

# VESTA 1

PENDANT



**Vesta 1 - Pendant Linear LED system.** Part of the Vesta collection, the Vesta 1 Pendant Linear LED system offers performance, flexibility and aesthetics. A unique SENSO design, the subtly flared Vesta 1 features a symmetrical, high-performance frosted lens, illuminating the lens surface evenly with no shadows or dark spots. With integrated drivers and controls, this fixture is easy to install and widely applicable. Vesta 1 offers both direct and indirect lighting options, allowing you to switch on the light sources independently or in unison.

Full-length seamless lenses range from 4 to 12 feet. Available in L-, T- and X-shaped nodes, the Vesta 1 system can readily adapt to any configuration.

## Ordering Code

Fixture	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	1	2	3	4	5	6	7	8	
Driver	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	1	2	3	4	5	6	7	8	9

## Product Specifications

**SAMPLE:** Fixture **354 - 90 - 12 - 27 - F0 - 01 - 04 - 00** | Driver **STD - 120 - 01 - 01 - 01 - 01 - 05**

1 - Model	2 - CRI	3 - Length	4 - CCT	5 - Lens	6 - Finish	7 - Direct Lm
<b>354</b> · Indirect	<b>90</b> · 90+	<b>2</b> · 23"	<b>27</b> · 2700K	<i>Down</i>	<b>01</b> · White	<b>04</b> · 400 lm/ft (3.8 W)
<b>355</b> · Direct		<b>4</b> · 45.5"	<b>30</b> · 3000K	<b>F</b> · Frosted Symmetric	<b>02</b> · Black	<b>06</b> · 566 lm/ft (5.7 W)
<b>356</b> · Direct/Indirect		<b>6</b> · 68"	<b>35</b> · 3500K	<b>A</b> · Asymmetric <sup>3</sup>	<b>08</b> · Silver	<b>08</b> · 843 lm/ft (9.4 W)
		<b>8</b> · 90.5"	<b>40</b> · 4000K	<b>0</b> · None	<b>XX</b> · Custom	<b>10</b> · 1034 lm/ft (12 W)
		<b>10</b> · 113"		<i>Up</i>		<b>12</b> · 1220 lm/ft (15 W)
		<b>12</b> · 135.5"		<b>F</b> · Frosted Symmetric		<b>00</b> · None
		<b>A-T</b> · More Lengths <sup>*1</sup>		<b>A</b> · Asymmetric <sup>3</sup>		
		<b>XX</b> · System <sup>*2</sup>		<b>B</b> · Batwing		
				<b>0</b> · None		

8 - Indirect Lm	1 - Driver	Dim Level	2 - Voltage	3 - LED Control <sup>9</sup>
<b>04</b> · 454 lm/ft (3.9 W)	<b>STD/LCS</b> · 0 - 10 Volt dim option incl.	1%	<b>120</b> · 120V	<b>01</b> · Standard switching
<b>06</b> · 628 lm/ft (5.6 W)	<b>ELDOLC</b> · EldoLED 0 - 10 Volt	0.1%	<b>277</b> · 277V	<b>02</b> · Separate switching
<b>08</b> · 788 lm/ft (7.4 W)	<b>DALI</b> · Dali Protocol	0.1%	<b>347</b> · 347V <sup>8</sup>	<b>20</b> · Emergency wiring
<b>00</b> · None	<b>LUTES</b> · Hilume Ecodigital	1%		<b>21</b> · Emergency Battery Back-Up (4 foot section)
	<b>LUT2W</b> · 2 Wire for phase <sup>*4</sup>	1%		

4 - Canopy Type <sup>9</sup>	5 - Canopy Color <sup>9</sup>	6 - Wire Color <sup>9</sup>	7 - Suspension Height	8 - Direct Lm	9 - Indirect Lm
<b>01</b> · Standard Round	<b>01</b> · White	<b>01</b> · White	<b>05</b> · 5'	Same as Fixture	Same as Fixture
<b>02</b> · Unified Square	<b>02</b> · Black	<b>02</b> · Black	<b>08</b> · 8'		
<b>03</b> · Unified Round	<b>08</b> · Silver	<b>03</b> · Clear	<b>10</b> · 10'		
			<b>XX</b> · Custom		

\*1 See page four for more detailed lengths

\*2 See page two for more details

\*3 Asymmetric Direct Lumen limited to **04/06/08** (wattages doubled)

\*4 120V only

\*5 Adds 3.75" to fixture length

\*6 See Vesta Sensor spec sheet for additional information

\*7 1 sensor per 16' on model 354 and 355

1 sensor per 8' on model 356

\*8 Not available in Dali, Lutron and DMX

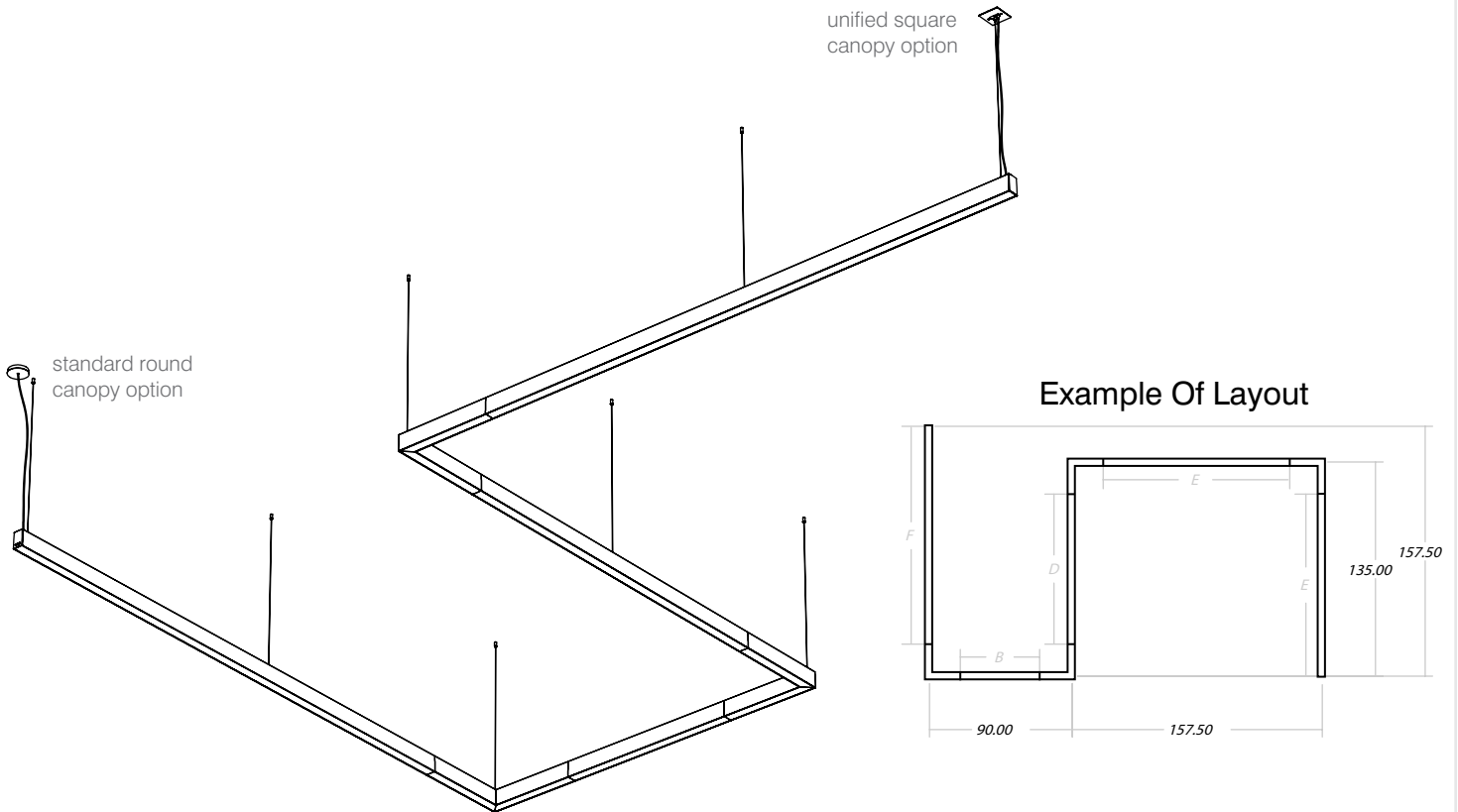
\*9 See page three for more details

Project : \_\_\_\_\_  
 Quantity : \_\_\_\_\_  
 Type : \_\_\_\_\_  
 Notes : \_\_\_\_\_



## Continuous Layout Using Corners Only

The Vesta 1 system is not limited to straight runs. Available L nodes, used in association with linear sections, provide freedom to create seamless configurations. Linear sections are available in 22.5inch increment.



### How To Specify

1. Draw your layout, as seen from bottom, considering:
  - Drawings are made using center axis as reference
  - Minimum 45inch between contiguous corners
  - 22.5inch increment
2. Provide the following information
  - Total number of corners
  - Total length
  - Drawing

Using example:

corners = 3

Total length =  $157.5 + 90 + 135 + 157.5 = 540$ inch

### Extra Information

#### Suspension points

- Suspension point at end always 2.75inch from end ,excluding cap
- There is always a suspension point at corner
- For a general guideline of the number of suspension points for each straight section, refer to p.5

#### Feed point

- Defined by the number of drivers required. Refer to p.4 for an approximation of the number of feed required. Use the total length of your system, and use the corresponding number, depending if it's direct, direct-indirect standard switching or direct-indirect separate switching.

## Advanced Intersecting System Using T & X Nodes

For advanced configurations, contact the SENSO factory to complete your system.



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## Light Engine

<b>High Efficacy :</b>	Up to 170 lumen/Watt
<b>Color Options (CCT) :</b>	2700K, 3000K, 3500K, 4000K
<b>Color Consistency :</b>	3-step MacAdam Ellipse
<b>Color Rendering (CRI) :</b>	90+
<b>Lumen Maintenance :</b>	100,000 hours (L-70 @ 25°C)

Vesta 1 features a high-output, high-efficacy light engine—without any compromise. Class-leading efficiency at over 100lm/W keeps running costs low. Color rendering options are available up to 90+ CRI, along with color consistency within a three-step MacAdam ellipse. Every Vesta undergoes a multi-step test and burn-in procedure before shipping, ensuring the superior level of quality SENSO is known for.

## Dimming<sup>\*1</sup>

<b>Protocol :</b>	0-10V DALI LUTRON DMX
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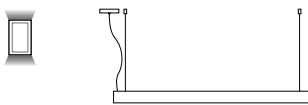
**Level :** From 0.1% to 10%

The Vesta combines high output with limitless possibilities of control. Dimming down to 0.1% is also available in Lutron (120-277V) and Dali systems (120-277V).

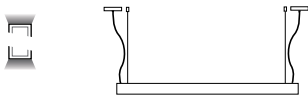
## Switching

(For Direct / Indirect Configuration)

1. Standard switching  
Single point feed required



2. Direct/indirect separate switching  
Dual point feed required for separate switching and emergency



\*1 See page 1 for full dimming options

## Canopy

- Standard canopy separate from aircraft cable for flexible feed point
- Unified canopy combines feed and aircraft cable
- Fully covers standard electrical box

1. Round Canopy  
**Ø4.7" [120mm]**
2. Unified Square Canopy  
**4.6" x 4.6" [117mm x 117mm]**



3. Unified Round Canopy  
**Ø4.35" [110.5mm]**



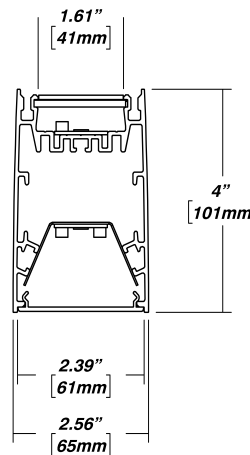
## Installation

- Suspended using aircraft cable. Fully height adjustable
- Factory assembled for easy and fast installation
- Electrical wire and aircraft cable included

## Construction

- Powder coated in white, black or silver
- Custom finish are available
- Housing: Aluminum extrusion
- Made in Canada

## Dimensions



# VESTA 1

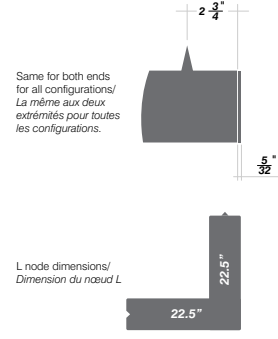
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## Standard Vesta Lengths

CODE	FIXTURE LENGTH* LONGUEUR	Feet	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	
A	23"																					
B (4)	45.5"																					
C (6)	68"																					
D (8)	90.5"																					
E (10)	113"																					
F (12)	135.5"																					
G	158"																					
H	180.5"																					
I	203"																					
J	225.5"																					
K	248"																					
L	270.5"																					
M	293"																					
N	315.5"																					
O	338"																					
P	360.5"																					
Q	383"																					
R	405.5"																					
S	428"																					
T	450.5"																					

### Legend

- ⋮ : Suspension Point/point de suspension
- F() : Feed Point/Points d'alimentation
- D : Direct
- DI : Direct / Indirect
- SS : Separate Switching/Illumination séparée



Same for both ends for all configurations/  
La même aux deux extrémités pour toutes les configurations.

L node dimensions/  
Dimension du nœud L

\*1 Not including end-caps. End-caps are an additional 5/32"  
Couverture d'extrémité non incluse. Les couvertures d'extrémité ajoutent 5/32" supplémentaires.

For custom lengths please call customer service. Cover plates will be added to each end to avoid dark spaces on lens.

Pour des longueurs personnalisées, appelez le service à la clientèle. Des plaques de couverture seront ajoutées à chaque extrémité pour éviter les espaces sombres sur la lentille.

Sensor adds 3.75" to standard vesta length  
Le capteur ajoutera 3,75" de longueur à votre appareil.

## Photometrics

SENSO's in-house photometric testing ensures that our lighting design can match your needs precisely. Our Goniophotometer and testing lab produces on-demand photometry files based on any specified fixture, including LM-79 Test reports, IES Files, and CRI/CCT measurements. See [sensolighting.com](http://sensolighting.com) for more information.

\*Full photometric Reports and IES files available for every configuration

## Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	528.37	15.50
0-30	1085.53	31.90
0-40	1709.34	50.30
0-60	2806.23	82.60
0-80	3352.15	98.60
0-90	3398.12	100.00
10-90	3258.52	95.90
20-40	1180.97	34.70
20-50	1777.92	52.30
40-70	1453.16	42.80
60-80	545.92	16.10
70-80	189.65	5.60
80-90	45.97	1.40
90-110	0.56	0.00
90-120	0.57	0.00
90-130	0.57	0.00
90-150	0.57	0.00
90-180	0.57	0.00
110-180	0.01	0.00
0-180	3398.69	100.00

## Luminance DATA (cd/sq.m)

Angle in °	Average 0°	Average 45°	Average 90°
45	1633	17494	18653
55	14387	15594	16807
65	12589	13662	14754
75	10484	11188	11811
85	7096	6899	6301

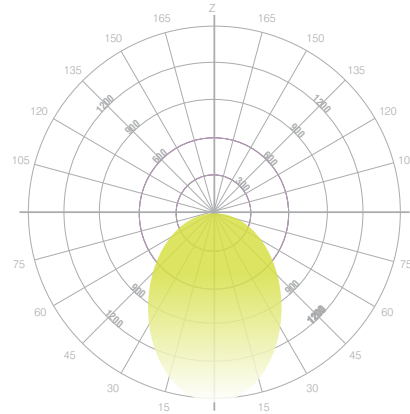
## IES Indoor Report

### Coefficients of utilization - zonal cavity method

Effective Floor Cavity Reflectance 0.20

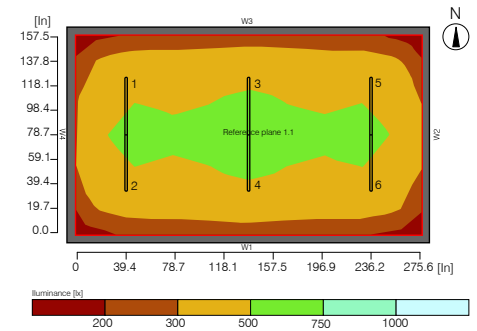
RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

## Vesta Light Distribution



- Fixture: Vesta 48" [121.92 cm]
- Total Lumen Output: 3399 lm
- Wattage: 45 W
- Lumen per Watt: 75

## Vesta Performance Example



- Calculation algorithm used Average indirect fraction
- Height of luminaire plane 118.11" [3.00 m]
- Maintenance factor 31.5" [0.80 m]
- Total luminous flux of all lamps 20358 lm
- Total power 270.0 W
- Total power per area (28.00 m²) 9.64 W/m² (2.26 W/m²/100lx)

## Color Metrics

### TM 30-15

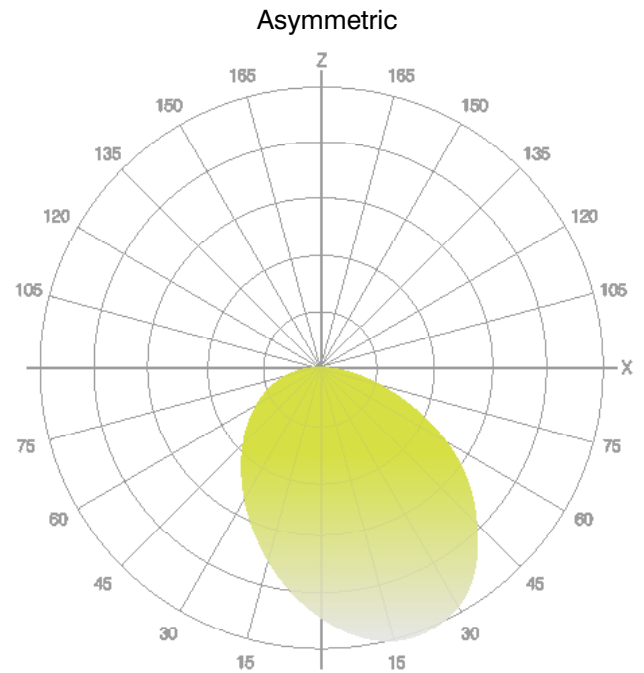
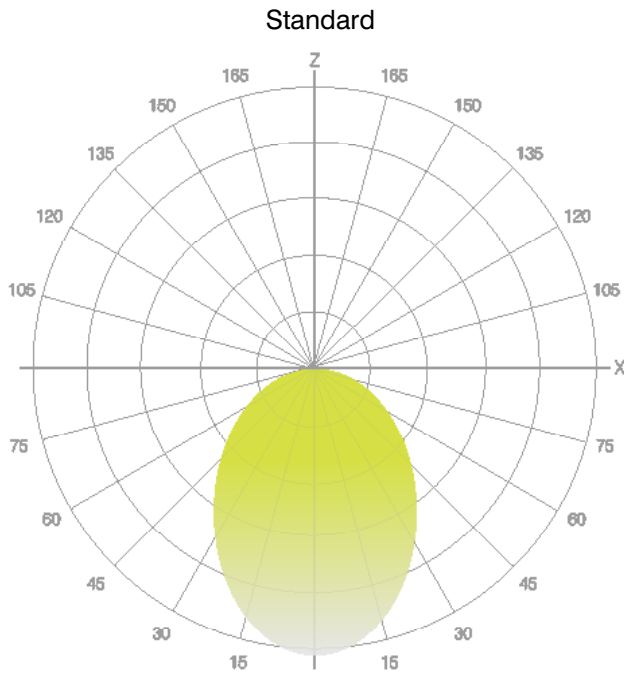
Our clients deserve the best information possible about their lighting choices. That's why SENSO has invested in the Illuminating Engineering Society (IES) TM 30-15, a new system that measures an LED light source's color rendering properties. Using SENSO's state-of-the-art goniophotometer, this method identifies the optimal light source for your project and helps evaluate the trade-offs between efficacy and color rendering. SENSO can provide TM 30-15 data for all of our products.

\*Full Color Metric Info Available at [sensolighting.com](http://sensolighting.com)

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## Vesta 1 Downlight Distribution



## Vesta 1 Uplight Distribution

