

OPTICAL SYSTEM

1. VERSATILE LIGHT ENGINE

Multiple Lumen Intensities Provide the Correct Level of Illumination Within Each Space

2. HIGH EFFICIENCY LIGHT DIFFUSER

High Efficiency Diffuser Designed to Minimize Glare and Provide Uniform Light Distribution

3. MULTIPLE DOWN LIGHT DISTRIBUTION OPTIONS

Asymmetrical Wall Wash Standard; Symmetrical Down Light and Asymmetrical Room Wash also Available

ADA COMPLIANT HOUSING

4. HIDDEN CONNECT

Concealed Connection Point Between the Wall and Fixture Eliminates the Visibility of Hardware

5. SURE-FIT ALIGNMENT

4-Point Alignment System Adjoining Each Luminaire Section to Ensure Straighter Rows While Minimizing the Appearance of Seams

ELECTRICAL

6. EFFICACY

Luminaire Efficiency Ranging from 82.8 to 83.4 Lumens per Watt Helps Achieve Best in Class Power Density Performance

DIMMING

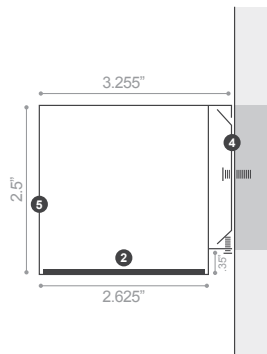
7. 0-10 VOLT DIMMING TO 1% STANDARD

See Options Below for Additional Dimming Options

LIGHT DISTRIBUTION



CROSS-SECTION



SERIES	LENGTH ¹	OUTPUT ²	RATIO ³ U/D	VOLTAGE	CCT	MOUNTING	COLOR	DIRECT OPTICS	ORDERING DIMMING
SQ 2			01			WM			
	XXX FT 2 INCREMENTS EX: 4' = 004	H2 ⁵ 1800 LM/FT H1 ⁵ 1500 LM/FT H ⁵ 1200 LM/FT M 900 LM/FT L 600 LM/FT C ⁷ Custom	01 0/100	12 120V 27 277V	30 3000K 35 3500K 40 4000K	WM WALL MOUNT	W WHITE S SILVER G CHARCOAL GREY B BLACK	WW ASYMMETRICAL WALL WASH RW ASYMMETRICAL ROOM WASH SD SYMMETRICAL DOWN LIGHT	0-10 1% 0-10V DIMMING DALI DALI DIMMING ND NO DIMMING

¹Nominal length

²Nominal lumens per foot

³Ratio defined as percentage of light illuminated upwards versus percentage of light illuminated downwards

⁴80 CRI standard

⁵High Output Options H, H1 & H2 only available with Symmetrical Down Light (SD) Option

⁶Not available in H1 & H2 outputs

⁷Contact factory for available configurations and additional lead times

⁸Standard EC Illuminates Entire 8' Fixture Section. For Custom Options Please Consult Factory

OPTIONS

EM⁸ EMERGENCY BATTERY PACK

EC⁸ EMERGENCY CIRCUIT

NC NIGHT LIGHT CIRCUIT

GTD GENERATOR TRANS. DEVICE

SS-A/B SEPARATE SWITCHING LINEAR ZONES

SC-A/B SEPARATE CIRCUIT LINEAR ZONES

DS DAYLIGHT SENSOR

OS OCCUPANCY SENSOR

DOS DAYLIGHT & OCCUPANCY SENSOR

FS FUSING

C90⁴ 90 CRI



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 four-point alignment and attachment method, designed to create straighter rows and minimize seams between sections (field assembled). Two alignment tabs ensure the outer extruded aluminum rails are aligned, while two draw-screws secure housing-to-housing attachment.

Lengths:

The SQ2 is available in individual 2-foot (24"), 4-foot (48"), 6-foot (72"), 8-foot (96"), 10-foot (120") and 12-foot (144") lengths. Longer fixture rows are available and will be configured per Lumato factory specifications; typical rows are configured with 8-foot fixtures. Each end cap adds .0625" to the length of each fixture run. End Caps: End caps are fabricated from 16-gauge steel and finished to match housing. End caps are installed at factory with no exposed fasteners to ensure minimal visible seam.

Mounting Method/Hardware:

The Hidden-Connect design recesses or hides all attachment hardware. Standard mounting hardware includes a galvanized wall cleat with side to side adjusting for final alignment. Position all Junction Boxes in Accordance with Final Manufacturer Submittal Drawings. Feed Point is on the Left Hand Mounting Point for all Products Longer than 2'; All 2' Products have a Center Feed Point.

Exterior Finish:

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

OPERATION

Light Engine:

The SQ2 is available in 3000K, 3500K & 4000K CCT all within a 2.5-Step MacAdam Ellipse and has a standard CRI of 80+ with a 90+ CRI option available.

Optics:

The edge lit PMMA acrylic light guide ensures high efficiency light output, in a minimal form factor. A secondary acrylic diffuser is added to create a clean, evenly illuminated lower surface with minimal glare.

Electrical:

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

Dimming:

The SQ2 comes standard with 0-10V dimming. The 0-10V control allows dimming down to 1%. DALI dimming is available as an option and allows for dimming down to 5%.

Optional Controls:

The SQ2 is available with optional integrated daylight and occupancy sensors. Sensors extend the length of the luminaire and are located at the end of a row, near the power cord. Contact factory for custom locations.

GENERAL

Warranty:

Five (5) 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 25C ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

Certification

All Luminaires are UL and cUL Listed, approved for Dry/Damp locations

Angeled Connectors

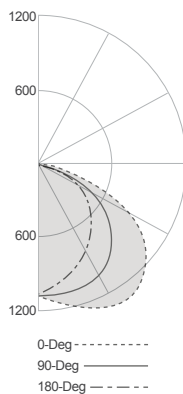
Angled luminaire connectors are available, consult factory for drawings and specifications

Made 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

SQ2-4-M-01-12-30-WM-X

Total Lumens: 3569
Ratio: 0% Up and 100% Down
Asymmetrical Wall Wash
Wattage: 43.1
Efficacy: 82.8 (Lumens Per Watt)
Report Number: ITL86864P
Fixture Length: Four Feet

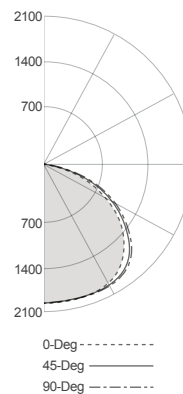


Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	886	24.8
0 - 40	1512	42.3
0 - 60	2819	78.9
0 - 90	3569	100.0
90 - 180	0	0
0 - 180	3569	100.0

SQ2-4-H2-01-12-30-WM-X

Total Lumens: 6900
Ratio: 0% Up and 100% Down
Wattage: 82.7
Efficacy: 83.4 (Lumens Per Watt)
Report Number: ITL86879
Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1670	25.6
0 - 40	2863	43.4
0 - 60	5405	79.1
0 - 90	6900	100.0
90 - 180	0	0.0
0 - 180	6900	100.0

PHOTOMETRICS

ENERGY CONSUMPTION

Watts Per Linear Foot - SD

	H2:1800	H1:1500	H:1200	M:900	L:600
0/100	20.68	17.16	13.72	10.30	6.80

Watts Per Linear Foot - WW-RW

	M:900	L:600
0/100	10.80	7.20