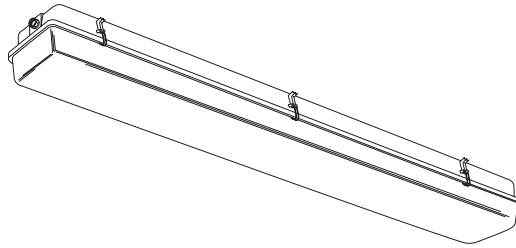


PHILIPS Day-Brite CFI

Industrial

Vaporlume LED V2

Specification Industrial, 4'
3500, 4300, 5100, or 7000lm



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

The Philips Day-Brite / Philips CFI Vaporlume LED Wet Location Industrial V2 is designed for both indoor and outdoor applications. It is designed with an LED light source, enabling it to easily replace fluorescent sources due to its reliable performance in cold conditions with the added benefit of energy savings.

Ordering guide

Example: V2WAE51L840-4-UNV-MD360W

Family	Listing	Lens	Hubs Installed	Source	Color	Length	Voltage	Dimming	Options
V2	W		E						
V2 Fiberglass Specification Industrial	W Wet Location	A DR Acrylic P Polycarbonate L Enhanced LED Acrylic	E Ends only	35L 3500 nominal lumens 43L 4300 nominal lumens 51L 5100 nominal lumens (25°C ambient) 51LH 5100 nominal lumens (-35°C to 40°C) 70L 7000 nominal lumens	850 80 CRI, 5000K 840 80 CRI, 4000K 835 80 CRI, 3500K	4 4'	UNV Universal Voltage, 120-277 volt 347V 347 volt	blank SDIM ³ 0-10v 100/40 step dim	MD360W Wet location occupancy sensor, external WHP Wide Beam Optic EMLED ² Integral Emergency IP67 Protection against effect of immersion

1 All 347V models available only for (-20°C to 25°C) ambient. 347V not available for use with 51LH or SDIM options.

2 EMLED option not available on 347V models.

3 Step dim (SDIM) option not available on 51LH.

Accessories (order separately)

- **TBK** – Stainless Steel Top Bracket Kit (pair of brackets plus hardware)
- **EBK** – Stainless Steel End Bracket Kit (pair of brackets plus hardware)
- **WBK** – Stainless Steel Wraparound Bracket Kit (pair of brackets)
- **FKR-126** – Chain Hanger Set (requires TBK)



V2 Vaporlume LED Specification Industrial

4', 3500, 4300, 5100, or 7000lm

Application

- 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 (wall/ceiling) or suspended mounted unless otherwise specified.
- Wet Location – Areas of high humidity, water vapor, rain, incidental water spray, or other non-corrosive or nonflammable liquid.
- Excellent for applications such as garages, stairwells, storage areas, horizontal shelf-mount refrigerated cases, and cold storage.
- Mounting brackets available, order separately.
- IP65 rating standard. IP67 configuration available.
- LED sources provide excellent low temperature performance. This product can replace a fluorescent model in cold environments with significant energy savings.
- 51LH model listed for use in -35°C to 40°C ambient. 50,000 hour L70 lumen maintenance.
- 35L/43L models listed for use in -20°C to 40°C ambient. 100,000 hour L70 lumen maintenance.
- 51L/70L models listed for use in -20°C to 25°C ambient. L70 lumen maintenance is 100,000 hours for 51L model, and 50,000 hours for 70L.
- NSF Certified for Non-Food Zone Installations.
- EMLED 1100lm nominal in DC mode
- WHP wide optic is an acrylic lens factory installed on the LED arrays, provides compliance to DLC requirements for parking garage luminaires
- Vaporlume LED luminaires are Designlights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).

Construction/Finish

- Non-conductive, non-corrosive housing.
- Smooth exterior surface for easy cleaning.
- White one piece, molded fiberglass reinforced polyester body. No rusting, no oxidation, and no corrosion.
- Standard acrylic lens (A) is stippled sheet of .130" nominal thickness.
- Optional LED lens (L) designed specifically to further reduce pixilated glare from LED's. Linear rib profile.
- Optional polycarbonate lens (P) will not be yellowed by LED sources because they do not produce UV.
- Continuous compressible closed cell gasket provides tight seal between plastic enclosure and luminaire body.
- Stainless steel cam action latches.
- Lighting channel painted after fabrication with polyester powder coating.
- Two gasketed threaded (½" trade size) wet location hubs installed on ends.

Electrical

- High efficiency LEDs provide up to 100,000 hour rated life (L70, defined as 70% lumen maintenance @ rated maximum ambient).
- Dimming to 5% on 0–10V controls standard. Step dim (SDIM) option available, 100/40% levels.
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Combinations are available providing as much as 117 delivered lumens per Watt.
- Nominal lumen packages range from 3,500 to 7,000 lumens, providing flexibility to optimize light levels for a specific application.
- LED sources provide full illumination in low temperature applications, unlike fluorescent sources that provide reduced light levels in very cold environments.
- LED sources can be frequently switched with no negative impact on life.
- Minimum 80 CRI provides smooth color rendering that rivals or exceeds performance of fluorescent lamps.

- Light output from the luminaire contains no infrared or ultraviolet energy, so the light won't heat or fade the objects being lit.
- Available motion sensor further increases energy savings in areas where occupancy is not continuous.

Labels

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

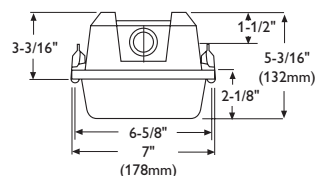
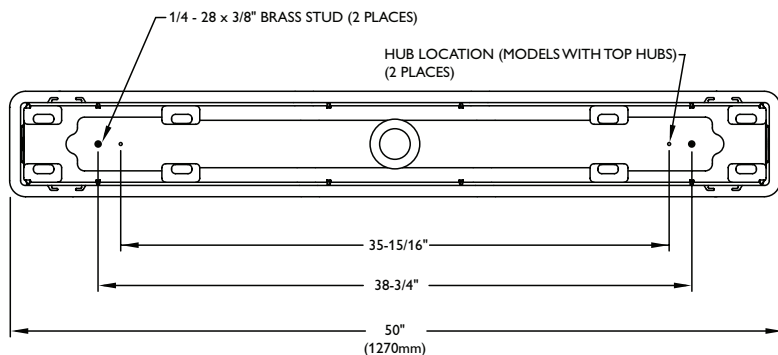
Five year luminaire limited warranty including LED boards and driver.

Certain luminaire components may be adversely affected by contaminants. If sulfur, chlorine, or petroleum based solutions, or other contaminants will be in the area of operation, please consult factory as damage caused by these contaminants are not covered under our limited warranty.

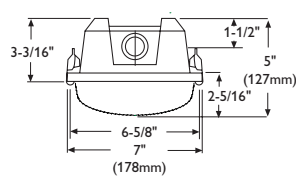
V2 Vaporlume LED Specification Industrial

4', 3500, 4300, 5100, or 7000lm

Dimensions



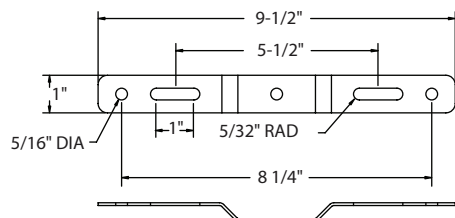
Shallow acrylic (A) and polycarbonate (P) lens



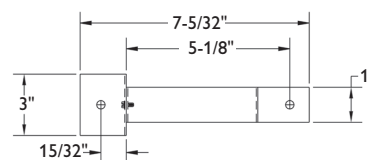
Enhanced LED acrylic lens (L)

Mounting Brackets

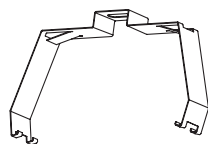
TBK - Top Mounting Bracket



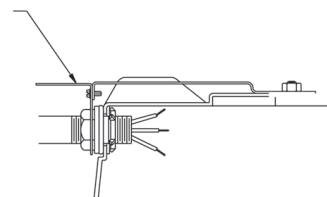
EBK - End Mounting Bracket



WBK - Wraparound Mounting Bracket



EBK - End Mounting Bracket



V2 Vaporlume LED Specification Industrial

4', 3500, 4300, 5100, or 7000lm

4' LED Vaporlume, 3500 nominal lumens LER-117

Catalog No.	V2WAE35L840-4	Candlepower					Coefficients of Utilization									
		Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
Test No.	32643	0	1250	1250	1250	1250	pcc	80			70			50		
S/MH	1.2	5	1244	1239	1243	1239	pw	70	50	30	70	50	30	50	30	
Source	LED	15	1204	1201	1199	1201	RCR									
Input Watts	32	25	1112	1114	1106	1114	0	117	117	117	114	114	114	110	110	
Delivered Lumens	3699	35	966	964	949	964	1	108	103	97	105	100	95	94	92	
Comparative yearly lighting energy cost per 1000 lumens – \$2.03 based on 3000 hrs. and \$.08 pwr KWH.		45	778	777	841	777	2	97	89	81	94	86	80	82	77	
		55	576	685	708	685	3	89	78	69	85	76	68	72	66	
		65	371	509	472	509	4	81	68	59	79	68	58	65	56	
		75	193	250	271	250	5	75	61	53	71	59	52	57	50	
		85	49	91	96	91	6	68	55	46	67	54	46	52	45	
Photometric values based upon tests performed in compliance with LM-79.		95	19	36	28	36	7	64	50	40	61	48	40	46	40	
		105	17	30	20	30	8	58	46	36	57	45	36	42	35	
		115	10	28	20	28	9	56	41	34	54	40	33	40	33	
		125	4	19	19	19	10	52	39	30	51	38	30	36	29	
		135	2	10	17	10	Light Distribution									
		145	1	3	9	3	Degrees					Lumens % Luminaire				
		155	1	1	2	1	0-30	969	26.1	45	5069	4222	4360			
		165	1	1	1	1	0-40	1569	42.3	55	4543	4228	4105			
		175	1	1	1	1	0-60	2772	74.8	65	865	3770	3222			
							0-90	3602	97.1	75	3096	2402	2333			
							90-120	81	2.2	85	1821	1312	1164			
							90-130	95	2.6							
							90-150	105	2.8							
							90-180	106	2.9							
							0-180	3708	100.0							

4' LED Vaporlume, 4300 nominal lumens LER-116

Catalog No.	V2WAE43L840-4	Candlepower					Coefficients of Utilization									
		Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
Test No.	32642	0	1496	1496	1496	1496	pcc	80			70			50		
S/MH	1.2	5	1491	1487	1485	1487	pw	70	50	30	70	50	30	50	30	
Source	LED	15	1443	1439	1441	1439	RCR									
Input Watts	38	25	1332	1338	1323	1338	0	117	117	117	114	114	114	109	109	
Delivered Lumens	4431	35	1158	1151	1132	1151	1	108	103	97	104	100	95	94	92	
Comparative yearly lighting energy cost per 1000 lumens – \$2.07 based on 3000 hrs. and \$.08 pwr KWH.		45	933	926	1000	926	2	97	89	81	94	86	80	82	77	
		55	688	819	854	819	3	89	78	69	85	76	68	72	66	
		65	444	611	566	611	4	81	68	59	79	67	58	65	56	
		75	231	300	324	300	5	75	61	53	71	59	52	57	50	
		85	58	110	118	110	6	68	55	46	67	54	46	52	45	
Photometric values based upon tests performed in compliance with LM-79.		95	23	43	35	43	7	64	50	40	61	48	40	46	40	
		105	20	36	25	36	8	58	46	36	57	45	36	42	35	
		115	12	34	24	34	9	56	41	34	54	40	33	40	33	
		125	5	24	24	24	10	52	39	30	51	38	30	36	29	
		135	3	12	21	12	Light Distribution									
		145	2	4	11	4	Degrees					Lumens % Luminaire				
		155	1	1	3	1	0-30	1161	26.1	45	6078	5034	5182			
		165	1	1	1	1	0-40	1880	42.3	55	5434	5059	4955			
		175	1	1	1	1	0-60	3318	74.7	65	4626	4531	3867			
							0-90	4313	97.1	75	3704	2883	2786			
							90-120	99	2.2	85	2173	1578	1433			
							90-130	116	2.6							
							90-150	128	2.9							
							90-180	129	2.9							
							0-180	4442	100.0							

V2 Vaporlume LED Specification Industrial

4', 3500, 4300, 5100, or 7000lm

4' LED Vaporlume, 5100 nominal lumens LER-111

Catalog No.	V2WAE51L840-4
Test No.	32640
S/MH	1.2
Source	LED
Input Watts	46
Delivered Lumens	5129

Comparative yearly lighting energy cost per 1000 lumens – **\$2.16** based on 3000 hrs. and \$.08 pwr KWH.

Photometric values based upon tests performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1729	1729	1729	1729
5	1722	1716	1709	1716
15	1666	1651	1632	1651
25	1542	1523	1494	1523
35	1340	1307	1250	1307
45	1091	1039	1117	1039
55	817	909	884	909
65	533	670	574	670
75	280	309	286	309
85	75	107	86	107
95	26	47	34	47
105	24	42	30	42
115	14	39	29	39
125	6	28	28	28
135	4	16	24	16
145	3	5	12	5
155	2	2	3	2
165	2	2	2	2
175	2	2	2	2

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	117	117	117	114	114	114	110	110
1	108	103	97	104	100	95	94	92
2	97	89	81	94	86	80	82	77
3	89	78	69	85	76	68	72	66
4	81	68	59	79	68	58	65	56
5	75	61	53	71	59	52	57	50
6	68	55	46	67	54	46	52	45
7	64	50	40	61	48	40	46	40
8	58	46	36	57	45	36	42	35
9	56	41	34	54	40	33	40	33
10	52	39	30	51	38	30	36	29

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1344	26.1
0-40	2176	42.3
0-60	3842	74.7
0-90	4992	97.1
90-120	114	2.2
90-130	133	2.6
90-150	148	2.9
90-180	149	2.9
0-180	5141	100.0

Average Luminance

Angle	End	45°	Cross
45	7103	5648	5790
55	6447	5616	5126
65	5552	4964	3915
75	4486	2974	2465
85	2784	1530	1043

4' LED Vaporlume, 7000 nominal lumens LER-107

Catalog No.	V2WAE70L840-4
Test No.	32614
S/MH	1.2
Source	LED
Input Watts	65
Delivered Lumens	6985

Comparative yearly lighting energy cost per 1000 lumens – **\$2.24** based on 3000 hrs. and \$.08 pwr KWH.

Photometric values based upon tests performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	2357	2357	2357	2357
5	2351	2342	2345	2342
15	2274	2271	2270	2271
25	2101	2105	2089	2105
35	1818	1814	1784	1814
45	1467	1462	1586	1462
55	1085	1302	1345	1302
65	701	959	891	959
75	365	469	503	469
85	92	170	176	170
95	36	67	53	67
105	33	57	39	57
115	19	53	39	53
125	8	38	38	38
135	4	20	33	20
145	3	6	18	6
155	2	2	4	2
165	2	2	2	2
175	2	2	2	2

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	117	117	117	114	114	114	109	109
1	108	103	97	105	100	95	94	92
2	97	89	81	94	86	80	82	77
3	89	78	69	85	76	68	72	66
4	81	68	59	79	67	58	65	56
5	75	61	52	71	59	52	57	50
6	68	55	46	67	54	46	52	45
7	64	50	40	61	48	40	46	40
8	58	46	36	57	45	36	42	35
9	56	41	34	54	40	33	40	33
10	52	39	30	51	38	30	36	29

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1830	26.1
0-40	2961	42.3
0-60	5230	74.7
0-90	6798	97.1
90-120	156	2.2
90-130	183	2.6
90-150	203	2.9
90-180	205	2.9
0-180	7003	100.0

Average Luminance

Angle	End	45°	Cross
45	9554	7946	8219
55	8566	8043	7802
65	7304	7108	6080
75	5848	4516	4329
85	3444	2433	2142

V2 Vaporlume LED Specification Industrial

4', 3500, 4300, 5100, or 7000lm

Energy Data

Model	Initial Delivered Lumens @ 25°C Ambient	Input Power	Lumens per Watt	Application notes
V2WAE35L840-4-UNV	3,699	32W	117 LPW	- Slightly less than 2 lamp F32T8 at room temperature, 35% energy savings. - Equivalent to 2 lamp F32T8 in refrigerator (40°F), 35% energy savings.
V2WAE43L840-4-UNV	4,431	38W	116 LPW	- Equivalent to 2 lamp F32T8 at room temperature, 15% energy savings. - Double the output of 2 lamp F32T8 in freezer (25°F) at the SAME energy use.
V2WAE51L840-4-UNV	5,129	46W	111 LPW	Equivalent to high ballast factor 2 lamp F32T8 at room temperature, 15% energy savings.
V2WAE70L840-4-UNV	6,985	65W	107 LPW	Equivalent to 3 lamp F32T8 at room temperature, 30% energy savings.

