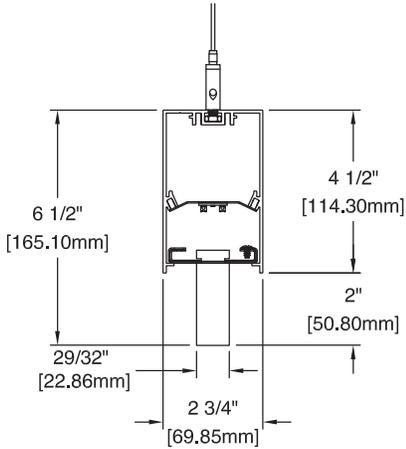


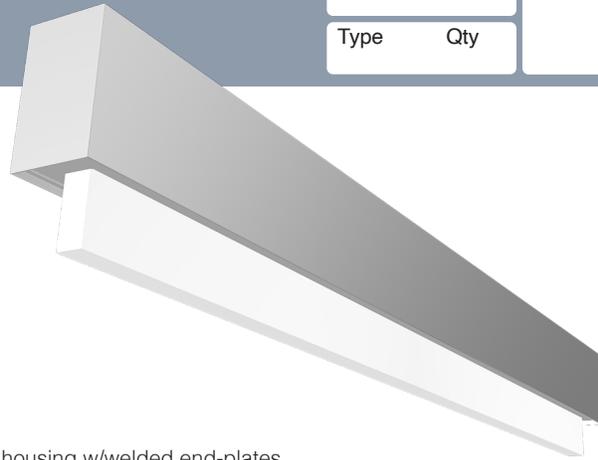


Athena Series | ATHL-MLB-D

Date		Notes
Project		
Type	Qty	



Suspended option shown above. See following pages for recessed and wall mount details.



Features

- Extruded aluminum housing w/welded end-plates.
- 1" clear acrylic with frosted edges and ends. Custom laser engraving available.
- Multiple suspension mount, recessed, wall and surface mount options.
- Programmable driver for custom lumen packages. 0-10V dimming to 1% standard.
- High efficacy LEDs in 80 or 90 CRI; two or three channel tunable white & tunable color.

Ordering Guide

MODEL	OPTICS	CCT ¹	LUMENS ²	LENGTH ³	MOUNTING ⁴	FINISH	OPTIONS
ATHL-MLB-D	SCL						
ATHL-MLB-D Direct	<p>SCL = Solid Clear Acrylic w/Frosted Edges</p> <p>2" drop standard. Contact Day-O-Lite for additional sizes and custom laser etching.</p> <p>LASER ENGRAVING</p> <p>Athena MLB may be custom laser etched with graphics, logos or text for signage, way-pointing or corporate branding. Contact Day-O-Lite at (401) 467-8232 for specifying details.</p>	<p>27 = 2700K 80CRI 30 = 3000K 80CRI 35 = 3500K 80CRI 40 = 4000K 80CRI 50 = 5000K 80CRI</p> <p>90 CRI add *9' Ex: 940 = 4000K @ 90 CRI</p> <p>TUNABLE WHITE & COLOR¹</p> <p><u>2-Channel White</u> 2DIM10 = for 0-10V 2DALI = for DALI 2DMX = for DMX 2PSQ = for Lutron 2SNS = for Signify 2CAS = for Casambi</p> <p><u>3-Channel White</u> 3DML = for DLM</p> <p><u>3-Channel Color</u> RGB</p> <p><u>4-Channel Color/White</u> RGBW</p> <p><u>5-Channel Color/Warm White/Cool White</u> RGBWW</p>	<p>LO = 260/ft (5W, 50LPW) SO = 350/ft (7W/ft, 50LPW) HO = 450/ft (9W/ft, 50LPW)</p> <p>Consult factory for additional lumen packages.</p> <p>All values nominal.</p>	<p>2 = 2 ft 3 = 3 ft 4 = 4 ft 5 = 5 ft 6 = 6 ft 7 = 7 ft 8 = 8 ft</p> <p>Consult factory for lengths longer than 8' and for continuous rows.</p>	<p>AC = Aircraft Cable PD = Pendant Stem G = Grid F = Flanged TRL = Trimless WM = Wall Mount S = Surface</p>	<p>W = White CC = Custom Color AMW = Anti-Microbial White</p>	<p>DIMMING DRIVERS</p> <p>DIM10 = 0-10V (1%) - Standard DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%)</p> <p>LUTRON™ DIMMING DRIVERS</p> <p>LDE1 = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire LTEA2W = Hi-Lume 1% 2-Wire 120V</p> <p>SENSORS & CONTROLS</p> <p>ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor CAS = Casambi Bluetooth control VDO = Vive Sensor by Lutron</p> <p>EMERGENCY</p> <p>EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery Pack EPC7 = 7W Emergency Battery Pack EPC10 = 10W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack</p>

¹Tunable white, tunable color and RGB/W options detailed on page 6.

²Delivered Lumens are Standard Output (SO) and Low Output (LO) at 80+CRI 4000K CCT. Use the following multiplier to estimate delivered lumens at other CCTs: 2700K = 0.94, 3000K = 0.96, 3500K = 0.98, 5000K = 1.02. All values nominal. See page 4 for photometry.

³See page 2/3 for actual fixture lengths and suspension locations.

⁴See page 4 for suspension mounting details.

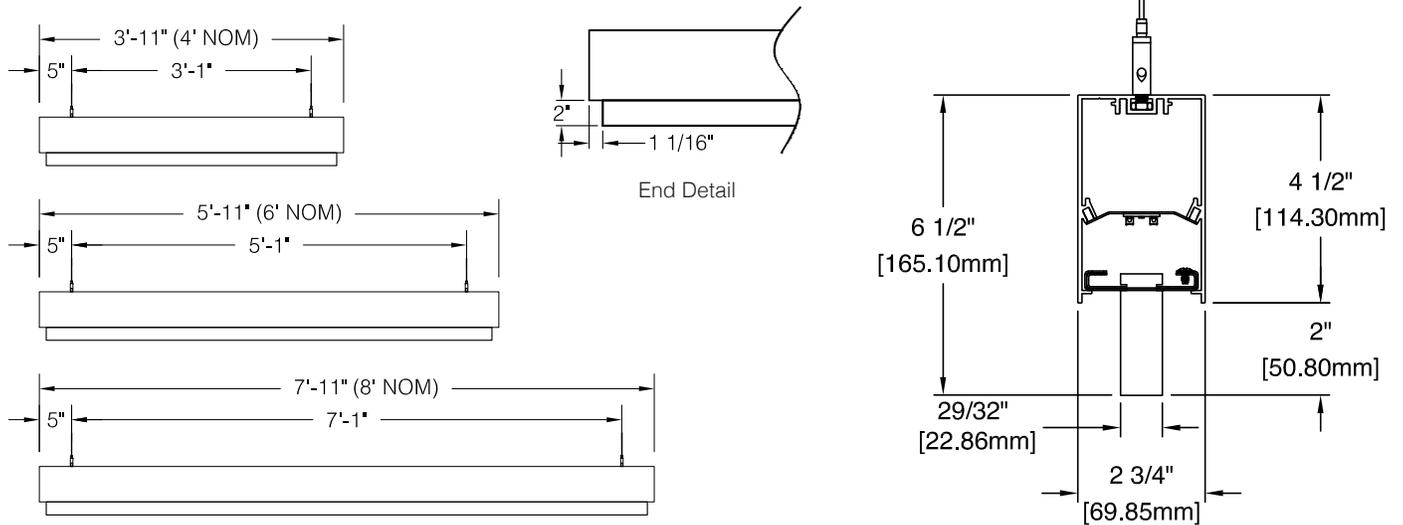


Suspended (AC & PD) Fixtures

NOMINAL LENGTH	ACTUAL LENGTH	SUSP. O.C.
4'	3' 11"	3' 1"
6'	5' 11"	5' 1"
8'	7' 11"	7' 1"

Individual fixtures up to 8' nominal shown below. Consult factory for rows longer than 8'. Standard lens is 1" thick solid acrylic with 2" drop from housing. Consult factory lens drops deeper than 2"

EPC/EMC locations must be approved prior to manufacturing. See page 4 for EPC/EMC location specifications.

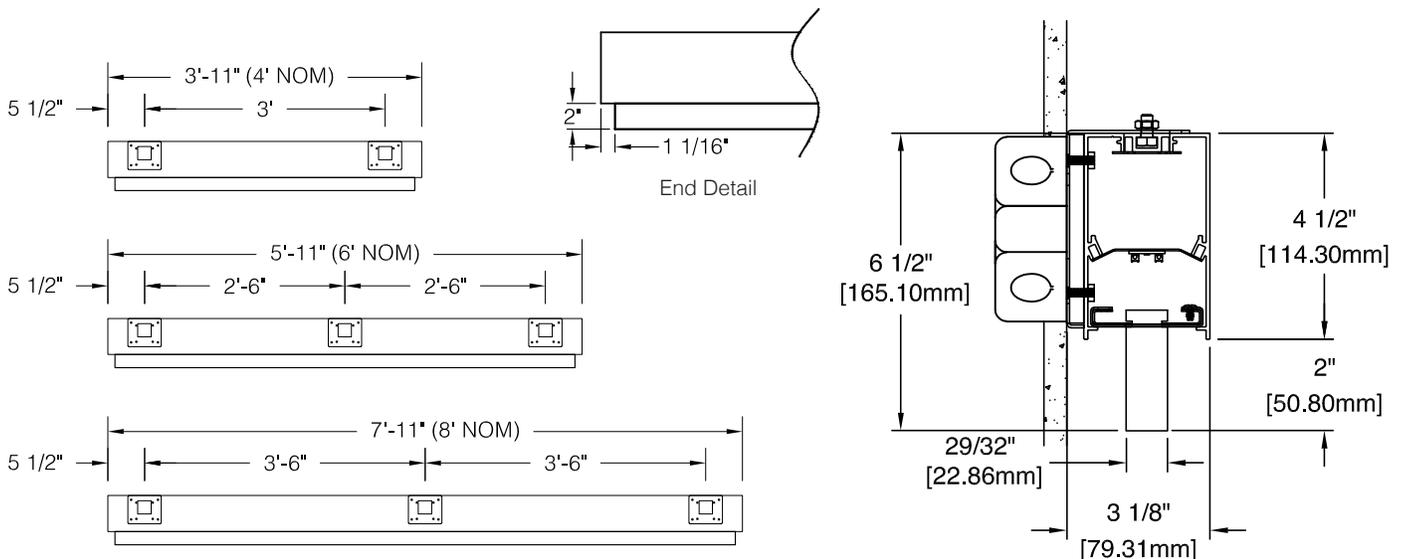


Wall Mount (WM) Fixtures

NOMINAL LENGTH	ACTUAL LENGTH	WALL BRKTS.	WALL O.C.
4'	3' 11"	2	3'
6'	5' 11"	3	2' 6"
8'	7' 11"	3	3' 6"

Individual fixtures up to 8' nominal shown below. Consult factory for rows longer than 8'. Standard lens is 1" thick solid acrylic with 2" drop from housing. Consult factory lens drops deeper than 2"

EPC/EMC locations must be approved prior to manufacturing. See page 4 for EPC/EMC location specifications.

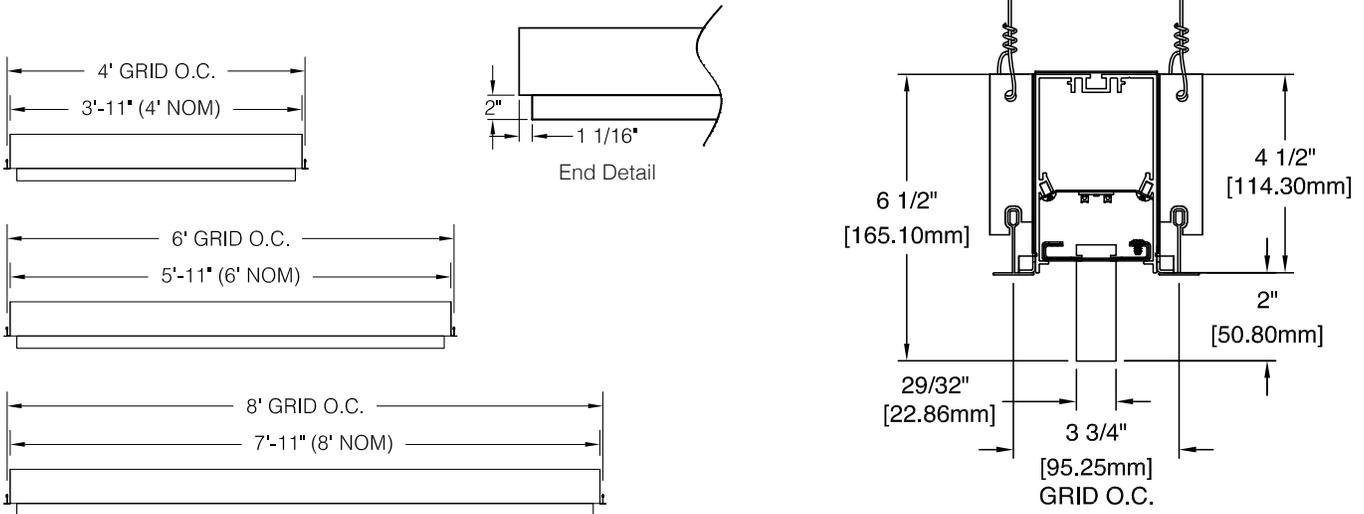


Grid (G) Fixtures

NOMINAL LENGTH	ACTUAL LENGTH	GRID O.C.
4'	3' 11"	4'
6'	5' 11"	6'
8'	7' 11"	8'

Individual fixtures up to 8' nominal shown below. Consult factory for rows longer than 8'. Standard lens is 1" thick solid acrylic with 2" drop from housing. Consult factory lens drops deeper than 2"

EPC/EMC locations must be approved prior to manufacturing. See page 4 for EPC/EMC location specifications.

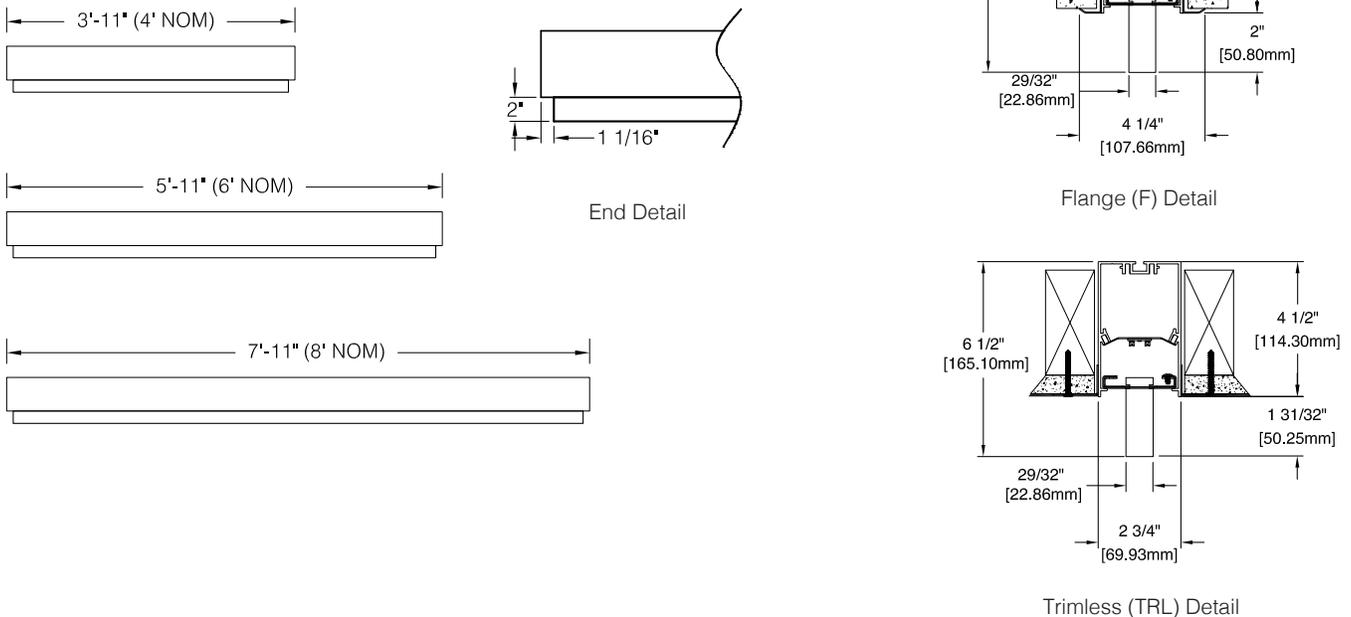


Flange (F) & Trimless (TRL) Fixtures

NOMINAL LENGTH	ACTUAL LENGTH
4'	3' 11"
6'	5' 11"
8'	7' 11"

Individual fixtures up to 8' nominal shown below. Consult factory for rows longer than 8'. Standard lens is 1" thick solid acrylic with 2" drop from housing. Consult factory lens drops deeper than 2"

EPC/EMC locations must be approved prior to manufacturing. See page 4 for EPC/EMC location specifications.



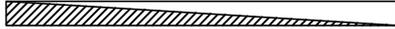
Emergency Locations

EPC will control entire length of individual fixtures. Individual fixtures of differing lengths will deliver the same lumens under EPC power (a 4' fixture will deliver the same total lumens over half the length of an 8' fixture). EMC controlled individual fixtures will deliver lumens per foot as originally specified, unless dimmed at time of power loss. Consult factory for EMC dimming override device.

4' Individual



8' Individual



For individual fixtures to 8' EPC/EMC will power entire fixture.

24' Row (3x8')



For continuous rows longer than 8' one EPC/EMC will be located in the feed section (end-left) of the row as shown below.

24' Row (3x8')



If two EPC/EMC's are required their default locations will be in the feed section (end-left) and last section (end-right) as below.

24' Row (3x8')

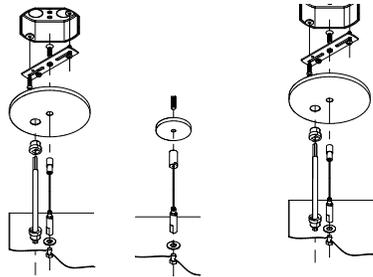


Custom placement of one or more EPC/EMC's must be clearly identified during ordering.

Standard Suspensions

Standard suspension options include adjustable self-locking aircraft cables (AC) and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 60" 18 gauge power and 22 gauge dimming control SJT feed.

PD assemblies are 5/8" dia. (or 3/8" IP) hollow stem for power feed by others, 24" is standard. Consult factory for longer suspension lengths and other mounting options.



Aircraft Cable

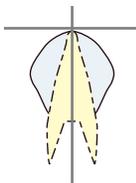
Pendant Stem

Photometry

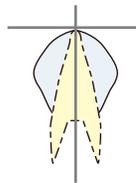
ATHL-MLB-D-SCL-40-LO-4

ATHL-MLB-D-SCL-40-SO-4

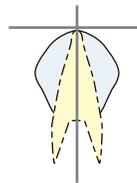
ATHL-MLB-D-SCL-40-HO-4



4000K CCT
WATTS: 21
LUMENS: 1040
LPW: 50
Distribution:
100% Direct



4000K CCT
WATTS: 28
LUMENS: 1400
LPW: 50
Distribution:
100% Direct



4000K CCT
WATTS: 36
LUMENS: 1800
LPW: 50
Distribution:
100% Direct

Specifications

CONSTRUCTION Extruded aluminum housing. 20 gauge cold rolled steel internal components.

REFLECTOR Die-formed steel finished in highly reflective baked white enamel with pre-finished reflective LED tray.

OPTICS 1" thick cast clear acrylic with frosted edges. Custom laser engraving is also available. Contact factory for details.

LED LED modules in 30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum $L_{70} = 50,000$ hours. 3 SDCM colorconsistency.

DRIVER Standard driver is Class 2 AOC 0-10V to 1%, 120/277V input, PF > 90%, THD < 20 @ 120V. Additional dimming protocols available. All drivers prewired from factory for connection to control system (by others). Field replaceable.

MOUNTING Standard suspension options include adjustable self-locking aircraft cables (AC), and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 18 gauge power and 22 gauge dimming control SJT feed. May also be installed in Grid (G) and plaster ceilings in either Flanged (F) or Trimless (TRL) configurations, and wall mount with 1/4" stand-off brackets.

FINISH Finished in baked white enamel. Canopies and pendant stems are white enamel unless otherwise specified.

CERTIFICATION Luminaires are cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Suitable for dry & damp locations. Union Made in the United States of America. I.B.E.W. RoHS compliant.

Day-O-Lite offers a variety of tunable white and tunable color options for a range of human centric applications and budgets. It is recommended that a recognized authority on the benefits and best practices of tunable white be consulted prior to specification. As a rule, fewer channels will provide a basic level of performance for budget conscious applications. Conversely, an increased number of channels, a wider CCT range, higher CRI and more precise color consistency may be more appropriate depending on the application and desired results.

HOW TO SPECIFY

Select from the various channel/control options below and insert desired **Ordering Code** into the **COLOR TEMP** column of the Ordering Guide on page 1. No need to add a dimming option as the codes include the chosen protocol.

2-CHANNEL TUNABLE WHITE OPTIONS

- 2700K - 6500K CCT range
- 1000L/ft LED modules @ 4000K
- 80+ CRI w/3SDCM color accuracy
- 10W/ft. nominal power

Ordering Codes

- 2DIM10** for 0-10V control
- 2DALI** for DALI control
- 2DMX** for DMX control
- 2PSQ** for Lutron Quantum control
- 2SNS** for control via Signify SNS sensors
- 2CAS** for control via Casambi BLE wireless devices

LEGRAND BLANCO MULTI-CHANNEL OPTIONS

Blanco-2

Blanco-2 mixes two channels of white LEDs to approximate the blackbody curve for tunable white applications. CCT and intensity may be adjusted with controls by others.

- 3000K-5000K CCT range
- 1000L/ft LED modules @ 4000K
- 90+ CRI w/2SDCM color accuracy
- 10W/ft. nominal power

Ordering Codes

- B2DLM** for DLM control

Blanco-3

Blanco-3 mixes three channels of white LEDs across a wider range of color temperatures for more demanding tunable white applications. CCT and intensity may be adjusted with controls by others.

- 2700K-6500K CCT range
- 1000L/ft. LED modules @ 4000K
- 90+ CRI w/SDCM color accuracy
- 10W/ft. nominal power

Ordering Codes

- B3DLM** for DLM control

RGB & RGBW TUNABLE COLOR

- RGB = Red, Green, Blue color mixing LEDs
- RGB/W = Red, Green, Blue + White of chosen CCT
- Dimming from 100% to 1%.
- 90+ CRI w/3SDCM color accuracy
- 10W/ft. nominal power

Notes:

- RGB requires an RGB DMX or DALI controller (by others)
- RGBW requires an RGBW DMX or DALI controller (by others)
- All channels on one driver is standard, if isolating the White from the RGB channels is desired please consult factory.
- RGB and RGBW are not recommended for tunable white applications.

Ordering Codes

- RGB** for DMX control
- RGB27** for DMX control w/2700K white
- RGB30** for DMX control w/3000K white
- RGB35** for DMX control w/3500K white
- RGB40** for DMX control w/4000K white
- RGB50** for DMX control w/5000K white
- RGB65** for DMX control w/6500K white
- Add Suffix **DAL** for DALI Control to codes above.

5-CHANNEL TUNABLE WHITE AND COLOR

- RGBWW = Red, Green, Blue, Warm White, Cool White.
- Consult factory for RGBWW tunable white/color options.

Day-O-Lite makes no claims as to the psychological or physiological efficacy of the white color tuning options offered herein.