









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
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING .040" thick die-formed aluminum with 22-gauge steel end plates.
- 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" 15/16" or 1" grid standard. Drywall flange kits available, shipped separately, see options. (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.
 - IC-rated for direct contact with insulation when specified with L113 lumen package or lower.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: SQR G - 44 - L200/835 - FFG125 - OPTIONS - CONTROL/DIM - UNV

47-13/16"

ORDERING INFO

6-13/16"

SERIES	CEILING TYPE	SIZE	LUMEN	S ^[1]	CRI	CCT	DOOR FRAME
SQR	G 15/16" or 1" grid F Flange ^[2]	22 2' x 2' 33 3' x 3' 44 4' x 4'	L65 3x3 L67	4,200lm 6,500lm 6,700lm 15,000lm	8 80 9 90 ^[3]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	F White flat aluminum R White regress aluminum FB Black flat aluminum RB Black regress aluminum
			L113	11,300lm			
			L200	20,000lm			

PROJECT: _

FG125 KSH frostglaze, EM/10W 10-watt emergency battery .125" thick Double gasket ^[6] Triple gasket ^[7] DG TG Additional lower lumen packages (L__) available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

Example: 17,000 nominal lumens = COC 44,1200/92 (1470) SQRG-44-L200/835-(**L170**) 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

OPTIONS [4]

CONTROL [5]

See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS.

AVI-LVFA Avi-on wireless fixture control [8] AWNR Lutron Athena wireless node integral fixture control, RF only [9]

DRIVER

SHIELDING

See page 4 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM Driver with external dimming wires **DRV** Driver without external dimming wires

Driver with 12V auxiliary power, without external dimming wires [10]

Sensor-ready driver without external dimming wires (D4i DALI-2) [11]

VOLTAGE

120 120V 277 277V **UNV** 120-277V 347 347V [12]

- Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options. See page 3 for F CEILING TYPE INSTALLATION. Extended lead times may apply. Consult factory for availability. See page 3 for DRYWALL KIT (DFK) OPTIONS. See Technical Info for POWER ENTRY details.

 See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

- Flat aluminum door only. See page 3 for GASKETING DETAILS.
- Flat aluminum door only. Field-installed. See page 3 for GASKETING DETAILS.
- DA Driver only.
 DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Athena Controls only.

 Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	LUMEN PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
2x2	L42	4153	46.3	90
ĺ ≈	L65	6538	68.8	95
3x3	L67	6743	74.7	90
က်	L150	15158	172.1	88
4×4	L113	11312	127.5	89
₹	L200	20158	226.9	89

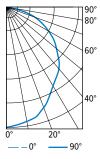
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%
 To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 Use multiplier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

MULTIPLIER TABLE

	COLOR TEMPERATURE					
	CCT	CONVERSION FACTOR				
	2700K	0.97				
80 CRI	3000K	0.99				
	3500K	1.00				
	4000K	1.03				
	5000K	1.06				
	2700K	0.80				
~	3000K	0.82				
90 CRI	3500K	0.83				
6	4000K	0.86				
	5000K	0.89				

PHOTOMETRY

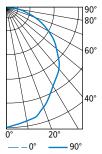
SQR-522-L42/835-FFG125 Total Luminaire Output: 4153 lumens; 46.3 Watts | Efficacy: 89.8 lm/W | 80 CRI; 3500K CCT



	VEDTICAL ANGLE	НО	ZONAL LUMENC		
	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
8	0	1556	1556	1556	
CANDLEPOWER DISTRIBUTION	5	1523	1521	1522	145
문	15	1468	1469	1469	412
S	25	1294	1296	1298	596
2	35	1117	1119	1123	703
No.	45	961	967	970	743
픮	55	751	753	758	669
ᅙ	65	516	515	523	507
CA	75	269	264	273	289
	85	76	73	78	89
	90	8	10	10	

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

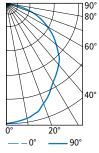
SQR-S33-L67/835-FFG125 Total Luminaire Output: 6743 lumens; 74.7 Watts | Efficacy: 90.3 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	НО	ZONAL LUMENC		
_	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
DISTRIBUTION	0	2526	2526	2526	
5	5	2473	2470	2471	236
農	15	2384	2385	2385	668
S	25	2101	2104	2107	968
	35	1813	1818	1823	1142
8	45	1561	1569	1575	1207
CANDLEPOWER	55	1219	1223	1231	1086
夏	65	837	836	850	822
S	75	437	429	443	469
	85	123	118	127	145
	90	14	17	17	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	1872	28
SU	0 - 40	3014	45
Ē	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 | 80 CRI; 3500K CCT

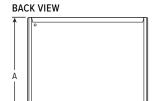


	VERTICAL ANGLE	НО	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	4224	4224	4224	
CANDLEPOWER DISTRIBUTION	5	4135	4130	4132	394
물	15	3986	3988	3988	1130
S	25	3513	3518	3523	1628
곮	35	3032	3039	3048	1910
8	45	2610	2624	2633	2033
굨	55	2038	2044	2058	1836
ᅙ	65	1400	1398	1421	1393
5	75	731	717	740	767
	85	206	197	213	221
	90	23	28	28	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
₹	0 - 30	3153	28
\mathbb{S}	0 - 40	5062	45
핇	0 - 60	8931	79
育	0 - 90	11312	100
	0 - 180	11312	100



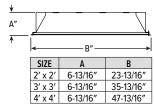
FIXTURE DETAILS



SIZE	Α	В
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"

(3) 7/8" KOs

CROSS SECTION



F CEILING TYPE 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".

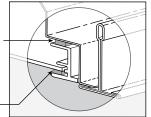
For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

GASKETING DETAILS

DOUBLE GASKETING (DG OPTION)

First gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

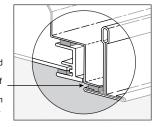
Second gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



TRIPLE GASKETING (TG OPTION)

T-bar

Third gasketing field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.

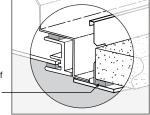


Between bottom perimeter of fixture and

hardpan

ceiling.

Drywall



DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

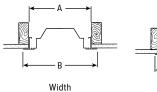
EXAMPLE: DFK - 24 24 W					
SERIES	WIDTH	FINISH			
DFK Drywall kit	24 2'	24 2'	W White		
	36 3'	36 3′			
·	48 4'	48 4'	AMW Anti-microbial white		

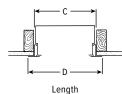
INSTALLATION DIMENSIONS

NOMINAL	ROU	GH-IN	FINISH TRIM SIZE		
SIZE	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)	
2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"	
3' x 3'	36-3/8"	36-3/8"	37-5/16"	37-5/16"	
4' x 4'	48-3/8"	48-3/8"	49-5/16"	49-5/16"	

TYPICAL INSTALLATION

Refer to table for dimensions.







AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

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

Scalable

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

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

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.







Zone Scanner Web App

Commissioning Pro App

Remote Access Bridge

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Ceiling Sensors

Wall Stations

Mobile Apps

Mobile App **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

NETWORK

AVI-RAB-LTE Remote access bridge

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

ADDITIONAL CONTROL/DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power
AWNR/DSR	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver (D4i DALI-2)
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)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

SYSTEM COMPONENTS

Remote Management & Monitoring