Semi-Recessed Multiples

PROJECT:



TYPE:

Features

Cylindrix[®] III Recessed LED, the best combination of optical and thermal performance, aesthetics and visual comfort in an recessed accent. Features a deeply recessed single LED light source for enhanced visual comfort and control, integrated heat sink and high performance interchangeable reflector optics (*for 15°/25°/40° beam spreads only*). A 10° beam spread is also available but not interchangeable with the other beam options. Available in 1, 2 or 3 light configurations.



Product Overview

Type:	Semi-Recessed Multiple, Accent & Display
Wattage:	16W, 19W, 23W, 27W, 31W
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ.
	CrispWhite & Class A LEDs available
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



Fixture Summary

Fixture	Туре
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# of Heads	New Construction	Remodeler	Trim	Trimless
1	Yes	No	Yes	No
2	Yes	No	Yes	No
3	Yes	No	Yes	No

See seperate spec sheet for Recessed version.

Performance Data

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
16	1,700	106.3	6,921	3000K-83
19	2,018	119.3	8,332	3000K-83
23	2,440	106.1	9,934	3000K-83
27	2,880	106.7	11,726	3000K-83
31	3306	100.4	13,460	3000K-83

Data is based on 3000K-83 120V IES files available on website.

Data is "per head" and based on Flood Optic. See pg 6 for other beam spreads.



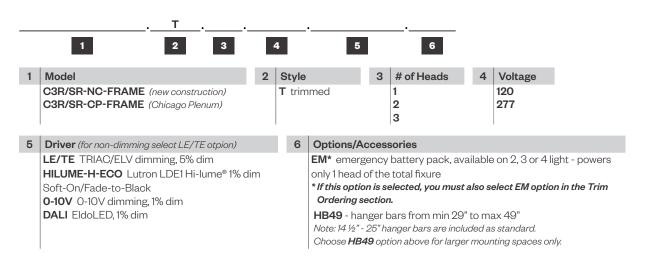
Semi-Recessed Multiples

PROJECT:



TYPE:

Ordering Information - Frame



Ordering Information - Trim

	1		2			<u>120-2</u>	77	7		8	•	9 10		
1	1 C3SR-NC-TI C3SR-CP-TR		I (new co		,	5 6 Style T - trimmed	3	7 # of Heads 1 2 3	4	8 Wattage 16 19 23 27 31	5	9 To Finish (for housing, head & trim) WT white texture BT black texture ST silver texture Other finishes, consult factory		
6	Voltage	7	Beam	Spread				8	Color	r Temp				
	120-2771LT2LT3LTNSP*NSP*NSP*(narrow spot, (spot, 15°)SPSPSP(spot, 15°)FLFLFL(flood 25°)WFWFWF(wide flood 44)LSLSLS(linear spread)*Based on availability, lead times may vary							30 3000K-83 309 3000K-90+ 3CLA ⁺ 3000K Class 35 3500K-83 359 3500K-90+ 40 4000K-83 409 4000K-90+ 1000K Class 1000K Clas 1000K Clas 1000K Clas						
9	Driver (for nor	n-d	imming s	elect LE/7	E otpion)	10	Optio	ons/Accessorie	es					
	Driver (for non-dimming select LE/TE otpion) 14 LE/TE TRIAC/ELV dimming, 5% dim HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black 0-10V 0-10V dimming; 1% dim DALI EldoLED; 1% dim							 Options/Accessories (standard front door accepts up to 1 accessory) SN34 snoot 3/4" length, exterior finish matches fixture finish; accepts up to 2 accessories SN15 snoot 1-1/2" length, exterior finish matches fixture finish; accepts up to 2 accessories HEX hexcell louver CB cross blade, matte black finish (requires snoot) CL clear glass lens SOL solite beam softening lens EM* emergency battery pack, available on 2, 3 or 4 light - powers only 1 head of the total fixure * If this option is selected, you must also select EM option in the Frame 						



Semi-Recessed Multiples

PROJECT:

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TYPE:

Specifications

Application

Retail and commercial accent and display lighting

Construction

Formed steel mounting frame with integral mounting bars 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 Passive cooled

Optical

Tilt: 0-45°x45° Rotation: 360°+ Beam Spreads: Narrow Spot, 10°; Spot, 15°; Flood, 25°; Wide Flood, 40°; Linear Spread Lens, 60° x 10°

LED

Color Temp Options: 2700K, 3000K, 3500K, 4000K, CRISP, Class A CRI: 83 typ. or 90+ typ.

CrispWhite* and Class A** LEDs available

R9 Values: 11 (83 CRI), 55 (90+ 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: 16, 19, 23, 27, 31

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*) or Trailing Edge (*ELV, Reverse Phase*) autosensing driver dims down to 5% on most dimming systems. 0-10V, Lutron & DALI systems also available *See pages 8-10 for more dimming information*

Finish

Powder coat paint Consult Factory for custom finishes

Mounting

Hanger Bars:

Adjustable hanger bars included (14 ½" - 25" std.) Optional **HB49** - hanger bars from min 29" to max 49" available <u>Trimmed:</u> For use in T-Grid or GB ceilings; max ceiling thickness 1" <u>Trimless:</u>

For use in GB ceilings; max ceiling thickness 5/8" Consult Factory for thicker ceilings

Certifications

CSA listed to UL standards. Suitable for damp locations Indoor use only CCEA listed for use in Chicago *(specific models only)*

Warranty

5 year limited warranty

Emergency Battery Pack (EM)

Powers single head of 2, 3 or 4 light multiple at 5.1 watts (*approx. 400 Lm*) for 90 minutes. Not available on 1 light multiple



Semi-Recessed Multiples

PROJECT:

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TYPE:

Electrical Data

NOTE: System Watts includes an additional 2W for thermal protector power consumption.

1 Light

	1 x 16W		1 x 19W		1 x 23\	N	1 x 27W		1 x 31W		
Voltage	System Watts	Amps									
120V	18	0.15	21	0.18	25	0.21	29	0.24	33	0.28	
277V	18	0.06	21	0.08	25	0.09	29	0.10	33	0.12	

Electronic constant current LED driver

2 Light

	2 x 16W		2 x 19W		2 x 23	N	2 x 27W		2 x 31W		
Voltage	System Watts	Amps									
120V	36	0.30	42	0.35	50	0.42	58	0.48	66	0.55	
277V	36	0.13	42 0.15		50 0.18		58	0.21	66	0.24	

Electronic constant current LED driver

3 Light

	3 x 16W		3 x 19W		3 x 23\	N	3 x 27W		3 x 31W									
Voltage	System Watts Amps System Watts Am		System Watts Amps		stem Watts Amps System Watts Amps System		n Watts Amps System Watts Amps Sy		System Watts Amps System Watts Amps System		stem Watts Amps System Watts Amps Sys		System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	54	0.45	63	0.53	75	0.63	87	0.73	99	0.83								
277V	54	0.19	63	0.23	75	0.27	87	0.31	99	0.36								

Electronic constant current LED driver

Accessories



Clear lens, Solite lens, Hexcell louver (fits in front door)



Linear spread lens, Hexcell louver, Cross blade (requires snoot)





Snoot, 1½" deep



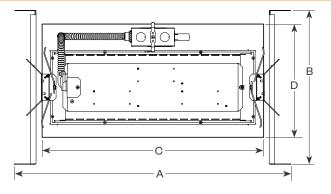
Semi-Recessed Multiples

PROJECT:

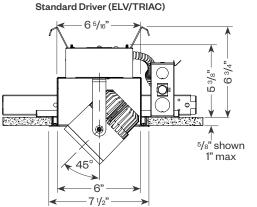


TYPE:

Product Details - Semi-Recessed Trimmed

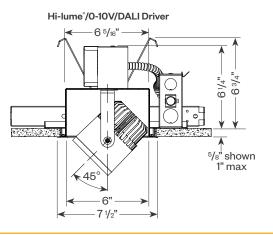


End View

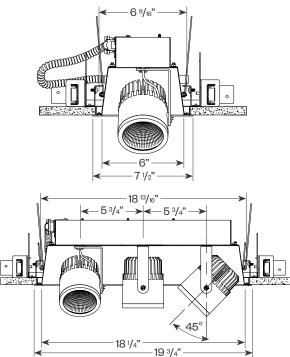


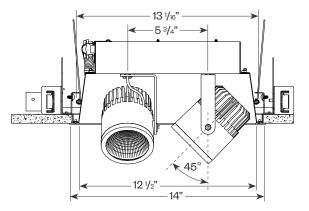
	1 Light	2 Light	3 Light
Α	13 ³/4"	20 ¹ /4"	25 ¹⁵ /16"
в	14 ½"	14 ½"	14 ½"
Б	max 25"	max 25"	max 25"
С	8 º/16"	15 1/16"	20 ¹³ /16"
D	10 11/16"	10 11/16"	10 11/16"

Ceiling cut out: 1 Light - 7 1/8" x 7 1/8" 2 Light - 7 1/8" x 13⁵/8" 3 Light - 7 1/8" x 13⁵/8"



Side View





Semi-Recessed Multiples

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27W

0.87

31W

1.0

PROJECT:

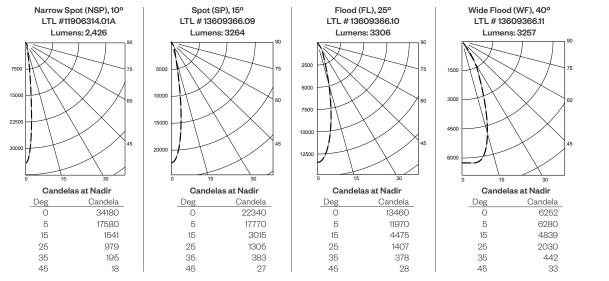
TYPE:

Performance Data (per head)

Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	400	00K-83				Wattage:	16W	19W	23W
Factor:	0.96	1.0	1.02	02 1.0					Factor:	0.51	0.61	0.74
CCT:	2700K-90+	3000K-90)+ 3500K-9	3500K-90+		90+	CRISP	3CLA				
Factor:	0.83	0.86	0.90		0.93		0.65	0.70				

31W LED, 3000K-83



Application Data (per head)

Notes and Definitions:

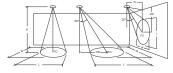
Beam spread is to 50% center beam candlepower (CBCP).

D=Distance to floor or wall

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

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level). CB=Distance across or down to center beam location.



	\bigwedge	1	Aiming A Horizon ootcand	tal		30	0	Hoi	ning An izontal candle:	-		3	°°		ning An rtical candles		60	° V	V	ming A ertical tcandle	
	D	FC	L	W		D	FC	L	W	CB		D	FC	L	W	CB	D	FC	L	W	CB
NARROW SPOT	5.0'	1367	1.1	1.1		5.0'	839	1.3	1.1	3.0		3.0'	508	2.0	1.1	5.0	3.0'	1553	1.1	1.0	2.0
ARRO	7.5'	608	1.3	1.3		7.5'	384	1.9	1.4	4.0		4.0'	261	2.9	1.4	7.0	4.0'	1131	1.2	1.1	2.0
AF IS	10.0'	342	1.7	1.7		10.0'	211	2.5	2.1	6.0		5.0'	186	3.3	1.6	8.0	5.0'	846	1.2	1.1	3.0
2	12.5'	219	2.3	2.3		12.5'	143	3.0	2.7	7.0		6.0'	128	4.0	2.1	10.0	6.0'	503	2.0	1.3	3.0
	D	FC	L	W	_	D	FC	L	W	CB		D	FC	L	W	CB	D	FC	L	W	CB
F	5.0'	894	1.3	1.3		5.0'	559	2.1	1.5	3.0		3.0'	338	3.1	1.5	5.0	3.0'	1275	1.4	1.1	2.0
SPOT	7.5'	398	2.2	2.2		7.5'	265	2.8	2.5	4.0		4.0'	212	3.8	2.0	6.0	4.0'	903	1.6	1.2	2.0
ŝ	10.0'	224	2.9	2.9		10.0'	145	3.9	3.3	5.0		5.0'	132	4.8	2.7	7.0	5.0'	561	2.1	1.5	3.0
	12.5'	144	3.6	3.6		12.5'	95	4.7	4.2	7.0		6.0'	95	5.6	3.1	9.0	6.0'	402	2.3	1.8	3.0
	D	FC	L	W	_	D	FC	L	W	CB	_	D	FC	L	W	CB	D	FC	L	W	CB
0	5.0'	539	2.0	2.0	_	5.0'	338	2.8	2.5	3.0		3.0'	259	3.5	2.0	4.0	3.0'	814	2.1	1.4	2.0
FLOOD	7.5'	240	3.1	3.1		7.5'	162	3.8	3.5	4.0		4.0'	143	4.6	2.9	5.0	4.0'	573	2.1	1.7	2.0
5	10.0'	135	4.0	4.0		10.0'	92	5.1	4.5	5.0		5.0'	92	5.7	3.5	7.0	5.0'	340	2.8	2.5	3.0
	12.5'	87	5.1	5.1		12.5'	58	6.5	5.7	6.0		6.0'	65	7.0	4.2	8.0	6.0'	255	3.1	2.8	3.0
	D	FC	L	W		D	FC	L	W	CB		D	FC	L	W	CB	D	FC	L	W	CB
O	5.0'	284	3.3	3.3	_	5.0'	222	3.6	3.2	2.0		3.0'	191	3.2	2.7	3.0	3.0'	550	2.3	1.8	1.0
wide Flood	7.5'	121	5.0	5.0		7.5'	95	5.4	5.1	3.0		4.0'	108	4.2	3.6	4.0	4.0'	283	3.3	3.1	2.0
≥Ę	10.0'	67	6.6	6.6		10.0'	53	7.4	6.8	4.0		5.0'	69	5.5	4.6	5.0	5.0'	201	3.8	3.4	2.0
	12.5'	43	8.3	8.3		12.5'	34	9.2	8.6	5.0		6.0'	48	6.5	5.4	6.0	6.0'	138	4.6	4.3	2.0



Semi-Recessed Multiples

PROJECT:

TYPE:

Dimming Compatibility

Amerlux[®] Cylindrix[®] 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

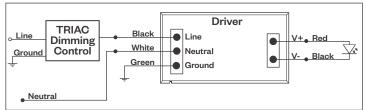
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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



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ELV - Electronic Low Voltage (Reverse Phase) Dimming

Utilizes specialized "ELV" dimmers.

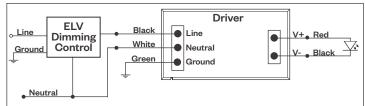
Notes:

• 120VAC or 277VAC*

Compatible Dimmorati

- 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.



Semi-Recessed Multiples

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PROJECT:

TYPE:

Dimming Compatibility (continued)

Amerlux[®] Cylindrix[®] 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.

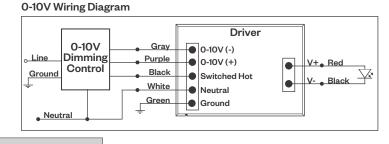
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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!



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

Lutron LDE1 Dimming

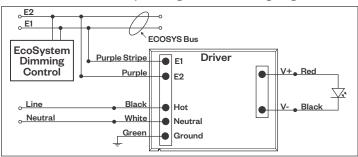
Integrates into Lutron EcoSystem building management

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

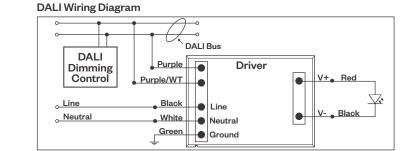
Digital control protocol allows individual fixture control

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



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.



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PROJECT:

TYPE:

Emergency Dimming

Wiring Diagram

