

ESSENCE™

45 DEGREE

ESSENCE architectural light channels provide premium, made-to-order, specification grade, high color quality 24VDC linear task and accent lighting solutions. Backed by short lead times and impeccable service, ESSENCE is easy to specify and install.

PREMIUM COLOR QUALITY AND CONSISTENCY

- U-Series Static White: 1-step color consistency, CRI 97+, R₉ 95+, R_r 95+, R_g 100
- P-Series Static White: 2-step color consistency, CRI 95+, R₉ 90+, R_r 90+, R_g 95-105
- Warm Dim: 2-step color consistency, CRI 95+, R₉ 90+, R_r 90+, R_g 95

CLEAN AESTHETIC WITH MINIMAL SHADOWING

- Concealed mounting hardware, minimal end cap thickness (0.04" thick)
- Tight LED pitch (Static White: 72 LEDs/ft; Warm Dim: 52 LEDs/ft); White Lens eliminates pixelation for Static White
- Concealed joiner allows individual segments to be joined with minimal shadowing

EASE OF SPECIFYING AND INSTALLATION

- Fixtures available in 1-inch increments up to 50 ft, length, includes end caps
- Fixtures longer than 8 ft contain multiple equal length segments that are joined in the field
- Includes 3M™ Tape and easy snap-in mechanical mounting clips for ceiling and wall mount

MINIMAL VOLTAGE DROP AND HIGH RELIABILITY

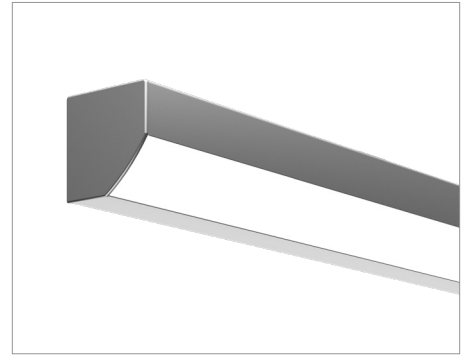
- Copper substrate minimizes voltage drop for consistent brightness along run

APPLICATION VERSATILITY

- Standard phase dimming down to 0.2% and Lutron Hi-lume EcoSystem down to 0.1%
- Registered CEC appliance database. Can be used to comply with CEC 2019 title 24 part 6, excluding MLV driver option
- ETL listed Class 2, Damp listed; approved for use in closet storage spaces per NEC Article 410.16

SPECIFICATIONS

	U-SERIES			P-SERIES				WARM DIM
	STATIC WHITE			STATIC WHITE				
DELIVERED LUMENS/FT	625	375	225	625	375	225	170	250
WATTS/FT	7.3	4.6	2.5	7.3	4.6	2.5	1.9	3.4
EFFICACY	86	82	90	86	82	90	89	75
CCT OPTIONS	2700K, 3000K, 3500K			2400K, 2700K, 3000K, 3500K, 4200K				3000K - 1800K
COLOR CONSISTENCY	1-step			2-step				2-step
CRI	97+			95+				95+
VOLTAGE	Channels and LED Tape: 24VDC input Power Supplies: 120V or 277VAC input; 24VDC output							
DIMMING	Standard phase dimming (down to 0.2%) MLV dimming (down to 0.2%) 0-10V dimming (down to 5%) Lutron Hi-lume EcoSystem/3-wire (down to 0.1%)							Standard phase dimming (down to 0.2%) 0-10V dimming (down to 5%)
POWER SUPPLY	Constant voltage with +0.9 power factor and +80% efficiency. Class 2 up to 100W.							
LENS	Frosted, White							
CONSTRUCTION	Channel: Extruded Aluminum Lens: Extruded Acrylic End caps: Die-Cast Zinc							
FINISH	Black (anodized), Satin Aluminum (anodized) or White (powder coated, paintable)							
GENERAL LISTING	ETL Listed Class 2, Damp Listed.							
CALIFORNIA TITLE 24	Registered CEC appliance database. Can be used to comply with CEC 2019 title 24 part 6, excluding MLV.							
L70	50,000 hours min							
WARRANTY	Channels 10 years; Power Supplies 5 years							



SHOWN IN SATIN ALUMINUM

LUMEN MULTIPLIER (CRI/CCT)

CCT	MULTIPLIER
2400K	0.90
2700K	0.95
3000K	1.00
3500K	1.05
4200K	1.10

Lumen output will vary by CCT.
For White Lens, multiply output again by 0.80.
See photometric charts for more information.

Data in chart reflect 3000K values with Frosted Lens unless noted. For White Lens, multiply output by 0.80.

Ordering grids available on page 2.

Visit Techlighting.com for specific warranty limitations and details.

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ORDERING GRIDS

45 DEGREE U-SERIES STATIC WHITE

(1-STEP)

SYSTEM	LENGTH IN INCHES	OUTPUT/FT ¹	CRI/CCT	LENS	FINISH	POWER FEED
ES45U ESSENCE 45 DEGREE U-SERIES (1-STEP)	6-480 (1" INCREMENTS)	225 225 LM/FT	927 97 CRI, 2700K	F FROSTED	B BLACK	1L 1 FEED LEFT
		375 375 LM/FT ²	930 97 CRI, 3000K	W WHITE	A SATIN ALUMINUM	1R 1 FEED RIGHT
		625 625 LM/FT ³	935 97 CRI, 3500K		W WHITE (PAINTABLE)	2 2 FEEDS

ES45U

¹Frosted Lens output shown. For White Lens multiply output by 0.80.

²375 - Output 240" (20 ft) max length.

³625 - Output 156" (13 ft) max length.

45 DEGREE P-SERIES STATIC WHITE

(2-STEP)

SYSTEM	LENGTH IN INCHES	OUTPUT/FT ¹	CRI/CCT	LENS	FINISH	POWER FEED
ES45P ESSENCE 45 DEGREE P-SERIES (2-STEP)	6-600 (1" INCREMENTS)	170 170 LM/FT	924 95 CRI, 2400K ⁵	F FROSTED	B BLACK	1L 1 FEED LEFT
		225 225 LM/FT ²	927 95 CRI, 2700K	W WHITE	A SATIN ALUMINUM	1R 1 FEED RIGHT
		375 375 LM/FT ³	930 95 CRI, 3000K		W WHITE (PAINTABLE)	2 2 FEEDS
		625 625 LM/FT ⁴	935 95 CRI, 3500K			
			942 95 CRI, 4200K ⁶			

ES45P

¹Frosted Lens output shown. For White Lens multiply output by 0.80.

²225 - Output 480" (40 ft) max length

³375 - Output 240" (20 ft) max length.

⁴625 - Output 156" (13 ft) max length.

⁵924 - 170 and 225 lm/ft only.

⁶942 - Not available in 170 lm/ft; 225 and 625 lm/ft.

45 DEGREE WARM DIM

(2-STEP)

PRODUCT	LENGTH IN INCHES	OUTPUT/FT ¹	CRI/CCT	LENS	FINISH	POWER FEED
ES45D ESSENCE 45 DEGREE	6-180 (1" INCREMENTS)	250 250 LM/FT	9W3018 95 CRI, WARM DIM 3000K-1800K	F FROSTED	B BLACK	1L 1 FEED LEFT
				W WHITE	A SATIN ALUMINUM	1R 1 FEED RIGHT
ES45D		250	9W3018		W WHITE (PAINTABLE)	2 2 FEEDS

¹Frosted Lens output shown. For White Lens multiply output by 0.80.

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LENS

FROSTED LENS



SHOWN ON



SHOWN OFF

WHITE LENS

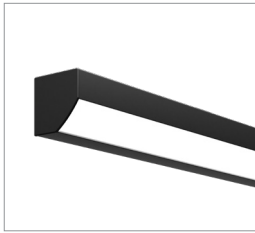


SHOWN ON

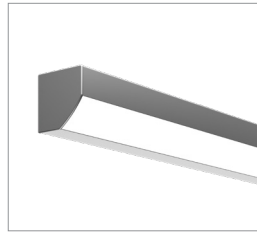


SHOWN OFF

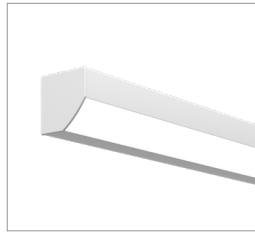
FINISH OPTIONS



BLACK

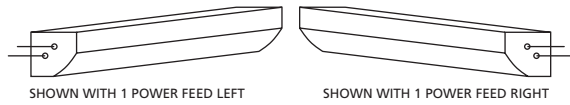
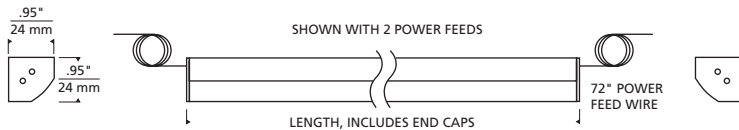


SATIN ALUMINUM

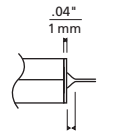


WHITE (PAINTABLE)

DIMENSIONS



END CAP THICKNESS:



REQUIRED CLEARANCE:
0.13" (3 mm) TO ROUTE
INTO MOUNTING SURFACE



0.25" (6 mm) TO ROUTE
PARALLEL TO MOUNTING SURFACE

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ACCESSORIES

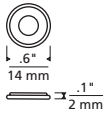


ESSENCE CHANNEL MOUNTING CLIP, SURFACE FIXED

Included with fixture and to be used every 2 feet. Assembles to the mounting surface with wood screw (included) allowing fixture to snap into place with a secure hold. Once fixture is installed, the Surface Fixed Mounting Clip is completely concealed within the rear channel of fixture. Mounting to surfaces other than wood, requires alternate screws/anchors (not included). For wall mount with fixtures oriented vertically, use Double-Sided Tape.

ORDERING INFORMATION

ESCLPSF06

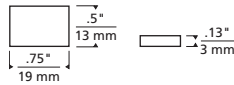


ESSENCE CHANNEL MOUNTING DOUBLE-SIDED TAPE

Included with fixture and to be used every foot. Easy to apply, high-bond tape used as an alternative mounting solution for a secure hold. Once fixture is installed, the Double-Sided Tape is completely concealed within the rear channel of the fixture. For wall mount use, fixtures must be oriented horizontally.

ORDERING INFORMATION

ESTPDS75

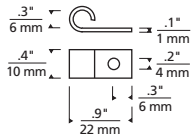


WIRE MANAGEMENT CLIP

Designed with simplicity to help route and conceal wiring. Includes 10 clips and screws.

ORDERING INFORMATION

ESLTCLPJ

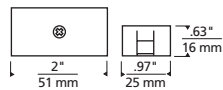


SPLICE BOX

Used for housing low-voltage wire connections.

ORDERING INFORMATION

ESLTSBB BLACK
ESLTSBW WHITE



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POWER SUPPLIES



60W



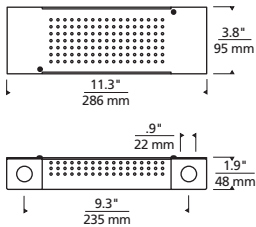
100W

REMOTE POWER SUPPLY PHASE DIMMING¹

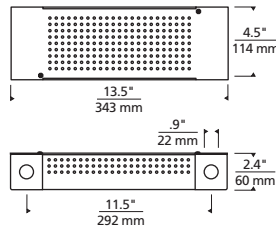
Remote Power Supply for Phase Dimming down to 0.2%. 120V input voltage with 24VDC output available in 60W and 100W. Enclosure included.

ORDERING INFORMATION

ESPR06024ELV120 60W POWER SUPPLY REMOTE PHASE DIMMING
 ESPR10024ELV120 100W POWER SUPPLY REMOTE PHASE DIMMING



60W PHASE DIMMING ENCLOSURE



100W PHASE DIMMING ENCLOSURE



60W



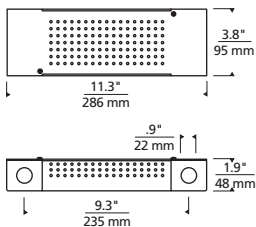
100W

REMOTE POWER SUPPLY 0-10V¹

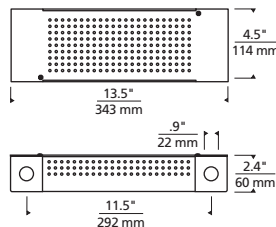
Remote Power Supply for 0-10V dimming down to 5%. Universal input 120V-277V with 24VDC output available in 60W and 100W. Enclosure included.

ORDERING INFORMATION

ESPR06024010120-277 60W POWER SUPPLY REMOTE 0-10V
 ESPR10024010120-277 100W POWER SUPPLY REMOTE 0-10V



60W 0-10V ENCLOSURE



100W 0-10V ENCLOSURE



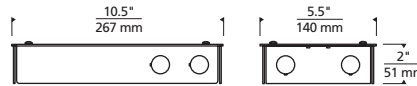
REMOTE POWER SUPPLY LUTRON HI-LUME ECOSYSTEM/3-WIRE 0.1%¹

Remote Lutron Hi-lume Power Supply for EcoSystem or 3-wire compatibility with dimming down to 0.1%. Available for Static White LED Tape only. Universal input 120V-277V with 24VDC output available in 100W. Enclosure included.

ORDERING INFORMATION

ESPR10024HLECO120-277 100W POWER SUPPLY LUTRON HI-LUME ECOSYSTEM/3-WIRE¹

¹HLECO not available with Warm Dim.



100W ECOSYSTEM/3-WIRE ENCLOSURE



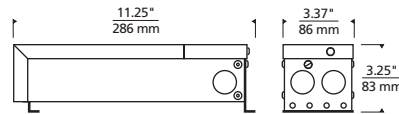
REMOTE TRANSFORMER MLV 0.2%

Remote Power Supply for MLV dimming down to 0.2%. 120V input voltage with 24VDC output available in 48W and 100W. 48W Load Max: 33W, 100W Load Max: 70W. Enclosure included.

ORDERING INFORMATION

ESPR04824JMLV120 48W POWER SUPPLY MLV 0.2%¹
 ESPR10024JMLV120 100W POWER SUPPLY MLV 0.2%¹

¹JMLV not available with Warm Dim.



60W AND 100W MLV ENCLOSURE



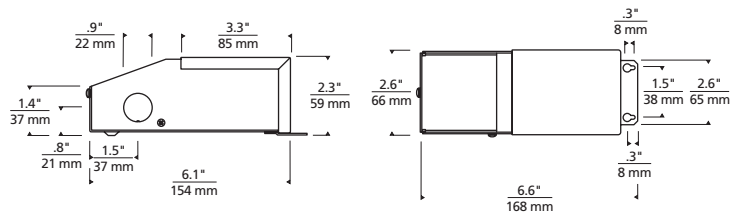
REMOTE TRANSFORMER MLV 5%

Remote Power Supply for MLV dimming down to 5%. 120V input voltage with 24VDC output available in 60W and 100W. Available for Static White LED Tape only. 60W Load Min/Max: 12W/42W, 100W Load Min/Max: 20W/70W. Enclosure included.

ORDERING INFORMATION

ESPR06024MLV120 60W POWER SUPPLY REMOTE MLV¹
 ESPR10024MLV120 100W POWER SUPPLY REMOTE MLV¹

¹MLV not available with Warm Dim.



60W AND 100W MLV ENCLOSURE

¹Registered CEC appliance database. Can be used to comply with CEC 2019 title 24 part 6.

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PROJECT INFORMATION

JOB NAME AND INFORMATION

FIXTURE TYPE AND QUANTITY

NOTES
