

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 and a paintable White finish.

- 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 static white and warm dim
- Standard reverse-phase, forward-phase, TRIAC, and 0-10V dimming down to 1%



3" REMODEL ADJUSTABLE

LUMEN/CBCP MULTIPLIERS

CCT	90 CRI MULTIPLIER
2200K	0.60
2400K	0.83
2700K	0.92
3000K	1.00
3500K	1.03
4000K	1.07

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

SPECIFICATIONS

	STATIC WHITE		WARM DIM	
	HIGH OUTPUT	LOW OUTPUT	HIGH OUTPUT	LOW OUTPUT
DELIVERED LUMENS	1311	980	925	715
WATTS	18	12	18	12
EFFICACY	73	82	49	59
CRI	90			
CBCP	20° - 4,994 40° - 2,544 65° - 1,091			
CCT	2200K, 2400K, 2700K, 3000K, 3500K, or 4000K		3000K-1800K	
COLOR CONSISTENCY	2-step			
VOLTAGE	Universal 120V or 277V			
DIMMING¹	Standard reverse-phase, forward-phase, TRIAC, and 0-10V dimming down to 1%			
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			
WARRANTY²	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.
 ¹See visualcomfort.com for dimmer compatibility.
 ²Visit visualcomfort.com for specific warranty limitations and details.
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ENTRA™ 3" LED

REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

ORDERING GRIDS

HOUSING

PRODUCT	LAMP	CRI	CCT	BEAM	FUNCTION	HOUSING RATING	VOLTAGE
EN3RR ENTRA 3" ROUND REMODEL	-LH HIGH OUTPUT	9 90 CRI	22 2200K, STATIC WHITE, 2-STEP	A 20° - 40° - 65° ¹	A ADJUSTABLE ²	N NON-IC	120 VOLT (LEAVE BLANK)
EN3SR ENTRA 3" SQUARE REMODEL	-LO LOW OUTPUT		24 2400K, STATIC WHITE, 2-STEP				-277 277 VOLT
			27 2700K, STATIC WHITE, 2-STEP				
			30 3000K, STATIC WHITE, 2-STEP				
			35 3500K, STATIC WHITE, 2-STEP				
			40 4000K, STATIC WHITE, 2-STEP				
			WD WARM DIM (3000K-1800K), 2-STEP				
	-	9		A	A	N	

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 die-cast plaster plate for use on flangeless installation. Do not use plate for flanged installs.

Trims are required and must be ordered separately.

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

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

TRIM

PRODUCT	CEILING APPEARANCE	STYLE	APERTURE	FINISH
EN3R ENTRA 3" ROUND	L FLANGELESS	B BEVEL ¹	-O NO LENS	B BLACK
EN3S ENTRA 3" SQUARE	L15 FLANGELESS 1" - 1.5" CEILING THICKNESS ¹	F FLAT	-S SHOWER (SOLITE LENS) ³	W WHITE (PAINTABLE)
	F FLANGED 0.5" - 0.75" CEILING THICKNESS	W WALL WASH ²	-H SHOWER (SANDBLASTED LENS) ^{3,4}	
	F1 FLANGED 0.75" - 1" CEILING THICKNESS		-W WALL WASH (LENSED) ²	
	F15 FLANGED 1" - 1.5" CEILING THICKNESS ¹			
			-	

¹B - Bevel not available in flangeless ceiling appearance.

²W - Wall wash style trim can only be used with wall wash lensed aperture (-W). Wall wash not available with thicker ceiling trims (L15 and F15) as standard. Available through quotes as custom.

³H/S - Shower (Sandblasted or Solite) lens aperture requires bevel trim (B). Sauna/steam-room use available only with combination of low output housing (-LO) and shower trim (H or S). Shower lens includes a gasket.

⁴H - Sandblasted shower lens not available with thicker ceiling trims (L15 and F15). Not available with black trim (B).

REFLECTOR TRIMS

PRODUCT	
EN3TREFNS1	ROUND, BEVEL, FIXED
EN3TREFNS1	ROUND, FLAT, FIXED
EN3TREFNS2	SQUARE, BEVEL, FIXED
EN3TREFNS2	SQUARE, FLAT, FIXED
EN3TREFS1	ROUND, BEVEL, ADJUSTABLE
EN3TREFS2	ROUND, FLAT, ADJUSTABLE
EN3TREFS1	SQUARE, BEVEL, ADJUSTABLE

Square, flat, adjustable is not available.

Not for use with sloped ceilings.

LENSES/LOUVERS¹

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

¹For additional lenses, louvers, optical controls and accessories, reference visualcomfort.com. Lens/louvers mounted to lamp assembly only (max 2).

LENS KIT

PRODUCT	CEILING APPEARANCE	STYLE	APERTURE
240EN3R ENTRA 3" ROUND KIT	L FLANGELESS	B BEVEL ¹	S SHOWER (SOLITE LENS) ²
240EN3S ENTRA 3" SQUARE KIT	F FLANGED	F FLAT	
			S

Lens kits can be used to convert open trims (No Lens) to Shower (Solite Lens) trims in the field.

¹B - Bevel not available in flangeless ceiling appearance.

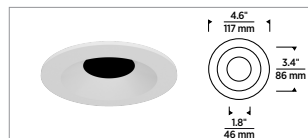
²S - Shower (Solite) lens aperture requires bevel trim (B). Sauna/steam-room use available only with combination of low output housing (-LO) and shower trim (H or S). Shower lens includes a gasket.

ENTRA™ 3" LED

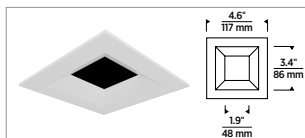
REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

TRIMS

FLANGED

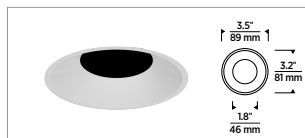


ROUND BEVEL

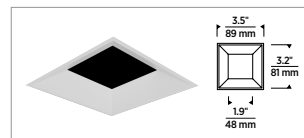


SQUARE BEVEL

FLANGELESS



ROUND BEVEL



SQUARE BEVEL

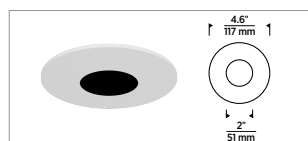
FINISH



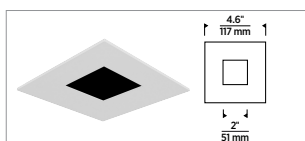
BLACK



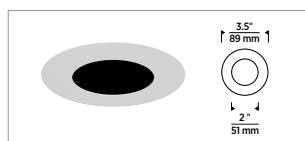
WHITE
(PAINTABLE)



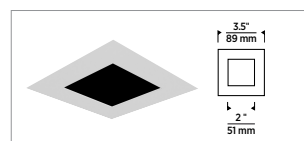
ROUND FLAT



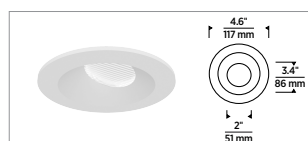
SQUARE FLAT



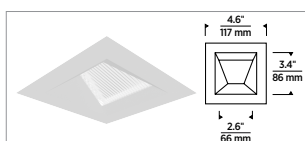
ROUND FLAT



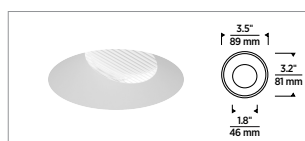
SQUARE FLAT



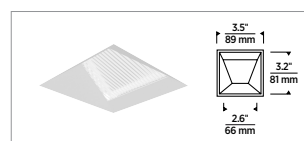
ROUND WALL WASH



SQUARE WALL WASH



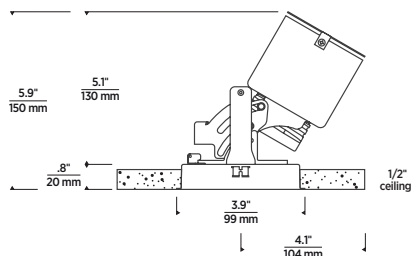
ROUND WALL WASH



SQUARE WALL WASH

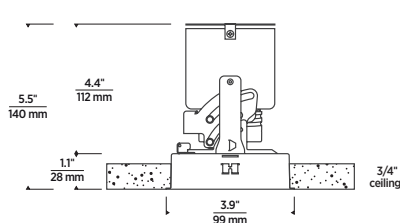
MECHANISM

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

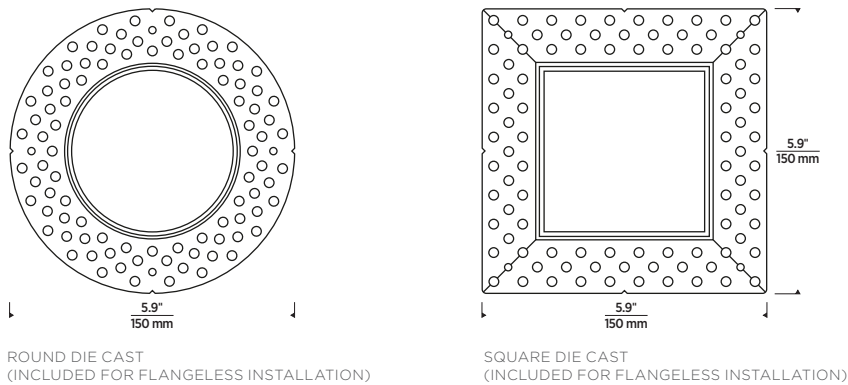
SHIPS WITH A SHORT COLLAR AND A TALL COLLAR TO ACCOMMODATE DIFFERENT CEILING HEIGHTS

ENTRA™ 3" LED

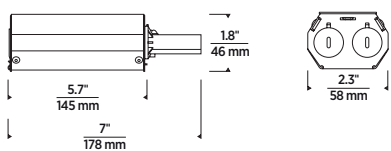
REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

PLASTER PLATES

DIE CAST



DRIVER

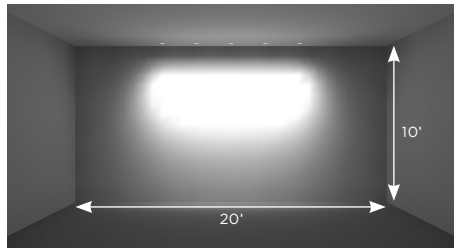


ENTRA™ 3" LED

REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

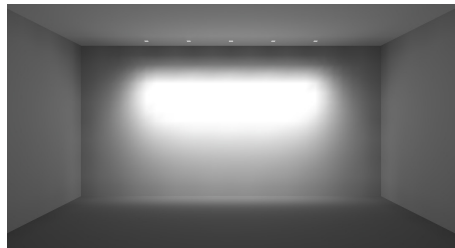
WALL WASH PERFORMANCE

2' FROM WALL



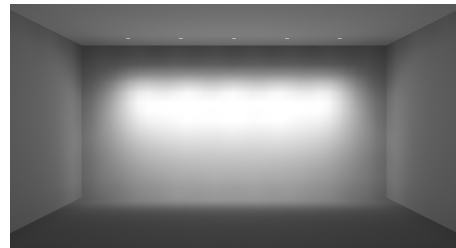
2' ON CENTER, 5 FIXTURES

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'	0.4	0.8	0.4	0.5	0.8	0.5	0.5	0.6	0.5
9'	28.9	33.3	28.9	28.5	25.8	28.5	27.2	20.3	27.2
8'	63.1	71.6	63.1	63.5	54.1	63.5	61.0	38.1	61.0
7'	48.7	55.8	48.7	46.5	46.3	46.5	43.2	36.7	43.2
6'	29.9	32.7	29.9	27.7	28.5	27.7	25.3	24.6	25.3
5'	18.2	18.6	18.2	16.5	16.7	16.5	14.8	14.7	14.8
4'	10.9	10.7	10.9	10.0	9.9	10.0	9.0	9.0	9.0
3'	6.8	6.3	6.8	6.2	6.0	6.2	5.6	5.6	5.6
2'	4.5	3.9	4.5	4.1	3.8	4.1	3.7	3.6	3.7
1'	3.0	2.5	3.0	2.7	2.5	2.7	2.5	2.4	2.5

HEIGHT ON WALL	2.5' FROM WALL								
	└─2─┐ on center			└─2.5─┐ on center			└─3─┐ on center		
10'	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
9'	10.3	12.9	10.3	9.4	11.5	9.4	8.5	11.0	8.5
8'	37.8	47.9	37.8	38.0	38.9	38.0	37.1	30.1	37.1
7'	45.0	54.0	45.0	42.6	45.8	42.6	39.9	37.2	39.9
6'	33.7	38.1	33.7	32.0	34.1	32.0	29.8	29.6	29.8
5'	23.0	24.2	23.0	21.5	22.2	21.5	19.7	19.9	19.7
4'	15.1	15.1	15.1	14.2	14.1	14.2	13.0	12.9	13.0
3'	9.8	9.4	9.8	9.2	9.0	9.2	8.5	8.4	8.5
2'	6.5	6.0	6.5	6.1	5.8	6.1	5.6	5.5	5.6
1'	4.5	4.0	4.5	4.2	3.9	4.2	3.9	3.7	3.9

HEIGHT ON WALL	3' FROM WALL								
	└─2─┐ on center			└─2.5─┐ on center			└─3─┐ on center		
10'	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9'	4.1	5.8	4.1	3.7	5.7	3.7	3.3	5.3	3.3
8'	21.2	27.6	21.2	20.5	23.6	20.5	19.4	19.1	19.4
7'	33.6	41.3	33.6	32.5	36.2	32.5	30.8	30.7	30.8
6'	33.0	38.1	33.0	31.6	34.7	31.6	29.6	30.6	29.6
5'	25.2	27.1	25.2	23.8	25.1	23.8	22.2	22.9	22.2
4'	18.1	18.3	18.1	17.0	17.2	17.0	15.9	16.0	15.9
3'	12.4	12.2	12.4	11.8	11.7	11.8	11.1	11.0	11.1
2'	8.6	8.2	8.6	8.1	7.9	8.1	7.6	7.5	7.6
1'	6.0	5.5	6.0	5.7	5.4	5.7	5.4	5.2	5.4

ENTRATM 3" LED
 REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

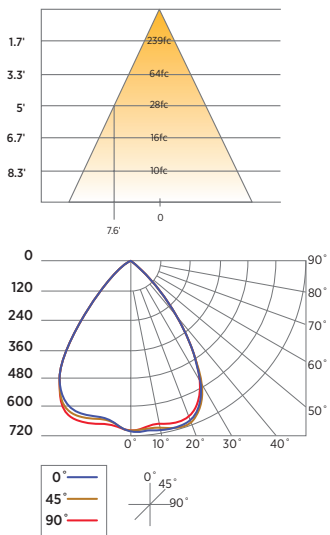
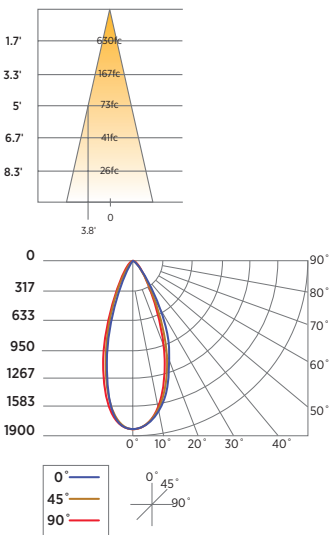
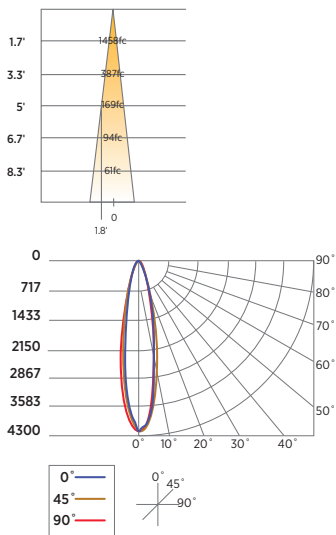
PHOTOMETRICS

Description:	ENTRA 3" LED 20° Beam, 0° Tilt 90 CRI, 3000K Low Output	Description:	ENTRA 3" LED 40° Beam, 0° Tilt 90 CRI, 3000K Low Output	Description:	ENTRA 3" LED 65° Beam, 0° Tilt 90 CRI, 3000K Low Output
Input Power (Watts):	11.9	Input Power (Watts):	11.9	Input Power (Watts):	11.9
Input Power Factor:	0.98	Input Power Factor:	0.98	Input Power Factor:	0.98
Absolute Luminous Flux (Lumens):	950	Absolute Luminous Flux (Lumens):	979	Absolute Luminous Flux (Lumens):	1022
Lumen Efficacy (Lumens per Watt):	80	Lumen Efficacy (Lumens per Watt):	82	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



ENTRATM 3" LED
 REMODEL ADJUSTABLE DOWNLIGHT & WALL WASH

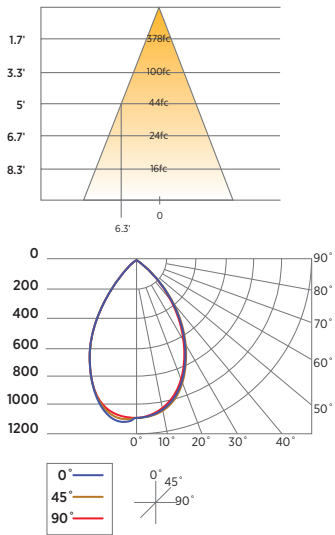
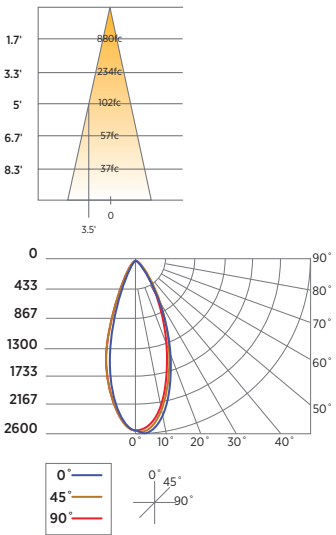
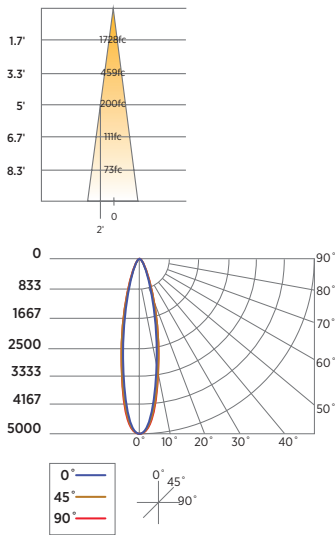
PHOTOMETRICS

Description:	ENTRA 3" LED 20° Beam, 0° Tilt 90 CRI, 3000K High Output	Description:	ENTRA 3" LED 40° Beam, 0° Tilt 90 CRI, 3000K High Output	Description:	ENTRA 3" LED 65° Beam, 0° Tilt 90 CRI, 3000K High Output
Input Power (Watts):	18.3	Input Power (Watts):	18.3	Input Power (Watts):	18.3
Input Power Factor:	0.99	Input Power Factor:	0.99	Input Power Factor:	0.99
Absolute Luminous Flux (Lumens):	1311.9	Absolute Luminous Flux (Lumens):	1306.1	Absolute Luminous Flux (Lumens):	1255
Lumen Efficacy (Lumens per Watt):	71.4	Lumen Efficacy (Lumens per Watt):	71.1	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

JOB NAME AND INFORMATION

FIXTURE TYPE AND QUANTITY

NOTES