

Calculite Compact Fluorescent Downlighting **Ballast**

This specification sheet serves as a reference for all Calculite Compact Fluorescent specification sheets. Please note: Products may not be available for all combinations in the frame. Please visit the website product specific information.

Compact Fluorescent Frame-In Kit Numbering System

Aper. Dia.	# Lamps	Lamp	Lamp Orientation	Ballast Type and Voltage
4 4 1/2"	1	13 13W TT/QT	H Horizontal	M120 Magnetic 2-Pin QT/TT, 120V
6 6" Die-Cast	2	18 18W QT/TTT	V Vertical	M277 Magnetic 2-Pin QT/TT, 277V
S6 6" Steel Frame				
7 7" Die-Cast		26 26W QT/TTT	B Both Hor. & Vert.	U Electronic 4-Pin QT/TTT/TT, 120-277V
S7 7" Steel Frame				
8 8 3/4" Die-Cast				DU3 PowerSpec Dimming 4-pin QT, 120-277V
S8 8 3/4" Steel Frame				
4X4		32 32W TTT	LP Low Profile	CU3 PowerSpec Dimming 4-Pin TTT, 120-277V
4X9		42 42W TTT		J Electronic Dimming 4-Pin QT/TTT (see below)
9X9		57 57W TTT		

Non-Dimming Ballasts: Lamp / Ballast Compatibility

Ballast Type	Description	Wattage	General Electric**	Sylvania	Philips
M120 M277	Magnetic, 120 & 277V Quad Tube 2-Pin	13 18, 26 13	F13 DBX23T4 / * F__ DBXT4 / * F 13 BX / *	CF 13 DD / * CF__ DD / * CF 13 DS / *	PL-C 13 W / * / USA PL-C __ W / * PL-S 13 W / *
U	Electronic, 120-277V Quad Tube 4-Pin Triple Tube 4-Pin	13, 18, 26 18, 26, 32, 42 57	F __ DBX / * / 4P F __ TBX / * / A / 4P F 57 QBX / * / A / 4P	CF __ DD / E / * CF __ DT / E / IN / * CF 57 DT / E / IN / *	PL-C __ W / * / 4P PL-T __ W / * / 4P

*Specify lamp color as desired. **General Electric 57W (QBX) is a Quadral Tube lamp. __ Specify lamp wattage.

Dimming Ballasts: Lamp / Ballast / Dimmer Compatibility

Ballast Type	Description	Wattage	Lamp	Compatible Dimmers
DU3	PowerSpec®, 120-277V Quad Tube 4-Pin 100 -3% Dimming	13, 18, 26 QT	SYL, GE, & Philips	MSP600HDF120 OH1500HDF120 LM22400HDF32 MSP600HDF120 ZP600HDF120 LM24000HDF MHP1500HDF120 MP1500HDF120 LM2020HDF120
CU3	PowerSpec®, 120-277V Triple Tube 4-Pin 100 -3% Dimming	26, 32, 42 TTT	SYL, GE, & Philips	OS600HDF120 V2000HDFU LM2020HDF277 OH600HDF120 LM22400HDF All VA Models** **All VA models: Use interfaces DA10HDFI, DA20HDF120I, DA20HDF277I
JUM7	Advance Mark VII®, 120-277V Quad / Triple Tube 4-Pin 100 -5% Dimming, 0-10V	26 QT 26, 32, 42, TTT	SYL, GE, & Philips	ZP600FAM120 LM2-2400FAM V2000FAMU MP1500FAM120 LM2-2400FAM-32 LM2-4000FAM
J1MX*	Advance Mark X®, 120-277V Quad / Triple Tube 4-Pin 100 -10% Dimming	26 QT 32, 42 TTT	SYL, GE, & Philips	ZP600EB 05600EB MP1500EB V1500EBU
J1HL3*	Lutron Hi-lume®, 120V Quad / Triple Tube 4-Pin 100 -5% Dimming	26 QT 32, 42 TTT	For lamp and dimmer compatibility, consult Lutron.	
BJULECD	Lutron ECO System® 120V-277V Quad / Triple Tube 4-Pin 100 -5% Dimming	18, 26 QT 32, 42 TTT	For lamp and dimmer compatibility, consult Lutron.	

*For 277V, Change "1" to "2"

Important: Season new lamps at full light output for 100 hours before dimming.

†For other ballast not shown consult Lightolier sales representative for availability.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

Calculite® Compact Fluorescent Downlighting **Ballast**

Electrical Data

Non-Dimming Ballasts

"M" Magnetic Ballasts for 2-Pin Lamps, 120V or 277V, 60 Hz.

Lamp	One Lamp - Quad Tube		Two Lamp - Twin or Quad Tube								Note: 24/27W is a 4-pin lamp.
	1 x 26W	1 x 26W	2 x 13W	2 x 13W	2 x 18W	2 x 18W	2 x 26W	2 x 26W	2 x 24/27W	2 x 24/27W	
Voltage	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	
Input Wattage	30	32	30	32	40	45	51	55	-	-	
Starting Current (amps.)	0.40	0.20	0.35	0.35	0.45	0.25	0.55	0.30	63	62	
Operating Current (amps.)	0.25	0.10	0.28	0.13	0.36	0.18	0.48	0.25	0.55	0.22	
Ballast Factor	0.90	0.95	0.90	0.90	0.95	1.00	0.90	0.90	0.93	0.93	
Power Factor	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	
T.H.D.	< 30%	< 30%	< 30%	< 30%	< 30%	< 30%	< 30%	< 30%	< 20%	< 20%	
Min. Starting Temp.	-4°C (25°F)	-4°C (25°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	-4°C (25°F)	0°C (32°F)	-4°C (25°F)	10°C (50°F)	10°C (50°F)	

"U" Universal Voltage Electronic Ballasts for 4-Pin Lamps, 120-277V 50/60Hz

Lamp	One Lamp - Triple Tube					Two - Lamp Quad Tube			Two Lamp - Triple Tube			Twin Tube
	1 x 18W	1 x 26W	1 x 32W	1 X 42W	1 X 57W	2 X 13W	2 x 18W	2 x 26W	2 x 26W	2 x 32W	2 x 42W	2 x 24/27W
Voltage	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V	120 / 277V
Input Wattage	22	28	36	48	59	33	40	56	56	70	93	50
Line Current (amps.)	0.18 / 0.08	0.25 / 0.11	0.32 / 0.14	0.42 / 0.18	0.50 / 0.21	0.28 / 0.12	0.33 / 0.15	0.49 / 0.21	0.49 / 0.21	0.59 / 0.25	0.78 / 0.33	0.41 / 0.18
Ballast Factor	1.00	1.00	1.00	0.98	0.94	0.98	0.98	0.98	0.98	0.96	0.95	1.00
Power Factor	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%	> 90%
T.H.D.	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%
Min. Starting Temp.	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)	0°C(32°F)	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)	-18°C(0°F)

Dimming Ballasts

"D" PowerSpec® HDF Universal Voltage Electronic Dimming Ballasts for 4-Pin Quad Tube Lamps, 120-277V 50/60 HZ.

Lamp	One Lamp - Quad Tube		Two Lamp - Quad Tube						Note: All data for dimming ballasts are measured at full output unless otherwise noted. PowerSpec® is a Registered Trademark of Lightolier.
	1 x 26W	1 x 26W	2 x 13W	2 x 13W	2 x 18W	2 x 18W	2 x 26W	2 x 26W	
Voltage	120V	277V	120V	277V	120V	277V	120V	277V	
Dimming Range	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	
Input Wattage (Full)	29	29	33	33	41	41	53	52	
Line Current (amps.)	0.26	0.12	0.27	0.12	0.35	0.15	0.41	0.18	
Ballast Factor (Full)	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	
Power Factor (Full & Low)	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	
T.H.D. (@ 100% full)	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	
T.H.D. (@ 10% Dim)	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	
Min. Starting Temp.	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	

"C" PowerSpec® HDF Universal Voltage Electronic Dimming Ballasts for 4-Pin Triple Tube Lamps, 120-277V 50/60 HZ.

Lamp	One Lamp - Triple Tube						Two Lamp - Triple Tube (Two ballasts)					
	1 x 26W	1 x 26W	1 x 32W	1 x 32W	1 x 42W	1 x 42W	2 x 26W	2 x 26W	2 x 32W	2 x 32W	2 x 42W	2 x 42W
Voltage	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Dimming Range	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%	100-10%
Input Wattage (Full)	29	29	35	35	45	45	58	58	70	70	90	90
Line Current (amps.)	0.26	0.12	0.32	0.14	0.41	0.18	0.52	0.24	0.64	0.28	0.82	0.36
Ballast Factor (Full)	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98	> 0.98
Power Factor (Full & Low)	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%	> 97%
T.H.D. (@ 100% full)	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%	< 10%
T.H.D. (@ 10% Dim)	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%
Min. Starting Temp.	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)	0°C (32°F)

"J" Other Electronic Dimming Ballasts (Advance, Lutron) for 4-Pin Quad Tube and Triple Tube Lamps

Note:

1. All electronic ballasts are equipped with end-of-lamp life circuit protection, short circuit protection and "Class P" thermal protection.
2. All ballasts comply with FCC Part 18, Class A for EMI.
3. All electrical data shown is typical but may vary depending on ballast used.
4. All electrical data is provided by ballast manufacturers.

Job Information

Type:

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