LLM tunable WHITE
Architectural Slimline

Williams

3-7/16″

2-5/8″

Shown with SQ

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Slim, low-profile suspended or surface mount fixture provides an architectural alternative to standard wrap-around fixtures
- Round or square profile provides design choices for a variety of applications
- Quality, frosted, extruded acrylic lens snaps securely in place to provide gentle diffused illumination
- Slim end plates are designed to conform to lens shape and prevent unsightly light leaks
- Internal, self-aligning joining method ensures straight rows
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – 20-gauge die-formed C.R.S.
- **SHIELDING** – Frosted, matte acrylic, round or square profile.
- **FINISH** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- **ELECTRICAL** – High-quality mid-power LED board. L70 > 54,000 hours per IES TM-21. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses. 50/60 Hz constant current driver.
- **MOUNTING** – Surface (ceiling or wall) or suspended (hanging hardware required)
- **LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: LLM - 4 - L10/8TW - S - SQ - ACF/D48 - OPTIONS - CONTROL/DALI - UNV

ORDERING INFO

SERIES	NOMINAL LENGTH [1]		LUMENS [2]	CRI	CCT	
LLM	**Stand-alone:** 2′, 4′, 6′ & 8′ nominal lengths, fixture ships assembled. Example: **4** = 4′		**L10** 1,000lm	**8** 80	**TW**	Tunable white (3000K-5000K)
	Row-mount: Lengths specified in 24″ increments Example: **12** = 12′		**L15** 1,500lm	**9** 90	**TW2**	Tunable white (2700K-6500K)
	Product Builder Simplify ordering & layout design with the Williams Linear Product Builder at hew.com/product-builder					

MOUNTING TYPE	SHIELDING	MOUNTING AIRCRAFT CABLES (EXAMPLE: ACF/D48) [3]		
S Surface	**RD** Round frosted acrylic	Prefix	Type	Length
P Suspended	**SQ** Square frosted acrylic	**ACF/** Feeder	**D** 1″ grid & hardpan	**24** 24″
		ACJ/ Joiner	**N** 9/16″ grid	**48** 48″
			S Slot grid	**96** 96″

OPTIONS

See page 2 for EMERGENCY BATTERY OPTIONS.
See page 4 for FINISH OPTIONS.

(L__)	Additional lower lumen packages available. Example: 800 nominal lumens = LLM-4-L10/8TW-**(L8)** [5]
PS/120	Pull switch, single circuit [6]
WRS/120	White rocker switch [7]
45AMB	(2) 45° adjustable mounting brackets [8]

CONTROL[4]

See page 4 for ADDITIONAL CONTROL OPTIONS.

–	None
AWNR	Lutron Athena wireless node integral fixture control, RF only [9]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [10]

DRIVER

See page 4 for DRIVER DETAILS.

DALI Driver prewired for DALI applications
DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT
DMX Driver prewired for DMX applications
DSR Sensor-ready driver without external dimming wires (D4i DALI-2) [11]
LD2 Lutron DALI-2 digital driver, 1%

VOLTAGE

120 120V
277 277V
UNV 120-277V

NOTES

[1] 8′ length ships with (2) 4′ lenses.
[2] Lumens per foot output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
[3] Specify with P Mounting Type only. See page 3 for MOUNTING DETAILS.
[4] See page 4 for SENSOR & NODE PLACEMENT DETAILS.
[5] (L5) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
[6] 120V only. Surface mount only.
[7] 120V only. Surface mount only.
[8] Cord recommended, ships separately. Field-adjustable up and down in 7-1/2° increments.
[9] DSR and LD2 Drivers only.
[10] DSR and LD2 Drivers only.
[11] Lutron Athena Controls only.

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FIXTURE PERFORMANCE DATA

	PER FOOT				
	DELIVERED LUMENS		EFFICACY (lm/W)		WATTAGE
	RD LENS	SQ LENS	RD LENS	SQ LENS	
L10	1007	1028	118	121	8.5
L15	1462	1492	113	116	12.9

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25℃ ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

MULTIPLIER TABLE

|		COLOR TEMPERATURE			
	CCT	TW		TW2	
		LUMENS	WATTAGE	LUMENS	WATTAGE
80 CRI	2700K	–	–	0.93	1.02
	3000K	0.95	1.04	0.95	1.01
	3500K	0.98	1.02	0.98	1.00
	4000K	1.00	1.00	1.00	1.00
	5000K	0.96	1.04	1.02	1.00
	6500K	–	–	1.01	1.04
90 CRI	2700K	–	–	0.81	1.02
	3000K	0.83	1.04	0.83	1.01
	3500K	0.86	1.02	0.86	1.00
	4000K	0.88	1.00	0.88	1.00
	5000K	0.84	1.04	0.89	1.00
	6500K	–	–	0.88	1.04

TW
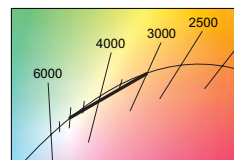
TW2
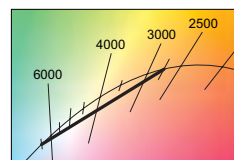
PHOTOMETRY

LLM-4-L10/8TW-S-SQ-DALI Total Luminaire Output: 4010 lumens; 32 Watts | Efficacy: 125 lm/W | 80 CRI; 4000K CCT

CANDLEPOWER DISTRIBUTION
— 0° - - - 45° — 90°
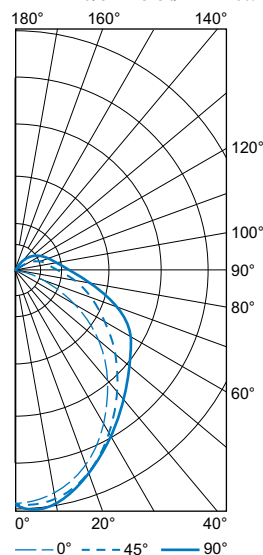
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	1223	1223	1223	
5	1228	1234	1237	117
15	1133	1151	1157	326
25	978	1014	1029	467
35	790	857	905	531
45	565	691	796	532
55	372	551	699	490
65	224	438	598	423
75	107	322	453	326
85	31	234	337	229
90	5	177	256	
95	0	169	237	158
105	0	137	184	125
115	0	112	151	96
125	0	92	129	73
135	0	75	105	52
145	0	66	92	36
155	0	49	65	20
165	0	36	42	8
175	0	13	25	1
180	0	0	0	

| LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	909	23
	0 - 40	1441	36
	0 - 60	2462	61
	0 - 90	3440	86
	90 - 180	570	14
	0 - 180	4010	100

EMERGENCY BATTERY OPTIONS

Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/10WLP	Low profile 10-watt emergency battery [1]
EM/10WRM	Remote mount 10-watt emergency battery [2]
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch [2]
EM/12WRM	Remote mount 12-watt emergency battery [2] [3]

1. Available in 4' and 8' lengths only.
2. Large remote box provided.
3. Not available when CEC regulations are required.

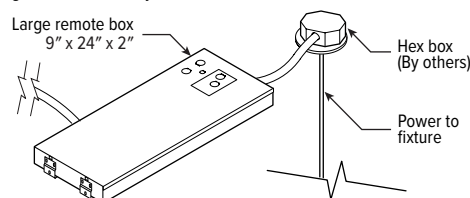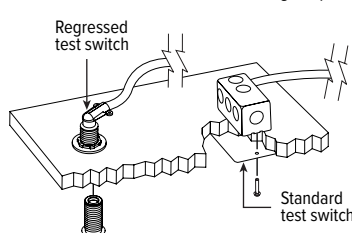## REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS
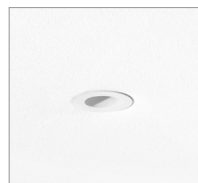
Regressed test switch
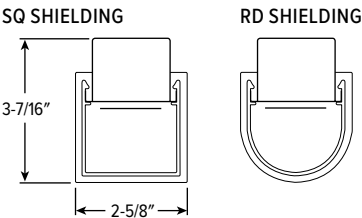ø1-3/4″

EM/10WRM | EM/12WRM

Standard test switch
2-3/4″ x 4-1/2″

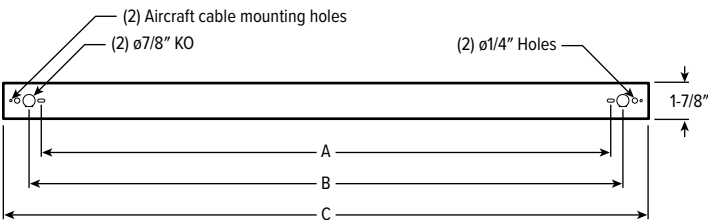Max remote distance is 50' including suspension length, connection by others.

Regressed test switch

Standard test switch

Large remote box 9″ x 24″ x 2″

Hex box (By others)

Power to fixture

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CROSS SECTIONS

SQ SHIELDING

3-7/16″

2-5/8″

RD SHIELDING

FIXTURE DETAILS

See hew.com/power-entry for power entry details.

BACKVIEW

(2) Aircraft cable mounting holes
(2) ø7/8″ KO
(2) ø1/4″ Holes

1-7/8″

A
B
C

PS/120 OPTION

WRS/120 OPTION

	SURFACE MOUNT (A)	7/8″ KOs (B)	ACTUAL LENGTH (C)
2′	19-1/16″	20-1/2″	24-1/4″
4′	41-3/16″	42-5/8″	46-3/8″
6′	63-7/8″	65-3/8″	69-1/16″
8′	87-5/16″	89-1/16″	92-13/16″
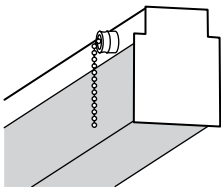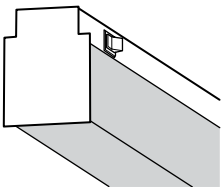
MOUNTING DETAILS

CENTER-TO-CENTER SUSPENDED MOUNTING CABLE

Stand-alone Unit

A

Row-Mounted Units

A B
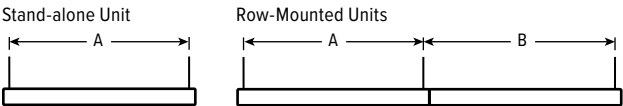
CABLE MOUNT		
	A	B
2′	22-1/4″	24-1/4″
4′	44-3/8″	46-3/8″
6′	67-1/16″	69-1/16″
8′	90-13/16″	92-3/4″

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)
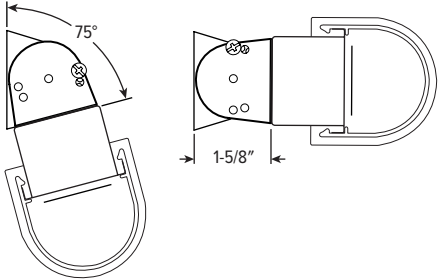
Power End or
Stand-Alone

Row Mount
Support
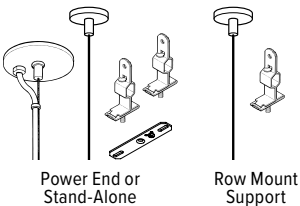
Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.

- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.

- The feeder kits are standard with a 5″ canopy to cover the junction box and a 2″ canopy at the non-feed point. No J-box is required at non-feed points.
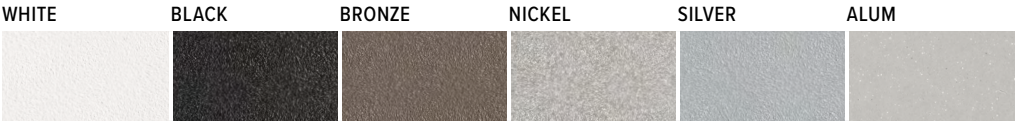
ROW ALIGNER

Row aligner

45AMB

75°

1-5/8″

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FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM
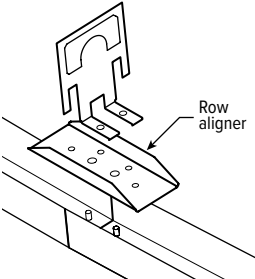
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS
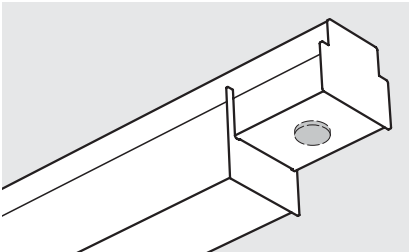
ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DSR and LD2 Drivers only.

SPECIFICATIONS

|	
TYPE	Radio Frequency
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron

LUTRON

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage

0'

9'

13' 9' 6' 3' 0' 3' 6' 9' 13'
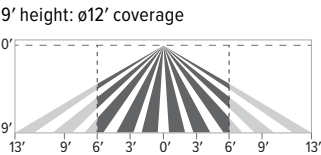
Motion Sensor Coverage

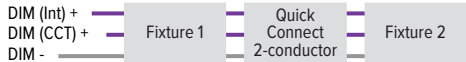| CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL
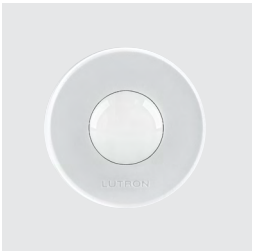
Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%.
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%, black finish.

DRIVER DETAILS

DIM

DIM (Int) +
DIM (CCT) +
DIM -

Fixture 1 — Quick Connect 2-conductor — Fixture 2

DMX

RJ45 Ports (IN/OUT) — Fixture (Master) — Quick Connect Ethernet cable — Fixture (Satellite)

DALI

DALI +
DALI -

Fixture 1 — Quick Connect 2-conductor — Fixture 2

LD2

DA +
DA -

Fixture 1 — Quick Connect 2-conductor — Fixture 2