

# CP2220 User Guide Light Hazard Addendum

This document is an addendum to the CP2220 User Guide (P/N: 020-100420-XX).

## Light intensity hazard distance

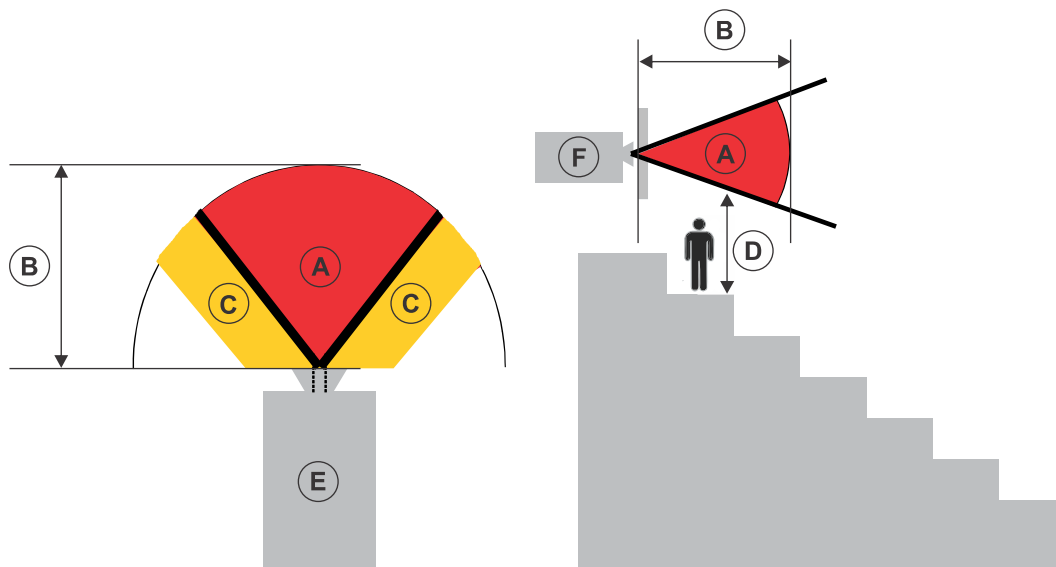
This projector has been classified as Risk Group 3 as per the IEC 62471-5:2015 standard due to possible hazardous optical and thermal radiation being emitted.



**Warning!** If not avoided, the following could result in serious injury.

- PERMANENT/TEMPORARY BLINDNESS HAZARD! No direct exposure to the beam must be permitted. Risk Group 3 according to IEC 62471-5:2015.
- PERMANENT/TEMPORARY BLINDNESS HAZARD! Operators must control access to the beam within the hazard distance or install the product at the height that prevents exposure of spectators' eyes within the hazard distance. The hazard zone must be no lower than 2.5 meters (US installations) or 2.0 meters (global installations) above any surface upon which any persons are permitted to stand and the horizontal clearance to the hazard zone must be a minimum 1.0 meters.
- EXTREME BRIGHTNESS! Do not place reflective objects in the product light path.

The following show the zones for ocular and skin hazard distances.



- A—Hazard zone. The region of space where the projection light from the projector is above emission limits for Risk Group 2. The light intensity may cause eye damage after a momentary

or brief exposure (before a person can avert his or her eyes away from the light source). The light may cause skin burns to occur.

- B—Hazard distance. Operators must control access to the beam within the hazard distance or install the product preventing potential exposure of the spectators' eyes from being in the hazard distance.
- C—No access zone. Horizontal clearance of the no access zone must be a minimum of 1.0 meters.
- D—Vertical distance to hazard zone. The hazard zone must be no lower than 2.5 meters (US installations) or 2.0 meters (global installations) above any surface upon which any persons are permitted to stand.

If the vertical distance to hazard zone requirement (Zone D) is satisfied, the horizontal clearance distance (Zone C) is not needed.

- E—Represents the top view of the projector.
- F—Represents the side view of the projector.

The following gives the hazard distance for Christie projector lenses.

**CP2220 lenses**

Projection lens	Part number
<b>High brightness lenses</b>	
1.25-1.45:1	108-274101-XX
1.45-1.8:1	108-275101-XX
1.8-2.4:1	108-276101-XX
2.20-3.0:1	108-277101-XX
3.0-4.3:1	108-278101-XX
4.3-6.0:1	108-279101-XX
5.5-8.5:1	108-280101-XX
1.45-2.05:1	108-335102-XX
1.6-2.4:1	108-336103-XX
1.8-3.0:1	108-337104-XX
2.15-3.6:1	108-338105-XX
1.25-1.83:1	108-342100-XX
<b>High contrast lenses</b>	
1.25-1.83:1	108-400105-XX
1.45-2.05:1	108-401106-XX
1.6-2.4:1	108-402107-XX
1.8-3.0:1	108-403108-XX
2.15-3.6:1	108-404109-XX
1.8-2.4:1	38-809052-XX

Projection lens	Part number
2.2-3.0:1	38-809053-XX
1.45-1.8:1	38-809061-XX
1.25-1.45:1	38-809079-XX

CP2220/CP4220 Hazard Distance

