

FEATURES

COMPREHENSIVE FAMILY WITH COORDINATED APERTURES

- Linear downlights, adjustable accent, and wall wash luminaires with coordinating apertures
- Available in 2, 4, 6, 8, 12 cell configurations
- Flanged, flangeless (gypsum), flangeless (millwork) available

5
YEAR
warranty

nLIGHT

BAA

SUPERIOR OPTICS

- Ultra low glare baffles provide exceptional cutoff and glare control
- Baffle available in five low glare finishes
- Great wall wash uniformity, ceiling to floor

EXCEPTIONAL PERFORMANCE

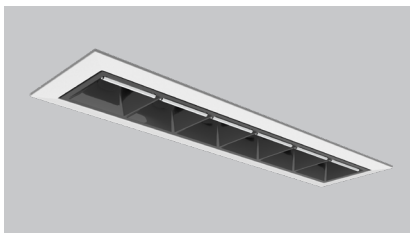
- Up to 1890 lumens delivered!
- Exceptionally consistent color with < 2 SDCM
- Excellent color rendition with 80+ CRI | 90+ CRI Available

PERFORMANCE

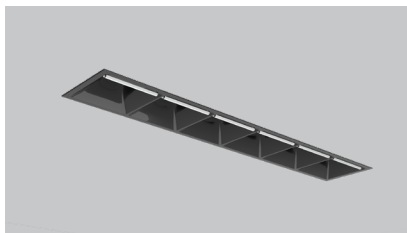
NUMBER OF CELLS	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
2-cell	5	315	64
4-cell	9	630	72
6-cell	12	945	78
8-cell	16	1260	78
12-cell	24	1890	81

Performance shown is at 30K | 80CRI
 Actual performance may differ as a result of end-user environment and application.
 All values are design or typical values, measured under laboratory conditions at 25°C

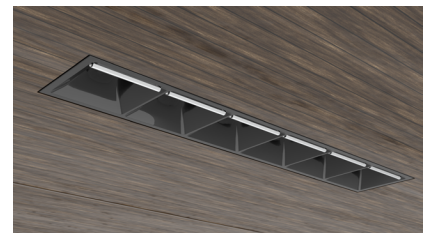
FLANGE STYLES



Flanged



Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)



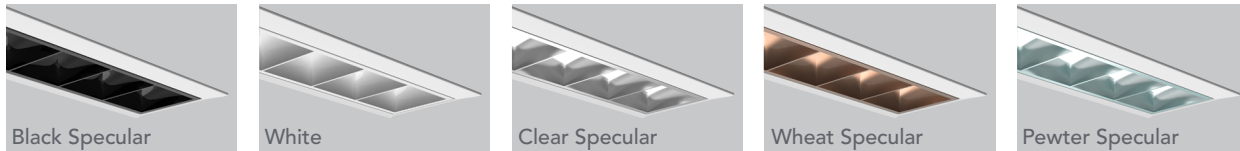
ORDERING INFORMATION

EXAMPLE: LN1SQ WW 04C 27K 90CRI UGZ MVOLT CP ICAT BS FM

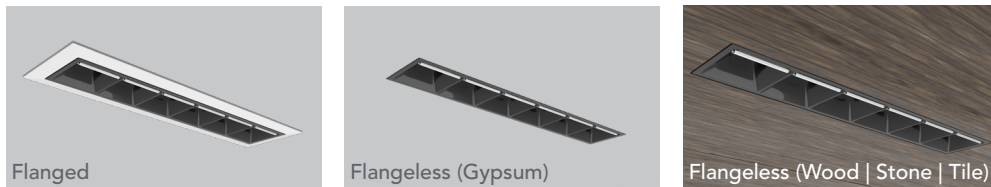
Housing Style	Lumens	CCT	CRI	Driver	Voltage
LN1SQ WW New Construction Wall Wash	02C 2 cell	27K 2700K	80CRI	UGZ Phase Cut & 0-10V 1% min	MVOLT (120-277)
	04C 4 cell	30K 3000K	90CRI ¹		
	06C 6 cell	35K 3500K			
	08C 8 cell	40K 4000K			
	12C 12 cell				

Options	Construction	Baffle Finish	Flange Style/Finish
NLIGHT nLight Dimming pack (must be remote mounted)	CP ICAT Chicago Plenum & IC Rated, Airtight	BS Black Specular	Flanged
		W White	WHSF White Trim Flange
		CS Clear Specular	BLSF Black Trim Flange
		PTS Pewter Specular	Flangeless (Gypsum)
		WTS Wheat Specular	FM Flangeless Gypsum
			Flangeless (Wood Stone Tile)
			SFM Flangeless Millwork, Stone, Tile

BAFFLE FINISHES



FLANGE STYLE



ORDERING NOTES

¹ 90CRI available on 27K and 30K only.

PRODUCT SPECIFICATIONS

EXCEPTIONAL COLOR QUALITY

- <2 SDCM Binning
- 2700K | 3000K | 3500K | 4000K CCT
- 80+ CRI available for all CCTs
- 90+ CRI (>50 R9) available for 2700K & 3000K

SUPERIOR LENSED WALL WASH

- 40° visual cutoff to source and source image
- Ultra low-glare molded baffle results in completely silent ceiling
- Exceptionally uniform wall wash, ceiling to floor

TRIMS

- Durable die cast trim frame
- Low glare baffles available in specular black, white, clear, pewter and wheat finishes.
- Available in Flanged and Flangeless (gypsum & millwork)

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V input and compatible with 0-10V and phase dimming controls
- Dims without perceived flicker to <1% (min dim level depends on dimmer)
- Driver is field replaceable from below the ceiling
- >0.9 Power Factor

NEW CONSTRUCTION MOUNTING

- Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system offering compatibility with wood stud and T-bar construction.
- All fixtures also feature vertically adjustable commercial mounting brackets (butterfly brackets).
- Bar hangers and commercial butterfly brackets can be removed and repositioned 90 degrees.

JUNCTION BOX

- Includes (4) ½" knock-outs.
- Push-in electrical connectors for field connections.
- Suitable for daisy-chain wiring with rigid and flexible supply.

CODES & LABELS

- UL & cUL listed damp location
- Meets energy code Air Leakage requirements per ASTM E283
- ICAT housings rated for direct contact with insulation
- Union made

CEILING THICKNESS

- Accommodates ½" to 1 5/8" ceiling thickness

BUY AMERICAN ACT

- This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.
- Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY & RATED LIFE

- LED is rated for >50,000 hours at 70% lumen maintenance
- 5-year limited warranty. Complete warranty terms located at: http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

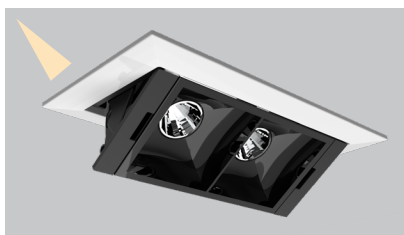
COORDINATED APERTURES

LN1SQ D



DOWNLIGHT

LN1SQ A



ADJUSTABLE

LN1SQ WW

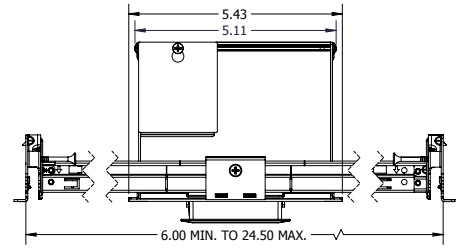
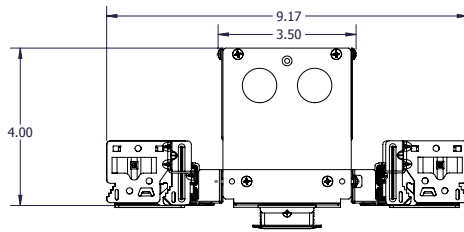


WALL WASH

HOUSING DIMENSIONS

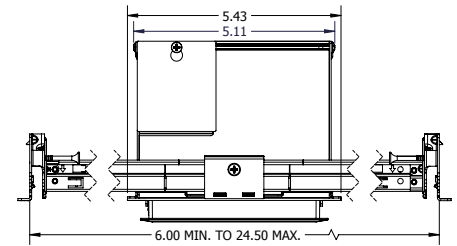
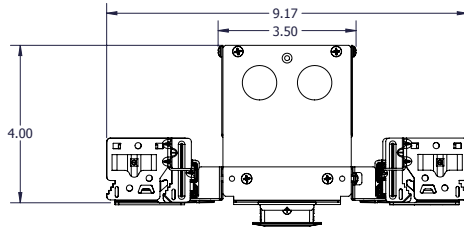
2-cell

Ceiling Cutout:
2.50" x 1.375"



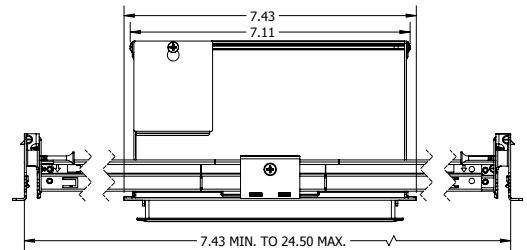
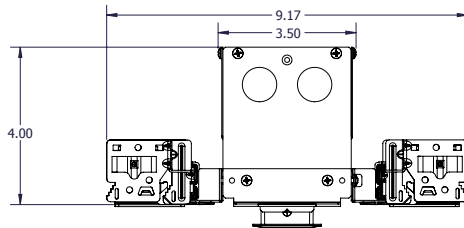
4-cell

Ceiling Cutout:
4.50" x 1.375"



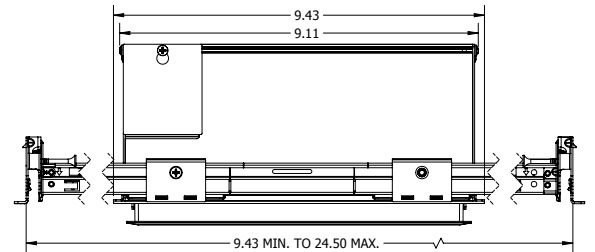
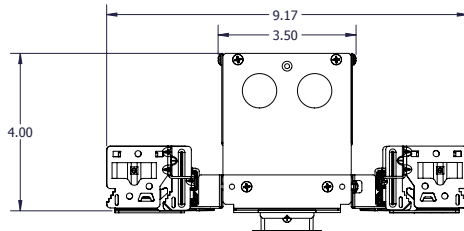
6-cell

Ceiling Cutout:
6.50" x 1.375"



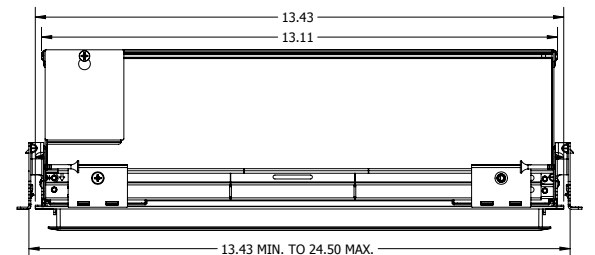
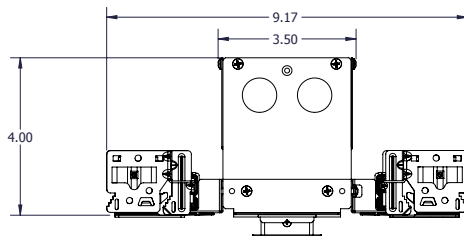
8-cell

Ceiling Cutout:
8.50" x 1.375"



12-cell

Ceiling Cutout:
12.50" x 1.375"

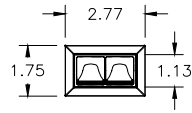


* Ceiling cutouts are for flanged and flangeless gypsum only.
Refer to installation instructions for Flangeless wood, stone, tile (SFM) cutout.

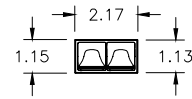
BAFFLE DIMENSIONS

2-cell

Flanged (SF)

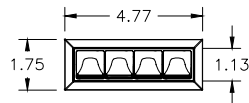


Flangeless (FM)

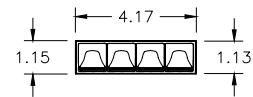


4-cell

Flanged (SF)

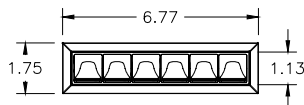


Flangeless (FM)

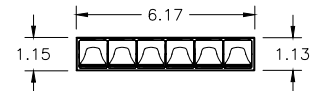


6-cell

Flanged (SF)

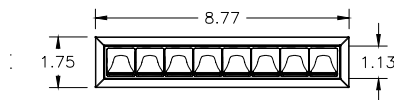


Flangeless (FM)

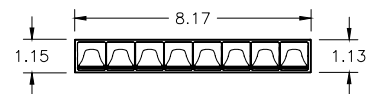


8-cell

Flanged (SF)

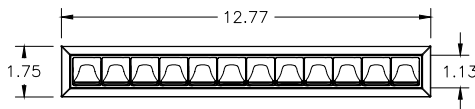


Flangeless (FM)

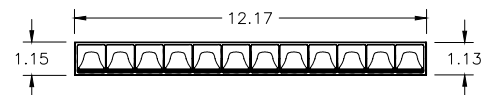


12-cell

Flanged (SF)



Flangeless (FM)



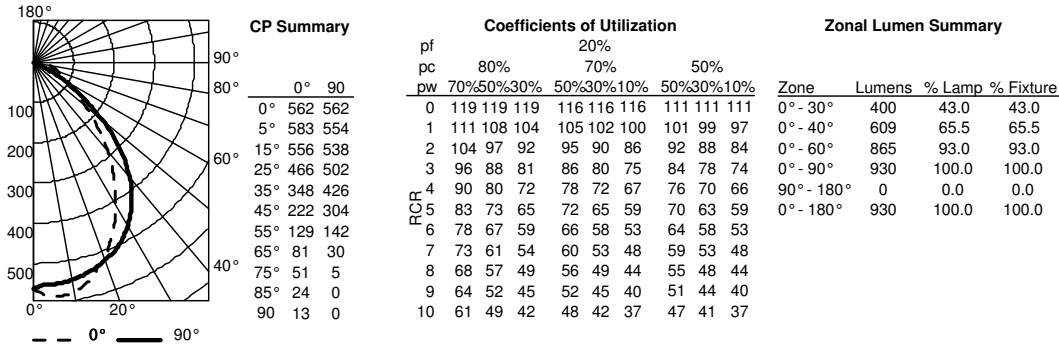
ELECTRICAL SPECIFICATIONS

NUMBER OF CELLS	2-CELL		4-CELL		6-CELL		8-CELL		12-CELL	
Voltage	120	277	120	277	120	277	120	277	120	277
Input Watts	4.9	5.2	8.7	8.8	12.1	12.4	16.1	16.4	23.4	23.3
Input Current	0.04	0.02	0.07	0.03	0.10	0.05	0.13	0.06	0.20	0.09
Frequency	60 50 Hz		60 50 Hz		60 50 Hz		60 50 Hz		60 50 Hz	
Power Factor	0.9		0.9		0.9		0.9		0.9	

PHOTOMETRICS

Tested in accordance to IESNA LM79

LN1SQ WW 06C 30K 80CRI, 3000K LEDs, input watts: 12.2, delivered lumens: 929, LM/W= 76, spacing criterion: 1.11, test no. 19-626-B02



FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall		24"						36"					
Fixture Centers (spacing)		24"		36"		36"		36"		48"			
DISTANCE FROM CEILING	1'	7	8	7	7	5	7	2	2	2	2	2	2
	2'	17	19	17	14	14	14	6	7	6	6	5	6
	3'	19	22	19	16	18	16	8	9	8	7	7	7
	4'	16	18	16	14	15	14	9	10	9	8	8	8
	5'	12	12	12	10	11	10	8	9	8	7	8	7
	6'	8	8	8	7	8	7	7	8	7	6	7	6
	7'	6	6	6	5	6	5	6	6	6	5	6	5
	8'	4	4	4	4	4	4	4	5	4	4	4	4
	9'	3	3	3	3	3	3	3	4	3	3	3	3
	10'	2	2	2	2	2	2	3	3	3	3	3	3

Performance listed at 3000K | 80CRI

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	02C	04C	06C	08C	12C
2700K	0.97	0.80	0.33	0.67	1.0	1.33	2.0
3000K	1.00	0.82					
3500K	1.01	-					
4000K	1.02	-					

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

DIMMER COMPATIBILITY

Phase Dimming and 0-10V Dimming (UGZ)

Incandescent, Magnetic Low Voltage and Electronic Low Voltage Dimming

- Dimming range of 100% down to as low as 1% a minimum load of one fixture
- Dimming range and maximum rated load vary depending on dimmer type and model. See maximum load calculations below to identify max number of luminaires per dimmer.

Incandescent (INC) and Magnetic Low Voltage (MLV)

Example: Fixture Rating = 13W

Dimmer Rating = 600W

Equivalent Incandescent Load (EIL) = 50%

$(600/13W) \times 0.5 = 23$ Fixtures per Dimmer

Electronic Low Voltage (ELV)

Example: Fixture Rating = 13W

Dimmer Rating = 600W

Equivalent Incandescent Load (EIL) = 75%

$(600/13W) \times 0.75 = 34$ Fixtures per Dimmer

INCANDESCENT, MLV, ELV WALL DIMMERS

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	Glyder	GLV*	MLV	4
Lutron	Rotary	D	INC	2
Leviton	SureSlide	6633*	INC	2
Lutron	Diva	DVLV*	MLV	7
Lutron	Diva	DV	INC	2
Lutron	Skylark	SLV*	MLV	5
Lutron	RadioRA2	10ND	INC	2
Lutron	Nova T	NTLV	MLV	4
Lutron	Ceana	CNLV	MLV	7
Leviton	IllumaTech	IPL016-10Z*	INC	3
Leviton	SureSlide	6613*	MLV	2
Lutron	Diva	DVCL	INC	2
Insteon	Keypad Dimmer	2334-232*	INC	2
Insteon	Dimmer Switch	2477D*	INC	2
Control4	Forward Phase Dimmer	C4-FPD 120*	INC	2
Lutron	Nova	NTELV	ELV	7
Lutron	Diva	DVELV*	ELV	2
Lutron	Maestro	MAELV*	ELV	6
Leviton	Vizia	VPE06-1LX*	ELV	3
Leviton	IllumaTech	IPE04*	ELV	4
Lutron	RadioRA2	RRD-6NA*	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	LP	LP-RPM-4U*	INC	6
Lutron	LP	LP-RPM-4A*	PHA	2
Lutron	GrafikEye QS	QSGRJ-3P*	PHA	2
Lutron	GrafikEye QS	PHPM-PA-120*	PHA	2
Lutron	HomeWorks QS	PHPM-PA-120*	PHA	2
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	2
Acuity	nLight nSP5PCD ELV	nSP5PCD*	ELV	2
Insteon	Micro Module Dimmer	2442-222*	INC	2
Control4	8 Ch Dimmer	C4-DIN-8DIM-E*	PHA	2

0-10V DIMMING Compatible with most 0-10V protocol dimmers.

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	Energi Tripak	RMJ-5T-DV-B*	0-10V	1
Wattstopper	DLM	LMRC-211*	0-10V	1
Crestron	GreenLight	DIN-4DIMFLV4*	0-10V	1
Lutron	GrafikEyeQS	GRX-TVI*	0-10V	1
Lutron	GrafikEyeQS	GRX-TVI*	0-10V	1
Leviton	IllumaTech	IP710-DLX	0-10V	1
Lutron	HomeworksQS	GRX-TVM2*	0-10V	1
Lutron	Nova T	NTFTV* +	0-10V	1
Lutron	Nova T	NTSTV-DV*	0-10V	1
Lutron	Nova T	NFTV* +	0-10V	1
Acuity	SensorSwitch	WSX D WH*	0-10V	1
Acuity	nLight	nPP16D*	0-10V	1

*: Aculux recommended dimmers

+: Requires a separate relay module to turn luminaire on/off