

ESSENCE™

SURFACE MOUNT 0808 ROUND LENS

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.

CLEAN AESTHETIC WITH MINIMAL SHADOWING

- Concealed mounting hardware, minimal end cap thickness (0.17" thick)
- Tight LED pitch (Static White: 72 LEDs/ft; Warm Dim: 52 LEDs/ft)

EASE OF SPECIFYING AND INSTALLATION

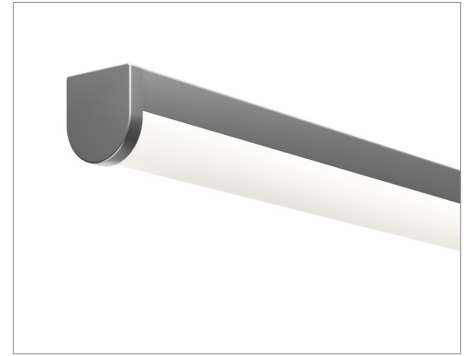
- Fixtures available in various increments up to 8 ft, length includes end caps
- Two mounting options: Fixed mounting includes 3M™ Tape and easy snap-in mechanical mounting clips for ceiling and wall mount. Magnetic mounting allows for tool-less installation to metal surfaces.

MINIMAL VOLTAGE DROP AND HIGH RELIABILITY

- Copper substrate minimizes voltage drop for consistent brightness along run

APPLICATION VERSATILITY

- Standard reverse-phase, forward-phase, and TRIAC dimming down to 0.2%, Lutron Hi-lume EcoSystem down to 0.1%, Standard 0-10V down to 5%, and eldoLED 0-10V down to 0.1%
- Registered CEC appliance database. It can be used to comply with CEC 2019 Title 24 Part 6
- ETL listed Class 2, Damp listed



SHOWN IN SATIN ALUMINUM

LUMEN MULTIPLIER (CRI/CCT)

CCT	WHITE LENS
2400K	0.90
2700K	0.96
3000K	1.00
3500K	1.05
4200K	1.10
WARM DIM 3000K-1800K	1.00

Lumen output will vary by CCT.
See photometric charts for more information.

SPECIFICATIONS

	U-SERIES			P-SERIES				WARM DIM	
	STATIC WHITE			STATIC WHITE					
DELIVERED LUMENS/FT	675	500	230	675	500	230	170	300	500
WATTS/FT	7.3	4.6	2.5	7.3	4.6	2.5	1.9	3.4	5.3
EFFICACY	92	109	92	92	109	92	89	90	94
CCT	2700K, 3000K, or 3500K			2400K, 2700K, 3000K, 3500K, or 4200K				3000K - 1800K	
COLOR CONSISTENCY	1-step			2-step				2-step	
COLOR QUALITY	CRI 97+, R _g 95+, R _f 95+, R _g 100			CRI 95+, R _g 90+, R _f 90+, R _g 95-105				CRI 95+, R _g 90+, R _f 90+, R _g 95	
VOLTAGE	Channels and LED Tape: 24VDC input Power Supplies: 120V or 277VAC input; 24VDC output								
DIMMING	Standard reverse-phase, forward-phase, and TRIAC dimming (down to 0.2%) MLV dimming (down to 0.2%) Standard 0-10V dimming (down to 5%) eldoLED 0-10V dimming (down to 0.1%) Lutron Hi-lume EcoSystem/3-wire (down to 0.1%)							Standard reverse-phase, forward-phase, and TRIAC dimming (down to 0.2%) Standard 0-10V dimming (down to 5%) eldoLED 0-10V dimming (down to 0.1%)	
POWER SUPPLY	Constant voltage with +0.9 power factor and +80% efficiency. Class 2 up to 100W.								
LENS	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 LISTINGS	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.								
L70	50,000 hours min								
WARRANTY	Channels 10 years; Power Supplies 5 years								

Data in chart reflect 3000K values unless noted. Reference Lumen Multiplier Chart for CCT and Lens multipliers.

Ordering grids available on page 2.

Visit Techlighting.com for specific warranty limitations and details.

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SURFACE MOUNT 0808 ROUND LENS

ORDERING GRIDS

SURFACE MOUNT 0808 ROUND LENS U-SERIES STATIC WHITE

(1-STEP)

PRODUCT	NOMINAL LENGTH IN INCHES	OUTPUT/FT	CRI/CCT	LENS	FINISH	MOUNTING	POWER FEED TYPE	POWER FEED POSITION	ASSEMBLY
ESSF0808RU ESSENCE SURFACE MOUNT 0.8"W X 0.8"H ROUND LENS U-SERIES (1-STEP)	6-96 (SEE OVERALL LENGTH CHART)	23 230 LM/FT	927 97 CRI, 2700K	W WHITE	B BLACK	F FIXED G MAGNETIC	1 1 FEED	B BACK	F FACTORY ASSEMBLED
		50 500 LM/FT	930 97 CRI, 3000K		A SATIN ALUMINUM		2 2 FEEDS	E END	
		67 675 LM/FT	935 97 CRI, 3500K		W WHITE (PAINTABLE)				
ESSF0808RU				W					

SURFACE MOUNT 0808 ROUND LENS P-SERIES STATIC WHITE

(2-STEP)

PRODUCT	NOMINAL LENGTH IN INCHES	OUTPUT/FT	CRI/CCT	LENS	FINISH	MOUNTING	POWER FEED TYPE	POWER FEED POSITION	ASSEMBLY
ESSF0808RP ESSENCE SURFACE MOUNT 0.8"W X 0.8"H ROUND LENS P-SERIES (2-STEP)	6-96 (SEE OVERALL LENGTH CHART)	17 170 LM/FT	924 95 CRI, 2400K ¹	W WHITE	B BLACK	F FIXED G MAGNETIC	1 1 FEED	B BACK	F FACTORY ASSEMBLED
		23 230 LM/FT	927 95 CRI, 2700K		A SATIN ALUMINUM		2 2 FEEDS	E END	
		50 500 LM/FT	930 95 CRI, 3000K		W WHITE (PAINTABLE)				
		67 675 LM/FT	935 95 CRI, 3500K						
			942 95 CRI, 4200K ²						
ESSF0808RP				W					

¹924 - 170 and 230 lm/ft only.
²942 - Not available 170 lm/ft.

SURFACE MOUNT 0808 ROUND LENS WARM DIM

(2-STEP)

PRODUCT	LENGTH IN INCHES	OUTPUT/FT	CRI/CCT	LENS	FINISH	MOUNTING	POWER FEED TYPE	POWER FEED POSITION	ASSEMBLY
ESSF0808RD ESSENCE SURFACE MOUNT 0.8"W X 0.8"H ROUND LENS	6-96 (SEE OVERALL LENGTH CHART)	30 300 LM/FT	9W31 95 CRI, WARM DIM	W WHITE	B BLACK	F FIXED G MAGNETIC	1 1 FEED	B BACK	F FACTORY ASSEMBLED
		50 500 LM/FT	3000K-1800K		A SATIN ALUMINUM		2 2 FEEDS	E END	
ESSF0808RD			9W31	W					

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SURFACE MOUNT 0808 ROUND LENS

LENGTH CHARTS: FACTORY-ASSEMBLED

OVERALL LENGTH CHART FOR STATIC WHITE

When ordering for Surface Mount 0808 Round Static White, refer to the chart below to identify the Nominal Length referenced in the item number.

NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED
6	5-7/8"	-	25	24-1/4"	24-3/4"	44	43-15/16"	43-1/8"	63	62-3/8"	62-13/16"	82	-	81-3/16"
7	-	6-5/16"	26	25-9/16"	-	45	-	44-7/16"	64	63-11/16"	-	83	82-1/16"	82-1/2"
8	7-3/16"	7-5/8"	27	26-7/8"	26-1/16"	46	45-1/4"	45-3/4"	65	65"	64-1/8"	84	83-3/8"	83-13/16"
9	8-1/2"	8-15/16"	28	-	27-3/8"	47	46-5/8"	-	66	-	65-7/16"	85	84-11/16"	-
10	9-13/16"	-	29	28-3/16"	28-11/16"	48	47-15/16"	47-1/16"	67	66-5/16"	66-3/4"	86	86"	85-1/8"
11	-	10-1/4"	30	29-1/2"	30"	49	-	48-3/8"	68	67-5/8"	-	87	-	86-7/16"
12	11-1/8"	11-9/16"	31	30-13/16"	-	50	49-1/4"	49-11/16"	69	68-15/16"	68-1/16"	88	87-5/16"	87-13/16"
13	12-7/16"	12-7/8"	32	-	31-5/16"	51	50-9/16"	51"	70	-	69-3/8"	89	88-5/8"	-
14	13-3/4"	-	33	32-1/8"	32-5/8"	52	51-7/8"	-	71	70-1/4"	70-11/16"	90	89-15/16"	89-1/8"
15	-	14-3/16"	34	33-7/16"	33-15/16"	53	-	52-5/16"	72	71-9/16"	72"	91	-	90-7/16"
16	15-1/16"	15-1/2"	35	34-3/4"	-	54	53-3/16"	53-5/8"	73	72-7/8"	-	92	91-1/4"	91-3/4"
17	16-3/8"	16-13/16"	36	-	35-1/4"	55	54-1/2"	54-15/16"	74	-	73-5/16"	93	92-9/16"	-
18	17-11/16"	-	37	36-1/16"	36-9/16"	56	55-13/16"	-	75	74-3/16"	74-5/8"	94	93-7/8"	93-1/16"
19	19"	18-1/8"	38	37-3/8"	37-7/8"	57	-	56-1/4"	76	75-1/2"	75-15/16"	95	-	94-3/8"
20	-	19-1/2"	39	38-11/16"	-	58	57-1/8"	57-9/16"	77	76-13/16"	-	96	95-3/16"	95-11/16"
21	20-5/16"	20-13/16"	40	40"	39-3/16"	59	58-7/16"	58-7/8"	78	-	77-1/4"			
22	21-5/8"	-	41	-	40-1/2"	60	59-3/4"	-	79	78-1/8"	78-9/16"			
23	22-15/16"	22-1/8"	42	41-5/16"	41-13/16"	61	-	60-3/16"	80	79-7/16"	79-7/8"			
24	-	23-7/16"	43	42-5/8"	-	62	61-1/16"	61-1/2"	81	80-3/4"	-			

OVERALL LENGTH CHART FOR WARM DIM

When ordering for Surface Mount 0808 Round Warm Dim, refer to the chart below to identify the Nominal Length referenced in the item number.

NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED	NOMINAL LENGTH	ACTUAL LENGTH END FEED	ACTUAL LENGTH BACK FEED
6	-	-	25	-	-	44	43-1/4"	43-11/16"	63	62-15/16"	-	82	-	-
7	-	-	26	-	-	45	-	-	64	-	63-3/8"	83	82-9/16"	-
8	7-3/16"	7-5/8"	27	26-7/8"	-	46	-	-	65	-	-	84	-	83-1/16"
9	-	-	28	-	27-5/16"	47	46-1/2"	47"	66	-	-	85	-	-
10	-	-	29	-	-	48	-	-	67	66-3/16"	66-11/16"	86	85-7/8"	-
11	10-7/16"	10-15/16"	30	-	-	49	-	-	68	-	-	87	-	86-5/16"
12	-	-	31	30-1/8"	30-9/16"	50	49-13/16"	-	69	-	-	88	-	-
13	-	-	32	-	-	51	-	50-1/4"	70	69-1/2"	69-15/16"	89	-	-
14	13-3/4"	-	33	-	-	52	-	-	71	-	-	90	89-1/8"	89-5/8"
15	-	14-3/16"	34	33-3/8"	33-7/8"	53	-	-	72	-	-	91	-	-
16	-	-	35	-	-	54	53-1/16"	53-9/16"	73	72-3/4"	-	92	-	-
17	17"	-	36	-	-	55	-	-	74	-	73-3/16"	93	92-7/16"	92-7/8"
18	-	17-1/2"	37	36-11/16"	-	56	-	-	75	-	-	94	-	-
19	-	-	38	-	37-1/8"	57	56-3/8"	56-13/16"	76	-	-	95	-	-
20	-	-	39	-	-	58	-	-	77	76-1/16"	76-1/2"	96	95-11/16"	-
21	20-5/16"	20-3/4"	40	39-15/16"	-	59	-	-	78	-	-			
22	-	-	41	-	40-7/16"	60	59-5/8"	-	79	-	-			
23	-	-	42	-	-	61	-	60-1/8"	80	79-5/16"	79-3/4"			
24	23-9/16"	24"	43	-	-	62	-	-	81	-	-			

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LENS



UNIFORM



SEMI-UNIFORM



IMAGING

WHITE LENS		FROSTED LENS	
STATIC WHITE	WARM DIM	STATIC WHITE	WARM DIM
UNIFORM	UNIFORM	UNIFORM	IMAGING

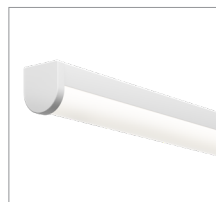
FINISH OPTIONS



BLACK

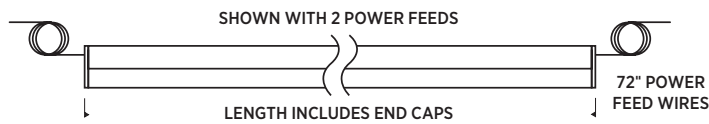
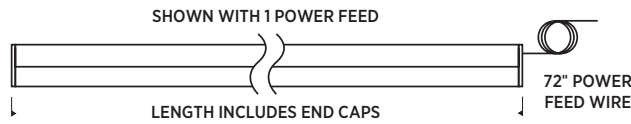
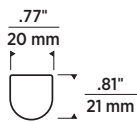


SATIN ALUMINUM

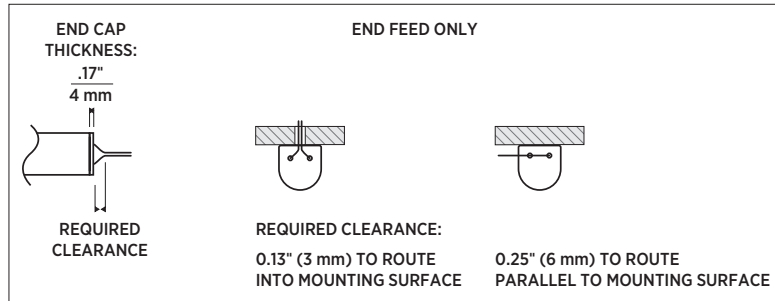
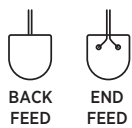


WHITE (PAINTABLE)

DIMENSIONS



POWER FEED POSITION



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MOUNTING OPTIONS



MAGNETIC MOUNTING CLIP



SURFACE MOUNTING CLIP FIXED



3M™ TAPE MOUNTING FIXED

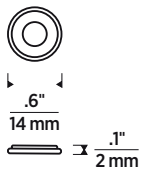
ACCESSORIES



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.

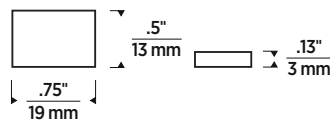
ORDERING INFORMATION
ESCLPSF06



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.

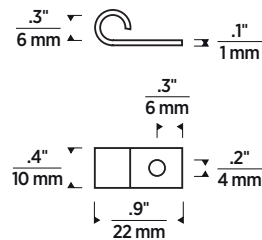
ORDERING INFORMATION
ESTPDS75



WIRE MANAGEMENT CLIP

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

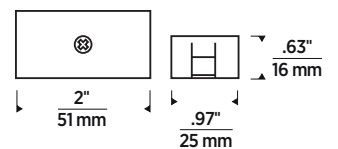
ORDERING INFORMATION
ESLTCLPJ



SPLICE BOX

Used for housing low-voltage wire connections.








ORDERING INFORMATION
ESLTSBB BLACK
ESLTSBW WHITE



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REMOTE POWER SUPPLIES

POWER SUPPLY	ITEM NUMBER	MINIMUM ¹ DIMMING LEVEL	FEATURES
REVERSE-PHASE, FORWARD-PHASE, TRIAC			
 <p>INDOOR - 60W INDOOR - 100W</p>	<p>60W: ESPRO6024ELV120 8.1"L x 4.1"W x 1.8"H</p> <p>100W: ESPRI0024ELV120 13.5"L x 4.5"W x 2.4"H</p>	0.2%	<ul style="list-style-type: none"> • 120V input voltage; 24VDC output voltage • Can be used to comply with CEC 2019 Title 24 Part 6
0-10V			
 <p>INDOOR - 60W INDOOR - 100W</p>	<p>Standard</p> <p>60W: ESPRO6024010120-277 8.1"L x 4.1"W x 1.8"H</p> <p>100W: ESPRI0024010120-277 13.5"L x 4.5"W x 2.4"H</p>	5%	<ul style="list-style-type: none"> • Universal 120V-277V input voltage; 24VDC output voltage • Can be used to comply with CEC 2019 Title 24 Part 6
 <p>INDOOR - 60W AND 100W</p>	<p>EldoLED LINEARdrive</p> <p>60W: ESPRO60241010120-277 8.1"L x 4.1"W x 1.8"H</p> <p>100W: ESPRI00241010120-277 8.1"L x 4.1"W x 1.8"H</p>	0.1%	
MLV			
 <p>INDOOR - 60W AND 100W</p>	<p>Standard</p> <p>60W: ESPRO6024MLV120 6.1"L x 2.6"W x 2.3"H</p> <p>100W: ESPRI0024MLV120 6.1"L x 2.6"W x 2.3"H</p>	5%	<ul style="list-style-type: none"> • 120V input voltage; 24VDC output voltage • 60W load min/max: 12W/42W; 100W load min/max: 20W/70W • Static White only; not available with Warm Dim
 <p>INDOOR - 48W AND 100W</p>	<p>Justin</p> <p>48W: ESPRO4824JMLV120 11.3"L x 3.4"W x 3.3"H</p> <p>100W: ESPRI0024JMLV120 11.3"L x 3.4"W x 3.3"H</p>	0.2%	<ul style="list-style-type: none"> • 120V input voltage; 24VDC output voltage • 48W load max: 33W; 100W load max: 70W • Can be used to comply with CEC 2019 Title 24 Part 6 • Static White only; not available with Warm Dim
LUTRON HI-LUME ECOSYSTEM / 3-WIRE 0.1% DIMMING			
 <p>INDOOR - 100W</p>	<p>100W: ESPRI0024HLECO120-277 10.5"L x 5.5"W x 2"H</p>	0.1%	<ul style="list-style-type: none"> • Used when a Lutron Hi-lume control system is required • Universal 120V-277V input voltage; 24VDC output voltage • Can be used to comply with CEC 2019 Title 24 Part 6 • Static White only; not available with Warm Dim
NON-DIMMING			
 <p>INDOOR - 60W AND 100W</p>	<p>60W: ESPRO6024ND120-277 8.1"L x 4.1"W x 1.8"H</p> <p>100W: ESPRI0024ND120-277 8.1"L x 4.1"W x 1.8"H</p>	Not dimmable	<ul style="list-style-type: none"> • Used when dimming is not required • Universal 120V-277V input voltage; 24VDC output voltage

¹Minimum dimming levels vary by dimmer. For more information reference the ESSENCE Architectural Light Channels and LED Tape Dimmer Compatibility Chart available for download on Techlighting.com.

