

PROJECT: TYPE:

Features

MESA is a configurable trough housing unit that refines system functionality and the aesthetics of your ceiling. You select the mechanical, electrical, security or audio components you need. We then configure modules to beautifully integrate each component. Beautiful, sensible, clean and streamlined, MESA is easily serviced from below the ceiling. MESA. Systems, unified. Access, optimized. Looks, modernized.



Product Overview

Type: Recessed (Gyp or Grid)

Modules: Linear Ambient, Point source, HVAO, Sprinkler, Speaker, Camera, Sensor

and Duplex Receptacle

Color Temp: 2700K, 3000K, 3500K, 4000K

CRI: 83 typ. or 90+ typ.

Dimming: TRIAC & ELV, 5% Dim, 120/277VAC

Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120/277VAC

0-10V, 1% Dim, 120/277VAC DALI, 1% Dim, 120/277VAC

Certifications (for Light Modules)





Fixture Summary

Performance Data

	PSLMxx-HHP										
Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI							
11	1030	93.7	8243	3000K-83							
16	1451	90.7	11,610	3000K-83							
18	1640	91.1	13,119	3000K-83							

Data is based on 3000K-83120V IES files available on website.

Data is per head and based on Spot optic. See pg 7 for other beam spreads.

	LALM		
Watts per Foot	Delivered Lumens	LPW	Color Temp-CRI
5	2077	103.4	3500K-83
10	3671	96.7	3500K-83

Data is based on 3000K-83120V IES files available on website. Data is based on 4' fixture with Designer Lens.

Electrical Data

	PSLMxx-HHP										
	11W 16W 18W										
Voltage	System Watts Amps		System Watts	Amps	System Watts	Amps					
120V	11	0.09	16	0.13	18	0.15					
277V	11	0.04	16	0.06	18	0.07					

Electronic constant current LED driver. Data per head.

	LALN	1	
		4'	
Wattage per Foot	Voltage	System Watts	Amps
5	120V	22.3	0.18
0	277V	22.9	0.09
10	120V	42.1	0.30
IU	277V	41.5	0.15

Electronic multi-volt (120V-277V), constant current LED driver.





PROJECT: TYPE:

STEP 1: Ordering Information - Housing

	1	2	3	4			5 6	7		8 9
1	Model					2	Run Length		3	Configuration
	MESA-HSG-G	B ME	SA housing,	gyp board			(s _t	pecify)		IND individual fixture, 2' to 8' in 1' increments
	MESA-HSG-GRID MESA housing, grid ceiling									CON continuous run > than 8', specify to nearest foot
										CUS custom made to measure, +/- 1/8" of customer supplied field dimensions
										PAT pattern, consult factory
		_				_				
4	Voltage	5	Finish		6	Facer	olate (finish match	nes fixture fin	ish)	
	120		$\mathbf{MB} \ \mathrm{matte}$	black		PERF	perforated stee	el panel		
	120/277					SOLII	D solid steel par	iel		

STEP 2: Ordering Information - Point Source Light Module (PSLMxx-HHP)

		·		•—				·		·			
	1		2 3		4	1	5	6	7	8	9		
1	Quant	tity		2	Mode	el 3							Wattage
		(spe	ecify quantity)		PSLN	/11-HHF	point sou	urce 1 head adjustabl	e light mod	lule, 6"			11
					PSLN	.M2-HHP point source 2 head adjustable light module, 12"						16	
	PSL						IIPD-HHP point source 1 head pull-down adjustable light module, 6"						
4	Beam Spread 5						Temp						
	1LT	2LT				83 CF	•	90+ CRI					
	SP	SP	(spot 15°)			27 27	00K-83	229* 2200K-90+	CRISP*	CrispWhite			
	NF	NF	NF (narrow flood 22°)			30 30	000K-83	279 2700K-90+	3CLA* 3	K Class A			
	MFL	MFL	(medium flood 25°)		35 38	5 3500K-83 309 3000K-90+							
	FL	FL	(flood 28°)			40 4	40 4000K-83 359 3500K-90+						
	WF	WF	(wide flood 45°)			409 4000K-90+							
	VWF	VWF	(very wide flood 60)°)		†Not available for 18W							
	LS	LS	(linear spread 60°x	10°)									
8	Driver	r (for nor	n-dimming select LE/	TF o	ntion)	9	Ontions	'Accessories					
			D/ELV dimming	1 2 0	361011)			noot accessory holde	er 1" length	matte black	interior ext	erior	finish
	HILUN	ИЕ-Н-Е	CO - Lutron LDE1	Hi-lu	me®			fixture finish, accept	,		•		
	1% din	n Soft-C	n/Fade-to-Black				AH accessory holder, finish matches fixture finish, accepts 2 forms of media						
	0-10V	0-10V	dimming, 1% dim				HEX hexcell louver, 1/8" x1/8" (requires SNAH or AH)						
	DALI	DALI di	mming, 1% dim				CB cross blade, matte black finish (requires SNAH)						
							SOL soli	te beam softening le	ns (requires	SNAH or AH)			

NOTE: Final nomenclature for ordering purposes to be determined after reception and review of the ceiling plans.







PROJECT: TYPE:

STEP 3: Ordering Information - Linear Ambient Light Module (LALM)

. LALM	·_ 	5	6	. 7	·	8		
1 Quantity	2	Model			3	Optics		
(specify quantity)		LALM linea	r amb	pient light module		DL designer	r lens	
						PL perform	ance lens	
4 Wattage (per foot)	5	Color Tem	пр		6	Length		
3* 3W/ft		83 CRI		90+ CRI		2 2'		
4* 4W/ft		27 2700K	-83	279 2700K-90+		3 3'		
5 5W/ft		30 3000k	(-83	309 3000K-90+		4 4'		
6 6W/ft		35 3500K	83	359 3500K-90+				
7 7W/ft		40 4000h	<-83	409 4000K-90+				
8 8W/ft								
9 9W/ft								
10 10W/ft								
*4' minimum length required								
7 Driver		8	Opt	ions/Accessories				
0-10V 0-10V dimming, 1% dim			EMO	C-PF emergency circ	uit rec	uires power f	eed located in I	ast fixture s
HILUME-H-ECO - Lutron LDE1	Hi-lun	ne®	(for a	other locations consult fa	actory)			
1% dim Soft-On/Fade-to-Black			EME	B emergency battery	pack	(not available fo	or lengths under 4	!')

STEP 4: Ordering Information - Accessory Module

DALI DALI dimming, 1% dim

	1 2						
1	Quantity	2	Model				
	(specify quantity)		SPR sprinkler module, 6"				
			HVAC HVAC module, 18"/24"/36"/48"				
		SPK speaker module, 6"					
			CAM camera module, 6"				
			MS motion sensor module, 6"				
			DPX duplex receptacle module, 6"				
			AMBC general accessory mounting bracket/cover, 6"				
			BL blank module (specify length)				

NOTE: Final nomenclature for ordering purposes to be determined after reception and review of the ceiling plans.







PROJECT: TYPE:

Specifications - MESA Housing

Application

Complete system of mechanical, electrical, security and audio components combined in one fixture for retail, commercial and hospitality environments.

Construction

Extruded aluminum & heavy gauge steel frame.

Electrical

120/277VAC input.

Finish

White Texture, Black Texture or Matte Black finishes.

Mounting

Housing mounted in gypsum board or grid ceilings (9/16" Tee or Slot Grid, or 15/16" Tee Grid)

Installation and ceiling trim spackled by installing contractor.

Certifications

Indoor use only.

Light and Other Modules

Accepts a variety of Amerlux lighting modules and other accessory modules (ie. duplex, camera, sensor, hvac, etc.), See pages 7-9.

HVAC module is compatible with the following Titus part numbers: TITUS 18" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-18-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-18-2-XX-2B-BLACK-0-0-0

TITUS 24" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-24-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-24-2-XX-2B-BLACK-0-0-0

TITUS 36" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-36-2HP-08-2B-BLACK-0-XX-0
- PLENUM BOX: MPI38-36-2HP-10-2B-BLACK-0-XX-0
- DIFFUSER: ML38-36-2-XX-2B-BLACK-0-0-0

Consult factory for any other compatibility.

Specifications - Point Source Light Module (PSLMxx-HHP)

Application

Lighting module for MESA system of mechanical, electrical, security and audio components combined in one fixture for retail, commercial and hospitality environments

Construction

Thermally protected (adds 2W to total fixture wattage)

Steel driver housing

Steel upper housing and laser cut trim ring

Complete die-cast optical head construction

No exposed wiring

Optical

Tilt: 0-180° (pull-down module); Rotation: 120° (pull-down module) Beam Spreads: Spot 15°; Narrow Flood 22°; Medium Flood 25°; Flood 28°; Wide Flood 45°; Very Wide Flood 60°; Linear Spread 60°x10°

LED

Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K

CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)

90+ typ. (2200K, 2700K, 3000K, 3500K, 4000K)

CrispWhite* LED available, 16W max

Class A** 3000K (high CRI, high gamut) available

R9 Values: 11 (83 CRI), 55 (92 CRI) Binning: 3 MacAdam (SDCM)

Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

- * CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.
- ** Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.

Electrical

Wattage: 11W, 16W, 18W

Electronic constant current LED driver, 120/277VAC input

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Drivers

LE/TE - Leading Edge, TRIAC, forward phase/Trailing Edge, ELV, reverse phase

0-10V, Lutron and DALI systems also available See pages 13-14 for more dimming information

Finish

Powder coat paint

Consult Factory for custom finishes

Certifications

CSA listed to UL standards. Suitable for damp locations Indoor use only

Warranty

5 year limited warranty







PROJECT: TYPE:

Specifications - Linear Ambient Light Module (LALM)

Application

Lighting module for MESA system of mechanical, electrical, security and audio components combined in one fixture for retail, commercial and hospitality environments.

Construction

Heavy gauge steel upper housing is secured to aluminum extruded trim rails. Die-formed, cold-rolled steel internal components and external mounting brackets.

Optical

All lenses are lay-in, extruded acrylic. Amerlux's proprietary acrylic lens provide excellent transmission while effectively concealing source image.

DL - Designer Lens provides flat even glow on lens. Best when lens is in direct or constant view.

 $\ensuremath{\text{PL}}$ - Performance Lens provides high efficiency with some control and brightness.

LED

Amerlux's boards and patented connector design with brand name LEDs enables Amerlux fixtures to have excellent thermal management and offer a 5 year warranty. Our LED binning is within 3 MacAdam ellipse. Boards are configured for maximum flexibility resulting in even illumination no matter the fixture layout. LED boards are easily replaced in the field with just a Phillips screw driver.

Color Temperature Options: 2700K, 3000K, 3500K, 4000K

CRI: 83 typical, 92 optional - consult factory

R9: 16 @ CRI 83

R9: >50 @ CRI 92

Life: 50,000+ hr., > 70% of initial lumens (L70)

Electrical

Wiring: Supply wires are easily accessible through access plate on top of fixture.

Wattage: 3W/ft, 4W/ft, 5W/ft, 10W/ft, 6W/ft, 7W/ft, 8W/ft, 9W/ft, 10W/ft (3W & 4W have a minimum length of 4'). For other wattages consult factory.

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Drivers

0-10V - 1% electronic dimming , multi-volt (120-277VAC) constant current driver (standard). Cap leads for non-dim applications.

Optional Drivers:

HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black **DALI** - DALI Dimming 120-277VAC, 1% dim

Finish

Baked on finish for maximum durability and color stability. White Texture, Black Texture and Matte Black available.

Lengths

2, 3, and 4 foot lengths available.

Mounting

Gypsum board or Grid Ceiling mounting. 9/16" and 15/16" Tee Grid or 9/16" Slot Grid.

Certifications

Approved to UL standards for damp locations as tested by CSA. Intended for indoor use only.

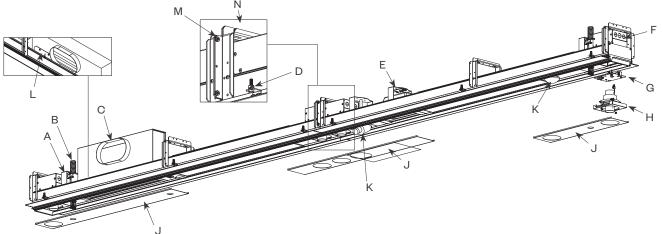
Warranty

Amerlux's 5 year limited warranty. Please consult Amerlux website for details.



PROJECT: TYPE:

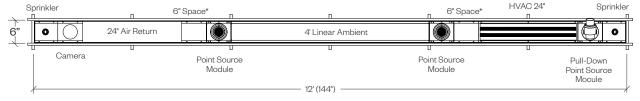
Product Details





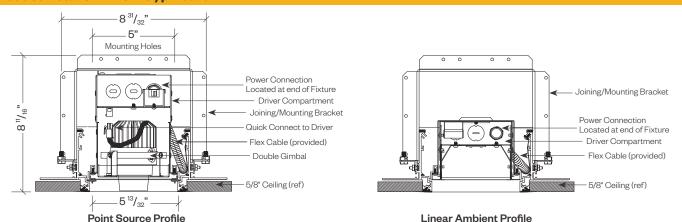
	•		
Α	Sprinkler Module Bracket	Н	Removable Lamp Assembly for access to driver
В	Ø1-% "Sprinkler Pipe (ref), Installed by others	J	Decorative Fascia (see Detail A)
С	2' HVAC Plenum Box (by others). Reversible left or right orientation	K	Optional Camera/Motion Sensor Installed/Wired (by others)
D	Optional Sliding Mounting Bracket	L	HVAC Mounting Plate
Е	Speaker (Installed/Wired by others)	М	Joining/Mounting Bracket
F	Electrical Feed	N	1/4-20 Running Thread (by others)
G	Removable Driver Plate for ease of service		

Example Pattern



^{* 6&}quot; Space can be utilized by the following accessories: Camera, Speaker, Motion Sensor, or Duplex.

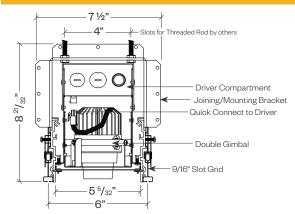
Product Details - MESA Gyp Board

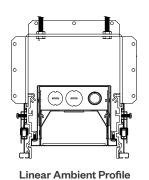




PROJECT: TYPE:

Product Details - MESA Grid



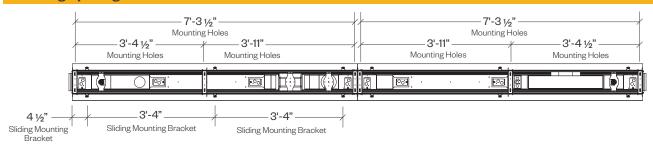




Note: Fixture MUST be suspended from structure due to weight. Fixture is too heavy to rest on grid.

Point Source Profile

Mounting Spacing



Decorative Fascia





Solid Steel Panel

Note: HVAC & Speakers have option for PERF to be placed over top (39% of area is open with PERF design), or out-out for those sections

Accessories - Point Source (diagrams show installation order)





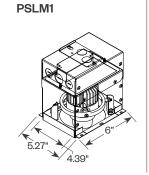
Hexcell Louver, Solite Lens

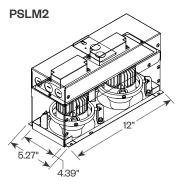


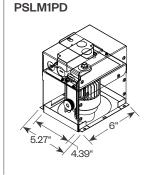


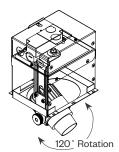
Snoot Accessory Holder, Cross Blade, Hexcell Louver, Solite Lens

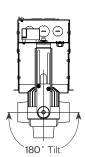
Point Source Light Modules



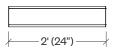


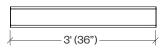


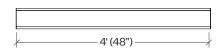




Linear Ambient Light Module Lengths



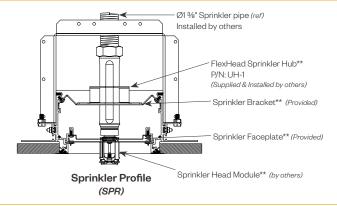


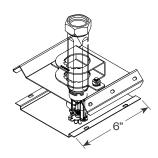


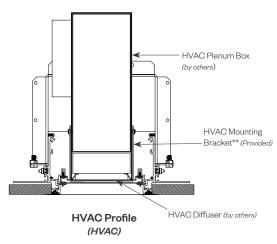


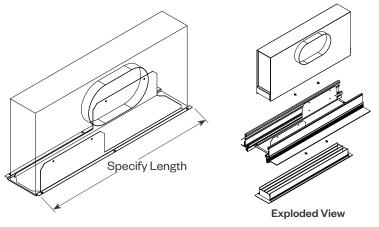
PROJECT: TYPE:

Accessory Modules









 $\label{thm:compatible} \mbox{HVAC module is compatible with the following Titus part numbers:}$

TITUS 18" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-18-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-18-2-XX-2B-BLACK-0-0-0

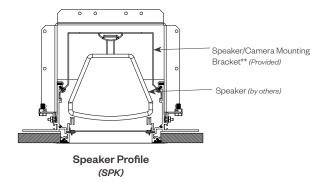
TITUS 24" AIR HANDLING ASSEMBLY

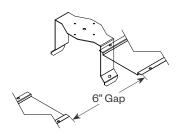
- PLENUM BOX: MPI38-24-2HP-08-2B-BLACK-0-XX-0
- DIFFUSER: ML38-24-2-XX-2B-BLACK-0-0-0

TITUS 36" AIR HANDLING ASSEMBLY

- PLENUM BOX: MPI38-36-2HP-08-2B-BLACK-0-XX-0
- PLENUM BOX: MPI38-36-2HP-10-2B-BLACK-0-XX-0
- DIFFUSER: ML38-36-2-XX-2B-BLACK-0-0-0

Consult factory for any other compatibility.



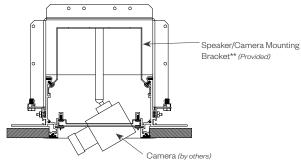


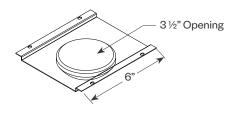
^{**}All accessory mounting brackets are supplied for the installers convenience. It is the architects/contractors responsibility to make sure that all accessory brackets meet their respective codes and are installed in accordance with all local, fire and building codes.



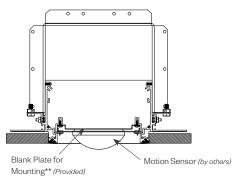
PROJECT: TYPE:

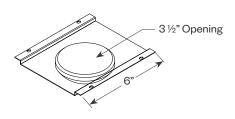
Accessory Modules (continued)



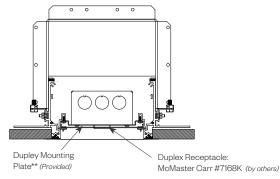


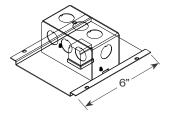
Camera Profile (CAM)





Motion Sensor Profile (MS)



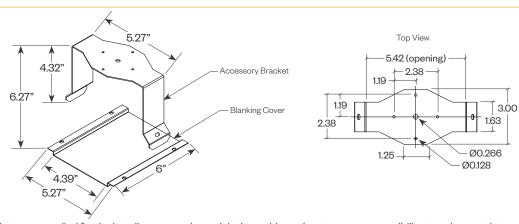




Underside View

Duplex Profile (DPX)

Accessory Mounting Bracket/Cover Profile (AMBC)



^{**}All accessory mounting brackets are supplied for the installers convenience. It is the architects/contractors responsibility to make sure that all accessory brackets meet their respective codes and are installed in accordance with all local, fire and building codes.



PROJECT: TYPE:

Performance Data - Point Source Light Module (PSLMxx-HHP)

Multiplying Factors: (Multiplying Factor is based on 3000K-83120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

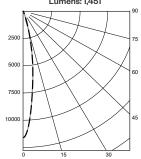
Wattage:	11W	16W	18W
Factor:	0.71	1.0	1.13

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP*	3CLA*
Factor	0.71	0.80	0.83	0.87	0.90	0.65	0.70

* Not available for use with 18W

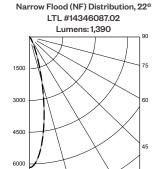
16W LED, 3000K-83





Candelas at Nadir

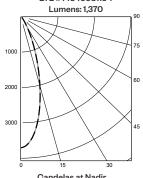
Deg	Candela
0	11610
5	8378
15	1825
25	257
35	86
45	31



Candelas at Nadir eg Candela

	Odridold
0	6167
5	5391
15	2012
25	426
35	119
45	52

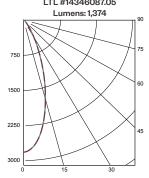
Flood (FL) Distribution, 28° LTL #14346087.04



Candelas at Nadir

Deg	Carideia	
0	3703	
5	3440	
15	1925	
25	651	
35	179	
45	67	

Wide Flood (WF) Distribution, 40° LTL #14346087.05



Candelas at Nadir						
Deg	Candela					
0	2820					
5	2674					
15	1750					
25	763					
35	248					
45	86					

Application Data - Point Source Light Module (PSLMxx-HHP)

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

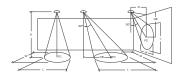
D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

 $\textbf{L} = \textit{Effective Visual Beam length in feet (50\% of \textit{maximum footcandle level)}}.$

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

CB=Distance across or down to center beam location.



	\triangle	c }	° Aiming Horizor Footcan	ntal	30°		Ho	ming A prizonta tcandle	ıl	30°		\	iming A Vertical otcandl		60°	No.		Aiming Vertica ootcand	ıl
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	463	1.4	1.4	5.0'	213	2.3	2.2	3.0	3.0'	135	3.4	2.2	5.0	3.0'	403	1.8	1.6	2.0
Spot	7.5'	206	2.1	2.1	7.5'	110	3.3	2.9	4.0	4.0'	87	4.2	2.6	6.0	4.0'	295	2.1	1.8	2.0
S	10.0'	116	2.9	2.9	10.0'	64	4.3	3.7	5.0	5.0'	58	5.2	3.2	8.0	5.0'	205	2.5	2.2	3.0
	12.5'	74	3.6	3.6	12.5'	44	5.1	4.5	7.0	6.0'	42	6.2	3.6	9.0	6.0'	152	2.8	2.5	3.0
0	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
Flood	5.0'	247	1.9	1.9	5.0'	133	2.9	2.7	3.0	3.0'	97	3.7	2.4	4.0	3.0'	280	2.1	1.8	2.0
≥	7.5'	110	3.0	3.0	7.5'	67	4.0	3.6	4.0	4.0'	57	4.8	3.1	5.0	4.0'	201	2.4	2.2	2.0
Narrow	10.0'	62	3.9	3.9	10.0'	40	5.2	4.6	5.0	5.0'	39	5.7	3.6	7.0	5.0'	131	3.0	2.7	3.0
Na	12.5'	40	5.0	5.0	12.5'	26	6.4	5.7	6.0	6.0'	28	6.9	4.3	8.0	6.0'	99	3.4	3.0	3.0
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
-	5.0'	168	2.5	2.5	5.0'	86	3.6	3.2	2.0	3.0'	70	3.9	2.9	4.0	3.0'	194	2.4	2.2	2.0
Flood	7.5'	72	3.7	3.7	7.5'	42	5.0	4.6	4.0	4.0'	43	5.1	3.5	5.0	4.0'	138	2.8	2.7	2.0
ᇤ	10.0'	40	5.0	5.0	10.0'	25	6.5	5.9	5.0	5.0'	28	6.2	4.4	6.0	5.0'	87	3.6	3.2	2.0
	12.5'	25	6.3	6.3	12.5'	16	8.2	7.4	6.0	6.0'	20	7.5	5.2	7.0	6.0'	65	4.0	3.7	3.0
_	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
Wide Flood	5.0'	113	3.0	3.0	5.0'	71	3.9	3.5	2.0	3.0'	60	4.1	3.1	3.0	3.0'	156	2.7	2.5	2.0
Ĕ	7.5'	50	4.5	4.5	7.5'	34	5.5	5.1	3.0	4.0'	36	5.3	3.9	4.0	4.0'	110	3.1	3.0	2.0
jde	10.0'	28	6.0	6.0	10.0'	19	7.4	6.8	5.0	5.0'	24	6.4	4.8	5.0	5.0'	72	3.9	3.5	2.0
>	12.5'	18	7.5	7.5	12.5'	13	9.1	8.4	6.0	6.0'	17	7.7	5.7	7.0	6.0'	52	4.5	4.2	3.0





PROJECT: TYPE:

Performance Data - Linear Ambient Light Module (LALM)

Multiplying Factors: (Multiplying Factor is based on 3000K-83120V IES file on website)

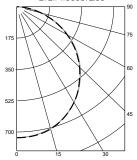
Wattage:	3W	4W	5W	6W	7W	8W	9W
Factor:	0.63	0.82	1.0	1.17	1.34	1.50	1.64

CCT: 2700K-83 3000K-83 3500K-83 4000K-83 Factor: 0.87 0.93 1.0 1.08

6" DESIGNER LENS 5W 3500K 4FT

Total Watts: 20 Total Lumens: 2,077 Source: 120 White LED's

LTL# 11665872.33



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	931	44.8
0-60	1636	78.8
0-90	2077	100.0
90-180	0	00

Luminaire Efficacy = 103.4 lm/w

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

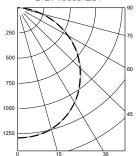
RC		8	0	
RW	70	50	30	10
RCR				
0	2415	2415	2415	2415
1	2201	2110	2028	1954
2	1997	1839	1708	1596
3	1817	1616	1457	1330
4	1663	1432	1261	1128
5	1529	1281	1104	972
6	1412	1154	977	849
7	1310	1047	874	750
8	1221	957	787	669
9	1141	879	715	603
10	1071	812	653	546

Note: Values expressed as Lumens delivered to the task surface.

6" DESIGNER LENS 10W 3500K 4FT

Total Watts: 38 Total Lumens: 3,671 Source: 120 White LED's

LTL# 11665872.34



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1641	44.7
0-60	2888	78.7
0-90	3671	100.0
90-180	0	0.0

Luminaire Efficacy = 96.7 lm/w

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC		8	0		
RW	70	50	30	10	
RCR					_
0	4268	4268	4268	4268	
1	3888	3728	3584	3453	
2	3527	3249	3017	2819	
3	3211	2854	2573	2348	
4	2937	2529	2226	1991	
5	2701	2262	1949	1716	
6	2495	2038	1725	1498	
7	2314	1849	1542	1324	
8	2156	1689	1389	1181	
9	2016	1551	1261	1063	
10	1892	1433	1153	964	

Note: Values expressed as Lumens delivered to the task surface.



4000K-83

PROJECT: TYPE:

Performance Data - Linear Ambient Light Module (LALM) (continued)

Multiplying Factors: (Multiplying Factor is based on 3000K-83120V IES file on website)

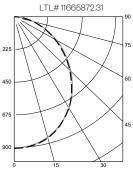
Wattage:	3W	4W	5W	6W	7W	8W	9W
Factor:	0.63	0.82	1.0	1.17	1.34	1.50	1.64

3000K-83 1.0 1.08 0.87 Factor: 0.93

3500K-83

6" PERFORMANCE LENS 5W 3500K 4FT

Total Watts: 20 Total Lumens: 2,304 Source: 120 White LED's



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1105	48.0
0-60	1865	80.9
0-90	2304	100.0
00.100	0	00

Luminaire Efficacy = 114.7 lm/w

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC		. 8	0	
RW	70	50	30	10
RCR				
0	2679	2679	2679	2679
1	2450	2354	2266	2187
2	2232	2064	1923	1803
3	2039	1822	1652	1515
4	1871	1622	1437	1294
5	1724	1456	1265	1122
6	1596	1316	1125	986
7	1483	1197	1009	875
8	1383	1096	912	784
9	1295	1009	830	708
10	1216	933	760	644

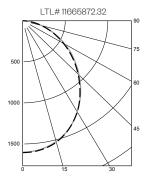
Note: Values expressed as Lumens delivered to the task surface.

6" PERFORMANCE LENS 10W 3500K 4FT

2700K-83

Total Watts: 38 Total Lumens: 4,079 Source: 120 White LED's

CCT:



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	1956	48.0
0-60	3299	80.9
0-90	4079	100.0
90-180	0	0.0

Luminaire Efficacy = 107.5 lm/w

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 20%

RC	80				
RW	70	50	30	10	
RCR					
0	4743	4743	4743	4743	
1	4338	4167	40412	3872	
2	3952	3653	3404	3192	
3	3609	3225	2924	2681	
4	3312	2872	2544	2291	
5	3052	2577	2239	1987	
6	2825	2330	1991	1745	
7	2625	2120	1786	1549	
8	2449	1940	1614	1388	
9	2292	1786	1470	1253	
10	2153	1652	1346	1140	

Note: Values expressed as Lumens delivered to the task surface.





PROJECT: TYPE:

Dimming Compatibility

Amerlux® MESA fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc.) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC (Forward Phase) Dimming

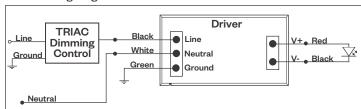
 $\label{thm:continuous} \mbox{Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.}$

Notes

- 120VAC or 277VAC*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers [†] :					
Wall Box (TRIAC 120VAC)	Central System				
Lutron "Diva"	Lutron "GP" Panel				
Lutron "Nova-T"	Lutron Grafik Eye QS				
Lutron "Maestro"					
Lutron "Skylark"					

TRIAC Wiring Diagram



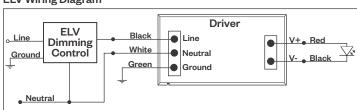
ELV - Electronic Low Voltage (Reverse Phase) Dimming

Utilizes specialized "ELV" dimmers.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

ELV Wiring Diagram



Compatible Dimmers [†] :					
Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System			
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC			
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC			
Lutron "Maestro"					
Lutron "Skylark"					
Leviton "Surslide"					
Leviton "Vizio"					

Notes:

- * Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.
- † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.



PROJECT: TYPE:

Dimming Compatibility (continued)

Amerlux® MESA fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc.) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

0-10V Dimming

Integrates into a variety of building management and daylighting controls

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- · Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions DO NOT SHARE NEUTRALS!

0-10V Wiri	ing Diagr	am			
			Driver		
	0-10V	Gray	0-10V (-)		
	imming	Purple	0-10V (+)		V+ Red
Ground	Control	Black	Switched Hot		
Ť		White	Neutral	•	V- Black
		Green	Ground		
Neutral			Jarouna		

Compatible Dimmers [†] :				
Wall Box		Central System		
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface		

Lutron LDE1 Dimming

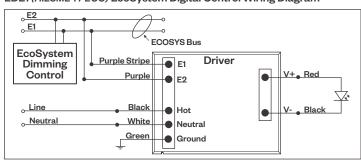
Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- · Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

Compatible Dimmers [†] :				
Lutron ECO System	Central System			
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls			
Energi Savr Node				
Grafik Eye QS/Homeworks				
QS Control Unit				
Quantum Hub				
Homeworks QS/My Room				

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



DALI Dimming

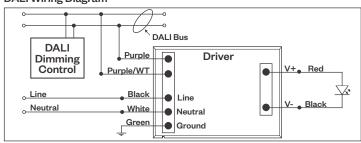
Digital control protocol allows individual fixture control

Notes:

- 120VAC 277VAC*
- Dims down to 1% light output in most cases

Compatible Dimmers†:				
Wall Box (3-Wire Fluorescent)	Central System			
Leviton CD250 Controller	Dynalite			
	Fifth Light			

DALI Wiring Diagram



Notes:

- * Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.
- † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.