 (RGBW) |        | LUMAERA 77 |        |
| 130        | 130mm  | 205                        | 205mm  | 505                    | 505mm  | 305        | 305mm  |
| 255        | 255mm  | 405                        | 405mm  | 1005                   | 1005mm | 605        | 605mm  |
| 380        | 380mm  | 605                        | 605mm  | 1505                   | 1505mm | 905        | 905mm  |
| 505        | 505mm  | 805                        | 805mm  |                        |        | 1205       | 1205mm |
| 630        | 630mm  | 1005                       | 1005mm |                        |        | 1505       | 1505mm |
| 755        | 755mm  | 1205                       | 1205mm |                        |        |            |        |
| 880        | 880mm  | 1405                       | 1405mm |                        |        |            |        |
| 1005       | 1005mm | 1605                       | 1605mm |                        |        |            |        |
| 1130       | 1130mm |                            |        |                        |        |            |        |
| 1255       | 1255mm |                            |        |                        |        |            |        |
| 1380       | 1380mm |                            |        |                        |        |            |        |
| 1505       | 1505mm |                            |        |                        |        |            |        |

3) FIXTURE POWER & IP RATING

| POWER OPTION |                                        | IP RATING |                                                |
|--------------|----------------------------------------|-----------|------------------------------------------------|
|              |                                        | IP67      |                                                |
| 6W           | 6W/m (Lumaera 19 - Static White Only)  | IP67      | Water & Dust Proof<br>Suitable for outdoor use |
| 10W          | 10W/m (Lumaera 19 - Static White Only) |           |                                                |
| 15W          | 15W/m (Lumaera 19 - Static White Only) |           |                                                |
| 24W          | 24W/m (Lumaera 37 & 44 - All Options)  |           |                                                |
| 50W          | 50W/m (Lumaera 77 - All Options)       |           |                                                |

4) BEAM ANGLE (Select for chosen width)

| BEAM ANGLE                              |                      |                                           |                                                            |
|-----------------------------------------|----------------------|-------------------------------------------|------------------------------------------------------------|
| LUMAERA 19 (+LUMAERA 44 & 77 RGBW ONLY) |                      | LUMAERA 37, 44 (NOT RGBW) & 77 (NOT RGBW) |                                                            |
| 20                                      | Symmetric 20°        | 13                                        | Symmetric 13°                                              |
| 35                                      | Symmetric 35°        | 33                                        | Symmetric 33° (Must be selected when RGB-DYN is specified) |
| 57                                      | Symmetric 57°        | 47                                        | Symmetric 47°                                              |
| 45x20                                   | Asymmetric 45° x 20° | 47x14                                     | Asymmetric 47° x 14                                        |

PRODUCT CODE:

EXAMPLE: VEX - LUMAERA - 19 - H - TIR - 2200K - 1005 - 15W - IP67 - 45x20

STANDARDS & CERTIFICATIONS

Compliance

Standard Marks



Environmental Suitability

Sustainability

Responsibly manufactured from materials that are free from 'Red List' chemicals

Recyclable

Partially recyclable. Optics and anodized parts are fully recyclable at end of life.

Reliability

Manufacturing

All Vexica products are manufactured in our UK-based factory using components sourced from internationally recognised 'tier 1' suppliers

Quality Assurance

Each product is designed and manufactured for reliability and each batch undergoes thorough quality assurance testing

Warranty & Terms

Terms & Conditions

Warranty Registration

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

Notes

