<table>
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<tr>
<th>Multi Lines</th>
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<tbody>
<tr>
<td></td>
<td>DE-R 198</td>
<td>31 Lines (Square)</td>
<td>450 nm</td>
<td>a: 72.8, b: 51.5, c: 1.7, d: 51.5</td>
<td>α: 40.0°, β: 28.9°, γ: 0.96°, δ: 28.9°</td>
<td>425-490 nm</td>
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<td>DE-R 213</td>
<td>11 Lines (Square)</td>
<td>635 nm</td>
<td>a: 76.7, b: 54.4, c: 5.4, d: 54.4</td>
<td>α: 42.0°, β: 30.4°, γ: 3.0°, δ: 30.4°</td>
<td>530-670 nm</td>
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<td>DE-R 233</td>
<td>7 Lines (Square)</td>
<td>635 nm</td>
<td>a: 54.0, b: 38.2, c: 6.4, d: 38.2</td>
<td>α: 30.2°, β: 21.6°, γ: 3.6°, δ: 21.6°</td>
<td>530-670 nm</td>
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<td>DE-R 250</td>
<td>5 Lines (Rectangular)</td>
<td>660 nm</td>
<td>a: 55.0, b: 10.9, c: 2.7, d: 53.9</td>
<td>α: 30.8°, β: 6.2°, γ: 1.6°, δ: 30.2°</td>
<td>590-670 nm</td>
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<td>DE-R 251</td>
<td>7 Lines (Rectangular)</td>
<td>650 nm</td>
<td>a: 15.5, b: 9.0, c: 1.5, d: 12.6</td>
<td>α: 8.9°, β: 5.2°, γ: 0.8°, δ: 7.2°</td>
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<td>DE-R 252</td>
<td>5 Lines (Rectangular)</td>
<td>635 nm</td>
<td>a: 42.7, b: 30.2, c: 7.5, d: 30.2</td>
<td>α: 24.1°, β: 17.2°, γ: 4.3°, δ: 17.2°</td>
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<td>DE-R 253</td>
<td>11 Lines (Square)</td>
<td>635 nm</td>
<td>a: 76.4, b: 54.0, c: 5.4, d: 54.0</td>
<td>α: 41.8°, β: 30.2°, γ: 3.0°, δ: 30.2°</td>
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<td>DE-R 254</td>
<td>25 Lines (Square)</td>
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<td>a: 68.4, b: 48.3, c: 2.0, d: 48.3</td>
<td>α: 37.7°, β: 27.2°, γ: 1.1°, δ: 27.2°</td>
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<td>DE-R 255</td>
<td>65 Lines (Square)</td>
<td>660 nm</td>
<td>a: 45.6, b: 32.2, c: 0.5, d: 32.2</td>
<td>α: 25.7°, β: 18.3°, γ: 0.3°, δ: 18.3°</td>
<td>530-670 nm</td>
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<td>DE-R 284</td>
<td>41 Lines (Rectangular)</td>
<td>660 nm</td>
<td>a: 133.4, b: 104.0, c: 2.6, d: 78.0</td>
<td>α: 67.4°, β: 54.9°, γ: 1.4°, δ: 42.6°</td>
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<td>DE-R 348</td>
<td>10 Lines (Rectangular)</td>
<td>650 nm</td>
<td>a: 125.5, b: 90.0, c: 10.0, d: 87.5</td>
<td>α: 64.2°, β: 48.5°, γ: 5.4°, δ: 47.3°</td>
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<td>DE-R 350</td>
<td>15 Lines (Rectangular)</td>
<td>520 nm</td>
<td>a: 65.5, b: 42.1, c: 3.0, d: 50.2</td>
<td>α: 36.3°, β: 23.8°, γ: 1.7°, δ: 28.2°</td>
<td>480-550 nm</td>
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<td>DE-R 381</td>
<td>11 Lines (Rectangular)</td>
<td>850 nm</td>
<td>a: 155.6, b: 41.5, c: 4.15, d: 150</td>
<td>α: 75.8°, β: 23.5°, γ: 2.3°, δ: 74.0°</td>
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<td>DE-R 386</td>
<td>3 Lines (Rectangular)</td>
<td>520 nm</td>
<td>a: 50.7, b: 8.0, c: 4.0, d: 50.0</td>
<td>α: 28.4°, β: 4.6°, γ: 2.3°, δ: 28.1°</td>
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<td>DE-R 387</td>
<td>5 Lines (Rectangular)</td>
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<td>a: 50.7, b: 8.0, c: 2.0, d: 50.0</td>
<td>α: 28.4°, β: 1.1°, γ: 3.1°, δ: 28.1°</td>
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<td>DE-R 391</td>
<td>81 Lines (Rectangular)</td>
<td>650 nm</td>
<td>a: 156.0, b: 128.8, c: 1.6, d: 93.6</td>
<td>α: 75.9°, β: 63.9°, γ: 0.8°, δ: 50.2°</td>
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<td>DE-R 392</td>
<td>3 Lines (Rectangular)</td>
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<td>a: 54.7, b: 10.8, c: 5.4, d: 53.6</td>
<td>α: 30.6°, β: 6.2°, γ: 3.1°, δ: 30.0°</td>
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<td>Dot Matrix</td>
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<td>Pattern Size @ 100 mm Distance, Values: mm</td>
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<td>a</td>
<td>b</td>
<td>c</td>
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<td>DE-R 206</td>
<td>17 x 17 Dots</td>
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<td>38.0 26.6 1.7 26.6</td>
<td>21.5° 15.2° 0.9° 15.2°</td>
<td>590-730 nm</td>
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<tr>
<td>DE-R 223</td>
<td>2 x 2 + 1 Dots</td>
<td>635 nm</td>
<td>28.3 19.9 19.9 19.9</td>
<td>16.1° 11.4° 11.4° 11.4°</td>
<td>635 &amp; 405 nm</td>
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<td>DE-R 231</td>
<td>101 x 101 Dots</td>
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<td>DE-R 241</td>
<td>21 x 21 Dots</td>
<td>635 nm</td>
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<td>590-730 nm</td>
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<td>DE-R 242</td>
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<td>12.4 8.8 0.6 8.8</td>
<td>7.1° 5.0° 0.3° 5.0°</td>
<td>590-730 nm</td>
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<td>DE-R 243</td>
<td>17 x 17 Dots</td>
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<td>12.4 8.8 0.5 8.8</td>
<td>7.1° 5.0° 0.3° 5.0°</td>
<td>590-730 nm</td>
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<td>DE-R 244</td>
<td>13 x 13 Dots</td>
<td>635 nm</td>
<td>7.4 5.3 0.4 5.3</td>
<td>4.3° 3.0° 0.3° 3.0°</td>
<td>590-670 nm</td>
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<tr>
<td>DE-R 257</td>
<td>51 x 51 Dots</td>
<td>660 nm*</td>
<td>56.9 40.3 0.8 40.3</td>
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<tr>
<td>DE-R 258</td>
<td>11 x 11 Dots</td>
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<td>71.2 50.3 5.0 50.3</td>
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<td>590-690 nm</td>
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<td>DE-R 339</td>
<td>6 x 6 Dots</td>
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<td>16.6 11.7 2.3 11.7</td>
<td>9.5° 6.7° 1.3° 6.7°</td>
<td>590-690 nm</td>
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<td>DE-R 351</td>
<td>10 x 10 Dots</td>
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<td>DE-R 352</td>
<td>4 x 6 Dots</td>
<td>532 nm</td>
<td>26.6 13.7 4.6 22.8</td>
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<td>500-580 nm</td>
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<td>DE-R 353</td>
<td>5 x 5 Dots</td>
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<td>1.1 0.75 0.19 0.75</td>
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<td>DE-R 388</td>
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<td>46.8 33.1 0.66 33.1</td>
<td>26.4° 18.8° 0.38° 18.8°</td>
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<td>DE-R 389</td>
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<td>520 nm*</td>
<td>46.8 33.1 1.66 33.1</td>
<td>26.4° 18.8° 0.95° 18.8°</td>
<td>480-600 nm</td>
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<td>DE-R 199</td>
<td>QC-Line-45@450</td>
<td>450 nm</td>
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<td>45°</td>
<td>440-480 nm</td>
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<td>DE-R 263</td>
<td>1:5 Dot Line</td>
<td>635 nm</td>
<td>10.5</td>
<td>6°</td>
<td>630-780 nm</td>
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<td>DE-R 264</td>
<td>1:9 Dot Line</td>
<td>670 nm</td>
<td>1.6</td>
<td>0.9°</td>
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<td>DE-R 265</td>
<td>1:19 Dot Line</td>
<td>650 nm</td>
<td>24</td>
<td>13.7°</td>
<td>500-540 nm / 630-690 nm</td>
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<td>DE-R 266</td>
<td>QC-Line-5@633</td>
<td>633 nm</td>
<td>8.7</td>
<td>5°</td>
<td>630-690 nm</td>
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<td>DE-R 267</td>
<td>QC-Line-30@532</td>
<td>532 nm</td>
<td>53.8</td>
<td>30.1°</td>
<td>560-570 nm</td>
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<td>DE-R 281</td>
<td>1:11 Dot Line</td>
<td>650 nm</td>
<td>28.9</td>
<td>16.5°</td>
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<td>DE-R 282</td>
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<td>19.1°</td>
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<td>DE-R 286</td>
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<td>DE-R 369</td>
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<td>QC-Line-51@840</td>
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<td>Circles &amp; Dot Circles</td>
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<td>DE-R 219</td>
<td>Solid Line Circle</td>
<td>592 nm</td>
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<td>DE-R 220</td>
<td>1:16 Dot Circle</td>
<td>515 nm</td>
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<td>1:36 Dot Circle</td>
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<td>DE-R 238</td>
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<td>3.4°</td>
<td>520-532 nm</td>
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<td>DE-R 240</td>
<td>1:16 Dot Circle</td>
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<td>Random Dot Patterns</td>
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<td>b</td>
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<td>33000-Dot Pseudo-Random</td>
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<td>101.3</td>
<td>84.8</td>
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<td>33000-Dot Pseudo-Random</td>
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<td>31806-Dot Truely-Random</td>
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<td>29594-Dot Pseudo-Random</td>
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<td>DE-R 384</td>
<td>51978-Dot Truely-Random</td>
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<td>167.4</td>
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<td>101050-Dot Truely-Random</td>
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<td>100.4</td>
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<td>Crosshair</td>
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<td>Pattern Angles (@ Design Wavelength)</td>
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<td>DE-R 197</td>
<td>Cross – 45@450</td>
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<td>45°</td>
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<td>DE-R 205</td>
<td>Cross – 5@650</td>
<td>650 nm</td>
<td>8.7</td>
<td>5°</td>
<td>580-660 nm</td>
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<td>Cross – 25@532</td>
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<td>DE-R 214</td>
<td>Cross – 2@645</td>
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<td>DE-R 218</td>
<td>Cross – 15@640</td>
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<td>500-640 nm</td>
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<td>DE-R 239</td>
<td>Cross – 5@520</td>
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<td>5.0°</td>
<td>488-600 nm</td>
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<tr>
<td>DE-R 245</td>
<td>Cross – 10@633</td>
<td>633 nm</td>
<td>17.5</td>
<td>10.0°</td>
<td>570-690 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 246</td>
<td>Cross with surrounding high contrast area -@633</td>
<td>633 nm</td>
<td>17.5</td>
<td>10.0°</td>
<td>530-670 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 247</td>
<td>Cross – 25@645</td>
<td>645 nm</td>
<td>44.3</td>
<td>25.0°</td>
<td>600-800 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 248</td>
<td>Cross – 37@645</td>
<td>645 nm</td>
<td>66.8</td>
<td>37.0°</td>
<td>630-700 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 249</td>
<td>Cross – 45@633</td>
<td>633 nm</td>
<td>83.0</td>
<td>45.0°</td>
<td>620-700 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 270</td>
<td>Cross – 30@640</td>
<td>640 nm</td>
<td>53.6</td>
<td>30.0°</td>
<td>590-690 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 280</td>
<td>Cross – 60@635</td>
<td>635 nm</td>
<td>115.5</td>
<td>60.0°</td>
<td>580-690 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 289</td>
<td>Cross – 15@520</td>
<td>520 nm</td>
<td>26.4</td>
<td>15.0°</td>
<td>480-550 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 299</td>
<td>Cross – 75@650</td>
<td>650 nm</td>
<td>153.5</td>
<td>75.0°</td>
<td>580-690 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 340</td>
<td>Cross – 60@450</td>
<td>450 nm</td>
<td>116.1</td>
<td>60.3°</td>
<td>420-520 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 342</td>
<td>Cross – 52@515</td>
<td>515 nm</td>
<td>97.6</td>
<td>52.0°</td>
<td>440-540 nm</td>
<td></td>
</tr>
<tr>
<td>DE-R 382</td>
<td>Cross – 30@450</td>
<td>450 nm</td>
<td>53.6</td>
<td>30.0°</td>
<td>440-480 nm</td>
<td></td>
</tr>
<tr>
<td>Viewfinder</td>
<td>DOE Item #</td>
<td>Description</td>
<td>Design Wavelength</td>
<td>Pattern Size @ 100 mm Distance, Values: mm</td>
<td>Pattern Angles (@ Design Wavelength)</td>
<td>Recommended Wavelength Range</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------</td>
<td>-------------------------------</td>
<td>-------------------</td>
<td>---------------------------------------------</td>
<td>--------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td><img src="image1" alt="Viewfinder" /></td>
<td>DE-R 215</td>
<td>Viewfinder</td>
<td>645 nm</td>
<td>Width (=b): 27 mm Height (=c): 17.7 mm Diagonal (=a): 32 mm</td>
<td>Width (=β): 15.5° Height (=γ): 10.1° Diagonal (=α): 18.2°</td>
<td>570-750 nm</td>
</tr>
<tr>
<td><img src="image2" alt="Viewfinder" /></td>
<td>DE-R 234</td>
<td>Viewfinder (Lines Square)</td>
<td>633 nm*</td>
<td>Width (=b): 61 mm Height: 61 mm Diagonal (=a): 86 mm</td>
<td>Width (=β): 34° Height: 34° Diagonal (=α): 47°</td>
<td>590-730 nm</td>
</tr>
<tr>
<td><img src="image3" alt="Viewfinder" /></td>
<td>DE-R 260</td>
<td>Viewfinder (Circle + Cross)</td>
<td>645 nm</td>
<td>Width Cross (=a): 37 mm Circle Ø (=b): 18.3 mm</td>
<td>Width Cross (=α): 21° Circle Ø (=β): 10.5°</td>
<td>570-750 nm</td>
</tr>
<tr>
<td><img src="image4" alt="Viewfinder" /></td>
<td>DE-R 261</td>
<td>Viewfinder (Dot Circle + Cross)</td>
<td>635 nm</td>
<td>Width Cross (=a): 11 mm Circle Ø (=b): 8.8 mm Dot Spacing (=c): 1.1 mm</td>
<td>Width Cross (=α): 6.3° Circle Ø (=β): 5° Angle betw. Dots (=γ): 0.63°</td>
<td>570-750 nm</td>
</tr>
<tr>
<td><img src="image5" alt="Viewfinder" /></td>
<td>DE-R 262</td>
<td>Viewfinder (Dot Square)</td>
<td>532 nm</td>
<td>Width (=b): 12.3 mm Height (=c): 12.3 mm Diagonal (=a): 17.4 mm Dot Spacing: 0.5 mm</td>
<td>Width: 7.0° Height: 7.0° Diagonal: 10.0° Angle betw. Dots: 0.3°</td>
<td>480-670 nm</td>
</tr>
<tr>
<td><img src="image6" alt="Viewfinder" /></td>
<td>DE-R 288</td>
<td>Viewfinder</td>
<td>650 nm</td>
<td>Width: 83.0 mm Height: 53.7 mm Diagonal: 98.9 mm</td>
<td>Width: 43.7° Height: 27.9° Diagonal: 52.6°</td>
<td>590-730 nm</td>
</tr>
<tr>
<td><img src="image7" alt="Viewfinder" /></td>
<td>DE-R 345</td>
<td>Viewfinder (Circle + Cross)</td>
<td>520 nm</td>
<td>Width Cross: 49.9 mm Circle Ø: 24.6 mm</td>
<td>Width Cross: 28.0° Circle Ø: 14.0°</td>
<td>500-540 nm</td>
</tr>
<tr>
<td><img src="image8" alt="Viewfinder" /></td>
<td>DE-R 394</td>
<td>Viewfinder</td>
<td>520 nm</td>
<td>Width: 65.9 mm Height: 65.9 mm Diagonal: 93.2 mm</td>
<td>Width: 36.5° Height: 36.5° Diagonal: 50.0°</td>
<td>500-540 nm</td>
</tr>
<tr>
<td>Special Pattern</td>
<td>DOE Item #</td>
<td>Description</td>
<td>Design Wavelength</td>
<td>Pattern Size @ 100 mm Distance, Values: mm</td>
<td>Pattern Angles (@ Design Wavelength)</td>
<td>Recommended Wavelength Range</td>
</tr>
<tr>
<td>----------------</td>
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<td>---------------------------</td>
<td>-------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td><img src="image" alt="Solid Line Square" /></td>
<td>DE-R 236</td>
<td>Solid Line Square</td>
<td>633* nm</td>
<td>Width: 60.2 mm  Height: 60.2 mm  Diagonal: 85 mm</td>
<td>Width: 33.5°  Height: 33.5°  Diagonal: 46°</td>
<td>530-650 nm</td>
</tr>
<tr>
<td><img src="image" alt="Square Grid 51 x 51 Lines" /></td>
<td>DE-R 256</td>
<td>Square Grid 51 x 51 Lines</td>
<td>660 nm*</td>
<td>Width: 39 mm   Height: 39 mm   Diagonal: 55 mm  Line Spacing: 0.77 mm</td>
<td>Width: 22°   Height: 22°   Diagonal: 31°  Angle betw. Lines: 0.44°</td>
<td>530-660 nm</td>
</tr>
<tr>
<td><img src="image" alt="5 Rings" /></td>
<td>DE-R 259</td>
<td>5 Rings</td>
<td>645 nm</td>
<td>Width: 51 mm   Line Spacing: 5.1 mm</td>
<td>Width: 29°   Lines Spacing: 2.8°</td>
<td>530-700 nm</td>
</tr>
<tr>
<td><img src="image" alt="10 Rings" /></td>
<td>DE-R 269</td>
<td>10 Rings</td>
<td>515 nm</td>
<td>Width: 96.2 mm  Line Spacing: 4.8 mm</td>
<td>Width: 51.4°  Lines Spacing: 2.6°</td>
<td>488-532 nm</td>
</tr>
<tr>
<td><img src="image" alt="Hexagon" /></td>
<td>DE-R 285</td>
<td>Hexagon</td>
<td>780 nm</td>
<td>Width: 13.1 mm</td>
<td>Width: 7.5°</td>
<td>520-800 nm</td>
</tr>
<tr>
<td><img src="image" alt="Square Grid 10×10 Lines" /></td>
<td>DE-R 354</td>
<td>Square Grid 10×10 Lines</td>
<td>658 nm</td>
<td>Width: 72.8 mm  Height: 72.8 mm  Diagonal: 102.9 mm  Line Spacing: 8.1 mm</td>
<td>Width: 40.0°  Height: 40.0°  Diagonal: 51.4°  Angle betw. Lines: 4°</td>
<td>620-680 nm</td>
</tr>
<tr>
<td><img src="image" alt="21×11 Hexagonal Array" /></td>
<td>DE-R 396</td>
<td>21×11 Hexagonal Array</td>
<td>660 nm*</td>
<td>Width: 61.1 mm  Height: 35.3 mm  Diagonal: 70.5 mm  Dot Spacing: 3.5 mm</td>
<td>Width: 34.0°  Height: 20.0°  Diagonal: 38.8°  Angle betw. Lines: 2.0°</td>
<td>600-730 nm</td>
</tr>
<tr>
<td><img src="image" alt="11×10 Hexagonal Array" /></td>
<td>DE-R 397</td>
<td>11×10 Hexagonal Array</td>
<td>660 nm*</td>
<td>Width: 44.4 mm  Height: 46.2 mm  Diagonal: 64.1 mm  Dot Spacing: 5.1 mm</td>
<td>Width: 25.1°  Height: 26.0°  Diagonal: 35.5°  Angle betw. Lines: 2.9°</td>
<td>600-730 nm</td>
</tr>
</tbody>
</table>
| DE-R 399 | 5 Rings | 450 nm | Width: 51 mm  
Line Spacing: 7.3 mm | Width: 40.0°  
Line Spacing: 4.0° | 400-500 nm |