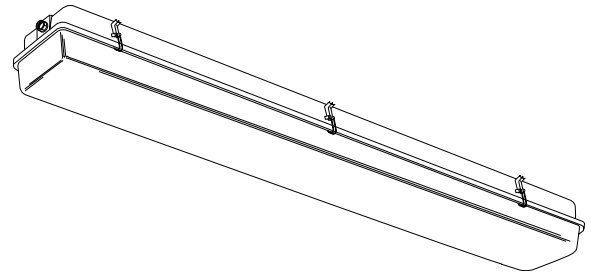


Bringing reliable and rugged efficiency to your industry.

VAPORLUME LED INDUSTRIAL DW 4'



PHILIPS DAY-BRITE / PHILIPS CFI VAPORLUME LED INDUSTRIAL DW

The Vaporlume LED Industrial DW is a wet location industrial product 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.

Project: _____
 Location: _____
 Catalog No: _____
 Fixture Type: _____
 Mfg: _____ Lamps: _____ Qty: _____
 Notes: _____

Ordering Guide

example: DWAE35L840-2-UNV-MD360W

Family	UL/cUL Listed	Lens	Hubs Installed	Source	Color	Length	Voltage	Options
<input type="checkbox"/> D	<input type="checkbox"/> W	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> - <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	E Ends only	35L 3500 nominal lumens 43L 4300 nominal lumens 51L 5100 nominal lumens (25°C ambient) 51LH 5100 nominal lumens (40°C ambient) 65L 6500 nominal lumens	840 80 CRI, 4000K 835 80 CRI, 3500K	4 4'	UNV Universal Voltage, 120/277V 347 347V ¹	MD360W Wet location occupancy sensor, external

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)

¹ 347V available only for 25° C maximum ambient. Not available for use with 65L and 51LH.



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VAPORLUME LED INDUSTRIAL DW 4'

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 non-flammable 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 40°C ambient, other models listed for 25°C ambient.¹
- Some DW luminaires are listed on the Designlights Consortium (DLC) Qualified Product List.²
- NSF Certified for Non-Food Zone Installations.

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.
- Lens formed from crepe pattern high impact acrylic sheet of .130" nominal thickness.
- Optional polycarbonate lens 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 have 50,000 hour rated life (L70, defined as 70% lumen maintenance).
- Dimming to 5% on 0–10V controls.
- Driver and LED boards are accessible from below. LED boards are individually replaceable if required.
- Combinations are available providing as much as 110 delivered lumens per Watt.
- Lumen packages range from 3,500 to 6,500 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.
- High CRI source provides excellent color rendering.
- 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.
- cETLus listed to UL 1598. Suitable for use in wet locations.
- Five year luminaire warranty including LED boards and driver.

4' LED Vaporlume, 3623 delivered lumens

LER-111

Catalog No.	DWAE35L835-4-UNV
Test No.	31313
S/MH	1.3
Lamp Type	LED
Input Watts	33

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

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

Candlepower

Angle	End	45
0	1247	1247
5	1228	1225
15	1195	1182
25	1120	1102
35	994	1000
45	818	802
55	602	655
65	371	459
75	180	254
85	46	68
95	20	24
105	15	21
115	8	20
125	4	18
135	2	10
145	1	3
155	1	1
165	1	1
175	1	1

Cross

1247
1229
1181
1117
984
805
660
481
258
56
27
18
13
13
18
11
2
1
1

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	118	118	118	115	115	115	110	110	
1	108	103	98	105	101	96	95	93	
2	97	90	82	94	88	81	83	78	
3	89	79	70	86	77	68	73	67	
4	81	69	60	79	68	59	65	57	
5	75	61	53	72	60	52	58	51	
6	68	56	46	67	55	46	53	45	
7	64	51	41	61	50	40	47	40	
8	59	46	38	57	45	36	44	36	
9	56	41	34	54	41	34	40	33	
10	52	39	30	51	39	30	36	29	

Light Distribution

Degrees	Lumens	% Fixture
0–30	963	26.5
0–40	1580	43.5
0–60	2773	76.4
0–90	3543	97.8

Average Luminance

Angle	End	45°	Cross
45	6102	5984	6008
55	5537	6022	6069
65	4634	5732	6008
75	3672	5186	5264
85	2767	4129	3384

4' LED Vaporlume, 4293 delivered lumens

LER-108

Catalog No.	DWAE43L835-4-UNV
Test No.	31314
S/MH	1.3
Lamp Type	LED
Input Watts	40

Comparative yearly lighting energy cost per 1000 lumens – \$2.20 based on 3000 hrs. and \$.08 per kWh.

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

Candlepower

Angle	End	45
0	1474	1474
5	1457	1450
15	1415	1407
25	1320	1306
35	1173	1189
45	969	953
55	715	769
65	440	544
75	214	300
85	55	86
95	24	28
105	18	25
115	9	24
125	5	22
135	3	12
145	2	3
155	1	1
165	1	1
175	1	1

Cross

1474
1451
1401
1327
1164
955
777
567
309
74
30
21
15
16
22
13
3
1
1

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	118	118	118	115	115	115	110	110	
1	108	103	98	105	101	96	95	93	
2	97	90	82	94	88	81	83	78	
3	89	79	69	86	77	68	73	67	
4	81	69	60	79	68	59	65	57	
5	75	61	53	72	60	52	58	51	
6	68	56	46	67	55	46	53	45	
7	64	51	41	61	50	41	47	40	
8	59	46	38	57	46	36	44	36	
9	56	41	34	54	41	34	40	33	
10	52	39	30	51	39	30	36	29	

Light Distribution

Degrees	Lumens	% Fixture
0–30	1142	26.6
0–40	1872	43.6
0–60	3282	76.4
0–90	4198	97.8

Average Luminance

Angle	End	45°	Cross
45	7232	7114	7123
55	6574	7074	7151
65	5496	6789	7074
75	4367	6120	6289
85	3330	5182	4492

¹ 347V available only for 25° C maximum ambient. Not available for use with 65L and 51LH.

² Refer to www.designlights.org for complete DLC listings.

VAPORLUME LED INDUSTRIAL DW 4'

4' LED Vaporlume, 5052 delivered lumens

LER-107

Catalog No.	DWAE51L835-4-UNV
Test No.	31224
S/MH	1.2
Lamp Type	LED
Input Watts	47

Comparative yearly lighting energy cost per 1000 lumens – \$2.22 based on 3000 hrs. and \$.08 per kWh.

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

Candlepower

Angle	End	45
0	1742	1742
5	1733	1730
15	1686	1652
25	1581	1543
35	1412	1375
45	1168	1125
55	869	859
65	531	657
75	257	353
85	68	112
95	30	33
105	23	29
115	12	31
125	6	28
135	4	11
145	2	2
155	2	0
165	1	2
175	0	1

Cross

1742
1731
1641
1532
1361
1123
890
659
358
123
35
21
19
21
28
15
1
0
0

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	118	118	118	115	115	115	110	110
RCR	108	103	98	105	101	96	95	93
0	97	90	82	94	88	81	83	78
1	89	79	69	86	77	68	73	67
2	81	69	60	79	68	59	65	57
3	75	61	53	72	60	52	58	51
4	68	56	46	67	55	46	53	45
5	64	51	41	61	50	41	47	40
6	59	46	38	57	46	36	44	36
7	56	42	34	54	41	34	40	33
8	52	39	30	51	39	30	36	30

Light Distribution

Degrees	Lumens	% Fixture	Average Luminance			
Angle	End	45°	Cross			
0-30	1347	26.6	45	8713	8397	8378
0-40	2206	43.6	55	7991	7904	8185
0-60	3859	76.3	65	6631	8205	8231
0-90	4941	97.8	75	5241	7203	7298
			85	4129	6768	7440

4' LED Vaporlume, 6505 delivered lumens

LER-97

Catalog No.	DWAE65L835-4-UNV
Test No.	31284
S/MH	1.3
Lamp Type	LED
Input Watts	67

Comparative yearly lighting energy cost per 1000 lumens – \$2.46 based on 3000 hrs. and \$.08 per kWh.

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

Candlepower

Angle	End	45
0	2242	2242
5	2220	2208
15	2157	2126
25	2014	1981
35	1789	1788
45	1471	1463
55	1088	1083
65	670	865
75	325	446
85	83	140
95	36	45
105	27	42
115	14	40
125	7	30
135	4	13
145	2	2
155	2	2
165	2	2
175	2	2

Cross

2242
2212
2122
1981
1767
1446
1165
856
474
151
43
32
28
32
31
12
2
1
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	118	118	118	115	115	115	110	110
RCR	108	103	98	105	101	96	95	93
0	97	90	82	94	88	81	83	78
1	89	79	69	86	77	68	73	67
2	81	69	60	79	68	59	65	57
3	75	61	53	72	60	52	58	51
4	68	56	46	67	55	46	53	45
5	64	51	41	61	50	41	47	40
6	59	46	38	57	46	36	44	36
7	56	41	34	54	41	34	40	33
8	52	39	30	51	39	30	36	29

Light Distribution

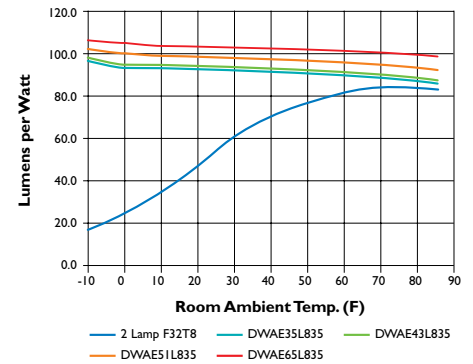
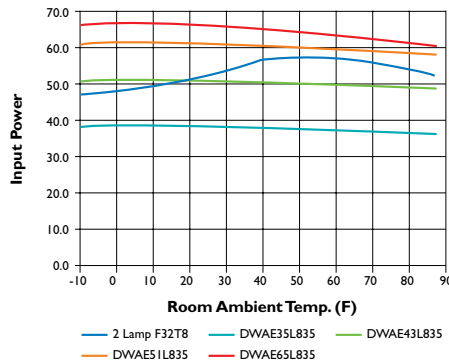
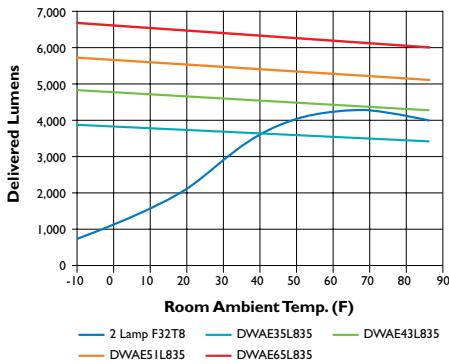
Degrees	Lumens	% Fixture	Average Luminance			
Angle	End	45°	Cross			
0-30	1732	26.6	45	10979	10916	10792
0-40	2844	43.6	55	10007	9964	10714
0-60	4968	76.3	65	8359	10797	10683
0-90	6362	97.8	75	6620	9101	9663
			85	5049	8476	9111

Energy Data

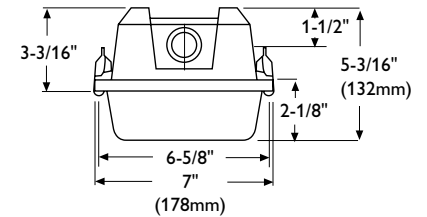
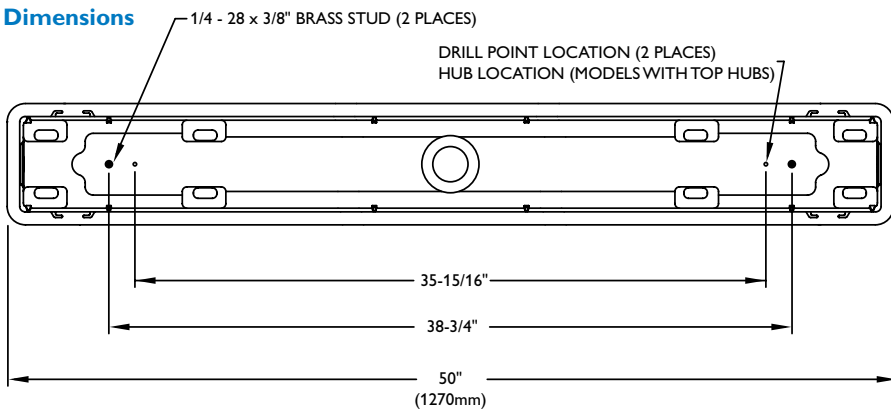
Model	Initial Delivered Lumens @ 25°C Ambient	Input Power	Lumens per Watt	Application notes
DWAE35L835-4-UNV	3623	33W	111 LPW	<ul style="list-style-type: none"> Slightly less than 2 lamp F32T8 at room temperature, 35% energy savings. Equivalent to 2 lamp F32T8 in refrigerator (40°F), 35% energy savings.
DWAE43L835-4-UNV	4293	40W	108 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.
DWAE51L835-4-UNV	5052	47W	107 LPW	<ul style="list-style-type: none"> Equivalent to high ballast factor 2 lamp F32T8 at room temperature, 15% energy savings.
DWAE65L835-4-UNV	6505	67W	97 LPW	<ul style="list-style-type: none"> Equivalent to 3 lamp F32T8 at room temperature, 30% energy savings.

VAPORLUME LED INDUSTRIAL DW 4'

Energy Data (continued)

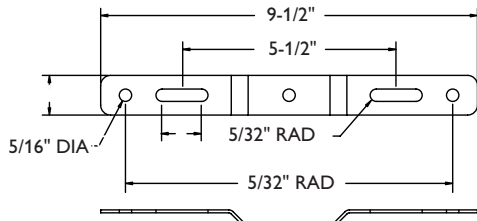


Dimensions

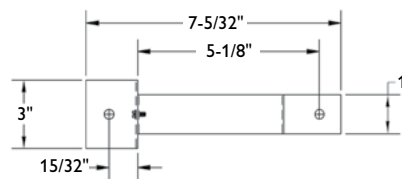


Mounting Brackets

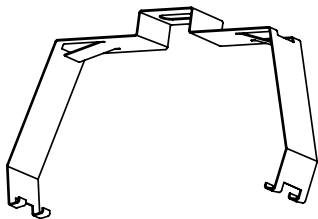
TBK - Top Mounting Bracket



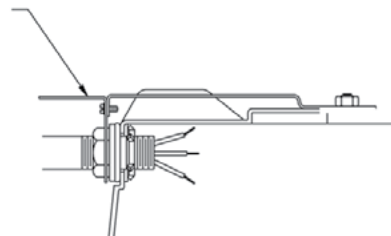
EBK - End Mounting Bracket



WBK - Wraparound Mounting Bracket



EBK - End Mounting Bracket



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Philips Lighting Company
 200 Franklin Square Drive
 Somerset, NJ 08873
 Phone: 855-486-2216

Philips Lighting Company
 281 Hillmount Road
 Markham ON, Canada L6C 2S3
 Phone: 800-668-9008