

**Statement Of Performance Of
Clear EN54-23 VAD Optics
Following Material Change
From Calibre 303EP To Lux2180T**

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1. INTRODUCTION

This document certifies that the performance of Polymer Optics EN54 Part 23 Visual Alarm Device optics moulded with Lux2180T resin has been found to be within measurement accuracy identical those moulded in Calibre 303EP resin.

2. MEASUREMENTS

The back-to-back measurements of optics moulded in Lux2180T and Calibre 303EP were made using a Viso Systems LabSpion goniophotometer system. This was done for both wall mounted and ceiling mounted optics at the measurement points defined by BS EN54 Part 23 Table A.2.

The light source used for the tests was a white 12V Cree XHP35.2 Hi-Density LED part number XHP35B-00-0000-0D0BD40DV. The measured colour temperature was 6033K and the measured CRI was 73.3.

The results from the measurements made using the goniophotometer were used to calculate the minimum effective lumens needed to achieve a given coverage volume for the standard mounting height as defined in BS EN54 Part 23 Section 4.3.1.

3. PERFORMANCE STATEMENT

Within the measurement accuracy of the equipment used above, for coverage volumes ranging from 5m to 10m for short range optics and 8m to 15m for long range optics there was no performance difference between optics moulded in Calibre 303EP and Lux2180T.

Signed


Andrew Dennington
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