



DATE

PROJECT

COMMENTS

CERTIFICATIONS

FEATURES











SQ2 WALL DIRECT

OPTICAL SYSTEM

1. VERSATILE LIGHT ENGINE

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

2. SEAMLESS, HIGH EFFICIENCY LIGHT DIFFUSER

Seamless, roll-in lens eliminates light leaks, minimizes glare, and provides uniform light distribution.

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

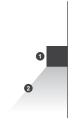
4. EFFICACY

Luminaire efficacy up to 111 lumens per watt helps achieve Best in Class power density performance.

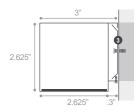
DIMMING

5. 0-10 VOLT DIMMING TO 1% STANDARD

LIGHT DISTRIBUTION



CROSS-SECTION



SAMPLE PART NUMBER: SQ2-W-24-MD-30-UNV-WH

ORDERING

SERIES	LENGTH ¹		OUT	PUT			CCT	VC	DLTAGE	F	FINISH	
SQ2-W												ORDERING NOTES 1 Nominal length.
	XX FT	VHD	1250 LM/FT	LD	500 LM/FT	30	3000K	UNV	120-277V	WH	White	2 EM not available with 347V. 3 EM and sensors are not available with 2' and 3'
	2' Increments EX: 20'FT = 20	HD	1000 LM/FT	VLD	250 LM/FT	35	3500K	347 ²	347V	BLK	Black	fixtures.
		MD	750 LM/FT	CD	Custom	40	4000K			S	Silver	
										GR	CHARCOAL Gray	

OPTIONS

CRI INTEGRATED CONTROLS^{3, 4, 5}

BLANK = 80 CRI DOS Daylight Occupancy Sensor DALI DRIVER STANDARD

C90 90 CRI

I OK INDIVIDUALS								
EM ^{2, 3}	Emergency Battery							
EC	Emergency Circuit							

FOR INDIVIDUALS

FOR LINEAR RUNS ^{6, 7}								
EM								
EMERGENCY BATTERY PACK	QUANTITY PER RUN ⁶	POSITION IN RUN ⁷						
EC								
EMERGENCY CIRCUIT	QUANTITY PER RUN ⁶	POSITION IN RUN ⁷						

OPTIONS NOTES

- 4 Consult factory for component or system not listed.
- 5 For individual fixtures, sensor located at power feed end. For runs, a sensor is installed into each fixture in run, ex. 2 sensors are installed in a 16' run (1 sensor in each 8' fixture).
- 6 EM and EC Quantity is not to exceed number of discrete fixture sections in a row.
- 7 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position Options: 8 = Starter; J = Joiner; E = Ender Ex: SQ2-W-24-MD-30-UNV-WH-EM2SJ

STARTER JOINER ENDER



















PHOTOMETRICS & ENERGY CHARTS

SQ2-W-04-HD-35

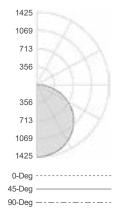
Total Lumens: 3957

Ratio: 0% Up and 100% Down

Wattage: 37.2 Efficacy: 106 LM/W Fixture Length: Four Feet

Zonal Lumen Summary

		_
Zone	Lumens	% Fixt
0 - 30	1084.3	27.4
0 - 40	1765.9	44.6
0 - 60	3099.0	78.3
0 - 90	3956.3	100.0
90 - 180	0.3	0.0
0 - 180	3956.6	100.0



Direct (Lambertian) Light, 3500K

	VHD:1250	HD:1000	MD:750	LD:500	VLD:250
Watts/ft	11.9	9.3	6.9	4.6	2.4
Lumens/ft	1237	989.25	742	498	261
LPW	103.9	106.4	107.5	108.3	111.1

Lumen Adjustment Calculations

LUMEN MULTIPLIERS							
3000K	0.989						
4000K	1.042						

Example: MD, 3000K at 90CRI Light Output: 2968 x 0.989 = 2935 lm Light Output/ft: 742 x 0.989 = 734 lm/ft Efficacy = 734 / 6.9 = 106.3 lm/w

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 (±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 lumination. Each only can add 5/48" to the length of each fixture the 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, Sliver or Charcoal Gray polyester powder coat finish to ensure durability. Luminaires are available in any RAL color

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. Philips EasySense is standard daylight/ occupancy sensor. DALI driver required. If your project requires a component or system not listed, please contact your Lumato lighting representative.

MANUFACTURER	ORDERING CODE	SENSOR	CONNECTION	DRIVER
Philips EasySense	DOS	Daylight/PIR Occupancy	Wireless	DALI (Advanced Xitanium SR, 1% Dimming)

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

Our frosted acrylic roll in lens is designed to maximize efficiency while minimizing glare and eliminating light leaks at fixture joints. Individual fixtures come with lens factory installed while continuous runs will have a separate lens kit installed in the field once the run is hung. This will allow for a continuous/seamless lens up to 100'.

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%. For DOS (Daylight/ Occupancy Sensor) ordering code, DALI driver required. Advance Xitanium SR, 1% dimming to be utilized. Emergency Battery Pack:

Emergency Battery Pack has been engineered to exceed UL minimum safety standards. Standard battery is CEC Listed. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack. For 8' VHD, portion of the fixture will be illuminated by the EM Battery Pack. For 8' VHD, 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 EM2SL When a joiner is colorted by the packet of the starter and one in the 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 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'

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.

4 week lead-time for orders up to 1000 linear feet.

Lead-time for orders greater than 1000 linear feet will be determined at time of order.

SQ2 WALL



















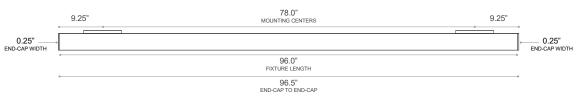
FIXTURE ROW LAYOUT: SINGLE UNIT 2' - 4' - 6' - 8' - 10' - 12'

4' FIXTURE 2' FIXTURE 12.938" MOUNTING CENTERS 30.0" MOUNTING CENTERS 9.25" 9.25" 0.25" — END-CAP WIDTH ____ 0.25" END-CAP WIDTH ___ 0.25" END-CAP WIDTH 0.25" — END-CAP WIDTH 25.25" FIXTURE LENGTH 48.0" FIXTURE LENGTH 25.875" END-CAP TO END-CAP 48.5" END-CAP TO END-CAP

6' FIXTURE



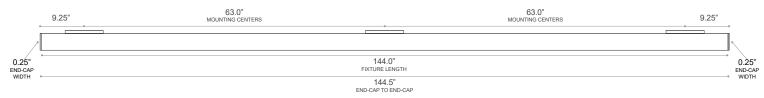
8' FIXTURE



10' FIXTURE



12' FIXTURE



SQ2 WALL DIRECT

















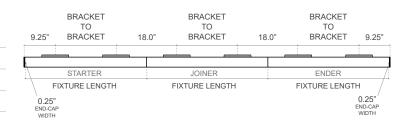
Seamles Lens



FIXTURE ROW COMPONENTS

	FIXTURE LENGTHS LENGTH (FT) STARTER JOINER ENDER									
RUN LENGTH (FT)	STARTER				ENDER	JOINER KITS				
	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