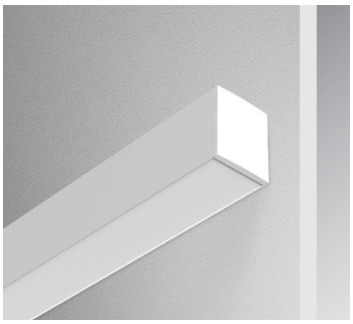
LinearRay

RLR-A23D | 2"x 3" Profile | Direct | Wall Mount





USE OF PRODUCT

LinearRay is a versatile linear lighting system engineered for office, retail and educational spaces. Field-selectable wattage and color temperature adjust brightness and white-light tone during installation, or can be factory-preset. Direct lighting illuminates the space below the fixture. Single- or double-circuit configurations, advanced optical lenses and seamless joiners support continuous wall-mounted runs and L-shaped layouts.

FRAME CONSTRUCTION

Outer housing is constructed of a one-piece aluminum extrusion, creating a clean, continuous profile. Aluminum and steel internal components provide durability and thermal performance by helping manage heat. Precision die-cast end caps give a minimalistic appearance and help prevent light leakage.

FINISH

Available in white, black and silver finishes. For made-to-order finishes, provide a RAL color reference or approved finish sample.

LED ENGINE

Removable LED engine assembly includes the LED board, driver and heat sink for simplified serviceability. Five selectable color temperatures from 2700K to 5000K provide warm to cool white light. Use the top-mounted switch or factory presets with a switch cover.
High-performance LEDs deliver 135 lm/W at 90+ CRI.

ELECTRICAL

Field-selectable low, medium, high and very high output allows installers to match brightness to the space (350, 700, 1000 or 1400 lm/ft). Factory presets are available. Class 2 driver powers the LEDs on 120-277V, 50/60 Hz. 0-10V dimming reduces output to 1% with flicker-free performance. Power factor >0.9 and THD <20% are power-quality ratings. Power connections between sections support continuous runs.

DIRECT OPTICS

Direct: Diffused lens provides smooth, low-glare illumination. Asymmetric, Batwing, Honeycomb-Black[5], Louver-Black[5] and UGR Louver-Black[5] lenses control light distribution. Continuous diffused lens is available.

CONTINUOUS ROW INSTALLATION

Fixtures are available in nominal 2FT, 3FT, 4FT, 6FT and 8FT sections, joined in combinations to create linear runs. A notch-and-lock connection joins sections quickly; optional alignment pins help keep joints straight. Included power connectors support continuous wiring. The continuous row diffused lens can be factory-cut to length or field-installed (on site) for an unbroken line of light. Roll lens length is up to 40 ft; one power feed supports runs up to 72 ft. Refer to the Linear Run Chart on page 7.

CONFIGURATION

Wall mounting supports continuous runs and L shapes only. L connectors use diffused lenses for smooth downward light. Provide leg lengths, feed locations and wall conditions for factory review.

INTEGRATED CONTROLS

Optional plug-in occupancy + daylight sensor responds to people and daylight. It mounts to an extrusion extender for an integrated appearance (except recessed mount). Leviton, Cooper, Lutron and Legrand options on request.

EMERGENCY BATTERY

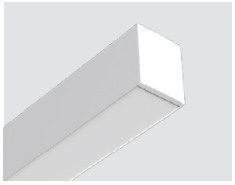
Emergency battery is integral to the fixture, providing backup illumination during a power outage. EI8WI (8W) is available on all linear lengths; EI15WI (15W) is available on 4FT sections and above. Backup illumination serves one linear section only.

INSTALLATION

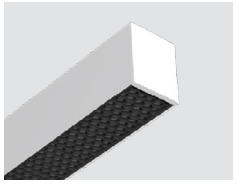
Wall-mounted installation uses WMW white or WMB black mounting selections. Provide wall conditions, feed positions and support locations for factory review. Continuous runs and L shapes only.
Also available in surface, recessed and suspended mounts.

LABELS/COMPLIANCE/WARRANTY

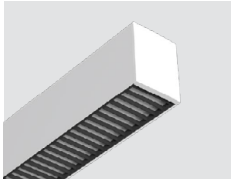
- UL and CUL listed for damp locations.
- DLC Premium Listed.
- 5 Year Limited Warranty.



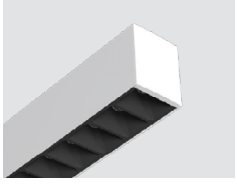
D - Diffused Lens



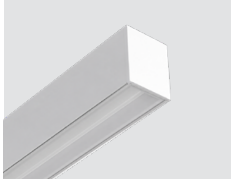
H - Honeycomb Lens



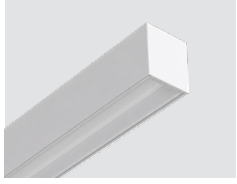
L - Louver Lens



UGL - UGR Louver



A - Asymmetric Lens



B - Batwing Lens

Lumens Per Foot (Selectable or Locked)	350 / 700 / 1000 / 1400 lm/ft (nominal)
Color Temperature (Selectable or Locked)	2700K, 3000K, 3500K, 4000K, 5000K
Color Quality	<3 SDCM color consistency, 90+ CRI
Driver	120-277V; 50/60 Hz; 0-10V Flicker-free dimming to 1%
Nominal Linear Lengths	2 FT, 3 FT, 4 FT, 6 FT, 8 FT
Achievable Configurations	Single, Continuous Run, L-Shape,
Emergency Backup	8W Integral EM - Up to 800 lm Output 15W Integral EM - Up to 1500 lm Output
Optional Controls	Plug-in PIR sensor, Bluetooth sensor
Direct Optics	Diffused, Honeycomb, Louver, UGR Louver, Asymmetric, Batwing
Finish	○ White (Standard), ● Black, ● Silver, ● Made-to-Order
Operating Temperature	-20°C to 40°C (-4°F to 104°F)
Lifespan	Estimated L70>100,000-hour LED lifespan based on IES TM-21 at 25° C
UGR	UGR < 19

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LinearRay

RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

ORDERING INFORMATION

Series
RLR-A23D

Length

Single Run
2FT - 2 ft Length
3FT - 3 ft Length
4FT - 4 ft Length
6FT - 6 ft Length
8FT - 8 ft Length

Continuous Run
XXFT[1] - Total length in feet
(View Chart on Page 7)

Finish[2]
W - White
B - Black
S - Silver
MTO - Made-to-Order

Watts/Lumens[3]
WSD - Wattage Selectable (LD, MD, HD, VHD)
LD - Locked at Low (350 lm/ft)
MD - Locked at Medium (700 lm/ft)
HD - Locked at High (1000 lm/ft)
VHD - Locked at Very High (1400 lm/ft)

Color Temperature
5CTSD - (2700K, 3000K, 3500K, 4000K, 5000K)
L27D - Locked at 2700K
L30D - Locked at 3000K
L35D - Locked at 3500K
L40D - Locked at 4000K
L50D - Locked at 5000K

Direct Optics
D[4] - Diffused
A - Asymmetric
B - Batwing (Double Asymmetric)
H - Honeycomb-Black[5]
L - Louver-Black[5]
UGL - UGR Louver-Black[5]
CF - Continuous Row Lens (Field Cut)
CM - Continuous Row Lens (Factory Cut to Length)

Circuit
1C - One Circuit
2C - Two Circuit
MC - Multi Circuit

Mounting
WMW - Wall Mount White
WMB - Wall Mount Black

Integrated Controls
Blank - None
ZLO - Passive Infrared Occupancy + Daylight Sensor (Leviton)
WAB - WaveLinx LITE Occupancy + Daylight Sensor (Cooper)
WAA - WaveLinx PRO Occupancy + Daylight Sensor (Cooper)
AWO - Athena Occupancy + Daylight Sensor (Lutron)
AWF - Athena Wireless Node (Lutron)
CLM - Wattstopper SensiLUM Wireless Occupancy + Daylight Sensor (Legrand)
WTD - Daylight Sensor (Legrand)
WTO - Occupancy Sensor (Legrand)
ODS - Occupancy + Daylight Sensor (Standard)

Options
EI8WI[6] - 8W Integral Emergency Battery with Integral Test Switch (800 lm)
EI15WI[6,7] - 15W Integral Emergency Battery with Integral Test Switch (1,500 lm)
ETG - Emergency to Generator
GTD - Generator Transfer Device
NL - Night Light
SHR - Shunt Relay

Configuration
L ____ x ____ - L Shape (Side A x Side B)

Notes

1. XX is length in feet (for more information view chart on page 7).
2. Silver, Black and MTO finishes require factory release and physical sample approval.
3. Output selections are nominal. 90+ CRI is standard; select CCT.
4. Diffused optics are standard.
5. Black is standard for Honeycomb, Louver and UGR Louver optics. For other RAL colors, consult factory.
6. Emergency backup serves one section.
7. EI15WI requires a section 4 ft or longer.

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LinearRay

RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

PERFORMANCE CHART

Size	Wattage	2700K(80CRI)		3000K(80CRI)		3500K(80CRI)		4000K(80CRI)		5J00K(80CRI)	
		Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
2ft	20W	2500 lm	125 lm/W	2500 lm	125 lm/W	2700 lm	135 lm/W	2700 lm	135 lm/W	2600 lm	130 lm/W
	15W	1875 lm	125 lm/W	1875 lm	125 lm/W	2025 lm	135 lm/W	2025 lm	135 lm/W	1950 lm	130 lm/W
	10W	1250 lm	125 lm/W	1250 lm	125 lm/W	1350 lm	135 lm/W	1350 lm	135 lm/W	1300 lm	130 lm/W
3ft	30W	3750 lm	125 lm/W	3750 lm	125 lm/W	4050 lm	135 lm/W	4050 lm	135 lm/W	3900 lm	130 lm/W
	22.5W	2812.5 lm	125 lm/W	2812.5 lm	125 lm/W	3037.5 lm	135 lm/W	3037.5 lm	135 lm/W	2925 lm	130 lm/W
	15W	1875 lm	125 lm/W	1875 lm	125 lm/W	2025 lm	135 lm/W	2025 lm	135 lm/W	1950 lm	130 lm/W
4ft	40W	5000 lm	125 lm/W	5000 lm	125 lm/W	5400 lm	135 lm/W	5400 lm	135 lm/W	5200 lm	130 lm/W
	30W	3750 lm	125 lm/W	3750 lm	125 lm/W	4050 lm	135 lm/W	4050 lm	135 lm/W	3900 lm	130 lm/W
	20W	2500 lm	125 lm/W	2500 lm	125 lm/W	2700 lm	135 lm/W	2700 lm	135 lm/W	2600 lm	130 lm/W
6ft	60W	7500 lm	125 lm/W	7500 lm	125 lm/W	8100 lm	135 lm/W	8100 lm	135 lm/W	7800 lm	130 lm/W
	45W	5625 lm	125 lm/W	5625 lm	125 lm/W	6075 lm	135 lm/W	6075 lm	135 lm/W	5850 lm	130 lm/W
	30W	3750 lm	125 lm/W	3750 lm	125 lm/W	4050 lm	135 lm/W	4050 lm	135 lm/W	3900 lm	130 lm/W
8ft	80W	10000 lm	125 lm/W	10000 lm	125 lm/W	10800 lm	135 lm/W	10800 lm	135 lm/W	10400 lm	130 lm/W
	60W	7500 lm	125 lm/W	7500 lm	125 lm/W	8100 lm	135 lm/W	8100 lm	135 lm/W	7800 lm	130 lm/W
	40W	5000 lm	125 lm/W	5000 lm	125 lm/W	5400 lm	135 lm/W	5400 lm	135 lm/W	5200 lm	130 lm/W

- All parameters are based on the frosted diffuser.
- 3ft values calculated by linear interpolation.

ELECTRICAL DATA

Size	Number of Drivers	Driver Current(mA)	Setting	Wattage	Current(A)			
					120V	208V	240V	277V
2ft	1	430	Lv1	20W	0.17	0.10	0.08	0.07
			Lv2	15W	0.13	0.07	0.06	0.05
			Lv3	10W	0.08	0.05	0.04	0.04
3ft	1	640*	Lv1	30W	0.25	0.14	0.13	0.11
			Lv2	22.5W	0.19	0.11	0.09	0.08
			Lv3	15W	0.13	0.07	0.06	0.05
4ft	1	850	Lv1	40W	0.33	0.19	0.17	0.14
			Lv2	30W	0.25	0.14	0.13	0.11
			Lv3	20W	0.17	0.10	0.08	0.07
6ft	1	1300	Lv1	60W	0.50	0.29	0.25	0.22
			Lv2	45W	0.38	0.22	0.19	0.16
			Lv3	30W	0.25	0.14	0.13	0.11
8ft	1	1700	Lv1	80W	0.67	0.38	0.33	0.29
			Lv2	60W	0.50	0.29	0.25	0.22
			Lv3	40W	0.33	0.19	0.17	0.14

*3ft driver current estimated by interpolation; confirm with driver/LED specifications. 3ft input currents calculated as W/V.

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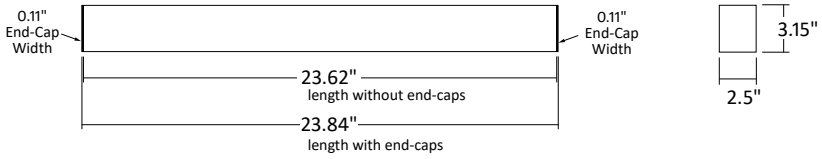
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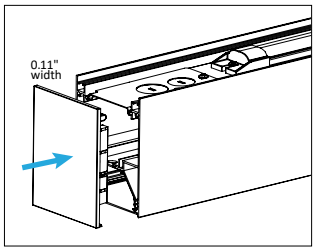
LinearRay

RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

SINGLE RUN DIMENSIONS

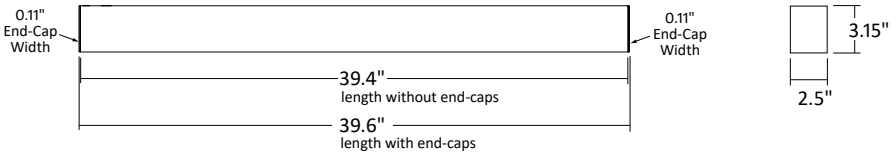
2FT LINEAR RAY

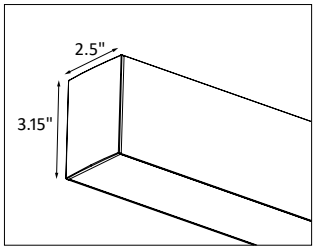




The 0.11" end-cap preventing light leakage and provides clean look. Two end-caps are required per run - one at the start and one at the end - whether installing a single fixture or a continuous row.

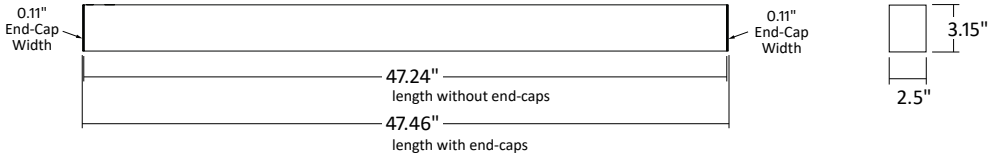
3FT LINEAR RAY



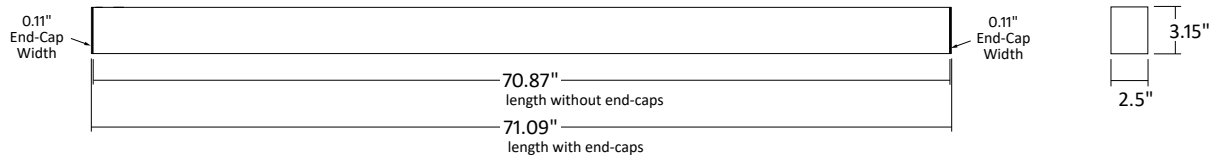


2.5" by 3.15" profile

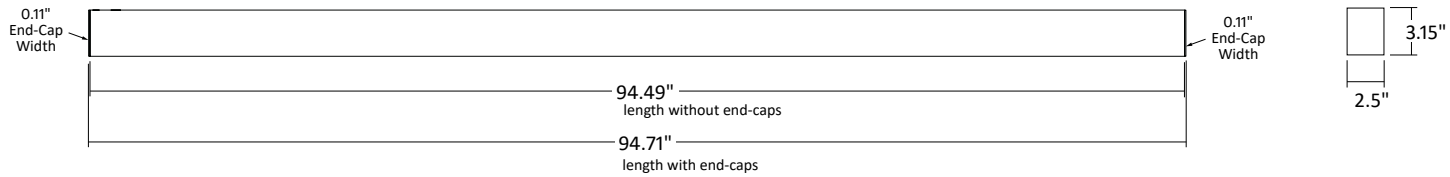
4FT LINEAR RAY



6FT LINEAR RAY



8FT LINEAR RAY



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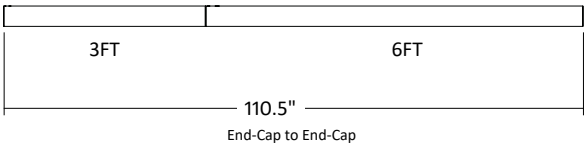
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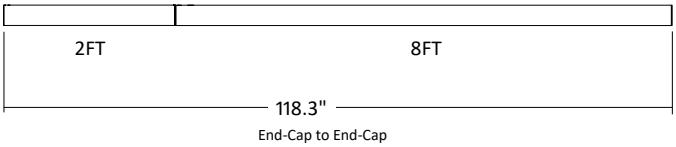
RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

CONTINUOUS RUN DIMENSIONS (9', 10', 11', 12', 13', 14')

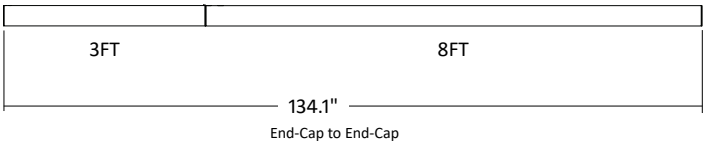
9FT LINEAR RAY



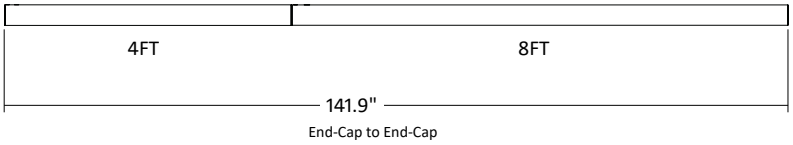
10FT LINEAR RAY



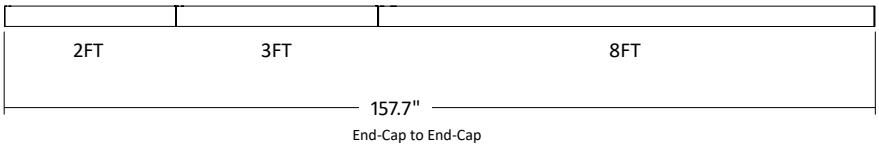
11FT LINEAR RAY



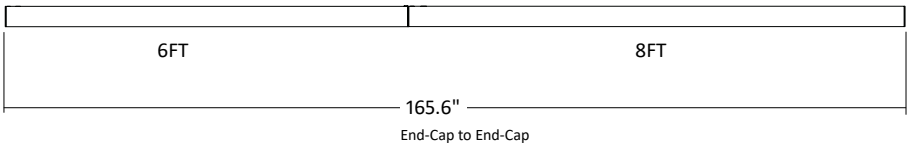
12FT LINEAR RAY



13FT LINEAR RAY



14FT LINEAR RAY



- View continuous run chart on page 7
- Consult factory for other continuous run layout

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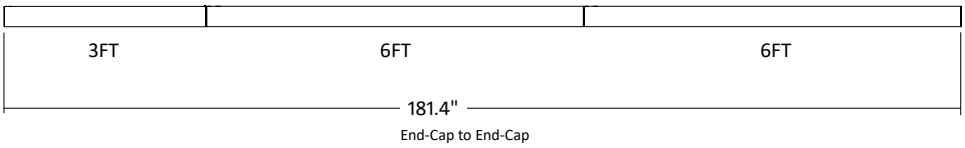
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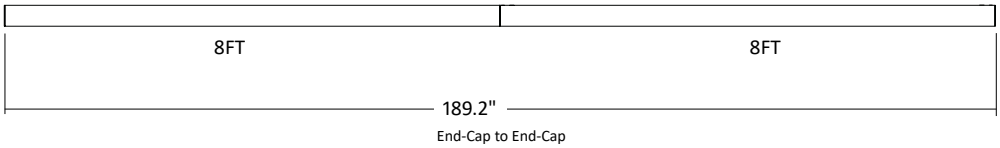
RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

CONTINUOUS RUN DIMENSIONS (15', 16', 17', 18', 19', 20')

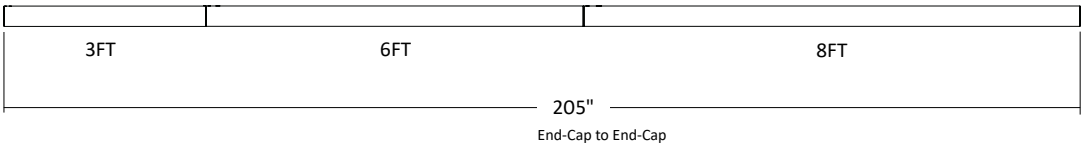
15FT LINEAR RAY



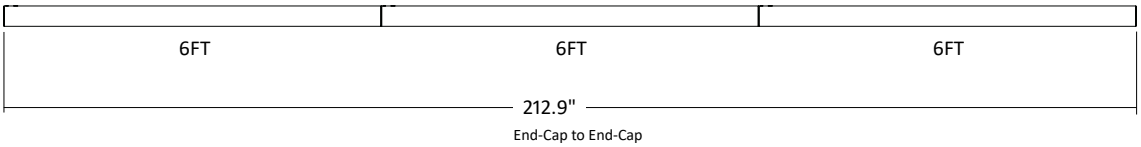
16FT LINEAR RAY



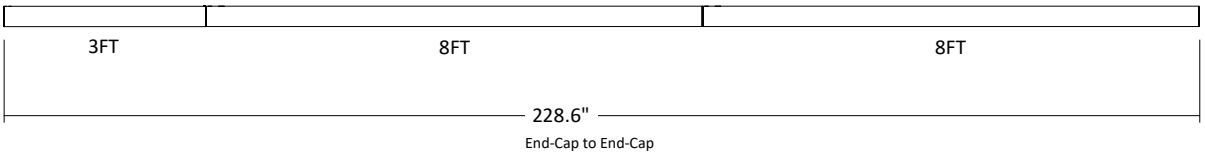
17FT LINEAR RAY



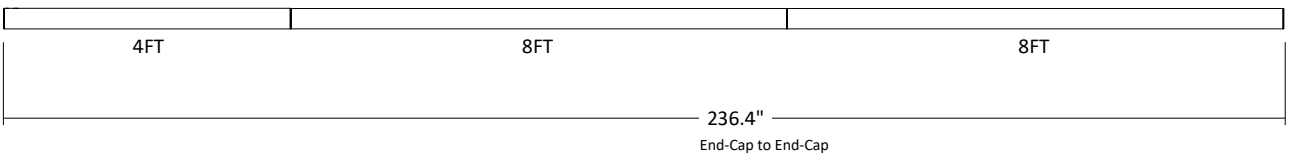
18FT LINEAR RAY



19FT LINEAR RAY



20FT LINEAR RAY



- View continuous run chart on page 7
- Consult factory for other continuous run layout

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LinearRay

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CONTINUOUS RUN CHART

Run Length	Starter	Intermediate					Ender	Joiners Used	Power + Cable Kit	Cable Kit	Endcap to Endcap Length
1'	N/A										
2'	2'								1	1	23.84"
3'	3'								1	1	39.63"
4'	4'								1	1	47.46"
5'	2'						3'	1	1	1	63.25"
6'	6'								1	1	71.09"
7'	3'						4'	1	1	1	86.87"
8'	8'								1	1	94.71"
9'	3'						6'	1	1	1	110.50"
10'	2'						8'	1	1	1	118.33"
11'	3'						8'	1	1	1	134.12"
12'	4'						8'	1	1	1	141.95"
13'	2'	3'					8'	2	1	2	157.74"
14'	6'						8'	1	1	1	165.58"
15'	3'	6'					6'	2	1	2	181.37"
16'	8'						8'	1	1	1	189.20"
17'	3'	6'					8'	2	1	2	204.99"
18'	6'	6'					6'	2	1	2	212.83"
19'	3'	8'					8'	2	1	2	228.61"
20'	4'	8'					8'	2	1	2	236.44"
21'	3'	6'	6'				6'	3	1	3	252.24"
22'	6'	8'					8'	2	1	2	260.07"
23'	3'	4'	8'				8'	3	1	3	275.85"
24'	8'	8'					8'	2	1	2	283.69"
25'	3'	6'	8'				8'	3	1	3	299.48"
26'	2'	8'	8'				8'	3	1	3	307.31"
27'	3'	8'	8'				8'	3	1	3	323.10"
28'	4'	8'	8'				8'	3	1	3	330.93"
29'	2'	3'	8'	8'			8'	4	1	4	346.72"
30'	6'	8'	8'				8'	3	1	3	354.56"
31'	3'	4'	8'	8'			8'	4	1	4	370.34"
32'	8'	8'	8'				8'	3	1	3	378.18"
33'	3'	6'	8'	8'			8'	4	1	4	393.97"
34'	2'	8'	8'	8'			8'	4	1	4	401.80"
35'	3'	8'	8'	8'			8'	4	1	4	417.59"
36'	4'	8'	8'	8'			8'	4	1	4	425.42"
37'	2'	3'	8'	8'	8'		8'	5	1	5	441.21"
38'	6'	8'	8'	8'			8'	4	1	4	449.05"
39'	3'	6'	6'	8'	8'		8'	5	1	5	464.84"
40'	8'	8'	8'	8'			8'	4	1	4	472.67"
41'	3'	6'	8'	8'	8'		8'	5	1	5	488.46"
42'	4'	6'	8'	8'	8'		8'	5	1	5	496.29"
43'	3'	8'	8'	8'	8'		8'	5	1	5	512.08"
44'	4'	8'	8'	8'	8'		8'	5	1	5	519.91"
45'	2'	3'	8'	8'	8'	8'	8'	6	1	6	535.70"
46'	6'	8'	8'	8'	8'		8'	5	1	5	543.54"

Does not include extended length for integrated controls section

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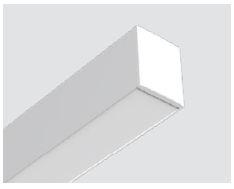
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LinearRay

RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

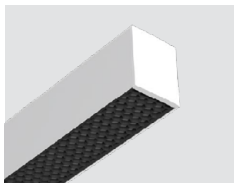
DIRECT OPTICS

This model provides direct illumination. Choose Diffused, Honeycomb, Louver, UGR Louver, Asymmetric, or Batwing optics for the project. Continuous diffused lenses are available field cut (**CF**) or factory cut to length (**CM**).



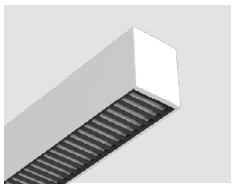
D - Diffused Lens[4]

Smooth luminous aperture



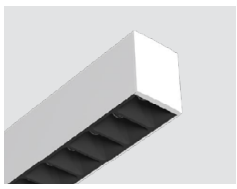
H - Honeycomb Lens[5]

Cellular shielding



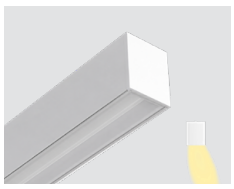
L - Louver Lens[5]

Linear shielding



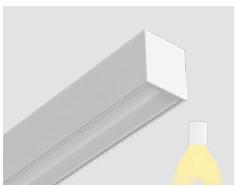
UGL - UGR Louver[5]

Comfort-focused louver



A - Asymmetric

Directional optical section

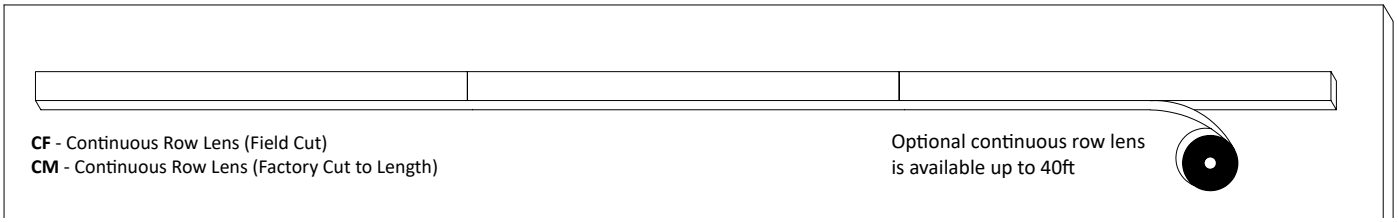


B - Batwing

Double asymmetric optical section

Notes

4. Diffused optics are standard.
5. Black is standard for Honeycomb, Louver and UGR Louver optics. For other RAL colors, consult factory.



OPTICAL SELECTION NOTES

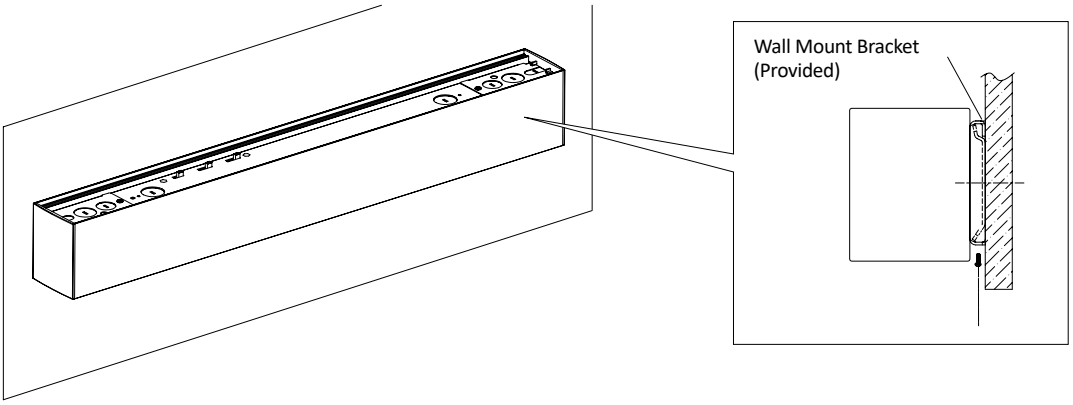
- For project calculations, request photometric files for the specified direct optic and CCT.
- Continuous diffused lens: **CF** - Field Cut; **CM** - Factory Cut to Length. Roll lens is available up to 40 ft. Geometric connectors are available with diffused lenses only.

MOUNTING OPTIONS

MOUNTING METHOD	ORDERING COGE	
	WHITE	BLACK
Wall Mount	○ WMW	● WMB

MOUNTING

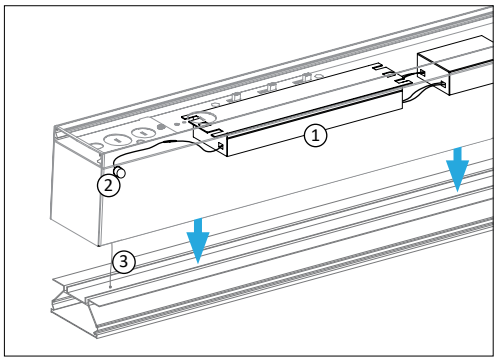
WALL MOUNTING



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EMERGENCY BATTERY



Accessible From Below the Ceiling

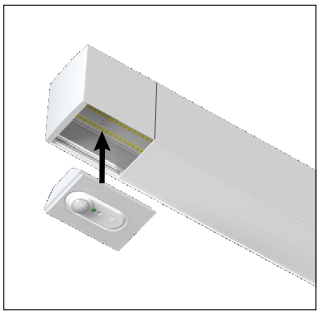
LinearRay is engineered for easy serviceability. The internal LED board assembly drops down to provide direct access to the emergency battery pack. This design eliminates the requirement for plenum access or top-side fixture disassembly during routine maintenance, testing, or component replacement.

1. Integral Emergency Battery
2. Integral Test Switch
3. Safety Cable

EI8WI - Emergency Battery Integral 8W (800lm)

EI15WI - Emergency Battery Integral 15W (1500lm)

INTEGRATED CONTROLS

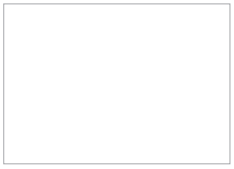


ZLO - Passive Infrared Occupancy + Daylight Sensor LEVITON
WAB - WaveLinx LITE Occupancy + Daylight Sensor COOPER
WAA - WaveLinx PRO Occupancy + Daylight Sensor COOPER
AWO - Athena Occupancy + Daylight Sensor LUTRON
AWF - Athena Wireless Node LUTRON
CLM - Wattstopper SensiLUM Wireless Occupancy + Daylight Sensor legrand
WTD - Daylight Sensor legrand
WTO - Occupancy Sensor legrand
ODS - Occupancy + Daylight Sensor RAYON

Daylighting Control
Occupancy Sensor
Bluetooth

*Integrated controls increase the end-to-end fixture length by 2.875".

FINISH OPTIONS



W - White (Standard)



B - Black



S - Silver



MTO - Made-to-Order

- Standard and made-to-order finish selections coordinate the fixture with the architecture. Provide a RAL number or an approved physical sample for custom colors.
- Black, Silver and Made-to-Order finishes require factory release and approval of a physical sample.

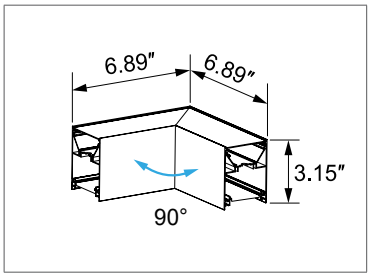
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ACHIEVABLE CONFIGURATIONS



L Joint



L-WALL MOUNT CORNER

Provide both leg lengths, wall conditions, feed position, mounting height and circuit zones. Final connector allowances and support locations require factory confirmation.

ALLOWED LAYOUTS

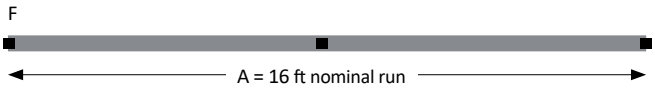
- Continuous linear run
- L-shaped run

CONFIGURATION EXAMPLES

CONTINUOUS RUNS AND L SHAPES ONLY. Schematic planning examples; not to scale. Provide nominal leg lengths and identify overall or centerline dimensions for factory review.

CONTINUOUS LINEAR RUN

Example: two 8 ft sections = 16 ft nominal run



L - CONFIGURATION

Example: A = 6 ft / B = 8 ft



F = Requested feed / start point. **Arrow =** Direction of run. Drawings are not to scale.

Use the wall-mount worksheet on page 11 to develop the project layout.

Diffused optics are required at L connectors.

Final modules, connector allowances, feeds and support locations require factory confirmation.

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LinearRay

RLR-A23DI | 2"x 3" Profile | Direct | Wall Mount

CUSTOM CONFIGURATION TEMPLATE

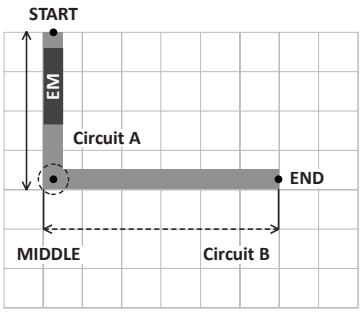
Project: _____ Type: _____

Prepared by: _____ Date: _____

Grid Scale: 1 square = 1 ft x 1 ft

Dimension Basis: ☐ Overall ☐ Centerline ☐ Other

L - L-shaped wall layout



= 1 ft²

—— Circuit A (solid): START to MIDDLE, including EM.

– – Circuit B (dashed): MIDDLE to END. Schematic split.

Provide each run or leg length, feed location and mounting height.
Identify angles and special geometry for factory review.

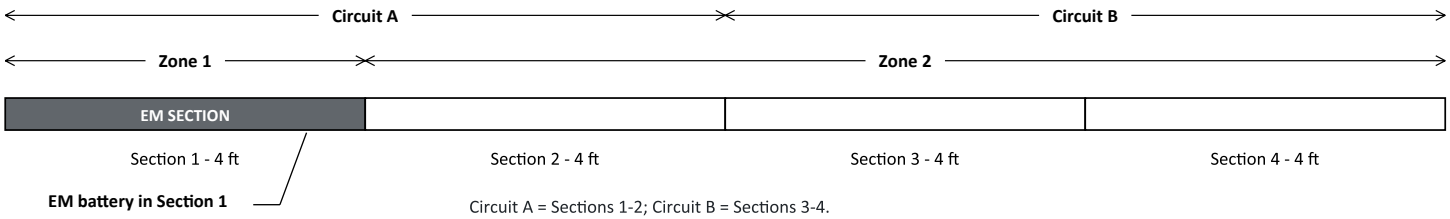
DRAWING REQUIREMENTS

Dimensions: Each section and leg.
Electrical: Feeds and circuit groups.
Controls: Zone and emergency sections.
Finish / mounting: Selection and height.

Specify dimensions in 1 ft increments.

CIRCUIT / ZONE / EMERGENCY EXAMPLE

Straight Run - For 4 ft Sections | 16 ft Overall (Not To Scale)



Circuit A = Sections 1-2; Circuit B = Sections 3-4.
Zone 1 = Section 1; Zone 2 = Sections 2-4.
Circuit and zone labels are diagram references, not ordering codes.

F - Feed S - Support E - Emergency C - Control / Sensor

Planning example only. Submit circuiting, control zoning and EM coverage for factory confirmation.

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