

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

**FEATURES**

- Wide, convex lens provides modern style
- Room-side access
- 3-11/16" depth for shallow plenum applications
- High efficacy fixture delivers up to 132 lm/W
- Rated for direct contact with insulation
- Heavy duty C.R.S. construction
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING/REFLECTOR** – Precision die-formed 22-gauge C.R.S.
- SHIELDING** – Diffuse acrylic.
- FINISH** – Highly reflective non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High quality mid-power LED boards. L80 > 60,000 hours.
- MOUNTING** – Designed for NEMA Type "G" 1" grid ceiling standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Drywall kit accessories available for flange applications, shipped separately, see options.
- LISTINGS** –
  - CCSAUS certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - City of Chicago Environmental Air approved when specified with CP option.
- WARRANTY** – 5-year limited fixture warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: CT - 24 - L88/835 - A - OPTIONS - CONTROL/DIM - UNV**

**ORDERING INFO**

SERIES	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT	SHIELDING
CT	2 2'	2 2'	2x2	8 80	27 2700K	A Diffuse acrylic
		4 4'	L28 2,800lm	9 90 <sup>[2]</sup>	30 3000K	
			L36 3,600lm		35 3500K	
			L53 5,300lm		40 4000K	
					50 5000K	
			2x4			
			L28 2,800lm			
			L36 3,600lm			
			L49 4,900lm			
			L59 5,900lm			
		L88 8,800lm				

**OPTIONS**

- EM/10WLP** Low-profile 10-watt emergency battery <sup>[4]</sup>
- EM/10WRM** Remote mount 10-watt emergency battery
- EQCLIPS** Earthquake clips <sup>[5]</sup>
- (L\_\_)** Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package  
**Example:** 7,000 nominal lumens = CT-24-L88/835-(L70)
- AMW** Anti-microbial white finish
- CP** Chicago plenum (CCEA)
- DFK-2424W** Drywall kit, 24" x 24", white <sup>[6]</sup>
- DFK-2448W** Drywall kit, 24" x 48", white <sup>[7]</sup>

**CONTROL <sup>[3]</sup>**

- None
- AVI-LVFA** Avi-on wireless fixture control <sup>[8]</sup>

**DRIVER <sup>[9]</sup>**

DRIVER	VOLTAGE
<b>DIM</b> Driver with external dimming wires	120 120V
<b>DRV</b> Driver without external dimming wires	277 277V
<b>DA</b> Driver with 12V auxiliary power, without external dimming wires <sup>[10]</sup>	UNV 120-277V 347 347V <sup>[11]</sup>



**NOTES**

- Nominal lumen output based on 3500 CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability.
- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- 2' x 4' only.
- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- See page 3 for DRYWALL KIT (DFK) OPTIONS.
- See page 3 for DRYWALL KIT (DFK) OPTIONS.
- DA Driver only.
- See page 4 for ADDITIONAL DRIVER OPTIONS.
- Avi-on Controls only.
- Not available with EM batteries or Avi-on Controls.



## FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2x2	L28	2748	23.2	118.6
	L36	3550	32.9	107.9
	L53	5148	45.3	117.0
2x4	L28	2739	23.0	119.2
	L36	3553	32.8	108.2
	L49	4948	39.5	125.2
	L59	5809	47.6	122.0
	L88	8303	66.2	132.6

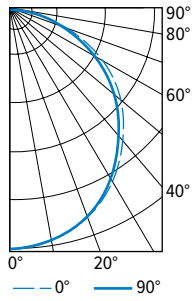
## MULTIPLIER TABLE

		COLOR TEMPERATURE	
		CCT	CONVERSION FACTOR
80 CRI	2700K		0.97
	3000K		0.99
	3500K		1.00
	4000K		1.03
	5000K		1.06
90 CRI	2700K		0.80
	3000K		0.82
	3500K		0.83
	4000K		0.86
	5000K		0.89

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

## PHOTOMETRY

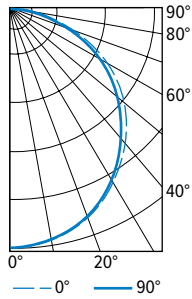
**CT-22-L53/835-A-DIM** Total Luminaire Output: 5148 lumens; 45.3 Watts | Efficacy: 117.0 lm/W | 84 CRI; 3520K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1796	1796	1796	
5	1790	1784	1784	43
15	1719	1720	1726	207
25	1589	1593	1603	342
35	1387	1403	1426	428
45	1156	1179	1216	459
55	897	931	967	433
65	618	653	683	351
75	339	361	376	226
85	95	98	101	86
90	4	10	5	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2268	44
	0 - 60	4012	78
	0 - 90	5148	100
	0 - 180	5148	100

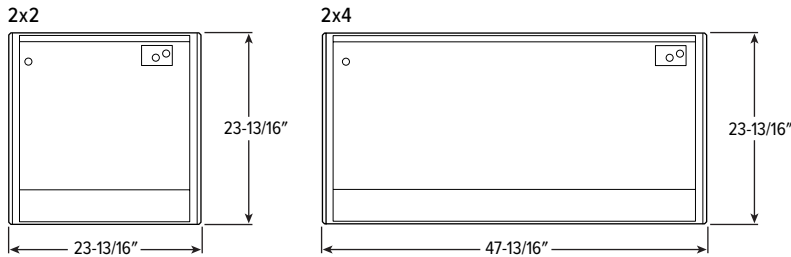
**CT-24-L88/835-A-DIM** Total Luminaire Output: 8303 lumens; 66.2 Watts | Efficacy: 132.6 lm/W | 84 CRI; 3490K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2836	2836	2836	
5	2824	2821	2817	68
15	2717	2721	2728	327
25	2511	2524	2540	541
35	2221	2241	2270	682
45	1868	1902	1942	736
55	1460	1514	1560	702
65	1008	1067	1110	572
75	551	600	631	373
85	156	180	203	151
90	15	34	43	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	3602	43
	0 - 60	6418	77
	0 - 90	8303	100
	0 - 180	8303	100

## BACK VIEW DETAILS

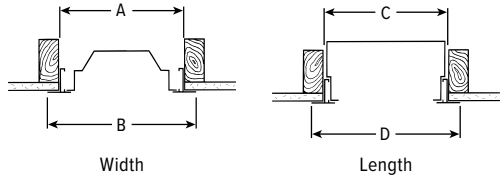


**DRYWALL KIT (DFK) OPTIONS**

ORDERING EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall Kit	See table below	See table below	<b>W</b> White <b>AMW</b> Anti-microbial white

**TYPICAL INSTALLATION**

Refer to table for dimensions.



CATALOG NUMBER	NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
		WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
DFK-2424	2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
DFK-2448	2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

SEE NEXT PAGE FOR CONTROL DETAILS.



## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### AVI-ON NETWORK FEATURES

#### Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small areas to large warehouses
- Flexible control strategies

#### Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.



Commissioning Mobile App

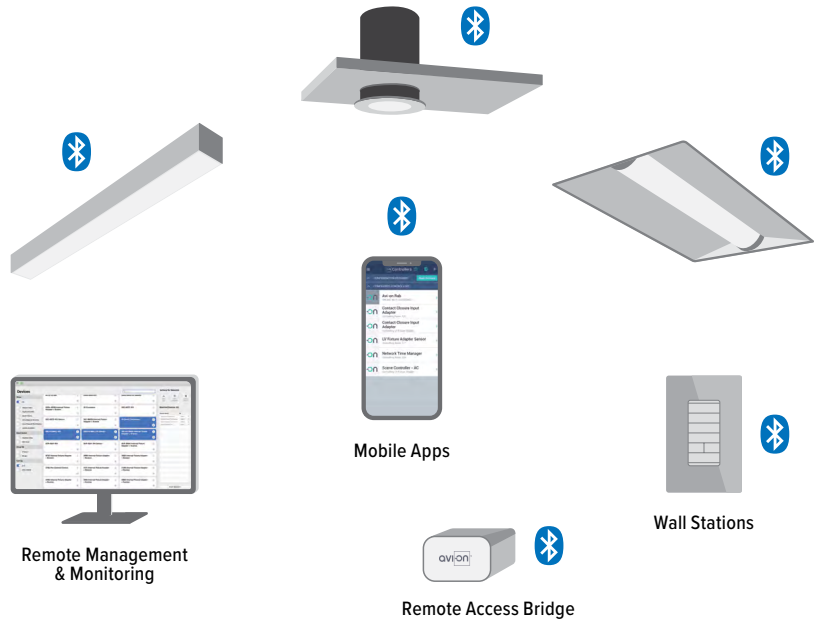


Zone Scanner Web App



Commissioning Pro App

### SYSTEM COMPONENTS



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### ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered
CONNECTIVITY	
AVI-2001RAB-01-P	Remote access bridge for projects 100 or greater
AVI-2001RAB-01-C	Remote access bridge for projects less than 100
AVI-KIT-NTM	Network time manager with Battery Backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

### ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Dimming driver with 12V auxiliary
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

