Date



1' × 4', LED Lensed Troffer with Advanced Solid State Technology



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

Project Name Type

CONSTRUCTION

Catalog No.

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.

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). Four integral T-bar clips standard. 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

VOLTAGE U 120V-277V

Five year warranty. (Terms and Conditions Apply)

ORDERING INFORMATION

EXAMPLE LLT14-35MLG-FSA12F-EU

C388 3-Wire Flex

OPTIONS

LLT 14	l –	-
MODEL	COLOR TEMP	CEILING TYPE
LLT LED Lensed	30 3000K	G Grid ¹
Troffer	35 3500K	SM Surface Mount
	40 4000K	CM Cable Mount ²
	50 5000K	
SIZE	LUMEN OUT	PUT DOOR
14 1'×4'	LW Low Watt	FS White Flush
	ML Medium Lume	n Steel
	HL High Lumen	FA White Flush
	VL Very High Lum	Aluminum en DA White

ACCESSORIES (ORDER SEPARATELY)

FK14 1' x 4' Flange Kit, Single Mounting (for rows add FKCR)

FKCR Flange Kit Row Adaptor **CM 48Y1SC3F-KIT** 48" Cable Mount Kit for 1' wide

Cable Mount fixtures, 3- Wire Feed Cord

¹ For drywall order Flange Kit accessories separately. ² Order hanger accessories separately.

³For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact Hubbell Lighting representative.

⁴ Provides ends with wiring access for continuous row mounting. Damp Label – standard. IC Rating – standard.

SH	IELDING		DRIVER
A12F	Pattern 12 Frosted Acrylic Lens	ED	Fixed Output 0-10V Dimming
A19F	Pattern 19 Frosted Acrylic Lens .156"	LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to- Black dimming
SFA	Smooth Frosted Acrylic	LUT5	technology 5-Series EcoSystem LED driver

347 347V C	488 4-Wire Flex
C	588 5-Wire Flex
EI	L14 Emergency Battery Pack Installed, 1400 Lumens ³
	PAF Paint After Fabrication
	G1 Single Gasket (door to housing)
	G2 Double Gasketing (G1 and lens to door)
	G3 Triple Gasketing (G2 and housing to ceiling)
	GLR Fast Blow Fuse
	EOR End of Row (SM/CM only) ⁴
	INT Intermediate (SM/CM only) ⁴

PRODUCT AVAILABILITY								
SIZE	OUTPUT	NOMINAL LUMENS (3500K)	NOMINAL WATTS	LUMENS PER WATT				
1' x 4'	LW	1900	22	86				
	ML	2400	27	88				
	HL	3100	36	86				
	VL	3800	45	84				
Luman	c vary accordi	ing to color tom	norature and eth	or factors				

Lumens vary according to color temperature and other factors. See specific photometric test(s).

Page 1/3 Rev. 10/19/17 LED / LLT14

RA White Regressed

For more door

options contact

Aluminum



1 x 4, LED Ecised Holler With Advanced Solid State Technolog

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LLT14-35MLG-A12F-ESD			
	LLT LED, Lensed Troffer 1 x 4 LED with frosted A12 lens			
Ballast	D185CQ30UNVA-A			
Ballast Factor	1.00			
Lamp	LED			
Fixture Lumens	2397			
Watts	26.40			
Mounting	Recessed			
Shielding Angle	0° = 90 90° = 90			
Spacing Criterion	0° = 1.19 90° = 1.13			
Luminous Opening	Length: 3.81			
in Feet	Width: 0.81			
	Height: 0.00			

COEFFICIENTS OF UTILIZATION (%)

	RC		8	0			70)			50		0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	109	105	101	97	107	103	99	95	98	95	92	85
	2	100	92	86	81	98	90	85	80	87	82	78	72
	3	92	82	74	68	89	80	73	67	77	71	66	62
	4	85	73	65	59	82	72	64	58	69	63	57	54
Z Z	5	78	66	57	51	76	65	57	51	63	56	50	47
~	6	73	60	51	45	71	59	51	45	57	50	45	42
	7	68	55	46	40	66	54	46	40	52	45	40	37
	8	63	50	42	36	62	49	42	36	48	41	36	34
	9	59	46	38	33	58	46	38	33	44	37	33	30
	10	55	43	35	30	54	42	35	30	41	34	30	28

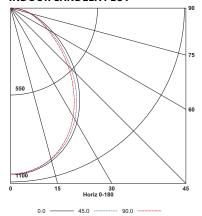
RCR = Room Cavity Ratio

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

ZONAL LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fixt.
ĺ	0-30	786	32.8	32.8
	0-40	1241	51.8	51.8
	0-60	1989	83.0	83.0
	0-90	2397	100.0	100.0
	0-180	2397	100.0	100.0

INDOOR CANDELA PLOT



Test 6007 Test Date 10/24/12

ENERGY DATA

Total Luminaire Efficiency	100%
Total Lumens Per Watt	91
ANSI/IESNA RP-1-2004 Compliance	Yes - VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.61 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	3662	3662	3662	3662	3662
	30	3375	3335	3274	3206	3186
gle	40	3069	3010	2900	2800	2764
Ā	45	2871	2802	2673	2565	2525
Average Luminance Angle	50	2648	2572	2431	2322	2284
ina	55	2420	2335	2195	2092	2055
Ē	60	2197	2114	1974	1897	1870
Je L	65	1989	1915	1799	1758	1750
iraç	70	1846	1774	1683	1683	1693
Ř	75	1765	1711	1644	1698	1725
	80	1768	1727	1707	1788	1868
	85	1921	1841	1881	2121	2081

LUMINAIRE DATA

Luminaire	LLT14-35HLG-A12F-ESD			
	LLT LED, Lensed Troffer 1 x 4 LED with frosted A12 lens			
Ballast	D255CQ42UNVA-A			
Ballast Factor	1.00			
Lamp	LED			
Fixture Lumens	3099			
Watts	34.70			
Mounting	Recessed			
Shielding Angle	0° = 90 90° = 90			
Spacing Criterion	0° = 1.19 90° = 1.13			
Luminous Opening	Length: 3.81			
in Feet	Width: 0.81			
	Height: 0.00			

COEFFICIENTS OF UTILIZATION (%)

	RC		8	0			70)			50		0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	109	105	101	97	107	103	99	96	98	95	92	85
	2	100	92	86	81	98	90	85	80	87	82	78	72
	3	92	82	74	68	90	80	73	67	77	71	66	62
	4	85	73	65	59	82	72	64	58	69	63	57	54
RCR R	5	78	66	57	51	76	65	57	51	63	56	50	47
ž	6	73	60	51	45	71	59	51	45	57	50	45	42
	7	68	55	46	40	66	54	46	40	52	45	40	37
	8	63	50	42	36	62	49	42	36	48	41	36	34
	9	59	46	38	33	58	46	38	33	44	37	33	30
	10	55	43	35	30	54	42	35	30	41	34	30	28

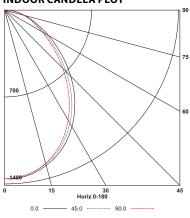
RCR = Room Cavity Ratio

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

ZONAL LUMEN SUMMARY

	Zone	Lumens	% Lamp	% Fixt.
	0-30	1016	32.8	32.8
	0-40	1606	51.8	51.8
	0-60	2572	83.0	83.0
	0-90	3099	100.0	100.0
	0-180	3099	100.0	100.0

INDOOR CANDELA PLOT



Test 6009 Test Date 10/24/2012

ENERGY DATA

Total Luminaire Efficiency	100%
Total Lumens Per Watt	89
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.70 based on 3000 hrs. and \$0.08 per KWH

AVG. LUMINANCE (Candela/Sq. M.)

		0.0	22.5	45.0	67.5	90.0
Angle	0	4733	4733	4733	4733	4733
	30	4366	4313	4233	4148	4120
	40	3970	3893	3752	3620	3574
	45	3714	3621	3453	3315	3265
Average Luminance	50	3429	3326	3147	3001	2952
ina	55	3126	3016	2834	2700	2663
ᆵ	60	2839	2728	2553	2448	2421
Je L	65	2583	2476	2327	2270	2261
raç	70	2386	2295	2172	2182	2193
Αĕ	75	2277	2197	2116	2183	2224
	80	2290	2230	2209	2310	2410
	85	2481	2361	2441	2721	2721

Page **2/3** Rev. **10/19/17** LED / LLT14



For flanged fixtures in

row configurations, the

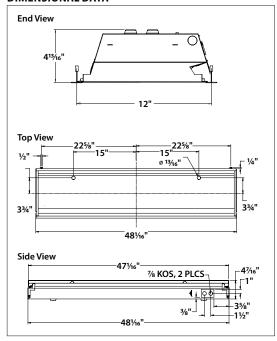
is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures

in row. (Example: Row of two, order (2) FK14 &

(1) FKCR)

FKCR adapter bracket kit

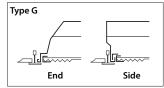
DIMENSIONAL DATA



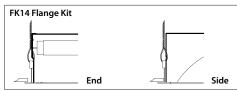
A: %" Diameter knockout K: 2" × 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

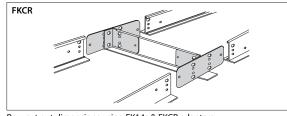
CEILING COMPATIBILITY



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



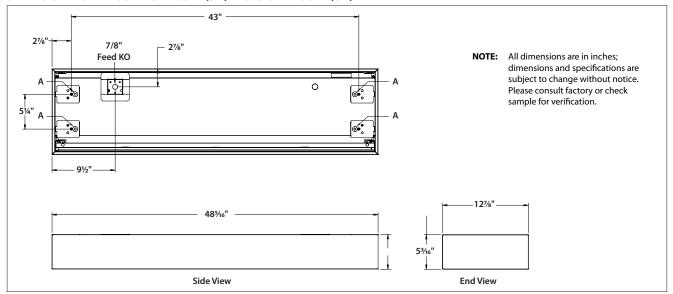
For hard ceiling applications, order FK14 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.



Row cut out dimensions using FK14s & FKCR adapters: Width 12%", Length [48" \times (# in row)] + 3%". Example: (48" \times 2) + 3%" = 963%"

Flange kit rough in dimensions for single unit only: 12%" × 48%"

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 CM48Y1 C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell Lighting representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

Page 3/3 Rev. 10/19/17 LED / LLT14

