Day-Brite

CFI

by signify

Linear

LBX LED suspended

Up to 18,000 lm



Day-Brite / CFI LED linear suspended LBX luminaires with optional LightBalance Optics provide the versatility required for a wide range of applications. Available in 5 different configurations, LBX is easy to install and can be mounted together in runs. Where precise control is required, LightBalance Optics put the light where it's needed. Choose between narrow, medium, wide, & aisle asymmetric distributions.

Project:

Location:

Cat.No:

Type:

Qty:

Notes:

Ordering guide

Example: LBX55L840-UNV-FD

Family	Lumens (nominal delivered)	CRI / CCT		Voltage		Optics		Options	
LBX			–		–		–		
LBX	**4' Length** **40L** 4,000lm **55L** 5,500lm **70L** 7,000lm **90L** 9,000lm Other lumen packages may be ordered in increments of 500lmfrom 4000 to 9000lumens for 4' units **8' Length** **80L** 8,000lm **110L** 11,000lm **140L** 14,000lm **180L** 18,000lm Other lumen packages may be ordered in increments of 1000lmfrom 8000 to 18000lumens for 8' unit Specify Fixture Length on Purchase Order	**830**[3] 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K		**UNV** Universal voltage 120-277V **120** 120V **208** 208V **240** 240V **277** 277V **347**[4] 347V		**Blank** General Distribution **N**[1] Narrow **M**[1] Medium **W**[1] Wide **A**[1,2] Aisle		**FD** Flat diffuse lens **UD** Oval uplight diffuse lens **VLC** Visible Light Communication (consult factory) **WP6**[5,7] Wired 6' 16/3 cord & NEMA twist lock plug **WC6**[7] Wired 6' 16/3 cord **WC6/4**[7] Wired 6' 16/4 cord for line voltage plus unswitched hot for EMLED **WC6/5**[7] Wired 6' 18/5 cord for line voltage plus 0-10V dimming **WP6D**[5,7] Wired 6' 16/3 cord & NEMA twist lock plug for line voltage and wired 6' purple and gray leads with disconnect plug for dimming control **WC6D**[7] Wired 6' 16/3 cord for line voltage and wired 6' cord for dimming control **SWZCS**[8,9] Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time **SWZCSH**[10] Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time **RADIO** Integral Interact Pro RF sensor, enables wireless connected lighting control **IAOSB**[8,9] Interact Office advanced wireless sensor bundle, integral SC1500 w/IoT capabilities for enterprise scale projects **EM10**[6] Emergency battery (0˚C – 40˚C) **ER100**[11,12] UL924 listed sensor bypass relay, factory installed between driver & sensor (Interact Pro compatible) **ER100/HVPS**[11,12] UL924 listed sensor bypass relay, factory installed between driver & sensor for 347V Power Sense (Interact Pro compatible) **ER100/HVPI**[11,12] UL924 listed sensor bypass relay, factory installed between driver & sensor for 347V Power Interrupt (Interact Pro compatible) **GTD/E**[11] UL924 listed Bodine GTD factory installed on driver input **BAC**[13] Meets the requirements of the Buy American Act of 1933 (BAA)

1 Not for use with FD or UD diffuse lenses.
2 Not available in 3000K.
3 Not available in 9000lm or 18000lm.
4 Not available in 4000lm or 5500lm with EMLED.
5 Must specify voltage.
6 When row mounting, non-switched HOT for EMLED should be fed separately and directly to the emergency luminaire.
7 6' is standard cord length. For optional 10', 15', or 20' cord length, replace the "6" in the option code with the desired length.
8 Low mount motion detector. Use at 10' mounting height or below.
9 Must order IRT9015 Interact commissioning remote with each system order
10 High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
11 Must be installed in conjunction with a UL1008 device.
12 Must be ordered with an integral sensing option.
13 Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC 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.
14 Consult Signify to confirm whether specific accessories are BAA-compliant.

Wiring Notes

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

General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lamp-holders, 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.

Predicted L70 Lifetime

- 40°C Ambient > 100,000 hours
  (based upon LED manufacturer's supplied LM-80 data and in-situ laboratory testing)

DLC LISTED PREMIUM DLC LISTED ETL LISTED interact ready

LBX LED linear suspended

Up to 18,000 lumens

Accessories[14] (order separately)

- **LBX-HANGER BKT –** Hanging bracket (pair)
- **LBX-LVR4 –** 4' White louver (order 2 for eight foot units)
- **FKR-126 –** Two 5' chains and "V" hooks
- **LBX-WG4 –** 4' White wire guard – not for UD lens (order 2 for eight foot units)
- **LBX-WGUD4 –** 4' White wire guard for UD lens (order 2 for eight foot units)
- **IRT9015 –** Handheld remote for grouping and configuration (at least one remote required for any SWZCS/SWZCSH installation)
- **DACH48 –** 48" Adjustable cable hanger kit with white canopy (single)
- **DACH48-1-SC –** 48" Adjustable cable hanger kit with white canopy and white straight 18/3 cord (single)
- **DACH48-2-SC –** 48" Adjustable cable hanger kit with white canopy and white straight 18/4 cord (single)
- **DACH48-1D-SC –** 48" Adjustable cable hanger kit with white canopy and white straight 18/5 cord (single)
- **LBX-RL-FD-4 –** 4' Replacement flat lens
- **LBX-RL-FD-8 –** 8' Replacement flat lens
- **LBX-RL-UD-4 –** 4' Replacement uplight lens
- **LBX-RL-UD-8 –** 8' Replacement uplight lens

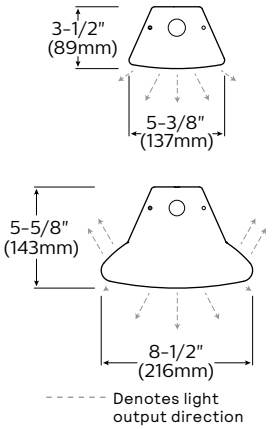
Application

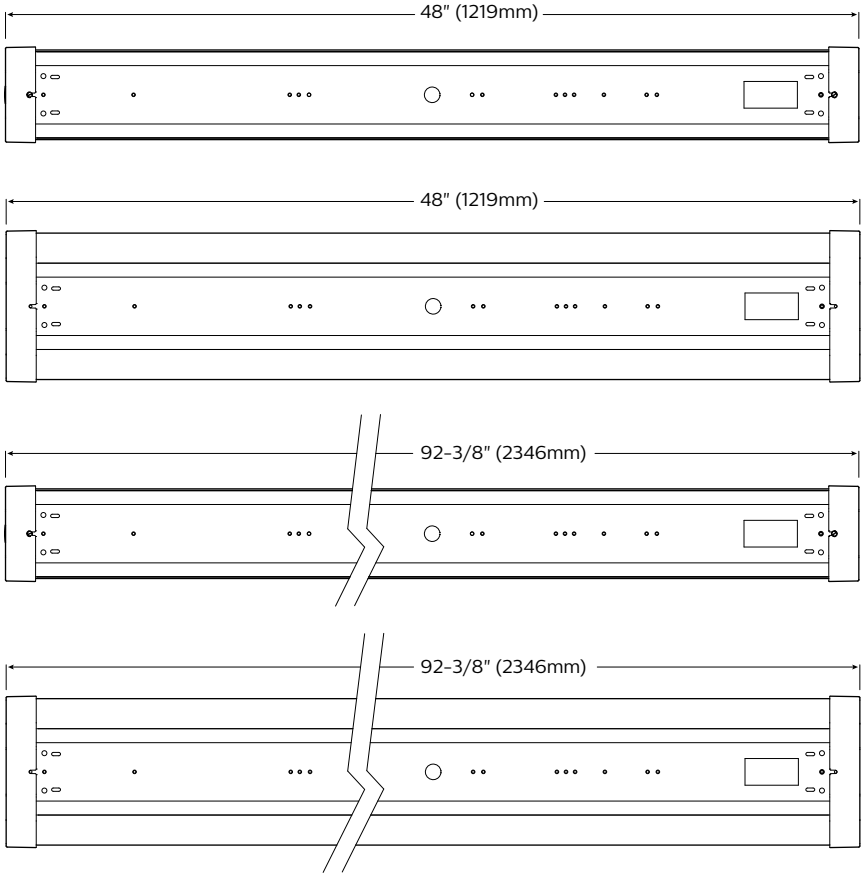
- This luminaire can be used to illuminate retail, grocery, cold storage, manufacturing, warehousing and many other large indoor spaces with control and precision.

Construction/Finish

- Multiple optics available to create precise light distribution.
- Two diffuse lens options for glare control and optional uplight.
- Optional louver available for added aesthetics and glare control when diffuse lens is not used.
- Metal housing provides excellent thermal transfer to extend component life.
- End holes to attach V bracket for chain or cable hanging.
- May be cable, chain, or pendant mounted.
- Easily row mounted without disassembling the luminaire.
- 7/8" K.O. at each end of luminaire for wiring or motion detector.
- Polyester powder finish for excellent impact and corrosion resistance.
- LED light engines and drivers are field replaceable.
- 5 Year Limited Warranty.
- Components are RoHS compliant.
- Listed by ETL to meet UL 1598 standards for damp location and -35°C to 40°C ambient.
- Dimming drivers are standard. Control is 0-10V DC.
- Optional motion detector.
- DLC Listing for most variations. Please check the DLC Qualified Products List to confirm (www.designlights.org/QPL).
- Compatible with visible light communication (VLC). Contact your Philips sales representative for more information.

Dimensions





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Specifications

Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output
- 347V may require step-down transformer and must be ordered indicating Power Sensing or Power Interruption Detection

Controls Options*

Interact radio node for Standalone, Gateway & Gateway + IoT tiers (RA)

- RA sensor option is a connected radio node supporting wireless mesh connectivity.
- Compatible with standalone and gateway modes of Interact.

Interact occupancy & daylight sensor for Standalone, Gateway & Gateway + IoT tiers (CS)

- The CS sensor option is a connected sensor with built-in occupancy and daylight detection, along with wireless mesh connectivity.
- Compatible with standalone and gateway modes of Interact.

Interact advanced sensor bundle for Gateway + IoT tier (SB)

- SB sensor option offers occupancy and daylight sensing and supports advanced IoT capabilities, such as desk-level temperature and humidity monitoring, noise classification, and Bluetooth Low Energy (BLE) beacon functionality.
- Setup requires a compatible gateway and internet connectivity.
- With compatible gateway and software analytics, SB sensor option enables greater building efficiency, seamless system integration, and optimized space utilization through occupancy and environmental insights.

Interact for intelligent buildings sensor option codes across Genlyte product lines*

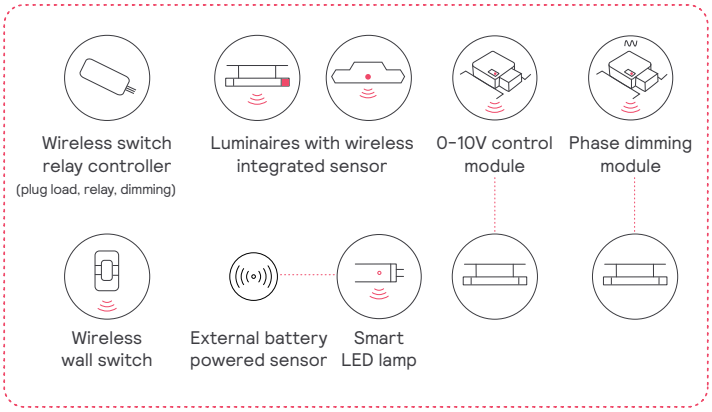
	Sensor part #	Day-Brite	Ledalite	Lightolier
Zigbee + Bluetooth	SC100B	RADIO	RA	RA
Zigbee + Bluetooth + Sensing	SC200B	SWZCS	CS	SBA or SWCS accessory
Zigbee + Bluetooth + Sensing + Environmental data	SC1500	IAOSB	SB	SBA or SWCS accessory
Zigbee + Highbay + Bluetooth + Sensing	SNH210 IA	SWZCSH	–	–

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signify interact

Easy. Effective. Smart.



Meet Interact

A smart, wireless luminaire level lighting control system (LLLC). A complete solution that combines modern and intuitive technologies for easy installation and specification.

- Works with or without gateway
- **No** IT
- **No** light point restrictions
- **Up to 75%** out of the box savings
- **Fast** & **easy**
- **Code** & **rebates** compliant

Capabilities

- Luminaire integrated occupancy and daylight sensing
- BMS integration
- Human-centric lighting
- Connectivity & insights
- Full Automation*
- Security

*Grouping, zoning, dimming, high-end trimming, scenes, scheduling, manual controls

Benefits

Up to 80% installation savings[1]

Compared to installation costs of wired systems

Up to 5 min faster setup time[2]

Compared to similar wireless systems

Less than 2 year payback

Implement deep energy-saving stategies and claim utility rebates

1.8x more energy savings

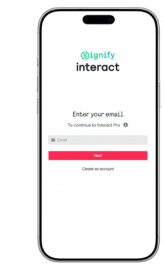
Compared to conventional control systems

Up to 2x utility rebates

Network Interact ready devices and get more utility rebates[3]

1. Versus legacy systems based on installer interviews
2. Based on installer analysis done by Signify for a typical multi-zone space
3. Utility programs across US

Just lights and an App



1. Install the Interact ready fixtures with embedded smart sensor
2. Install the wireless wall switch
3. Configure your setup with the Interact App
4. Leverage the IRT9015 remote accessory to accelerate your setup process
5. Optionally add a gateway for insights and management

Learn more about Interact:

Interact includes an app, a web portal, and a comprehensive range of Interact ready wireless luminaires, lamps, retrofit kits, and control devices like switches and sensors that operate within the same system.

LBX LED linear suspended

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Configurations



Foundation: base unit with no optics, no lens. Ideal for “back of house” areas such as storage or utility spaces.



High performance: base unit with LightBalance optics, no lens, and a choice of narrow, medium, wide, or aisle optics.



Brightness control: base unit with louver. Field installed louver compatible with foundation or performance versions



Flat diffuse: base unit with flat lens. Ideal for retailers who want good performance, brightness control, and a minimal profile.



Uplight diffuse: base unit with oval lens and uplight. Ideal for retailers who want good performance and some uplight.

Options



Occupancy sensor



Hanging brackets



V bracket and chain

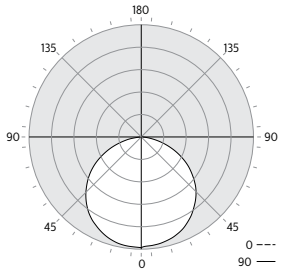
LBX LED linear suspended

Up to 18,000 lumens

LED linear suspended LBX, general distribution, 4,000 nominal delivered lumens

Catalog No. LBX40L840-UNV

Report no: 35816



Spacing criterion:	1.3	Input watts:	31
Lamp:	LED	Efficacy:	150 lm/W
Output lumens:	4655 lm		

Comparative yearly lighting energy cost per 1000 lumens – **$1.60** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candela distribution

	Horizontal Angle			
	0°	45°	90°	-45°
0	1567	1567	1567	1567
5	1545	1559	1580	1559
15	1505	1524	1537	1524
25	1420	1432	1442	1432
35	1275	1300	1298	1300
45	1096	1108	1109	1108
55	862	880	877	880
65	591	603	604	603
75	298	308	312	308
85	53	10	7	10
95	0	0	0	0
105	0	0	0	0
115	0	0	0	0
125	0	0	0	0
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0

Light Distribution

	Lumens	% Luminaire
0-30	1240	26.6
0-40	2049	44.0
0-60	3683	79.1
0-90	4655	100.0
90-120	0.0	0.0

Average Luminance

Angle	End	45°	Cross
45		10758.	10767.
55	10310.	10527.	10491.
65	9598.	9801.	9811.
75	7893.	8174.	8270.
85	4182.	772.	583.

Coefficients of Utilization

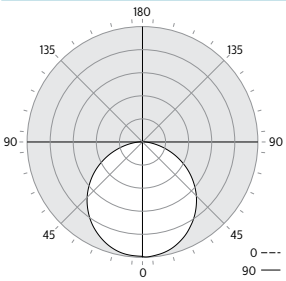
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%	
Wall (pw)	70	50	30	70	50	30	50	30
RCR	Zonal cavity method - Effective floor reflectance = 20%							

LED linear suspended LBX, flat diffuse lens distribution, 4,000 nominal delivered lumens

Catalog No. LBX40L840-UNV-FD

Report no: 35921



Spacing criterion:	1.3	Input watts:	31
Lamp:	LED	Efficacy:	128 lm/W
Output lumens:	3948		

Comparative yearly lighting energy cost per 1000 lumens – **$1.88** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candela distribution

	Horizontal Angle			
	0°	45°	90°	-45°
0	1367	1367	1367	1367
5	1346	1362	1371	1362
15	1301	1320	1327	1320
25	1210	1223	1231	1223
35	1075	1089	1094	1089
45	907	920	924	920
55	709	721	724	721
65	486	496	501	496
75	252	264	273	264
85	50	70	87	70
95	0	0	0	0
105	0	0	0	0
115	0	0	0	0
125	0	0	0	0
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0

Light Distribution

	Lumens	% Luminaire
0-30	1065	27.0
0-40	1746	44.2
0-60	3095	78.4
0-90	3945	99.9
90-120	2.0	0.1

Average Luminance

Angle	End	45°	Cross
45	8808.	8931.	8972.
55	8486.	8624.	8665.
65	7894.	8058.	8139.
75	6681.	6991.	7233.
85	3914.	5474.	6844.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%	
Wall (pw)	70	50	30	70	50	30	50	30
RCR	Zonal cavity method - Effective floor reflectance = 20%							

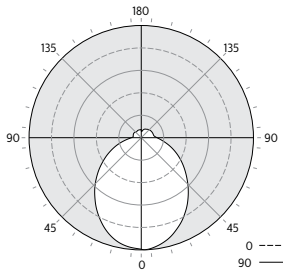
LBX LED linear suspended

Up to 18,000 lumens

LED linear suspended LBX, oval lens uplight distribution, 4,000 nominal delivered lumens

Catalog No. LBX40L840-UNV-UD

Report no: 35833



Spacing criterion:	1.2	Input watts:	31
Lamp:	LED	Efficacy:	137lm/W
Output lumens:	4167lm		

Comparative yearly lighting energy cost per 1000 lumens – **$1.75** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candela distribution

	Horizontal Angle			
	0°	45°	90°	-45°
0	1324	1324	1324	1324
5	1308	1310	1321	1310
15	1246	1245	1243	1245
25	1127	1112	1114	1112
35	962	947	956	947
45	773	770	783	770
55	573	589	621	589
65	375	420	474	420
75	185	268	337	268
85	31	149	225	149
95	0	98	162	98
105	15	98	148	98
115	29	101	145	101
125	39	100	140	100
135	51	93	132	93
145	67	90	121	90
155	81	94	112	94
165	92	95	96	95
175	100	95	72	95

Light Distribution

	Lumens	% Luminaire
0-30	991	23.8
0-40	1590	38.1
0-60	2721	65.3
0-90	3578	85.9
90-120	292	7.0

Average Luminance

Angle	End	45°	Cross
45		3682.	3628.
55	3811.	3240.	3276.
65	3281.	2820.	3008.
75	2474.	2402.	2788.
85	950.	2100.	2804.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceiling (pcc)	80%			70%			50%	
Wall (pw)	70	50	30	70	50	30	50	30
RCR	Zonal cavity method - Effective floor reflectance = 20%							

LBX LED linear suspended

Up to 18,000 lumens

Photometric Test List

Catalog No.	Test No.	Delivered Lumens	Input Watts*	Efficacy*
LBX40L840-UNV	35816	4655	31	150
LBX40L840-UNV-FD	35921	3948	31	128
LBX40L840-UNV-UD	35833	4167	31	143
LBX40L840-UNV-LVR4	35821	4408	31	142
LBX40L840-UNV-N	35823	4585	31	148
LBX40L840-UNV-N-LVR4	35822	4436	31	143
LBX40L840-UNV-M	35825	4599	31	148
LBX40L840-UNV-M-LVR4	35824	4431	31	143
LBX40L840-UNV-W	35827	4574	31	148
LBX40L840-UNV-W-LVR4	35826	4354	31	141
LBX40L840-UNV-A	35829	4656	31	151
LBX40L840-UNV-A-LVR4	35828	4429	31	143
LBX55L840-UNV	35945	6176	41	150
LBX55L840-UNV-FD	36114	5221	41	127
LBX55L840-UNV-UD	36099	5562	41	135
LBX55L840-UNV-LVR4	36115	5828	41	142
LBX55L840-UNV-N	36118	6074	41	148
LBX55L840-UNV-N-LVR4	36119	5890	41	143
LBX55L840-UNV-M	36122	6059	41	148
LBX55L840-UNV-M-LVR4	36123	5852	41	143
LBX55L840-UNV-W	36126	6039	41	147
LBX55L840-UNV-W-LVR4	36127	5739	41	140
LBX55L840-UNV-A	36130	6027	41	147
LBX55L840-UNV-A-LVR4	36131	5795	41	141

Catalog No.	Test No.	Delivered Lumens	Input Watts*	Efficacy*
LBX70L840-UNV	35953	7906	53	148
LBX70L840-UNV-FD	36113	6678	53	137
LBX70L840-UNV-UD	36100	7096	53	133
LBX70L840-UNV-LVR4	36116	7453	53	139
LBX70L840-UNV-N	36117	7783	53	146
LBX70L840-UNV-N-LVR4	36120	7537	53	141
LBX70L840-UNV-M	36121	7768	53	145
LBX70L840-UNV-M-LVR4	36124	7473	53	140
LBX70L840-UNV-W	36125	7747	53	145
LBX70L840-UNV-W-LVR4	36128	7333	53	137
LBX70L840-UNV-A	36129	7776	53	146
LBX70L840-UNV-A-LVR4	36132	7457	53	140
LBX90L840-UNV	35975	9919	66	150
LBX90L840-UNV-FD	35974	8388	66	134
LBX90L840-UNV-UD	36045	9039	66	137
LBX90L840-UNV-LVR4	36035	9423	66	143
LBX90L840-UNV-N	36037	9787	66	149
LBX90L840-UNV-N-LVR4	36036	9482	66	144
LBX90L840-UNV-M	36039	9787	66	149
LBX90L840-UNV-M-LVR4	36038	9452	66	143
LBX90L840-UNV-W	36041	9730	66	148
LBX90L840-UNV-W-LVR4	36040	9265	66	141
LBX90L840-UNV-A	36043	9850	66	149
LBX90L840-UNV-A-LVR4	36042	9524	66	144

* 347V models have the same input watts

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GENLYTE SOLUTIONS
a signify business

Signify North America Corp.
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone: 800-555-0050

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone: 800-668-9008

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