**Port 041 – U2 Wadsworth**

This beamline is SRC owned.  
Current as of June 2012

**Beamline**  
U2 Wadsworth Normal Incidence Monochromator  
608-877-2044

**Manager**  
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**Technical**

<table>
<thead>
<tr>
<th><strong>Energy Range</strong></th>
<th>7.8 – 40 eV</th>
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<tr>
<td><strong>Flux</strong></td>
<td>See graph above for slits = 0.100 mm (solid lines). Scales linearly with exit slit</td>
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| **Bandpass**     | LEG: $\Delta \lambda$ (Å) $\approx$ 3 * slit(mm)  
For slits > 0.050 mm  
MEG: $\Delta \lambda$ (Å) $\approx$ 1.5 * slit(mm)  
HEG: $\Delta \lambda$ (Å) $\approx$ 1 * slit(mm) |
|------------------|-------------|
| **Focused Spot Position** | Spot position is 787.4 mm (31 inches) from exit valve flange and 1330.3 mm (52 3/8 inches) above the floor. Beam slopes up 1°.  
Spot size (horizontal x vertical) is 0.5 mm x 0.5 times exit slit |

| **Exit Beam Divergence** | Horizontal (Full) is 12.8 mrad @ 10 eV; 11.6 mrad @20 eV; 11.06 mrad @ 30 eV  
Vertical (Full) is 7.7 mrad @ 10 eV; 5.5 mrad @ 20 eV; 4.6 mrad @ 30 eV |
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<tr>
<td><strong>Automation</strong></td>
<td>SRC control and data acquisition program.</td>
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<tr>
<td><strong>Computer Interface</strong></td>
<td>RS 232 port slave mode.</td>
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<td><strong>Special Feature(s)</strong></td>
<td>U2 permanent magnet undulator source.</td>
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