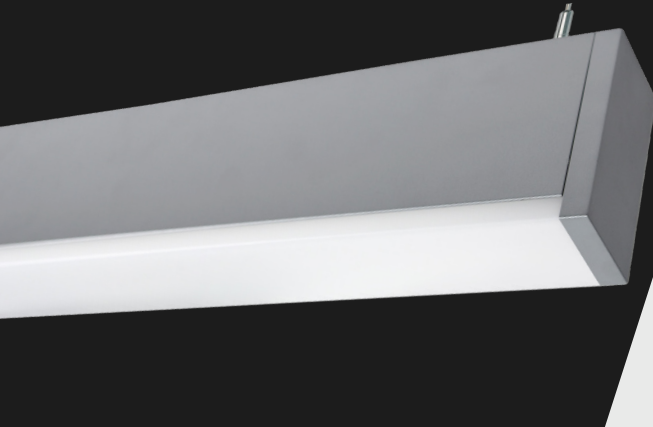




CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

Allusion Series

Linear Suspended Slot

Allusion Suspended is an architectural linear suspended platform offering long life and high efficiency provided by the included TriGain® Technology. Allusion provides a variety of lens, intersection, housing color and accessory options, an ideal package for any specifier or architect's tool box.

CONSTRUCTION

Housing:	Aluminum extruded housing. Diecast endcaps
Lens:	Impact resistant Medium Flush, Glow, and Wall Wash lenses. Powdercoated metal Louvers
Paint:	Powder painted, standard Black/White/Silver. Custom colors available
Weight:	8-22 Lbs
Optical Assembly:	Precision formed high efficiency reflector and optical diffuser

OPTICAL SYSTEM

Delivered Down Lumens:	400-1100 lm/LFT 100 lumen Increments per linear foot (LFT)
Down Distribution Pattern:	Medium Flush, Louver (no lens), Glow, Wall Wash
Delivered Up Lumens:	400-1100 lm/LFT 100 lumen Increments per linear foot (LFT)
Up Distribution Pattern:	Batwing
System Efficacy (LPW):	>90 LPW
CCT:	3000K, 3500K, 4000K, 5000K
CRI (Min):	TriGain® 90, 90
Color Consistency:	4 Step MacAdam Ellipse

LUMEN AMBIENT TEMPERATURE

Product ID	Operating Temperature
LALS	-10° TO 30° C

ELECTRICAL

Input Voltage:	120-277V, 347V
Input Frequency:	50/60Hz
Standard Dimming Control:	0-10V 1%, Daintree Wireless Controls, Lutron EcoSystem
Power Factor (PF)*:	> 90%
Total Harmonic Distortion (THD)*:	< 20%
EMBB:	Integral Emergency Battery (optional)
Maximum Run Length:	100 ft per 1 powerdrop

* System PF and THD specified at rated watts

CONTROLS

Dimming:	Standard 0-10V, 1% Daintree® Wireless Lutron EcoSystem, Hi-lume 1% with Soft-on, Fade-to-Black
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MOUNTING

- Non-powered Cable Suspension (10ft length)
- Color-matched canopy, power and dimming cord (10ft length)

ADDITIONAL NOTES

- No visible LEDs for for MM, GL, and WW down light lens options
- Independent (IN), single-fixture option is available and comes with factory-installed endcaps and knockout plates. All hardware is included within fixture box
- Suitable for dry and damp locations
- Starter kits must be ordered separately and must match fixture voltage and down distribution



Catalog Logic

1. FIXTURE

LALS

A

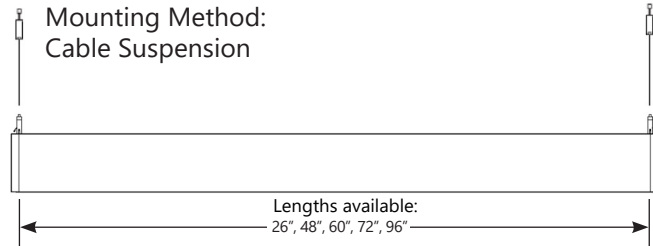
FAMILY	FIXTURE WIDTH	FIXTURE LENGTH	GEN.	VOLTAGE	UP LIGHT DISTRIBUTION	UP LIGHT LUMENS/FOOT	DOWN LIGHT DISTRIBUTION	DOWN LIGHT LUMENS/FOOT	CRI/CCT	CONTROLS	MOUNTING	FINISH ⁷	OPTIONS
LALS	2 = 2 inch 4 = 4 inch	2 ^{1A,11} = 2' Length 4 = 4' Length 5 = 5' Length 6 = 6' Length 8 = 8' Length	A	0 ^{2,5} = 120-277V D ^{2,11} = 347V	BW ³ = Batwing NA = No Uplight	10 = 1,000 LM/FT 09 = 900 LM/FT 08 = 800 LM/FT 07 = 700 LM/FT 06 = 600 LM/FT 05 = 500 LM/FT 04 = 400 LM/FT 00 = No Uplight	MM = Medium Flush Lens LW ^{4,10} = Louver, Matte White GL = Glow Lens (1/2 inch) WW ⁹ = Wall Wash	10 = 1,000 LM/FT 09 = 900 LM/FT 08 = 800 LM/FT 07 = 700 LM/FT 06 = 600 LM/FT 05 = 500 LM/FT 04 = 400 LM/FT	830 = 83 CRI 3000K T35 = TriGain® 3500K T40 = TriGain® 4000K	VQ ⁸ = 0-10V no controls TQ ⁵ = Wireless Enabled, Daintree Compatible TS ⁵ = Wireless Enabled, W/Daintree WFA100	CM = Cable Mount, 10ft length Patterns: L9 ^{4,6,8,10} = 90° L Intersection	WHITE = White BLACK = Black SLVR = Silver	BLANK = No Options EL ⁹ = Emergency Light IN ⁹ = Independent

Ordering Notes:

- 2ft length must have a minimum 800lm/ft for up light and down light.
- Starter Kit must match fixture voltage, ordered separately. Refer to Kits Section.
- Batwing (BW option) is not available with up light lumen output (00 lm/ft).
(Must choose an up light lumen output if you want up light distribution).
- Louvers (LW option) are field installed and have no lens.
- Daintree controls (TQ or TS option) are only available with 120-277V (0 voltage option).
- Corner fixture (L9 option) is only available in 4ft length (length option 4). Refer to Dimensional information.
Verify T-Grid dimensional information for proper layout.
- Contact manufacturer for quote on custom colors. Additional lead times and minimum order quantities are applicable.
- Integral Emergency Battery (EL option) only available with 120-277V (0 voltage option) and 0-10V controls (VQ option).
EL is not available for 2ft lengths or Corner fixtures (L9 option).
- Independent fixture (IN option) has factory installed endcaps and KO plates.
Power cord and suspension cables are provided and must be field installed.
- Corner fixture (L9 option) with Wall Wash (WW) or Louver (LW) not available.
- 2 ft length not available with 347V option (D).

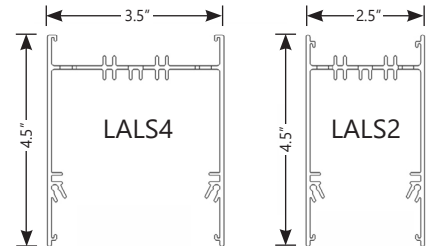
Product Dimensions

Linear LALS

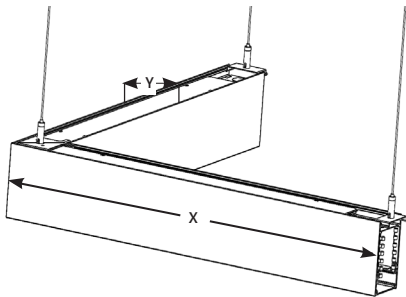


- Fixture is provided with non powered suspension kit.
- Starter kit which includes power connection, pair of end caps and additional suspension kit is required.
- If Independent (IN) option is ordered all hardware included along with factory installed endcaps.

See "Flexibility in Design" for additional information.

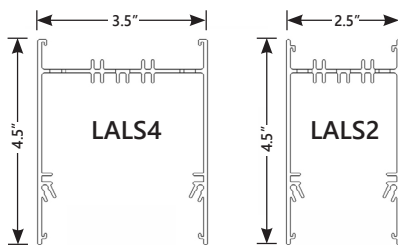


Corner Intersection Pattern (L9 option)



Lengths available (each leg "X" is identical):

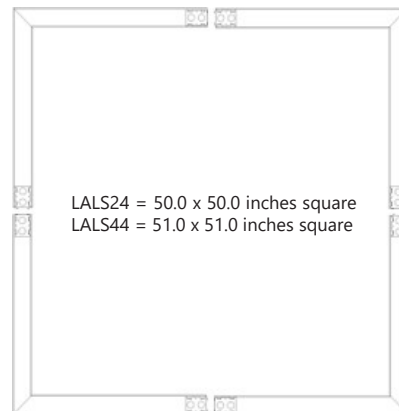
SKU	X	Y
LALS24	25.0in	2.5in
LALS44	25.5in	3.5in



* Fixture is provided with the L9 corner specific suspension kit, linear non-power suspension kit, (2) Knockout plates, (1) male/male and (1) female/female leader cables.

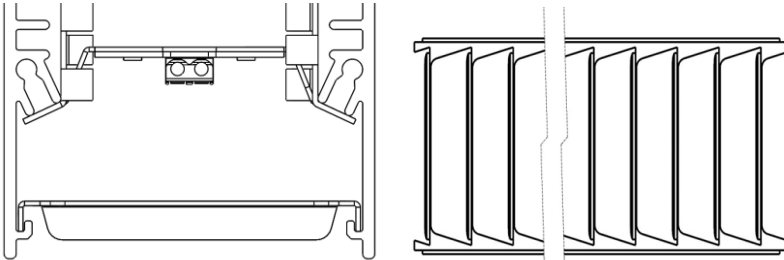
LALS Corner fixtures are continuous and intended to be installed with additional linear luminaires. A linear fixture is recommended to provide end caps and power connections.

Note: If no linear fixtures are needed, as shown below, need to separately order the Powerfeed/Canopy Kit for Independent up light control (see Kits Section in LAL Replacement Guide for additional information).



Product Dimensions

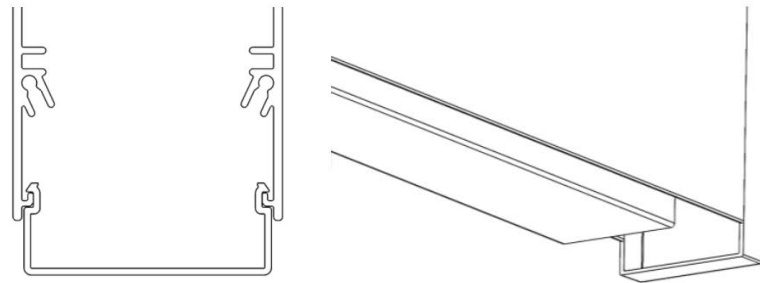
Louvers (LW option)



Louver Length = 12 inches
One used per every foot in LALS fixtures

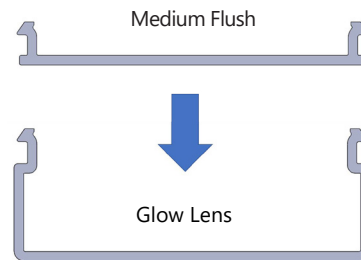
- Provided in separate packs with fixtures, to be installed on site (see Install Guide for proper orientation).
- Louvers are matte white painted finish.
- Louvered fixtures do not have a lens.

Glow Lens (GL option)



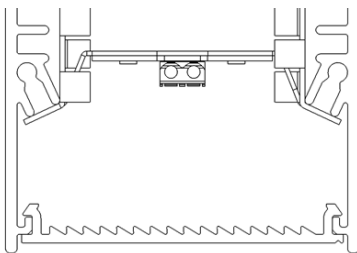
Length of Glow Lens is equal to fixture lengths available

Note: All Glow Lens Starter Kits are provided with Glow Lens end caps. Glow Lens end caps are 1/2" larger than flush lens end caps. Refer to p. 5.



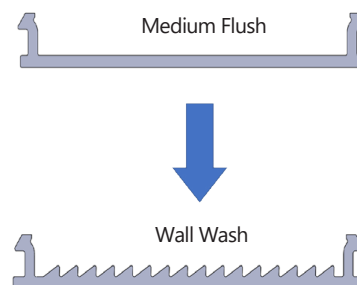
Glow endcaps are larger than standard endcaps

Wall Wash (WW option)



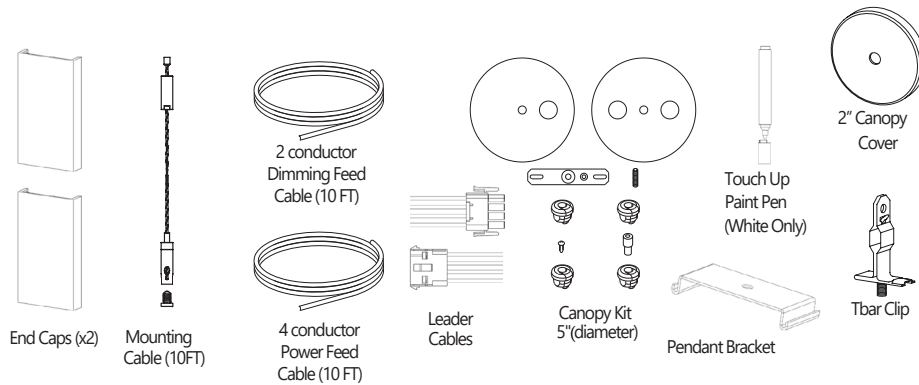
Length of Wall Wash Lens is equal to fixture lengths available

Note: All Wall Wash Lens Starter Kits are provided with flush lens end caps. Refer to p. 5.



Kits and Accessories

STARTER KIT



Fixture	Voltage	Description	Color	Part Number
LALS2	120-277V Voltage = 0	MM = Medium Flush Lens WW = Wall Wash LW = Louver	White	93100034G
			Black	93100035G
			Silver	93100156G
		GL = Glow Lens (0.5")	White	93129673
			Black	93129674
			Silver	93129675
	347V Voltage = D	MM = Medium Flush Lens WW = Wall Wash LW = Louver	White	93119005G
			Black	93119036G
			Silver	93119037G
		GL = Glow Lens (0.5")	White	93129686G
			Black	93129687G
			Silver	93129688G

Fixture	Voltage	Description	Color	Part Number
LALS4	120-277V Voltage = 0	MM = Medium Flush Lens WW = Wall Wash LW = Louver	White	93100157
			Black	93100158
			Silver	93100159
		GL = Glow Lens (0.5")	White	93129689G
			Black	93129690
			Silver	93129691
	347V Voltage = D	MM = Medium Flush Lens WW = Wall Wash LW = Louver	White	93119053G
			Black	93119054G
			Silver	93119055G
		GL = Glow Lens (0.5")	White	93129692
			Black	93129693
			Silver	93129694

COLOR NOTES:

White= 120-277V (18GA) & 347 (14GA): White Endcaps / White Power Cords / White Canopy Covers
 Black= 120-277V (18GA) & 347 (14GA): Black Endcaps / Black Power Cords / Black Canopy Covers
 Silver= 120-277V (18GA): Silver Endcaps / Silver Power Cords / White Canopy Covers
 347V (14GA): Silver Endcaps / White Power Cords / White Canopy Covers

NOTE: Refer to Install Instructions for visuals.

*Voltage of Starter Kit must match Voltage of Fixture

*Glow Lens starter kits contain larger end caps.

REPLACEMENT PARTS:

Refer to our online replacement parts guide, found on the LAL product web page

Lumination LED Linear Architectural - LAL Series - Replacement Guide | IND546

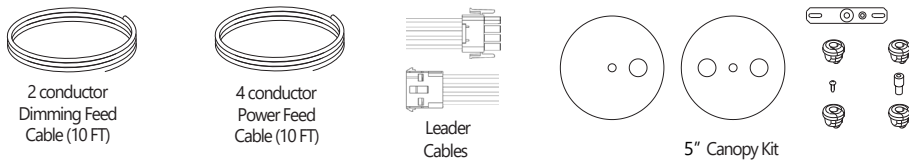
Kits and Accessories

OPTIONAL POWERFEED/CANOPY KIT

NON-POWERED SUSPENSION CABLES - (1 EACH) INCLUDED WITH EACH FIXTURE



OPTIONAL POWERFEED/CANOPY KIT FOR INDEPENDENT UPLIGHT CONTROL



Fixture	Voltage	Description	Color	SAP Part Number
LALS2	120-277V Voltage = 0	Universal	White	93076445
			Black	93076446
			Silver	93084573G
	347V Voltage = D	Universal	Black	93101364G
			White	93101363G

COLOR NOTES:

White= 120-277V (18GA) & 347 (14GA): White Endcaps / White Power Cords / White Canopy Covers

Black= 120-277V (18GA) & 347 (14GA): Black Endcaps / Black Power Cords / Black Canopy Covers

Silver= 120-277V (18GA): Silver Endcaps / Silver Power Cords / White Canopy Covers

347V (14GA): Silver Endcaps / White Power Cords / White Canopy Covers

NOTE: Refer to Install Instructions for visuals.

*Voltage of Starter Kit must match Voltage of Fixture

*Glow Lens starter kits contain larger end caps.

REPLACEMENT PARTS:

Refer to our online replacement parts guide, found on the LAL product web page

Lumination LED Linear Architectural - LAL Series - Replacement Guide | IND546

Performance

LALS2 Up Light*

Product Width & Length	CAT Logic	Lm/ft	Nominal Lumen	4000K TriGain* Wattage	3500K TriGain* Wattage	3000K Standard Wattage
22	08	800	1600	13.9	14.3	15.0
22	09	900	1800	15.8	16.2	17.0
22	10	1000	2000	17.6	18.2	19.0
24	04	400	1600	13.4	13.8	14.5
24	05	500	2000	14.8	15.3	16.1
24	06	600	2400	18.3	18.8	19.8
24	07	700	2800	21.6	22.4	23.4
24	08	800	3200	25.1	25.9	27.1
24	09	900	3600	28.4	29.4	30.9
24	10	1000	4000	31.9	32.9	34.4
25	04	400	2000	14.8	15.3	16.1
25	05	500	2500	19.1	19.6	20.6
25	06	600	3000	23.4	24.1	25.4
25	07	700	3500	27.6	28.4	29.9
25	08	800	4000	31.9	32.9	34.4
25	09	900	4500	36.2	37.2	39.2
25	10	1000	5000	40.5	41.7	43.7
26	04	400	2400	17.2	17.7	18.7
26	05	500	3000	22.4	22.9	24.1
26	06	600	3600	27.4	28.4	29.6
26	07	700	4200	32.6	33.6	35.3
26	08	800	4800	37.7	39.0	40.8
26	09	900	5400	43.1	44.4	46.8
26	10	1000	6000	48.3	49.9	50.4
28	04	400	3200	23.4	24.1	25.4
28	05	500	4000	29.9	30.9	32.3
28	06	600	4800	36.3	37.6	39.3
28	07	700	5600	42.8	44.3	46.3
28	08	800	6400	50.2	51.7	54.3
28	09	900	7200	57.7	59.5	62.4
28	10	1000	8000	65.2	67.0	70.7

LALS4 Up Light*

Product Width & Length	CAT Logic	Lm/ft	Nominal Lumen	4000K TriGain* Wattage	3500K TriGain* Wattage	3000K Standard Wattage
42	08	800	1600	13.9	14.3	15.0
42	09	900	1800	15.8	16.2	17.0
42	10	1000	2000	17.6	18.2	19.0
44	04	400	1600	13.4	13.8	14.5
44	05	500	2000	14.8	15.3	16.1
44	06	600	2400	18.3	18.8	19.8
44	07	700	2800	21.6	22.4	23.4
44	08	800	3200	25.1	25.9	27.1
44	09	900	3600	28.4	29.4	30.9
44	10	1000	4000	31.9	32.9	34.4
45	04	400	2000	14.8	15.3	16.1
45	05	500	2500	19.1	19.6	20.6
45	06	600	3000	23.4	24.1	25.4
45	07	700	3500	27.6	28.4	29.9
45	08	800	4000	31.9	32.9	34.4
45	09	900	4500	36.2	37.2	39.2
45	10	1000	5000	40.5	41.7	43.7
46	04	400	2400	17.2	17.7	18.7
46	05	500	3000	22.4	22.9	24.1
46	06	600	3600	27.4	28.4	29.6
46	07	700	4200	32.6	33.6	35.3
46	08	800	4800	37.7	39.0	40.8
46	09	900	5400	43.1	44.4	46.8
46	10	1000	6000	48.3	49.9	50.4
48	04	400	3200	23.4	24.1	25.4
48	05	500	4000	29.9	30.9	32.3
48	06	600	4800	36.3	37.6	39.3
48	07	700	5600	42.8	44.3	46.3
48	08	800	6400	50.2	51.7	54.3
48	09	900	7200	57.7	59.5	62.4
48	10	1000	8000	65.2	67.0	70.7

***NOTE:** - Total fixture performance is the summation of both the Down and Up wattages and nominal lumens.

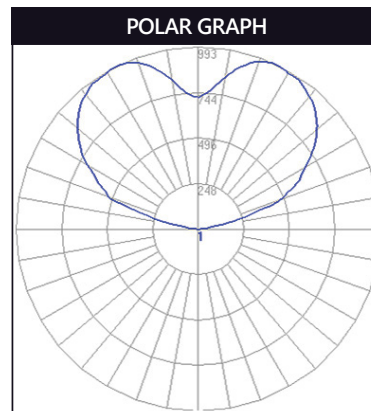
- Corner (L9) option, use LALS24 (24) or LALS44 (44) only from the Product Column in table above.

UP ONLY - BATWING

LALS-4-4-A-0-BW-07-XX-XX-XXX-XX-XX-WHITE-XX

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	0
10-20°	0
20-30°	0
30-40°	0
40-50°	0
50-60°	0
60-70°	0
70-80°	0
80-90°	0
90-100°	57
100-110°	255
110-120°	414
120-130°	493
130-140°	506
140-150°	451
150-160°	345
160-170°	207
170-180°	66

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-30°	0	0
0-60°	0	0
0-90°	0	0
90-120°	726	26
90-150°	2176	78
90-180°	2800	100.0
0-180°	2800	100.0



For more information please see IES files at LED.com

Performance

LALS2 Down Light*

Product Width & Length	CAT Logic	Lm/ft	Nominal Lumen	4000K TriGain* Wattage	3500K TriGain* Wattage	3000K Standard Wattage
22	08	800	1600	16.7	17.2	18.2
22	09	900	1800	18.9	19.7	20.4
22	10	1000	2000	21.2	22.0	23.0
24	04	400	1600	15.1	15.6	16.4
24	05	500	2000	19.2	19.7	20.8
24	06	600	2400	23.1	23.8	25.1
24	07	700	2800	27.1	27.9	29.4
24	08	800	3200	31.2	32.3	33.8
24	09	900	3600	35.3	36.6	38.4
24	10	1000	4000	40.5	41.8	43.9
25	04	400	2000	18.8	19.3	20.2
25	05	500	2500	23.4	24.2	25.4
25	06	600	3000	28.3	29.3	30.8
25	07	700	3500	33.5	34.5	36.2
25	08	800	4000	38.7	39.9	41.8
25	09	900	4500	44.0	45.3	47.7
25	10	1000	5000	47.2	48.7	49.4
26	04	400	2400	22.7	23.5	24.7
26	05	500	3000	28.7	29.8	31.3
26	06	600	3600	35.0	36.1	37.8
26	07	700	4200	41.4	42.6	44.6
26	08	800	4800	47.7	49.2	51.7
26	09	900	5400	54.5	56.0	58.8
26	10	1000	6000	61.0	63.0	66.1
28	04	400	3200	29.3	30.2	31.6
28	05	500	4000	36.7	37.7	39.6
28	06	600	4800	44.4	46.0	48.3
28	07	700	5600	52.8	54.7	57.7
28	08	800	6400	60.9	63.0	66.4
28	09	900	7200	69.8	72.1	75.8
28	10	1000	8000	75.0	77.6	77.9

LALS4 Down Light*

Product Width & Length	CAT Logic	Lm/ft	Nominal Lumen	4000K TriGain* Wattage	3500K TriGain* Wattage	3000K Standard Wattage
42	08	800	1600	15.2	15.7	16.4
42	09	900	1800	17.4	17.9	18.7
42	10	1000	2000	19.4	19.9	21.0
44	04	400	1600	14.9	14.9	14.9
44	05	500	2000	17.4	17.9	18.7
44	06	600	2400	21.0	21.8	22.8
44	07	700	2800	24.6	25.4	26.6
44	08	800	3200	28.4	29.4	30.7
44	09	900	3600	32.3	33.3	34.8
44	10	1000	4000	36.9	37.9	39.7
45	04	400	2000	17.1	17.6	18.5
45	05	500	2500	21.5	22.0	23.2
45	06	600	3000	25.9	26.6	28.1
45	07	700	3500	30.6	31.5	33.0
45	08	800	4000	35.2	36.2	38.2
45	09	900	4500	40.1	41.3	43.3
45	10	1000	5000	45.0	46.5	48.7
46	04	400	2400	20.7	21.3	22.4
46	05	500	3000	26.2	27.0	28.3
46	06	600	3600	31.8	32.8	34.4
46	07	700	4200	37.5	38.7	40.6
46	08	800	4800	43.4	44.8	47.0
46	09	900	5400	49.4	51.0	53.5
46	10	1000	6000	55.6	57.3	60.2
48	04	400	3200	26.7	27.4	28.8
48	05	500	4000	33.3	34.3	35.9
48	06	600	4800	40.4	41.6	43.7
48	07	700	5600	47.8	49.4	52.0
48	08	800	6400	55.3	57.1	60.2
48	09	900	7200	63.3	65.1	68.5
48	10	1000	8000	71.3	73.7	77.6

***NOTE:** - Total fixture performance is the summation of both the Down and Up wattages and nominal lumens.

- Corner (L9) option, use LALS24 (24) or LALS44 (44) only from the Product Column in table above.

- Glow (GL) Option is 5% less lumens than values shown above.

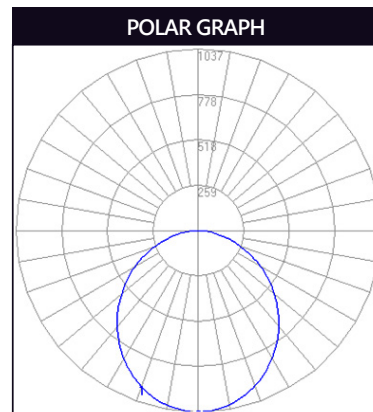
- Wall Wash (WW) Option is 7% more lumens than values shown above.

DOWN ONLY - MEDIUM FLUSH LENS

LALS-4-4-A-0-NA-00-MM-07-XXX-XX-XX-WHTE-XX

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	100
10-20°	283
20-30°	420
30-40°	493
40-50°	497
50-60°	438
60-70°	328
70-80°	186
80-90°	49
90-100°	0
100-110°	0
110-120°	0
120-130°	0
130-140°	0
140-150°	0
150-160°	0
160-170°	0
170-180°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-30°	804	29
0-60°	2233	80
0-90°	2800	100
90-120°	0	0
90-130°	0	0
90-150°	0	0
90-180°	0	0
0-180°	2800	100.0



For more information please see IES files at LED.com

ALLUSION SERIES

Linear Suspended Slot

CUSTOMER NAME

Project Name _____

Date _____ Type _____

Catalog Number _____

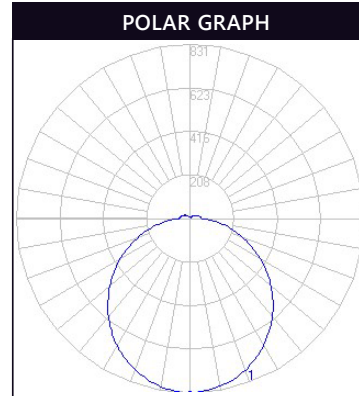
Photometrics

DOWN ONLY - GLOW LENS

LALX-4-4-A-0-NA-00-GL-07-XXX-XX-WHTE-XX

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	78
10-20°	224
20-30°	338
30-40°	408
40-50°	426
50-60°	393
60-70°	318
70-80°	213
80-90°	101

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-30°	640	24
0-60°	1867	70
0-90°	2499	94
90-120°	119	5
90-130°	140	5
90-150°	159	6
90-180°	161	6
0-180°	2660	100



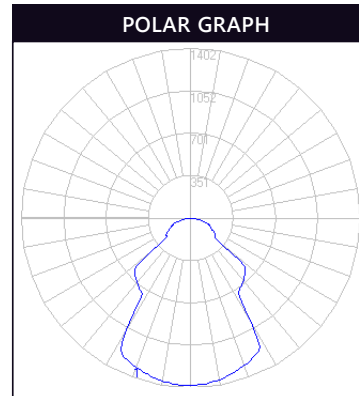
For more information please see IES files at LED.com

DOWN ONLY - WHITE LOUVERS (NO LENS)

LALS-4-4-A-0-NA-00-LW-07-XXX-XX-WHTE-XX

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	130
10-20°	369
20-30°	546
30-40°	562
40-50°	507
50-60°	345
60-70°	206
70-80°	108
80-90°	27
90-100°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-30°	1045	37
0-60°	2459	89
0-90°	2800	100
90-120°	0	0
90-130°	0	0
90-150°	0	0
90-180°	0	0
0-180°	2800	100



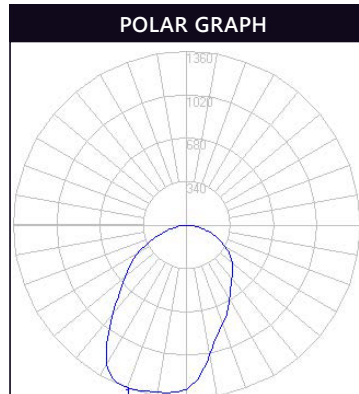
For more information please see IES files at LED.com

DOWN ONLY - WALL WASH

LALS-4-4-A-0-NA-00-WW-07-XXX-XX-WHTE-XX

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	120
10-20°	330
20-30°	485
30-40°	555
40-50°	532
50-60°	448
60-70°	320
70-80°	166
80-90°	40

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-30°	934	31
0-60°	2467	82
0-90°	2996	100
90-120°	0	0
90-130°	0	0
90-150°	0	0
90-180°	0	0
0-180°	2996	100



For more information please see IES files at LED.com

Controls & Sensors

DAINTREE CONTROLS

- **Daintree® Wireless Controls:**

There is no one size fits all for wireless controls. Some networks want simple solutions that reduce energy consumption and meet code compliance while others are more ambitious, looking to capitalize on the LED and controls savings to fund a scalable, enterprise-grade, internet of things solution. The advantage of the Daintree Wireless platform is its ability to integrate into indoor, outdoor and high bay environments. The Daintree Wireless Controls provide the infrastructure to future proof your buildings, easily upgrade to Networked solutions and provide the ability to integrate into IoT solutions that are right for your business.

- Daintree One: Standalone Wireless Controls
- Daintree EZ Connect: Room-Based Wireless Lighting Controls
- Daintree Networked: Networked Lighting Controls for Smart Building & IoT Enablement

Daintree Wireless Controls are already integrated in your favorite Current LED fixtures. Integrating the controls into the fixture cuts labor costs considerably since the sensors are already embedded in the lighting fixtures. There's no need to get above the ceiling plenum and install additional devices. Visit our website LED.com for a complete list of LED Fixtures that have Daintree integrated controls.

- **The LALS Series Architectural Luminaire will offer Daintree Networked integral controls (Controls option TQ). Integral sensors and IOT devices are not offered at this time.**

LUTRON CONTROLS

- **Lutron EcoSystem:** EcoSystem technology is a control method for LEDs that provides addressing of individual fixtures and status feedback from the LED drivers. This makes it easy to digitally assign occupancy sensors, daylight sensors, time clocks, manual controls and other controls to one or many fixtures without complicated wiring. This opens up an entire suite of energy-saving, system-monitoring and system-control schemes where the design, setup and rezoning are all done within software, making the electrical and control design simple.