

### OPTICAL SYSTEM

#### 1. OPTIMAL INDIRECT BATWING DISTRIBUTION

135 Degree Ultra-Wide Batwing Distribution Provides Even Illumination Across a Ceiling While Allowing for Maximum Spacing Between Fixtures

#### 2. VERSATILE LIGHT ENGINE

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

### HOUSING

#### 3. HIDDEN CONNECT

Recessed Connection Point Between Cable and Fixture Eliminates the Visibility of Hardware

#### 4. SURE-FIT ALIGNMENT

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

### ELECTRICAL

#### 5. EFFICACY

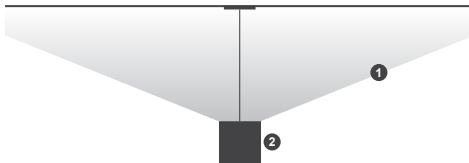
Luminaire Efficacy of 104.6 Lumens per Watt Helps Achieve Best in Class Power Density Performance

### DIMMING

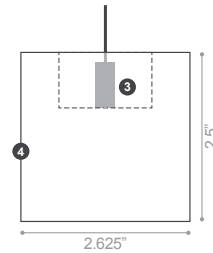
#### 6. 0-10 VOLT DIMMING STANDARD

See Options Below for Additional Dimming Options

LIGHT DISTRIBUTION



CROSS-SECTION



SERIES	LENGTH <sup>1</sup>	OUTPUT <sup>2</sup>	RATIO <sup>3</sup> U/D	VOLTAGE	CCT	MOUNTING	COLOR	DIMMING	
<b>SQ 2</b>			<b>10</b>						
	<b>XXX</b> FT <small>2' INCREMENTS EX: 4' = 004</small>	<b>H</b> 1200 LM/FT <b>M</b> 900 LM/FT <b>L</b> 600 LM/FT <b>C</b> <sup>7</sup> Custom	<b>10</b> 100/0	<b>12</b> 120V <b>27</b> 277V	<b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>AIRCRAFT CABLE</b> <small>36" CABLE STANDARD</small> <b>T1</b> 1" T GRID <b>T9</b> 9/16" T GRID <b>SC</b> <small>SCREW SLOT GRID</small> <b>HC</b> HARD CEILING	<b>RIGID STEM</b> <sup>6</sup> <small>24" STEM STANDARD</small> <b>RS</b> RIGID STEM <b>RSS</b> <small>RIGID SWIVEL STEM</small>	<b>W</b> WHITE <b>S</b> SILVER <b>G</b> <small>CHARCOAL GREY</small>	<b>0-10</b> 0-10V DIMMING <b>DALI</b> DALI DIMMING <b>ND</b> NO DIMMING

OPTIONS

<sup>1</sup>Nominal length

<sup>2</sup>Nominal lumens per foot

<sup>3</sup>Ratio defined as percentage of light illuminated upwards versus percentage of light illuminated downwards

<sup>4</sup>80 CRI standard

<sup>5</sup>For cable lengths longer than 120' please consult factory

<sup>6</sup>All non-aircraft cable mounting requires adder-fee

<sup>7</sup>Contact factory for available configurations and additional lead times

**EC** EMERGENCY CIRCUIT

**NC** NIGHT LIGHT CIRCUIT

**GTD** GENERATOR TRANS.  
DEVICE

**DS** DAYLIGHT SENSOR

**OS** OCCUPANCY SENSOR

**DOS** DUAL DAYLIGHT &  
OCCUPANCY SENSOR

**FS** FUSING

**C90**<sup>4</sup> 90 CRI

**CB48** 48" CABLES

**CB72** 72" CABLES

**CB120**<sup>5</sup> 120" CABLES

**RS36** 36" RIGID STEM

**RS48** 48" RIGID STEM

**RS72** 72" RIGID STEM

**RSS36** 36" RIGID  
SWIVEL STEM

**RSS48** 48" RIGID  
SWIVEL STEM

**RSS72** 72" RIGID  
SWIVEL STEM



### 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 six-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 four 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 all attachment hardware (hanging cable and power cord) below the top plane of the housing to enable a sleek, clean finished look. Standard hanging hardware includes 1/16" diameter, galvanized steel aircraft cable with adjustable and lockable nickel-plated cable grippers and a white 18/5 S.O. power cord. The standard hardware includes a 48" power cord and 42" aircraft cables to accommodate a 36" mounting distance from the ceiling. Longer hanging cables and power cords available as an option. Ceiling canopy provided. All Lumato suspension hardware is tested and listed to UL1598 requirements for loading/fixture support.

#### Exterior Finish:

The SQ2 is available in White, 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 upper optics consist of an injection molded acrylic lens that provides a 135°, ultra-wide batwing distribution to produce a more evenly illuminated ceiling and wider spacing of luminaires.

#### 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 10% (Dimming down to 1% is also an option; please consult factory). DALI dimming is available as an option and allows for dimming down to 1%.

#### 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 in "L", "T", and "X" configurations to achieve a variety of shapes. 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

### PHOTOMETRICS

#### SQ2-4-H-10-12-30-XX-X

Total Lumens: 4768

Ratio: 100% Up and 0% Down

Wattage: 45.6

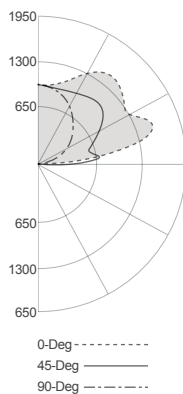
Efficacy: 104.6 (Lumens Per Watt)

Report Number: ITL83379

Fixture Length: Four Feet

#### Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 90	0	0
90 - 120	1693	35.5
90 - 130	2512	52.7
90 - 150	3942	82.7
90 - 180	4768	100.0
0 - 180	4768	100.0



### ENERGY CONSUMPTION

#### Watts Per Linear Foot

	H:1200	M:900	L:600
100/0	11.40	8.55	5.70