

S3 - SUSPENDED DIRECT

CERTIFICATIONS

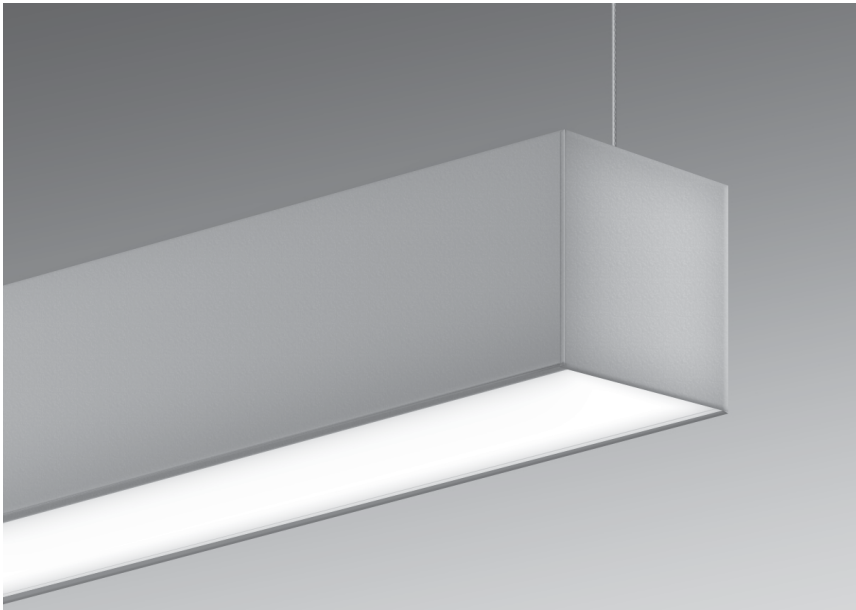


lighting factsSM
A Program of the U.S. DOE

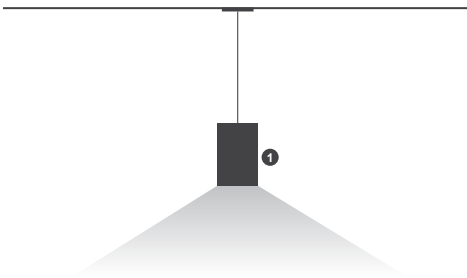
DATE

PROJECT

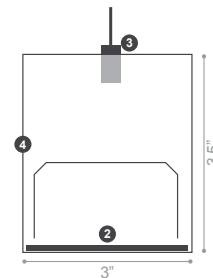
COMMENTS



LIGHT DISTRIBUTION



CROSS-SECTION



FEATURES

OPTICAL SYSTEM

1. VERSATILE LIGHT ENGINE

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

2. EVENLY ILLUMINATED LOWER LENS

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

HOUSING

3. HIDDEN CONNECT

Semi-Recessed Connection Point Between Cable and Fixture Reduces the Visibility of Hardware

4. SURE-FIT ALIGNMENT

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

ELECTRICAL

5. OPTIONAL INTEGRAL EMERGENCY BATTERY PACK

UL Listed 924 Emergency System has been Engineered to Exceed UL Minimum Safety Standards.

6. 0-10 VOLT DIMMING TO 1% STANDARD

See Options Below for Additional Dimming Options

ORDERING

SERIES	LENGTH ¹	OUTPUT ²	RATIO ³ U/D	VOLTAGE	CCT	MOUNTING	COLOR	DIRECT OPTICS	DIMMING
S3			01					SD	
	XXX FT 1" INCREMENTS EX: 4' = 004	H2 1200 LM/FT H1 1000 LM/FT H 800 LM/FT M 600 LM/FT L 400 LM/FT C ⁷ Custom	01 0/100	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	W WHITE S SILVER G CHARCOAL GREY B BLACK	SD SYMMETRICAL DOWN LIGHT	0-10 1% 0-10V DIMMING DALI DALI DIMMING ND NO DIMMING
						EM EMERGENCY BATTERY PACK EC ⁸ 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 DUAL DAYLIGHT & OCCUPANCY SENSOR FS FUSING C90 ⁹ 90 CRI	CB48 48" CABLES CB72 72" CABLES CB120 ⁵ 120" 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
							OPTIONS		

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

⁷Contact factory for available configurations and additional lead times

⁸Standard 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). Four alignment tabs ensure the outer extruded aluminum rails are aligned, while two draw-screws secure housing-to-housing attachment.

Lengths:

The S3 is available in a minimum 2-foot (24") length with additional 1-foot (12") increments available. Longer fixture rows are available and will be configured per Lumato factory specifications; typical rows are configured with 8-foot fixtures.

Mounting Method/Hardware:

The Hidden-Connect design semi-recesses attachment hardware (hanging cable and power cord) below the top plane of the housing to minimize the appearance of the hardware. 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 S3 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 S3 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 back lit extruded acrylic lens ensures high efficiency light output, in a minimal form factor for 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 S3 comes standard with 0-10V dimming and DALI dimming is available as an option. The 0-10V control allows dimming down to 1% while DALI also allows for dimming to 5%.

Optional Controls:

The S3 is available with optional integrated daylight and occupancy sensors. Sensors may extend the length of the luminaire and are located at the end of a row, near the power feed. 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

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.

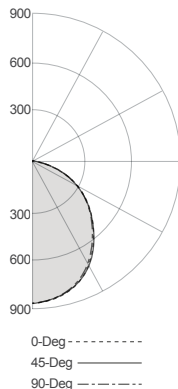
PHOTOMETRICS

S3-4-M-01-12-30-SM-X

Total Lumens: 2,321
Ratio: 0% Up and 100% Down
Wattage: 22.50
Efficacy: 103.2 (Lumens Per Watt)
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	666	28.7
0 - 40	1072	46.2
0 - 60	1842	79.4
0 - 90	2321	100.0
90 - 180	0	0.0
0 - 180	2321	100.0



Coefficients Of Utilization

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	
1	109	104	100	96	106	102	98	94	97	94	91	
2	99	91	84	78	96	89	83	77	85	80	76	
3	90	80	72	65	88	78	71	65	75	69	63	
4	83	71	62	55	80	70	61	55	67	60	54	
5	76	63	54	48	74	62	54	48	60	53	47	
6	70	57	48	42	69	56	48	42	54	47	41	
7	65	52	43	37	64	51	43	37	50	42	37	
8	61	47	39	33	59	47	39	33	45	38	33	
9	57	44	35	30	56	43	35	30	42	35	30	
10	53	40	32	27	52	40	32	27	39	32	27	

ENERGY CONSUMPTION

Watts Per Linear Foot

	H2:1200	H1:1000	H:800	M:600	L:400
0/100	12.53	9.575	7.83	5.63	4.03