

SYLVANIA Lamps

DULUX® LED Pin Base Lamps

LED replacement for conventional Compact Fluorescent Lamps for use in ECG luminaires or directly on line voltage

Application

DULUX LED Pin Based lamps are an energy saving alternative, designed to replace traditional compact fluorescent lamps. These LED lamps contain no mercury, and provide instant light and a uniform light distribution. These lamps are offered in SubstiTUBE® (UL Type A/ballast compatible), LEDlescent™ (UL Type B/ballast-free), or DUALescent™ (UL Type A+B), depending on which family/wattage is chosen. These lamps also minimize labor and recycling costs.

Benefits and Features

- DLC listed lamps allow for rebates in areas where applicable, saving on overall project cost
- System LPW varies from 93 to 134
- CRI >80
- Offered in 3.5, 5.5, 6, 7, 8, 8.5, 9.5, 15 or 16 watts
- Available beam angle:
 - Omnidirectional lamps with 360° beam angle and light emitting angle of 360°
 - High output lamps with either 110° or 120° beam angle and light emitting angle of 260°
 - CCT Selectable lamps with either 110° or 120° beam angle and light emitting angle of 150° or 360°
 - Ultra thin beam angle 160°, and light emitting area 320°
- Energy savings up to 68%
- Can be used in enclosed (lens or diffuser) luminaire. Not approved for use in vapor tight or sealed luminaire.

Electrical

- SubstiTUBE lamps are compatible with electronic (4-pin) or magnetic (2-pin GX23) ballast; LEDlescent lamps are operated directly wired to line voltage; DUALescent can be operated either on magnetic ballasts or directly wired to line voltage, either 2-pin or 4-pin lamp holders
- Lamps with "DIM" in the description are 0-10V dimmable with select compatible 0-10V dimming ballasts
- Power Factor >0.9
- THD <20%
- When operating in UL Type B mode, lamps are compatible with LEDVANCE Emergency Battery Backup (75740)



Emergency Battery Backup Information

Rated Life

- 50,000 hours (L₇₀)



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
CF42DT/E w/QTP2X26/32/42CF/UNV DM	94	30	68%
CF32DT/E w/QTP2X26/32/42CF/UNV DM	69	30	57%
CF26DD/E w/QTP2X26/CF/UNV DM	54	19	65%
CF18DD/E w/QTP1/2X18CF/UNV DM	38	14	63%
CF26DD/E w/QTP2X26/CF/UNV DM	54	19	65%
CF42DT/E w/QTP2X26/32/42CF/UNV DM	94	31	67%
CF32DT/E w/QTP2X26/32/42CF/UNV DM	69	33	52%
CF26DD w/C2642UNVME	26	8.5	67%
CF18DD w/C218UNVME	18	7	61%
CF26DD w/C2642UNVME	26	9	65%
CF7DS/8XX or CF9DS/8XX	7	3.5	50%
CF13DS/8XX	13	5.5	58%
CF7DS/E/8XX or CF9DS/E/8XX	7	3.5	50%
CF13DS/E/8XX	13	5.5	58%

*Energy savings over life of lamp calculated at \$0.11/kWh

Warranty

- 5 year limited lamp warranty (24/7 operation)
- NLB Trusted Warranty Program

Ambient Operating Range

- -4°F to +104°F (-20°C to +40°C)

Certifications and Listings

- cULus (UL1598c, UL1993, & CSA 22.2 for UL Type B & Type A+B; UL1993 & CSA 22.2 for Type A)
- DLC 5.1 for some lamps
- RoHS
- NSF Listed: NSF/ANSI Standard 2 – Food Equipment
- FCC Title 47 CFR, Part 15 Non-Consumer (UL Type B & UL Type A+B) or Part 18 Non-Consumer (UL Type A), ICES
- Mercury Free



LED581R11 11-24



Catalog #	Type
Project	
Comments	
Prepared by	

Installation

Please refer to the installation manual included inside the packaging for more information.

Ordering Guide

LED	XX	PB	XXXX	X	DIM	8	XX	XXX
Product Name	Wattage	Pin Base	Base Type	Orientation	Dimmable	CRI	Color Temperature	UL Type
LED = LED Technology	3.5 = 3.5W 5.5 = 5.5W 6 = 6W 7 = 7W 8.5 = 8.5W 9 = 9W 9.5 = 9.5W 15 = 15W 16 = 16W		2G7 = 4-pin 2GX7 = 4-pin G23 = 2-pin GX23 = 2-pin G24D = 2-pin G24Q = 4-pin	V = Vertical H = Horizontal O = Omnidirectional		8 = 80+	27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K SC1 = CCT Selectable 3000K/3500K/4100K	UL Type BF = Type B SUB = Type A AB = Type AB

Ordering Information

Item Number	Ordering Abbreviation	Lamp Wattage (W)	Base Type	Replaces	Input Voltage (V)	Avg. Life (hrs)	CCT	Typical Lumens (lm)	CRI	Power Factor	Bulb Finish	Case Qty.	DLC Listed*
SubstiTUBE® High Output													
41705****	LED15PBG24QHDIM830SUB	15	G24Q/GX24Q	CF42DT/E	Ballast dependent	50,000	3000K	1900	80+	>0.9	Plastic	24	5.1
41706**	LED15PBG24QVDIM830SUB	15	G24Q/GX24Q	CF42DT/E	Ballast dependent	50,000	3000K	2000	80+	>0.9	Plastic	24	5.1
41707****	LED15PBG24QHDIM835SUB	15	G24Q/GX24Q	CF42DT/E	Ballast dependent	50,000	3500K	1900	80+	>0.9	Plastic	24	5.1
41708**	LED15PBG24QVDIM835SUB	15	G24Q/GX24Q	CF42DT/E	Ballast dependent	50,000	3500K	2000	80+	>0.9	Plastic	24	5.1
41709****	LED15PBG24QHDIM841SUB	15	G24Q/GX24Q	CF42DT/E	Ballast dependent	50,000	4100K	1900	80+	>0.9	Plastic	24	5.1
41710**	LED15PBG24QVDIM841SUB	15	G24Q/GX24Q	CF42DT/E	Ballast dependent	50,000	4100K	2000	80+	>0.9	Plastic	24	5.1
SubstiTUBE CCT Selectable													
41701****	LED9.5PBG24QHDIM8SC1SUB	9.5	G24Q/GX24Q	CF26DD/E	Ballast dependent	50,000	3000K, 3500K, 4100K	960, 1020, 1050	80+	>0.9	Plastic	24	5.1
41702**	LED9.5PBG24QVDIM8SC1SUB	9.5	G24Q/GX24Q	CF26DD/E	Ballast dependent	50,000	3000K, 3500K, 4100K	1100, 1120, 1150	80+	>0.9	Plastic	24	5.1
SubstiTUBE Omnidirectional													
41711†	LED7PBG24QODIM827SUB	7	G24Q/GX24Q	CF18DD/E	Ballast dependent	50,000	2700K	820	80+	>0.9	Plastic	24	N/A
41712†	LED7PBG24QODIM830SUB	7	G24Q/GX24Q	CF18DD/E	Ballast dependent	50,000	3000K	820	80+	>0.9	Plastic	24	N/A
41713†	LED7PBG24QODIM835SUB	7	G24Q/GX24Q	CF18DD/E	Ballast dependent	50,000	3500K	820	80+	>0.9	Plastic	24	N/A
41714†	LED7PBG24QODIM841SUB	7	G24Q/GX24Q	CF18DD/E	Ballast dependent	50,000	4100K	820	80+	>0.9	Plastic	24	N/A
41715†	LED9.5PBG24QODIM827SUB	9.5	G24Q/GX24Q	CF26DD/E	Ballast dependent	50,000	2700K	1200	80+	>0.9	Plastic	24	N/A
41716†	LED9.5PBG24QODIM830SUB	9.5	G24Q/GX24Q	CF26DD/E	Ballast dependent	50,000	3000K	1200	80+	>0.9	Plastic	24	N/A
41717†	LED9.5PBG24QODIM835SUB	9.5	G24Q/GX24Q	CF26DD/E	Ballast dependent	50,000	3500K	1200	80+	>0.9	Plastic	24	N/A
41718†	LED9.5PBG24QODIM841SUB	9.5	G24Q/GX24Q	CF26DD/E	Ballast dependent	50,000	4100K	1200	80+	>0.9	Plastic	24	N/A
LEDlescent™ High Output													
41695†***	LED15PBG24DH830BF	15	G24D/G24Q/GX24Q	CF42DT/E	120-277	50,000	3000K	1900	80+	>0.9	Plastic	24	N/A
41697†***	LED15PBG24DH835BF	15	G24D/G24Q/GX24Q	CF42DT/E	120-277	50,000	3500K	1900	80+	>0.9	Plastic	24	N/A
41699†***	LED15PBG24DH841BF	15	G24D/G24Q/GX24Q	CF42DT/E	120-277	50,000	4100K	1900	80+	>0.9	Plastic	24	N/A
41696†	LED16PBG24DV830BF	16	G24D/G24Q/GX24Q	CF42DT/E	120-277	50,000	3000K	2000	80+	>0.9	Plastic	24	N/A
41698†	LED16PBG24DV835BF	16	G24D/G24Q/GX24Q	CF42DT/E	120-277	50,000	3500K	2000	80+	>0.9	Plastic	24	N/A
41700†	LED16PBG24DV841BF	16	G24D/G24Q/GX24Q	CF42DT/E	120-277	50,000	4100K	2000	80+	>0.9	Plastic	24	N/A
LEDlescent Ultra Thin													
42068**	LED3.5PB2G7H827BF	3.5	2G7	CF7DS/E or CF9DS/E	120-277	50,000	2700K	330	80+	>0.9	Plastic	24	N/A
42069**	LED3.5PB2G7H830BF	3.5	2G7	CF7DS/E or CF9DS/E	120-277	50,000	3000K	340	80+	>0.9	Plastic	24	N/A
42070**	LED3.5PB2G7H835BF	3.5	2G7	CF7DS/E or CF9DS/E	120-277	50,000	3500K	350	80+	>0.9	Plastic	24	N/A
42071**	LED3.5PB2G7H841BF	3.5	2G7	CF7DS/E or CF9DS/E	120-277	50,000	4100K	360	80+	>0.9	Plastic	24	N/A

*No DLC category for lamps with N/A

**Can be used in enclosed (lens or diffuser) luminaire. Not approved for use in vapor tight or sealed luminaire.

***Products indicated have rotatable bases for adjusting direction of light output

†Not suitable for use in enclosed (lens or diffuser) luminaire. Not approved to use in vapor tight or sealed luminaire.

Ordering Information (continued)

Item Number	Ordering Abbreviation	Lamp Wattage (W)	Base Type	Replaces	Input Voltage (V)	Avg. Life (hrs)	CCT	Typical Lumens (lm)	CRI	Power Factor	Bulb Finish	Case Qty.	DLC Listed*
LEDlescent™ Ultra Thin (continued)													
42072**	LED5.5PB2GX7H827BF	5.5	2GX7	CF13DS/E	120-277	50,000	2700K	550	80+	>0.9	Plastic	24	N/A
42073**	LED5.5PB2GX7H830BF	5.5	2GX7	CF13DS/E	120-277	50,000	3000K	550	80+	>0.9	Plastic	24	N/A
42074**	LED5.5PB2GX7H835BF	5.5	2GX7	CF13DS/E	120-277	50,000	3500K	570	80+	>0.9	Plastic	24	N/A
42075**	LED5.5PB2GX7H841BF	5.5	2GX7	CF13DS/E	120-277	50,000	4100K	590	80+	>0.9	Plastic	24	N/A
DUALescent™ CCT Selectable													
41691*****	LED8.5PBG24DH8SC1AB	8.5	G24D/G24Q/GX24Q	CF26DD	Ballast dependent or 120-277	50,000	3000K, 3500K, 4100K	960, 1020, 1050	80+	>0.9	Plastic	24	N/A
41692**	LED8.5PBG24DV8SC1AB	8.5	G24D/G24Q/GX24Q	CF26DD	Ballast dependent or 120-277	50,000	3000K, 3500K, 4100K	1100, 1120, 1150	80+	>0.9	Plastic	24	N/A
DUALescent Omnidirectional													
41719**	LED7PBG24D0827AB	7	G24D/G24Q/GX24Q	CF18DD	Ballast dependent or 120-277	50,000	2700K	830	80+	>0.9	Plastic	24	N/A
41720**	LED7PBG24D0830AB	7	G24D/G24Q/GX24Q	CF18DD	Ballast dependent or 120-277	50,000	3000K	880	80+	>0.9	Plastic	24	N/A
41721**	LED7PBG24D0835AB	7	G24D/G24Q/GX24Q	CF18DD	Ballast dependent or 120-277	50,000	3500K	880	80+	>0.9	Plastic	24	N/A
41722**	LED7PBG24D0841AB	7	G24D/G24Q/GX24Q	CF18DD	Ballast dependent or 120-277	50,000	4100K	900	80+	>0.9	Plastic	24	N/A
41723**	LED9PBG24D0827AB	9	G24D/G24Q/GX24Q	CF26DD	Ballast dependent or 120-277	50,000	2700K	1150	80+	>0.9	Plastic	24	N/A
41724**	LED9PBG24D0830AB	9	G24D/G24Q/GX24Q	CF26DD	Ballast dependent or 120-277	50,000	3000K	1200	80+	>0.9	Plastic	24	N/A
41725**	LED9PBG24D0835AB	9	G24D/G24Q/GX24Q	CF26DD	Ballast dependent or 120-277	50,000	3500K	1250	80+	>0.9	Plastic	24	N/A
41726**	LED9PBG24D0841AB	9	G24D/G24Q/GX24Q	CF26DD	Ballast dependent or 120-277	50,000	4100K	1250	80+	>0.9	Plastic	24	N/A
DUALescent Ultra Thin													
42060**	LED3.5PBG23H827AB	3.5	G23	CF7DS or CF9DS	Ballast dependent or 120-277	50,000	2700K	330	80+	>0.9	Plastic	24	N/A
42061**	LED3.5PBG23H830AB	3.5	G23	CF7DS or CF9DS	Ballast dependent or 120-277	50,000	3000K	340	80+	>0.9	Plastic	24	N/A
42062**	LED3.5PBG23H835AB	3.5	G23	CF7DS or CF9DS	Ballast dependent or 120-277	50,000	3500K	350	80+	>0.9	Plastic	24	N/A
42063**	LED3.5PBG23H841AB	3.5	G23	CF7DS or CF9DS	Ballast dependent or 120-277	50,000	4100K	360	80+	>0.9	Plastic	24	N/A
42064**	LED5.5PBGX23H827AB	5.5	GX23	CF13DS	Ballast dependent or 120-277	50,000	2700K	550	80+	>0.9	Plastic	24	N/A
42065**	LED5.5PBGX23H830AB	5.5	GX23	CF13DS	Ballast dependent or 120-277	50,000	3000K	550	80+	>0.9	Plastic	24	N/A
42066**	LED5.5PBGX23H835AB	5.5	GX23	CF13DS	Ballast dependent or 120-277	50,000	3500K	570	80+	>0.9	Plastic	24	N/A
42067**	LED5.5PBGX23H841AB	5.5	GX23	CF13DS	Ballast dependent or 120-277	50,000	4100K	590	80+	>0.9	Plastic	24	N/A

*No DLC category for lamps with N/A

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Specifications & Lighting Data

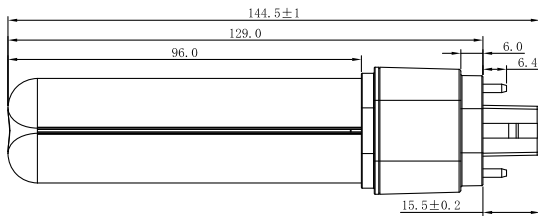
Lamp	Ballast	Current (AMPS) (120V/277V)	System Power (W)	System Lumens (lm)*	System Efficacy (lm/W)	No of Lamps
LED15PBG24Q(HD)IM8XXSUB	Type A	0.25/0.11	30	3800	127	2
LED15PBG24QVDIM8XXSUB	Type A	0.25/0.11	30	4000	133	2
LED15PBG24DH8XXBF	Type B	0.25/0.16	30	3800	137	2
LED16PBG24DV8XXBF	Type B	0.27/0.11	32	4000	125	2
LED9.5PBG24QHDIM8SC1SUB	Type A	0.08/0.03	9.5	1150	121	1
LED9.5PBG24QVDIM8SC1SUB	Type A	0.08/0.03	9.5	1200	126	1
LED8.5PBG24DH8SC1AB	Type AB	0.07/0.03	8.5	1050	124	1
LED8.5PBG24DV8SC1AB	Type AB	0.07/0.03	8.5	1150	135	1
LED7PBG24QDDIM8XXSUB	Type A	0.06/0.03	7	820	117	1
LED9.5PBG24QDDIM8XXSUB	Type A	0.08/0.03	9.5	1200	126	1
LED7PBG24D08XXAB	Type AB	0.06/0.03	7	820	117	1
LED9PBG24D08XXAB	Type AB	0.08/0.03	9	1200	133	1
LED3.5PBG23H8XXAB	Type AB	0.03/0.01	3.5	340	97	1
LED5.5PBGX23H8XXAB	Type AB	0.05/0.02	5.5	550	100	1
LED3.5PB2G7H8XXBF	Type B	0.03/0.01	3.5	340	97	1
LED5.5PB2GX7H8XXBF	Type B	0.05/0.02	5.5	550	100	1

*Lumen at 4100K CCT.

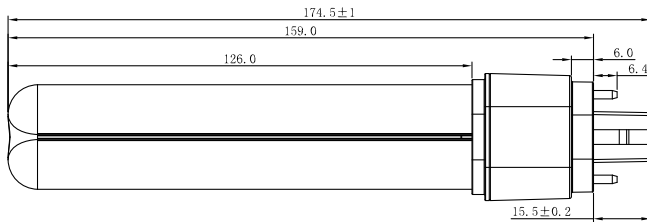
Physical Information

Lamp Description	Max. Overall Length inch (mm)	Base Face to Top of Lamp inch (mm)	Nominal lamp Diameter/Width inch (mm)	Guide Post Length inch (mm)
LED15PBG24QHDIM8XXSUB	6.65 (169)	6.04 (153.5)	1.77 (45)	0.61 (15.5)
LED15PBG24QVDIM8XXSUB	6.40 (162.5)	5.79 (147)	3.46 (88)	0.61 (15.5)
LED15PBG24DH8XXBF	6.65 (169)	6.04 (153.5)	1.77 (45)	0.61 (15.5)
LED16PBG24DV8XXBF	6.40 (162.5)	5.79 (147)	3.46 (88)	0.61 (15.5)
LED9.5PBG24QHDIM8SC1SUB	6.35 (161.4)	5.74 (145.9)	1.31 (33.2)	0.61 (15.5)
LED9.5PBG24QVDIM8SC1SUB	5.11 (130)	4.51 (114.5)	2.76 (70)	0.61 (15.5)
LED8.5PBG24DH8SC1AB	6.35 (161.4)	5.74 (145.9)	1.31 (33.2)	0.61 (15.5)
LED8.5PBG24DV8SC1AB	5.11 (130)	4.51 (114.5)	2.76 (70)	0.61 (15.5)
LED7PGG24QODIM8XXSUB	5.69 (144.5)	5.09 (129)	1.36 (34.5)	0.61 (15.5)
LED9.5PBG24QODIM8XXSUB	6.87 (174.5)	6.26 (159)	1.36 (34.5)	0.61 (15.5)
LED7PBG24D08XXAB	5.69 (144.5)	5.09 (129)	1.36 (34.5)	0.61 (15.5)
LED9PBG24D08XXAB	6.87 (174.5)	6.26 (159)	1.36 (34.5)	0.61 (15.5)
LED6PBGX238XX	6.77 (172)	6.18 (157)	1.06 (27)	0.59 (15)
LED3.5PBG23H8XXAB	5.28 (134)	4.49 (114)	1.26 (32)	0.79 (20)
LED5.5PBGX23H8XXAB	7.05 (179)	6.26 (159)	1.26 (32)	0.79 (20)
LED3.5PB2G7H8XXBF	4.74 (120.4)	4.49 (114)	1.46 (37)	N/A
LED5.5PB2GX7H8XXBF	6.51 (165.4)	6.26 (159)	1.46 (37)	N/A

7W Omnidirectional SubstiTUBE® and DUALescent™

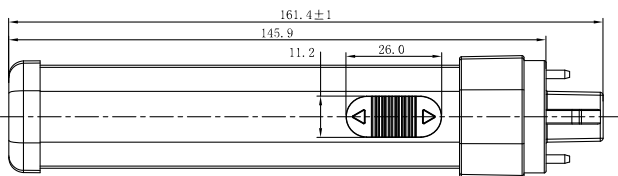


9W Omnidirectional SubstiTUBE and DUALescent

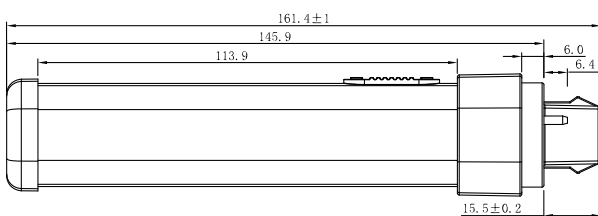


CCT Selectable UL Type A SubstiTUBE® and UL Type A+B DUALescent™ Horizontal

Front View

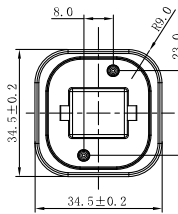


Side View

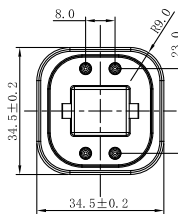


Dimensions in mm

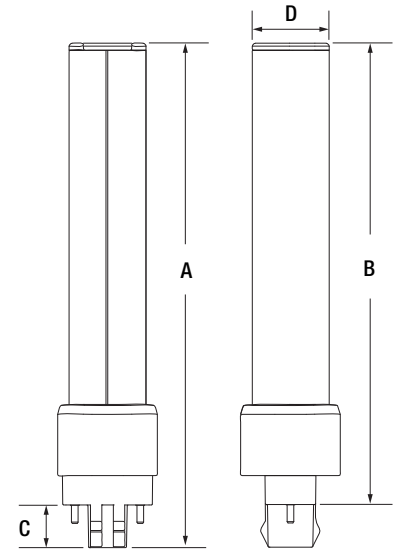
DUALescent UL Type A+B Base – G24d



SubstiTUBE UL Type A Base – G24q

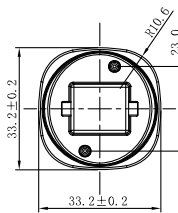


6W SubstiTUBE Base – GX23



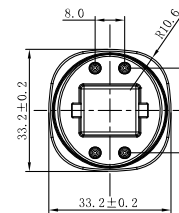
Rotatable Base

DUALescent UL Type A+B Base – G24d



Rotatable Base

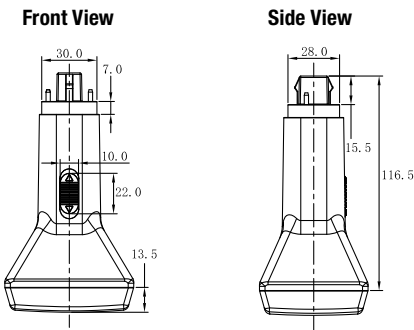
SubstiTUBE UL Type A Base – G24q



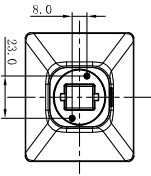
Rotatable Base

Physical Information (continued)

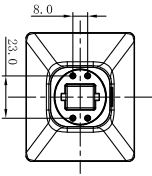
CCT Selectable UL Type A SubstiTUBE and
UL Type A+B DUALescent Vertical



DUALescent UL Type A+B
Base – G24d

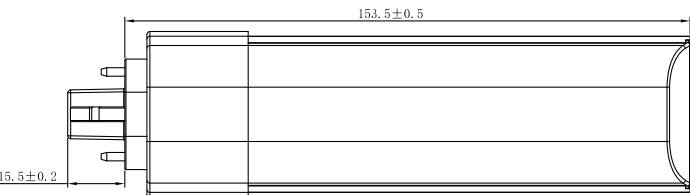


SubstiTUBE UL Type A
Base – G24q

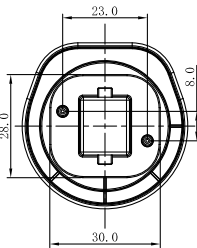


High Output UL Type A SubstiTUBE® and
UL Type B LEDlescent™ Horizontal

Front View

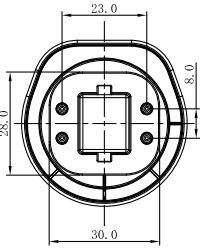


LEDlescent UL Type B
Base – G24d



Rotatable Base

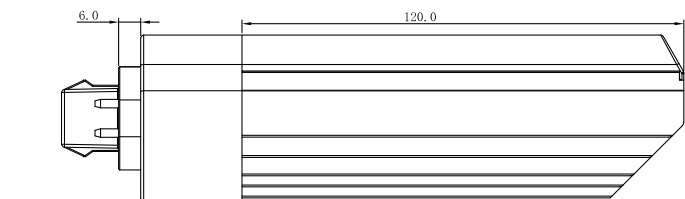
SubstiTUBE UL Type A
Base – G24q



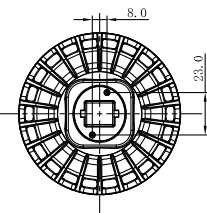
Rotatable Base

High Output SubstiTUBE UL Type A and
LEDlescent UL Type B Horizontal

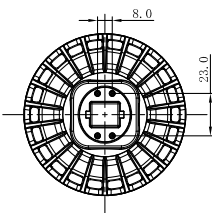
Side View



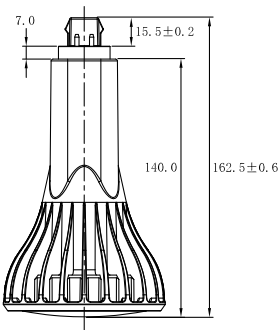
LEDlescent UL Type B
Base – G24d



SubstiTUBE UL Type A
Base – G24q

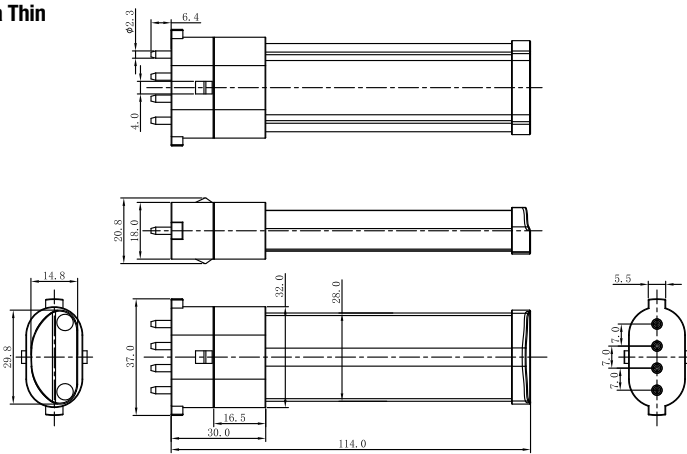


High Output SubstiTUBE UL Type A
and LEDlescent UL Type B Vertical



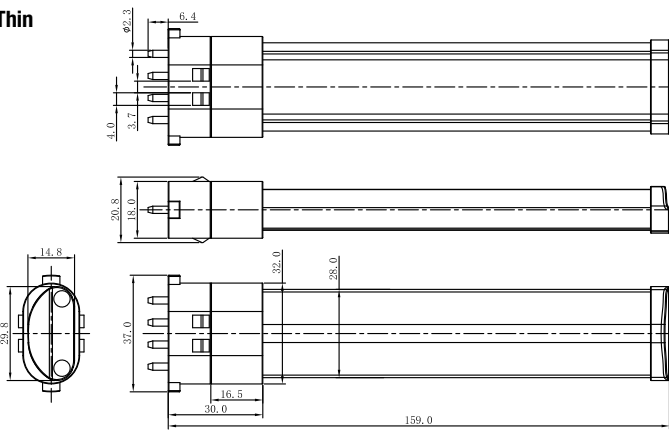
Physical Information (continued)

LEDlescent™ Ultra Thin for 2G7



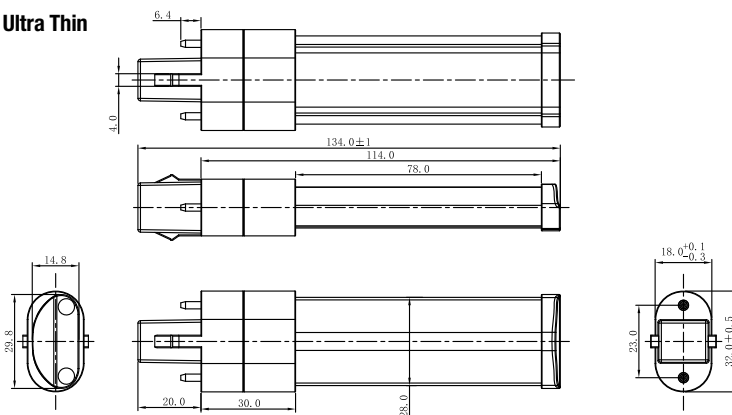
**LEDlescent UL Type B
Base – 2G7**

LEDlescent Ultra Thin for 2GX7



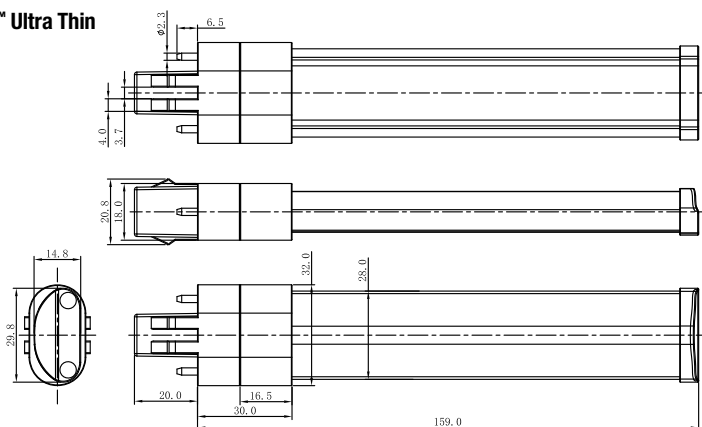
**LEDlescent UL Type B
Base – 2GX7**

DUALescent™ Ultra Thin for G23



**DUALescent UL Type A+B
Base – G23**

DUALescent™ Ultra Thin for GX23



**DUALescent UL Type A+B
Base – GX23**

Dimensions in mm

Specifications

EMI/RFI: FCC Title 47 CFR, Part 18, Non-Consumer

Ordering Guide

LED	16	/	PB	/	GX24	/	H	/	8	35
LED Lamp	Wattage		Pin Base		Base Type		Orientation		CRI= 80+	Color Temperature

Ordering Information

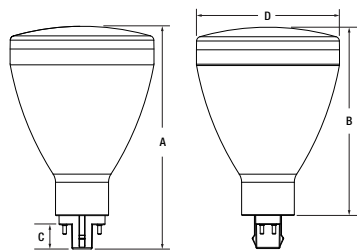
Item Number	Ordering Abbreviation	Configuration	Wattage	Lumens (lm)	CCT	CRI	DIM	DLC (Y/N)
40407*	LED16/PB/GX24Q/H/830	Horizontal	16W	1750	3000K	80	No	Y
40412*	LED16/PB/GX24Q/V/835	Vertical	16W	1750	3500K	80	No	Y
40413*	LED16/PB/GX24Q/V/841	Vertical	16W	1850	4100K	80	No	Y

*The above lamps will be phasing out with the introduction of our new portfolio. Upon depletion of inventory, the lamps will be obsolete.

Highlighted NAEDs have have rotatable bases

Lamp Dimensions

16W GX24Q Vertical



Ordering Abbreviation	(A) Max. Overall Length	(B) Base Face to Top of Lamp	(C) Guide Post Length	(D) Max. Base Width (Front)
16W GX24Q Vertical	5.81" (147.5mm)	5.18" (131.5mm)	.63" (16mm)	3.74" (95mm)

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