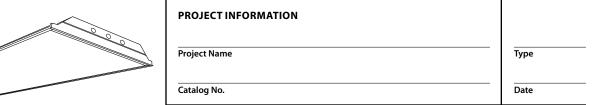
# JT824-2, JT824-3

2' × 4' Dedicated T8 Lensed Troffer / 2 or 3-Lamp T8



# **FEATURES**

- · T8 optimized fluorescent lensed troffer
- Shallow design frees up plenum space
- Hemmed fixture edges reduce risk of injury during fixture handling and installation
- Integral T-bar clips quickly secure fixture to the grid
- Corner hinging for easy insertion and removal of shielding frame
- Housing embossments provide extra strength and rigidity
- Housing ends secured by unique corner interlock and screws
- Snap-in ballast cover requires no tools for wireway access
- Flush steel shielding frame, screw assembled for easy diffuser replacement
- Rotary action cam latches. Smooth operating for secure shielding retention
- Metal to metal light leak protection on all four sides of shielding frame
- Rotary lock lampholders for positive lamp contact
- Heat sink embossments behind ballasts for cooler operation,
- Recessed, surface or cable mount
- UL listed 1598

### CONSTRUCTION

Housing is constructed of heavy gauge steel, die formed for extra rigidity. Four T-bar clips integral to housing. Housing features hemmed edges. Door frame hinges and latches from either side. Wireway accessible from below for upgrades or maintenance.

### **BALLASTS**

Energy efficient, thermally protected, automatic resetting, Class "P", high power factor, sound rated A, unless otherwise specified. For a specific vendor and/or ballast, specify as option. CEE NEMA Premium compliant.

### **ELECTRICAL**

Standard class "P," thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/ CECcompliant ballast disconnect is standard.

All metal parts processed with a phase phosphate bonding treatment. Grid units are pre-painted with high gloss baked white enamel, 86% reflective. Polyester powder coat paint after fabrication (PAF) option available, reflectance 90%.

### **SHIELDING**

100% virgin acrylic prismatic 12, extruded and roll-embossed, diagonally oriented female prisms standard. Other shielding may be specified. If desired shielding media is not shown in ordering guide, contact your local Hubbell Lighting representative.

# **CEILING COMPATIBILITY**

Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), Surface mount at ceiling plane (SM) or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative.

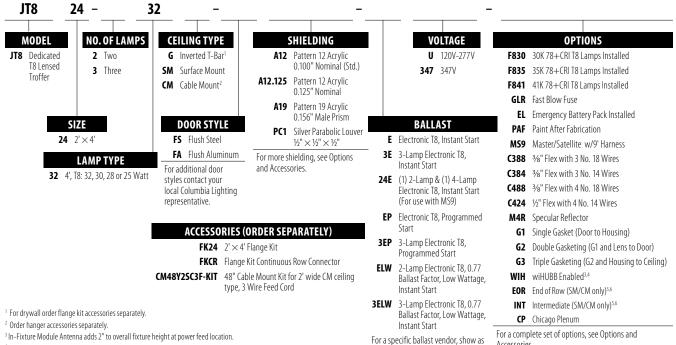
### CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924. UL Sanitation Approved.

# **ORDERING INFORMATION**

EXAMPLE JT824-232G-FSA12-EU-F0735- C388-GLR

Accessories.



<sup>&</sup>lt;sup>3</sup> In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

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LENSED TROFFERS / JT824-2, JT824-3



<sup>&</sup>lt;sup>4</sup> Not available with Surface Mount ceiling types.

<sup>5</sup> Provides ends with wiring access for continuous row mounting

<sup>&</sup>lt;sup>6</sup> Contact Hubbell representative for continuous row, 3-lamp fixtures.



# PHOTOMETRIC DATA

### **LUMINAIRE DATA**

						_ ,		•
Luminaire	JT824-332G-FSA12			0.0	22.5	45.0	67.5	ĺ
	J Lensed Troffer		0	4289	4289	4289	4289	ſ
	2' x 4' 3-Lamp with	<u>=</u>	30	4196	4277	4409	4495	
	A-12 Pattern Acrylic Prismatic Lens	Angle	40	3635	4032	4230	4421	
	riisiliatic Lelis		45	3655	3764	3994	4218	
Ballast	B332I120RH-A	Luminance	50	3299	3469	3761	3940	
Ballast Factor	0.88	. <u>°</u>	55	2993	3133	3443	3569	
Lamp	F32T8	٠Ę	60	2706	2694	2903	3078	
			65	2420	2238	2231	2547	ı
Lumens per Lamp	2900	Average	70	2178	1908	1643	2223	
Watts	84	. je	75	2101	1792	1501	2130	
Shielding	N/A	₹	80	2255	1822	1831	2229	ı
Angle	IN/A		85	2344	2009	2079	2555	
Spacing Criterion	0° = 1.23 90° = 1.36							
		ZO	NAI	LUN	1EN S	UMN	//ARY	

# AVG.LUMINANCE (Candela/Sq.M.) COEFFICIENTS OF UTILIZATION (%)

		0.0	22.5	45.0	67.5	90.0
	0	4289	4289	4289	4289	4289
<u>=</u>	30	4196	4277	4409	4495	4518
ű	40	3635	4032	4230	4421	4515
e/	45	3655	3764	3994	4218	4355
Average Luminance Angle	50	3299	3469	3761	3940	4047
ű.	55	2993	3133	3443	3569	3647
重	60	2706	2694	2903	3078	3161
ĭ	65	2420	2238	2231	2547	2631
ğ	70	2178	1908	1643	2223	2326
ē	75	2101	1792	1501	2130	2368
₹	80	2255	1822	1831	2229	2583
	85	2344	2009	2079	2555	2696

Lamp

423

71.4

846

84.6

499

84.4

100.0

100.0

Zone

0-40

0-60

0-90

0-180

Lumens

2232

3678

6216

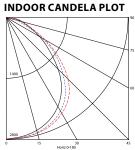
7364

7364

	RC	80			70			50			0		
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	93	89	85	82	90	87	84	81	83	81	79	72
	2	85	78	73	68	83	77	72	67	74	70	66	61
	3	78	69	63	58	76	68	62	57	65	60	56	52
	4	71	62	55	49	70	61	54	49	59	53	48	45
RCR	5	66	55	48	43	64	54	48	42	53	47	42	39
~	6	61	50	43	38	59	49	42	37	48	42	37	35
	7	57	45	38	33	55	45	38	33	44	37	33	31
	8	53	42	35	30	51	41	34	30	40	34	29	28
	9	49	38	31	27	48	38	31	27	37	31	27	25
	10	46	35	29	24	45	35	29	24	34	28	24	23
RCR	RCR — Room Cavity Ratio												

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance



Test 13120 Test Date 11/07/2003

# **ENERGY DATA**

Total Luminaire Efficiency	84.6%
Luminaire Efficacy Rating (LER)	77
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.12 based on 3000 hrs. and \$0.08 per KWH

Test 13121 Test Date 1/8/03

### **LUMINAIRE DATA**

Luminaire	JT824-232G-FSA12 J Lensed Troffer 2' x 4' 2-Lamp with A-12 Pattern Acrylic Prismatic Lens
Ballast	B232I120RH-A
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	60
Shielding Angle	N/A
Spacing Criterion	0° = 1.23 90° = 1.36

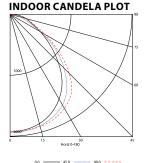
# AVG.LUMINANCE (Candela/Sq.M.) COEFFICIENTS OF UTILIZATION (%)

		0.0	22.5	45.0	67.5	90.0		RC		
	0	2967	2967	2967	2967	2967		RW	70	!
<u>e</u>	30	2850	2921	3045	3133	3155		1	94	9
ũ	40	2638	2733	2893	3073	3160		2	87	8
e A	45	2430	2537	2719	2912	2986		3	79	
ĕ	50	2198	2308	2513	2669	2714		4	73	(
i.	55	1973	2046	2220	2327	2394	RCR	5	67	1
Average Luminance Angle	60	1757	1754	1806	1923	2036	×	6	62	
ī	65	1577	1461	1377	1563	1752		7	58	4
ge	70	1509	1302	1100	1361	1603		8	54	4
ē	75	1596	1329	1169	1377	1650		9	50	
¥	80	1716	1450	1389	1512	1778		10	47	
	85	1780	1656	1568	1709	1850	RCR	R = Roo	om Ca	١V

	RC		80			70					0		
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	94	91	87	84	92	89	85	83	85	82	80	74
	2	87	80	74	70	84	78	73	69	75	71	67	62
	3	79	71	64	59	77	69	63	58	67	62	57	54
	4	73	63	56	50	71	62	55	50	60	54	49	46
RCR	5	67	57	49	44	66	56	49	44	54	48	43	40
ž	6	62	51	44	39	61	50	43	38	49	43	38	36
	7	58	47	39	34	56	46	39	34	45	38	34	32
	8	54	43	36	31	53	42	35	31	41	35	30	28
	9	50	39	32	28	49	39	32	28	38	32	27	26
	10	47	36	30	25	46	36	29	25	35	29	25	23

vity Ratio

 $\mathbf{RC} = \text{Effective Ceiling Cavity Reflectance } \mathbf{RW} = \text{Wall Reflectance}$ 



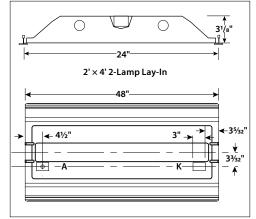
# **ZONAL LUMEN SUMMARY**

Zone	Lumens	Lamp	Fixt.
0-30	1542	26.6	30.8
0-40	2538	43.8	50.7
0-60	4234	73.0	84.6
0-90	5004	86.3	100.0
0-180	5004	86.3	100.0

# **ENERGY DATA**

Total Luminaire Efficiency	86.3%
uminaire Efficacy Rating (LER)	73
ESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting	\$3.29 based on 3000 hrs.

# **DIMENSIONAL DATA**

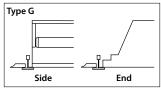


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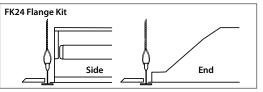
A: %" Diameter knockout K: 2" × 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification. Width 24%", Length [48" × (# in row)] + %". Example: (48" × 2) + %"= Flange kit rough in dimensions for single unit only: 24%" × 48%"

# **CEILING COMPATIBILITY**



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.



For hard ceiling applications order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

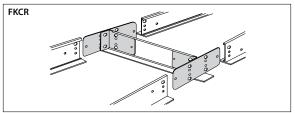
For flanged fixtures in row

in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2)

LENSED TROFFERS / JT824-2, JT824-3

FK24 & (1) FKCR)

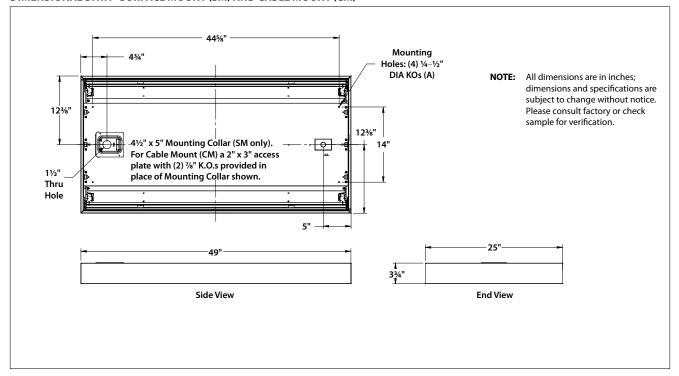
configurations, the FKCR adapter bracket kit is required



Row cut out dimensions using FK24 & FKCR adapters: Width 24%", Length [48" × (# in row)] + \%". Example:  $(48" \times 2) + \%" = 96\%$ "



# **DIMENSIONAL DATA - SURFACE MOUNT (SM) AND CABLE MOUNT (CM)**



# **SURFACE MOUNT**

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, 1/4" to 1/2" provided as shown, marked "A".

# **CABLE MOUNT**

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2SC3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell Lighting representative. Mounting knock-outs, 1/4" to 1/2", provided as shown, marked "A".

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