

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

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

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

**FEATURES**

- Provides soft, smooth illumination in three perfectly square sizes
- Combine 2', 3' and 4' fixtures in your space to create a unique, modern ceiling
- Large-format design complements the RND family
- Fully-enclosed spring-loaded cam latches allow years of hassle-free maintenance
- T-slot steel hinge ensures positive retention when door is opened
- Deep reinforcement ribs provide added strength
- Rolled-edge channel adds superior strength
- Integral T-bar clips quickly secure fixture to structure
- Fully gasketed door minimizes contaminants
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING** – .040" thick die-formed aluminum
- DOOR FRAME** – .050" extruded aluminum, flat or regress, with mitered corners. T-slot steel hinge allows reversible hinging and latching. Fully enclosed spring-loaded cam latches.
- SHIELDING** – KSH frostglaze, .125" thick.
- FINISH** – 92% minimum average 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. L85 at 50,000 hours.
- MOUNTING** – NEMA Type "G" standard. NEMA Type "F" available. (4) T-bar EQ clips standard.
- LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: SQR G - 44 - L200/835 - F FG125 - OPTIONS - DIM - UNV**

**ORDERING INFO**

SERIES	CEILING TYPE	SIZE	LUMENS <sup>[1]</sup>	CRI	CCT	DOOR FRAME
SQR	G NEMA Type "G"	22 2' x 2'	2x2	8 80	27 2700K	F White flat aluminum
	F NEMA Type "F" <sup>[2]</sup>	33 3' x 3'	L42 4,200lm	9 90 <sup>[3]</sup>	30 3000K	R White regress aluminum
		44 4' x 4'	L65 6,500lm		35 3500K	FB Black flat aluminum
			3x3	L67 6,700lm	40 4000K	RB Black regress aluminum
				L150 15,000lm	50 5000K	
			4x4	L113 11,300lm		
				L200 20,000lm		

SHIELDING	OPTIONS <sup>[4]</sup>	CONTROL <sup>[5]</sup>	VOLTAGE
FG125 KSH frostglaze, .125" thick	EM/10W 10-watt emergency battery <sup>[6]</sup>	DRV Non-dimming driver	120 120V
	DG Double gasket <sup>[7]</sup>	DIM Dimming driver	277 277V
	TG Triple gasket <sup>[8]</sup>		UNV 120-277V
	(L_ _) Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package. Example: 17,000 nominal lumens = SQRG-44-L200/835-(L170)		347 347V <sup>[9]</sup>
	CP Chicago plenum (CCEA)		
	DFK-2424W Drywall kit, 24" x 24", white		
	DFK-3636W Drywall kit, 36" x 36", white		
	DFK-4848W Drywall kit, 48" x 48", white		

**NOTES**

- Lumen output based on 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
- See page 3 for NEMA TYPE "F" INSTALLATION.
- Extended lead times may apply. Consult factory for availability.
- See Technical Info for DRYWALL KIT and POWER ENTRY details.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- 120V - 277V only.
- Flat aluminum door only. See page 3 for GASKETING DETAILS.
- Flat aluminum door only. See page 3 for GASKETING DETAILS.
- Not available with EM battery.

## FIXTURE PERFORMANCE DATA

	LUMEN PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2x2	L42	4153	46.3	89.8
	L65	6538	68.8	95.0
3x3	L67	6743	74.7	90.3
	L150	15158	172.1	88.1
4x4	L113	11312	127.5	88.7
	L200	20158	226.9	88.8

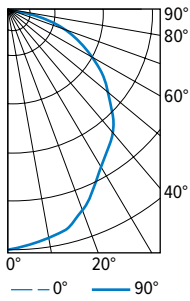
## MULTIPLIER TABLE

		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

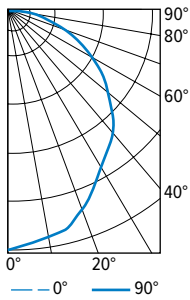
**SQR-S22-L42/835-FFG125** Total Luminaire Output: 4153 lumens; 46.3 Watts | Efficacy: 89.8 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1556	1556	1556	
	5	1523	1521	1522	145
	15	1468	1469	1469	412
	25	1294	1296	1298	596
	35	1117	1119	1123	703
	45	961	967	970	743
	55	751	753	758	669
	65	516	515	523	507
	75	269	264	273	289
	85	76	73	78	89
	90	8	10	10	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1153	28
	0 - 40	1857	45
	0 - 60	3268	79
	0 - 90	4153	100
	0 - 180	4153	100

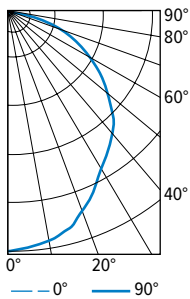
**SQR-S33-L67/835-FFG125** Total Luminaire Output: 6743 lumens; 74.7 Watts | Efficacy: 90.3 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2526	2526	2526	
	5	2473	2470	2471	236
	15	2384	2385	2385	668
	25	2101	2104	2107	968
	35	1813	1818	1823	1142
	45	1561	1569	1575	1207
	55	1219	1223	1231	1086
	65	837	836	850	822
	75	437	429	443	469
	85	123	118	127	145
	90	14	17	17	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1872	28
	0 - 40	3014	45
	0 - 60	5307	79
	0 - 90	6743	100
	0 - 180	6743	100

**SQR-S44-L113/835-FFG125** Total Luminaire Output: 11312 lumens; 127.5 Watts | Efficacy: 88.7 lm/W | 82 CRI; 3087K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	4224	4224	4224	
	5	4135	4130	4132	394
	15	3986	3988	3988	1130
	25	3513	3518	3523	1628
	35	3032	3039	3048	1910
	45	2610	2624	2633	2033
	55	2038	2044	2058	1836
	65	1400	1398	1421	1393
	75	731	717	740	767
	85	206	197	213	221
	90	23	28	28	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3153	28
	0 - 40	5062	45
	0 - 60	8931	79
	0 - 90	11312	100
	0 - 180	11312	100



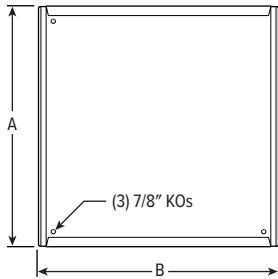
## ADDITIONAL CONTROL OPTIONS

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 or 277V only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

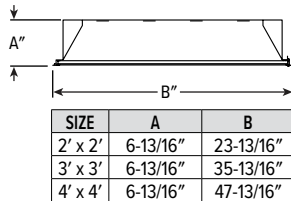
## FIXTURE DETAILS

### BACK VIEW

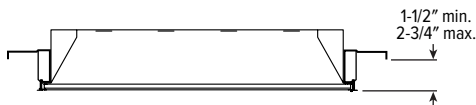


SIZE	A	B
2' x 2'	23-13/16"	23-13/16"
3' x 3'	35-13/16"	35-13/16"
4' x 4'	47-13/16"	47-13/16"

### CROSS SECTION



## NEMA TYPE "F" INSTALLATION

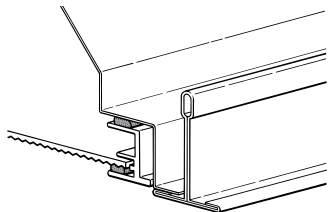


Note: Maximum recommended ceiling opening is 24-3/8" x 24-3/8", 36-3/8" x 36-3/8", or 48-3/8" x 48-3/8".

For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

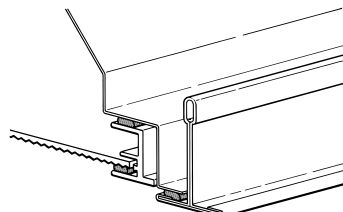
## GASKETING DETAILS

### DOUBLE GASKETING



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens.

### TRIPLE GASKETING



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field installed.

