

# Draft Launch Recommendations options for Table 68-3 rev 0.4

task 2 and task 4  
Launch Study

## Option 1: Launch section of Table 68–3—10GBASE-LRM transmit characteristics

	<b>Fibre type</b>	<b>OFL bandwidth</b>	<b>Primary Launch TP2 encircled flux test criteria</b>	<b>Alternative Launch TP2 encircled flux test criteria</b>
1	OM1	500/500	< 30 % in 6 µm radius > 86 % in 23 µm radius note 1	> 30 % in 5 µm radius > 80 % in 10 µm radius note 3
2	OM2	400/400 500/500	< 30 % in 6 µm radius > 86 % in 18 µm radius note 2	> 30 % in 5 µm radius > 80 % in 10 µm radius note 3
3	OM3	1500/500	> 30 % in 5 µm radius > 80 % in 10 µm radius note 3	< 30 % in 6 µm radius > 86 % in 18 µm radius note 2

note 1: For example, 20 µm offset single-mode fiber offset-launch mode-conditioning patch cord, as defined in 38.11.4 and 59.9.5

note 2: For example, 13 µm offset single-mode fiber offset-launch mode-conditioning patch cord, as defined in 38.11.4 and 59.9.5. While this patchcord could also satisfy the OM1 primary launch encircled flux definition for the transmit side, the receive side implementation would introduce excess modal loss due to the 62.5µm to 50µm core mismatch.

note 3: For example, single-mode centre launch

## Option 2: Launch section of Table 68–3—10GBASE-LRM transmit characteristics

	<b>Fibre type</b>	<b>OFL bandwidth</b>	<b>Primary Launch TP2 encircled flux test criteria</b>
1	OM1	500/500	< 30 % in 6 µm radius > 86 % in 23 µm radius note 1
2	OM2	400/400 500/500	< 30 % in 6 µm radius > 86 % in 18 µm radius note 2
3	OM3	1500/500	> 30 % in 5 µm radius > 80 % in 10 µm radius note 3

note 1: For example, 20 µm offset single-mode fiber offset-launch mode-conditioning patch cord, as defined in 38.11.4 and 59.9.5

note 2: For example, 13 µm offset single-mode fiber offset-launch mode-conditioning patch cord, as defined in 38.11.4 and 59.9.5. While this patchcord could also satisfy the OM1 primary launch encircled flux definition for the transmit side, the receive side implementation would introduce excess modal loss due to the 62.5µm to 50µm core mismatch.

note 3: For example, single-mode centre launch

### Option 3: Launch section of Table 68–3—10GBASE-LRM transmit characteristics

	<b>Fibre type</b>	<b>OFL bandwidth</b>	<b>'Universal launch' TP2 encircled flux test criteria</b>
1	OM1	500/500	< 30 % in 6 µm radius > 86 % in 18 µm radius note 1
2	OM2	400/400 500/500	< 30 % in 6 µm radius > 86 % in 18 µm radius note 1
3	OM3	1500/500	< 30 % in 6 µm radius > 86 % in 18 µm radius note 1

note 1: For example, Vortex launch