# VECTOR<sup>®</sup>2 **PENDANT** Ambient Linear LED

#### Performance Data

CRI

 $95\ \mathrm{min}\ \mathrm{with}\ \mathrm{R9}\ \mathrm{of}\ 69\ \mathrm{or}\ \mathrm{better}$ 

#### ССТ

2700K, 3000K, 3500K, 4000K, 5 Channel Color Tuning

**Projected Lifetime** 

240,000 Hours (L80); 110,000 Hours (L90)

Dimming

0-10V dimming standard

**Operating Temperature** 

-30°C to +55°C (-22°F to +131°F)

#### **ETL Listed**

Approved for dry and damp locations

pp Lens 1/2" or 2" (Direct)	Louver (Direct)					
		2012 PROGRESS R e p o r t	ETL	DLC	10 Yr	U

# Asymmetric (Indirect) Description

Dro

Client:

Project Name:\_

The Vector 2 is a 2%6" wide linear architectural luminaire. While the Vector has a slim and discreet profile, it provides excellent illumination for offices, laboratories, libraries, and commercial spaces. Vector is available in standard lengths of 2', 3', 4', 6', and 8', and can be joined together in seamless runs of any length in 1 foot increments.

#### Features

- Selected by IES for the 2017 Progress Report
- Dual Circuit (DC) option enables independent dimming and control of uplight/downlight

Batwing (Indirect)

- Up to 1200 lm/ft direct, 1,400 lm/ft indirect at 4000K
- DLC Listed for utility rebates (see page 4)

#### PHYSICAL

Listed

- Profile Dimensions: 2.44" wide x 5" high
- End Caps: Die cast aluminum with powder coat finish

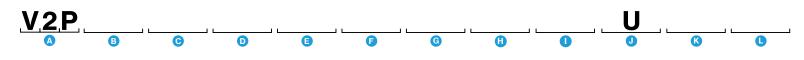
Listed

- Housing: Extruded Aluminum with powder coat finish
- Direct Lens: Extruded Satin Acrylic

Order #:\_

Type: \_

- Indirect Lens: Extruded clear Acrylic
- Light Engine: Aluminum core LED board mounted to a white extruded chassis with integral driver and quick electrical disconnects for rapid tool-less servicing
- Weight: 30 pounds (8ft luminaire)



# Ordering Information

#### A FIXTURE SERIES

V2P	Vector 2 Pendant
<b>B</b> DISTRIBUTION	
I	Direct/Indirect
D	Direct
C LENGTH	
2	2'
3	3'
4	4'
6	6'
8	8'
Sxxx	System <sup>1</sup>

#### D OUTPUT DOWN

	L	7.5W/ft
	М	10W/ft
	Н	15W/ft
e	OUTPUT UF	)*
	L	7.5W/ft
	М	10W/ft
	Н	15W/ft
G	CCT DOWN	
	27	2700K
	30	3000K
	35	3500K
	40	4000K
	ЗW	3 Channel Tunable White <sup>2</sup>
	5W	5 Channel Color Tuning <sup>2</sup>

G	CCT UP*		J	VOLTAGE	
	27	2700K		U	
	30	3000K	K	MOUNTING	G CA
	35	3500K		CA	
	40	4000K		СВ	
	ЗW	3 Channel Tunable White <sup>2</sup>		CD	
	5W	5 Channel Color Tuning <sup>2</sup>		CF	
C	DIRECT L	ENS		CG	
	_	Frosted <sup>7</sup>		СН	
	С	1/2" Drop Lens		CJ	
	D	2" Drop Lens		СК	
	L	Louver		CL	
0	INDIREC <sup>®</sup>	T LENS			_
	_	Standard Clear <sup>7</sup>		C	Con

# Standard Clear' B Batwing A Asymmetric

120-277V

СА	24" Cable
СВ	48" Cable
CD	60" Cable
CF	72" Cable
CG	96" Cable
СН	120" Cable
CJ	150" Cable
СК	180" Cable
CL	240" Cable

#### Continues on Pg 2

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2917 Vail Ave. Commerce Ca 9004( www.getdeco.co info@getdeco.co t: (800) 613-DE0 f: (310)366-685 Deco Lighting practices a program of continuous product development, and as a result product specifications change frequently. We reserve the right to change product specifications without notice. Contact Deco for the latest product information.

## DECO<sup>®</sup> LIGHTING

Qty:\_

Warranty cluding La

## "Digitize your light."

#### I FINISH<sup>5</sup>

#### M OPTIONS

W	Textured White	DC	Dual Circuit for Up/Down <sup>8</sup>
S	Textured Silver	E	Emergency Battery Backup
В	Textured Black	Т	Daylight Sensor <sup>6</sup>
##	Specialized Colors <sup>3,4</sup>	М	Motion Sensor <sup>6</sup>
С	Textured Custom Colors	V	Daylight/Occupancy Sensor <sup>6</sup>

#### **N** CONTROLS

	LE	LUTRON Ecosystem
-	LV	LUTRON VIVE
	PE	PHILIPS Easysense
	NL	nLight
	EO	EnlightedONE System <sup>6</sup>

\*Only available when direct/indirect distribution is selected

Replace "xxx" with desired system length, in feet. See Continuous Run Guide for additional information (separate document)

<sup>4</sup> Please Note: All orders under 25 linear feet will require a one-time set up charge. Please consult factory for charge.

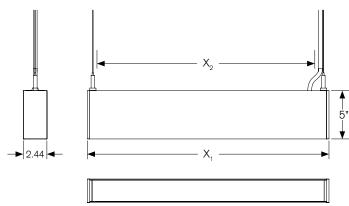
<sup>5</sup> All finishes are textured unless specified otherwise by the customer

<sup>6</sup> Default sensor is the Enlighted One. See Page 6 for more information

<sup>7</sup> Fixture standard

<sup>8</sup> Dual circuit offered with 6 wire cord - two hots, neutral, ground, and 0-10V dimming.

#### Dimensions



	2	3	4	6	8
<b>X</b> <sub>1</sub>	24.32"	36.32"	48.32"	72.32"	96.32"
X <sub>2</sub>	23.35"	35.35"	47.35"	71.35"	95.35"

#### Specialized Colors

A-Classic

01	Natural Aluminum	RAL #7035
02	Silver Bullet	RAL #7038
02	Silver Dullet	TAL #7030
03	Raven	RAL #9005
04		RAL #9010
04	Crystal White	RAL #9010
05	Macademia	RAL #9003
06	Hampden	RAL #9001
07	London	RAL #7044

Please Note: All orders under 25 linear feet will require a one-time set up charge. Please consult factory for charge.

#### B-Urban

111		
08	Urban Native	RAL #8025
09	Military Green	RAL #6011
10	Carmin	RAL #8028
	ſ	
11	Chocolate Spice	RAL #8017
	1	
12	Asher Grey	RAL #7004
13	Tech Grey	RAL #7016
14	Slate	RAL #7031
15	Mason	RAL #7039

C-Fresh	ı		
	16	Violet Dreams	RAL #4006
	17	Sangria Sunset	RAL #2004
	18	Deep Pink	RAL #4010
	19	Ruby Red	RAL #3027
	20	Island Skye	RAL #6027
	21	Sophia	RAL #5015
	22	Antique Spring	RAL #6019
	23	Daisy	RAL #1018
	24	Gun Metal	RAL #7024

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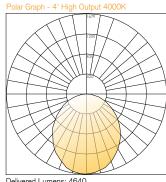
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<sup>&</sup>lt;sup>2</sup>Tunable CCT options only available at High Output setting. Controlled using DLM or DMX system (see Pages 4-5 for more info) <sup>3</sup>See below for Ordering Codes on 24 Specialized Finishes. Example "07"

### VECTOR<sup>®</sup> 2 PENDANT Ambient Linear LED

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#### Photometrics



Delivered Lumens: 10,400 (4640 Direct / 5760 Indirect)

Polar Graph - 4' High Direct / High Indirect 4000K

Delivered Lumens: 4640 CRI: 97

#### Direct (Down) Lumen Chart:

OUTPUT SELECTION	LOW	MEDIUM	HIGH
NOMINAL WATTAGE	7.5W/ft	10W/ft	15W/ft
LUMENS PER FOOT	570	855	1160
2' LENGTH			
System Wattage	12.00	18.00	24.00
Lumen Output	1140	1700	2320
3' LENGTH			
System Wattage	18.00	27.00	36.00
Lumen Output	1710	2550	3480
4' LENGTH			
System Wattage	24.00	36.00	49.00
Lumen Output	2280	3400	4640
6' LENGTH			
System Wattage	36.00	54.00	72.00
Lumen Output	3420	5100	6960
8' LENGTH			
System Wattage	48.00	72.00	96.00
Lumen Output	4560	6800	9280

CRI: 97

Lumen values shown are for 4000K models. For other color temperatures, use the below multipliers:

2700K: 0.85, 3000K: 0.90, 3500K: 0.95

For total system wattage consumption and lumen output, add the direct and indirect lumen and wattage data based on output settings desired.



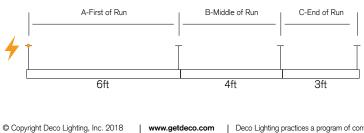
	Direct	Indirect	Total
Wattage	49.00	24.00	73.00
Lumen	4640	2880	7520

#### **Continuous Runs**

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When a system run is ordered, individual sections are shipped, labeled with their Section of Run noted at the end of the part number. Shown below is an example of a 13' continuous run. For more information, refer to the continuous run guide.



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Indirect (L	Jp) Lumen	Chart:
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OUTPUT SELECTION	LOW	MEDIUM	HIGH	
NOMINAL WATTAGE	7.5W/ft	10W/ft	15W/ft	
LUMENS PER FOOT	720	1080	1440	
2' LENGTH				
System Wattage	12.00	18.00	24.00	
Lumen Output	1440	2160	2880	
3' LENGTH				
System Wattage	18.00	27.00	36.00	
Lumen Output	2160	3240	4320	
4' LENGTH				
System Wattage	24.00	36.00	48.00	
Lumen Output	2880	4320	5760	
6' LENGTH				
System Wattage	36.00	54.00	72.00	
Lumen Output	4320	6480	8640	
8' LENGTH				
System Wattage	48.00	72.00	96.00	
Lumen Output	5760	8640	11520	

**DLC Listed Models (Utility Rebates)** 

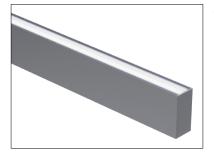
4' Models	8' Models		
V2P-I-4-M-M-35-35-U	V2P-I-8-M-M-35-35-U		
V2P-I-4-M-M-40-40-U	V2P-I-8-M-M-40-40-U		
V2P-I-4-H-H-35-35-U	V2P-I-8-H-H-35-35-U		
	V2P-I-8-H-H-40-40-U		



## "Digitize your light."

#### Lens Accessories

Asymmetric (Indirect)

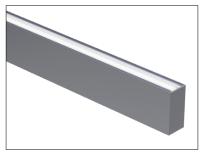


A frosted PMMA lens with integrated TIR optic. Peak candela is at 60 degrees from Nadir.



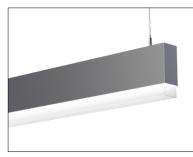
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Batwing (Indirect)



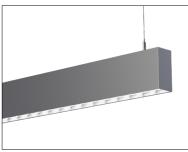
A clear PMMA lens with integrated TIR optic, resulting in a broad, shallow batwing distribution. Provides excellent uniformity when luminaire is mounted close to the ceiling.

Drop Lens (Direct) Available in 1/2" and 2"



A white frosted PMMA lens that protrudes from the luminaire housing by 0.5" or 1.5" End caps are chemically welded to the lens.

Louver (Direct)



A Semi-specular parabolic louver. 22 GA. Aluminum Louver depth 3/4" louver spacing 2" Provides excellent glare control.



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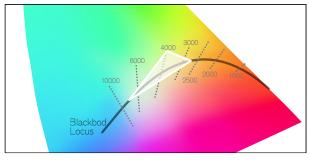


#### 3-Channel Tunable White Circadian Rhythm-based Illumination

Deco Spectrum<sup>™</sup> White is a three-channel tunable white solution delivering a wide range of color temperatures precisely along the blackbody curve to replicate natural daylight. This new introduction to the Vector series combines precision dimming with human-centric tunable white illumination aimed to more accurately follow the body's circadian rhythm than static white luminaires. This system is an ideal solution for healthcare, education, and office applications seeking to better tailor lighting to the evolving needs of their clients and customers.

The benefits of Deco Spectrum<sup>™</sup> White include:

- Both lumen and color maintenance ensure consistent light output throughout the life of the fixture
  The Architectural Dimming control system delivers precise dimming via DMX for both tunable white and color applications with fixed and mobile user interfaces
- •90+ CRI throughout entire tunable CCT range
- On-Planckian tuning from a warm 2700K to cool 6500K
- Delivers the highest possible quality of tunable white light currently available, replicating the visual comfort of natural daylight.

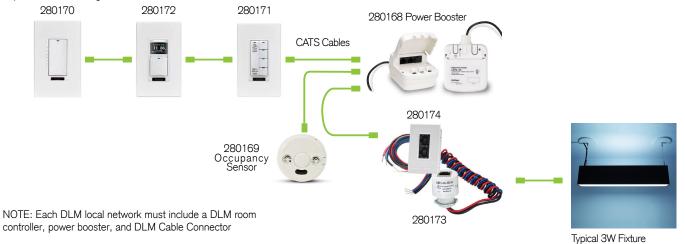


Three White LEDs Tunable range is within the white shaded gamut. (2700K – 6500K)



#### Connection

Sample Connection Diagram with 3W Fixtures



#### Parts

280168- DLM Power Booster -Conduit Mount -120-277VAC

280169- Occupancy Sensor

280170- DLM Digital Dimming Wall Switch - White

280171- DLM Digital Color Preset Switch - White

280172- DLM Digital Color Control Schedule Switch - White

280173- DLM Cable connector whip with one RJ45 port and 24" leads; fits 1/2" KO

280174- DLM Cable connector whip with two RJ45 port and 24" leads; fits rectangular Opening

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### Digitize your light.



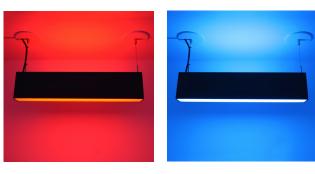
#### 5 Channel Color Tuning

Deco Spectrum<sup>™</sup> Color mixes five d<sup>1</sup>/<sub>i</sub>fferent colors of high brightness, broad spectrum LEDs – none of which are white – to deliver light that is 2 MacAdam ellipses about the Planckian curve at 90+ CRI across the tuning range. The result: light that accurately depicts – across the full tuning range – the object's color as compared to its color in true sunlight.

The number of control channels deployed in a color tuning system impacts the quality of the light and consistency of color. It also affects the color tuning range, the level of gamut control and the efficacy of the solution.

The benefits of Deco Spectrum<sup>™</sup> Color include:

- Perfectly natural white light.
- On-Planckian tuning from 1650K to 8000K.
- Dimming from 100% to 1% while maintaining CCT, or variable CCT from 3050K down to 1800K to match traditional incandescent or MR-16 lamp dimming
- Industry-leading color rendering (Ra) greater than 90, throughout the tuning range.
- Gamut control for unlimited control and customization of lighting design using the Saturation and Hue controls.
- Consistent color of 2 SDCM about the Planckian Curve over the life of the module.
- Deco 5 Channel Color Tuning must be controlled using DMX protocol only.



#### **Example Control Options**

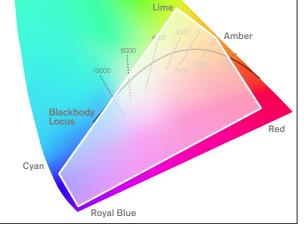


(SM-8) The SM-8 is a Wall-Mounted DMX Controller with 8 preset static lighting scenes.



STICK (280188)

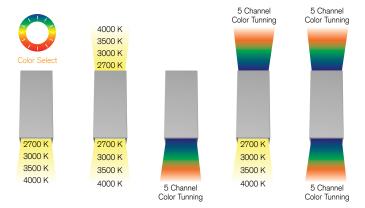
The STICK is a Wall-Mounted Smart DMX Controller with USB and Ethernet connectivity. Users can load multiple zones with static and transient scenes, and attach photos to each scene that will appear on the LCD screen.

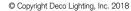


Five Color LEDs (1650K – 8000K)

Tunable range is within the white shaded gamut.
 With Deco Spectrum<sup>™</sup> you can go off the curve to change saturation and hue.

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### Digitize your light.

#### **Enlighted Micro Sensor**

The Micro Sensor is a complete sensing and lighting control node powered from its attached light fixture. An innovative carrier-based mounting design supports easy installation and replacement. With integrated wireless communications for data transmission and remote configuration as well as autonomous fixture-level control, this sensor brings advanced lighting automation to a whole new level.

The Enlighted Micro Sensor		The Enlighted Fixture Carrier					
Body	L	0.88"	22.5mm	Body	L	0.51"	13 mm
	Dia	0.73"	18.5 mm		Dia	0.81"	20.7 mm
Bezel	Dia.	1.06"	27.0 mm				

#### Features and Benefits

#### Bluetooth Low Energy:

An embedded BLE radio allows the sensor to receive and transmit beacons as well as support communication with lighting control devices and other sensors.

#### Enlighted Sensor Interface (ESI):

IoT ReadyTM LED drivers and Enlighted Control Units communicate with the sensor directly via a serial interface. The ESI provides access to device information, energy consumption, and digital lighting control.

#### Localized Lighting Control:

Light-level schedules, preferences, and behavior profiles for each fixture are wirelessly communicated during system setup and locally stored to ensure continuous operation.

#### Driver Compatibility:

Dimming and on/off control signaling for standard 0-10V ballasts and drivers in LED and fluorescent light fixtures.

#### Standards-Based Networking and Security:

The Enlighted 802.15.4 wireless network with AES-128 encryption delivers secure, reliable communication that coexists with Wi-Fi networks by sensing low-traffic channels and transmitting in bursts.



#### Occupancy and Thermal Sensing:

A digital Passive Infrared (PIR) sensor combined with separate ambient and temperature sensing support precise motion identification while minimizing false detection events.

#### IoT Sensing Node:

When configured as an IoT Node, the sensor streams comprehensive live data for use with Enlighted's real-time location and analytics software applications. This option is available directly from the factory or as a remote upgrade.

#### Daylight Harvesting:

Captured ambient light information is locally processed to raise and lower light levels based on available daylight.

#### Edge Sensing:

Local processing capability supports advanced sensing and detection algorithms, providing optimization of existing features and enabling future applications.

#### Room and Zone Control:

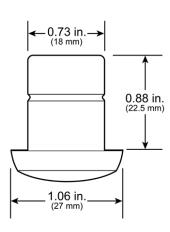
Pairs with room control switches for code-compliant manual-on or auto-off capability. Sensors can be grouped into zones that share occupancy sensing data and coordinate light control based on detected motion.

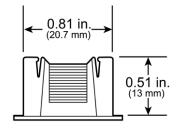
#### Mounting

The Enlighted Micro Sensor is designed to be easily mounted into lighting fixtures or ceiling tiles such that only the discreet white faceplate is visible. The sensor slides into a carrier sleeve fitting a standard 1/2 inch trade size knockout or 7/8 inch (22 mm) hole. Carrier sleeves compatible with either lighting fixtures or ceiling tiles are available. Sensor replacement requires no tools—simply slide the sensor out of the carrier, unplug the connector, and install the new sensor.

Micro Sensor

Carrier





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#### **Smart Controls**

The Vector is compatible with a variety of advanced sensor solutions from Phillips, Lutron, Enlighted, and Osram, to name just a few. Smart sensors are an ideal add-on for those seeking additional functional benefits and even deeper energy savings over traditional fluorescent systems. Smart sensors increase the versatility of the Vector, transforming the way in which the luminaire adapts to the needs and behaviors of inhabitants within a space to create a smart building solution that marries design with function.

# DECOMESH?

Utilizing Bluetooth Smart<sup>®</sup> technology, light fixtures interact directly with smartphones, without the need of a bridge or complex setup. Luminaires can be operated in public mode, giving access to everyone, or private mode, restricting access to select individuals.

# LIGHT

nlight® is a networked digital lighting control solution that delivers energy savings and increased user configurability by combining time-based, daylight-based, sensor-based and manual lighting control schemes. With this protocol the Vector has the NCMB 9 In-fixture sensor installed into the fixture.

# PHILIPS

Phillips sensor solutions are designed for applications that include retail and hospitality, office spaces, public areas, and education. Offering devices that combine motion detection, light level assessment, and dimming into single units, Phillips delivers a system for sophisticated yet simple lighting control. When this protocol is selected the Vector has PHILIPS drivers installed and wired, ready to connect to your ecosystem. No sensors are included.

# enlighted

Patented, software-defined smart sensor solution that tracks real-time occupancy, light levels, ambient temperature and energy usage, along with other data points. Enlighted sensors can distinguish between people and objects, customize controls for specific tasks, leverage ambient light provide unmatched coverage for data collection.

### **UTRON**®

Utilizing the proprietary EcoSystem<sup>®</sup> communications protocol, Lutron provides a two-way digital network that incorporates motion sensing, daylight harvesting, occupancy/vacancy sensing, and high performance dimming functionality. When this protocol is selected the Vector has Lutron drivers installed and wired, ready to connect to your ecosystem. No sensors are included.



A modular wireless lighting control system utilizing Lutron-patented and proven RF protocols designed for new and existing buildings. Vive System wireless solutions are well-suited for K-12 schools, commercial and government offices, and university campuses where the customer is looking to meet basic code requirements while enabling simple commissioning, operation & reporting via IoT capable smart devices. When this protocol is selected the Vector has Lutron drivers and the VWSD Lutron Vive Wireless Fixture (Integral RF w/Occ & Daylight Sensor) installed. Alternatively, the VWO Powpack can be purchased and installed separately.



Wattstopper offers a comprehensive line of simple, scalable and flexible energy efficient lighting controls and solutions for commercial and residential spaces with a mix of digital lighting management built on occupancy, plug load, and daylighting controls. Currently the 3W version of the Vector is the only version ready to use out of the box with Legrand protocols.

Smart Sensors	Protocol	Compatible Networks*	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire
DECOMESH	BLF Blue Tooth Low Energy	DECOMesh	Enabled	Enabled	No	Wired
nLight	nLight	nLight	Enabled	Enabled	No	Wired
enlighted	Enlighted RF	Enlighted RF	Integrated	Integrated	Yes	Wireless
VAITSTOPPER®	DLM	DLM	Enabled	Enabled	No	Wired
<b>総LUTRON</b> 。	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired
VIVE	Lutron Clear Connect®	Lutron Vive System Network	Enabled	Enabled	No	Wireless
PHILIPS	ZigBee HA	Philips	Enabled	Enabled	No	Wired

\*Not all compatible networks may be listed.

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