



Day-Brite / CFI Vaporlume LED sealed industrial V2 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.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lumens: _____ Qty: _____

Notes: _____

Ordering guide

Example: V2WAE51L840-4-UNV-MD360W

Family	Application	Lens	Hubs Installed	Lumen Package	Color Temp.	Length	Voltage	Driver	Options
V2	W				—	—	—	—	
V2 Vaporlume	W Wet location	A DR Acrylic P Polycarbonate L Enhanced LED Acrylic	E Ends only T Top only B Both ends and top	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 Other lumen packages may be ordered in increments of 100lm up to 7000 lumens.	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	UNV Universal Voltage, 120-277V 347¹ 347V 480¹ 480V	blank 0-10V dimming SDIM² Step dimming to 40% input power	MD360W³ Wet location occupancy sensor, external MD360WD³ Wet location occupancy sensor, (ON/DIM to 10%) WHP Wide Beam Optic EMLED³ Integral Emergency Protection against effects of immersion IP67 GLR Fusing, fast blow TR Torx T-15 tamper resistant stainless steel latches (TPDH tamper proof driver required) SWZCSH⁴ Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SNH200⁴ Integral EasySense occupancy & daylight sensor, with advanced SpaceWise type wireless grouping

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.
- 4 High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- 5 Not available with SWZCSH or SNH200 option.

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)
- **TPDTH** – Tamper proof driver, Torx T-15 head pin drive and handle (required with TR option)
- **V2/DW-4ARL-CS** – 4' Acrylic Replacement Lens
- **V2/DW-4PRL** – 4' Polycarbonate Replacement Lens
- **V2/DW-4LRA** – 4' LED Frosted Acrylic Replacement Lens



V2 Vaporlume LED sealed industrial

4', 3500 to 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

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.
- 5 Year Limited Warranty, www.signify.com/warranties
- 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.

SNH200 EasySense

- Philips field apps allow programming of occupancy & daylight sensing parameters and fine-tuning of light levels during installation. It can also be used for grouping of fixtures.
- Download "Philips field apps" from the Google Play Store.

Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>.

- The app works on certain Android phones with NFC or IR. See Recommended Phones and the EasySense App User Manual in the download section at <http://www.usa.lighting.philips.com/products/lighting-components/easysense> and follow the "View Downloads" link to register for access to the download area. Navigate to Connected-Lighting-Components and then Philips-EasySense-Sensors to find downloads.

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCSH and an evolution of SpaceWise)

- SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
 - UID8451/10 wireless dimmer switch
 - SWS200 wireless scene switch
 - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
 - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
 - LCN3110/05 battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
 - LCN3120/05 battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

V2 Vaporlume LED sealed industrial

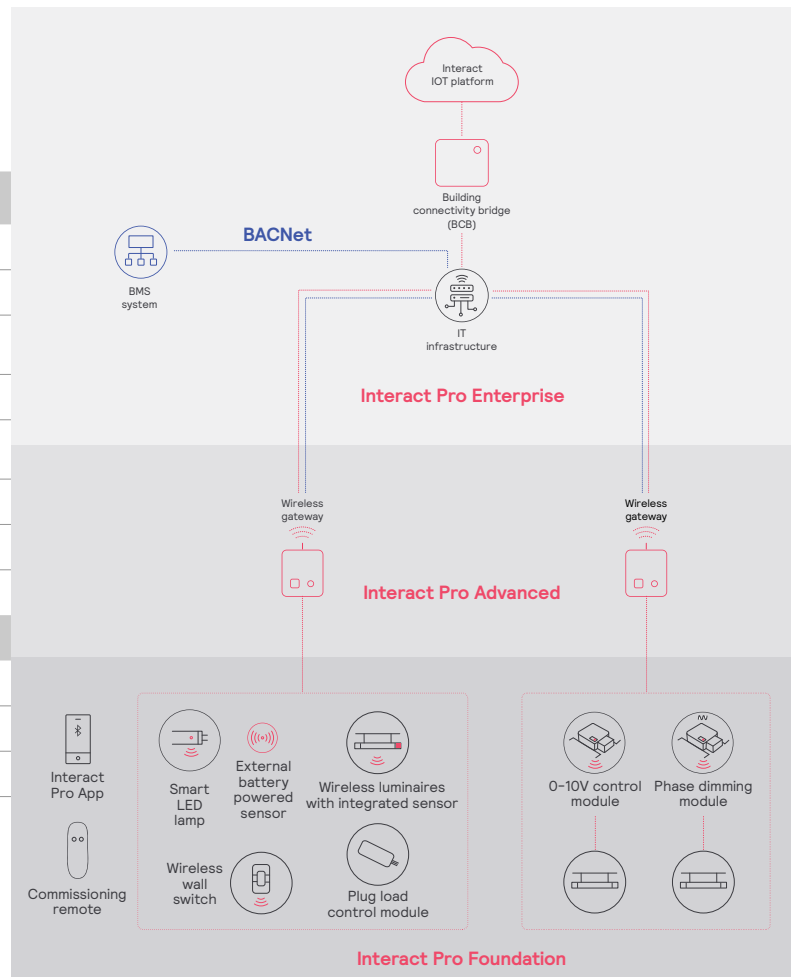
4', 3500 to 7000 lumens

Interact Pro scalable system			
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

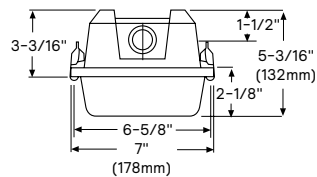
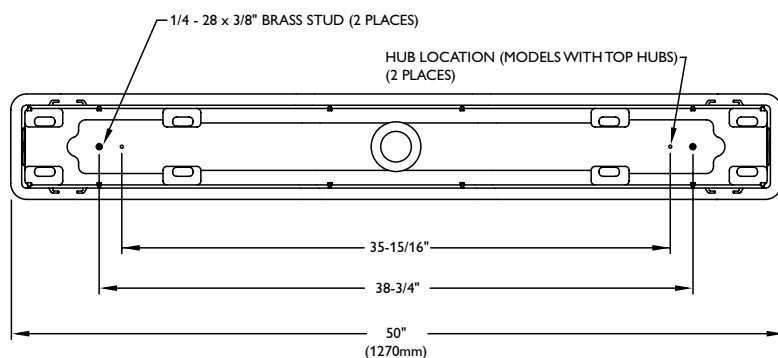
System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16



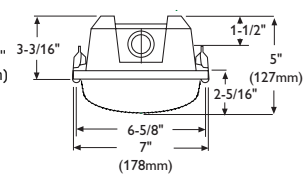
V2 Vaporlume LED sealed industrial

4', 3500 to 7000 lumens

Dimensions



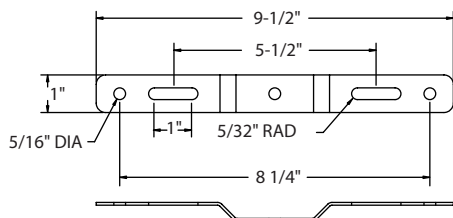
Shallow acrylic (A) and polycarbonate (P) lens



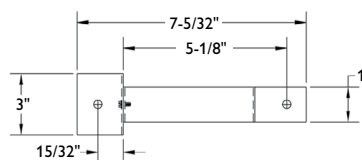
Enhanced LED acrylic lens (L)

Mounting Brackets

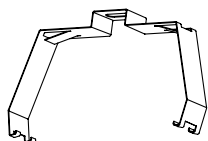
TBK - Top Mounting Bracket



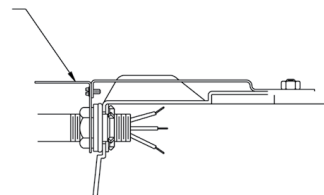
EBK - End Mounting Bracket



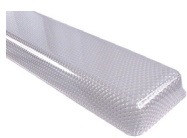
WBK - Wraparound Mounting Bracket



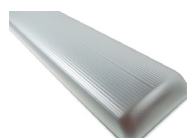
EBK - End Mounting Bracket



Acrylic Lens



Polycarbonate Lens



LED Frosted Acrylic Lens

V2 Vaporlume LED sealed industrial

4', 3500 to 7000 lumens

4' Vaporlume LED V2, 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	
		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					Average Luminance				
Photometric values based upon tests performed in compliance with LM-79.		145	1	3	9	3	Degrees	Lumens	% Luminaire		Angle	End	45°	Cross		
		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' Vaporlume LED V2, 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	
		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					Average Luminance				
Photometric values based upon tests performed in compliance with LM-79.		145	2	4	11	4	Degrees	Lumens	% Luminaire		Angle	End	45°	Cross		
		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 sealed industrial

4', 3500 to 7000 lumens

4' Vaporlume LED V2, 5100 nominal lumens LER-111

Catalog No. V2WAE51L840-4 Test No. 32640 S/MH 1.2 Source LED Input Watts 46 Delivered Lumens 5129	Candlepower					Coefficients of Utilization									
						EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
	Angle	End	45	Cross	Back-45	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							
Comparative yearly lighting energy cost per 1000 lumens – \$2.16 based on 3000 hrs. and \$.08 pwr KWH.						Light Distribution				Average Luminance					
						Degrees	Lumens	% Luminaire	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								
Photometric values based upon tests performed in compliance with LM-79.															
	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										

4' Vaporlume LED V2, 7000 nominal lumens LER-107

Catalog No.	V2WAE70L840-4	Candlepower					Coefficients of Utilization											
Test No.	32614	Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)											
S/MH	1.2		0	2357	2357	2357	2357	pcc	80			70			50			
Source	LED		5	2351	2342	2345	2342	pw	70	50	30	70	50	30	50	30		
Input Watts	65		15	2274	2271	2270	2271	RCR										
Delivered Lumens	6985		25	2101	2105	2089	2105	0	117	117	117	114	114	114	109	109		
		35	1818	1814	1784	1814	1	108	103	97	105	100	95	94	92			
		45	1467	1462	1586	1462	2	97	89	81	94	86	80	82	77			
		55	1085	1302	1345	1302	3	89	78	69	85	76	68	72	66			
		65	701	959	891	959	4	81	68	59	79	67	58	65	56			
		75	365	469	503	469	5	75	61	52	71	59	52	57	50			
		85	92	170	176	170	6	68	55	46	67	54	46	52	45			
		95	36	67	53	67	7	64	50	40	61	48	40	46	40			
		105	33	57	39	57	8	58	46	36	57	45	36	42	35			
		115	19	53	39	53	9	56	41	34	54	40	33	40	33			
		125	8	38	38	38	10	52	39	30	51	38	30	36	29			
		135	4	20	33	20	Light Distribution									Average Luminance		
		145	3	6	18	6	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross					
		155	2	2	4	2	0-30	1830	26.1	45	9554	7946	8219					
		165	2	2	2	2	0-40	2961	42.3	55	8566	8043	7802					
		175	2	2	2	2	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									

V2 Vaporlume LED sealed industrial

4', 3500 to 7000 lumens

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.

