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| **Section** | **Details** |

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| **Product Type** | **Homogenizer** | |
| **Light source information** | Type of light source  (VCSEL/EEL/PCSEL) |  |
| Divergence Angle  (Full Width at 1/e^2 Maximum Intensity) | Min： |
| Typical： |
| Max： |
| Radiation Characteristics1  (Please provide detailed specifications) | See example in appendix |
| Optical aperture |  |
| Number of emitters |  |
| Emitter arrangements  (Please provide pattern, pitch, and coordinates) |  |
| Wavelength |  |
| **Metalens mechanical dimensions** | Size of active area  (Standard size 2.5mm x 2.5mm) |  |
| Size of metalens  (Standard size 2.8mm x 2.8mm) |  |
| **Performance specifications** | Efficiency |  |
| Output divergence angle, H x V  (Angle at 1/e^2 Maximum Intensity) |  |
| Expected intensity distribution curve |  |
| Output field of illumination (FoI) size @ test distance |  |
| Uniformity2  (Standard deviation, Peak to valley (PV)) | See appendix for equation |
| Number of samples used for uniformity calculation H x V (Default value is 700 x 700) |  |
| **Assembly Requirements**  **(if any)** | Assembly requirement  (Lens only / Assemble with light source) |  |
| CAD or dimension requirements of pre-determined lens holder or lens assembly |  |
| Preferred alignment method  (Active alignment or tight fit alignment) |  |
| Alignment error in XY axis |  |
| Alignment error in Z axis |  |
| Rotation error around Z-axis |  |
| **Others** | Fill in any other requirements here |  |

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| **Appendix** | |
| 1. Radiation Characteristics Example | 图片包含 图标  描述已自动生成 |
| 2. Uniformity calculation | Standard deviation: PV value: |