

# X-Cel Optical 2014 Lens Technical Data

## Plastic CR-39 Clear Lenses

### 71mm XLT Plastic Lenses

All Styles Unless listed Separately

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
71mm	Plano	0.00	0.000	7.9	15.6	-6.21	-12.00 to -7.25
71mm	2.25	2.25	1.336	10.6	15.6	-6.21	-7.00 to -4.25
71mm	4.25	4.31	2.568	9.7	12.2	-6.21	-4.00 to -2.25
71mm	6.25	6.27	3.780	7.7	7.7	-6.21	-2.00 to +2.00
71mm	8.25	8.29	5.091	10.7	7.7	-6.21	+2.25 to +4.00
71mm	10.25	10.39	6.546	14.2	7.7	-6.21	+4.25 to +7.00
71mm	12.25	12.38	8.058	18.6	7.7	-6.21	+7.25 to +9.00
71mm	14.25	14.22	9.628	20.0	12.2	-6.21	+9.00 to +12.00

**Segment Locations are:**

71mm D-25,28,35 5 In/5 Dn    71mm Rd-22 7 Dn    71mm 7X25,7X28,7X35 5 In 2 Dn

### 75mm XLT Plastic Lenses

All Styles Unless listed Separately

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
75mm	-4.25	-4.33	-2.581	11.6	17.0	Plano	-17.00 to -14.25
75mm	-2.25	-2.25	-1.328	14.4	17.0	Plano	-14.00 to 10.25
75mm	0.50	0.49	0.289	8.7	16.7	-6.21	-10.00 to -7.25
75mm	2.25	2.26	1.336	11.0	16.7	-6.21	-7.00 to -4.25
75mm	4.25	4.31	2.568	10.0	12.2	-6.21	-4.00 to -2.25
75mm	6.25	6.27	3.780	7.8	7.8	-6.21	-2.00 to +2.00
75mm	8.25	8.29	5.091	11.3	7.8	-6.21	+2.25 to +4.00

**Segment Locations are:**

75mm D-25,28,35 5 In/7 Dn    75mm Rd-22 7 Dn    75mm Blended 25 5 Dn  
75mm 7X25,7X28,7X35 5 In/4 Dn    75mm 8X35 2 Base 5 In/3 Dn

### 81mm XLT Plastic Lenses

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
81mm	4.25	4.30	2.562	10.0	12.1	-6.21	-4.00 to -2.25
81mm	6.25	6.27	3.782	7.9	7.9	-6.21	-2.00 to +2.00
81mm	8.25	8.29	5.091	12.1	7.9	-6.21	+2.25 to +4.00

**Segment Locations are:**

81mm D-28 6 In/6.5 Dn    81mm D-35 6 In/5.5 Dn    81mm Rd-24 9.5 Dn  
81mm 7X28 6 In/3.5 Dn    81mm 8X35 6 In/2.5 Dn

### 75mm XLT Occupational Double-D Style Plastic Lenses

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
75mm	4.25	4.31	2.568	13.0	13.0	-4.30	-4.00 to -2.25
75mm	6.25	6.27	3.780	11.1	8.0	-4.30	-2.00 to +2.00
75mm	8.25	8.29	5.091	14.6	8.0	-4.30	+2.25 to +4.00

**Segment Locations are:**

75mm DD-28 5 In/7 Dn  
75mm DD-35 5 In/7 Dn

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## Plastic CR-39 Clear Lenses

### All OLT SFSV, D-25, D-28, Rd22

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
71/74/75mm	4.25	4.30	2.560	12.1	12.0	-4.00	-4.00 to -2.25
71/74/75mm	6.25	6.20	3.740	7.7	8.0	-6.00	-2.00 to +2.00
71/74/75mm	8.25	8.77	5.410	11.3	8.0	-6.00	+2.25 to +4.00

**Segment Locations are:**

71mm D-25, 28 6 In/7 Dn      75mm D-28 6 In/6 Dn      74mm Rd-22 9.5 Dn

### 75mm Acclaim 61™

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
75mm	4.25	4.31	2.568	10.0	12.2	-6.21	-4.00 to -2.25
75mm	6.25	6.27	3.780	7.8	7.8	-6.21	-2.00 to +2.00
75mm	8.25	8.29	5.091	11.3	7.8	-6.21	+2.25 to +4.00

**Segment Locations are:**

8X34 5 In/2 Dn      10X35 5 In/2 Dn      12X35 5 In/1 Dn      14X35 5 In/1 Up

### 68mm Executive De-Centered Bifocal

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
68mm	2.25	2.16	1.277	8.6	11.0	-6.00	-7.00 to -4.25
68mm	4.25	3.70	2.198	10.9	9.6	-6.00	-4.00 to -2.25
68mm	6.25	5.95	3.580	10.8	6.7	-6.00	-2.00 to +2.00

**Segment Location:** 3 In/5 Dn

### 68mm Executive Trifocal

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
68mm	4.25	3.71	2.200	11.4	12.0	-6.00	-4.00 to -2.25
68mm	6.25	5.96	3.590	11.9	8.0	-6.00	-2.00 to +2.00

**Segment Location:** 0 In/0 Dn (on Center)

### 75mm Freedom<sup>ID</sup> Progressive

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
75mm	3.25	3.15	1.870	9.0	12.0	-6.10	-5.00 to -2.25
75mm	5.25	5.19	3.110	7.4	7.6	-6.10	-2.00 to +1.00
75mm	6.25	6.52	3.940	9.4	7.6	-6.10	+1.25 to +2.00
75mm	7.25	7.35	4.470	10.8	7.4	-6.10	+2.25 to +5.00

**Segment Location:** 2.5 In/4 Dn

# X-Cel Optical 2014 Lens Technical Data

## Plastic CR-39 Clear Lenses

### 75mm Aspire™ Aspheric SFSV for Plus RX Un-Coated

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
75mm	4.50	4.54	2.708	5.7	7.0	-4.21	+0.00 to +2.00
75mm	5.50	5.54	3.324	7.0	7.0	-4.21	+2.25 to +3.25
75mm	6.50	6.46	3.902	8.4	7.0	-4.21	+3.50 to +4.25
75mm	7.50	7.49	4.563	9.7	7.0	-4.21	+4.50 to +5.25
75mm	8.50	8.62	5.312	11.5	7.0	-4.21	+5.50 to +6.25
75mm	9.75	9.74	6.083	12.8	7.0	-4.21	+6.50 to +7.50

### 68mm SFSV Lenticular Un-Coated 40mm Bowl

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
68mm	12.00	12.34	8.026	13.3	8.4	-2.21	+7.00 to +9.50
68mm	14.00	14.19	9.601	14.2	8.4	-2.21	+9.75 to +12.00
68mm	16.00	15.63	11.000	16.6	8.4	-0.62	+12.25 to +14.00
68mm	18.00	17.32	12.954	17.0	8.4	-0.62	+14.25 to +16.50
68mm	19.00	18.60	14.822	17.8	8.4	-0.62	+16.75 to +19.00

### 68mm Round 24 Lenticular Un-Coated 40mm Bowl

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
68mm	12.00	12.31	8.002	15.0	8.5	-2.25	+7.00 to +9.50
68mm	14.00	13.96	9.393	15.4	8.5	-2.25	+9.75 to +11.75
68mm	16.00	16.16	11.569	18.1	8.5	-0.50	+12.00 to +15.00

**Segment Location:** 68mm RD-24: 2.0 Dn

# X-Cel Optical 2014 Lens Technical Data

## Plastic CR-39 Clear Lenses

Center / Edge Thickness For Thick Lens Options:  
Applies to all available styles

### 71mm Plano Back Option

		C.T.	E.T.	Back Curve
71mm	Plano Base	15.6	15.6	Plano Back
71mm	2.25 Base	18.3	15.6	Plano Back
71mm	4.25 Base	17.4	12.2	Plano Back
71mm	6.25 Base	15.5	7.7	Plano Back
71mm	8.25 Base	18.5	7.7	Plano Back
71mm	10.25 Base	22.0	7.7	Plano Back
71mm	12.25 Base	26.1	7.7	Plano Back
71mm	14.25 Base	20.0	12.2	Plano Back

### 71mm Thick Option

		C.T.	E.T.	Back Curve
71mm	4.25 Base	13.1	15.6	-6.21
71mm	6.25 Base	12.2	12.2	-6.21
71mm	8.25 Base	15.2	12.2	-6.21
71mm	10.25 Base	18.7	12.2	-6.21
71mm	12.25 Base	23.1	12.2	-6.21
71mm	14.25 Base	23.4	12.2	-6.21

### 71mm Thick With Plano Back Option

		C.T.	E.T.	Back Curve
71mm	4.25 Base	20.8	15.6	Plano Back
71mm	6.25 Base	20.0	12.2	Plano Back
71mm	8.25 Base	23.0	12.2	Plano Back
71mm	10.25 Base	26.5	12.2	Plano Back
71mm	12.25 Base	30.6	12.2	Plano Back
71mm	14.25 Base	30.9	12.2	Plano Back

### 71mm Extra Thick Option

		C.T.	E.T.	Back Curve
71mm	6.25 Base	15.6	15.6	-6.21
71mm	8.25 Base	18.7	15.6	-6.21
71mm	10.25 Base	22.2	15.6	-6.21
71mm	12.25 Base	26.5	15.6	-6.21

### 71mm Extra Thick W/Plano Back Option

		C.T.	E.T.	Back Curve
71mm	6.25 Base	23.4	15.6	Plano Back
71mm	8.25 Base	26.4	15.6	Plano Back
71mm	10.25 Base	29.9	15.6	Plano Back

### 75mm Plano Back Option

		C.T.	E.T.	Back Curve
75mm	0.50 Base	17.2	16.7	Plano Back
75mm	2.25 Base	19.7	16.7	Plano Back
75mm	4.25 Base	18.1	12.2	Plano Back
75mm	6.25 Base	16.5	7.8	Plano Back
75mm	8.25 Base	19.9	7.8	Plano Back

### 75mm Thick Option

		C.T.	E.T.	Back Curve
75mm	4.25 Base	13.8	16.7	-6.21
75mm	6.25 Base	12.2	12.2	-6.21
75mm	8.25 Base	15.7	12.2	-6.21

### 75mm Thick With Plano Back Option

		C.T.	E.T.	Back Curve
75mm	4.25 Base	22.5	16.7	Plano Back
75mm	6.25 Base	20.9	12.2	Plano Back
75mm	8.25 Base	24.3	12.2	Plano Back

### 75mm Extra Thick Option

		C.T.	E.T.	Back Curve
75mm	6.25 Base	16.7	16.7	-6.21
75mm	8.25 Base	20.2	16.7	-6.21

### 75mm Extra Thick W/Plano Back Option

		C.T.	E.T.	Back Curve
75mm	6.25 Base	25.4	16.7	Plano Back
75mm	8.25 Base	28.8	16.7	Plano Back

### 81mm Thick Option

		C.T.	E.T.	Back Curve
81mm	6.25 Base	12.1	12.1	-6.21
81mm	8.25 Base	16.3	12.1	-6.21