

**PHILIPS**  
**Day-Brite**  
**CFI**

Industrial

Vaporlume LED

2' and 4' sealed industrial,  
Up to 10,000 lumens



Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

The Philips Day-Brite / Philips 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.

**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 <sup>2,3</sup> 5100 lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	UNV Universal Voltage, 120-277V 347 <sup>1</sup> 347V	DIM 0-10V dimming SDIM <sup>4</sup> Step dimming to 40% input power	MD360W Wet location occupancy sensor, (ON/OFF) MD360WD Wet location occupancy sensor, (ON/DIM) WHP Wide beam optic and prismatic acrylic lens (for garage applications) BSL10LST Factory wired Philips 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 LFA <sup>3</sup> Smooth frosted acrylic lens SSL Stainless steel latches THB <sup>5</sup> Top and end hub entry (4' unit only) TEHB <sup>5</sup> NSF listed for Non-Food Zone and Splash Zone applications NFZ
	4 4'	35L 3500 lumens 43L 4300 lumens 51L 5100 lumens 70L 7000 lumens 80L 8000 lumens 100L <sup>1,2,3</sup> 10000 lumens				(Clear lens and end hubs are standard)

**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

**Accessories (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.
- 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.
- Vaporlume LED luminaires are Designlights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>)
- Five year manufacturer's limited warranty. Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.

## 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 (1/2" 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.

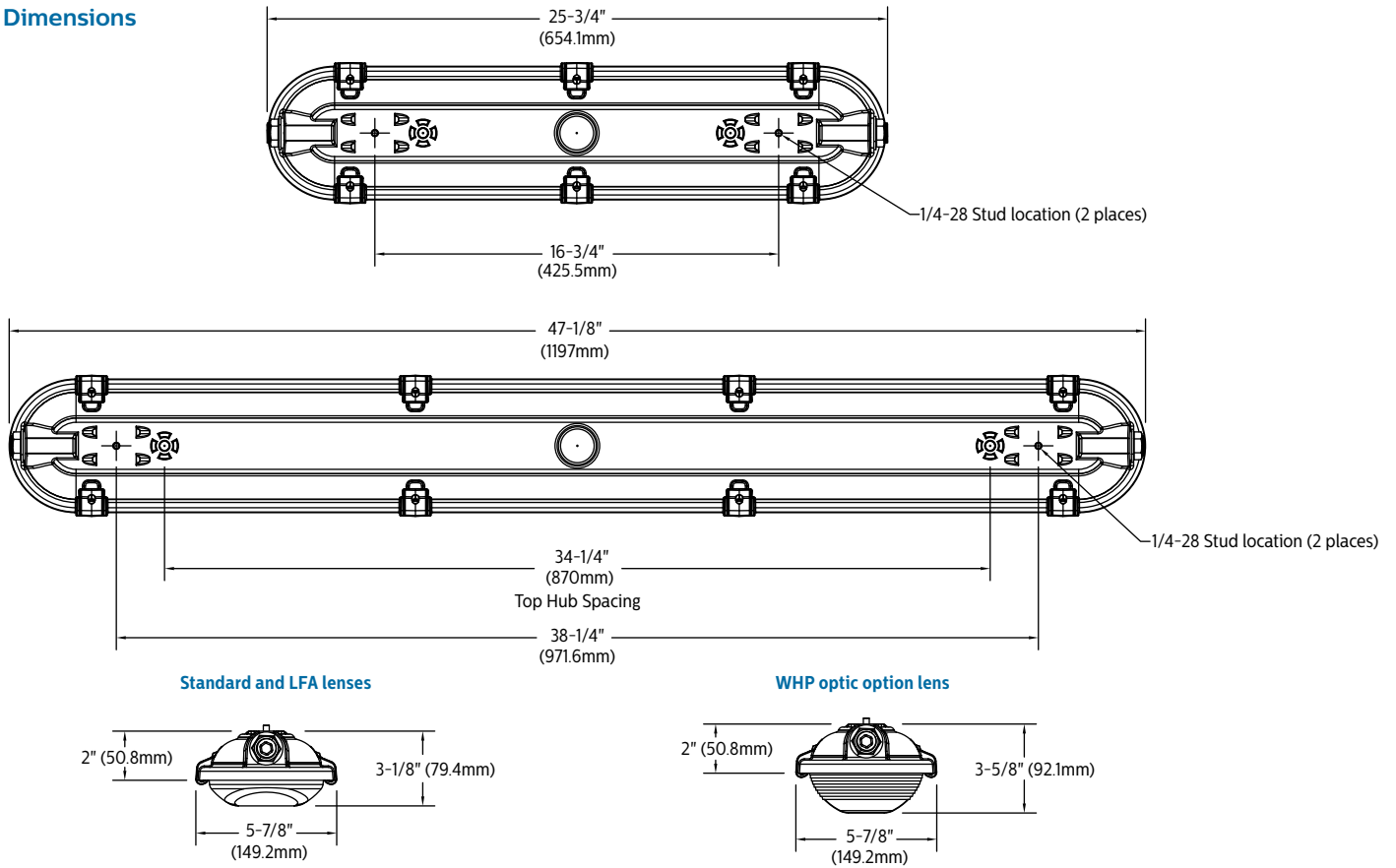
## Ambient Temperature Data

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

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## Dimensions



## Photometry

### Vaporlume LED sealed industrial, frosted lens (LFA)

### LER - 126

<b>Catalog No.</b>	V3W451L840-UNV-DIM-LFA	<b>Candlepower</b>				<b>Light Distribution</b>			<b>Average Luminance</b>				
<b>Test No.</b>	38432	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Back-45</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>
<b>S/MH</b>	1.3	0	1418	1418	1418	1418	0-30	1101	25.3	45	7934	7239	7137
<b>Lamp Type</b>	LED	5	1388	1415	1421	1415	0-40	1804	41.4	55	7534	6658	6632
<b>Lumens/Lamp</b>	4355	15	1335	1365	1376	1365	0-60	3219	73.9	65	6482	5778	5840
<b>Input Watts</b>	35	25	1234	1266	1281	1266	0-90	4226	97.0	75	5351	4643	4817
		35	1090	1128	1148	1128	0-180	4355	100.0	85	3098	3349	3831
		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							

<b>Comparative yearly lighting energy cost per 1000 lumens - \$1.90 based on 3000 hrs. and \$.08 pwr KWH.</b>												
The photometric results were obtained in the Philips 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.												

<b>Coefficients of Utilization</b>														
<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc-0.20)</b>														
<b>pcc</b>	<b>80</b>						<b>70</b>						<b>50</b>	
<b>pw</b>	70	50	30	70	50	30	70	50	30	50	30			
<b>RCR</b>														
0	118	118	118	115	115	115	109	109	109	109	109			
1	107	102	98	104	100	95	95	91	91	91	91			
2	97	89	81	94	86	80	82	77	77	77	77			
3	88	78	69	86	76	68	72	66	66	66	66			
4	81	69	60	78	67	59	64	57	57	57	57			
5	74	61	52	72	60	51	57	50	50	50	50			
6	69	55	46	66	54	45	52	44	44	44	44			
7	64	50	41	62	49	40	47	39	39	39	39			
8	59	45	37	57	45	36	43	36	36	36	36			
9	55	42	33	54	41	33	40	32	32	32	32			
10	52	38	30	50	38	30	37	30	30	30	30			

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## Vaporlume LED sealed industrial, clear lens

LER – 145

<b>Catalog No.</b>	V3W451L840-UNV-DIM	<b>Candlepower</b>					<b>Light Distribution</b>			<b>Average Luminance</b>					
<b>Test No.</b>	38433	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Back-45</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>		
<b>S/MH</b>	1.3	0	1743	1743	1743	1743	0-30	1369	27.3	45	10476	8931	11396		
<b>Lamp Type</b>	LED	5	1705	1732	1740	1732	0-40	2254	44.9	55	9990	11656	6576		
<b>Lumens/Lamp</b>	5025	15	1660	1686	1697	1686	0-60	4045	80.5	65	8631	4967	6585		
<b>Input Watts</b>	35	25	1565	1585	1589	1585	0-90	5017	99.8	75	5664	4538	3920		
Comparative yearly lighting energy cost per 1000 lumens – <b>\$1.64</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips 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.		35	1413	1400	1436	1400	0-180	5025	100.0	85	2317	1184	1364		
		45	1206	1182	1570	1182	<b>Coefficients of Utilization</b>								
		55	943	1333	793	1333	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>								
		65	611	461	657	461	<b>pcc</b>	<b>80</b>		<b>70</b>			<b>50</b>		
		75	255	311	298	311	<b>pw</b>	70	50	30	70	50	30	50	30
		85	42	50	68	50	<b>RCR</b>								
		95	9	3	3	3	0	119	119	119	116	116	116	111	111
		105	3	2	1	2	1	109	104	100	106	102	98	98	95
		115	0	0	1	0	2	99	91	84	97	89	83	86	80
		125	0	0	0	0	0	90	80	72	88	78	71	75	69
135	0	0	0	0	0	83	71	62	80	69	61	67	60		
145	0	0	0	0	0	76	63	54	74	62	54	60	53		
155	0	0	0	0	0	70	57	48	68	56	47	54	47		
165	0	0	0	0	0	65	52	43	63	51	42	49	42		
175	0	0	0	0	0	61	47	38	59	46	38	45	38		
						57	43	35	55	42	35	41	34		
						53	40	32	52	39	32	38	31		

## Vaporlume LED sealed industrial, prismatic lens (WHP)

LER – 129

<b>Catalog No.</b>	V3W451L840-UNV-DIM-WHP	<b>Candlepower</b>					<b>Light Distribution</b>			<b>Average Luminance</b>					
<b>Test No.</b>	38434	<b>Angle</b>	<b>End</b>	<b>45</b>	<b>Cross</b>	<b>Back-45</b>	<b>Degrees</b>	<b>Lumens</b>	<b>% Luminaire</b>	<b>Angle</b>	<b>End</b>	<b>45°</b>	<b>Cross</b>		
<b>S/MH</b>	3.3	0	391	391	391	391	0-30	357	8.1	45	2558	3749	6064		
<b>Lamp Type</b>	LED	5	387	393	398	393	0-40	654	14.8	55	2525	6893	11103		
<b>Lumens/Lamp</b>	4434	15	381	410	444	410	0-60	1878	42.4	65	2570	11338	10860		
<b>Input Watts</b>	35	25	366	442	500	442	0-90	4094	92.4	75	3457	11388	9629		
Comparative yearly lighting energy cost per 1000 lumens – <b>\$1.85</b> based on 3000 hrs. and \$.08 pwr KWH.  The photometric results were obtained in the Philips 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.		35	340	479	595	479	0-180	4434	100.0	85	3138	8864	7464		
		45	298	534	913	534	<b>Coefficients of Utilization</b>								
		55	243	868	1503	868	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>								
		65	187	1199	1261	1199	<b>pcc</b>	<b>80</b>		<b>70</b>			<b>50</b>		
		75	162	937	899	937	<b>pw</b>	70	50	30	70	50	30	50	30
		85	63	499	506	499	<b>RCR</b>								
		95	13	196	227	196	0	117	117	117	114	114	114	107	107
		105	6	94	136	94	1	100	92	86	96	89	83	83	78
		115	3	41	79	41	2	87	75	66	84	73	64	68	60
		125	1	14	43	14	3	77	63	52	74	61	50	56	47
135	0	1	15	1	4	69	54	42	66	52	41	48	39		
145	0	0	0	0	5	63	46	35	60	45	34	42	32		
155	0	0	0	0	6	57	41	30	54	39	29	37	28		
165	0	0	0	0	7	52	36	26	50	35	25	33	24		
175	0	0	0	0	8	48	33	23	46	32	22	29	21		
					9	45	30	20	43	29	20	27	19		
					10	42	27	18	40	26	18	25	17		

## 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

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

## Accessories



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