

OPTICAL SYSTEM

1. OPTIMAL 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 Along With Various Up/Down Light Options to Provide the Correct Level of Illumination Within Each Space

3. HIGH EFFICIENCY LIGHT DIFFUSER

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

HOUSING

4. HIDDEN CONNECT

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

5. SURE-FIT ALIGNMENT

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

ELECTRICAL

6. EFFICACY

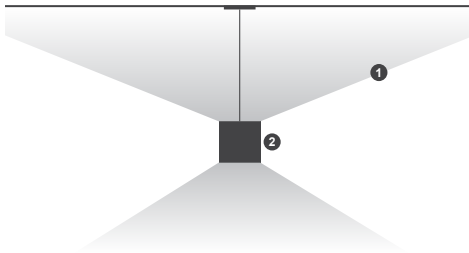
Luminaire Efficacy Ranging from 86.9 to 102.5 Lumens per Watt Helps Achieve Best in Class Power Density Performance

DIMMING

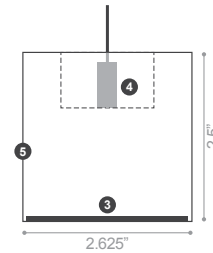
7. 0-10 VOLT DIMMING TO 1% STANDARD

See Options Below for Additional Dimming Options

LIGHT DISTRIBUTION



CROSS-SECTION



SERIES	LENGTH ¹	OUTPUT ²	RATIO ³ U/D	VOLTAGE	CCT	MOUNTING	COLOR	DIMMING
SQ 2								
	XXX FT 2' INCREMENTS EX: 4' = 004	H 1200 LM/FT M 900 LM/FT L 600 LM/FT C ⁸ Custom	91 90/10 72 75/25 64 60/40 55 50/50 46 40/60 27 25/75 C ⁸ Custom	12 120V 27 277V	30 3000K 35 3500K 40 4000K	AIRCRAFT CABLE 36" CABLE STANDARD T1 1" T GRID T9 9/16" T GRID SC SCREW SLOT GRID HC HARD CEILING	RIGID STEM ⁶ 24" STEM STANDARD RS RIGID STEM RSS RIGID SWIVEL STEM G CHARCOAL GREY B BLACK	0-10 1% 0-10V DIMMING 0-10 IND ⁷ INDEPENDENT U/D CONTROL DALI DALI DIMMING DALI IND ⁷ INDEPENDENT U/D CONTROL ND NO DIMMING
OPTIONS								
						SS-U/D SEPARATE SWITCHING UPWARD/DOWNWARD SS-A/B SEPARATE SWITCHING LINEAR ZONES SC-U/D SEPARATE CIRCUIT UPWARD/DOWNWARD SC-A/B SEPARATE CIRCUIT LINEAR ZONES EM EMERGENCY BATTERY PACK 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 ⁹ 90 CRI	CB48 48" CABLES CB72 72" CABLES CB120 ⁷ 120" 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 BC BLACK CORD BLACK CANOPY

¹Nominal length

²Nominal lumens per foot

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

⁴80 CRI standard

⁵For cable lengths longer than 120" please consult factory

⁶All non-aircraft cable mounting requires adder-fee

⁷Does not include independent switching

⁸Contact factory for available configurations and additional lead times

⁹Standard EC illuminates entire 8' fixture section. For custom options please consult factory



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") and 10-foot (120") 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, 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.

Directionality:

The SQ2 is available in six different varieties of up/down lumen output ratios. Upward and downward light direction specified by percentages as follows (up/down): 90/10, 75/25, 60/40, 50/50, 40/60 & 25/75.

Lower 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.

Upper 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 1%. DALI dimming is available as an option and allows for dimming down to 5%. All protocols are available in synchronizing or independent up/down dimming control.

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

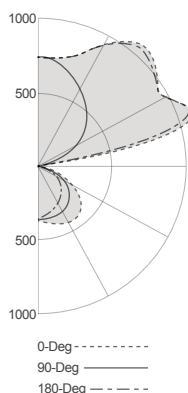
Angled luminaire connectors are available in "L", "T", and "X" configurations to achieve a variety of shapes. Consult factory for drawings and specifications

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

SQ2-4-H-72-12-30-XX-X

Total Lumens: 4736
Ratio: 75% Up and 25% Down
Wattage: 47.8
Efficacy: 99.1 (Lumens Per Watt)
Report Number: ITL83377
Fixture Length: Four Feet

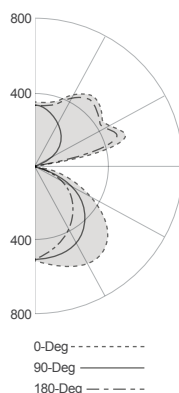


Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	298	6.3
0 - 40	508	10.7
0 - 60	945	20.0
0 - 90	1198	25.3
90 - 120	1245	26.3
90 - 130	1854	39.1
90 - 150	2920	61.7
90 - 180	3538	74.7
0 - 180	4736	100.0

SQ2-4-M-55-12-30-XX-X

Total Lumens: 3531
Ratio: 50% Up and 50% Down
Wattage: 37.7
Efficacy: 93.7 (Lumens Per Watt)
Report Number: ITL83375R
Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	445	12.6
0 - 40	759	21.5
0 - 60	1414	40.1
0 - 90	1794	50.8
90 - 120	616	17.5
90 - 130	914	25.9
90 - 150	1436	40.7
90 - 180	1737	49.2
0 - 180	3531	100.0

PHOTOMETRICS

ENERGY CONSUMPTION

Watts Per Linear Foot

	H:1200	M:900	L:600
90/10	11.67	8.75	5.84
75/25	11.95	8.96	5.97
60/40	12.20	9.15	6.1
50/50	12.55	9.41	6.27
40/60	13.00	9.75	6.5
25/75	13.55	10.16	6.77