

LINEAR SERIES



DATE PROJECT

COMMENTS

CERTIFICATIONS



3SID SUSPENDED INDIRECT / DIRECT

AN EXTENSION OF OUR 3-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.

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.

5. SURE-FIT ALIGNMENT

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

ELECTRICAL

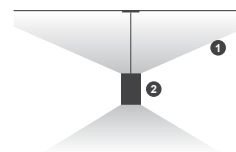
6. OPTIONAL INTEGRAL EMERGENCY BATTERY PACK

UL Listed 924 emergency system has been engineered to exceed UL minimum safety standards.

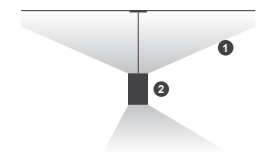
7. 0-10 VOLT DIMMING STANDARD

120/277VAC 0-10V dimming to 1% standard.

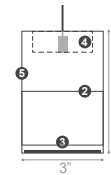
LIGHT DISTRIBUTION: LAMBERTIAN



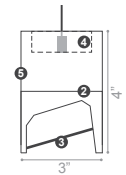
LIGHT DISTRIBUTION: WW



CROSS-SECTION: LAMBERTIAN



CROSS-SECTION: WW



ORDERING

SERIES	LENGTH	UPPER OUTPUT		DIRECT OUTPUT		CCT	VOLTAGE	MOUNTING	FINISH
3SID									
	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	347¹ 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
BLANK = 80 CRI	BLANK = 48" CABLE	CB144 144" Cables	BLANK = LAMBERTIAN
C90 90 CRI	CB96 96" Cables	BC Black Canopy & Cord	BW Upper Batwing
		WW Wall Wash	OS Occupancy Sensor
			AU Asymmetric Up
			DOS Daylight Occupancy Sensor

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=Enders
Ex: 3SID-24-HU-HD-35-UNV-T1-WH-EM2SJ



3SID SUSPENDED

INDIRECT / DIRECT



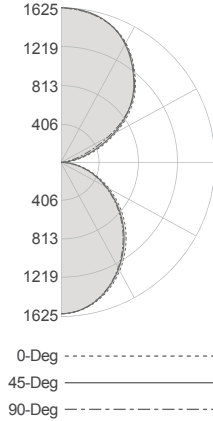
PHOTOMETRICS & ENERGY CHARTS

3SID-04-HU-HD-35-UNV-XX-X

Total Lumens: 8,400
 Ratio: 50% Up & 50% Down
 Wattage: 59.2
 Efficacy: 141.5 LM/W
 Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1192.7	14.2
0 - 40	1913.9	22.8
0 - 60	3270.4	38.9
0 - 90	4128.8	49.2
90 - 180	4271.6	50.8
0 - 180	8400.4	100.0



Indirect (Lambertian) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	17.7	16.0	14.2	11.7	9.8
Lumens/ft	2435	2235	1963	1721	1458
LPW	137.2	139.9	138.0	146.6	148.8

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	13.0	11.4	9.5	7.1	5.2
Lumens/ft	1741	1551	1280	1037	774
LPW	133.5	136.6	135.0	145.7	148.3

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	16.6	14.8	13.0	10.6	8.6
Lumens/ft	2249	2050	1777	1535	1273
LPW	135.7	138.5	136.2	145.3	147.5

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	11.4	9.7	7.8	5.5	3.6
Lumens/ft	1471	1281	1010	767	504
LPW	129.0	132.0	128.8	140.1	141.1

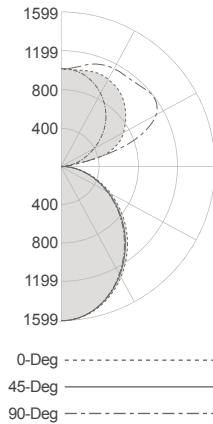
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	14.7	12.9	11.2	8.7	6.7
Lumens/ft	1982	1782	1510	1268	1005
LPW	135.0	138.0	135.3	146.1	149.1

3SID-04-HU-HD-35-UNV-XX-X-BW

Total Lumens: 8,181
 Ratio: 50% Up & 50% Down
 Wattage: 59.2
 Efficacy: 138.2 LM/W
 Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1192.6	14.6
0 - 40	1913.9	23.4
0 - 60	3270.4	40.0
0 - 90	4128.8	50.5
90 - 180	4051.8	49.5
0 - 180	8180.7	100.0



Indirect (Batwing) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	17.8	16.1	14.2	11.9	10.0
Lumens/ft	2438	2248	1976	1734	1471
LPW	137.1	139.7	139.0	146.2	147.7

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	13.0	11.4	9.5	7.1	5.2
Lumens/ft	1717	1528	1256	1014	751
LPW	131.7	134.5	132.5	142.4	143.8

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	16.5	14.8	12.9	10.6	8.7
Lumens/ft	2234	2045	1773	1531	1268
LPW	135.5	138.2	137.2	144.9	146.3

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	11.4	9.7	7.8	5.5	3.6
Lumens/ft	1460	1270	998	756	493
LPW	128.0	130.8	127.4	138.1	137.9

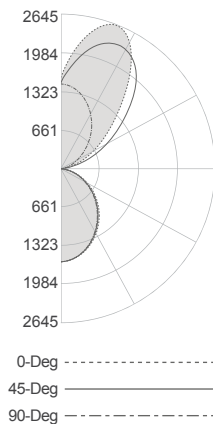
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	14.6	12.9	11.0	8.7	6.8
Lumens/ft	1968	1779	1507	1265	1002
LPW	134.8	137.7	136.5	145.7	147.7

3SID-04-HU-HD-35-UNV-XX-X-AU

Total Lumens: 8,217
 Ratio: 50% Up & 50% Down
 Wattage: 59.2
 Efficacy: 138.8 LM/W
 Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1192.7	14.5
0 - 40	1913.9	23.3
0 - 60	3270.4	39.8
0 - 90	4128.9	50.3
90 - 180	4087.7	49.7
0 - 180	8216.6	100.0



Indirect (Asymmetric) / Direct (Lambertian) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	17.8	16.1	14.2	11.9	10.0
Lumens/ft	2448	2259	1987	1744	1482
LPW	137.7	140.3	139.7	147.1	148.8

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	13.0	11.4	9.5	7.1	5.2
Lumens/ft	1716	1526	1254	1012	749
LPW	131.5	134.4	132.3	142.2	143.5

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	16.5	14.8	12.9	10.6	8.7
Lumens/ft	2243	2054	1782	1540	1277
LPW	136.1	138.8	137.9	145.7	147.3

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	11.4	9.7	7.8	5.5	3.6
Lumens/ft	1464	1275	1003	761	498
LPW	128.5	131.3	128.0	138.9	139.2

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	14.6	12.9	11.0	8.7	6.8
Lumens/ft	1974	1785	1513	1270	1008
LPW	135.2	138.2	137.0	146.4	148.6

3SID SUSPENDED

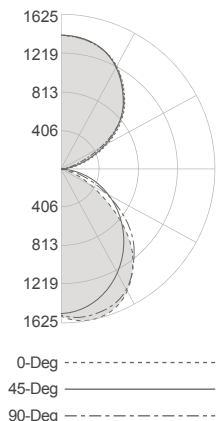
INDIRECT / DIRECT



PHOTOMETRICS & ENERGY CHARTS

3SID-04-HU-HD-35-UNV-XX-X-WW

Total Lumens: 8,327
 Ratio: 50% Up & 50% Down
 Wattage: 59.2
 Efficacy: 140.6 LM/W
 Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1302.5	15.6
0 - 40	2069.1	24.8
0 - 60	3395.8	40.8
0 - 90	4055.8	48.7
90 - 180	4270.7	51.3
0 - 180	8326.6	100.0

Indirect (Lambertian) / Direct (Wall Wash) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	17.8	16.1	14.2	11.9	10.0
Lumens/ft	2484	2288	2035	1783	1520
LPW	139.7	142.2	143.1	150.3	152.6

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	16.5	14.8	12.9	10.6	8.7
Lumens/ft	2277	2081	1828	1576	1313
LPW	138.1	140.6	141.4	149.1	151.5

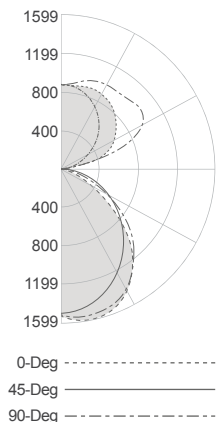
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	14.6	12.9	11.0	8.7	6.8
Lumens/ft	1992	1796	1543	1291	1028
LPW	136.4	139.1	139.8	148.7	151.7

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	13.0	11.4	9.5	7.1	5.2
Lumens/ft	1729	1533	1280	1028	765
LPW	132.6	135.0	135.1	144.4	146.6

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	11.4	9.7	7.8	5.5	3.6
Lumens/ft	1459	1263	1010	758	495
LPW	128.0	130.1	128.9	138.5	138.5

3SID-04-HU-HD-35-UNV-XX-X-WW-BW

Total Lumens: 8,107
 Ratio: 50% Up & 50% Down
 Wattage: 59.2
 Efficacy: 136.9 LM/W
 Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1302.5	16.1
0 - 40	2069.1	25.5
0 - 60	3395.8	41.9
0 - 90	4055.8	50.0
90 - 180	4050.9	50.0
0 - 180	8106.7	100.0

Indirect (Batwing) / Direct (Wall Wash) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	17.8	16.1	14.2	11.9	10.0
Lumens/ft	2426	2230	1977	1725	1462
LPW	136.4	138.6	139.0	145.4	146.8

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	16.5	14.8	12.9	10.6	8.7
Lumens/ft	2223	2027	1774	1522	1259
LPW	134.8	136.9	137.2	144.0	145.3

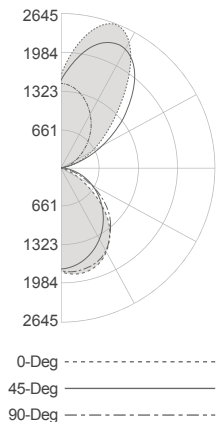
	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	14.6	12.9	11.0	8.7	6.8
Lumens/ft	1956	1761	1508	1256	993
LPW	134.0	136.3	136.6	144.6	146.4

	LU-VHD	LU-HD	LU-MD	LU-LD	LU-VLD
Watts/ft	13.0	11.4	9.5	7.1	5.2
Lumens/ft	1705	1510	1257	1005	742
LPW	130.8	132.9	132.6	141.1	142.1

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	11.4	9.7	7.8	5.5	3.6
Lumens/ft	1448	1252	999	747	484
LPW	127.0	128.9	127.5	136.4	135.3

3SID-04-HU-HD-35-UNV-XX-X-WW-AU

Total Lumens: 8,143
 Ratio: 50% Up & 50% Down
 Wattage: 59.2
 Efficacy: 137.5 LM/W
 Fixture Length: Four Feet



Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1302.5	16.0
0 - 40	2069.1	25.4
0 - 60	3395.8	41.7
0 - 90	4055.9	49.8
90 - 180	4086.9	50.2
0 - 180	8142.7	100.0

Indirect (Asymmetric) / Direct (Wall Wash) Light

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	17.8	16.1	14.2	11.9	10.0
Lumens/ft	2436	2240	1988	1735	1472
LPW	137.0	139.2	139.8	146.3	147.8

	HU-VHD	HU-HD	HU-MD	HU-LD	HU-VLD
Watts/ft	16.5	14.8	12.9	10.6	8.7
Lumens/ft	2232	2036	1783	1531	1268
LPW	135.3	137.5	137.9	144.9	146.3

	MU-VHD	MU-HD	MU-MD	MU-LD	MU-VLD
Watts/ft	14.6	12.9	11.0	8.7	6.8
Lumens/ft	1962	1766	1514	1261	998
LPW	134.4	136.8	137.1	145.3	147.3

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	13.0	11.4	9.5	7.1	5.2
Lumens/ft	1704	1508	1255	1003	740
LPW	130.6	132.8	132.4	140.9	141.8

	VHU-VHD	VHU-HD	VHU-MD	VHU-LD	VHU-VLD
Watts/ft	11.4	9.7	7.8	5.5	3.6
Lumens/ft	1453	1257	1004	752	489
LPW	127.4	129.4	128.1	137.3	136.7

3SID 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 3SID 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 3SID 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 3SID 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 3SID 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 3SID 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.