

# LINEAR

SERIES



DATE

PROJECT

COMMENTS

CERTIFICATIONS



## SQ2 WALL INDIRECT

FEATURES

### OPTICAL SYSTEM

#### 1. OPTIMAL ASYMMETRICAL DISTRIBUTION

Diffused forward throw optics with high efficiency diffuser properly illuminates the wall, provides even illumination across the ceiling and protects LED's from dust and debris.

#### 2. VERSATILE LIGHT ENGINE

Multiple lumen intensities provide the correct level of illumination within each space.

### ADA COMPLIANT HOUSING

#### 3. SURE-FIT ALIGNMENT

Full-body alignment system adjoins each luminaire section to ensure straighter rows while minimizing the appearance of seams.

### ELECTRICAL

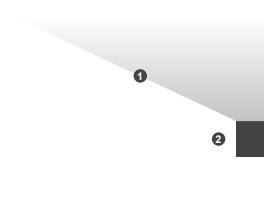
#### 4. EFFICACY

Luminaire efficacy up to 147 lumens per watt helps achieve Best in Class power density performance.

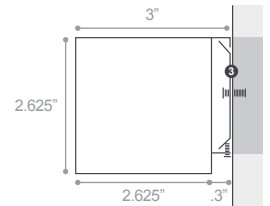
### DIMMING

#### 5. 0-10 VOLT DIMMING TO 1% STANDARD

LIGHT DISTRIBUTION



CROSS-SECTION



SAMPLE PART NUMBER: SQ2-WI-04-MU-30-UNV-WH

ORDERING

SERIES	LENGTH <sup>1</sup>	UPPER OUTPUT		CCT		VOLTAGE		FINISH		ORDERING NOTES 1 Nominal length 2 EM not available with 347V 3 EM Not available with 2' fixtures		
SQ2-WI												
	XX FT	VHU	1250 LM/FT	LU	500 LM/FT	30	3000K	UNV	120-277V		WH	White
	2' Increments EX: 20' FT = 20	HU	1000 LM/FT	VLU	250 LM/FT	35	3500K	347 <sup>2</sup>	347V		BLK	Black
		MU	750 LM/FT	CU	Custom	40	4000K				S	Silver
										GR	CHARCOAL Gray	

#### ORDERING NOTES

- Nominal length
- EM not available with 347V
- EM Not available with 2' fixtures

OPTIONS

CRI	INTEGRATED CONTROLS
BLANK = 80 CRI	DOS Daylight Occupancy Sensor DALI DRIVER STANDARD
C90 <sup>6</sup> 90 CRI	

FOR INDIVIDUALS
EM <sup>3</sup> Emergency Battery
EC Emergency Circuit

FOR LINEAR RUNS <sup>4, 5</sup>		
EM		
EMERGENCY BATTERY PACK	QUANTITY PER RUN <sup>4</sup>	POSITION IN RUN <sup>5</sup>
EC		
EMERGENCY CIRCUIT	QUANTITY PER RUN <sup>4</sup>	POSITION IN RUN <sup>5</sup>

#### EMERGENCY OPTION NOTES

- EM and EC Quantity is not to exceed number of discrete fixture sections in a row.
- EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position Options: S = Starter; J = Joiner; E = Ender  
Ex: SQ2-WI-24-MU-30-UNV-WH-EM2SJ
- Longer lead-times may apply for 90 CRI. Consult factory.

STARTER	JOINER	ENDER
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# SQ2 WALL

## INDIRECT



Manufactured in the USA



Sure-Fit Alignment



Hidden Connect



Vertically Integrated Manufacturing



Extruded Aluminum Housing



Seamless Lens



BAA Compliant



### PHOTOMETRICS & ENERGY CHARTS

#### SQ2-WI-04-HU-35

Total Lumens: 4066

Ratio: 100% Up and 0% Down

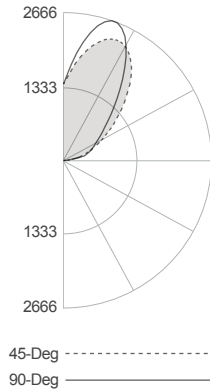
Wattage: 28.1

Efficacy: 145 (Lumens Per Watt)

Fixture Length: Four Feet

#### Zonal Lumen Summary

Zone	% Fixt	% Fixt
0 - 90	1.2	0.0
90 - 120	805.5	19.8
90 - 130	1401.5	34.5
90 - 150	2871.1	70.6
90 - 180	4064.8	100.0
0 - 180	4066.0	100.0



### SPECIFICATIONS

## MECHANICAL

#### Housing Construction:

Extruded aluminum 6063-T5 alloy outer housing with die-formed steel internal components for strength, alignment, and mounting attachment.

#### Alignment/Assembly:

The Sure-Fit alignment system employs a full height joining biscuit, designed to create straighter rows and eliminate light leak at fixture seams. Two nuts are used to draw fixtures together to secure housing-to-housing attachment.

#### Lengths:

The SQ2 is available in individual 2-foot (25.25"), 4-foot (48"), 6-foot (72"), 8-foot (96"), 10-foot (120"), and 12-foot (144") lengths ( $\pm 0.030$ "). Longer fixture rows are available and will be configured per Lumato factory specifications; typical rows are configured with 8-foot fixtures. Our high-quality die-cast end caps are engineered to conceal all fasteners and to retain the sealing gaskets on the inside of the fixture while completing the clean and minimalistic look of this luminaire. Each end cap adds 5/16" to the length of each fixture run.

#### Mounting Method/Hardware:

Wall mounting hardware uses 2 galvanized sheet metal mounting cleats with side-to-side adjustability for final alignment. Position all junction boxes in accordance with submittal drawings and installation instructions.

#### Fixture Finish:

The SQ2 fixture finish is available in White, Black, Silver or Charcoal Gray polyester powder coat finish to ensure durability. Luminaires are available in any RAL color as an option.

#### Integrated Controls:

The SQ2 is available with optional integrated controls. Sensors are conveniently designed to mount in aperture and are located at the power feed end of each fixture. For runs, each fixture section will be supplied with a discrete sensor that will control that specific section

## OPERATION

#### Light Engine:

The SQ2 is available in 3000K, 3500K, and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 80+ with a 90+ CRI option available. Longer lead-times may apply for 90 CRI. Consult factory.

#### Upper Optics:

The upper optics consist of an extruded acrylic lens that provides an asymmetric distribution designed to throw light into the room. This produces a more evenly illuminated wall and ceiling for visual comfort.

#### Electrical:

Class 2 programmable (factory pre-set) premium power supply, 120-277VAC input or 347V. Power factor  $>0.9$  THD  $<15\%$ . Integral Surge Protection to 2KV.

#### Dimming:

The SQ2 comes standard with 0-10V dimming to 1%.

#### Emergency Battery Pack:

Emergency Battery Pack has been engineered to exceed UL minimum safety standards. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack. For 8' VHU, only the first portion of the fixture will be illuminated by the EM battery pack. "Quantity per Run" refers to the number of fixtures in the run that will be supplied with an emergency battery pack. "Position in Run" refers to which fixture in the run that will contain the battery. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24' run needing two emergency battery packs, one in the starter and one in the joiner, would be ordered as EM2SJ. When a joiner is selected, battery packs are always supplied in 8' fixtures before 6' fixtures in that run.

#### Emergency Circuit:

Emergency Circuit fixtures are engineered so that the entire fixture is wired to the emergency circuit. "Quantity per Run" refers to the number of fixtures in the run that are wired to the emergency circuit. "Position in Run" refers to which fixture in the run that will be powered by the Emergency Circuit. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24' run with needing two emergency sections, one in the starter and one in the joiner, would be ordered as EC2SJ. When a joiner is selected, Emergency Circuits are always supplied in 8' fixtures before 6' fixtures in that run.

## GENERAL

#### Warranty:

Ten (10) year limited warranty from date of shipment, covers LED's, driver and luminaire. Optional accessories are covered by their individual Manufacturers' warranties.

#### Lumen Maintenance:

Rated for 85% initial lumen output (L85) at 50,000 hours of operation, operated at 25°C ambient temperatures; per TM-21 Guidelines published by the Illuminated Engineering Society (IES).

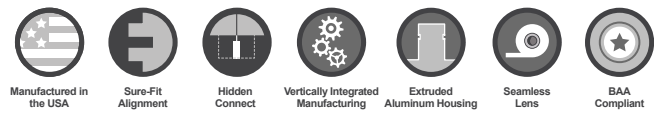
#### Certifications:

All Luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

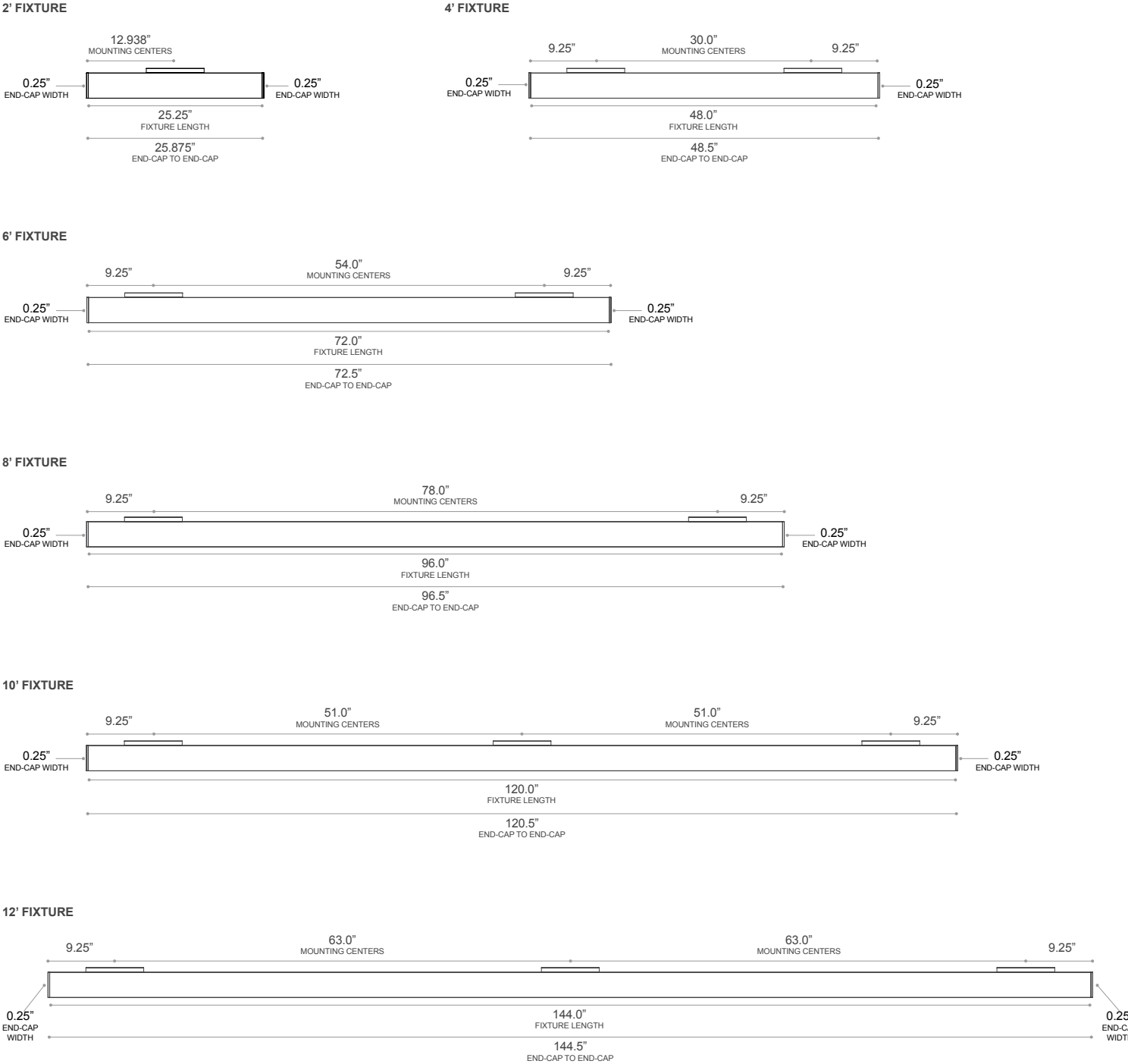
#### Manufactured in the USA:

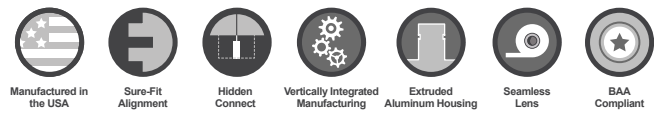
All Lumato luminaires and components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA. All luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

SQ2 WALL  
INDIRECT



FIXTURE ROW LAYOUT: SINGLE UNIT 2' - 4' - 6' - 8' - 10' - 12'

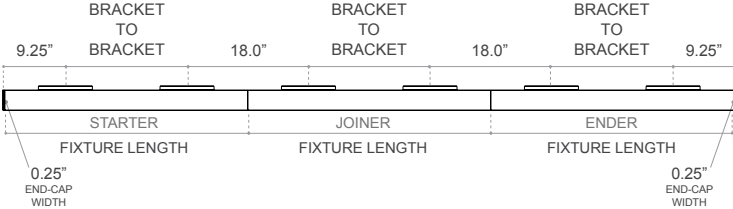




FIXTURE ROW COMPONENTS

RUN LENGTH (FT)	FIXTURE LENGTHS									JOINER KITS
	STARTER	JOINER							ENDER	
	1	2	3	4	5	6	7	8	9	
14	6'	-	-	-	-	-	-	-	8'	1
16	8'	-	-	-	-	-	-	-	8'	1
18	4'	6'	-	-	-	-	-	-	8'	2
20	4'	8'	-	-	-	-	-	-	8'	2
22	6'	8'	-	-	-	-	-	-	8'	2
24	8'	8'	-	-	-	-	-	-	8'	2
26	4'	6'	8'	-	-	-	-	-	8'	3
28	4'	8'	8'	-	-	-	-	-	8'	3
30	6'	8'	8'	-	-	-	-	-	8'	3
32	8'	8'	8'	-	-	-	-	-	8'	3
34	4'	6'	8'	8'	-	-	-	-	8'	4
36	4'	8'	8'	8'	-	-	-	-	8'	4
38	6'	8'	8'	8'	-	-	-	-	8'	4
40	8'	8'	8'	8'	-	-	-	-	8'	4
42	4'	6'	8'	8'	8'	-	-	-	8'	5
44	4'	8'	8'	8'	8'	-	-	-	8'	5
46	6'	8'	8'	8'	8'	-	-	-	8'	5
48	8'	8'	8'	8'	8'	-	-	-	8'	5
50	4'	6'	8'	8'	8'	8'	-	-	8'	6
52	4'	8'	8'	8'	8'	8'	-	-	8'	6
54	6'	8'	8'	8'	8'	8'	-	-	8'	6
56	8'	8'	8'	8'	8'	8'	-	-	8'	6
58	4'	6'	8'	8'	8'	8'	8'	-	8'	7
60	4'	8'	8'	8'	8'	8'	8'	-	8'	7
62	6'	8'	8'	8'	8'	8'	8'	-	8'	7
64	8'	8'	8'	8'	8'	8'	8'	-	8'	7
66	4'	6'	8'	8'	8'	8'	8'	8'	8'	8
68	4'	8'	8'	8'	8'	8'	8'	8'	8'	8
70	6'	8'	8'	8'	8'	8'	8'	8'	8'	8
72	8'	8'	8'	8'	8'	8'	8'	8'	8'	8

	FIXTURE LENGTH	CENTER-TO-CENTER BRACKET SPACING
4'	48.0"	30.0"
6'	72.0"	54.0"
8'	96.0"	78.0"



**NOTE 1**  
2' fixtures use a single mounting bracket centered on the fixture

**NOTE 2**  
10' & 12' fixtures have a third mounting bracket centered on the fixture