

## 3.1 Lighthead Optical Performance

**Important:** Values are typical for the small pattern size at highest intensity setting (unless otherwise noted) at 100 cm (39-3/8") from the lighthead. Definitions and measurements are in accordance with IEC 60601-2-41.

**Table 3-1. HarmonyAIR Surgical Lighting System M5 and HarmonyAIR Surgical Lighting System M7 Lighthead Optical Performance**

Feature	HarmonyAIR Surgical Lighting System M5	HarmonyAIR Surgical Lighting System M7
Maximum Central Illuminance	160,000 Lux	160,000 Lux
Peak Total Irradiance	<500 W/m <sup>2</sup>	<540 W/m <sup>2</sup>
Pattern Size Range	18 – 28 cm (7- 11")	22 – 30 cm (8-1/2 - 12")
D50 Diameter	63% of small beam pattern (see Pattern Size Range)	50% of small beam pattern (see Pattern Size Range)
Depth of Illumination (to 20%)	100 cm (39")	91 cm (36")
Depth of Illumination (to 60%)	52 cm (20")	46 cm (18")
Color Temperature (CCT)	4,400K ±300K	4,400K ±300K
General Color Rendering Index (CRI)	Up to 96	Up to 96
Deep Saturated Red Color Rendering Index (R9)	Up to 98	Up to 98
Shadow Control		
<b>Single Mask</b>	54%	66%
<b>Double Mask</b>	46%	46%
<b>Cavity</b>	100%	100%
<b>Single Mask w/ Cavity</b>	54%	63%
<b>Double Mask w/ Cavity</b>	46%	45%
LED Life	60,000 hours for LEDs	30,000 hours for LEDs