

# Vaya Free Form Dimmable White

Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

IP40, 4000 K, Frosted, 5 m (15 ft)

## Uniform, slim, flexible luminaire with dimmable white light

Vaya Free Form is a flexible linear lighting solution for straight or curved coves and recessed applications. Free Form gives you even, uniform white light on any surface, in any environment. You can easily cut and connect interior Free Form, enabling illumination that conforms to unusual and difficult-to-light shapes while eliminating waste. In outdoor environments, you can cut and reseal Free Form, retaining its IP66 rating.



- **Dependable** – A tough silicone enclosure protects the LEDs in indoor and outdoor environments. Mounting options ensure exact positioning of Free Form on any surface, so your luminaires stay in place—delivering accurate, efficient light.
- **Light, Anywhere** – With its low profile, Free Form fits into the tightest of spaces. And thanks to mounting options for virtually any surface, Free Form can illuminate any cove or recess, highlight any feature, and conform to any shape.
- **Uniform Illumination** – The first thing you'll notice when you turn on Vaya Free Form is... nothing. No striation. No color shift. No visible difference between Free Form luminaires. Just even, uniform light.
- **Cost-Effective** – In interior environments, Free Form segments can be cut and connected, no soldering required. So you lower your costs by reducing waste and lessening environmental impact. Win-win.
- **Simple Installation** – Use mounting tracks for precise, straight runs, or use secure mounting clips for curves and bends. The carefully designed silicone enclosure protects the internal circuitry and keeps everything firmly in place. So the LEDs won't get damaged or change position when installing Free Form.
- **Color Temperature Choices** – Free Form is available in six different color temperatures. From warm 2200 K, to cool 6000 K. So you get the right light for your project. Standard 3000 K and 4000 K, custom 2200 K, 2700 K, 5000 K and 6000 K.
- **Global Reach** – Vaya brings exceptional (and cost-effective) lighting solutions to large-scale implementations, such as hundreds of retail stores, maintaining brand consistency between sites and across borders.

For detailed product information, please refer to the Vaya Free Form Product Guide at [www.colorkinetics.com/global/products/vaya/free-form/](http://www.colorkinetics.com/global/products/vaya/free-form/)

**COLORKINETICS**  
**vaya series**

# Specifications

Due to continuous improvements and innovations, specifications may change without notice.

## Output

Color Temperature	4000 K
Beam Angle	120°
Lumens †	4,571
Efficacy	108.4
CRI	84

## Electrical

Input Voltage	24 VDC
Power Consumption	42 W

(Maximum at full output, steady state)

For additional Surge Protection Requirements for LED Lighting Systems, please refer to [www.colorkinetics.com/KB/surge-protection](http://www.colorkinetics.com/KB/surge-protection).

## Lumen Maintenance

Threshold§	Ambient Temperature	Reported ¶¶	Calculated ¶¶
L 90	25 °C	24,000	24,000
	50 °C	18,000	18,000
L 80	25 °C	> 36,000	48,000
	50 °C	> 36,000	36,000
L 70	25 °C	> 36,000	75,000
	50 °C	> 36,000	56,000

## Physical

Dimensions (Height x Width x Depth)	12.7 x 5000 x 4.5 mm (0.5 x 196.85 x 0.17 in)
Weight	0.35 kg (0.77 lb)
Housing Material	Extruded silicone
Lens	Frosted silicone
Mounting Options	Mounting clips, mounting track

## Temperature Ranges

- 40 to 50 °C (-40 to 122 °F) Operating
- 20 to 50 °C (-4 to 122 °F) Startup
- 40 to 80 °C (-40 to 176 °F) Storage

## Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing
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## Maximum Run Length

10 m. To calculate luminaire run lengths for your specific installation, download the Configuration Calculator from [www.colorkinetics.com/vaya/Configuration-Calculator/](http://www.colorkinetics.com/vaya/Configuration-Calculator/)

## Certification and Safety

Approbation	UL/cUL, CE
Environment	Damp Location, IP40

For additional Energy Efficiency Class Information, please refer to <https://colorkinetics.helpdocs.io/article/cvis2p8qq>.



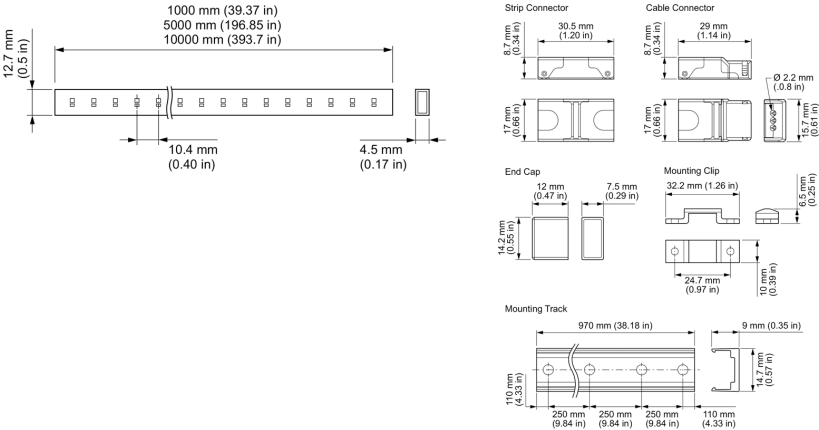
† 0.3 m (1 ft) lumen output measurements comply with IES LM-79-08 testing procedures. 5 m (15 ft) and 10 m (30 ft) measurements are estimated based on the 0.3 m (1 ft) measurements.

‡ When re-connecting segments with connectors, avoid cutting at solder joints, which appear every 500 mm (19.68 in).

§ Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B50, or the median value where 50% of the LED population is better than the reported or calculated lumen maintenance measurement.

¶¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

Dimensions

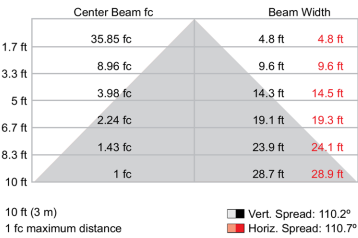


Photometrics IP66, 4000 K, Frosted, 0.3 m (1 ft)

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.colorkinetics.com/global/support/ies](http://www.colorkinetics.com/global/support/ies).

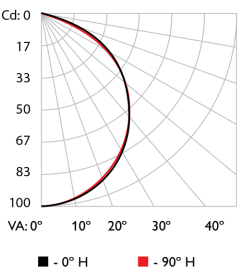
Beam Angle	120°
LED Type	4000 K
Lumens	274.0
Efficacy	108.4

Illuminance at Distance



For lux multiply fc by 10.7

Polar Candela Distribution



	0	25	45	65	90
0	100	100	100	100	100
5	99	99	99	99	99
15	95	95	94	95	95
25	88	87	86	87	87
35	78	76	76	77	77
45	64	62	63	64	64
55	48	47	47	49	49
65	32	30	30	30	29
75	16	14	13	14	13
85	3	3	3	3	3
90	1	1	1	1	1

# Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
Vaya Free Form Dimmable White, IP40, 4000 K, Frosted, 5 m (15 ft) 20 Mounting clips included.	350-000019-10	912400136456
Accessories		
Mounting Clips, WH/TW (PC) (50 PCS)	320-000019-00	912400136487
Mounting Track, WH/TW (AL), 1 m (3 ft) (10 PCS)	320-000019-01	912400136488
Cable Connector, IP40, WH/TW (10 PCS)	320-000019-02	912400136489
Strip Connector, IP40,WH/TW (10 PCS)	320-000019-03	912400136490
End Cap, IP66, WH/TW (Including RTV Glue) (30 PCS)	320-000020-00	912400136491
DALI Dimming Module, 120W, 24 V, UL/CE	309-000003-02	912400135776
Power Supplies		
Philips 100 W 24 V Power Supply (120-240V) CE/ENEC/CB/VDE-EMC/VDE-S/VDE-Household/RCM/CSA/cUL/CCC	-	929001669506
XITANIUM 100 W 24 V Power Supply (120 to 277 V) UL/CSA	309-000001-00	912400130191
XITANIUM 100 W 24 V Power Supply (100 to 240 V) PSE	-	929000485303