M-135: PRODUCT PERFORMANCE REQUIREMENTS 7.7.1: Lighting (Internal & External)



	PERFORMANCE REQUIREMENTS
Description	Lighting for internal and external use, comprising lighting with IP20 (internal) and IP44 (external and bathroom) options, from a surface mounted fitting.
Risk-rating	Moderate risk/moderate complexity.
Performance Requirements	In addition to demonstrating compliance with the Building Regulations (1992) Kāinga Ora also requires that:
	 Shall comply with all legislative and standards-based requirements, as well as those set by the relevant local authority. Lighting for internal and external use, comprising lighting with IP20 (internal) and IP44 (external and bathroom) options, from a surface mounted fitting. Be Class II (as defined by AS/NZS 60598.1 or IEC 60598-1). Have AS/NZS or IEC Certification. Be rated at 35,000 hours 'luminaire lifespan'. Have 2700k colour temperature. Have uniform light distribution. Have CRI of >85. Have luminaire efficiency greater than 90lm/W. Have luminaire lumen output between 1100-2500 lumens. Lamps shall be provided in both BC and ES configurations 12. LED, be tested to TM21 and LM79.

LEGISLATIVE REQUIREMENTS

The following clauses from Schedule 1 of the *Building Regulations* (1992) apply:

- B2.3.1 (c)
- F2.3.1, F2.3.3 (b)
- H1.3.5
- G9

ADDITIONAL REQUIREMENTS

Warranty	Provide an average expected life-span for the product. This should be based on the products typical use under normal conditions.
Homestar®	Kāinga Ora – Homes and Communities' properties are designed to meet
Requirements	the requirements needed to achieve a 6-Homestar [®] .
	This component falls within EHC-6 Lighting. Requirements include:
	All lights are LED.
	 Lighting Power Density of installed fixed interior lighting is no

more that 5W/m².

- 6-Homestar[®] requires a minimum efficacy of 40lm/W for outdoor lighting however the specific performance requirements above require luminaire efficacy to be greater than 90 lm/W.
- All fixed external lights have motion sensors with daylight cut off, integrated photovoltaric cells or a Lighting Power Density of no more than 1.5W/m².

Released under the Official Information Act