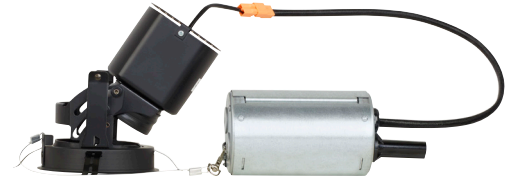


# ENTRA™ 3" LED

## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

The ENTRA 3" Remodel Adjustable LED downlight offers a cost-effective alternative to meet residential and commercial specifications on budget-sensitive projects. Custom engineered for high performance and reliability, ENTRA is easy to configure with a complete feature set that offers flexibility without an overwhelming list of options. ENTRA LED modules are available in high or low output, with 4 color temperatures and include 20°, 40°, and 65° interchangeable optics with hot-aiming (30° tilt; 359° rotation). Flanged or Flangeless (includes mud plate), round or square, flat or beveled die-cast trims in Black, Silver and a paintable White finish.



3" REMODEL ADJUSTABLE

- Hot-aiming (30° tilt; 359° rotation)
- Flanged or flangeless ceiling appearance
- 20°, 40°, and 65° interchangeable optics (all included)
- Accepts 2 optical controls
- Warm color dimming 3000K-1800K
- 2-step color binning

### LUMEN MULTIPLIER (CRI/CCT)

CCT	90 CRI MULTIPLIER
2700K	0.95
3000K	1.00
3500K	1.05
4000K	1.07

### SPECIFICATIONS

	HIGH OUTPUT	LOW OUTPUT	WARM DIM	
			HIGH OUTPUT	LOW OUTPUT
DELIVERED LUMENS	1311	980	925	715
WATTS	18	12	18	12
EFFICACY	73	82	49	59
CRI	90			
CBCP (AT 3000K)	20° - 4,994   40° - 2,544   65° - 1,091			
CCT	2700K, 3000K, 3500K, or 4000K		3000K - 1800K	
COLOR CONSISTENCY	2-step			
VOLTAGE	Universal 120V or 277V			
DIMMING <sup>1</sup>	Standard reverse-phase, forward-phase, TRIAC, and 0-10V dimming (down to 5%)			
POWER SUPPLY	Constant current driver with +.9 power factor and >87% efficiency			
OPTICS	20°, 40°, and 65° (all included)			
ADJUSTABILITY	0-30° tilt, 359° rotation			
CEILING APPEARANCE	Flanged or flangeless			
CEILING THICKNESS	Flanged or flangeless: 1/2" to 1"			
CEILING APERTURE	4" ceiling cutout			
HOUSING	Non-IC			
CONSTRUCTION	Trim: Die-cast aluminum			
FINISH	Housing: Black powder coat Trim: Black or White (paintable)			
GENERAL LISTINGS	ETL Listed. Damp Location. Shower version Wet Listed.			
L70	50,000 hours min			
WARRANTY <sup>2</sup>	5 years			

Data in chart reflect 3000K/90 CRI values unless noted.

Ordering grids available on page 2.

Accepts two optical controls and an optional trim-mounted lens.

<sup>1</sup>See [visualcomfort.com](http://visualcomfort.com) for dimmer compatibility.

<sup>2</sup>Visit [visualcomfort.com](http://visualcomfort.com) for specific warranty limitations and details.



# ENTRA™ 3" LED

## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

### ORDERING GRIDS

#### HOUSING

PRODUCT	LAMP	CRI	TEMPERATURE	BEAM	FUNCTION	HOUSING RATING	VOLTAGE
<b>EN3RR</b> ENTRA 3" ROUND REMODEL	<b>-LH</b> HIGH OUTPUT	<b>9</b> 90 CRI	<b>27</b> 2700K	<b>A</b> 20° - 40° - 65° <sup>1</sup>	<b>A</b> ADJUSTABLE <sup>2</sup>	<b>N</b> NON-IC	120 VOLT
<b>EN3SR</b> ENTRA 3" SQUARE REMODEL	<b>-LO</b> LOW OUTPUT		<b>30</b> 3000K				(LEAVE BLANK)
			<b>35</b> 3500K				<b>-277</b> 277 VOLT
			<b>40</b> 4000K				
			<b>WD</b> WARM DIM (3000K-1800K)				
	<b>-</b>	<b>9</b>		<b>A</b>	<b>A</b>	<b>N</b>	

Includes an LED driver with universal input 120V-277V, dimmable by reverse-phase, forward-phase, TRIAC, or 0-10V controls. 277V is only compatible with 0-10V dimming.

Housing ships with plaster plate for use on flangeless installation. Do not use plate for flanged installs.

Trims are required and must be ordered separately.

<sup>1</sup>A - LED module ships with 40° optic installed. Includes 20° and 65° optics as well.

<sup>2</sup>A - Use with 40° optic and adjust to 30° tilt for wall wash.

#### TRIM

PRODUCT	CEILING APPEARANCE	STYLE	APERTURE	FINISH
<b>EN3R</b> ENTRA 3" ROUND	<b>L</b> FLANGELESS 0.5" - .075" CEILING THICKNESS	<b>B</b> BEVEL	<b>-O</b> NO LENS	<b>B</b> BLACK <sup>3</sup>
<b>EN3S</b> ENTRA 3" SQUARE	<b>F</b> FLANGED 0.5" - 0.75" CEILING THICKNESS	<b>F</b> FLAT	<b>-H</b> SHOWER (SANDBLASTED LENS) <sup>2,3</sup>	<b>W</b> WHITE (PAINTABLE)
	<b>F1</b> FLANGED 0.75" - 1" CEILING THICKNESS	<b>W</b> WALL WASH <sup>1</sup>	<b>-S</b> SHOWER (SOLITE LENS) <sup>2,4</sup>	
			<b>-W</b> WALL WASH (LENSED) <sup>1</sup>	

<sup>1</sup>W - Wall wash style trim can only be used with wall wash lensed aperture (-W).

<sup>2</sup>H, S - Shower (Sandblasted lens or Solite lens) aperture requires bevel trim (B).

<sup>3</sup>H - Sandblasted shower lens not available in Black (B).

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

PRODUCT	
<b>140MR16SF</b>	SOLITE SOFT FOCUS LENS
<b>140MR16SB</b>	SANDBLASTED LENS
<b>140MR16LL</b>	LINEAR SPREAD LENS
<b>140MR16DF</b>	DIFFUSER SPREAD LENS
<b>140MR16GL</b>	CLEAR GLASS LENS
<b>700A02-BK</b>	EGGCRATE/HEXCELL LOUVER

<sup>1</sup>For additional lenses, louvers, optical controls and accessories, reference [visualcomfort.com](http://visualcomfort.com). Lens/louvers mounted to lamp assembly only (max 2).

#### PLASTER PLATES

PRODUCT	
<b>150EN3RPPLT</b>	ROUND STANDARD PLASTIC PLASTER PLATE <sup>1</sup>
<b>150EN3SPPLT</b>	SQUARE STANDARD PLASTIC PLASTER PLATE <sup>1</sup>

Plaster plates are used to convert flanged housings into flangeless housings.

<sup>1</sup>Ships standard with all ENTRA 3" housings.

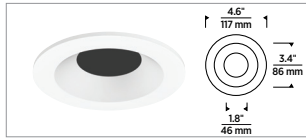


# ENTRA™ 3" LED

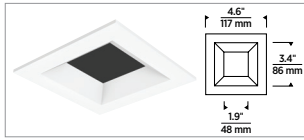
## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

### TRIMS

#### FLANGED

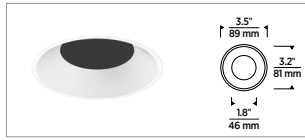


ROUND BEVEL

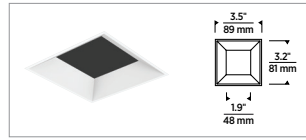


SQUARE BEVEL

#### FLANGELESS

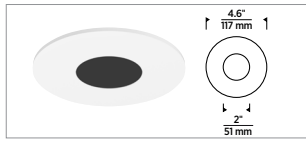


ROUND BEVEL

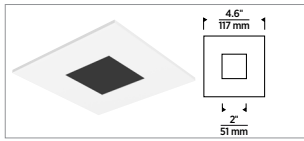


SQUARE BEVEL

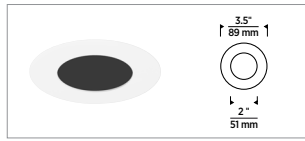
#### FINISH



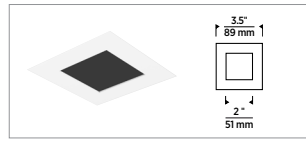
ROUND FLAT



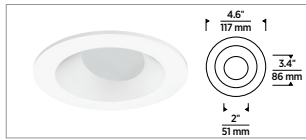
SQUARE FLAT



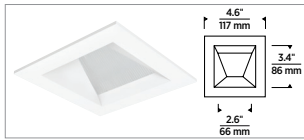
ROUND FLAT



SQUARE FLAT



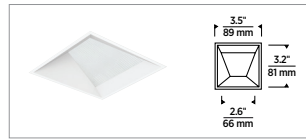
ROUND WALL WASH



SQUARE WALL WASH



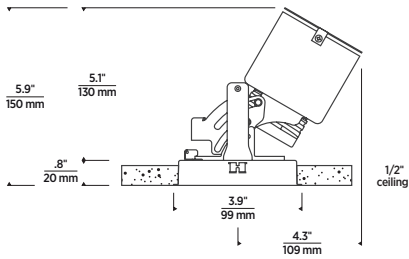
ROUND WALL WASH



SQUARE WALL WASH

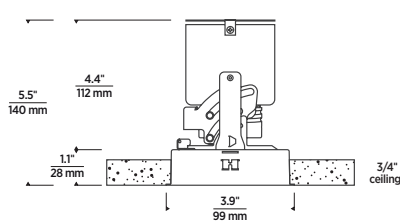
### MECHANISM

#### ROUND



SHOWN AT FULL TILT (30°)  
SHOW WITH SHORT COLLAR:  
ACCOMMODATES 1/2" - 5/8" CEILING HEIGHTS

#### SQUARE



SHOWN AT NO TILT (0°)  
SHOW WITH TALL COLLAR:  
ACCOMMODATES 3/4" - 1" CEILING HEIGHTS

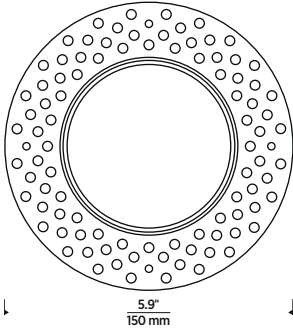
SHIPS WITH A SHORT COLLAR AND A TALL COLLAR TO ACCOMMODATE DIFFERENT CEILING HEIGHTS

# ENTRA™ 3" LED

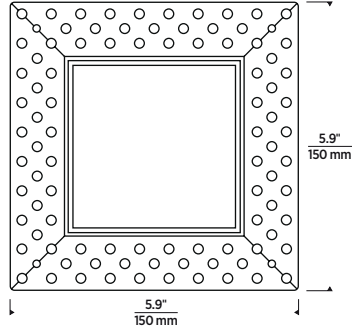
## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

### PLASTER PLATES

#### PLASTIC

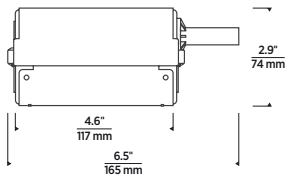


ROUND PLASTIC  
(INCLUDED FOR FLANGELESS INSTALLATION)



SQUARE PLASTIC  
(INCLUDED FOR FLANGELESS INSTALLATION)

### DRIVER

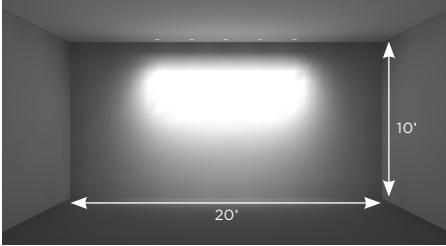


# ENTRA™ 3" LED

## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

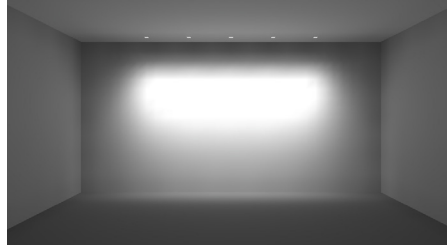
### WALL WASH PERFORMANCE

2' FROM WALL



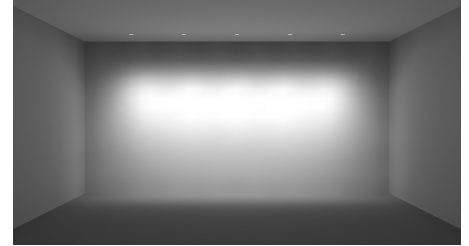
2' ON CENTER, 5 FIXTURES

2.5' FROM WALL



2.5' ON CENTER, 5 FIXTURES

3' FROM WALL



3' ON CENTER, 5 FIXTURES

### FOOT-CANDLES ON WALL FROM MULTIPLE FIXTURES

HEIGHT ON WALL	2' FROM WALL								
	┌-2-┐ on center		┌-2.5-┐ on center		┌-3-┐ on center				
10'	25.8	28.2	25.8	28.4	18.8	28.4	29	12.4	29
9'	43.8	53.2	43.8	48.9	40	48.9	50.8	28.6	50.8
8'	32.2	41.6	32.2	33.6	34.2	33.6	33.7	27.4	33.7
7'	20.1	25.9	20.1	20.2	22.5	20.2	19.9	19	19.9
6'	12.2	15.4	12.2	12.1	13.8	12.1	11.8	12.2	11.8
5'	7.6	9.3	7.6	7.4	8.5	7.4	7.2	7.7	7.2
4'	4.8	5.7	4.8	4.7	5.4	4.7	4.6	5	4.6
3'	3.2	3.7	3.2	3.1	3.5	3.1	3	3.3	3
2'	2.2	2.5	2.2	2.1	2.4	2.1	2.1	2.2	2.1
1'	1.5	1.7	1.5	1.5	1.6	1.5	1.5	1.6	1.5

HEIGHT ON WALL	2.5' FROM WALL								
	┌-2-┐ on center		┌-2.5-┐ on center		┌-3-┐ on center				
10'	8.8	11.8	8.8	8.9	9.4	8.9	8.7	7.1	8.7
9'	30.6	38.6	30.6	32.9	30.7	32.9	33.6	23.4	33.6
8'	30.3	39.1	30.3	31.2	33.1	31.2	31.1	27.3	31.1
7'	22.8	28.9	22.8	22.8	25.5	22.8	22.3	22	22.3
6'	15.4	19.2	15.4	15.2	17.5	15.2	14.8	15.6	14.8
5'	10.2	12.4	10.2	10	11.5	10	9.7	10.5	9.7
4'	6.8	8.1	6.8	6.7	7.6	6.7	6.5	7.1	6.5
3'	4.6	5.4	4.6	4.5	5.1	4.5	4.4	4.8	4.4
2'	3.2	3.6	3.2	3.1	3.5	3.1	3.1	3.3	3.1
1'	2.3	2.5	2.3	2.2	2.5	2.2	2.2	2.4	2.2

HEIGHT ON WALL	3' FROM WALL								
	┌-2-┐ on center		┌-2.5-┐ on center		┌-3-┐ on center				
10'	2.7	4	2.7	2.5	3.5	2.5	2.3	2.9	2.3
9'	18.3	24.5	18.3	18.7	20.6	18.7	18.6	16.6	18.6
8'	25	32.2	25	25.4	27.7	25.4	25.2	23.3	25.2
7'	22.4	28.1	22.4	22.2	25	22.2	21.7	22	21.7
6'	17	20.9	17	16.7	19.1	16.7	16.3	17.2	16.3
5'	12.1	14.6	12.1	11.9	13.6	11.9	11.6	12.5	11.6
4'	8.5	10	8.5	8.4	9.5	8.4	8.1	8.9	8.1
3'	6	6.9	6	5.9	6.6	5.9	5.7	6.3	5.7
2'	4.3	4.9	4.3	4.2	4.7	4.2	4.1	4.5	4.1
1'	3.1	3.5	3.1	3	3.4	3	3	3.2	3

# ENTRA™ 3" LED

## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

### PHOTOMETRICS

Description: 3" LED Module  
20° Beam - 0° Tilt, 3000K

Model: ENTRA Adjustable 20°  
Low Output

Input Power (Watts): 11.9  
Input Power Factor: 0.98

Absolute Luminous Flux (Lumens): 950  
Lumen Efficacy (Lumens per Watt): 80

Description: 3" LED Module  
40° Beam - 0° Tilt, 3000K

Model: ENTRA Adjustable 40°  
Low Output

Input Power (Watts): 11.9  
Input Power Factor: 0.98

Absolute Luminous Flux (Lumens): 979  
Lumen Efficacy (Lumens per Watt): 82

Description: 3" LED Module  
65° Beam - 0° Tilt, 3000K

Model: ENTRA Adjustable 65°  
Low Output

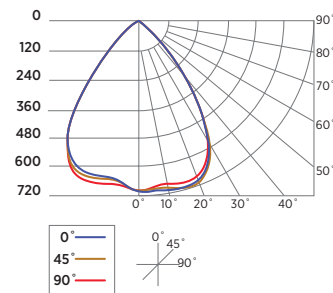
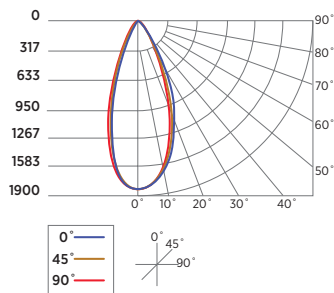
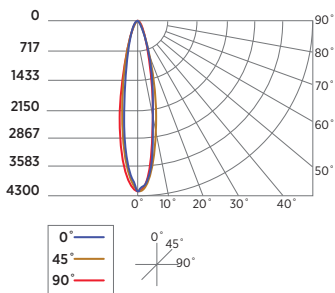
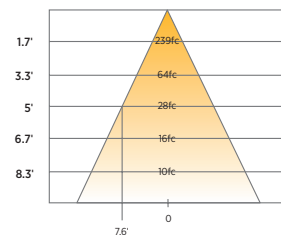
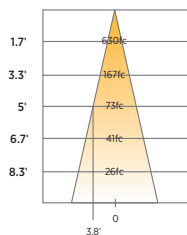
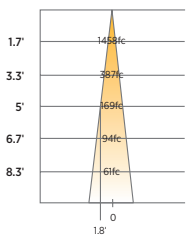
Input Power (Watts): 11.9  
Input Power Factor: 0.98

Absolute Luminous Flux (Lumens): 1022  
Lumen Efficacy (Lumens per Watt): 86

ANGLE	0°	45°	90°
0°	4213	4213	4213
5°	3746	3797	3620
10°	2524	2562	2359
15°	1429	1454	1292
20°	770	786	670
25°	435	439	358
30°	252	251	192
35°	132	136	99
40°	65	71	51
45°	30	38	24
50°	11	20	9
55°	5	9	4
60°	2	3	2
65°	1	1	1
70°	0	1	0
75°	0	0	0
80°	0	0	0
85°	0	0	0
90°	0	0	0

ANGLE	0°	45°	90°
0°	1822	1822	1822
5°	1771	1762	1770
10°	1624	1614	1588
15°	1413	1375	1289
20°	1130	1050	916
25°	795	700	562
30°	486	422	323
35°	267	242	175
40°	120	131	81
45°	49	65	33
50°	21	29	14
55°	10	10	7
60°	3	4	2
65°	0	2	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°	691	691	691
5°	701	691	680
10°	703	696	677
15°	708	707	686
20°	698	706	683
25°	658	667	647
30°	568	580	563
35°	436	449	436
40°	275	296	285
45°	145	161	150
50°	68	72	67
55°	28	30	28
60°	3	13	5
65°	0	3	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0
90°	0	0	0



# ENTRA™ 3" LED

## REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

### PHOTOMETRICS

Description: 3" LED Module  
20° Beam - 0° Tilt, 3000K

Model: ENTRA Adjustable 20°  
High Output

Input Power (Watts): 18.3  
Input Power Factor: 0.99

Absolute Luminous Flux (Lumens): 1311.9  
Lumen Efficacy (Lumens per Watt): 71.4

Description: 3" LED Module  
40° Beam - 0° Tilt, 3000K

Model: ENTRA Adjustable 40°  
High Output

Input Power (Watts): 18.3  
Input Power Factor: 0.99

Absolute Luminous Flux (Lumens): 1306.1  
Lumen Efficacy (Lumens per Watt): 71.1

Description: 3" LED Module  
65° Beam - 0° Tilt, 3000K

Model: ENTRA Adjustable 65°  
High Output

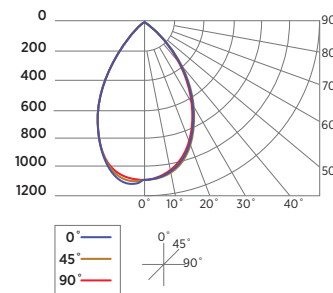
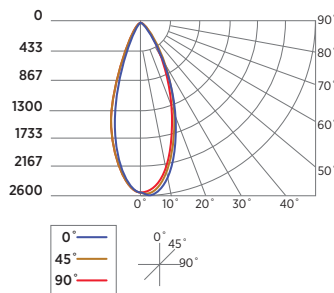
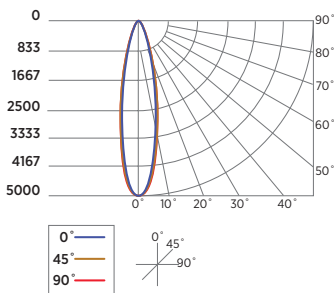
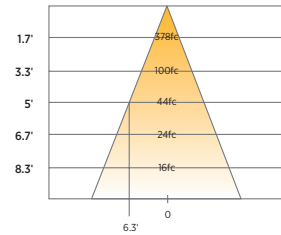
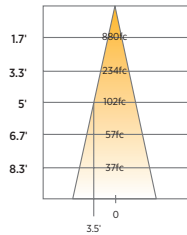
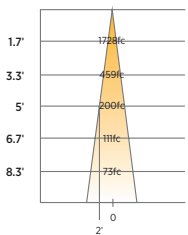
Input Power (Watts): 18.3  
Input Power Factor: 0.99

Absolute Luminous Flux (Lumens): 1255  
Lumen Efficacy (Lumens per Watt): 68.4

ANGLE	0°	45°	90°
0°	4994	4994	4994
5°	4241	4230	4370
10°	2808	2800	2940
15°	1686	1670	1736
20°	981	677	982
25°	570	564	546
30°	315	314	291
35°	176	178	161
40°	99	102	93
45°	56	60	53
50°	30	36	28
55°	17	20	16
60°	8	10	8
65°	2	5	1
70°	1	1	1
75°	1	1	1
80°	0	0	0
85°	0	0	0
90°	0	0	0

ANGLE	0°	45°	90°
0°	2544	2544	2544
5°	2550	2468	2426
10°	2299	2200	2134
15°	1893	1795	1711
20°	1406	1312	1217
25°	908	840	763
30°	528	492	440
35°	294	283	248
40°	155	163	136
45°	83	93	72
50°	46	52	40
55°	25	28	22
60°	10	15	8
65°	1	6	1
70°	1	1	1
75°	0	0	1
80°	0	0	0
85°	0	0	0
90°	0	0	0

ANGLE	0°	45°	90°
0°	1091	1091	1091
5°	1076	1070	1086
10°	1036	1039	1058
15°	982	985	995
20°	910	907	899
25°	811	803	774
30°	682	674	624
35°	537	525	460
40°	373	366	302
45°	234	226	179
50°	134	126	100
55°	68	65	50
60°	14	34	8
65°	1	7	1
70°	0	1	1
75°	0	1	1
80°	0	0	0
85°	0	0	0
90°	0	0	0



# ENTRA™ 3" LED

REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

## PROJECT INFORMATION

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## JOB NAME AND INFORMATION

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## FIXTURE TYPE AND QUANTITY

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VISUAL COMFORT & Co.

ARCHITECTURAL COLLECTION

FORMERLY KNOWN AS TECH LIGHTING

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