

# LINEAR SERIES



DATE PROJECT

COMMENTS

CERTIFICATIONS



## 2W WALL DIRECT

AN EXTENSION OF OUR 2-INCH LINEAR FAMILY SERIES

### FEATURES

#### OPTICAL SYSTEM

- 1. VERSATILE LIGHT ENGINE**  
Multiple lumen intensities provide the correct level of illumination within each space.
- 2. EVENLY ILLUMINATED DIRECT LENS**  
High efficiency diffuser designed to minimize glare and provide uniform light distribution.

#### HOUSING

- 3. ARCHITECTURAL DETAILS**  
Concealed connection point between the wall and fixture eliminates 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.

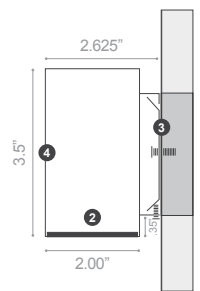
#### ELECTRICAL

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

#### LIGHT DISTRIBUTION



#### CROSS-SECTION

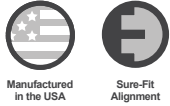


### ORDERING

SERIES	LENGTH	OUTPUT		CCT	VOLTAGE	FINISH	ORDERING NOTES
<b>2W</b>	<b>XX FT</b>	<b>VHD</b> 1250 LM/FT	<b>LD</b> 500 LM/FT	<b>30</b> 3000K	<b>UNV</b> 120-277V	<b>WH</b> White	
	2' Increments EX: 20' = 20	<b>HD</b> 1000 LM/FT	<b>VLD</b> 250 LM/FT	<b>35</b> 3500K	<b>347<sup>1</sup></b> 347V	<b>BLK</b> Black	2 EM not available with 2' fixtures.
		<b>MD</b> 750 LM/FT	<b>CD</b> Custom	<b>40</b> 4000K		<b>S</b> Silver	
						<b>GR</b> CHARCOAL Gray	

### OPTIONS

CRI	INTEGRATED CONTROLS	FOR INDIVIDUALS	FOR LINEAR RUNS <sup>3,4</sup>	EMERGENCY OPTION NOTES
<b>BLANK = 80 CRI</b>	<b>OS</b> Occupancy Sensor	<b>EM<sup>2</sup></b> Emergency Battery	<b>EM</b> EMERGENCY BATTERY PACK QUANTITY PER RUN <sup>3</sup> POSITION IN RUN <sup>4</sup>	3 EM and EC Quantity is not to exceed number of discrete fixture sections in a row.
<b>C90</b> 90 CRI	<b>DOS</b> Daylight Occupancy Sensor	<b>EC</b> Emergency Circuit	<b>EC</b> EMERGENCY CIRCUIT QUANTITY PER RUN <sup>3</sup> POSITION IN RUN <sup>4</sup>	4 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position Options: <b>S</b> =Starter, <b>J</b> =Joiner, <b>E</b> =Ender Ex: 2W-24-HD-35-UNV-WH-EM2SJ
				STARTER JOINER ENDER



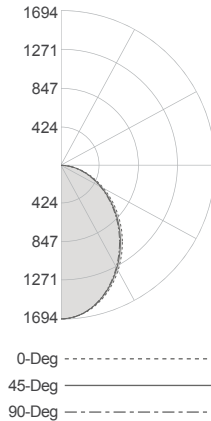
PHOTOMETRICS & ENERGY CHARTS

**2W-04-HD-35-UNV-XX-X**

Total Lumens: 4,148  
Ratio: 0% Up & 100% Down  
Wattage: 38.8  
Efficacy: 106.9 LM/W  
Fixture Length: Four Feet

**Zonal Lumen Summary**

Zone	Lumens	% Fixt
0 - 30	1245.1	30.0
0 - 40	1982.2	47.8
0 - 60	3339.1	80.5
0 - 90	4147.4	100.0
90 - 180	0.8	0.0
0 - 180	4148.1	100.0



**Direct (Lambertian) Light**

	VHD:1250	HD:1000	MD:750	LD:500	VLD:250
<b>Watts/ft</b>	11.6	9.7	7.2	4.8	2.4
<b>Lumens/ft</b>	1194	1037	762	515	253
<b>LPW</b>	102.6	106.9	105.5	107.2	104.3

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 four-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, while a draw-screw secures housing-to-housing attachment. Additional alignment biscuits double as the light shields.

**Lengths:**

The 2W 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 & 8-foot fixtures. Max run length on one power feed is 72'. Continuous runs over 72' will require 2 power feeds.

**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 the Fixture Row Layouts found on pages 3-5. 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 2W is available in White and Black polyester powder coat finish to ensure durability.

**Integrated Controls:**

The 2W 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 2W is available in 3000K, 3500K & 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 2W 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.