Luminaire Description: Black aluminum housing, specular aluminum reflector, clear plastic lens
Catalog Number: Flashlight D
Lamp: 1 white LED
Mounting: Flashlight
Ballast/Driver: One 18650 battery

Flashlight 1 Claimed 700 lm - Result 166.4 lm

Summary of Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiant Flux</td>
<td>572.0 mW</td>
</tr>
<tr>
<td>Luminous Flux</td>
<td>166.4 Lumens</td>
</tr>
<tr>
<td>CCT</td>
<td>7779 K</td>
</tr>
<tr>
<td>CRI (Ra)</td>
<td>79.0</td>
</tr>
<tr>
<td>Chromaticity (x)</td>
<td>0.2986</td>
</tr>
<tr>
<td>Chromaticity (y)</td>
<td>0.3029</td>
</tr>
<tr>
<td>Chromaticity (u)</td>
<td>0.1978</td>
</tr>
<tr>
<td>Chromaticity (v)</td>
<td>0.3010</td>
</tr>
<tr>
<td>Duv</td>
<td>-0.0030</td>
</tr>
</tbody>
</table>

Test Conditions

| Test Temperature | 24.9 °C |

Testing was performed in a 1-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for this measurement.
Luminaire Description: Black aluminum housing, telescoping lens, clear plastic optic
Catalog Number: Flashlight C
Lamp: 1 white LED
Mounting: Flashlight
Ballast/Driver: One 18650 battery

Flashlight 2 Claimed 1000 lm - Result 281.6 lm

Summary of Results
- Radiant Flux: 1001 mW
- Luminous Flux: 281.6 Lumen
- CCT: 9211 K
- CRI (Ra): 76.6
- Chromaticity (x): 0.2900
- Chromaticity (y): 0.2837
- Chromaticity (u): 0.1891
- Chromaticity (v): 0.2922
- Duv: -0.0084

Test Conditions
- Test Temperature: 24.2 °C

Testing was performed in a 1-meter integrating sphere using the 4π geometry method. Absorption correction was employed for this measurement.
Luminaire Description: Black aluminum housing, telescoping lens, clear plastic optic
Catalog Number: Flashlight F
Lamp: 1 white LED
Mounting: Flashlight
Ballast/Driver: One 18650 battery

Flashlight 3 Claimed 1200 lm - Result 319.6 lm

Summary of Results
Radiant Flux: 1089 mW
Luminous Flux: 319.6 Lumens

Test Conditions
Test Temperature: 24.3 °C

CCT: 7007 K
CRI (Ra): 71.9
Chromaticity (x): 0.3071
Chromaticity (y): 0.3119
Chromaticity (u): 0.2005
Chromaticity (v): 0.3054
DuV: -0.0033

Testing was performed in a 1-meter integrating sphere using the 4π geometry method. Absorption correction was employed for this measurement.
Luminaire Description: Black aluminum housing, telescoping lens, clear plastic optic
Catalog Number: Flashlight G
Lamp: 1 white LED
Mounting: Flashlight
Ballast/Driver: One 18650 battery

Flashlight 4 claimed 1000 lm - Result 331.3 lm

![Flashlight Image]

Summary of Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiant Flux</td>
<td>1200 mW</td>
</tr>
<tr>
<td>Luminous Flux</td>
<td>331.3 Lumens</td>
</tr>
<tr>
<td>CCT:</td>
<td>10784 K</td>
</tr>
<tr>
<td>CRI (Ra):</td>
<td>78.4</td>
</tr>
<tr>
<td>Chromaticity (x):</td>
<td>0.2820</td>
</tr>
<tr>
<td>Chromaticity (y):</td>
<td>0.2741</td>
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<tr>
<td>Chromaticity (u):</td>
<td>0.1971</td>
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<tr>
<td>Chromaticity (v):</td>
<td>0.2873</td>
</tr>
<tr>
<td>Duv:</td>
<td>-0.0087</td>
</tr>
</tbody>
</table>

Test Conditions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Temperature</td>
<td>24.3 °C</td>
</tr>
</tbody>
</table>

Testing was performed in a 1-meter integrating sphere using the 4π geometry method. Absorption correction was employed for this measurement.
Luminaire Description: Black aluminum housing, telescoping lens, clear plastic optic
Catalog Number: Flashlight E
Lamp: 1 white LED
Mounting: Flashlight
Ballast/Driver: One 18650 battery

Flashlight 5 claimed 900 lm - Result 412.3 lm

Summary of Results
Radiant Flux: 1447 mW
Luminous Flux: 412.3 Lumens
CCT: 8273 K
CRI (Ra): 72.8
Chromaticity (x): 0.2964
Chromaticity (y): 0.2914
Chromaticity (u): 0.2008
Chromaticity (v): 0.2961
Duv: -0.0083

Test Conditions
Test Temperature: 25.0 °C

Testing was performed in a 1-meter integrating sphere using the 4π geometry method. Absorption correction was employed for this measurement.