

Code•Master™ PLT Factory Sealed Luminaires

Explosionproof, Dust-Ignitionproof

Integrally Ballasted. 26 W, 32 W, 42 W, 52 W, 64 W, 84 W Compact Fluorescent. For use with Threaded Metal Conduit.

NEC:

Class I, Division 1 and 2, Groups B♦, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 4X
Suitable for use in wet locations

CEC:

Class I, Division 1 and 2, Groups B, C, D
Class I, Zone 1 and 2, Groups IIB + H₂ T6
Class II, Division 1 and 2, Groups E, F, G
Class III
CSA 4X

Exd IIB + H₂

Suitable for use in wet locations

Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured, and in other areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- For use in areas where an instant-on white light is desired.
- Suitable for use in wet locations.
- Standard fixtures designed for 26 W, 32 W, 42 W, 52 W (two 26 W), 64 W (two 32 W), and 84 W (two 42 W) PLT lamps.
- Cold weather starting to a minimum temperature of 0 °F/-18 °C for the Code•Master Jr. PLT and -22 °F/-30 °C for the Code•Master 2 PLT.

Features

- Fixtures operate safely in high ambient temperatures.
- Arrangement of heat-producing components results in efficient heat dissipation for cooler fixture operation.
- Patented "wireless" design. Threading of fixture unit onto mounting hood makes electrical connection. The only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws; (b) make wire connections; and (c) reposition connection block.
- Safe, easy servicing without disconnecting any wiring. "Wireless" fixture unit threads off mounting hood for convenient servicing or for immediate replacement with a "stand-by" unit.
- Acme double-lead threads speed installation and fixture removal from mounting hood – only half as many turns are required as for single-lead threads. The threads do not stick, or gall, eliminating problems often encountered with single-lead threads during fixture unit removal.
- All threaded joints are flame-tight.
- Factory sealed. External seals not required for Groups C and D.
- Fixtures for use in Group B locations are furnished complete with UL required sealing fitting for Code•Master Jr. PLT only.
- Heat- and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Fluorescent light source reduces energy cost.
- Strategic location of lamp socket, in combination with interior prism design of the glass globe, provides optimum light distribution and control.
- Choice of mountings – pendant, ceiling, bracket and stanchion.
- Optional guards protect globes from damage. Secured to fixture with three stainless steel screws.
- Fiberglass reinforced polyester reflectors, in standard dome or 30° angle styles, are ideal in installations where luminaire is subject to exceptionally severe corrosive atmospheres. The high bay aluminum reflector is intended for installations where mounting height work planes range from 20 to 30 feet/6 to 9 meters.
- Fluorescent lamp life of 10,000 hours reduces relamping cost compared to incandescent, and provides superior T numbers.

Standard Materials

- Ballast bodies and guards: copperfree (4/10 of 1% max.) aluminum
- Pendant mounting hoods: diecast copperfree (4/10 of 1% max.) aluminum
- Ceiling, bracket and stanchion mounting hoods: sand cast copperfree (4/10 of 1% max.) aluminum

♦ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

⚡ CSA Certification only.



26–42W Code•Master Jr. PLT



52–84W Code•Master 2 PLT

Illustrated Features



As Fixture unit is threaded into mounting hood an automatic electrical connection is made.

- Reflectors: fiberglass reinforced polyester (white) or aluminum

Standard Finishes

- Ballast bodies, guards and mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform corrosion protection

Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444

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Exd IIB + H₂

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Catalog Numbering Guide

CJ	F	P	26	75	G	BU	L
Series: CJ - Code•Master Jr. ♦ C - Code•Master 2	Lamp Type: F - Fluorescent	Mounting: P - Pendant C - Ceiling B - Bracket S - Stanchion PB - Group B Pendant ♦ SB - Group B Stanchion ♦	Wattage: 26 - 26 Watts 32 - 32 Watts 42 - 42 Watts 52 - 52 Watts † 64 - 64 Watts † 84 - 84 Watts †	Hub Size: 75 - 3/4" 10 - 1" 150 - 1-1/2" or 1-1/4"	Guard: G - Guard provided Blank - Guard not provided	Voltage: BU - 120-277 V 50/60 Hz A5 - 347 V 60 Hz ⚡	Options: L - Lamps Provided F - Fused Z - Zone 1 Exd IIB + H ₂ ⚡

Classified Area Suitability of Code•Master™ Series PLT Fixtures — Suitability includes use of reflector

Lamp Type	Lamp Watts	Supply Wire °F/°C	Ambient Temp °F/°C	Class I, Division 1 & 2 with Globe or with Globe & Reflector UL/NEC Temp. Ident. No.		Class II, Division 1 & 2 with Globe or with Globe & Reflector UL/NEC Temp. Ident. No.	
				Nameplate Marking	Groups	Nameplate Marking	Groups
PLT (4-pin)	26	167/75	104/40	T6	B♦,C,D	T4A	E, F, G
PLT (4-pin)	32	167/75	104/40	T6	B♦,C,D	T4A	E, F, G
PLT (4-pin)	42	167/75	104/40	T6	B♦,C,D	T4A	E, F, G
PLT (4-pin)	52 (2 x 26)	167/75	104/40	T6	C, D	T4	E, F, G
		167/75	131/55	T5	C, D	—	—
		167/75	149/65	T5	C, D	—	—
PLT (4-pin)	64 (2 x 32)	167/75	104/40	T6	C, D	T4	E, F, G
		167/75	131/55	T5	C, D	—	—
		167/75	149/65	T5	C, D	—	—
PLT (4-pin)	84 (2 x 42)	167/75	104/40	T6	C, D	T4	E, F, G
		167/75	131/55	T5	C, D	—	—
		167/75	149/65	T5	C, D	—	—

“T” Numbers Represent the Maximum Surface Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85

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† Available in Codemaster 2 Only

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Class III

NEMA 4X

Suitable for use in wet locations

LIGHTING: EXPLOSIONPROOF – AREA – FLUORESCENT

Lighting

	Lamp Watts	Hub Size (Inches)	Catalog Number with Globe ❶
Pendant — One Hub, Rigid or Flexible Mounting			
	26	3/4	CJFPB2675BU
	32	3/4	CJFPB3275BU
	42	3/4	CJFPB4275BU
25° Stanchion			
	26	1-1/2	CJFSB26150BU
	32	1-1/2	CJFSB32150BU
	42	1-1/2	CJFSB42150BU
Mounting Hoods			
		Hub Size Inches	Catalog Number
Pendant — One Hub			
		3/4	CAP-75B
25° Stanchion — One Hub ❷			
		1-1/2	CAS-150B

NOTE: Fixture units are the same as listed on following pages.

◆ Fixtures are for use with Group B atmospheres only when used with Group B mounting hoods. For 26 W, 32 W, and 42 W fixtures only.

❶ To order fixture with guard, add suffix -G before adding voltage suffix.

❷ To order fixture with lamp(s), add suffix -L after voltage suffix.

❸ Malleable iron sealing fittings are available in the Fittings Section.

Code•Master™ PLT Factory Sealed Luminaire Mounting Hoods and Fixture Units

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CSA 4X

Exd IIB + H₂

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Mounting Hoods

	Hub Size (Inches)	Catalog Number
Pendant		
	3/4	CAP-75
	1	CAP-100
Ceiling		
	3/4	CAC-75
	1	CAC-100
Bracket		
	3/4	CALB-75
	1	CALB-100
25° Stanchion		
	1-1/4 or 1-1/2 ①	CAS-150 ①
Mounting Adapter with Connection Block		
		CMAD-1

Fixture Units

	Line Voltage	Hz	Catalog Number
Ballast body with globe			
	120-277	50/60	CJB26FBU ②
	120-277	50/60	CJB32FBU ②
	120-277	50/60	CJB42FBU ②
	120-277	50/60	CMBF52BU
	120-277	50/60	CMBF64BU
	120-277	50/60	CMBF84BU

Electrical Specification

Lamp Wattage	Line Voltage	Frequency (Hz)	Line Amps	Input Watts	Min. Starting Temp
26 (1 x 26)	120-277	50/60	0.25-0.11	28	0 °F/-18 °C
32 (1 x 32)	120-277	50/60	0.27-0.12	36	0 °F/-18 °C
42 (1 x 42)	120-277	50/60	0.35-0.16	48	0 °F/-18 °C
52 (2 x 26)	120-277	50/60	0.49-0.20	55	-22 °F/-30 °C
64 (2 x 32)	120-277	50/60	0.57-0.24	67	-22 °F/-30 °C
84 (2 x 42)	120-277	50/60	0.73-0.31	87	-22 °F/-30 °C

① 1-1/2" tapped hub furnished with 1-1/2" to 1-1/4" reducer.

② Denotes items that are suitable for Class I, Group B in addition to Class I, Groups C and D; and Class II, Groups E, F and G.

⚡ CSA Certification only.

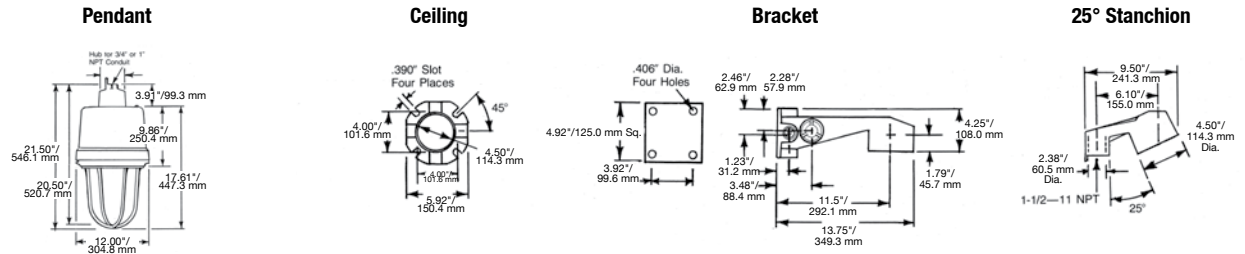
◆ Shaded items are suitable for Class I, Group C in addition to Class I, Group D; Class II, Groups E, F and G; and Class III.

Code•Master™ PLT Factory Sealed Luminaire Dimensions

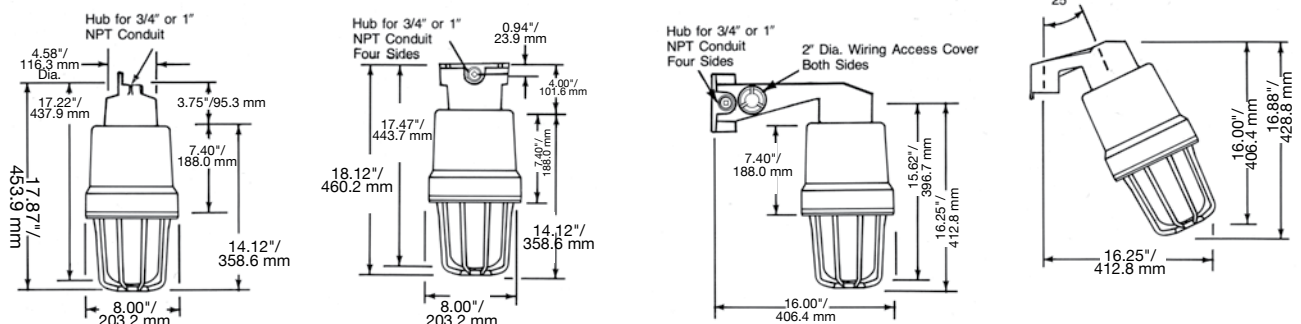
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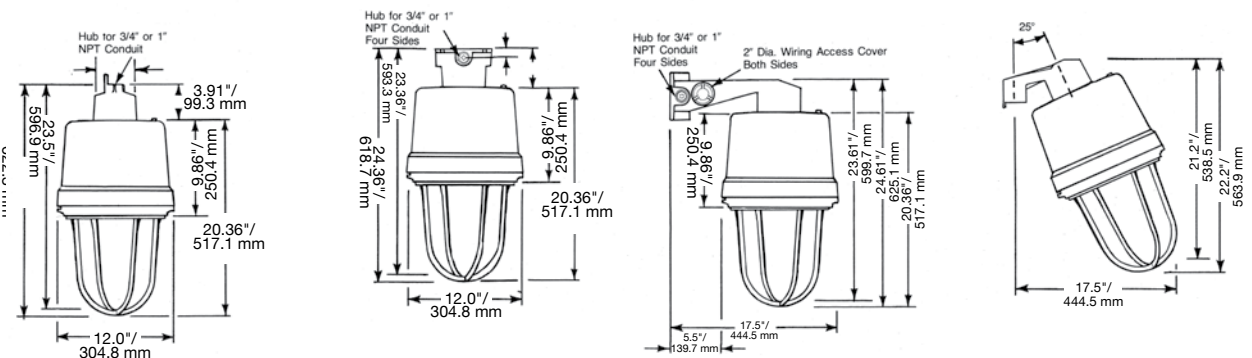
Mounting Hoods



26, 32, 42 W Fixture



52, 64, 84 W Fixture



Exit Signs



Code•Master™ PLT Factory Sealed Luminaire Photometric Data

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* Photometric data is based on a fixture with a 32 W compact fluorescent PL-T lamp (2,400 lumens). For candlepower values of fixtures with 26 W PL-T lamps (1,800 lumens), multiply by 0.75. For candlepower values of fixtures with a 42 W PL-T Lamp (3,200 lumens), multiply by 1.34.

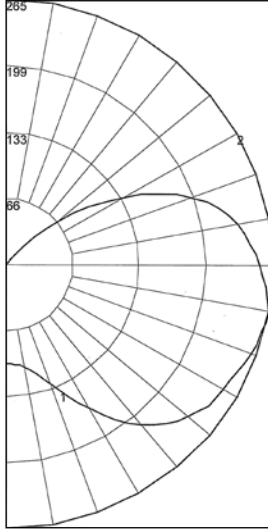
Total Luminaire Efficiency = 92.9%

CIE Type – Semi-Direct

Plane	Spacing Criteria
0-180	2.76
90-270	2.76
Diagonal	2.72

Zone	Lumens
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0-10	9.75
10-20	32.89
20-30	68.63
30-40	119.65
40-50	174.44
50-60	219.68
60-70	252.32
70-80	278.38
80-90	283.11
90-100	266.38
100-110	231.16
110-120	166.66
120-130	91.63
130-140	31.38
140-150	2.95
150-160	0.19
160-170	0.00
170-180	0.00



REPORT NUMBER: **CJBF32G**

32 W Fluorescent Lamp with Globe only *

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	103	103	103	103	97	97	97	97	85	85	85	74	74	74	65	65	65	60	60	60	60	60
1	88	81	75	70	82	76	70	65	65	61	57	56	53	50	48	45	42	38	38	38	38	38
2	78	67	59	52	72	63	55	49	54	48	43	46	41	37	38	35	31	27	27	27	27	27
3	69	57	48	41	64	53	45	38	46	39	33	39	33	29	32	28	24	20	20	20	20	20
4	63	50	40	33	58	46	37	31	39	32	27	33	28	23	28	23	19	16	16	16	16	16
5	57	43	34	27	52	40	32	25	35	27	22	29	23	19	24	19	16	13	13	13	13	13
6	52	38	29	23	48	36	27	21	31	24	18	26	20	16	21	17	13	10	10	10	10	10
7	48	34	25	19	44	32	24	18	27	21	16	23	18	13	19	15	11	9	9	9	9	9
8	44	31	22	17	41	29	21	16	25	18	14	21	16	11	18	13	9	7	7	7	7	7
9	41	28	20	14	38	26	19	14	23	16	12	19	14	10	16	12	8	6	6	6	6	6
10	38	25	18	13	35	24	17	12	21	15	10	18	12	9	15	10	7	5	5	5	5	5

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	111.27	4.6	5.0	90-120	664.20	27.7	29.8
0-40	230.92	9.6	10.4	90-130	755.83	31.5	33.9
0-60	625.05	26.0	28.0	90-150	790.17	32.9	33.9
0-90	1438.87	60.0	64.5	90-180	790.36	32.9	35.5
				0-180	2229.23	92.9	100.0

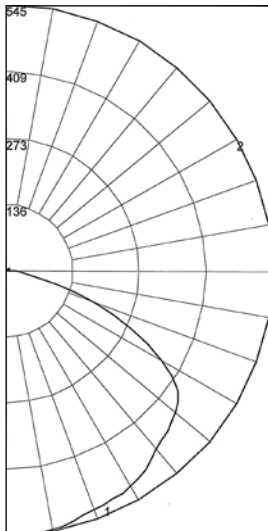
Total Luminaire Efficiency = 80.7%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.42
90-270	1.42
Diagonal	1.60

Zone	Lumens
------	--------

0-10	51.88
10-20	151.03
20-30	240.04
30-40	312.02
40-50	361.09
50-60	377.88
60-70	278.20
70-80	119.22
80-90	23.81
90-100	0.68
100-110	4.48
110-120	6.82
120-130	5.50
130-140	3.07
140-150	0.09
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: **CJBF32ST**

32 W Fluorescent Lamp with Globe and Standard Dome Reflector *

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling	Rcc	80				70				50				30				10				0
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	96	96	96	96	93	93	93	93	89	89	89	85	85	85	82	82	82	80	80	80	80	80
1	87	84	80	77	85	82	78	76	78	75	73	75	73	71	72	70	68	67	67	67	67	67
2	79	72	67	62	77	71	66	61	68	63	60	65	61	58	62	59	57	55	55	55	55	55
3	72	63	56	51	70	62	55	50	59	54	49	57	52	48	54	51	47	45	45	45	45	45
4	65	55	48	42	63	54	47	42	52	46	41	50	45	41	48	44	40	38	38	38	38	38
5	60	49	41	36	58	48	41	36	46	40	35	44	39	35	43	38	34	32	32	32	32	32
6	55	44	36	31	53	43	36	31	41	35	30	40	34	30	39	34	30	28	28	28	28	28
7	51	39	32	27	49	39	32	27	37	31	27	36	30	26	35	30	26	24	24	24	24	24
8	47	36	29	24	46	35	28	24	34	28	23	33	27	23	32	27	23	21	21	21	21	21
9	44	33	26	21	43	32	26	21	31	25	21	30	25	21	29	24	21	19	19	19	19	19
10	41	30	23	19	40	30	23	19	29	23	19	28	23	19	27	22	19	17	17	17	17	17

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	442.95	18.5	22.9	90-120	11.98	0.5	0.6
0-40	754.97	31.5	39.0	90-130	17.48	0.7	0.9
0-60	1493.95	62.2	77.2	90-150	20.63	0.9	0.9
0-90	1915.18	79.8	98.9	90-180	20.63	0.9	1.1
				0-180	1935.81	80.7	100.0