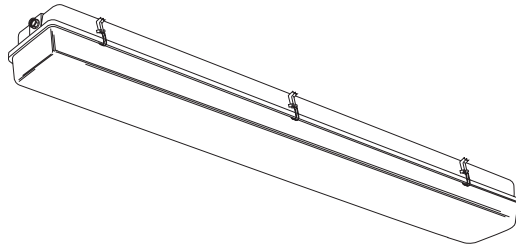


PHILIPS
Day-Brite
CFI

Industrial

Vaporlume LED DW

Wet Location 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 DW 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: DWAE51L840-4-UNV-MD360W

Family	Listing	Lens	Hubs Installed	Source	Color	Length	Voltage	Dimming	Options
<input type="checkbox"/> D	<input type="checkbox"/> W	<input type="checkbox"/>	<input type="checkbox"/> E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> –	<input type="checkbox"/> –	<input type="checkbox"/>
D Fiberglass Wet Location 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 347¹ 347 volt	blank 0-10v SDIM³ 100/40 step dim	MD360W Wet location occupancy sensor, external WHP Wide Beam Optic EMLED² Integral Emergency Protection against effect of immersion IP67

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

2 EMLLED 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)



DW Vaporlume LED Wet Location 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.
- White ABS cam action latches standard.
- Pre-painted steel lighting channel.
- Two gasketed threaded (1/2" 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.

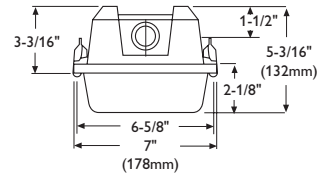
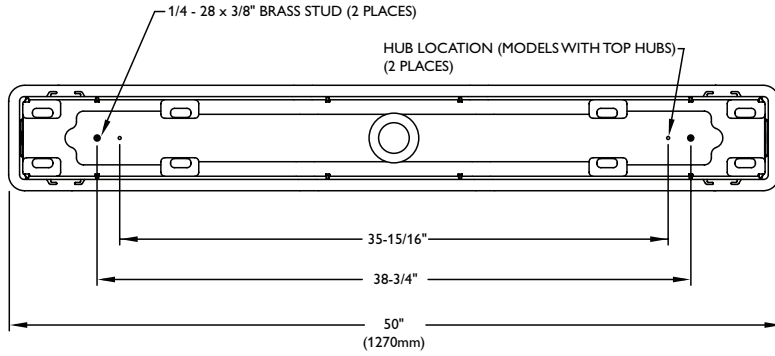
Five year luminaire limited warranty including LED boards and driver.

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.

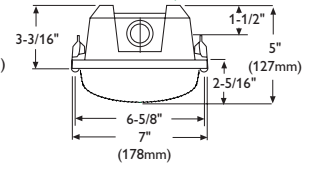
DW Vaporlume LED Wet Location Industrial

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

Dimensions



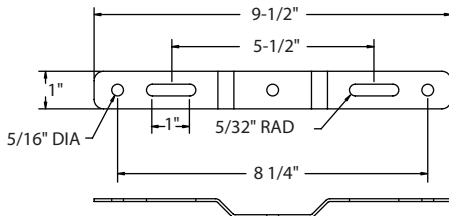
Shallow acrylic (A) and polycarbonate (P) lens



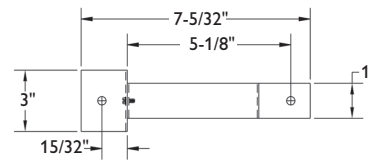
Enhanced LED acrylic lens (L)

Mounting Brackets

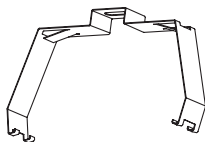
TBK - Top Mounting Bracket



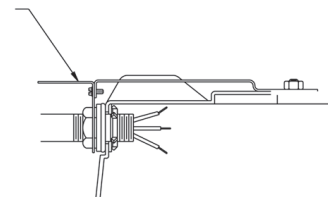
EBK - End Mounting Bracket



WBK - Wraparound Mounting Bracket



EBK - End Mounting Bracket



DW Vaporlume LED Wet Location Industrial

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

4' LED Vaporlume, 3500 nominal lumens LER-117

Catalog No.	DWAE35L840-4	Candlepower					Coefficients of Utilization																																																																																									
		Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																																																																																									
Test No.	32643						pcc																																																																																									
S/MH	1.2						pw																																																																																									
Source	LED						RCR																																																																																									
Input Watts	32						80																																																																																									
Delivered Lumens	3699						70																																																																																									
							50																																																																																									
							70																																																																																									
							50																																																																																									
							30																																																																																									
		0	1250	1250	1250	1250	0	117	117	117	114	114	114	110	110	0	108	103	97	105	100	95	94	92	0	89	78	69	85	76	68	72	66	0	81	68	59	79	68	58	65	56	0	75	61	53	71	59	52	57	50	0	68	55	46	67	54	46	52	45	0	64	50	40	61	48	40	46	40	0	58	46	36	57	45	36	42	35	0	56	41	34	54	40	33	40	33	0	52	39	30	51	38	30	36	29
Comparative yearly lighting energy cost per 1000 lumens – \$2.03 based on 3000 hrs. and \$.08 pwr KWH.		85	49	91	96	91	0-30	969	26.1	45	5069	4222	4360	0-40	1569	42.3	55	4543	4228	4105	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																															
Photometric values based upon tests performed in compliance with LM-79.		115	10	28	20	28	Light Distribution			Average Luminance																																																																																						
		125	4	19	19	19	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross																																																																																			
		135	2	10	17	10	0-30	969	26.1	45	5069	4222	4360																																																																																			
		145	1	3	9	3	0-40	1569	42.3	55	4543	4228	4105																																																																																			
		155	1	1	2	1	0-60	2772	74.8	65	865	3770	3222																																																																																			
		165	1	1	1	1	0-90	3602	97.1	75	3096	2402	2333																																																																																			
		175	1	1	1	1	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.	DWAE43L840-4	Candlepower					Coefficients of Utilization																																																																																									
		Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																																																																																									
Test No.	32642						pcc																																																																																									
S/MH	1.2						pw																																																																																									
Source	LED						RCR																																																																																									
Input Watts	38						80																																																																																									
Delivered Lumens	4431						70																																																																																									
							50																																																																																									
							70																																																																																									
							50																																																																																									
							30																																																																																									
		0	1496	1496	1496	1496	0	117	117	117	114	114	114	109	109	0	108	103	97	104	100	95	94	92	0	89	78	69	85	76	68	72	66	0	81	68	59	79	67	58	65	56	0	75	61	53	71	59	52	57	50	0	68	55	46	67	54	46	52	45	0	64	50	40	61	48	40	46	40	0	58	46	36	57	45	36	42	35	0	56	41	34	54	40	33	40	33	0	52	39	30	51	38	30	36	29
Comparative yearly lighting energy cost per 1000 lumens – \$2.07 based on 3000 hrs. and \$.08 pwr KWH.		85	58	110	118	110	0-30	969	26.1	45	5069	4222	4360	0-40	1569	42.3	55	4543	4228	4105	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																															
Photometric values based upon tests performed in compliance with LM-79.		115	12	34	24	34	Light Distribution			Average Luminance																																																																																						
		125	5	24	24	24	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross																																																																																			
		135	3	12	21	12	0-30	1161	26.1	45	6078	5034	5182																																																																																			
		145	2	4	11	4	0-40	1880	42.3	55	5434	5059	4955																																																																																			
		155	1	1	3	1	0-60	3318	74.7	65	4626	4531	3867																																																																																			
		165	1	1	1	1	0-90	4313	97.1	75	3704	2883	2786																																																																																			
		175	1	1	1	1	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																																																																																							

DW Vaporlume LED Wet Location Industrial

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

4' LED Vaporlume, 5100 nominal lumens LER-111

Catalog No.	DWAE51L840-4	Candlepower				
Test No.	32640	Angle	End	45	Cross	Back-45
S/MH	1.2	0	1729	1729	1729	1729
Source	LED	5	1722	1716	1709	1716
Input Watts	46	15	1666	1651	1632	1651
Delivered Lumens	5129	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

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.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
	70	50	30	70	50	30	50	30	
pw									
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	Average Luminance			
			Angle	End	45°	Cross
0-30	1344	26.1	45	7103	5648	5790
0-40	2176	42.3	55	6447	5616	5126
0-60	3842	74.7	65	5552	4964	3915
0-90	4992	97.1	75	4486	2974	2465
90-120	114	2.2	85	2784	1530	1043
90-130	133	2.6				
90-150	148	2.9				
90-180	149	2.9				
0-180	5141	100.0				

4' LED Vaporlume, 7000 nominal lumens LER-107

Catalog No.	DWAE70L840-4	Candlepower				
Test No.	32614	Angle	End	45	Cross	Back-45
S/MH	1.2	0	2357	2357	2357	2357
Source	LED	5	2351	2342	2345	2342
Input Watts	65	15	2274	2271	2270	2271
Delivered Lumens	6985	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

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.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
	70	50	30	70	50	30	50	30	
pw									
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

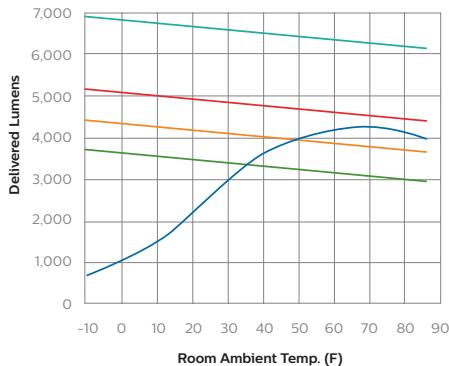
Degrees	Lumens	% Luminaire	Average Luminance			
			Angle	End	45°	Cross
0-30	1830	26.1	45	9554	7946	8219
0-40	2961	42.3	55	8566	8043	7802
0-60	5230	74.7	65	7304	7108	6080
0-90	6798	97.1	75	5848	4516	4329
90-120	156	2.2	85	3444	2433	2142
90-130	183	2.6				
90-150	203	2.9				
90-180	205	2.9				
0-180	7003	100.0				

DW Vaporlume LED Wet Location Industrial

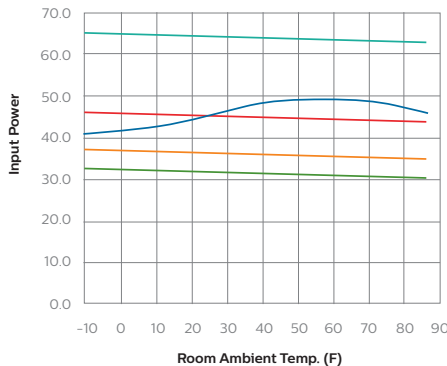
4', 3500, 4300, 5100, or 7000lm

Energy Data

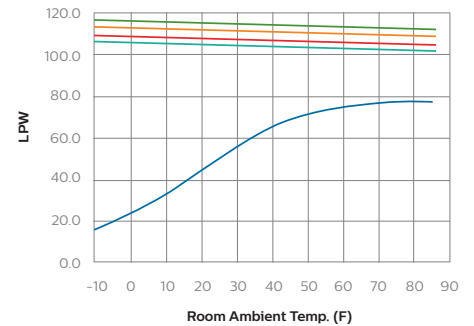
Model	Initial Delivered Lumens @ 25°C Ambient	Input Power	Lumens per Watt	Application notes
DWAE35L840-4-UNV	3,699	32W	117 LPW	<ul style="list-style-type: none"> Slightly less than 2 lamp F32T8 at room temperature, 35% energy savings. Equivalent to 2 lamp F32T8 in refrigerator (40°F), 35% energy savings.
DWAE43L840-4-UNV	4,431	38W	116 LPW	<ul style="list-style-type: none"> 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.
DWAE51L840-4-UNV	5,129	46W	111 LPW	<ul style="list-style-type: none"> Equivalent to high ballast factor 2 lamp F32T8 at room temperature, 15% energy savings.
DWAE70L840-4-UNV	6,985	65W	107 LPW	<ul style="list-style-type: none"> Equivalent to 3 lamp F32T8 at room temperature, 30% energy savings.



— 2-LAMP F32T8 — DWAE35L840 — DWAE43L840
 — DWAE51L840 — DWAE70L840



— 2-LAMP F32T8 — DWAE35L840 — DWAE43L840
 — DWAE51L840 — DWAE70L840



— 2-LAMP F32T8 — DWAE35L840 — DWAE43L840
 — DWAE51L840 — DWAE70L840

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