

# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT



SHOWN IN FLANGELESS BEVEL SQUARE

The ELEMENT 2" Ultra-Shallow Fixed Downlight is the ultimate solution for an aesthetically minimal recessed fixture to fit into the smallest of plenums. With an overall height of only 2.25", the ELEMENT 2" Ultra-Shallow Fixed Downlight is rated IC Airtight and still delivers the same performance as the rest of the ELEMENT 2" platform.

- 2.25" overall housing height
- 1-step static white, 2-step warm dim and tunable white
- Lensed and shower aperture includes Solite Soft Focus lens
- Interchangeable optics: 20°, 30°, 40°, or 60°
- Flangeless in wood ceiling installation available

### LUMEN MULTIPLIER (CRI/CCT)

CCT	80 CRI MULTIPLIER	90 CRI MULTIPLIER
2700K	0.95	0.80
3000K	1.00	0.85
3500K	1.05	0.90

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

### SPECIFICATIONS

	STATIC WHITE				WARM DIM	TUNABLE WHITE	
	HIGH OUTPUT		LOW OUTPUT		LOW OUTPUT	HIGH OUTPUT (5000K)	HIGH OUTPUT (4000K)
DELIVERED LUMENS	1500	1250	1163	930	850	919	830
WATTS	17	17	12	12	12	16	16
EFFICACY	88	73	97	77	71	57	52
CRI	80+	90+	80+	90+	90+	90+	
CBCP	20° - 5,136   30° - 4,644   40° - 3,050   60° - 1,764						
CCT	2700K, 3000K, or 3500K				3000K - 1800K	5000K - 2700K	4000K - 1800K
COLOR CONSISTENCY	1-step				2-step	2-step	
VOLTAGE	120V or 277V						
DIMMING <sup>1</sup>	Standard reverse-phase, forward-phase, TRIAC, and 0-10V dimming down to 1% eldoLED 0-10V or DALI-2 down to 0.1% Lutron Hi-lume EcoSystem down to 0.1%					eldoLED 0-10V or DALI-2 down to 0.1%	
POWER SUPPLY	Constant current driver with +.9 power factor and +80% efficiency						
OPTICS	20°, 30°, 40°, or 60°						
CEILING APPEARANCE	Flanged, flangeless, flangeless in wood ceiling						
CEILING THICKNESS	Flanged, flangeless, flangeless in wood ceiling 1/2" to 1 1/4"						
CEILING APERTURE	2-3/4" ceiling cutout						
HOUSING	IC Airtight, Chicago Plenum. IC suitable up to R60 spray foam insulation. Sauna/steam-room use available only with combination of H shower trim, LO low output housing, and I IC housing rating.						
CONSTRUCTION	Housing: Heavy-gauge, cold-rolled steel Trim: Die-cast aluminum						
FINISH	Housing: Black powder coat Trim: Antique Bronze, Black, Satin Nickel, or White (paintable)						
GENERAL LISTINGS	ETL Listed. Damp Location. Shower version Wet Listed.						
CALIFORNIA TITLE 24	Registered CEC appliance database. Complies with CEC 2019 Title 24 Part 6 (JA8-2016, JA8-2019) (for 90 CRI versions).						
L70	50,000 hours min						
WARRANTY <sup>2</sup>	5 years						

Data in chart reflect 3000K/80 CRI values unless noted.  
Custom output/custom RAL/custom CCT available, contact Quotes Department.

Ordering grids available on page 2.

<sup>1</sup>See visualcomfort.com for dimmer compatibility.

<sup>2</sup>Visit visualcomfort.com for specific warranty limitations and details.

# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT

### ORDERING GRIDS

#### HOUSING

PRODUCT	CEILING APPEARANCE	OUTPUT	CRI/CCT	BEAM SPREAD	FUNCTION	HOUSING RATING	DRIVER
<b>E2R</b> ELEMENT 2" ROUND	<b>L</b> FLANGELESS <sup>1</sup> <b>F</b> FLANGED	<b>-LH</b> HIGH OUTPUT, 17W <sup>3</sup> <b>-LO</b> LOW OUTPUT, 12W <sup>4</sup>	<b>827</b> 80 CRI, 2700K, 1-STEP <b>830</b> 80 CRI, 3000K, 1-STEP	<b>20</b> 20° <b>30</b> 30°	<b>DS</b> DOWNLIGHT	<b>I</b> IC AIRTIGHT <b>C</b> CHICAGO PLENUM	<b>INTEGRATED DRIVERS 120V/277V</b> UNIVERSAL PHASE/0-10V 1% (LEAVE BLANK) <sup>7</sup>
<b>E2S</b> ELEMENT 2" SQUARE	<b>WC</b> WOOD CEILING <sup>2</sup>		<b>835</b> 80 CRI, 3500K, 1-STEP <b>927</b> 90 CRI, 2700K, 1-STEP <b>930</b> 90 CRI, 3000K, 1-STEP <b>935</b> 90 CRI, 3500K, 1-STEP <b>9WD</b> 90 CRI, 3000K-1800K, WARM DIM, 2-STEP <sup>5</sup> <b>9TW52</b> 90 CRI, 5000K-2700K, TUNABLE WHITE, 2-STEP <sup>6</sup> <b>9TW41</b> 90 CRI, 4000K-1800K, TUNABLE WHITE, 2-STEP <sup>6</sup>	<b>40</b> 40° <b>60</b> 60°			<b>REMOTE DRIVERS 120V/277V<sup>8</sup></b> <b>-ELDO</b> ELDOLED 0.1% 0-10V LINEAR <b>-ELDDA</b> ELDOLED 0.1% 0-10V LOGARITHMIC <b>-ELDD</b> ELDOLED 0.1% DALI-2 <b>-ELDT</b> ELDOLED TUNABLE WHITE 0.1% 0-10V LINEAR <sup>6</sup> <b>-ELTD</b> ELDOLED TUNABLE WHITE 0.1% DALI-2 <sup>6</sup> <b>-HLECO</b> LUTRON HI-LUME 0.1% ECOSYSTEM

DS

Trims are required and must be ordered separately.

See dimmer compatibility chart.

<sup>1</sup>L - Flangeless housings do not utilize collars.

<sup>2</sup>WC - Flangeless in wood ceiling accommodates flangeless trims only.

<sup>3</sup>LH - High output is available for Wet Rated. Not rated for sauna/steam-room.

<sup>4</sup>LO - Sauna/steam-room use available only with combination of H shower trim, LO low output housing, and I IC housing rating.

<sup>5</sup>9WD - Warm dim 90 CRI only. Only available LO low output.

<sup>6</sup>9TW52/9TW41 - Tunable white only available as LH high output, only available with ELTO (0-10V, Linear) or ELTD (DALI-2). For 0-10V logarithmic dimming consult Quotes Department.

<sup>7</sup>Universal dimming is reverse-phase, forward-phase, TRIAC and 0-10V dimming. 277V is only compatible with 0-10V dimming.

<sup>8</sup>Remote drivers ship in 4.3" x 1.8" x 2.3" black enclosure for remote location mounting.

#### TRIM

PRODUCT	CEILING APPEARANCE	STYLE	APERTURE	FINISH
<b>E2R</b> ELEMENT 2" ROUND	<b>L</b> FLANGELESS <sup>1</sup>	<b>B</b> BEVEL	<b>-O</b> NO LENS	<b>W</b> WHITE (PAINTABLE)
<b>E2S</b> ELEMENT 2" SQUARE	<b>F6</b> FLANGED TRIM EXTENDER, 0.500" - 0.625" CEILING THICKNESS <sup>2</sup> <b>F7</b> FLANGED TRIM EXTENDER, 0.625" - 0.750" CEILING THICKNESS <sup>2</sup> <b>F8</b> FLANGED TRIM EXTENDER, 0.750" - 0.875" CEILING THICKNESS <sup>2</sup> <b>F1</b> FLANGED TRIM EXTENDER, 0.875" - 1.000" CEILING THICKNESS <sup>2</sup>	<b>F</b> FLAT	<b>-H</b> SHOWER <sup>3,4</sup> <b>-L</b> LENSED <sup>4</sup>	<b>B</b> BLACK <b>Z</b> ANTIQUE BRONZE <b>S</b> SATIN NICKEL

<sup>1</sup>L - For use with L flangeless or WC flangeless in wood ceiling housing.

<sup>2</sup>F6/F7/F8/F1 - Flanged trims with extenders for use with ceiling thickness greater than 0.500".

<sup>3</sup>H - Sauna/steam-room use available only with combination of H shower trim, LO low output housing, and I IC housing rating. Shower lens includes a gasket.

<sup>4</sup>H, L - Lensed products come with Solite Soft Focus lens.

#### LENSES/LOUVERS<sup>1</sup>

PRODUCT	TYPE
<b>MOC</b>	<b>GG</b> PLAIN GLASS <b>SF</b> SOFT FOCUS <b>LL</b> LINEAR SPREAD <b>EC</b> EGGCRATE LOUVER <b>LS1</b> 1" LONG SNOOT <b>LS12</b> 1/2" LONG SNOOT

#### REPLACEMENT OPTICS

PRODUCT	BEAM SPREAD
<b>353LEDGATOPT</b>	<b>20</b> 20° <b>30</b> 30° <b>40</b> 40° <b>60</b> 60°

#### PLASTER PLATES

PRODUCT	
<b>150E2RCL</b>	2" PLASTER PLATE ROUND SHEET METAL
<b>150E2SCL-A</b>	2" PLASTER PLATE SQUARE SHEET METAL

#### MOC

<sup>1</sup>Lenses/louvers mounted to lamp assembly only (max 2).

#### 353LEDGATOPT

Plaster plates are used to convert flanged housings into flangeless housings.  
Ships standard with flangeless housings.

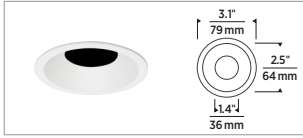


# ELEMENT™ 2" LED

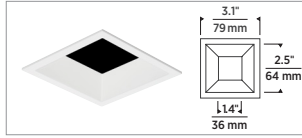
## ULTRA-SHALLOW FIXED DOWNLIGHT

### TRIMS

#### FLANGED

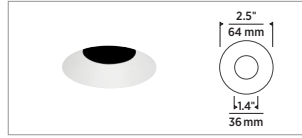


ROUND BEVEL

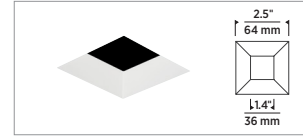


SQUARE BEVEL

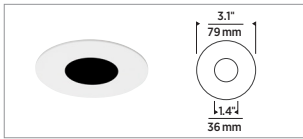
#### FLANGELESS



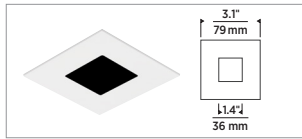
ROUND BEVEL



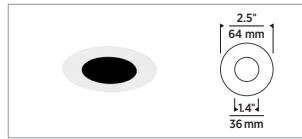
SQUARE BEVEL



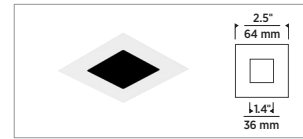
ROUND FLAT



SQUARE FLAT



ROUND FLAT



SQUARE FLAT

#### FINISH



ANTIQUE BRONZE



BLACK

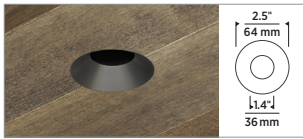


SATIN NICKEL

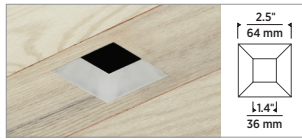


WHITE (PAINTABLE)

#### FLANGELESS IN WOOD CEILING



ROUND BEVEL (ANTIQUE BRONZE)



SQUARE BEVEL (SATIN NICKEL)



ROUND FLAT (ANTIQUE BRONZE)



SQUARE FLAT (SATIN NICKEL)

#### LENS OPTION



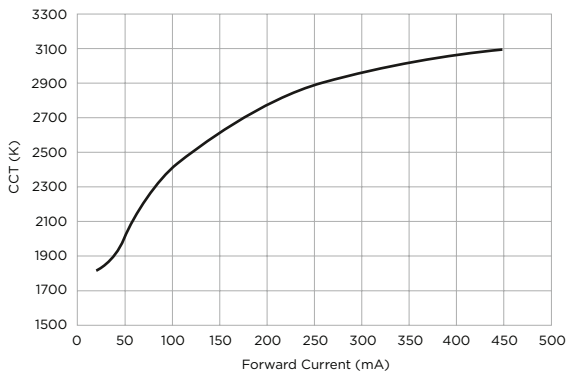
SHOWN WITH AND WITHOUT A LENS (SQUARE FLANGED BEVEL)



SHOWN WITH AND WITHOUT A LENS (ROUND FLANGELESS BEVEL)

#### WARM DIM CURVE

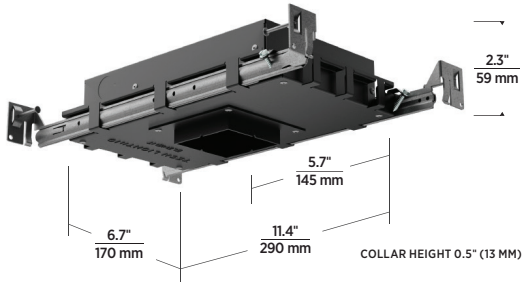
CCT vs. Forward Current,  $T_c=25^\circ\text{C}$



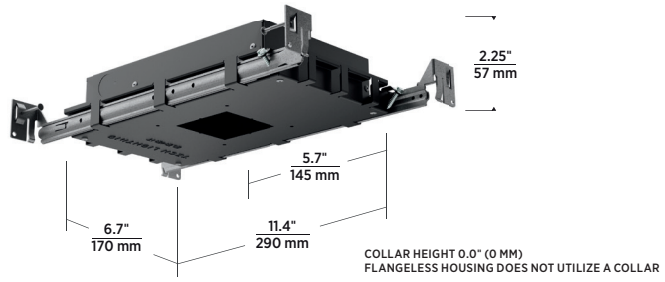
# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT

### HOUSING

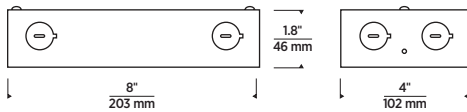


IC AIRTIGHT / CHICAGO PLENUM  
FLANGED

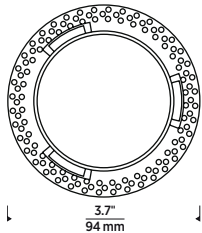


IC AIRTIGHT / CHICAGO PLENUM  
FLANGELESS / FLANGELESS IN WOOD CEILING

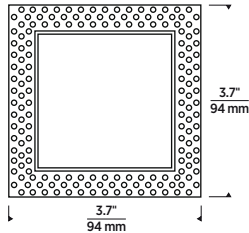
### REMOTE DRIVER J-BOX



### MUD/PLASTER PLATES



ROUND SHEET METAL  
MUD/PLASTER PLATE IS  
INCLUDED FOR FLANGELESS  
INSTALLATION

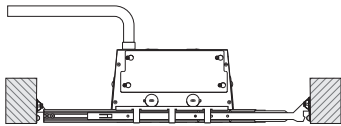


SQUARE SHEET METAL  
MUD/PLASTER PLATE IS  
INCLUDED FOR FLANGELESS  
INSTALLATION

### FLANGELESS IN WOOD CEILING INSTALLATION

**IMPORTANT:**  
READ INSTALLATION INSTRUCTIONS  
THOROUGHLY PRIOR TO INSTALL

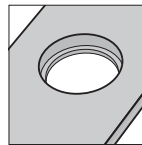
Assemble housing to joists.



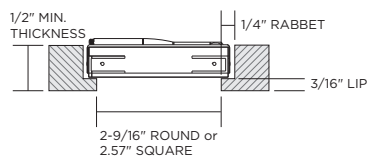
#### PREPARE WOOD CEILING

Use a 2-9/16" hole saw (round) or mill a 2.57" square opening in the wood. The wood must be at least 1/2" thick for the trims to hold firmly in place.

Use a 1/4" rabbet router bit to create a larger opening on the top side of the wood. The rabbet must cut to a depth that leaves 3/16" of wood above the ceiling level.

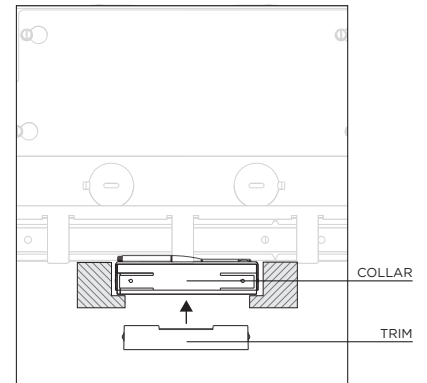


ROUTER CUT DETAIL



#### INSERT TRIM INTO THE COLLAR

Align the trim with the inner edge of the collar. Push the trim into the collar so that it snaps into place.















# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT

ELEMENT Specular Reflectors reduce glare while creating a clean, quiet ceiling appearance. These beautiful trim accessories have been specifically designed to minimize any effect on light performance, color, and output. Specular Reflectors are available for both adjustable and fixed downlights, and are compatible with ELEMENT 2" trims and housings.

- Can be easily installed or removed
- Assembles to existing trim
- Compatible with fixed and adjustable Housings

COMPATIBLE TRIMS	NON-SLOTTED (FOR FIXED)
 2" round, flanged, bevel	 <b>E2TREFNS3B</b>
 2" round, flanged, flat	 <b>E2TREFNS2B</b>
 2" round, flangeless, bevel	 <b>E2TREFNS3B</b>
 2" round, flangeless, flat	 <b>E2TREFNS2B</b>
 2" square, flangeless, bevel	 <b>E2TREFNS1B</b>
 2" square, flanged, bevel	 <b>E2TREFNS1B1</b>

Not compatible with lensed trims.

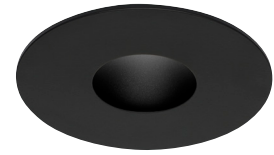
†Not compatible with flanged trim extenders F6, F7, F8, F1.

### ORDERING GRID

#### E2 TRIM MOUNTED REFLECTORS<sup>1</sup>

PRODUCT	STYLE	FINISH
<b>E2TREF</b>	<b>NS1</b> NON-SLOTTED	<b>B</b> ANODIZED BLACK
	<b>NS2</b> NON-SLOTTED	
	<b>NS3</b> NON-SLOTTED	
<b>E2TREF</b>		<b>B</b>

<sup>1</sup>Not compatible with lensed trims. Reflectors are placed on top of the inside of the trim or affixed via screws (only if provided).



BELOW CEILING VIEW



SHOWN MOUNTED TO TRIM



REFLECTOR ONLY

# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT

### PHOTOMETRICS

Description: 2" LED Module  
20° Beam - 0° Tilt, 3000K

Model: E2 Ultra-Shallow Fixed  
20° High Output

Input Power (Watts): 18.7  
Input Power Factor: 0.98

Absolute Luminous Flux (Lumens): 1206  
Lumen Efficacy (Lumens per Watt): 64.5

Description: 2" LED Module  
30° Beam - 0° Tilt, 3000K

Model: E2 Ultra-Shallow Fixed  
30° High Output

Input Power (Watts): 18.7  
Input Power Factor: 0.98

Absolute Luminous Flux (Lumens): 1414  
Lumen Efficacy (Lumens per Watt): 75.5

Description: 2" LED Module  
40° Beam - 0° Tilt, 3000K

Model: E2 Ultra-Shallow Fixed  
40° High Output

Input Power (Watts): 18.7  
Input Power Factor: 0.98

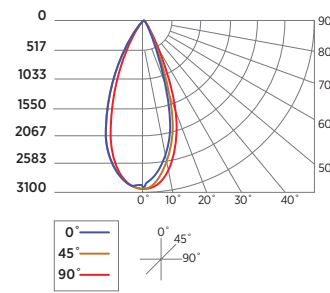
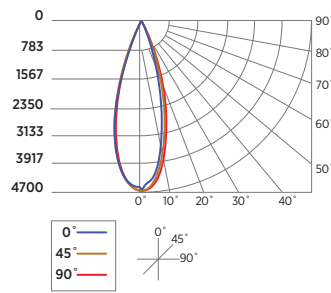
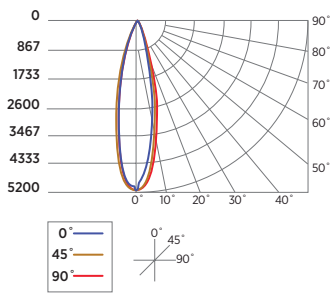
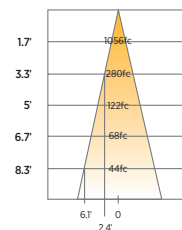
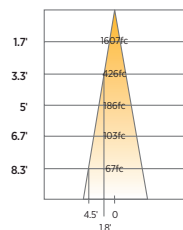
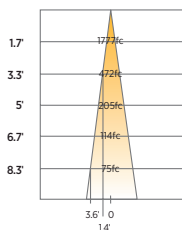
Absolute Luminous Flux (Lumens): 1565  
Lumen Efficacy (Lumens per Watt): 83.7

Output difference between CCTs - 5%, CRIs - 15%.

ANGLE	0°	45°	90°
0°	5136	5136	5136
5°	4054	4347	4616
10°	2654	2956	3278
15°	1383	1756	1896
20°	627	878	924
25°	249	326	393
30°	81	128	151
35°	24	65	50
40°	6	30	12
45°	3	6	4
50°	1	2	2
55°	1	1	1
60°	0	1	0
65°	0	1	0
70°	0	1	0
75°	0	1	0
80°	0	0	0
85°	0	0	0
90°	0	0	0

ANGLE	0°	45°	90°
0°	4644	4644	4644
5°	4184	4322	4434
10°	3249	3454	3698
15°	1948	2286	2488
20°	933	1178	1304
25°	342	428	544
30°	87	161	176
35°	27	68	52
40°	7	27	12
45°	2	5	4
50°	1	2	1
55°	0	1	0
60°	0	1	0
65°	0	1	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0
90°	0	0	0

ANGLE	0°	45°	90°
0°	3050	3050	3050
5°	2774	2892	2971
10°	2436	2549	2701
15°	1847	2085	2260
20°	1188	1460	1594
25°	571	776	959
30°	216	353	411
35°	84	142	154
40°	30	53	55
45°	11	18	20
50°	1	7	4
55°	0	2	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0
90°	0	0	0



# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT

### PHOTOMETRICS

Description: 2" LED Module  
60° Beam - 0° Tilt, 3000K

Model: E2 Ultra-Shallow Fixed  
60° High Output

Input Power (Watts): 18.7

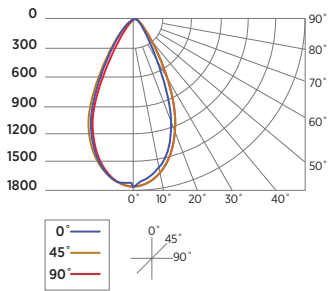
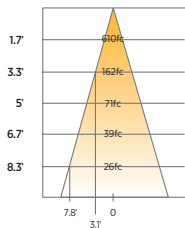
Input Power Factor: 0.98

Absolute Luminous Flux (Lumens): 1382

Lumen Efficacy (Lumens per Watt): 73.7

Output difference between CCTs - 5%, CRIs - 15%.

ANGLE	0°	45°	90°
0°	1764	1764	1764
5°	1667	1724	1721
10°	1562	1612	1629
15°	1380	1445	1483
20°	1109	1233	1235
25°	718	921	923
30°	442	638	542
35°	310	377	350
40°	208	239	238
45°	83	142	139
50°	1	70	26
55°	1	6	1
60°	0	1	0
65°	0	0	0
70°	0	1	0
75°	0	0	0
80°	0	0	0
85°	0	0	0
90°	0	0	0



# ELEMENT™ 2" LED

## ULTRA-SHALLOW FIXED DOWNLIGHT

### PROJECT INFORMATION

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### JOB NAME AND INFORMATION

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### FIXTURE TYPE AND QUANTITY

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