TECH LIGHTING

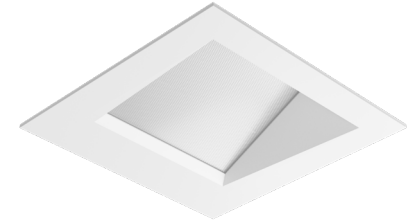# ELEMENT™ 3" LED
WALL WASH

The ELEMENT 3" Wall Wash provides best-in-class performance for a smooth and consistent flood of illumination vertically and horizontally along the wall without scalloping or hot spots, eliminating shadowing. Engineered with high lumen output, ELEMENT Wall Wash downlights are a great solution for illuminating large vertical surface areas and highlighting multiple focal points, texture and design.

- Luminit turning film, two directions
- Even vertical and horizontal illumination of wall
- High efficacy: 77 lumens per watt
- Standard phase dimming (down to 1%)

SHOWN IN FLANGED WALL WASH SQUARE

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		HIGH OUTPUT	LOW OUTPUT	HIGH OUTPUT (5000K)	HIGH OUTPUT (4000K[3])
DELIVERED LUMENS	1342	942	853	675	900	600	870	800
WATTS	17	17	12	12	17	12	15	15
EFFICACY	79	51	70	56	53	50	59	53
CRI	80+	90+	80+	90+	90+		90+	
CCT	2700K, 3000K, or 3500K				3000K - 1800K		5000K - 2700K	4000K - 1800K
COLOR CONSISTENCY	2-step				3-step		2-step	
VOLTAGE	120V or 277V							
DIMMING[1]	Standard reverse-phase, forward-phase, TRIAC and 0-10V dimming (down to 1%) eldoLED 0-10V or DALI-2 (down to 0.1%) Lutron has placed their LTEA (2-Wire) and 0.1% PEQ eco drivers on indefinite hold. Please consult Factory for alternative Lutron drivers (e.g. LDE 1%) or other driver solutions.						eldoLED 0-10V or DALI-2 (down to 0.1%)	
POWER SUPPLY	Constant current driver with +.9 power factor and +80% efficiency							
OPTICS	Luminit Turning Film, 2 directions							
ADJUSTABILITY	360° rotation, 45° collar rotation							
CEILING APPEARANCE	Flanged, flangeless or flangeless in wood ceiling							
CEILING THICKNESS	Flanged: Up to 2-1/2" (round flanged up to 1") Flangeless: No ceiling thickness limitations Flangeless in wood ceiling: 1/2" to 1-1/2"							
CEILING APERTURE	3-7/8" ceiling cutout							
HOUSING	IC Airtight, Chicago Plenum. IC suitable up to R60 spray foam insulation.							
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. Wet Listed.							
CALIFORNIA TITLE 24	Registered CEC Appliance Database. Can be used to comply with CEC 2019 Title 24 Part 6 (JA8-2016, JA8-2019) (for 90 CRI versions).							
L70	50,000 hours min							
WARRANTY[2]	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.
[1] See ELEMENT-Lighting.com for dimmer compatibility.
[2] Visit ELEMENT-Lighting.com for specific warranty limitations and details.
[3] 4000K - 1800K available as custom option only. Please consult Quotes Department.

UPDATED 11/28/22

TECH LIGHTING

ELEMENT™ 3" LED
WALL WASH

ORDERING GRIDS

HOUSING

PRODUCT	CEILING APPEARANCE	FUNCTION	OUTPUT	HOUSING RATING	DRIVER
E3R ELEMENT 3" ROUND **E3S** ELEMENT 3" SQUARE	**L** FLANGELESS **F** FLANGED **WC** WOOD CEILING[1]	**W** WALL WASH	**-LH** HIGH OUTPUT, 17W **-LO** LOW OUTPUT, 12W	**I** IC AIRTIGHT **C** CHICAGO PLENUM	**INTEGRATED DRIVERS 120V/277V** UNIVERSAL PHASE/0-10V 1% (LEAVE BLANK)[2] **-ELD0** ELDOLED 0.1% 0-10V LINEAR[3] **-ELD0A** ELDOLED 0.1% 0-10V LOGARITHMIC[3] **-ELDD** ELDOLED 0.1% DALI-2[3] **-ELT0** ELDOLED TUNABLE WHITE 0.1% 0-10V LINEAR[3,4] **-ELTD** ELDOLED TUNABLE WHITE 0.1% DALI-2[3,4]
		W	**-**		

Trims are required and must be ordered separately.
For dimming details, refer to dimmer compatibility chart.
[1]WC - Wood ceiling option accommodates flangeless trims only.
[2]Universal dimming is reverse-phase, forward-phase, TRIAC and 0-10V. 277V is only compatible with 0-10V dimming.
[3]EldoLED drivers not compatible with round flangeless (E3RL) or round wood ceiling (E3RWC) housings.
[4]ELT0/ELTD - Tunable white only available in high output, only available with ELT0 (0-10V, linear), or ELTD (DALI-2). For 0-10V logarithmic dimming consult Quotes Department.

> Lutron has placed their LTEA (2-Wire) and 0.1% PEQ eco drivers on indefinite hold. Please consult Factory for alternative Lutron drivers (e.g. LDE 1%) or other driver solutions.

TRIM

PRODUCT	CEILING APPEARANCE	FUNCTION	LAMP	FINISH
E3R ELEMENT 3" ROUND **E3S** ELEMENT 3" SQUARE	**L** FLANGELESS **F** FLANGED **F15** FLANGED 1.1"-1.5" CEILING THICKNESS[1] **F20** FLANGED 1.6"-2.0" CEILING THICKNESS[1] **F25** FLANGED 2.1"-2.5" CEILING THICKNESS[1]	**W** WALL WASH	**-827** 80 CRI, 2700K, 2-STEP **-830** 80 CRI, 3000K, 2-STEP **-835** 80 CRI, 3500K, 2-STEP **-927** 90 CRI, 2700K, 2-STEP **-930** 90 CRI, 3000K, 2-STEP **-935** 90 CRI, 3500K, 2-STEP **-WD** 90 CRI, 3000-1800K, WARM DIM, 3-STEP **-TW52** 90 CRI, 5000K-2700K, TUNABLE WHITE, 2-STEP[2]	**-Z** ANTIQUE BRONZE **-B** BLACK **-S** SATIN NICKEL **-W** WHITE
		W	**-**	**-**

[1]F15/F20/F25 - Compatible with square wall wash trims only. Round wall wash flanged trims accommodate up to 1" max ceiling thickness.
[2]TW52 - Tunable white only available In high output, only available with ELT0 (0-10V, linear), or ELTD (Dali-2). For 0-10V logarithmic dimming or for 4000K - 1800K option, consult Quotes Department.

PLASTER PLATES

PRODUCT	
150E3RPPLT-A	3" PLASTER PLATE | ROUND DIE-CAST METAL[1]
150E3SPPLT-A	3" PLASTER PLATE | SQUARE DIE-CAST METAL[1]
150E3RTPPLT-W	3" PLASTER PLATE | ROUND SHEET METAL[2]
150E3STPPLT-W	3" PLASTER PLATE | SQUARE SHEET METAL[2]

Plaster plates are used to convert flanged housings into flangeless housings.
[1]Ships standard with flangeless housings. Round not compatible with Lutron Hi-lume or eldoLED drivers.
[2]Optional, thinner, meshed sheet-metal mud plates available for minimized plaster feathering to meet installer preference. Round not compatible with Lutron Hi-lume or eldoLED drivers. Square not compatible with eldoLED drivers.

TECH LIGHTING

ELEMENT™ 3" LED
WALL WASH

TRIMS

FLANGED

4.3"
109 mm

2.3"
58 mm

ROUND WALL WASH

4.3"
109 mm

2.7"
69 mm

SQUARE WALL WASH

FLANGELESS

3.2"
81 mm

2.3"
58 mm

ROUND WALL WASH

3.2"
81 mm

2.7"
69 mm

SQUARE WALL WASH

FLANGELESS IN WOOD CEILING

3.2"
81 mm

2.3"
58 mm

ROUND (ANTIQUE BRONZE)

3.2"
81 mm

2.7"
69 mm
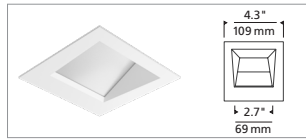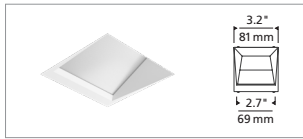
SQUARE (SATIN NICKEL)

FINISH

ANTIQUE BRONZE

BLACK

SATIN NICKEL

WHITE (PAINTABLE)

WARM DIM CURVE

CCT vs. Forward Current, T_c=25°C

CCT (K) vs. Forward Current (mA)

HOUSING

4"
102 mm

9.5"
241 mm

5.2"
132 mm

12.5"
318 mm

COLLAR HEIGHT 0.75" (19 MM)
(SEE INSTRUCTIONS FOR CEILING
THICKNESS < 0.75")

IC AIRTIGHT / CHICAGO PLENUM

TECH LIGHTING
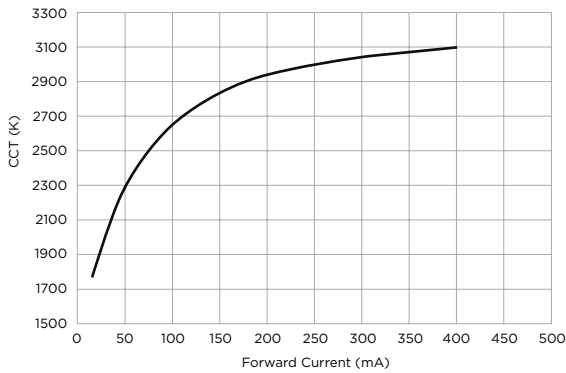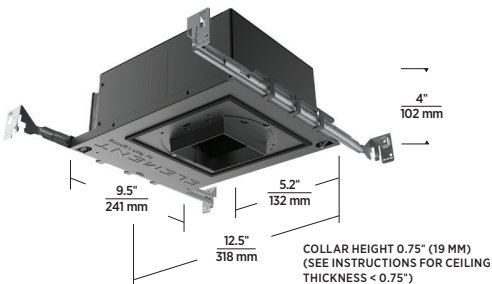
ELEMENT™ 3" LED
WALL WASH

The ELEMENT 3" Wall Wash provide a best-in-class solution for a smooth and consistent flood of light vertically and horizontally to illuminate a large surface area and highlight multiple focal points, texture and design without compromise. Refer to the charts and visuals below for performance guidance to help determine fixture space and ensure your lighting design meets your needs.

PERFORMANCE

- Delivered Lumens: 1,340
- High Efficacy: 79 Lumens per Watt
- Reduced shadowing near ceiling
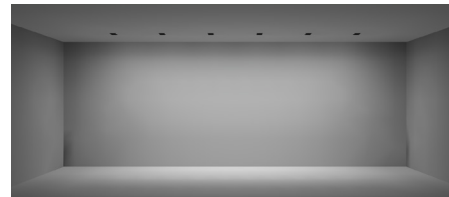- Low ratio between highest and lowest foot-candles prevents hot spots
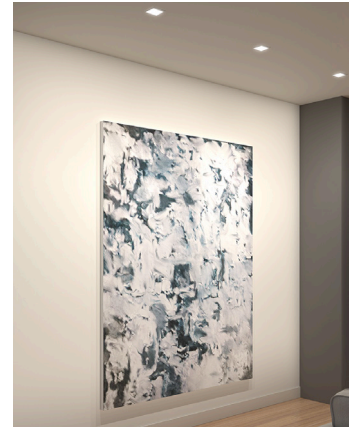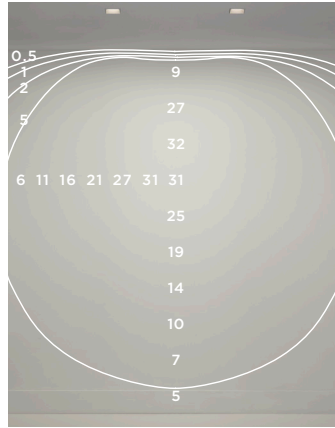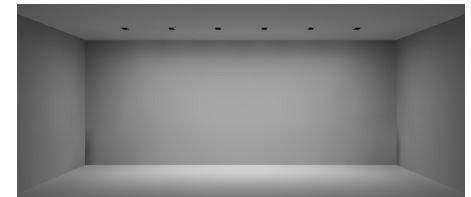

2.5' FROM WALL
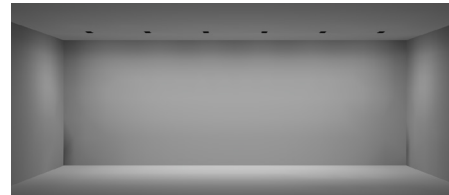

2.5' ON CENTER, 6 FIXTURES

3' ON CENTER, 6 FIXTURES
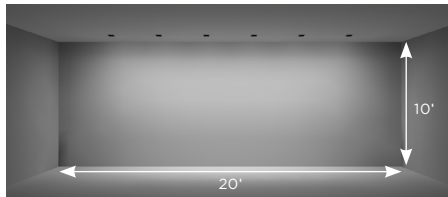
3.5' ON CENTER, 4 FIXTURES

3' FROM WALL

2.5' ON CENTER, 6 FIXTURES

3' ON CENTER, 6 FIXTURES

3.5' ON CENTER, 4 FIXTURES

3.5' FROM WALL
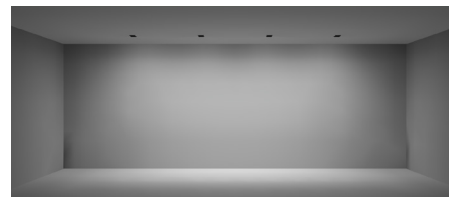

2.5' ON CENTER, 6 FIXTURES
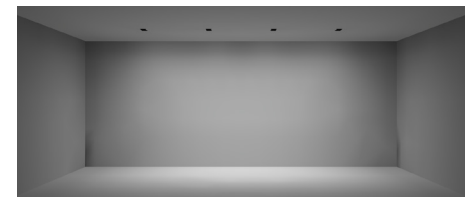

3' ON CENTER, 6 FIXTURES

3.5' ON CENTER, 4 FIXTURES

FOOT-CANDLES ON WALL FROM MULTIPLE FIXTURES

2.5' FROM WALL

HEIGHT ON WALL	2.5' on center			3' on center			3.5' on center		
9.5'	4.7	3.7	4.7	4.6	3.0	4.6	4.4	2.3	4.4
9'	15.2	14.0	15.2	14.6	11.5	14.6	14.1	9.3	14.1
8'	26.5	29.7	26.5	24.7	25.7	24.7	23.4	21.9	23.4
7'	28.9	32.8	28.9	26.6	29.7	26.6	24.7	26.5	24.7
6'	27.0	30.1	27.0	25.0	27.9	25.0	23.0	25.5	23.0
5'	21.5	23.7	21.5	20.1	22.3	20.1	18.6	20.9	18.6
4'	16.1	17.4	16.1	15.2	16.6	15.2	14.2	15.8	14.2
3'	11.7	12.5	11.7	11.2	12.1	11.2	10.6	11.6	10.6
2'	8.5	9.0	8.5	8.2	8.8	8.2	7.8	8.5	7.8
1'	6.3	6.6	6.3	6.0	6.4	6.0	5.8	6.3	5.8
0.5'	4.7	4.9	4.7	4.6	4.8	4.6	4.4	4.7	4.4

3' FROM WALL

HEIGHT ON WALL	2.5' on center			3' on center			3.5' on center		
9.5'	2.7	2.4	2.7	2.6	2.0	2.6	2.5	1.7	2.5
9'	9.5	9.3	9.5	9.0	8.0	9.0	8.6	6.7	8.6
8'	18.7	21.1	18.7	17.5	18.6	17.5	16.4	16.3	16.4
7'	21.2	23.8	21.2	19.6	22.0	19.6	18.1	20.1	18.1
6'	21.9	24.3	21.9	20.4	22.7	20.4	18.8	21.0	18.8
5'	19.5	21.2	19.5	18.3	20.1	18.3	17.0	18.9	17.0
4'	15.8	16.9	15.8	14.9	16.2	14.9	14.0	15.5	14.0
3'	12.2	13.0	12.2	11.7	12.6	11.7	11.1	12.1	11.1
2'	9.4	9.9	9.4	9.0	9.6	9.0	8.6	9.3	8.6
1'	7.1	7.5	7.1	6.9	7.3	6.9	6.6	7.1	6.6
0.5'	5.4	5.6	5.4	5.3	5.5	5.3	5.1	5.4	5.1

3.5' FROM WALL

HEIGHT ON WALL	2.5' on center			3' on center			3.5' on center		
9.5'	1.7	1.6	1.7	1.6	1.4	1.6	1.6	1.2	1.6
9'	6.4	6.5	6.4	6.0	5.7	6.0	5.7	4.9	5.7
8'	13.5	15.2	13.5	12.6	13.7	12.6	11.8	12.2	11.8
7'	16.3	18.2	16.3	15.2	17.0	15.2	14.0	15.7	14.0
6'	17.2	18.9	17.2	16.1	17.7	16.1	14.9	16.7	14.9
5'	16.6	18.0	16.6	15.7	17.1	15.7	14.7	16.2	14.7
4'	14.5	15.5	14.5	13.9	14.9	13.9	13.0	14.3	13.0
3'	12.0	12.7	12.0	11.5	12.3	11.5	10.9	11.8	10.9
2'	9.6	10.1	9.6	9.3	9.8	9.3	8.8	9.5	8.8
1'	7.6	7.9	7.6	7.4	7.7	7.4	7.1	7.5	7.1
0.5'	6.0	6.2	6.0	5.8	6.1	5.8	5.6	5.9	5.6

ELEMENT™ 3" LED
WALL WASH

PLASTER PLATES

INCLUDED DIE-CAST

7"
178 mm

7"
178 mm

7"
178 mm
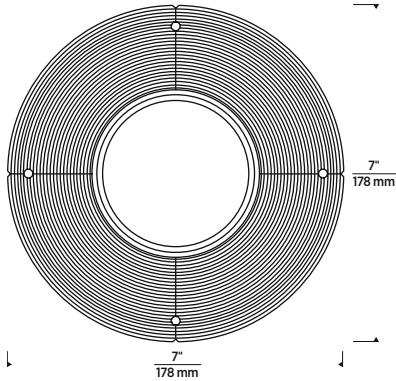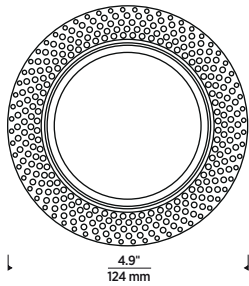
ROUND DIE-CAST (INCLUDED FOR FLANGELESS INSTALLATION)
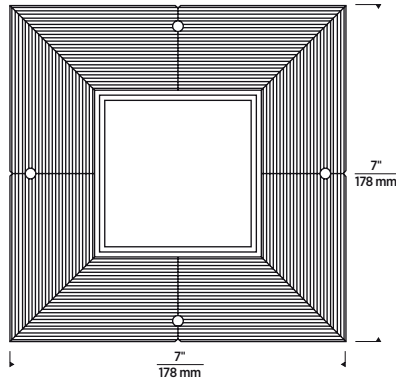
SQUARE DIE-CAST (INCLUDED FOR FLANGELESS INSTALLATION)

OPTIONAL SHEET METAL

4.9"
124 mm

4.9"
124 mm

4.9"
124 mm

ROUND SHEET METAL (OPTIONAL FOR FLANGELESS INSTALLATION)
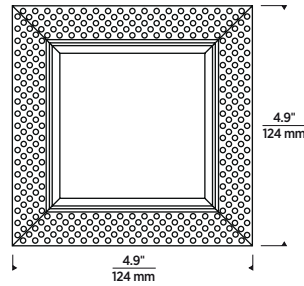
SQUARE SHEET METAL (OPTIONAL FOR FLANGELESS INSTALLATION)

FLANGELESS IN WOOD CEILING TRIM ADAPTER

TRIM ADAPTER INSTALLED

HOUSING

.85"
22 mm

HOUSING
COLLAR

TRIM ADAPTER FLUSH

HOUSING

HOUSING
COLLAR

1.5"
38 mm

.625"
16 mm

TRIM ADAPTER EXTENDED

HOUSING
COLLAR

TRIM ADAPTER —

INSTALL PRIOR TO CEILING
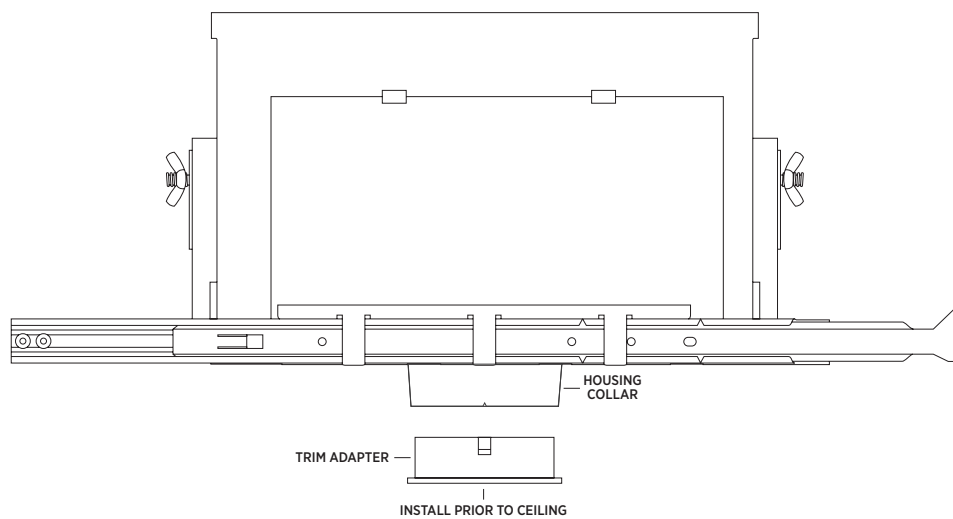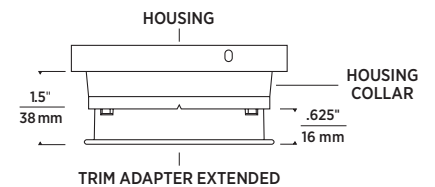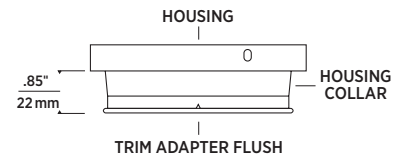
Wood ceiling housings ("WC" designation in the ordering grid) ship with an adjustable trim adapter that inserts into the housing aperture and allows standard ELEMENT 3" flangeless trims to achieve a truly flangeless, flush ceiling appearance in special applications such as wood or stone installation. For use in new construction. Consult installation instructions regarding plenum requirements and ceiling thickness ratios.

ELEMENT™ 3" LED
WALL WASH

PHOTOMETRICS

Description:	3" LED Wall Wash 80 CRI, 3000K
Model:	E3 Citizen LED - High Output
Input Power (Watts):	17.4
Input Power Factor:	0.98
Absolute Luminous Flux (Lumens):	1342
Lumen Efficacy (Lumens per Watt):	77

Description:	3" LED Wall Wash 90 CRI, 3000K
Model:	E3 Citizen LED - Low Output
Input Power (Watts):	18
Input Power Factor:	0.98
Absolute Luminous Flux (Lumens):	924
Lumen Efficacy (Lumens per Watt):	51.2

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

ANGLE	0°	45°	90°
0°	750	750	750
5°	886	839	740
10°	1002	913	722
15°	1044	968	693
20°	1024	971	654
25°	921	918	603
30°	784	836	539
35°	632	712	460
40°	490	580	362
45°	368	452	262
50°	290	344	186
55°	239	252	140
60°	195	185	107
65°	154	131	77
70°	117	88	51
75°	83	56	29
80°	53	30	13
85°	23	11	4
90°	0	0	0

ANGLE	0°	45°	90°
0°	600	600	600
5°	755	688	580
10°	878	752	545
15°	963	779	492
20°	997	766	427
25°	970	714	358
30°	887	630	288
35°	751	529	218
40°	580	419	155
45°	406	311	109
50°	259	215	77
55°	152	136	53
60°	80	79	35
65°	36	42	21
70°	15	18	13
75°	7	7	8
80°	4	4	5
85°	1	1	2
90°	0	0	0

Left diagram (High Output):
- 1.7' : 260fc
- 3.3' : 69fc
- 5' : 30fc
- 6.7' : 17fc
- 8.3' : 11fc
- 7.3' 4.4' 0

Right diagram (Low Output):
- 1.7' : 208fc
- 3.3' : 55fc
- 5' : 24fc
- 6.7' : 13fc
- 8.3' : 9fc
- 7.1' 4.3' 0

Left polar chart:
0, 183, 367, 550, 733, 917, 1100
90°, 80°, 70°, 60°, 50°
0° 10° 20° 30° 40°
Legend: 0°, 45°, 90° — 0° 45° 90°

Right polar chart:
0, 167, 333, 500, 667, 833, 1000
90°, 80°, 70°, 60°, 50°
0° 10° 20° 30° 40°
Legend: 0°, 45°, 90° — 0° 45° 90°

TECH LIGHTING

ELEMENT™ 3" LED
WALL WASH

PROJECT INFORMATION

JOB NAME AND INFORMATION

FIXTURE TYPE AND QUANTITY

NOTES

TECH LIGHTING

VISUAL COMFORT & CO.