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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: $\sqrt{\frac{\sum\_{i=1}^{n}\left(x\_{i}-\overbar{x}\right)^{2}}{n × \overbar{x}^{2}}}$ PV value: $\frac{I\_{max}-I\_{min}}{I\_{max}}$ |