Day-Brite CFI by (Signify

Day-Brite / CFI HBY LED high bay provides durability in an appealing compact

accessories available, this luminaire can be used in many different applications ranging from warehouses and manufacturing facilities to retail outlets and

form. With a wide range of lumen packages, optical distributions, and

Industrial

HBY LED High bay

12,000 to 36,000 lumens

Control options available

Project:	
Location:	
Cat.No:	
Туре:	
Lumens:	Qty:
Notes:	

Ordering guide

natatoriums.

Family	Lumens (nominal')	Color Temperature	Voltage	Distribution	Paint Colors	Options
HBY		_	_	-	-	
НВҮ	12L 12,000 lumens 18L 18,000 lumens 24L 24,000 lumens 30L ² 30,000 lumens 36L ² 36,000 lumens Other lumen packages may be ordered in increments of 1000lm up to 36000 lumens.	850 5000K (CRI 80)	voltage 120-277V	N Narrow M Medium W Wide A Aisle	BZ Dark Bronze WT White BK Black AL Silver Aluminum	 WP6^{3.6} Wired 6' 16/3 Cord & NEMA Twist Lock Plug WP6D^{3.6} Wired 6' 16/3 Cord & NEMA Twist Lock Plug for Line Voltage and Wired 6' 16/3 Cord & Plug for Dimming Control WC6D⁶ Wired 6' 16/3 Cord for Line Voltage and Wired 6' 16/3 Cord for Dimming Control WC6/4⁶ Wired 6' 16/4 cord for line voltage plus unswitched hot for EM WC6/5⁶ Wired 6' 18/5 cord for line voltage plus 0-10V dimming WC6/6⁶ Wired 6' 18/6 cord for line voltage plus unswitched hot for EM plus 0-10V dimming BSL10LSTFactory wired Philips Bodine integral emergency pack, nominal 1100 to 1400 lumens MD360WD⁷ Wet location occupancy sensor, (ON/OFF) MD360WD⁷ Wet location occupancy sensor, (ON/DIM to 10%) SWZCSH⁵ Interact Pro scalable high bay sensor with integral daylight & occupancy & daylight sensor, with advanced SpaceWise type wireless grouping FGS Solite stippled tempered glass lens XTM Extreme Environment (see specification notes for details) NFZ NSF listed for Non-Food Zone (Factory wired 6' 16/3 black cord is standard)

Footnotes

- Nominal delivered lumens at 25°C ambient
- 2 Not available with BSL10LST option
- 3 Must specify line voltage
- 4 Do not use with XTM option luminaire in natatoriums or other corrosive environments.
- 5 High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- 6 6' is standard cord length. For optional 10', 15', or 20' cord length, replace the "6" in the option code with desired length.
- 7 Not available with SWZCSH or SNH200 option

General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Wiring Notes

• Standard cords have 3 wires. Consult factory for other cord options.

Accessories (order separately, see last

page	for	detai	ls)

• HCH5-SNAP 4 5' cables with snap hooks • HCH10-SNAP 4 10' cables with snap hooks HCH15-SNAP⁴ 15' cables with snap hooks • HBY-ADJHGR 4 Adjustable hanger • HBY-ADJHGR-XTM Adjustable hanger for Extreme Environment • HBY-IND ⁴ Hanging bracket pair for indirect suspension HBY-IND-XTM Hanging bracket pair for indirect suspension for

Extreme Environments



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Example: HBY24L840-UNV-M-WT

Application

• This luminaire can be used to illuminate manufacturing, warehousing, gymnasiums, arenas and many other large indoor spaces with control and precision. **Construction**/

Finish

• Die cast aluminum housing provides excellent thermal transfer to extend component life.

• Tempered glass lens with molded gasket seals the optical compartment.

• Cable/chain mounting capability is standard (ordered separately or furnished by others). Accessories are available for other mounting methods.

• Polyester powder finish on all die cast parts for excellent impact and corrosion resistance.

• Each unit comes standard with 6' 16/3 wired cord (see options for other wiring configurations).

• LED light engines and drivers are field replaceable.

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

· Components are RoHS compliant.

L70 LED predicted lumen maintenance
 >100,000 hours

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

• NSF Certified option for Non-FoodZone installation.

Standard construction is IP65.

• Dimming drivers are standard. Control is 0-10V DC. Note: proper cord options required to use dimming controls.

- Optional motion detector.
- DLC Listed. Please check the DLC
- 6KV surge protection standard.

• XTM Extreme Environment option provides extra protection from heat and chemicals. Finish coating, stainless steel hardware and LED upgrades allow use in areas such as natatoriums.

SNH200 EasySense

- Philips field apps allow programming of occupany & 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/lightingcomponents/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.

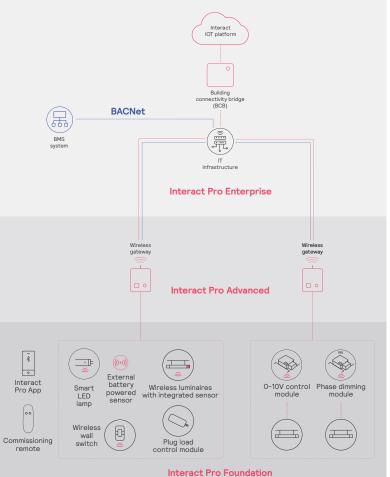
- Compatible with:
- UID8451/10 wireless dimmer switch
- SWS200 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110/05 battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
- 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

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

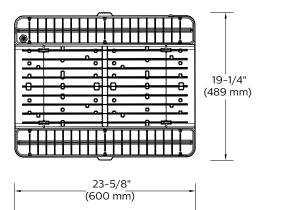
Currently supported maximum system size

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
	·



Dimensions



0

Ambient Temperature Data	1
Configuration	Ambient
HBY36L - UNV	-20°C to 45°C
HBY30L - UNV	-20°C to 55°C
HBY24L - UNV	-20°C to 55°C
HBY18L - UNV	-20°C to 55°C
HBY12L - UNV	-20°C to 55°C
HBY24L - 347/480V	-20°C to 50°C
HBY18L - 347/480V	-20°C to 50°C
HBY12L - 347/480V	-20°C to 55°C
BSL10LST option	0°C to 50°C



Accessories





Accessory Catalog Code	Description
HCH5-SNAP	5' hanging pair of cables with snap hooks
HCH10-SNAP	10' hanging pair of cables with snap hooks
HBY-ADJHGR	Adjustable hanger kit -galvanized steel

Photometry

HBY LED high bay, Aisle Distribution, 18,000 nominal delivered lumens

		Cand	lepowe	r			Light	Distr	ibutic	n		Ave	rage Lu	minan	се
Catalog No.	HBY18L840-UNV-A	Angle	End	45	Cross	-45	Degre	es L	umens	% Lum	inaire	Angle	End	45°	Cross
Test No.	39538	0	4328	4328	4328	4328	0-30		4202	22		45	9692	30621	4418
S/MH	2.5	5	4271	4395	4466	4395	0-40 0-60		7739 16317	41. 87	-	55 65	3923 3451	34162 11922	51156 37530
Lamp Type	LED	15 25	4083 3653	4788 5335	5317 6542	4788 5335	0-60		18627	100	-	75	2525	2813	6770
Lumens	18.628	35 45	2919 1929	5861 6094	7886 8793	5861 6094	0-180)	18628	100	0.0	85	1207	1101	1508
Input Watts	136	55	633	5514	8258	5514	Coef	ficien	ts of	Utiliza	ton				
Efficacy	137	65	410	1418	4464	1418	EFFECT	IVE FLO	OR CAV	ITY REFL	ECTANCE	20 PER	(pfc=0.20)		
Enicacy	121	75	184	205	493	205	рсс		80			70		50	
		85	30	27 0	37	27	pw	70	50	30	70	50	30	50	30
Comparative yearly l	ighting energy cost per 1000	95 105	0	0	0	0	RCR	44.0	410	410	44.0	44.0	44.0		
lumens – \$1.75 base	d on 3000 hrs. and \$.08 pwr KWH.	105	0	0	0	0	0	119	119	119	116	116	116	111	111 96
		125	0	õ	õ	0	1	110	106 93	102 86	107 98	103 91	100 85	98 87	96 82
The photometric res	ults were obtained in the Philips	135	õ	õ	õ	õ	23	91	81	73	89	80	72	77	70
	which is NVLAP accredited by the	145	0	0	0	0	4	83	71	63	81	70	62	68	61
	Standards and Technology.	155	0	0	0	0	5	76	63	54	74	62	54	60	53
	0,	165	0	0	0	0	6	70	56	47	68	55	47	54	46
Photometric values k	based on test performed in	175	0	0	0	0	7	64	51	42	63	50	41	48	41
compliance with LM [.]	-79.						8	59	46	37	58	45	37	44	36
							9	55	42	33	54	41	33	40	32
							10	52	38	30	50	37	30	36	29

HBY LED high bay, Medium Distribution, 18,000 nominal delivered lumens

		Cand	lepowe	r			Light	: Disti	ributic	n		Ave	rage Lu	minan	се
Catalog No.	HBY18L840-UNV-M	Angle	End	45	Cross	-45	Degr	ees l	umens	% Lum	inaire	Angle	End	45°	Cross
Test No.	39535	0	10992	10992	10992	10992	0-30		9339	49	.9	45	13681	21646	17583
S/MH	1.4	5	10894	11060	11107	11060	0-40		14604	78.	-	55 65	4654	3013	2861 2708
Lamp Type	LED	15 25	11006 9515	11387 11218	11551 12414	11387 11218	0-60 0-90)	18155 18723	96. 100	0.0	75	3892 2593	2320 2151	2475
Lumens	18,729	35 45	6966 2722	8827 4308	9647 3499	8827 4308	0-18		18729	100		85	2467	2430	2597
Input Watts	136	55	751	486	462	486	Coef	ficier	its of	Utilizat	tion				
Efficacy	138	65	463	276	322	276	EFFEC	TIVE FLO	OOR CAV	ITY REFL	ECTANCE	20 PER	(pfc=0.20)		
Enicacy	001	75 85	189 61	157 60	180	157	рсс		80			70		50	
Comparative yearly ligh	nting energy cost per 1000	95 105	0	0	64 0 0	60 0 0	pw RCR	110	50 119	30 119	70 116	50 116	30	50	30
lumens – \$1.74 based o	on 3000 hrs. and \$.08 pwr KWH.	115	Ő	Ő	Ő	õ	0	119 112	109	106	110	107	104	111 103	101
		125	0	0	0	0	2	105	100	95	103	98	93	94	91
	s were obtained in the Philips	135	0	0	0	0	3	99	91	85	97	90	84	87	82
	hich is NVLAP accredited by the	145	0	0	0	0	4	93	84	77	91	82	76	80	75
National Institute of Sta	andards and Technology.	155 165	0	0	0	0	5	87	77	70	85	76	69	74	68
Photomotric values ba	sed on test performed in	105	0	0	0	0	6	81	71	64	80	70	63	68	62
compliance with LM-79		1/5	0	0	0	0	/ 8	76	65 61	58 54	75 70	65 60	58 53	63 59	57 53
computince with EM 7.	5.						9	68	56	54 50	66	56	49	59	49
							9 10	64	53	46	63	52	49	51	49

HBY LED high bay, Narrow Distribution, 18,000 nominal delivered lumens

		Cand	lepowe	r			Light	Distr	ibutio	on		Ave	rage Lu	minar	ce
Catalog No.	HBY18L840-UNV-N	Angle	End	45	Cross	-45	Degre	es Li	umens	% Lumi	naire	Angle	End	45°	Cross
Test No.	39528	0	22170	22170	22170	22170	0-30		4259	76.		45	5152	2796	2840
S/MH	0.8	5 15	22002 21538	22046 20143	21880 18829	22046 20143	0-40 0-60		7090 8028	91. 96.		55 65	5224 2920	2625 2695	2685 2908
Lamp Type	LED	25	17376	14592	12008	14592	0-90	1	8669	100	.0	75	5089	2342	2917
Lumens	18,676	35	5368	3879	3142	3879	0-180	1	8676	100	.0	85	3551	3103	2707
Input Watts	136	45 55	1025 843	556 424	565 433	556 424	Coef	ficien	ts of	Utilizat	tion				
Efficacy	137	65	347 371	321 171	346 213	321 171		IVE FLC		ITY REFL	ECTANCE		(pfc=0.20)	_	
Lincacy	157	75 85	371 87	76	213 66	76	pcc pw	70	80 50	30	70	70 50	30	50 50	30
	ighting energy cost per 1000 d on 3000 hrs. and \$.08 pwr KWH.	95 105	0 0	0 0	0 0	0	RCR 0	119	119	119	116	116	116	111	111
		115 125	0 0	0 0	0 0	0	$\frac{1}{2}$	113	110	108 98	111 105	108 101	106 97	104 97	102 94
	ults were obtained in the Philips	135	0	0	0	0	3	102	95	90	100	94	89	91	88
	which is NVLAP accredited by the Standards and Technology.	145 155	0 0	0	0 0	0	4 5	97 92	89 84	84 78	95 91	88 83	83 77	86 81	82 76
		165	Ō	Ō	Ō	Ō	6	88	79	73	86	78	73	77	72
	based on test performed in	175	0	0	0	0	7	84	74	69	82	74	68	73	67
compliance with LM-	-79.						8	80 76	70 67	65 61	79 75	70 66	64 61	69 65	63 60
							10	73	63	58	73	63	57	62	57

HBY LED high bay, Wide Distribution, 18,000 nominal delivered lumens

		Cand	lepowe	r			Light	Distr	ibutio	n		Ave	age Lu	minan	се
Catalog No.	HBY18L840-UNV-W	Angle	End	45	Cross	-45	Degree	es l	umens	% Lum	inaire	Angle	End	45°	Cross
Test No.	39525	0	3954	3954	3954	3954	0-30	CJ _	4621	25.		45	23736	29129	3405
S/MH	2.2	5	4116	4096	4009	4096	0-40		8452	46 91		55 65	21243 5817	27082 8351	3055 5348
Lamp Type	LED	15 25	4919 6468	4793 6376	4425 5876	4793 6376	0-60 0-90		16579 18086	91. 100		75	3575	3357	3370
Lumens	18.092	35	5124	5951	7157	5951	0-180		18092	100	0.0	85	2878	2711	2662
Input Watts	136	45 55	4723 3429	5797 4372	6778 4931	5797 4372	Coeffi	cient	s of U	tilizati	on				
Efficacy	133	65	692	993	636	993	EFFECTI	VE FLC	OR CAV	ITY REFL	ECTANCE	20 PER (pfc=0.20)		
Enicacy	100	75	260	245	246	245	рсс		80			70		50	
		85 95	71 0	67 0	65 0	67	pw	70	50	30	70	50	30	50	30
	ghting energy cost per 1000	105	0	ő	0	0	RCR 0	119	119	119	116	116	116	111	111
lumens – \$1.80 based	d on 3000 hrs. and \$.08 pwr KWH.	115	0	0	0	0	1	110	106	103	108	104	101	100	97
		125	0	0	0	0	2	101	94	88	99	92	86	89	84
	Ilts were obtained in the Philips	135	0	0	0	0	3	93	83	75	90	81	74	78	72
	which is NVLAP accredited by the	145	0	0	0	0	4	85	73	65	83	72	64	70	63
National Institute of S	Standards and Technology.	155 165	0	0 0	0	0	5	78	65	57	76	64	56	62	55
Photomotric values h	ased on test performed in	105	0	0	0	0	6	72	59	50	70	58	49	56	48
compliance with LM-		1/5	U	U	U	0	/	66	53	44	64	52	44	50	43
	13.						8	61	48	39	60	47	39	46	38
							10	57 53	43	35 32	55 52	43 39	35 32	42 38	34 31

Photometric Test List

Catalog No.	Test No.	Delivered Lumens	Input Watts*	Efficacy
HBY12L840-UNV-N	39527	12642	86	148
HBY12L840-UNV-M	39536	12533	85	147
HBY12L840-UNV-W	39526	12403	86	145
HBY12L840-UNV-A	39537	12518	86	146
HBY18L840-UNV-N	39528	18676	136	137
HBY18L840-UNV-M	39535	18729	136	138
HBY18L840-UNV-W	39525	18092	136	133
HBY18L840-UNV-A	39538	18628	136	137
HBY24L840-UNV-N	39529	24261	188	129
HBY24L840-UNV-M	39534	24281	187	130
HBY24L840-UNV-W	39523	23844	187	128
HBY24L840-UNV-A	39539	23914	187	128
HBY30L840-UNV-N	39531	30155	225	134
HBY30L840-UNV-M	39532	30386	226	135
HBY30L840-UNV-W	39524	29985	226	133
HBY30L840-UNV-A	39541	30094	225	134
HBY36L840-UNV-N	39530	35912	280	128
HBY36L840-UNV-M	39533	36115	280	129
HBY36L840-UNV-W	39522	35626	280	127
HBY36L840-UNV-A	39540	36038	280	129
* 347V and 480V models have the same input watts.				

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-theshelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

Signify

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