

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

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

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



**FEATURES**

- Provides soft, uniform illumination
- Choice of three diffusers to enhance the space
- Power and light levels can be custom set to meet energy and design needs
- Multiple dimming protocols available
- Rated for direct contact with insulation
- Shallow housing depth
- HE option delivers superior efficacies up to 170 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING – 20-gauge die-formed C.R.S.
- REFLECTOR – Precision die-formed C.R.S. with highly reflective non-glare matte white polyester powder coated finish.
- SHIELDING – Ribbed acrylic standard.
- 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. L70 at 50,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 50/60 Hz constant current driver.
- MOUNTING – NEMA Type “G” 15/16” or 1” grid standard. For NEMA Type “NFG” 9/16” grid installation, specify EQCLIPS option. NEMA Type “SS” 9/16” grid installation available (earthquake clips included). Drywall kit accessories available for flange applications, shipped separately, see options.
- LISTINGS –
  - cCSAus conforms to UL STD 1598. 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](http://hew.com/buy-american)
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

**ORDERING EXAMPLE: DI G - S 2 4 - L98/835 - AD - OPTIONS - CONTROL/DIM - UNV**

SERIES	CEILING TYPE <sup>[1]</sup>	FIXTURE STYLE	WIDTH	LENGTH	LUMENS <sup>[2]</sup>	
DI	G 15/16” or 1” grid	S Static, no air capability	1 1’ <sup>[4]</sup>	2 2’	1x4	2x4
	SG 9/16” Screw slot grid <sup>[3]</sup>		2 2’	4 4’	L28 2,800lm L47 4,700lm L60 6,000lm	L50 5,000lm L64 6,400lm L88 8,800lm L98 9,800lm
					2x2	L24 2,400lm L32 3,200lm L48 4,800lm

CRI	CCT	SHIELDING <sup>[5]</sup>	
8 80	27 2700K	AD	Ribbed acrylic
9 90	30 3000K	WPR	White perforated round
	35 3500K	WPR/ACRY/CTR/CLR	White perforated round with center clear acrylic <sup>[6]</sup>
	40 4000K		
	50 5000K		

**OPTIONS <sup>[7]</sup>**

See page 3 for FLEXIBLE WHIP OPTIONS.

- EM/10W 10-watt emergency battery
- EQCLIPS Earthquake clips <sup>[8]</sup>
- (L\_\_ ) Additional lower lumen packages available <sup>[9]</sup>  
Example: 7,000 nominal lumens = DIG-S24-L88/850-(L70)
- HE High efficacy lumen package <sup>[10]</sup>
- CP Chicago Plenum (CCEA)
- DFK-1248W Drywall kit, 12” x 24”, white
- DFK-2424W Drywall kit, 24” x 24”, white
- DFK-2448W Drywall kit, 24” x 48”, white

**CONTROL**

Click [HERE](#) for control and sensor options.

- None

**DRIVER**

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

- DIM Driver with external 0-10V dimming wires
- DIM1 1% Driver with external 0-10V dimming wires
- DRV Driver without external dimming wires

**VOLTAGE**

- 120 120V
- 277 277V
- UNV 120-277V
- 347 347V <sup>[11]</sup>

**NOTES**

- See page 3 for DRY WALL KIT (DFK) OPTIONS.
- Lumen output based on AD Shielding, 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- Earthquake clips included.
- Available with 4’ length only.
- See page 3 for SHIELDING DETAILS.
- 2x2 and 2x4 only. Consult factory for additional colors.
- See page 3 for DRY WALL KIT (DFK) OPTIONS.
- 4 per fixture. Optional for 1” grid installations. Required for 9/16” grid mounting.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with 90 CRI, 1x4 L28, 2x2 L24, or 2x4 L50 lumen packages. See page 2 for FIXTURE PERFORMANCE DATA.
- Not available with EM batteries.



**FIXTURE PERFORMANCE DATA**

	LED PACKAGE	DELIVERED LUMENS	STANDARD		HE OPTION <sup>(1)</sup>	
			WATTAGE	EFFICACY (lm/W)	WATTAGE	EFFICACY (lm/W)
1x4	L28	2810	21.4	131	-	-
	L47	4844	35.2	138	28.5	170
	L60	6009	46.3	130	35.8	168
2x2	L24	2472	19.6	126	-	-
	L32	3286	25.8	127	20.6	160
	L48	4862	38.1	128	29.5	165
2x4	L50	5060	37.4	135	-	-
	L64	6161	47.4	130	40.1	154
	L88	8857	66.3	134	54.1	164
	L98	9869	74.8	132	60.6	163

<sup>1</sup> Not available with 90 CRI.

**MULTIPLIER TABLES**

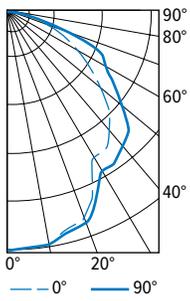
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

LENS	SHIELDING	
	1x4	2x2   2x4
AD	1.00	1.00
WPR	0.78	0.78
WPR/ACRY	-	0.76

- Photometrics tested in accordance with IESNA LM-79. Results based on AD shielding, 80 CRI/3500K CCT, 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.

**PHOTOMETRY**

**DIG-S24-L98/835-AD** Total Luminaire Output: 9869 lumens; 74.8 Watts | Efficacy: 132 lm/W | 80 CRI; 3500K CCT



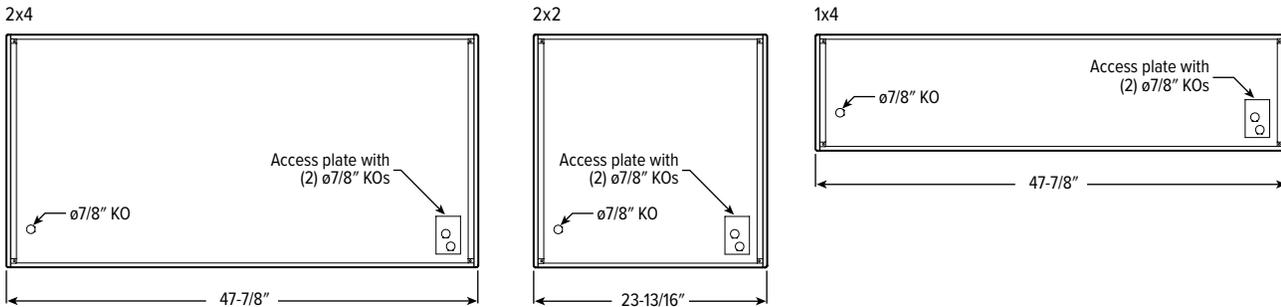
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3587	3587	3587	
5	3545	3544	3546	338
15	3373	3397	3417	966
25	2975	3043	3097	1406
35	2531	2670	2771	1659
45	2156	2386	2530	1789
55	1519	1778	1939	1574
65	1009	1309	1567	1257
75	506	687	618	689
85	143	158	173	189
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2710	28
	0 - 40	4369	44
	0 - 60	7733	78
	0 - 90	9869	100
	0 - 180	9869	100

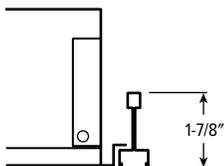
**FIXTURE DETAILS**

See [hew.com/power-entry](http://hew.com/power-entry) for power entry details.

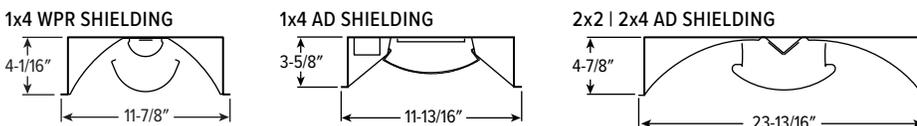
**BACKVIEW**



**SG CEILING TYPE**



**CROSS SECTIONS**



**SHIELDING DETAILS**



**DRYWALL KIT (DFK) OPTIONS**

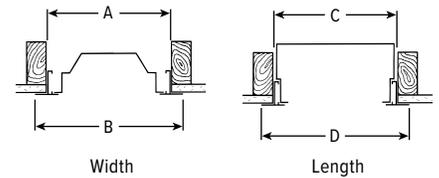
**ORDERING INFO**

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**



**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
F338	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	DRV + EM, SD40
F334	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6' of 3/8" flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F358	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

**ADDITIONAL CONTROL/DRIVER OPTIONS**

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

CATALOG NUMBER	DESCRIPTION
DRV	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications
DIM1	1% driver with external dimming wires 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	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
D4I	DALI-2 sensor-ready driver without external dimming wires (not available with 347V)
DALI	DALI dimming driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver
PoE PR	Power over Ethernet-ready Note: PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system