

# Day-Brite CFI

by Signify

## Industrial

### Vaporlume LED DW

4' sealed industrial, 3500, 4300, 5100 or 7000 lumens



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

The Day-Brite / CFI Vaporlume LED sealed industrial DW 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 available in both fluorescent and LED light sources.

#### Ordering guide

Example: **DWAE51L840-4-UNV-MD360W**

Family	Application	Lens	Hubs Installed	Lumen Package	Color Temp.	Length	Voltage	Driver	Options
<b>D</b>	<b>W</b>		<b>E</b>		—	—	—	—	
<b>D</b> Sealed industrial	<b>W</b> Wet Location	<b>A</b> DR Acrylic <b>P</b> Polycarbonate <b>L</b> Enhanced LED Acrylic	<b>E</b> Ends only	<b>35L</b> 3500 nominal lumens <b>43L</b> 4300 nominal lumens <b>51L</b> 5100 nominal lumens (25°C ambient) <b>51LH</b> 5100 nominal lumens (-35°C to 40°C) <b>70L</b> 7000 nominal lumens	<b>830</b> 80 CRI, 3000K <b>835</b> 80 CRI, 3500K <b>840</b> 80 CRI, 4000K <b>850</b> 80 CRI, 5000K	<b>4</b> 4'	<b>UNV</b> Universal Voltage, 120-277V <b>347'</b> 347V <b>480'</b> 480V	<b>blank</b> <b>SDIM</b> <sup>2</sup>	0-10V Step dimming to 40% input power  <b>MD360W</b> Wet location occupancy sensor, external <b>WHP</b> Wide beam optic <b>EMLED</b> <sup>3</sup> Integral emergency <b>IP67</b> Protection against effects of immersion <b>GLR</b> Fusing, fast blow

#### Footnotes

- 1 All 347V and 480V models available only for (-20°C to 25°C) ambient. Not available for use with 51LH or SDIM options.
- 2 Step dim (SDIM) option not available on 51LH.
- 3 EMLED option not available on 347V or 480V models.

#### 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 sealed industrial

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

## 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.

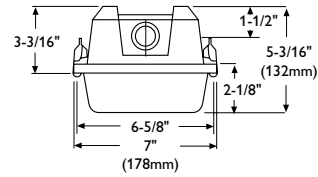
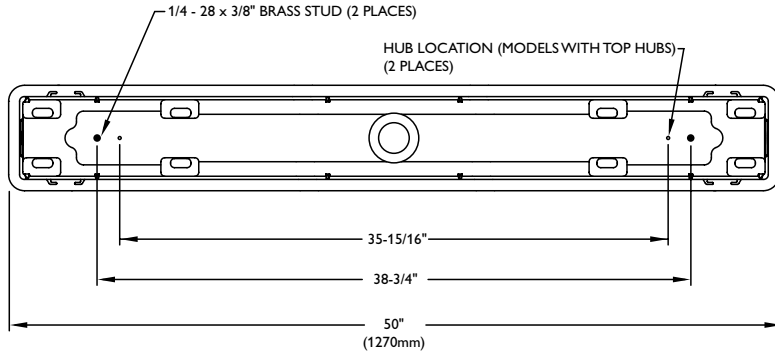
## Labels

- 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.

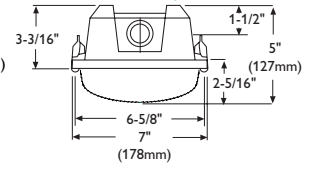
# DW Vaporlume LED sealed industrial

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

## Dimensions



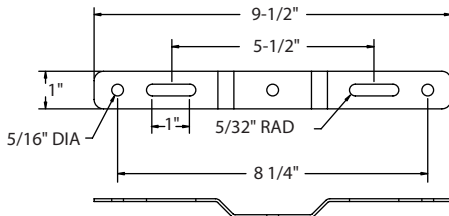
Shallow acrylic (A) and polycarbonate (P) lens



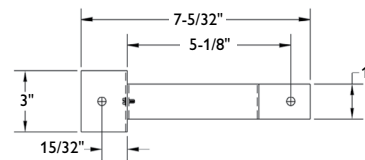
Enhanced LED acrylic lens (L)

## Mounting Brackets

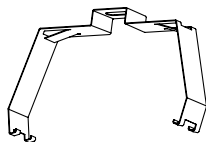
### TBK - Top Mounting Bracket



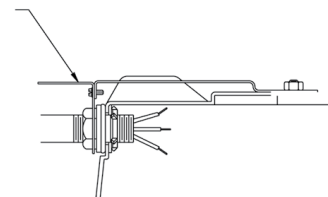
### EBK - End Mounting Bracket



### WBK - Wraparound Mounting Bracket



### EBK - End Mounting Bracket



# DW Vaporlume LED sealed industrial

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

## 4' Vaporlume LED DW, 3500 nominal lumens

## LER-117

<b>Catalog No.</b>	DWAE35L840-4
<b>Test No.</b>	32643
<b>S/MH</b>	1.2
<b>Source</b>	LED
<b>Input Watts</b>	32
<b>Delivered Lumens</b>	3699

### Candlepower

Angle	End	45	Cross	Back-45
<b>0</b>	1250	1250	1250	1250
<b>5</b>	1244	1239	1243	1239
<b>15</b>	1204	1201	1199	1201
<b>25</b>	1112	1114	1106	1114
<b>35</b>	966	964	949	964
<b>45</b>	778	777	841	777
<b>55</b>	576	685	708	685
<b>65</b>	371	509	472	509
<b>75</b>	193	250	271	250
<b>85</b>	49	91	96	91
<b>95</b>	19	36	28	36
<b>105</b>	17	30	20	30
<b>115</b>	10	28	20	28
<b>125</b>	4	19	19	19
<b>135</b>	2	10	17	10
<b>145</b>	1	3	9	3
<b>155</b>	1	1	2	1
<b>165</b>	1	1	1	1
<b>175</b>	1	1	1	1

Comparative yearly lighting energy cost per 1000 lumens – **\$2.03** 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	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	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
<b>0-30</b>	969	26.1
<b>0-40</b>	1569	42.3
<b>0-60</b>	2772	74.8
<b>0-90</b>	3602	97.1
<b>90-120</b>	81	2.2
<b>90-130</b>	95	2.6
<b>90-150</b>	105	2.8
<b>90-180</b>	106	2.9
<b>0-180</b>	3708	100.0

### Average Luminance

Angle	End	45°	Cross
<b>45</b>	5069	4222	4360
<b>55</b>	4543	4228	4105
<b>65</b>	865	3770	3222
<b>75</b>	3096	2402	2333
<b>85</b>	1821	1312	1164

## 4' Vaporlume LED DW, 4300 nominal lumens

## LER-116

<b>Catalog No.</b>	DWAE43L840-4
<b>Test No.</b>	32642
<b>S/MH</b>	1.2
<b>Source</b>	LED
<b>Input Watts</b>	38
<b>Delivered Lumens</b>	4431

### Candlepower

Angle	End	45	Cross	Back-45
<b>0</b>	1496	1496	1496	1496
<b>5</b>	1491	1487	1485	1487
<b>15</b>	1443	1439	1441	1439
<b>25</b>	1332	1338	1323	1338
<b>35</b>	1158	1151	1132	1151
<b>45</b>	933	926	1000	926
<b>55</b>	688	819	854	819
<b>65</b>	444	611	566	611
<b>75</b>	231	300	324	300
<b>85</b>	58	110	118	110
<b>95</b>	23	43	35	43
<b>105</b>	20	36	25	36
<b>115</b>	12	34	24	34
<b>125</b>	5	24	24	24
<b>135</b>	3	12	21	12
<b>145</b>	2	4	11	4
<b>155</b>	1	1	3	1
<b>165</b>	1	1	1	1
<b>175</b>	1	1	1	1

Comparative yearly lighting energy cost per 1000 lumens – **\$2.07** 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	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	67	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
<b>0-30</b>	1161	26.1
<b>0-40</b>	1880	42.3
<b>0-60</b>	3318	74.7
<b>0-90</b>	4313	97.1
<b>90-120</b>	99	2.2
<b>90-130</b>	116	2.6
<b>90-150</b>	128	2.9
<b>90-180</b>	129	2.9
<b>0-180</b>	4442	100.0

### Average Luminance

Angle	End	45°	Cross
<b>45</b>	6078	5034	5182
<b>55</b>	5434	5059	4955
<b>65</b>	4626	4531	3867
<b>75</b>	3704	2883	2786
<b>85</b>	2173	1578	1433

# DW Vaporlume LED sealed industrial

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

## 4' Vaporlume LED DW, 5100 nominal lumens LER-111

<b>Catalog No.</b>	DWAE51L840-4
<b>Test No.</b>	32640
<b>S/MH</b>	1.2
<b>Source</b>	LED
<b>Input Watts</b>	46
<b>Delivered Lumens</b>	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
<b>0</b>	1729	1729	1729	1729
<b>5</b>	1722	1716	1709	1716
<b>15</b>	1666	1651	1632	1651
<b>25</b>	1542	1523	1494	1523
<b>35</b>	1340	1307	1250	1307
<b>45</b>	1091	1039	1117	1039
<b>55</b>	817	909	884	909
<b>65</b>	533	670	574	670
<b>75</b>	280	309	286	309
<b>85</b>	75	107	86	107
<b>95</b>	26	47	34	47
<b>105</b>	24	42	30	42
<b>115</b>	14	39	29	39
<b>125</b>	6	28	28	28
<b>135</b>	4	16	24	16
<b>145</b>	3	5	12	5
<b>155</b>	2	2	3	2
<b>165</b>	2	2	2	2
<b>175</b>	2	2	2	2

### 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
<b>0-30</b>	1344	26.1
<b>0-40</b>	2176	42.3
<b>0-60</b>	3842	74.7
<b>0-90</b>	4992	97.1
<b>90-120</b>	114	2.2
<b>90-130</b>	133	2.6
<b>90-150</b>	148	2.9
<b>90-180</b>	149	2.9
<b>0-180</b>	5141	100.0

### Average Luminance

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

## 4' Vaporlume LED DW, 7000 nominal lumens LER-107

<b>Catalog No.</b>	DWAE70L840-4
<b>Test No.</b>	32614
<b>S/MH</b>	1.2
<b>Source</b>	LED
<b>Input Watts</b>	65
<b>Delivered Lumens</b>	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
<b>0</b>	2357	2357	2357	2357
<b>5</b>	2351	2342	2345	2342
<b>15</b>	2274	2271	2270	2271
<b>25</b>	2101	2105	2089	2105
<b>35</b>	1818	1814	1784	1814
<b>45</b>	1467	1462	1586	1462
<b>55</b>	1085	1302	1345	1302
<b>65</b>	701	959	891	959
<b>75</b>	365	469	503	469
<b>85</b>	92	170	176	170
<b>95</b>	36	67	53	67
<b>105</b>	33	57	39	57
<b>115</b>	19	53	39	53
<b>125</b>	8	38	38	38
<b>135</b>	4	20	33	20
<b>145</b>	3	6	18	6
<b>155</b>	2	2	4	2
<b>165</b>	2	2	2	2
<b>175</b>	2	2	2	2

### 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
<b>0-30</b>	1830	26.1
<b>0-40</b>	2961	42.3
<b>0-60</b>	5230	74.7
<b>0-90</b>	6798	97.1
<b>90-120</b>	156	2.2
<b>90-130</b>	183	2.6
<b>90-150</b>	203	2.9
<b>90-180</b>	205	2.9
<b>0-180</b>	7003	100.0

### Average Luminance

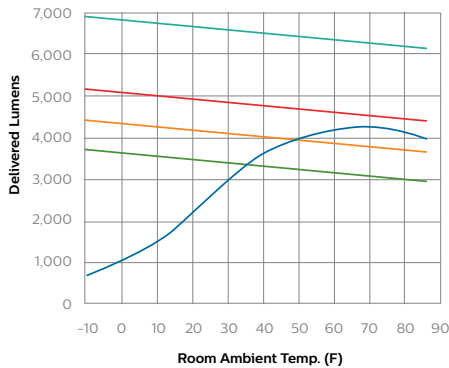
Angle	End	45°	Cross
<b>45</b>	9554	7946	8219
<b>55</b>	8566	8043	7802
<b>65</b>	7304	7108	6080
<b>75</b>	5848	4516	4329
<b>85</b>	3444	2433	2142

# DW Vaporlume LED sealed industrial

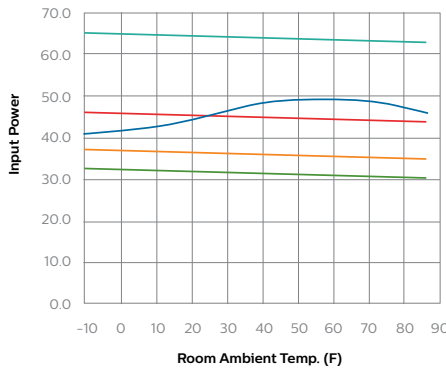
4', 3500, 4300, 5100, or 7000 lumens

## Energy Data

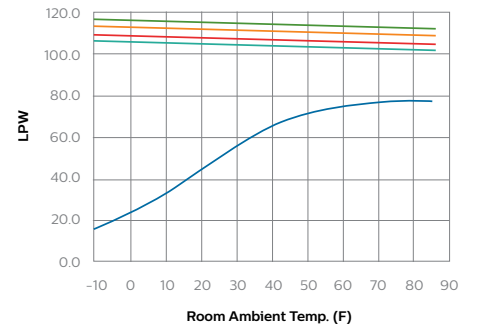
Model	Initial Delivered Lumens @ 25°C Ambient	Input Power	Lumens per Watt	Application notes
DWAE35L840-4-UNV	3,699	32W	117 LPW	<ul style="list-style-type: none"> <li>Slightly less than 2 lamp F32T8 at room temperature, 35% energy savings.</li> <li>Equivalent to 2 lamp F32T8 in refrigerator (40°F), 35%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



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



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



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

