

LINEAR SERIES



DATE PROJECT

COMMENTS

CERTIFICATIONS



5SID SUSPENDED INDIRECT / DIRECT

AN EXTENSION OF OUR 5-INCH LINEAR FAMILY SERIES

FEATURES

OPTICAL SYSTEM

- 1. OPTIMAL BATWING DISTRIBUTION**
135° 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. EVENLY ILLUMINATED DIRECT LENS**
High efficiency diffuser designed to minimize glare and provide uniform light distribution.

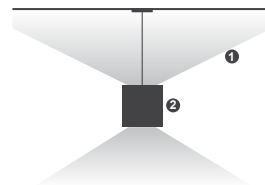
5. SURE-FIT ALIGNMENT

4-Point alignment system adjoining each luminaire section to ensure straighter rows while minimizing the appearance of seams.

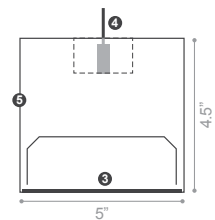
ELECTRICAL

- 6. OPTIONAL INTEGRAL EMERGENCY BATTERY PACK**
UL Listed 924 emergency system has been engineered to exceed UL minimum safety standards.
- 7. 0-10 VOLT DIMMING STANDARD**
120/277VAC 0-10V dimming to 1% standard.

LIGHT DISTRIBUTION



CROSS-SECTION



HOUSING

- 4. HIDDEN CONNECT**
Recessed connection point between cable and fixture eliminates the visibility of hardware.

ORDERING

SERIES	LENGTH	UPPER OUTPUT			DIRECT OUTPUT			CCT	VOLTAGE	MOUNTING	FINISH						
5SID	XXX FT	VHU	1250 LM/FT	LU	500 LM/FT	VHD	1250 LM/FT	LD	500 LM/FT	30	3000K UNV	120-277V	T1	1" T-Grid	WH	White	
	2' Increments EX: 20' = 20	HU	1000 LM/FT	VLU	250 LM/FT	HD	1000 LM/FT	VLD	250 LM/FT	35	3500K	347'	347V	T9	9/16" T-Grid	BLK	Black
		MU	750 LM/FT	CU	Custom	MD	750 LM/FT	CD	Custom	40	4000K			SC	Screw Slot Grid	S	Silver
														HC	Hard Ceiling	GR	CHARCOAL Gray
														JB	Junction Box		

ORDERING NOTES

- 1 EM not available with 347V.
2 EM not available with 2' and 4' fixtures.

OPTIONS

CRI	SUSPENSION	OPTICAL	INTEGRATED CONTROLS	CIRCUITING
BLANK = 80 CRI	BLANK = 48" CABLE	CB144 144" Cables	BLANK = LAMBERTIAN	OS Occupancy Sensor
C90 90 CRI	CB96 96" Cables	BC Black Canopy & Cord	BW Upper Batwing	DOS Daylight Occupancy Sensor
		AU Asymmetric Up		SS-U/D Separate Switching UPWARDS/DOWNWARDS

EMERGENCY OPTION NOTES

- 3 EM and EC Quantity is not to exceed number of discrete fixture sections in a row.
4 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position Options: S=Starter, J=Joiner, E=Ender
Ex: 5SID-24-HU-HD-35-UNV-T1-WH-EM2SJ



FOR INDIVIDUALS	
EM ² Emergency Battery	EC Emergency Circuit

FOR LINEAR RUNS ^{3, 4}					
EM		EC			
EMERGENCY BATTERY PACK	QUANTITY PER RUN ³	POSITION IN RUN ⁴	EMERGENCY CIRCUIT	QUANTITY PER RUN ³	POSITION IN RUN ⁴



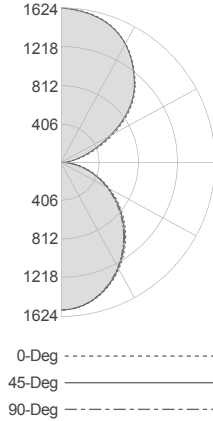
PHOTOMETRICS & ENERGY CHARTS

5SID-04-HU-HD-35-UNV-XX-X

Total Lumens: 8,357
Ratio: 50% Up & 50% Down
Wattage: 55.7
Efficacy: 150.0 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1164.1	13.9
0 - 40	1876.7	22.5
0 - 60	3233.9	38.7
0 - 90	4089.6	48.9
90 - 180	4267.8	51.1
0 - 180	8357.4	100.0



Indirect (Lambertian) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	16.7	15.2	13.4	11.4	9.7
Lumens/ft	2496	2296	2032	1777	1523
LPW	149.9	151.1	152.0	155.7	157.2

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	11.9	10.5	8.6	6.7	5.0
Lumens/ft	1741	1542	1277	1022	769
LPW	146.2	147.4	148.1	153.1	155.3

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	15.4	13.9	12.1	10.2	8.4
Lumens/ft	2289	2089	1825	1569	1316
LPW	148.7	149.9	150.7	154.6	156.1

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	10.3	8.8	7.0	5.0	3.3
Lumens/ft	1471	1272	1007	752	499
LPW	143.3	144.3	144.3	149.5	150.8

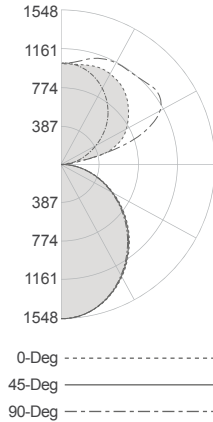
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	13.5	12.0	10.2	8.2	6.5
Lumens/ft	2004	1805	1540	1285	1032
LPW	148.8	150.2	151.2	156.1	158.5

5SID-04-HU-HD-35-UNV-XX-X-BW

Total Lumens: 8,141
Ratio: 50% Up & 50% Down
Wattage: 55.7
Efficacy: 146.0 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1164.1	14.3
0 - 40	1876.7	23.1
0 - 60	3233.9	39.7
0 - 90	4089.6	50.2
90 - 180	4051.3	49.8
0 - 180	8140.9	100.0



Indirect (Batwing) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	16.7	15.2	13.4	11.4	9.7
Lumens/ft	2438	2238	1974	1719	1465
LPW	146.4	147.3	147.7	150.6	151.2

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	11.9	10.5	8.6	6.7	5.0
Lumens/ft	1718	1518	1254	998	745
LPW	144.2	145.2	145.4	149.6	150.5

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	15.4	13.9	12.1	10.2	8.4
Lumens/ft	2235	2035	1771	1515	1262
LPW	145.2	146.0	146.3	149.3	149.7

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	10.3	8.8	7.0	5.0	3.3
Lumens/ft	1460	1260	996	741	487
LPW	142.2	143.0	142.7	147.3	147.4

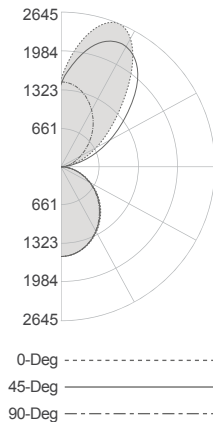
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	13.5	12.0	10.2	8.2	6.5
Lumens/ft	1969	1769	1505	1249	996
LPW	146.1	147.2	147.7	151.7	153.0

5SID-04-HU-HD-35-UNV-XX-X-AU

Total Lumens: 8,177
Ratio: 50% Up & 50% Down
Wattage: 55.7
Efficacy: 146.7 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1164.1	14.2
0 - 40	1876.7	23.0
0 - 60	3233.9	39.5
0 - 90	4089.6	50.0
90 - 180	4087.2	50.0
0 - 180	8176.8	100.0



Indirect (Asymmetric) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	16.7	15.2	13.4	11.4	9.7
Lumens/ft	2448	2249	1985	1729	1476
LPW	147.0	148.0	148.5	151.5	152.3

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	11.9	10.5	8.6	6.7	5.0
Lumens/ft	1716	1517	1252	997	744
LPW	144.1	145.0	145.2	149.4	150.2

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	15.4	13.9	12.1	10.2	8.4
Lumens/ft	2244	2044	1780	1524	1271
LPW	145.8	146.7	147.0	150.1	150.8

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	10.3	8.8	7.0	5.0	3.3
Lumens/ft	1465	1265	1001	745	492
LPW	142.7	143.6	143.4	148.2	148.8

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	13.5	12.0	10.2	8.2	6.5
Lumens/ft	1974	1775	1511	1255	1002
LPW	146.6	147.7	148.3	152.4	153.9

5SID SUSPENDED

INDIRECT / DIRECT



Manufactured
in the USA



Batwing
Distribution



Sure-Fit
Alignment



SPECIFICATIONS

MECHANICAL

Housing Construction:

Extruded Aluminum 6063-T5 alloy outer housing with die-formed steel internal components for strength, alignment and mounting attachment. Our high-quality die-cast end caps are engineered to conceal all fasteners and to retain the sealing gaskets on the inside of the fixture while completing the clean and minimalist look of this luminaire.

Alignment/Assembly:

The alignment system employs a six-point alignment and attachment method, designed to create straighter rows and minimize seams between sections (field assembled). Four alignment pins ensure the outer extruded aluminum rails are aligned, two extended biscuits provide additional strength and a light shield, while two vertical draw-screws secures housing-to-housing attachment.

Lengths:

The 5SID is available in a minimum 2-foot (nominal) length with additional 2-foot increments available. Longer fixture rows are available and will be configured per Lumato factory specifications; typical rows are configured with 4-foot, 6-foot and 8-foot fixtures. Max run length on one power feed is 72'. Continuous runs over 72' will require 2 power feeds.

Mounting Method/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.J.T. power cord. The standard hardware includes a 60" power cord and 54" aircraft cables to accommodate a 48" mounting distance from the ceiling. Ceiling canopy provided. All suspension hardware is tested and listed to UL1598 requirements for loading/fixture support.

Exterior Finish:

The 5SID is available in White and Black polyester powder coat finish to ensure durability.

Suspension Components:

Fixtures are suspended by 1/16" galvanized aircraft cable. Cables are attached to the ceiling suspension point with a 1/4-20 threaded ceiling cable barrel that incorporates a threaded ring to support the feed/hanger canopy allowing access to the j-box/hanger without removal of the suspension cable allowing conductor inspection/service without having to support the fixture(s). Feed canopies are 5" O.D. and hanger canopies are 2" O.D. Cable lengths can be specified for 48", 96" and 144" suspension lengths. Ceiling type options are "T1" T-Grid, "T9" T-Grid, "SC" screw slot grid, "HC" hard ceiling or "JB" hard ceiling j-box mount.

Integrated Controls:

The 5SID is available with optional integrated controls. Sensors are conveniently designed to mount in aperture and are located at the power feed end of each fixture. For runs, each fixture section will be supplied with a discrete sensor that will control that specific section.

OPERATION

Light Engine:

The 5SID is available in 3000K, 3500K and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 80+. Optional 90+ CRI 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 5SID comes standard with 0-10V dimming down to 1%.

Emergency Battery Pack:

UL Listed 924 Emergency System has been engineered to exceed UL Minimum Safety Standards. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack. For 8' VHD, 10' HD and VHD, and 12' MD, HD, and VHD, only the first portion of the fixture will be illuminated by the EM battery pack. "Quantity per Run" refers to the number of fixtures in the run that will be supplied with an emergency battery pack. "Position in Run" refers to which fixture in the run that will contain the battery. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24' run needing two emergency battery packs, one in the starter and one in the joiner, would be ordered as EM2SJ. When a joiner is selected, battery packs are always supplied in 8' fixtures before 6' fixtures in that run.

Emergency Circuit:

Emergency Circuit fixtures are engineered so that the entire fixture is wired to the emergency circuit. "Quantity per Run" refers to the number of fixtures in the run that are wired to the emergency circuit. "Position in Run" refers to which fixture in the run that will be powered by the Emergency Circuit. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24' run with needing two emergency sections, one in the starter and one in the joiner, would be ordered as EC2SJ. When a joiner is selected, Emergency Circuits are always supplied in 8' fixtures before 6' fixtures in that run.

GENERAL

Warranty:

Five (5) Year limited warranty from date of shipment.

Lumen Maintenance:

Rated for 85% initial lumen output at 85,000 Hours of operation, operated at 25°C ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

Certifications:

All luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

Shipping:

2-Week lead time for orders up to 1000 Linear Feet.

4-Week lead time for orders with a Black finish.

Lead time for orders greater and 1,000' will be determined at time of order.

Manufactured 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.