

create**change**

FEATURES

- Full distribution provides controlled high angle light for visual comfort
- Long-life, 50,000 hour LEDs at L80 reduce life cycle maintenance costs Lens design and materials provide uniform appearance without pixilation
- Three lens choices
- Three door frame choices • Excellent color consistency and 82 CRI
- Fixed output or 0-10V dimming drivers available
- Hinged optical system allows easy access to LED boards and drivers from below the ceiling; modular replaceability of components
- Low W/ft2 ratio typically meets the most restrictive lighting power density codes
- Recessed, surface or cable mount
- All models standard with IC rating

LLT22 2' × 2', LED Lensed Troffer with Advanced Solid State Technology

PROJECT INFORMATION

P

oject	Name	

Туре

Date

Catalog No. CONSTRUCTION

Luminaire housing, end caps, and reflectors are dieformed code-gauge cold-rolled steel. Optical system hinges from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks. Spring loaded latches optional on steel door, standard on aluminum doors.

FINISH

Door frame is powder coat paint after fabrication. All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel. For a post painted housing finish suffix catalog number with PAF.

SHIELDING

Lenses are high transmission extruded acrylic. Lens selections are Pattern 12 frosted acrylic (A12F), Pattern 19 frosted acrylic .156" (A19F), or Smooth Frosted Acrylic (SFA).

INSTALLATION

An access plate or mounting collar is furnished with each fixture for fast wiring connections without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY

Luminaire fits recessed exposed grid ceilings (G); for (4) field installable T- Bar clips, order option 4TB. A flange kit (FK) option is available for recessed hard ceiling applications. Surface Mount (SM) option allows placement on ceiling plane. Cable Mount option (CM) allows suspension below ceiling plane. For information on compatibility with specific ceilings, or where plenum depth is a problem, contact your Hubbell Lighting representative.

CERTIFICATION

All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM79, LM80 and TM21 industry standards. IC rating is standard on all models. UL Sanitation Approved.

WARRANTY

Five year warranty. (Terms and Conditions Apply)

EXAMPLE LLT22-35HLG-FSA12F-EU

ORDERING INFORMATION

LLT	22 -	-		-				-	
MODEL	COLOR TEMP	CEILING TYPE	SH	ELDING		DRIVER	VOLTAGE		OPTIONS
LLT LED Lensed	30 3000K	G Grid ¹	A12	Pattern 12 Acryli	c E	Fixed Output	U 120V-277V	C388	3-Wire Flex
Troffer	35 3500K	SM Surface Mount		Lens	ED	0-10V Dimming	347 347V	C488	4-Wire Flex
	40 4000K	CM Cable Mount ²	A12F	Pattern 12	ED1	0-10V 1%		C588	5-Wire Flex
	50 5000K			Frosted Acrylic Lens	LUTH	Dimming Hi-lume 1%		ELL14	Emergency Battery Pack Installed, 1400 Lumens ⁴
SIZE	LUMEN OUT		A12125	Pattern 12 Acryli Lens 125"	C	EcoSystem LED		PAF	Paint After Fabrication
22 2'×2		FS White Flush Steel	A12125F			driver with Soft-on, Fade-to-		SLL	Spring Loaded Latches
	ML Medium Lumer	FA White Flush		Frosted Acrylic		Black dimming		4TB	Four T-Bar Clips
	HL High Lumen	Aluminum ³		Lens .125"		technology		GTD	Generator Transfer Device
	VL Very High Lume	en RA White Regressed		Pattern 19 Acryli Lens .156"	c LUTS	5-Series EcoSystem LED driver		G1	Single Gasket (door to housing)
(ORD	ACCESSORIES DER SEPARATELY)	Aluminum ³ For more door	A19F	Pattern 19 Frosted Acrylic Lens 156"		unver		G2	Double Gasketing (G1 and lens to door)
	2 2' x 2' Flange Kit, Single Mounting (for rows add Fl	KCR) options contact factory.	SFA	Smooth Frosted Acrylic				G3	Triple Gasketing (G2 and housing to ceiling)
	R Flange Kit Row Adaptor			Actylic				GLR	Fast Blow Fuse
CM 48Y2SC3F-KI	T 48" Cable Mount Kit for 2' Cable Mount fixtures, 3- Wire Feed Cord	wide		PRODUCT AVAILABILITY					End of Row (SM/CM only) ^s
	5- Which cold							INT	Intermediate (SM/CM
			SIZ	E OUTPUT	NOMINA LUMENS (3500K)		LUMENS PER WATT		only) ⁵
, ,	Kit accessories separately.		2' x	2' LW	2100	22	95		
² Order hanger accessorie ³ Spring Loaded Latches (' '			ML	2500	27	93		
⁴ For compatibility with D	ual-Lite LiteGear® inverters in lieu o	of installed battery pack,		HL	3300	36	92		
contact Hubbell Lightin		in a		VL	4000	45	89		
Damp Label – standard.	ng access for continuous row mount C Rating – standard.	ing.		ens vary accordin specific photome		mperature and oth	er factors.		
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_ED / LLT22



LLT22 $2' \times 2'$, LED Lensed Troffer with Advanced Solid State Technology

PHOTOMETRIC DATA

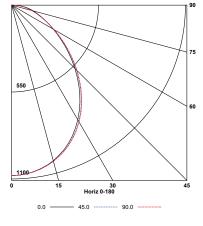
LUMINAIRE DATA

Luminaire	LLT22-35MLG-A12F-ESD
	LLT LED, Lensed Troffer
	2 x 2 LED with frosted A12 lens
Ballast	D185CQ30UNVA-A
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	2520
Watts	26.70
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.16 90° = 1.18
Luminous Opening	Length: 1.83
in Feet	Width: 1.83
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	812	32.2	32.2
0-40	1289	51.2	51.2
0-60	2084	82.7	82.7
0-90	2520	100.0	100.0
0-180	2520	100.0	100.0

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY Zone Lumens % Lamp % Fixt.

32.3

51.2

82.8

100.0

100.0

32.3

51.2

82.8

100.0

75

60

45

100.0

1049

1665

2690

3251

INDOOR CANDELA PLOT

0-180 3251

0-30

0-40

0-60

0-90

700

1400

15

0.0 —

30 Horiz 0-180

---- 90.0 -----

- 45.0 -----

Test 5366 Test Date 7/9/12

ENERGY DATA

Total Luminaire Efficiency	100%
Total Lumens Per Watt	94
ANSI/IESNA RP-1-2004 Compliance	Yes - VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.58 based on 3000 hrs. and \$0.08 per KWH

AVG. LUMINANCE (Candela/Sq. M.)

		0.0	22.5	45.0	67.5	90.0
	0	3465	3465	3465	3465	3465
	30	3106	3121	3151	3162	3170
gle	40	2773	2794	2832	2853	2862
Angle	45	2573	2591	2632	2650	2664
JCe	50	2355	2370	2410	2430	2445
inal	55	2146	2157	2185	2208	2225
Average Luminance	60	1961	1961	1974	1993	2012
Je L	65	1825	1810	1795	1810	1833
raç	70	1757	1729	1663	1682	1710
Ave	75	1763	1714	1627	1614	1639
	80	1888	1795	1684	1629	1666
	85	2102	2065	1881	1733	1807

COEFFICIENTS OF UTILIZATION (%)

	RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	109	105	101	97	107	102	99	95	98	95	92	85
	2	100	92	86	80	97	90	84	79	87	82	77	72
	3	92	82	74	68	89	80	73	67	77	71	66	62
	4	84	73	65	58	82	72	64	58	69	62	57	53
RCR	5	78	66	57	51	76	65	57	50	63	55	50	47
Ä	6	72	60	51	45	70	59	50	45	57	50	44	41
	7	67	54	46	40	66	53	45	40	52	45	39	37
	8	63	50	41	36	61	49	41	36	48	41	36	33
	9	59	46	38	32	57	45	38	32	44	37	32	30
	10	55	42	35	30	54	42	35	30	41	34	29	27

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance **RW** = Wall Reflectance

LUMINAIRE DATA

Luminaire	LLT22-35HLG-A12F-ESD
	LLT LED, Lensed Troffer
	2 x 2 LED with frosted A12 lens
Ballast	D255CQ42UNVA-A
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3251
Watts	35.50
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.16 90° = 1.18
Luminous Opening	Length: 1.83
in Feet	Width: 1.83
	Height: 0.00

COEFFICIENTS OF UTILIZATION (%)

	RC	80			70				50			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	109	105	101	97	107	102	99	95	98	95	92	85
	2	100	92	86	80	97	90	84	79	87	82	78	72
	3	92	82	74	68	89	80	73	67	77	71	66	62
	4	84	73	65	58	82	72	64	58	69	62	57	53
RCR	5	78	66	57	51	76	65	57	51	63	55	50	47
ž	6	72	60	51	45	70	59	50	45	57	50	44	41
	7	67	54	46	40	66	53	45	40	52	45	39	37
	8	63	50	42	36	61	49	41	36	48	41	36	33
	9	59	46	38	32	57	45	38	32	44	37	32	30
	10	55	42	35	30	54	42	35	30	41	34	29	27

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

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Test 5352 Test Date 7/6/12

ENERGY DATA

Total Luminaire Efficiency	100%
Total Lumens Per Watt	92
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.67 based on 3000 hrs. and \$0.08 per KWH

AVG. LUMINANCE (Candela/Sq. M.)

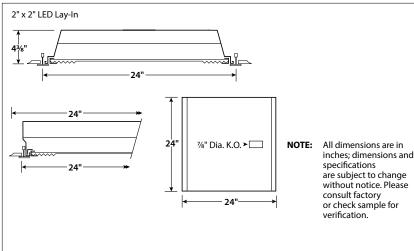
		0.0	22.5	45.0	67.5	90.0					
	0	4477	4477	4477	4477	4477					
	30	4008	4027	4068	4083	4090					
Angle	40	3575	3600	3650	3680	3692					
An	45	3318	3336	3391	3423	3436					
Average Luminance	50	3040	3060	3105	3140	3150					
ina	55	2768	2779	2819	2852	2869					
Ē	60	2520	2526	2539	2571	2597					
JeL	65	2350	2327	2312	2335	2365					
eraç	70	2255	2218	2143	2161	2199					
Ave	75	2285	2211	2086	2086	2111					
	80	2425	2314	2166	2110	2147					
	85	2729	2692	2434	2287	2360					



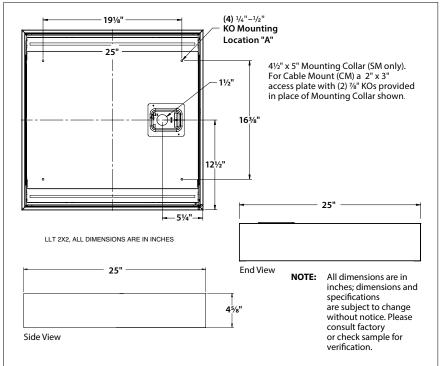


LLT22 2' × 2', LED Lensed Troffer with Advanced Solid State Technology

DIMENSIONAL DATA



DIMENSIONAL DATA - SURFACE OR CABLE MOUNT



Surface Mount

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

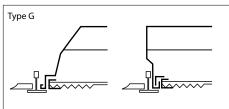
Cable Mount

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" Cable Mount Kit. Includes 3-wire feed cord. For other wiring needs, contact Hubbell representative. Mounting KOs, ¼" to ½", provided as shown at left marked "A"

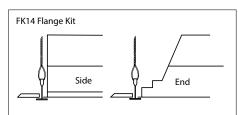
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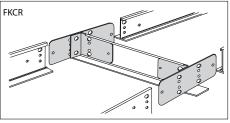
CEILING COMPATIBILITY



For lay-in insallation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed. Shown with flush lens.



For hard ceiling applications, order FK14 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance. Shown with flush lens.



For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK14 & (1) FKCR)

Row cut out dimensions using FK14 & FKCR adapters: Width 123/s", Length [48" × (# in row)] + 3/s" = 963/s"]

Flange kit rough in dimensions for single unit only: 123/8" x 483/8"



