



Day-Brite / CFI Vaporlume LED sealed industrial V3W is a specialized wet location, IP rated product designed for use in both indoor and outdoor environments. It is a wet location listed, non-corrosive luminaire.

Project: _____
Location: _____
Cat.No: _____
Type: _____
Lumens: _____ Qty: _____
Notes: _____

Ordering guide

Example: V3W435L830-UNV-DIM

Family	Length	Lumens (Nominal)	Color Temp.	Voltage	Driver	Options
V3W			—	—	—	
V3W Vaporlume	2' 2'	27L 2700 lumens 35L 3500 lumens 43L 4300 lumens 51L^{2,3} 5100 lumens Other lumen packages may be ordered in increments of 100lm up to 5100 lumens.	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	UNV Universal Voltage, 120-277V 347¹ 347V	DIM 0-10V dimming SDIM⁴ Step dimming to 40% input power	MD360W⁷ Wet location occupancy sensor, (ON/OFF) MD360WD⁷ Wet location occupancy sensor, (ON/DIM) WHP Wide beam optic and prismatic acrylic lens (for garage applications) BSL10LST Factory wired Bodine integral emergency pack, nominal 1100 to 1400 lumens (4' unit only) IP67 Protection against effects of immersion GLR Fusing, fast blow (for UNV only) WSF Fusing (for 347V only) TR Torx T-10 tamper resistant stainless steel screws and latches SSL Stainless steel latches THB⁵ Top hub entry only (4' unit only) TEHB⁵ Top and end hub entry (4' unit only) NFZ NSF listed for Non-Food Zone and Splash Zone applications SWZCSH⁶ Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SNH200⁶ Integral EasySense occupancy & daylight sensor, with advanced SpaceWise type wireless grouping LFA³ Smooth frosted acrylic lens LPA Prismatic acrylic lens (Clear lens and end hubs are standard) BAC⁸ Meets the requirements of the Buy American Act of 1933 (BAA)
	4' 4'	35L 3500 lumens 43L 4300 lumens 51L 5100 lumens 70L 7000 lumens 80L 8000 lumens 100L^{1,2,3} 10000 lumens Other lumen packages may be ordered in increments of 100lm up to 10000 lumens.				

Footnotes

- 1 Not available with BSL10LST option
- 2 Not available in 3000K
- 3 Not available with WHP option
- 4 Not available in 2' 5100 lumen, 4' 8000 lumen, or 4' 10000 lumen
- 5 Not available with 8000 lumen and BSL10LST together
- 6 High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- 7 Not available with SWZCSH or SNH200 option.

- 8 Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- 9 Consult Signify to confirm whether specific accessories are BAA-compliant.

Accessories⁹ (order separately, see last page for details)

- **TBK** – Stainless steel top bracket kit (pair of brackets plus hardware)
- **V3WEBK** – Stainless steel end bracket kit (pair of brackets plus hardware)
- **V3WWBK** – Stainless steel wraparound bracket kit (pair of brackets)
- **V3WVBK** – Stainless steel mounting bracket with "V" hooks (pair of brackets plus hardware)
- **V3WSBK** – Stainless steel mounting bracket with surface bracket (pair of brackets plus hardware)
- **FKR-126** – Chain hanger set (requires TBK)
- **V3WCA2L** – 2' clear acrylic replacement lens
- **V3WFA2L** – 2' frosted acrylic replacement lens
- **V3WPA2L** – 2' prismatic acrylic replacement lens
- **V3WCA4L** – 4' clear acrylic replacement lens
- **V3WFA4L** – 4' frosted acrylic replacement lens
- **V3WPA4L** – 4' prismatic acrylic replacement lens

General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

V3W Vaporlume LED sealed industrial

2' and 4', up to 10,000 lumens

Features

- Ideally suited for use in refrigerated cold storage, industrial, parking garage, and canopy applications.
- Acceptable for outdoor as well as indoor installations.
- Can be surface mounted on ceilings or walls, or suspended via brackets, chain, or cables.
- Mounting brackets available, order separately.
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs.
- Ideal for cold applications (-20°C).
- IP65 rating standard. IP67 rating optional.
- NEMA 4X rated with LPA prismatic acrylic lens.
- NSF Certified option for Non-Food Zone/ Splash Zone installations.
- Battery backup 1100 to 1400 lumens nominal in EM mode.
- WHP wide optic is an acrylic optic factory installed on the LED arrays, along with a prismatic acrylic lens which provide compliance to DLC requirements for parking garage luminaires.
- Luminaire lens tested to IK08 impact standards.
- 5 Year Limited Warranty, www.signify.com/warranties

Construction/Finish

- Smooth exterior surface for easy cleaning.
- White one piece, molded fiberglass reinforced polyester body. No rusting, no oxidation, and no corrosion.
- Standard lens is clear acrylic.
- Optional frosted (LFA) lens designed specifically to further reduce pixilated glare from LEDs.
- Continuous compressible gasket provides tight seal between plastic enclosure and luminaire body.
- Plastic cam action latches are standard. Stainless steel latches are optional.
- Optional tamper resistant latches available.
- Two gasketed threaded (½" trade size) wet location hubs installed on ends.
- Optional hubs may be ordered for top entry.

Electrical

- Dimming to 1% on 0-10V controls standard (5% dimming for 10000 lumen version). Step dim (SDIM) option available, 100/40% levels.
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Available motion sensor further increases energy savings in areas where occupancy is not continuous.

Labels

- cETLus listed to UL 1598 standards. Suitable for use in wet locations.

SNH200 EasySense

- Philips field apps allow programming of occupancy & daylight sensing parameters and fine-tuning of light levels during installation. It can also be used for grouping of fixtures.
- Download "Philips field apps" from the Google Play Store.
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>.
- The app works on certain Android phones with NFC or IR. See Recommended Phones and the EasySense App User Manual in the download section at <http://www.usa.lighting.philips.com/products/lighting-components/easysense> and follow the "View Downloads" link to register for access to the download area. Navigate to Connected-Lighting-Components and then Philips-EasySense-Sensors to find downloads.

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCSH and an evolution of SpaceWise)

- SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for

setup.

- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
 - UID8451/10 wireless dimmer switch
 - SWS200 wireless scene switch
 - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
 - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
 - LCN3110/05 battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
 - LCN3120/05 battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Ambient Temperature Data

Configuration	Ambient
V3W251L	-20°C to 25°C
V3W470L	-20°C to 30°C
V3W480L UNV	-20°C to 30°C
V3W480L 347V	-20°C to 25°C
V3W4100L UNV	-20°C to 30°C
V3W4100L 347V	-20°C to 25°C
BSL10LST option	Minimum 0°C
All others	-20°C to 40°C

V3W Vaporlume LED sealed industrial

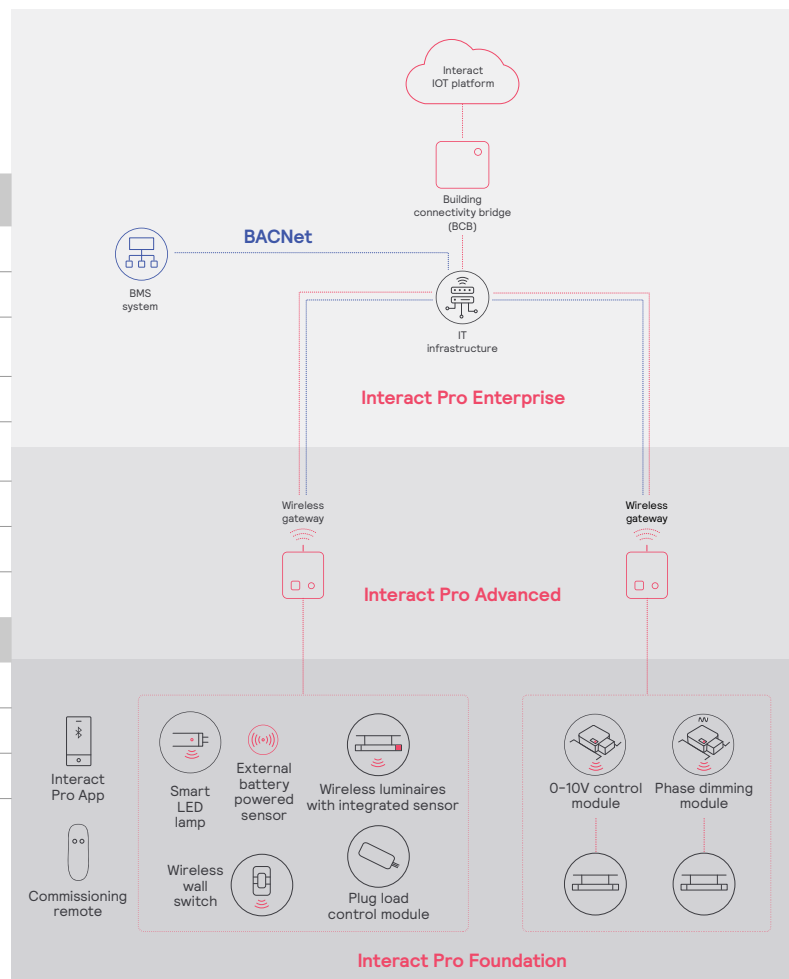
2' and 4', up to 10,000 lumens

Interact Pro scalable system			
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

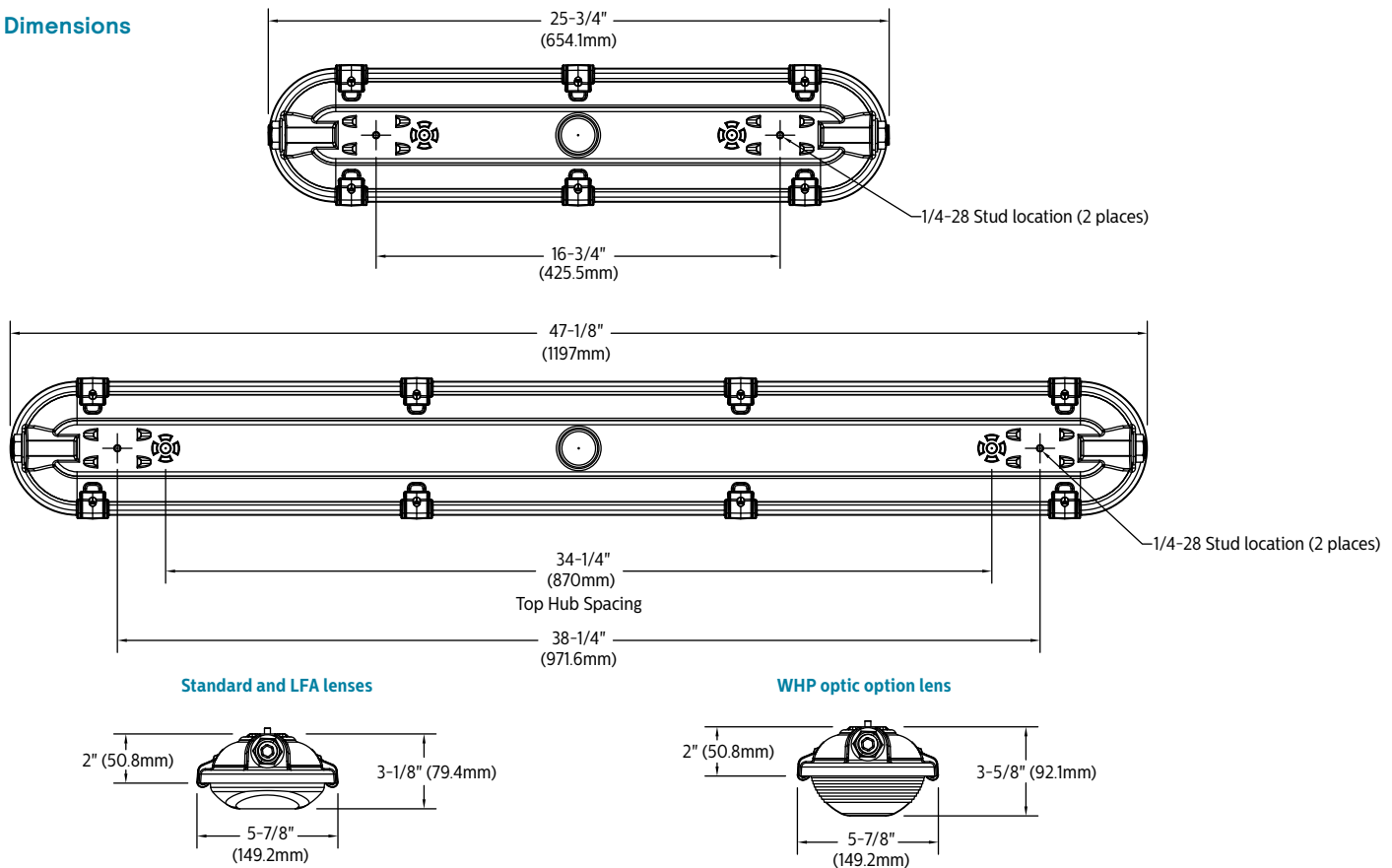
System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16



V3W Vaporlume LED sealed industrial

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Dimensions



Photometry

Vaporlume LED sealed industrial, frosted lens (LFA)

LER - 126

Catalog No.	V3W451L840-UNV-DIM-LFA
Test No.	38432
S/MH	1.3
Lamp Type	LED
Lumens/Lamp	4355
Input Watts	35

Comparative yearly lighting energy cost per 1000 lumens - **\$1.90** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1418	1418	1418	1418
5	1388	1415	1421	1415
15	1335	1365	1376	1365
25	1234	1266	1281	1266
35	1090	1128	1148	1128
45	914	958	983	958
55	711	761	800	761
65	459	536	583	536
75	241	318	366	318
85	56	141	191	141
95	9	70	118	70
105	3	35	75	35
115	1	10	37	10
125	0	0	9	0
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1101	25.3
0-40	1804	41.4
0-60	3219	73.9
0-90	4226	97.0
0-180	4355	100.0

Average Luminance

Angle	End	45°	Cross
45	7934	7239	7137
55	7534	6658	6632
65	6482	5778	5840
75	5351	4643	4817
85	3098	3349	3831

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	109	109
1	107	102	98	104	100	95	95	91
2	97	89	81	94	86	80	82	77
3	88	78	69	86	76	68	72	66
4	81	69	60	78	67	59	64	57
5	74	61	52	72	60	51	57	50
6	69	55	46	66	54	45	52	44
7	64	50	41	62	49	40	47	39
8	59	45	37	57	45	36	43	36
9	55	42	33	54	41	33	40	32
10	52	38	30	50	38	30	37	30

V3W Vaporlume LED sealed industrial

2' and 4', up to 10,000 lumens

Vaporlume LED sealed industrial, clear lens

LER – 145

Catalog No.	V3W451L840-UNV-DIM	Candlepower					Light Distribution			Average Luminance			
Test No.	38433	Angle	End	45	Cross	Back-45	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	1.3	0	1743	1743	1743	1743	0-30	1369	27.3	45	10476	8931	11396
Lamp Type	LED	5	1705	1732	1740	1732	0-40	2254	44.9	55	9990	11656	6576
Lumens/Lamp	5025	15	1660	1686	1697	1686	0-60	4045	80.5	65	8631	4967	6585
Input Watts	35	25	1565	1585	1589	1585	0-90	5017	99.8	75	5664	4538	3920
		35	1413	1400	1436	1400	0-180	5025	100.0	85	2317	1184	1364
		45	1206	1182	1570	1182	Coefficients of Utilization						
		55	943	1333	793	1333	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
		65	611	461	657	461	pcc	80			70		
		75	255	311	298	311	pw	70	50	30	70	50	30
		85	42	50	68	50	RCR						
		95	9	3	3	3	0	119	119	119	116	116	116
		105	3	2	1	2	1	109	104	100	106	102	98
		115	0	0	1	0	2	99	91	84	97	89	83
		125	0	0	0	0	3	90	80	72	88	78	71
		135	0	0	0	0	4	83	71	62	80	69	61
		145	0	0	0	0	5	76	63	54	74	62	54
		155	0	0	0	0	6	70	57	48	68	56	47
		165	0	0	0	0	7	65	52	43	63	51	42
		175	0	0	0	0	8	61	47	38	59	46	38
							9	57	43	35	55	42	35
							10	53	40	32	52	39	32

Vaporlume LED sealed industrial, prismatic lens (WHP)

LER – 129

Catalog No.		Candlepower					Light Distribution			Average Luminance			
Test No.	38434	Angle	End	45	Cross	Back-45	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
S/MH	3.3	0	391	391	391	391	0-30	357	8.1	45	2558	3749	6064
Lamp Type	LED	5	387	393	398	393	0-40	654	14.8	55	2525	6893	11103
Lumens/Lamp	4434	15	381	410	444	410	0-60	1878	42.4	65	2570	11338	10860
Input Watts	35	25	366	442	500	442	0-90	4094	92.4	75	3457	11388	9629
Comparative yearly lighting energy cost per 1000 lumens – \$1.85 based on 3000 hrs. and \$.08 pwr KWH.		35	340	479	595	479	0-180	4434	100.0	85	3138	8864	7464
		45	298	534	913	534	Coefficients of Utilization						
		55	243	868	1503	868	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
		65	187	1199	1261	1199	pcc	80			70		
		75	162	937	899	937	pw	70	50	30	70	50	30
		85	63	499	506	499	RCR						
		95	13	196	227	196	0	117	117	117	114	114	114
		105	6	94	136	94	1	100	92	86	96	89	83
		115	3	41	79	41	2	87	75	66	84	73	64
		125	1	14	43	14	3	77	63	52	74	61	50
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		135	0	1	15	1	4	69	54	42	66	52	41
		145	0	0	0	0	5	63	46	35	60	45	34
		155	0	0	0	0	6	57	41	30	54	39	29
		165	0	0	0	0	7	52	36	26	50	35	25
		175	0	0	0	0	8	48	33	23	46	32	22
		Photometric values based on test performed in compliance with LM-79.											

Photometric Test List

Catalog No.	Test No.	Delivered Lumens	Input Watts	Efficacy	Catalog No.	Test No.	Delivered Lumens	Input Watts	Efficacy
V3W227L840-UNV-DIM	38371	2620	19	137	V3W443L840-UNV-DIM	38438	4222	29	147
V3W227L840-UNV-DIM-LFA	38370	2273	19	119	V3W443L840-UNV-DIM-LFA	38439	3643	29	127
V3W227L840-UNV-DIM-WHP	38372	2374	19	124	V3W443L840-UNV-DIM-WHP	38437	3751	29	131
V3W235L840-UNV-DIM	38368	3386	26	133	V3W451L840-UNV-DIM	38433	5025	35	145
V3W235L840-UNV-DIM-LFA	38369	2842	26	111	V3W451L840-UNV-DIM-LFA	38432	4355	35	126
V3W235L840-UNV-DIM-WHP	38367	3124	26	122	V3W451L840-UNV-DIM-WHP	38434	4434	35	129
V3W243L840-UNV-DIM	38363	4273	33	129	V3W470L840-UNV-DIM	38430	7006	50	141
V3W243L840-UNV-DIM-LFA	38362	3585	33	109	V3W470L840-UNV-DIM-LFA	38431	6074	50	122
V3W243L840-UNV-DIM-WHP	38364	3834	33	116	V3W470L840-UNV-DIM-WHP	38429	6223	50	125
V3W251L840-UNV-DIM	38444	5146	39	133	V3W480L840-UNV-DIM	38410	7762	56	138
V3W251L840-UNV-DIM-LFA	38445	4381	39	113	V3W480L840-UNV-DIM-LFA	38411	6766	56	120
V3W435L840-UNV-DIM	38441	3368	23	147	V3W480L840-UNV-DIM-WHP	38426	6874	56	122
V3W435L840-UNV-DIM-LFA	38440	2905	23	127	V3W4100L840-UNV-DIM	38413	10581	74	143
V3W435L840-UNV-DIM-WHP	38442	2997	23	131	V3W4100L840-UNV-DIM-LFA	38412	9188	74	124

V3W Vaporlume LED sealed industrial

2' and 4', up to 10,000 lumens

Accessories



Accessory Catalog Code	Description
TBK	Stainless steel top bracket kit (pair of brackets plus hardware)
V3WEBK	Stainless steel end bracket kit (pair of brackets plus hardware)
V3WWBK	Stainless steel wraparound bracket kit (pair of brackets)
V3WVBK	Stainless steel mounting bracket with "V" hooks (pair of brackets plus hardware)
V3WSBK	Stainless steel mounting bracket with surface bracket (pair of brackets plus hardware)
FKR-126	Chain hanger set (requires TBK) Includes two 5' heavy duty link chains with "V" hooks.
V3WCA2L	2' clear acrylic replacement lens
V3WFA2L	2' frosted acrylic replacement lens
V3WPA2L	2' prismatic acrylic replacement lens
V3WCA4L	4' clear acrylic replacement lens
V3WFA4L	4' frosted acrylic replacement lens
V3WPA4L	4' prismatic acrylic replacement lens



Standard clear lens



LFA - smooth frosted acrylic lens



WHP - Wide beam optic and prismatic acrylic lens



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