



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

ORDERING INFO

6-13/16"

SERIES	CEILING TYPE	SIZE	LUMEN	IS ^[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'	L42 L65 3x3 L67 L150 4x4	4,200lm 6,500lm 6,700lm 15,000lm	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
				20.000lm			

PROJECT: _

OPTIONS [4] SHIELDING

FG125 KSH frostglaze, .125" thick

EM/10W 10-watt emergency battery DG TG

(L__)

СР

47-13/16"

Double gasket ^[6] Triple gasket ^[7] 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**) Chicago plenum (CCEA)

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

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]

NOTES

- 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 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
- 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

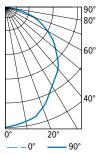
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%
 To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 Use multiplier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

MULTIPLIER TABLE

	COLOR TEMPERATURE				
	CCT	CONVERSION FACTOR			
	2700K	0.97			
=	3000K	0.99			
80 CRI	3500K	1.00			
Θ	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

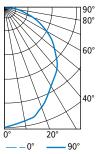
SQR-522-L42/835-FFG125 Total Luminaire Output: 4153 lumens; 46.3 Watts | Efficacy: 89.8 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	НО	ZONAL LUMENC		
	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
8	0	1556	1556	1556	
CANDLEPOWER DISTRIBUTION	5	1523	1521	1522	145
뭂	15	1468	1469	1469	412
ISI	25	1294	1296	1298	596
2	35	1117	1119	1123	703
Š	45	961	967	970	743
픮	55	751	753	758	669
₫	65	516	515	523	507
S	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

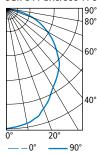
SQR-S33-L67/835-FFG125 Total Luminaire Output: 6743 lumens; 74.7 Watts | Efficacy: 90.3 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	НО	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	2526	2526	2526	
DISTRIBUTION	5	2473	2470	2471	236
農	15	2384	2385	2385	668
<u>S</u>	25	2101	2104	2107	968
	35	1813	1818	1823	1142
8	45	1561	1569	1575	1207
CANDLEPOWER	55	1219	1223	1231	1086
ᅙ	65	837	836	850	822
2	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
핕	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



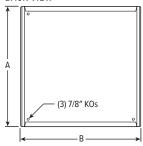
	VERTICAL ANGLE	НО	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	4224	4224	4224	
DISTRIBUTION	5	4135	4130	4132	394
	15	3986	3988	3988	1130
동	25	3513	3518	3523	1628
	35	3032	3039	3048	1910
8	45	2610	2624	2633	2033
CANDLEPOWER	55	2038	2044	2058	1836
夏	65	1400	1398	1421	1393
5	75	731	717	740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

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



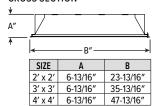
FIXTURE DETAILS

BACK VIEW



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"

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".

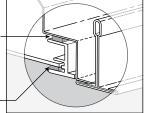
For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

GASKETING DETAILS

DOUBLE GASKETING (DG OPTION)



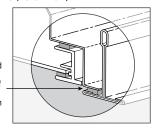
Second gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



TRIPLE GASKETING (TG OPTION)

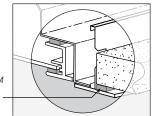
T-bar

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



Drywall

Between bottom perimeter of fixture and hardpan ceiling.



SEE NEXT PAGE FOR CONTROL DETAILS.



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.











Commissioning Pro App

SYSTEM COMPONENTS





Remote Management & Monitoring



Remote Access Bridge





Ceiling Sensors

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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

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 driver