

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 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

4. MULTIPLE DOWN LIGHT DISTRIBUTION OPTIONS

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

ADA COMPLIANT HOUSING

5. HIDDEN CONNECT

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

6. SURE-FIT ALIGNMENT

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

ELECTRICAL

7. EFFICACY

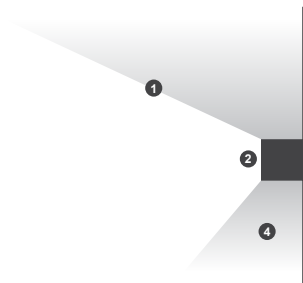
Luminaire Efficiency Ranging from 86.6 to 99.5 Lumens per Watt Helps Achieve Best in Class Power Density Performance

DIMMING

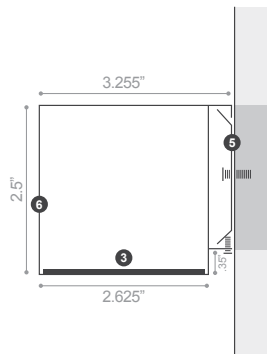
8. 0-10 VOLT DIMMING TO 1% STANDARD

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						WM			
	XXX FT 2 INCREMENTS EX: 4' = 004	H 1200 LM/FT	91 90/10	12 120V	30 3000K	WM WALL MOUNT	W WHITE	WW ASYMMETRICAL WALL WASH	0-10 1% 0-10V DIMMING
		M 900 LM/FT	72 75/25	27 277V	35 3500K		S SILVER	RW ASYMMETRICAL ROOM WASH	0-10 IND ⁵ INDEPENDENT U/D CONTROL
		L 600 LM/FT	64 60/40		40 4000K		G CHARCOAL GREY	SD SYMMETRICAL DOWN LIGHT	DALI DALI DIMMING
		C ⁶ Custom	55 50/50				B BLACK		DALI IND ⁵ INDEPENDENT U/D CONTROL
			46 40/60						ND NO DIMMING
			27 25/75						
			C ⁶ Custom						

¹Nominal length

²Nominal lumens per foot

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

⁴80 CRI standard

⁵Does not Include independent switching

⁶Contact factory for available configurations and additional lead times

⁷Standard EC Illuminates Entire 8' Fixture Section. For Custom Options Please Consult Factory

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

EC⁷ EMERGENCY CIRCUIT

NC NIGHT LIGHT CIRCUIT

GTD GENERATOR TRANS. DEVICE

DS DAYLIGHT SENSOR

OS OCCUPANCY SENSOR

DOS DAYLIGHT & OCCUPANCY SENSOR

FS FUSING

C90⁴ 90 CRI

OPTIONS



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.

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:

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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

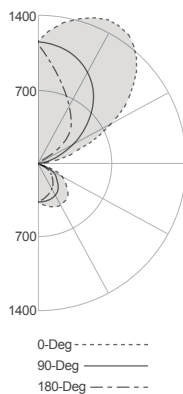
Angled luminaire connectors are available, consult factory for drawings and specifications

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-WM-X

Total Lumens: 4624
Ratio: 75% Up and 25% Down
Asymmetrical Wall Wash
Wattage: 47.7
Efficacy: 96.9 (Lumens Per Watt)
Report Number: ITL86860
Fixture Length: Four Feet

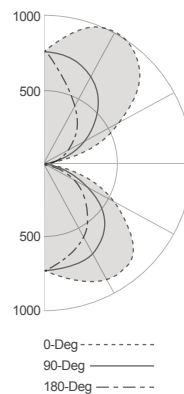


Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	307	6.6
0 - 40	523	11.3
0 - 60	975	21.1
0 - 90	1235	26.7
90 - 120	676	14.6
90 - 130	1234	26.7
90 - 150	2473	53.5
90 - 180	3389	73.3
0 - 180	4624	100.0

SQ2-4-H-55-12-30-WM-X

Total Lumens: 4682
Ratio: 50% Up and 50% Down
Asymmetrical Wall Wash
Wattage: 51.2
Efficacy: 91.4 (Lumens Per Watt)
Report Number: ITL86862
Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	599	12.8
0 - 40	1022	21.8
0 - 60	1905	40.7
0 - 90	2413	51.5
90 - 120	452	9.7
90 - 130	826	17.6
90 - 150	1656	35.4
90 - 180	2269	48.5
0 - 180	4682	100.0

PHOTOMETRICS

ENERGY CONSUMPTION

Watts Per Linear Foot

	H:1200	M:900	L:600
90/10	11.43	8.57	5.84
75/25	11.93	8.95	5.97
60/40	12.40	9.30	6.1
50/50	12.80	9.60	6.27
40/60	13.18	9.89	6.5
25/75	13.68	10.26	6.77