

Note: This product has been discontinued and replaced with the NVL F G2.



Project:	
Location:	
Cat. #:	
Туре:	
Quantity:	



# NVL 4F | LED Vaportight High/Low Bay

#### Features:

- High performance LED technology
- 0-10V dimming drivers standard
- Multiple hanging options, including surface, chain, and aircraft cable, for easy installation
- Pre-wired 6' single circuit cord comes standard. Other cord options available
- Durable materials and craftsmanship allows the NVL F to withstand some of the harshest environments

### Applications:

Most industrial, retail, and recreational low bay and high bay applications

- Warehouse
- Manufacturing Facility
- Food Processing
- Freezer

### **Ambient Operating Temp.:**

• -30°C to 35°C

#### Predicted L70 Lifetime:

 >72,000 hrs (reported) (based on LM-80, TM-21 and in-situ laboratory testing)

#### Construction:

- UL 5VA fiberglass housing (will not melt or burn)
- Clear polycarbonate lens
- Pre-painted aluminum board trays
- Stainless steel mounting hardware

#### Certifications:

- UL 1598 listed for US and Canada, suitable for wet locations
- IP66
- NEMA 4X
- NSF
- PSI 1500
- RoHS





#### Warranty:

 5 year limited system warranty - see <u>www.LumenFocus.com</u> for complete warranty terms and conditions





**CAUTION:** Due to high pressure washdown requirements, fixture minimum mounting height is 14 feet above the floor. Lens system should never be removed by anyone but a factory-approved trained technician using torque wrenches.







# Ordering Guide:

Orderin	ng G	uide:						exam	nple: NVL 4 F HI U	V CFP 840 SM C
Series L	ength.	Profile	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Cords	Options
NVL	4	F								
NVL	4 4'	<b>F</b> Flat Bottom	LW Low MD Medium HI High VH Very High	UV 120-277 <b>34</b> 347V	CFP Clear Flat Polycarbonate CFPP Heavier Gauge Clear Flat Polycarbonate	835 80 CRI/3500K 840 80 CRI/4000K 850 80 CRI/5000K	Blank Surface Mounting Bracket (Comes Standard)  SMBB Mounting Bracket Bail (For Chain Or Cable Mount)  SMBBQC Bracket Bail with 10' Quick Hang Cable Kit  SMBBQC20 Bracket Bail with 20' Quick Hang Cable Kit	Blank No Controls  ZOS Occupancy Sensor (On/Off)  Z221BL_ Wattstopper Programmable Photo/ Motion Multi-Voltage Sensor (high/low/off) <sup>(1)</sup> Z321BL_ Wattstopper Bluetoothenabled Programmable Photo/Motion Multi-Voltage Sensor	C6 6' Single Circuit Cord (Comes Standard)  C6(LVL) C6 With Integrated Dimming Leads  C10 10' Single Circuit Cord  C10(LVL) C10 With Integrated Dimming Leads  D6 6' Dual Circuit Cord	Blank No Options P(NEMA) Plug (Specify NEMA configuration)  F Fuse SDT(480V) 480V To 277V Step Down Transformer BAA Buy American Act Compliant
For I BT-8 WS-2	er - see height or more height ore deta S AC Dougla DMSW-L BTSW-L BTSW-L	Page 3 for for Douglas details on a for Enlighte ails on adva	more det s FMS sen advanced ed Rugged inced cont ries (o luetooth 1 luetooth 4 luetooth 8 s d Remote ghted Con	ails. sor: 40 fee controls. dized sens trols.  Zone Dim -Button W -Button W Control W nected & Control W	parately)  mmer /all Station /all Switch loT)		Safety Cable	ZOSMD 0-10V Dimming Microwave Occupancy Sensor  ZPC Photocell  ZIFC Douglas IFC Controller With Network Capabilities <sup>(2)</sup> ZFMS Douglas FMS Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities <sup>(3)</sup> ZENLO Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted One System <sup>(4)</sup> ZENLC Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted Connected System <sup>(4)</sup> ZENLI Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted Connected System <sup>(4)</sup> ZENLI Enlighted Ruggedized Sensor with Dimming/	10' Dual Circuit Cord	





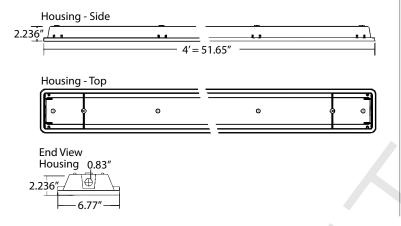
#### Performance Chart:

Catalog #	Lumens	Watts	LPW
NVL 4 F LW UV CFP 835	2292	18	127.3
NVL 4 F MD UV CFP 835	4259	34	125.3
NVL 4 F HI UV CFP 835	6572	55	119.5
NVL 4 F VH UV CFP 835	8059	66	122.1

Catalog #	Lumens	Watts	LPW
NVL 4 F LW UV CFP 840	2363	18	131.3
NVL 4 F MD UV CFP 840	4391	34	129.1
NVL 4 F HI UV CFP 840	6776	55	123.2
NVL 4 F VH UV CFP 840	8308	66	125.9

Catalog #	Lumens	Watts	LPW
NVL 4 F LW UV CFP 850	2434	18	135.2
NVL 4 F MD UV CFP 850	4523	34	133.0
NVL 4 F HI UV CFP 850	6979	55	126.9
NVL 4 F VH UV CFP 850	8557	66	129.7

#### **Schematic:**





SMBB - Surface Mount Bracket w/ Bracket Bail



#### Dimming Sensors (Z221B/Z321B)

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- · Rated for cold locations
- Parameters for Bluetooth-enabled Z321B adjustable via phone app iOS or Android
- Parameters for Z221B adjustable via wireless configuration tool (FSIR-100 sold separately)
- Three lenses available, tailored for the ideal detection area and mounting height:
  - -L2: 360° lens, maximum coverage 48', diameter from 8' height
  - -L3: 360° lens, maximum coverage 40′, diameter from 20′ height
  - -L7: 360° lens, maximum coverage 100′, diameter from 40′ height





1) The Wattstopper FSP sensor. 2) The phone app interface for the Z321B. 3) The FSIR-100 wireless configuration tool.

# **Douglas Lighting Controls, Inc.**: Intelligent Fixture Controller (IFC)

The NVLF can be equipped with the Douglas Bluetooth Intelligent Fixture Controller (IFC).



- 0-10V dimming with dim-to-off
- Bluetooth beacon for digital ceiling, IoT and location service strategies
- 150-foot clear line of sight, 50 feet through standard walls
- May be used with dual-channel, tunable white LED drivers providing auxiliary power and dim-to-off capability
- Commissioning through Douglas Lighting Controls, Inc. app from Apple app store
- Listed for emergency control when used on dedicated emergency power bus



# Douglas Lighting Controls, Inc.: High bay sensors

The NVLF can be equipped with the Douglas FMS sensor, which is designed for high bay applications.

With a max sensor height up to 40 feet, the FMS is ideal for applications like warehouses and manufacturing facilities. It can be installed for on/off control or bilevel light functionality. The daylight sensor provides additional savings by dimming the lights to work with the amount of natural available daylight.



- Configuration from the floor via smartphone app
- Bluetooth mesh network is created between devices for control over a group of Douglas sensors
- Occupancy and daylight sensing
- IP65-rated
- 0-10V dimmina
- 150 feet clear line of site, 50 feet through standard walls (distances may vary based on location and environment)

# CheckLight® Energy Management System

Douglas controls can be integrated with the CheckLight® Energy Management system. This system can help you uncover energy conversion opportunities, create conservation strategies, analyze lighting load inefficiencies, and make configuration changes from anywhere with Douglas' user-friendly interface. You can get measurements, reports, and control your system from a web-based application.

CheckLight® has the capability to look at different facilities within a portfolio and use data benchmarks to compare building performances.

- Find energy conservation opportunities
- Create energy saving strategies
- Analyze load inefficiencies
- Optimize energy management

# **Enlighted**: All-in-one sensors, upgradeable systems

Enlighted's IP65-rated Ruggedized Sensor is an all-in-one unit: task tuning, high-end trimming, daylight harvesting, and occupancy/vacancy detection. Max installation height is 50 feet.

Enlighted sensors come standard with the Enlighted One system (the "ZENLO" option). Enlighted Connected ("ZENLC") offers even more options. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Each system can be fully upgraded to the next tier in the future. So if you start with Enlighted One but want to add energy reporting or building management systems integration in the future, you can.

Enlighted Capabilities*	Enlighted One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
Motion and Switch Groups	✓	<b>✓</b>	✓
Daylight Harvesting	✓	<b>✓</b>	✓
Schedule Lighting		✓	✓
Energy Reporting & Optimization		<b>✓</b>	✓
Environment Data & Lighting Controls API		✓	✓
Building Management System Integration		✓	✓
Where & Space Applications			✓
Location & Occupancy APIs & Beaconing			✓
Future App & API Ready			✓

Note: Additional equipment required for ZENLC and ZENLI

## Real-time data analytics

Enlighted's control units compile data in real-time, which can be viewed via the Energy Manager. The Energy Manager is part of the Enlighted Connected and Enlighted IoT configurations.

- Real-time measurements and verification of energy savings
- Space analytics data can be compiled into motion trails and heat maps
- · Analyze traffic density and congestion in a space



Learn more about our available advanced controls options here:

www.lumenfocus.com/controls-overview

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