

# ESSENCE™

## SURFACE MOUNT 0808 ROUND LENS

Brighten your space with a linear LED ESSENCE Surface 0808 round lens. This slim form factor delivers 180 degrees of coverage and uniformity. ESSENCE is customizable for task or accent lighting with a selection of five wattage options and multiple color temperatures ranging from 2400K up to 4200K and warm dim.

### CLEAN AESTHETIC WITH MINIMAL SHADOWING

- Mounting hardware is fully concealed when installed
- Tight LED pitch (static white: 72 LEDs/ft; warm dim: 52 LEDs/ft) for uniform illumination

### EASE OF SPECIFYING AND INSTALLATION

- Fixtures are 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-free 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; complies with CEC 2019 Title 24 Part 6
- ETL listed Class 2, Damp Location



SHOWN IN BLACK

### 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 STATIC WHITE			P-SERIES STATIC WHITE				WARM DIM	
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 <sub>g</sub> 95+, R <sub>f</sub> 95+, R <sub>g</sub> 100			CRI 95+, R <sub>g</sub> 90+, R <sub>f</sub> 90+, R <sub>g</sub> 95-105				CRI 95+, R <sub>g</sub> 90+, R <sub>f</sub> 90+, R <sub>g</sub> 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%) (not available with warm dim) 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%) (not available with warm dim)								
POWER SUPPLY	Constant voltage with +0.9 power factor and +80% efficiency. Class 2 up to 100W.								
LENS	White								
CONSTRUCTION	Channel: Aluminum   Lens: Acrylic   End caps: Zinc								
FINISH	Black (anodized), Satin Aluminum (anodized), or White (powder coated, paintable)								
GENERAL LISTINGS	ETL Listed Class 2, Damp Location.								
CALIFORNIA TITLE 24	Registered CEC appliance database. Complies 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 [www.techlighting.com](http://www.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)				
<b>ESSF0808RU</b>				<b>W</b>					

**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 <sup>1</sup>	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 <sup>2</sup>						
<b>ESSF0808RP</b>				<b>W</b>					

<sup>1</sup>924 - 170 and 230 lm/ft only.  
<sup>2</sup>942 - 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 3000K-1800K	W WHITE	B BLACK	F FIXED G MAGNETIC	1 1 FEED	B BACK	F FACTORY ASSEMBLED
		50 500 LM/FT			A SATIN ALUMINUM		2 2 FEEDS	E END	
<b>ESSF0808RD</b>			<b>9W31</b>	<b>W</b>					

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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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## SURFACE MOUNT 0808 ROUND LENS

### LENS



UNIFORM



SEMI-UNIFORM



IMAGING

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

### FINISH OPTIONS



BLACK

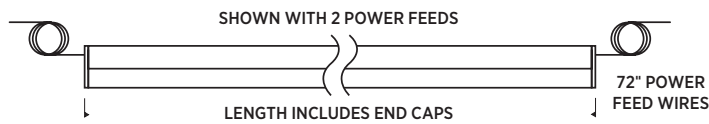
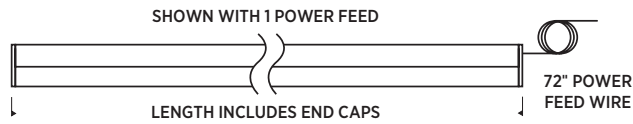
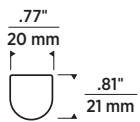


SATIN ALUMINUM

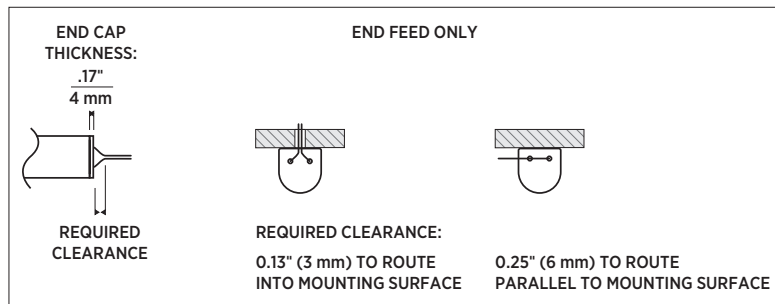
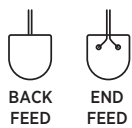


WHITE (PAINTABLE)

### DIMENSIONS



### POWER FEED POSITION



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## SURFACE MOUNT 0808 ROUND LENS

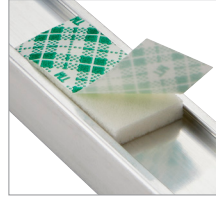
### MOUNTING OPTIONS



MAGNETIC MOUNTING CLIP



SURFACE MOUNTING CLIP FIXED



3M™ TAPE MOUNTING FIXED

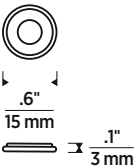
### ACCESSORIES



#### ESSENCE CHANNEL SURFACE FIXED MOUNTING CLIP

Mounting clips are included with fixtures and are 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.

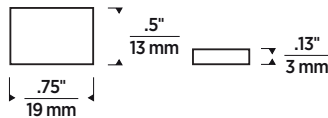
ORDERING INFORMATION  
ESCLPSF06



#### ESSENCE CHANNEL DOUBLE-SIDED MOUNTING TAPE

Double-sided mounting tape is included with fixtures and is to be used every foot. Easy to apply, high-bond is tape used as an alternative mounting solution for a secure hold. Once the fixture is installed, the double-sided tape is completely concealed within the rear channel of the fixture.

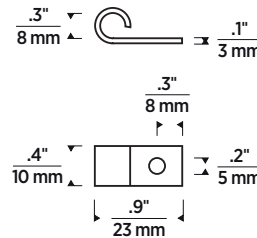
ORDERING INFORMATION  
ESTPDS75



#### WIRE MANAGEMENT CLIP

Wire management clip helps route and conceal wiring. Package includes 10 clips and screws.

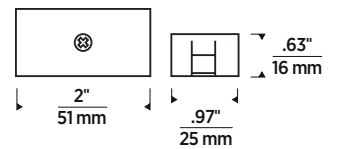
ORDERING INFORMATION  
ESLTCLPJ



#### SPLICE BOX

Splice box is used to house low-voltage wire connections.

ORDERING INFORMATION  
ESLTSBB BLACK  
ESLTSBW WHITE










# ESSENCE™

## SURFACE MOUNT 0808 ROUND LENS

### REMOTE POWER SUPPLIES

All power supplies are Damp Location Listed.

POWER SUPPLY	ITEM NUMBER	MINIMUM <sup>1</sup> DIMMING LEVEL	FEATURES
<b>REVERSE-PHASE, FORWARD-PHASE, TRIAC</b>			
 <p>INDOOR - 60W      INDOOR - 96W</p>	<p><b>60W:</b> ESPRO6024ELV120 8.1"L x 4.1"W x 1.8"H</p> <p><b>96W:</b> ESPR10024ELV120 13.5"L x 4.5"W x 2.4"H</p>	0.2%	<ul style="list-style-type: none"> <li>• 120V input voltage; 24VDC output voltage</li> <li>• Complies with CEC 2019 Title 24 Part 6</li> </ul>
<b>0-10V</b>			
 <p>INDOOR - 60W      INDOOR - 96W</p>	<p><b>Standard</b></p> <p><b>60W:</b> ESPRO6024010120-277 8.1"L x 4.1"W x 1.8"H</p> <p><b>96W:</b> ESPR10024010120-277 13.5"L x 4.5"W x 2.4"H</p>	5%	<ul style="list-style-type: none"> <li>• Universal 120V-277V input voltage; 24VDC output voltage</li> <li>• Complies with CEC 2019 Title 24 Part 6</li> </ul>
 <p>INDOOR - 60W AND 96W</p>	<p><b>EldoLED LINEARdrive</b></p> <p><b>60W:</b> ESPRO60241010120-277 8.1"L x 4.1"W x 1.8"H</p> <p><b>96W:</b> ESPR100241010120-277 8.1"L x 4.1"W x 1.8"H</p>	0.1%	
<b>MLV</b>			
 <p>INDOOR - 60W AND 100W</p>	<p><b>Standard</b></p> <p><b>60W:</b> ESPRO6024MLV120 6.1"L x 2.6"W x 2.3"H</p> <p><b>100W:</b> ESPR10024MLV120 6.1"L x 2.6"W x 2.3"H</p>	5%	<ul style="list-style-type: none"> <li>• 120V input voltage; 24VDC output voltage</li> <li>• 60W load min/max: 12W/42W; 100W load min/max: 20W/70W</li> <li>• Static white only; not available with warm dim</li> </ul>
 <p>INDOOR - 48W AND 100W</p>	<p><b>Justin</b></p> <p><b>48W:</b> ESPRO4824JMLV120 11.3"L x 3.4"W x 3.3"H</p> <p><b>100W:</b> ESPR10024JMLV120 11.3"L x 3.4"W x 3.3"H</p>	0.2%	<ul style="list-style-type: none"> <li>• 120V input voltage; 24VDC output voltage</li> <li>• 48W load max: 33W; 100W load max: 70W</li> <li>• Static white only; not available with warm dim</li> </ul>
<b>LUTRON HI-LUME ECOSYSTEM / 3-WIRE 0.1% DIMMING</b>			
 <p>INDOOR - 100W</p>	<p><b>100W:</b> ESPR10024HLECO120-277 10.5"L x 5.5"W x 2"H</p>	0.1%	<ul style="list-style-type: none"> <li>• Used when a Lutron Hi-lume control system is required</li> <li>• Universal 120V-277V input voltage; 24VDC output voltage</li> <li>• Complies with CEC 2019 Title 24 Part 6</li> <li>• Static white only; not available with warm dim</li> </ul>
<b>NON-DIMMING</b>			
 <p>INDOOR - 60W AND 96W</p>	<p><b>60W:</b> ESPRO6024ND120-277 8.1"L x 4.1"W x 1.8"H</p> <p><b>96W:</b> ESPR10024ND120-277 8.1"L x 4.1"W x 1.8"H</p>	Not dimmable	<ul style="list-style-type: none"> <li>• Used when dimming is not required</li> <li>• Universal 120V-277V input voltage; 24VDC output voltage</li> </ul>

<sup>1</sup>Minimum dimming levels vary by dimmer. For more information, reference the ESSENCE architectural light channels and LED tape dimmer compatibility chart available for download on [www.techlighting.com](http://www.techlighting.com).

# ESSENCE™

SURFACE MOUNT 0808 ROUND LENS

**PROJECT INFORMATION**

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**JOB NAME AND INFORMATION**

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**FIXTURE TYPE AND QUANTITY**

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**NOTES**

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