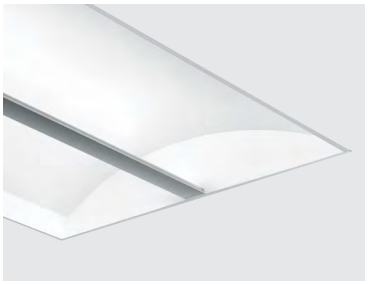
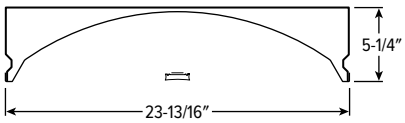
BAR LED
Indirect Architectural Recessed





2x2 | 2x4 Shown

CATALOG #:

Type:

PROJECT:

BAA & BABA COMPLIANT | Low UGR | CCEA Approved | TW

FEATURES

- Unique curved housing with central linear element delivers sophisticated illumination across diverse applications
- Indirect design provides soft, even light distribution for visual comfort
- Anodized aluminum rail creates architectural focal point
- Low UGR meets LEED and WELL requirements
- 1×4, 2×2, and 2×4 sizes suit multiple design scenarios
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Simple lift-and-shift driver box provides easier access than traditional enclosures
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Precision die-formed 22-gauge C.R.S. with anodized aluminum center bar
- FINISH – 95% reflective 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. L70 >60,000 hours per IES TM-21. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – NEMA Type “G” 15/16″ or 1″ grid standard. For NEMA Type “NFG” and “SG” 9/16″ grid installations, specify EQCLIPS option. Drywall kit accessories available, 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.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited fixture warranty, see hew.com/warranty

ORDERING EXAMPLE: BAR - 22 - L50/835 - OPTIONS - CONTROL/DIM - UNV

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT
BAR	**1** 1′ [2]	**2** 2′	**1x4**	**8** 80	**27** 2700K
	2 2′	**4** 4′	**L30** 3,000lm	**9** 90	**30** 3000K
			L60 6,000lm		**35** 3500K
			2x2		**40** 4000K
			L20 2,000lm		**50** 5000K
			L30 3,000lm		**TW** Tunable white (3000K–5000K)
			L50 5,000lm		**TW2** Tunable white (2700K-6500K)
			2x4		
			L40 4,000lm		
			L60 6,000lm		
			L75 7,500lm [3]		

OPTIONS

*See page 2 for **FLEXIBLE WHIP OPTIONS.***

*See page 3 for **DRYWALL KIT (DFK) OPTIONS.***

EM/10W	10-watt emergency battery
EM/10W/ST	10-watt self-diagnostic emergency battery
EQCLIPS	Earthquake clips [4]
(L__)	Additional lower lumen packages available [5] Example: 5,000 nominal lumens = BAR-24-L60/835-**(L50)**
DFK-1248W	Drywall kit, 12″ x 48″, white
DFK-2424W	Drywall kit, 24″ x 24″, white
DFK-2448W	Drywall kit, 24″ x 48″, white
CP	Chicago Plenum (CCEA)
PCX WHT	Painted center extrusion, textured white
PCX BLK	Painted center extrusion, textured black
PCX RAL#____	Painted center extrusion, custom color [6]

CONTROL

*Click **HERE** for control and sensor options.*

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS.***

DIM	Driver with external 0-10V dimming wires [8]
DIM1	1% Driver with external 0-10V dimming wires [9]
DRV	Driver without external dimming wires [10]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [7]

NOTES

1. Lumens based on 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. 4′ length only.
3. Not available with IC-rating when specified with EM battery.
4. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting.
5. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
6. Specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.
7. Not available with Tunable White or EM batteries.
8. 0.1% Driver with tunable white.
9. Not available with tunable white.
10. Not available with tunable white.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	UNIFIED GLARE RATING (UGR) [1]	
					CROSSWISE	ENDWISE
1x4	L30	2950	23.8	124	20.8	17.8
	L60	6002	51.9	116	23.2	20.2
2x2	L20	2027	15.5	131	18.9	18.1
	L30	2981	23.2	129	20.2	19.4
	L50	4912	38.6	127	21.9	21.1
2x4	L40	4058	31.2	130	19.3	17.8
	L60	5865	45.6	129	20.5	19.0
	L75	7585	61.2	124	21.4	19.9

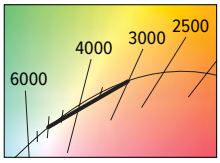
[1] UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K for single CCT and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

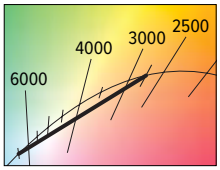
MULTIPLIER TABLE

	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

TW

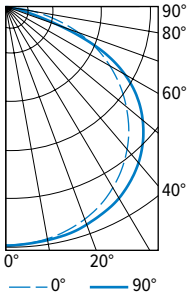


TW2



PHOTOMETRY

BAR-24-L40/835 Total Luminaire Output: 4058 lumens; 31.2 Watts | Efficacy: 130 lm/W | 80 CRI; 3500K CCT

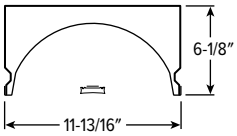


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1297	1297	1297	
	5	1292	1290	1294	123
	15	1258	1263	1278	358
	25	1185	1206	1229	556
	35	1068	1112	1146	694
	45	914	978	1018	750
	55	729	807	835	710
	65	524	594	547	555
	75	288	248	139	261
	85	65	34	28	52
	90	0	0	0	

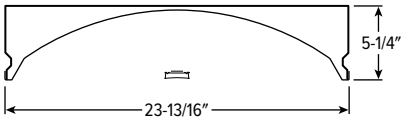
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1731	43
	0 - 60	3191	79
	0 - 90	4058	100
	0 - 180	4058	100

CROSS SECTIONS

1x4



2x2 | 2x4



PAINTED CENTER EXTRUSION FINISH DETAILS

WHITE

BLACK

RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

FLEXIBLE WHIP OPTIONS

All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire.

Straight connectors are a snap-in type. Consult factory for wiring harness utilizing connectors secured by lock nuts, optional flex size, lengths, and other wire sizes or circuitry. Three-wire flex utilizes black, white, and green wire. Four-wire flex utilizes black, white, red, and green wire. Adding an emergency option requires an additional wire.

Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices, consult factory for availability and ordering information.

DESIGNATION	DESCRIPTION	DRIVER
F338B	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348D	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	DRV + EM, SD40
F334B	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344D	6' of 3/8" flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F354AB	6' of 3/8" flex, (5) No. 14 AWG wires with (2) straight connectors	DIM, DALI
F358AB	6' of 3/8" flex, (5) No. 18 AWG wires with (2) straight connectors	DIM, DALI
F368Y	6' of 3/8" flex, (6) No. 18 AWG wires with (2) straight connectors	DIM, DIM + EM, DALI

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DRYWALL KIT (DFK) OPTIONS

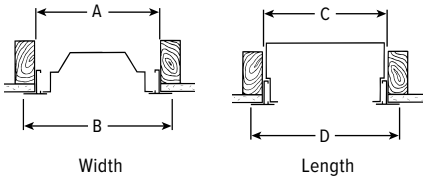
ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	**12** 1′	**48** 4′	**W** White
	24 2′	**24** 2′	**AMW** Anti-microbial white
	24 2′	**48** 4′	

INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1′ x 4′	12-3/8″	48-3/8″	13-5/16″	49-5/16″
2′ x 2′	24-3/8″	24-3/8″	25-5/16″	25-5/16″
2′ x 4′	24-3/8″	48-3/8″	25-5/16″	49-5/16″

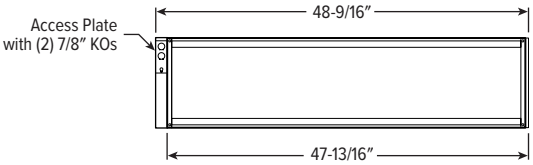
TYPICAL INSTALLATION



FIXTURE DETAILS

BACK VIEW

1x4



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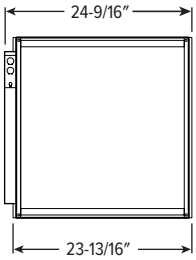

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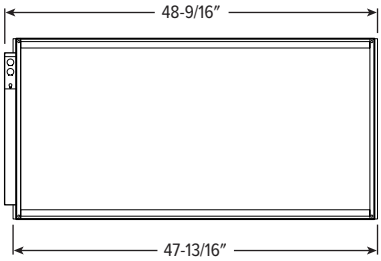
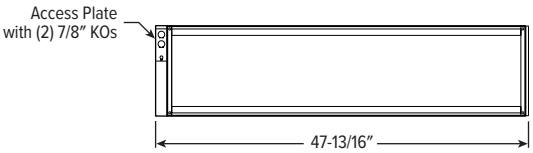


EM BATTERY BACK VIEW

1x4



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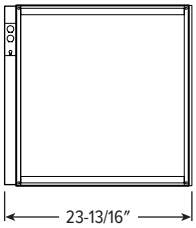

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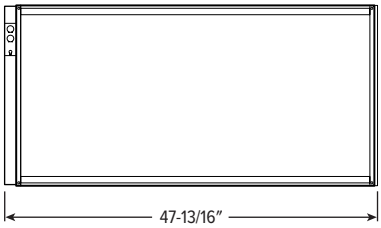
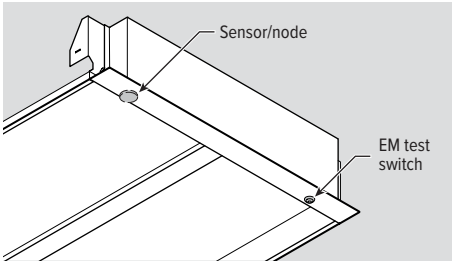
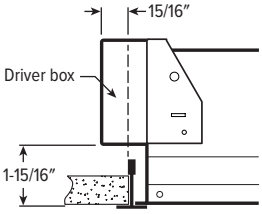


OPTIONS PLACEMENT

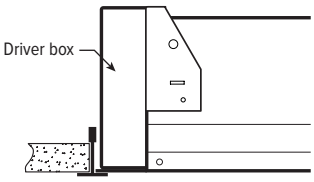


GRID INSTALLATION

Standard



EM Battery



SEE NEXT PAGE FOR DRIVER OPTIONS

ADDITIONAL DRIVER OPTIONS

4,500 lumens max when specified with DMX driver.
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM

DALI

DMX

LD2