

**LED**



create**change**



**FEATURES**

- Two attractive architectural center lens choices
- High efficiency acrylic center lens features linear prisms for high performance without pixelation
- Appropriate for offices, schools, medical, and public spaces
- High performance reflector with matte white paint standard
- 60,000 hour LEDs at L80 (up to 150,000 projected life) for reduced maintenance
- 83 CRI standard or optional 90 CRI for color sensitive applications
- Four LED color choices
- Eleven lumen packages
- HE lumen packages available
- Multiple driver options to satisfy different applications
- LED modules and electrical accessible from below
- Optional architecturally styled integration of daylight and occupancy sensor(s)
- Wireless ZigBee® radio enabled option
- QR code traceability
- Integral battery pack optional on most models
- Compatible with Dual-Lite inverters
- Recessed, surface or cable mount
- Air return option
- DesignLights Consortium® (DLC) qualified with many configurations qualifying for DLC Premium
- Five year warranty (Terms and Conditions apply)

**PROJECT INFORMATION**

Project Name \_\_\_\_\_

Type \_\_\_\_\_

Catalog No. \_\_\_\_\_

Date \_\_\_\_\_

**CONSTRUCTION**

Luminaire housing, reflectors and end caps are die formed code gauge cold rolled steel. High transmission extruded acrylic enclosed lens features linear prisms with custom frost for high efficacy without pixelation.

**SHIELDING**

Removable lens for easy access to LED module and electrical components.

**FINISH**

All reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination.

**INSTALLATION**

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

**CEILING COMPATIBILITY**

Luminaire fits recessed exposed Grid ceilings (G); four integral NEC compliant T-bar clips are standard. Can be placed in Slot Grid (SG) style ceiling with regress 3/8" above ceiling plane. A Flange Kit (FK) accessory is available for recessed hard ceiling applications. Surface Mount (SM) option allows placement below ceiling plane. Cable Mount (CM) option allows suspension below ceiling plane.

**CERTIFICATION**

All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Damp location is standard. Emergency-equipped fixtures labeled UL 924 and Dry Location unless specified. Adheres to LM79, LM80, and TM21 industry standards. DesignLights Consortium® (DLC) and DLC Premium qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

**IC RATING**

IC label is standard for recessed products. Note that IC label is void if product is installed on site with a combination of both battery pack plus through wiring or for air return fixtures.

**WARRANTY**

Five year warranty (Terms and Conditions apply).

**ORDERING INFORMATION**

**EXAMPLE LCAT24-35MLG-ESDU**

LCAT 24 -		-		-		-		-		
MODEL	CRI	COLOR TEMPERATURE	CEILING TYPE	AIR FUNCTION	VOLTAGE	OPTIONS				
LCAT LED Contemporary Architectural Troffer	Blank >80 9 >90 <sup>1</sup>	30 3000K 35 3500K 40 4000K 50 5000K	G Grid Lay-in <sup>2</sup> SM Surface Mount <sup>3</sup> CM Cable Suspended Mount <sup>3,4</sup>	Blank Static A Air Return Side Slots	U 120V-277V 347 347V	<b>ELL14</b> Emergency Battery Pack Installed, 1400 Lumens <sup>5,7</sup> <b>C388</b> 3-Wire Flex <b>C488</b> 4-Wire Flex <b>C588</b> 5-Wire Flex <b>GLR</b> Fast Blow Fuse <b>NYC</b> NYC Compliant <b>EOR</b> End of Row (SM and CM only. Provides end wiring access for continuous row mounting.) <sup>3</sup> <b>INT</b> Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.) <sup>3</sup> <b>CP</b> Chicago Plenum <b>ODP</b> Occupancy and Daylight Sensors, Philips <sup>8</sup> <b>ZRE</b> Wireless ZigBee® radio enabled <sup>9</sup>				
<b>SIZE</b> 24 2' x 4'	<b>LUMEN OUTPUT</b>		<b>SHIELDING</b>		<b>DRIVER</b>					
	<b>XW</b> Extra Low Watt <b>XWHE</b> Extra Low Watt High Efficacy <b>VW</b> Very Low Watt <b>VWHE</b> Very Low Watt High Efficacy <b>MW</b> Medium Low Watt <b>MWHE</b> Medium Low Watt High Efficacy <b>LW</b> Low Watt <b>ML</b> Medium Lumen <b>HL</b> High Lumen <b>VL</b> Very High Lumen <b>XL</b> Extra High Lumen		<b>Blank</b> Curve <b>R</b> Rectangular		<b>E</b> Fixed Output <b>ESD</b> Step Dimming <sup>5,7</sup> <b>ED</b> 0-10V Dimming <b>ED1</b> 0-10V 1% Dimming <b>LUTH</b> Lutron H Series 1% Dimming <sup>5,7</sup> <b>LUT5</b> Lutron S Series 5% Dimming <sup>5,7</sup>					
<b>ACCESSORIES (ORDER SEPARATELY)</b>		See Product Availability Table on following pages.								
<b>FK24</b> 2' x 4' Single Flange Kit (Shipped separately)										
<b>CM48Y2SC3F-KIT</b> 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire										

	XW	XWHE	VW	VWHE	MW	MWHE	LW	ML	HL	VL	XL
E	X	X	X	X	X	X	X	X	X	X	X
ED	X	X	X	X	X	X	X	X	X	X	X
ED1	X	X	X	X	X	X	X	X	X	X	X
ESD					X		X	X	X	X	X
LUT5	X		X		X		X	X	X		
LUTH	X		X		X		X	X	X		
347	X		X		X		X	X	X		X

<sup>1</sup> Not available with HE lumen output.  
<sup>2</sup> For drywall, order G with Flange Kit Accessory.  
<sup>3</sup> Not available with Air Return (A) air function.  
<sup>4</sup> Order hanger accessories separately.  
<sup>5</sup> Limitations apply based on lumen packages (see Driver Table).  
<sup>6</sup> For compatibility with Dual-Lite LiteGear® inverters, contact Hubbell Lighting Representative.  
<sup>7</sup> Not available in 347V.  
<sup>8</sup> Only available with 0-10V Dimming (ED) Driver Option.  
<sup>9</sup> Only available with 0-10V Dimming (ED, ED1) Driver Options.  
 For questions about configuration options, contact Hubbell Representative.

Product Availability 80 CRI					Product Availability 90 CRI				
Lumen Package	Shielding	Lumens	Input Watts	LPW	Lumen Package	Shielding	Lumens	Input Watts	LPW
LCAT24-30XW	Curve	2341	19.1	123	LCAT24-930XW	Curve	2142	20.3	106
LCAT24-30XWx-R	Rectangle	2601	20.3	128	LCAT24-930XWx-R	Rectangle	2212	20.3	109
LCAT24-30XWHE	Curve	2458	19.0	129					
LCAT24-30XWHEx-R	Rectangle	2555	20.0	128					
LCAT24-35XW	Curve	2424	19.1	127	LCAT24-935XW	Curve	2187	20.3	108
LCAT24-35XWx-R	Rectangle	2690	20.3	133	LCAT24-935XWx-R	Rectangle	2259	20.3	111
LCAT24-35XWHE	Curve	2542	19.0	134					
LCAT24-35XWHEx-R	Rectangle	2642	20.0	132					
LCAT24-40XW	Curve	2458	19.1	129	LCAT24-940XW	Curve	2234	20.3	110
LCAT24-40XWx-R	Rectangle	2732	20.3	135	LCAT24-940XWx-R	Rectangle	2308	20.3	114
LCAT24-40XWHE	Curve	2581	19.0	136					
LCAT24-40XWHEx-R	Rectangle	2683	20.0	134					
LCAT24-50XW	Curve	2524	19.1	132	LCAT24-950XW	Curve	2380	20.3	117
LCAT24-50XWx-R	Rectangle	2805	20.3	138	LCAT24-950XWx-R	Rectangle	2458	20.3	121
LCAT24-50XWHE	Curve	2650	19.0	139					
LCAT24-50XWHEx-R	Rectangle	2754	20.0	138					
LCAT24-30VW	Curve	3124	27.6	113	LCAT24-930VW	Curve	2655	27.6	96
LCAT24-30VWx-R	Rectangle	3224	28.2	114	LCAT24-930VWx-R	Rectangle	2740	28.2	97
LCAT24-30VWHE	Curve	3310	27.0	123					
LCAT24-30VWHEx-R	Rectangle	3280	26.0	126					
LCAT24-35VW	Curve	3217	27.6	117	LCAT24-935VW	Curve	2717	27.6	98
LCAT24-35VWx-R	Rectangle	3334	28.2	118	LCAT24-935VWx-R	Rectangle	2799	28.2	99
LCAT24-35VWHE	Curve	3409	27.0	126					
LCAT24-35VWHEx-R	Rectangle	3391	26.0	130					
LCAT24-40VW	Curve	3267	27.6	118	LCAT24-940VW	Curve	2780	27.6	101
LCAT24-40VWx-R	Rectangle	3386	28.2	120	LCAT24-940VWx-R	Rectangle	2859	28.2	101
LCAT24-40VWHE	Curve	3462	27.0	128					
LCAT24-40VWHEx-R	Rectangle	3443	26.0	132					
LCAT24-50VW	Curve	3558	27.6	129	LCAT24-950VW	Curve	2936	27.6	106
LCAT24-50VWx-R	Rectangle	3476	28.2	123	LCAT24-950VWx-R	Rectangle	3045	28.2	108
LCAT24-50VWHE	Curve	3770	27.0	140					
LCAT24-50VWHEx-R	Rectangle	3535	26.0	136					
LCAT24-30MW	Curve	3363	30.2	111	LCAT24-930MW	Curve	2859	30.2	95
LCAT24-30MWx-R	Rectangle	3472	30.2	115	LCAT24-930MWx-R	Rectangle	2953	30.2	98
LCAT24-30MWHE	Curve	3717	31.0	120					
LCAT24-30MWHEx-R	Rectangle	3660	29.0	126					
LCAT24-35MW	Curve	3464	30.2	115	LCAT24-935MW	Curve	2926	30.2	97
LCAT24-35MWx-R	Rectangle	3590	30.2	119	LCAT24-935MWx-R	Rectangle	3015	30.2	100
LCAT24-35MWHE	Curve	3829	31.0	124					
LCAT24-35MWHEx-R	Rectangle	3785	29.0	131					
LCAT24-40MW	Curve	3518	30.2	116	LCAT24-940MW	Curve	2993	30.2	99
LCAT24-40MWx-R	Rectangle	3646	30.2	121	LCAT24-940MWx-R	Rectangle	3080	30.2	102
LCAT24-40MWHE	Curve	3888	31.0	125					
LCAT24-40MWHEx-R	Rectangle	3843	29.0	133					
LCAT24-50MW	Curve	3831	30.2	127	LCAT24-950MW	Curve	3161	30.2	105
LCAT24-50MWx-R	Rectangle	3744	30.2	124	LCAT24-950MWx-R	Rectangle	3280	30.2	109
LCAT24-50MWHE	Curve	4234	31.0	137					
LCAT24-50MWHEx-R	Rectangle	3946	29.0	136					

Product Availability 80 CRI					Product Availability 90 CRI				
Lumen Package	Shielding	Lumens	Input Watts	LPW	Lumen Package	Shielding	Lumens	Input Watts	LPW
LCAT24-30LW	Curve	4268	36.1	118	LCAT24-930LW	Curve	3628	36.1	100
LCAT24-30LWx-R	Rectangle	4420	36.1	122	LCAT24-930LWx-R	Rectangle	3759	36.1	104
LCAT24-35LW	Curve	4396	36.1	122	LCAT24-935LW	Curve	3713	36.1	103
LCAT24-35LWx-R	Rectangle	4570	36.1	127	LCAT24-935LWx-R	Rectangle	3838	36.1	106
LCAT24-40LW	Curve	4465	36.1	124	LCAT24-940LW	Curve	3798	36.1	105
LCAT24-40LWx-R	Rectangle	4642	36.1	129	LCAT24-940LWx-R	Rectangle	3920	36.1	109
LCAT24-50LW	Curve	4861	36.1	135	LCAT24-950LW	Curve	4012	36.1	111
LCAT24-50LWx-R	Rectangle	4766	36.1	132	LCAT24-950LWx-R	Rectangle	4175	36.1	116
LCAT24-30ML	Curve	4771	38.8	123	LCAT24-930ML	Curve	4055	38.8	105
LCAT24-30MLx-R	Rectangle	4923	38.8	127	LCAT24-930MLx-R	Rectangle	4186	38.8	108
LCAT24-35ML	Curve	4914	38.8	127	LCAT24-935ML	Curve	4150	38.8	107
LCAT24-35MLx-R	Rectangle	5091	38.8	131	LCAT24-935MLx-R	Rectangle	4274	38.8	110
LCAT24-40ML	Curve	4990	38.8	129	LCAT24-940ML	Curve	4246	38.8	109
LCAT24-40MLx-R	Rectangle	5170	38.8	133	LCAT24-940MLx-R	Rectangle	4366	38.8	113
LCAT24-50ML	Curve	5434	38.8	140	LCAT24-950ML	Curve	4484	38.8	116
LCAT24-50MLx-R	Rectangle	5308	38.8	137	LCAT24-950MLx-R	Rectangle	4651	38.8	120
LCAT24-30HL	Curve	5443	44.0	124	LCAT24-930HL	Curve	4810	43.1	112
LCAT24-30HLx-R	Rectangle	5533	43.1	128	LCAT24-930HLx-R	Rectangle	4704	43.1	109
LCAT24-35HL	Curve	5606	44.0	127	LCAT24-935HL	Curve	4913	43.1	114
LCAT24-35HLx-R	Rectangle	5721	43.1	133	LCAT24-935HLx-R	Rectangle	4803	43.1	111
LCAT24-40HL	Curve	5694	44.0	129	LCAT24-940HL	Curve	5019	43.1	116
LCAT24-40HLx-R	Rectangle	5810	43.1	135	LCAT24-940HLx-R	Rectangle	4907	43.1	114
LCAT24-50HL	Curve	6200	44.0	141	LCAT24-950HL	Curve	5346	43.1	124
LCAT24-50HLx-R	Rectangle	5966	43.1	138	LCAT24-950HLx-R	Rectangle	5227	43.1	121
LCAT24-30VL	Curve	6999	59.0	119	LCAT24-930VL	Curve	5883	57.5	102
LCAT24-30VLx-R	Rectangle	6952	57.5	121	LCAT24-930VLx-R	Rectangle	5912	57.5	103
LCAT24-35VL	Curve	7209	59.0	122	LCAT24-935VL	Curve	6007	57.5	104
LCAT24-35VLx-R	Rectangle	7189	57.5	125	LCAT24-935VLx-R	Rectangle	6036	57.5	105
LCAT24-40VL	Curve	7321	59.0	124	LCAT24-940VL	Curve	6136	57.5	107
LCAT24-40VLx-R	Rectangle	7301	57.5	127	LCAT24-940VLx-R	Rectangle	6166	57.5	107
LCAT24-50VL	Curve	7972	59.0	135	LCAT24-950VL	Curve	6537	57.5	114
LCAT24-50VLx-R	Rectangle	7496	57.5	130	LCAT24-950VLx-R	Rectangle	6568	57.5	114
LCAT24-30XL	Curve	8168	73.8	111	LCAT24-930XL	Curve	7058	74.6	95
LCAT24-30XLx-R	Rectangle	8112	74.7	109	LCAT24-930XLx-R	Rectangle	6895	74.7	92
LCAT24-35XL	Curve	8412	73.8	114	LCAT24-935XL	Curve	7207	74.6	97
LCAT24-35XLx-R	Rectangle	8388	74.7	112	LCAT24-935XLx-R	Rectangle	7043	74.7	94
LCAT24-40XL	Curve	8547	73.8	116	LCAT24-940XL	Curve	7362	74.6	99
LCAT24-40XLx-R	Rectangle	8519	74.7	114	LCAT24-940XLx-R	Rectangle	7194	74.7	96
LCAT24-50XL	Curve	9304	73.8	126	LCAT24-950XL	Curve	7842	74.6	105
LCAT24-50XLx-R	Rectangle	8747	74.7	117	LCAT24-950XLx-R	Rectangle	7664	74.7	103

Test 16519 Test Date 6/13/2016

**PHOTOMETRIC DATA**

**LUMINAIRE DATA**

Luminaire	LCAT24-35LWG-EU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	Xi040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4396
Watts	36.10
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.22 90° = 1.32
Luminous Opening in Feet	Length: 3.92 Width: 1.92 Height: 0.00

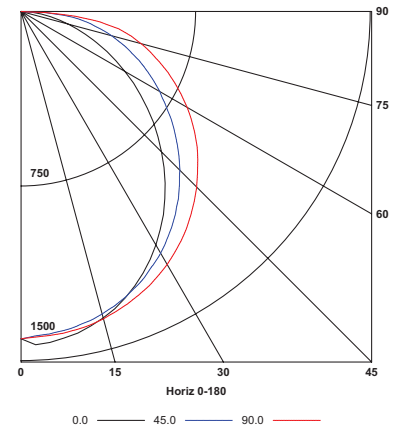
**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1098	25.0	25.0
0-40	1804	41.0	41.0
0-60	3240	73.7	73.7
0-90	4396	100.0	100.0
0-180	4396	100.0	100.0

**ENERGY DATA**

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	122
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$1.97 based on 3000 hrs. and \$0.08 per KWH

**INDOOR CANDELA PLOT**



Test 16522 Test Date 7/27/2016

**LUMINAIRE DATA**

Luminaire	LCAT24-35MLG-EU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	Xi040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4914
Watts	38.80
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.22 90° = 1.30
Luminous Opening in Feet	Length: 3.92 Width: 1.92 Height: 0.00

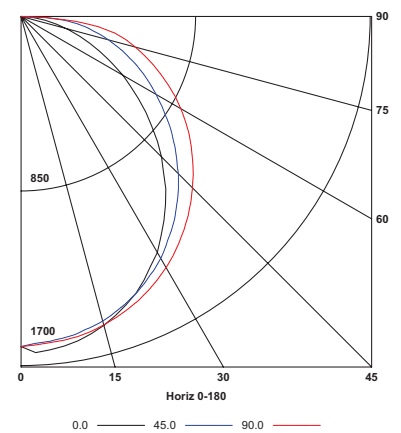
**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1250	25.4	25.4
0-40	2049	41.7	41.7
0-60	3648	74.2	74.2
0-90	4914	100.0	100.0
0-180	4914	100.0	100.0

**ENERGY DATA**

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	127
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$1.90 based on 3000 hrs. and \$0.08 per KWH

**INDOOR CANDELA PLOT**



Test 16525 Test Date 8/25/2016

**LUMINAIRE DATA**

Luminaire	LCAT24-35HLG-EU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	Xi054C150V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	5607
Watts	44.00
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.22 90° = 1.31
Luminous Opening in Feet	Length: 1.75 Width: 1.83 Height: 0.00

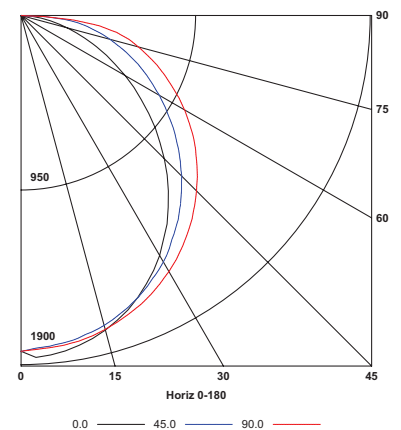
**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1422	25.4	25.4
0-40	2333	41.6	41.6
0-60	4161	74.2	74.5
0-90	5607	100.0	100.0
0-180	5607	100.0	100.0

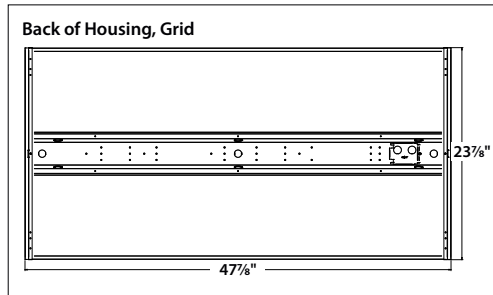
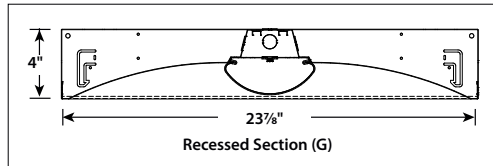
**ENERGY DATA**

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	127
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$1.89 based on 3000 hrs. and \$0.08 per KWH

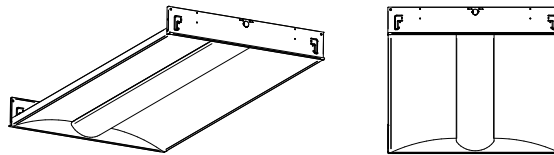
**INDOOR CANDELA PLOT**



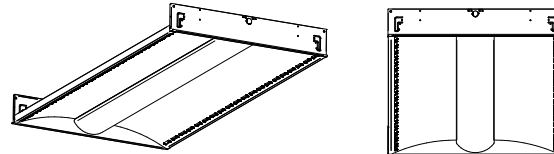
### DIMENSIONAL DATA — GRID



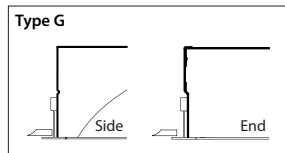
### GRID, STATIC



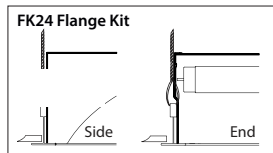
### GRID, AIR RETURN



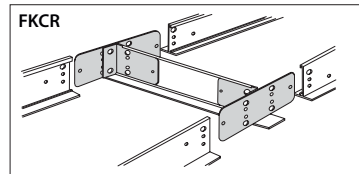
### CEILING COMPATIBILITY



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.



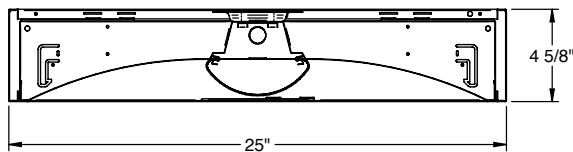
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters:  
Width 24 3/8", Length [48" x (# in row)] + 3/8"  
Example: (48" x 2) + 3/8" = 96 3/8"

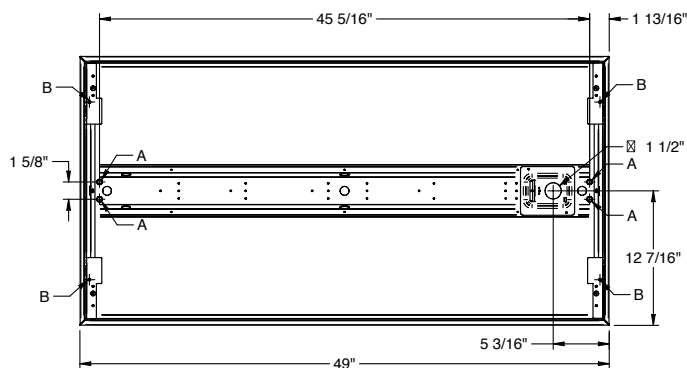
**Flange kit cut out dimension for single unit only: 24 3/8" x 48 3/8"**

### DIMENSIONAL DATA — SURFACE MOUNT OR CABLE MOUNT, STATIC ONLY

#### Surface Section (SM)



#### Back of Housing, Surface Mount (SM) and Cable Mount (CM)



#### Surface Mount:

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, 3/8", provided in center channel as indicated at left, marked A.

#### Cable Mount:

Order CM ceiling type. Use CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide CM trim fixtures. Mounting holes are provided in diagonal straps shown at left, marked B.

\* For Cable Mount a 2' x 3" access plate with (4) 7/8" KOs provided in place of Mounting Collar shown.

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