

LINEAR SERIES



DATE PROJECT

COMMENTS

CERTIFICATIONS



2SID SUSPENDED INDIRECT / DIRECT

AN EXTENSION OF OUR 2-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.

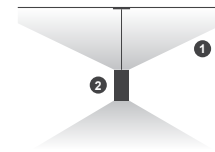
5. SURE-FIT ALIGNMENT

Full-body alignment system adjoins each luminaire section to ensure straighter rows while minimizing the appearance of seams.

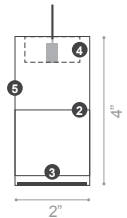
ELECTRICAL

- 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. ARCHITECTURAL DETAILS

Provide a clean architectural appearance with the hidden connect mounting system and seamlessly adjoin luminaires with the sure-fit alignment process.

ORDERING

SERIES	LENGTH	UPPER OUTPUT			DIRECT OUTPUT			CCT	VOLTAGE	MOUNTING	FINISH					
2SID	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 ¹	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	INTEGRATED CONTROLS	OPTICAL
BLANK = 80 CRI	BLANK = 48" CABLE	OS Occupancy Sensor	BLANK = LAMBERTIAN
C90 90 CRI	CB96 96" Cables	DOS Daylight Occupancy Sensor	BW Upper Batwing
	CB144 144" Cables		
	BC Black Canopy & Cord		

CIRCUITING

SS-U/D Separate Switching
UPWARDS/DOWNWARDS

FOR INDIVIDUALS

EM² Emergency Battery
EC Emergency Circuit

FOR LINEAR RUNS^{3,4}

EM	QUANTITY PER RUN ³	POSITION IN RUN ⁴
EMERGENCY BATTERY PACK		
EC	QUANTITY PER RUN ³	POSITION IN RUN ⁴
EMERGENCY CIRCUIT		

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: 2SID-24-HU-HD-35-UNV-T1-WH-EM2SJ





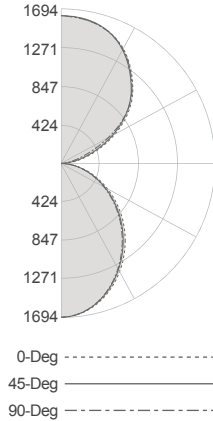
PHOTOMETRICS & ENERGY CHARTS

2SID-04-HU-HD-35-UNV-XX-X

Total Lumens: 8,419
Ratio: 50% Up & 50% Down
Wattage: 65.2
Efficacy: 129.1 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1245.1	14.8
0 - 40	1982.2	23.5
0 - 60	3339.1	39.7
0 - 90	4147.4	49.3
90 - 180	4271.2	50.7
0 - 180	8418.6	100.0



Indirect (Lambertian) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	19.5	17.6	15.1	12.7	10.3
Lumens/ft	2468	2311	2036	1789	1528
LPW	126.6	131.6	135.0	141.3	148.5

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	14.8	12.8	10.3	7.9	5.6
Lumens/ft	1714	1556	1282	1034	773
LPW	116.1	121.4	123.9	130.5	139.2

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	18.2	16.3	13.8	11.4	9.0
Lumens/ft	2261	2104	1829	1581	1320
LPW	123.9	129.1	132.3	138.7	146.2

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	13.1	11.2	8.7	6.3	3.9
Lumens/ft	1444	1287	1012	764	503
LPW	110.0	115.1	116.3	121.7	128.7

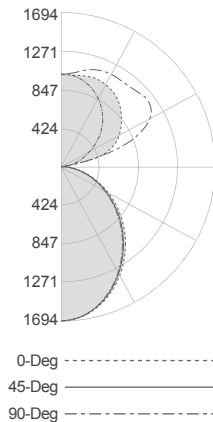
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	16.3	14.4	11.9	9.5	7.1
Lumens/ft	1977	1819	1545	1297	1036
LPW	121.1	126.5	129.8	136.8	145.7

2SID-04-HU-HD-35-UNV-XX-X-BW

Total Lumens: 8,199
Ratio: 50% Up & 50% Down
Wattage: 65.2
Efficacy: 126.0 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1245.1	15.2
0 - 40	1982.2	24.2
0 - 60	3339.1	40.7
0 - 90	4147.4	50.6
90 - 180	4051.5	49.4
0 - 180	8198.8	100.0



Indirect (Batwing) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	19.5	17.6	15.1	12.7	10.3
Lumens/ft	2410	2253	1979	1731	1470
LPW	123.6	128.3	131.2	136.7	142.8

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	14.8	12.8	10.3	7.9	5.6
Lumens/ft	1690	1533	1258	1010	749
LPW	114.5	119.6	121.6	127.6	135.0

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	18.2	16.3	13.8	11.4	9.0
Lumens/ft	2207	2050	1775	1527	1266
LPW	121.2	126.0	128.7	134.4	140.8

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	13.1	11.2	8.7	6.3	3.9
Lumens/ft	1432	1275	1000	753	492
LPW	109.2	114.1	115.0	119.9	125.8

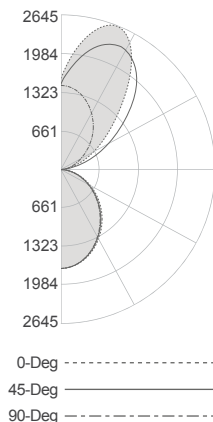
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	16.3	14.4	11.9	9.5	7.1
Lumens/ft	1941	1784	1509	1261	1000
LPW	118.9	124.0	126.8	133.0	140.7

2SID-04-HU-HD-35-UNV-XX-X-AU

Total Lumens: 8,235
Ratio: 50% Up & 50% Down
Wattage: 65.2
Efficacy: 126.6 LM/W
Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1245.1	15.1
0 - 40	1982.2	24.1
0 - 60	3339.1	40.5
0 - 90	4147.4	50.4
90 - 180	4087.4	49.6
0 - 180	8234.8	100.0



Indirect (Asymmetric) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	19.5	17.6	15.1	12.7	10.3
Lumens/ft	2421	2264	1989	1741	1480
LPW	124.1	128.9	131.8	137.5	143.8

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	14.8	12.8	10.3	7.9	5.6
Lumens/ft	1689	1531	1257	1009	748
LPW	114.4	119.4	121.5	127.4	134.7

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	18.2	16.3	13.8	11.4	9.0
Lumens/ft	2216	2059	1784	1536	1275
LPW	121.7	126.6	129.4	135.2	141.8

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	13.1	11.2	8.7	6.3	3.9
Lumens/ft	1437	1280	1005	757	496
LPW	109.5	114.5	115.5	120.7	127.0

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	16.3	14.4	11.9	9.5	7.1
Lumens/ft	1947	1790	1515	1267	1006
LPW	119.3	124.5	127.2	133.7	141.5

2SID SUSPENDED

INDIRECT / DIRECT



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 minimalistic look of this luminaire.

Alignment/Assembly:

The alignment system employs a seven-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 a vertical draw-screw secures housing-to-housing attachment.

Lengths:

The 2SID 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 2SID 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 2SID 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 2SID 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 2SID 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.