

<b>6</b>	<b>IEQ</b>	<b>6.6 LIGHTING QUALITY</b>
		<b>IEQ 17 INTERIOR LIGHTING IN AREAS NOT NORMALLY OCCUPIED</b>
	<b>EXCLUSIONS</b>	None.
	<b>OBJECTIVE</b>	Ensure the adequacy of artificial lighting provisions in common areas and service areas such as plant rooms.
	<b>CREDITS ATTAINABLE</b>	1
	<b>PREREQUISITES</b>	Compliance with the Building Regulations for those common areas covered by regulations, e.g. Building (Planning) Regulation (B(P)R) 40 in respect of lighting of staircases.
	<b>CREDIT REQUIREMENT</b>	1 credit where the prescribed lighting performance in each type of common or service space in respect of light output and lighting quality is achieved.
	<b>ASSESSMENT</b>	<p>The Assessment focus is on lighting for safety, security and work activities required for operation and maintenance. The design criteria is at the discretion of the Client but shall embrace both 'quantity' and 'quality' of the lighting system performance including: maintained horizontal, and where appropriate vertical, illuminance, illuminance variation, limiting glare index, colour rendering, and modulation of light output appropriate to the type and use of the premises/indoor spaces. The criteria adopted shall be based on authoritative guidance, such as that provided in CIE [1,2], CIBSE [3] and/or IESNA [4] publications, or equivalent.</p> <p>The Client shall submit a report prepared by a suitably qualified person detailing the 'as installed' lighting systems or, for spaces yet to be fitted-out, the technical details of the proposed lighting systems for each type of common or service space within the development. The report shall detail the design criteria and the results of measurements or other means demonstrating compliance.</p> <p>Compliance with the assessment criteria shall be demonstrated either by measurements using a standardised measurement protocol appropriate to the parameter being assessed, and/or by modelling (calculation), providing the calculation method or software used is based on a standardised method, and uses data/assumptions appropriate to the circumstances. Notwithstanding, demonstration of compliance with a) requires that the maintained illuminance take into account the influence on light output appropriate to the circumstances, such as the recommendations given by CIE [5].</p>
	<b>BACKGROUND</b>	<p>Energy efficiency aspects of electric lighting are dealt with in the assessment of energy use. This section deals with the lighting quality and maintenance aspects of lighting systems provided in both common areas and service areas of a building.</p> <p>Reference should be made to Section IEQ 16 for further information on measurements and modelling on interior lighting systems.</p>

- 1 Commission Internationale de l'Eclairage (CIE). Lighting of Indoor Work Places. CIE Standard S 008/E.
- 2 Commission Internationale de l'Eclairage (CIE). Discomfort Glare in Interior Lighting. CIE 117-1995.
- 3 The Chartered Institution of Building Services Engineers. Code for interior lighting. London. CIBSE.
- 4 Illuminating Engineering Society of North America. Lighting Handbook, Reference & Applications. New York.
- 5 Commission Internationale de l'Eclairage (CIE). Maintenance of indoor electric lighting systems. CIE Technical Report - Publication No. 97. Vienna.

**Q25. IEQ 16&17, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected and what is the percentage of compliance of the sampling points in order to achieve the credit?**

The sampling point should represent each type of premises with a typical lighting layout. To achieve the credit, 100% compliance of all the representative sampling points is required.

7 8

(Released on 29 November 2019)

**Q26. IEQ 16&17, For BEAM Plus New Buildings Version 1.1 and 1.2, should decorative lighting be assessed?**

**Q27. IEQ 18, 19, 20 & 21, For BEAM Plus New Buildings Version 1.1 and 1.2, what is the definition of “suitably qualified person” (SQP)?**

**Q28. IEQ 18, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q29. IEQ 19, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q30. IEQ 19, For BEAM Plus New Buildings Version 1.1 and 1.2, in normal credit, is impact noise isolation (IIC) between floors required for Office, Hotel and Residential premises?**

**Q31. IEQ 20, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q32. IEQ 21, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q33. IEQ 22, For BEAM Plus New Buildings Version 1.1, please elaborate on the requirement of enhanced provisions under this credit.**

**Q34. Under BEAM Plus NB IEQ 23, how many times can the same amenity type be counted within the same development?**

**Q35. IEQ 23, For BEAM Plus New Buildings Version 1.1 and 1.2, is there a list of amenity features which comply with the requirements of IEQ 23?**

## Management

**Q1. MAN 1, For BEAM Plus Existing Buildings Version 2.0 Comprehensive Scheme & MAN 2, For BEAM Plus Existing Buildings Version 2.0 Selective Scheme, please elaborate on the documentations required to fulfill the internal audit criteria under this credit.**

**Q2. MAN 3, For BEAM Plus Existing Buildings Version 2.0 Comprehensive Scheme & MAN 4, For BEAM Plus Existing Buildings Version 2.0 Selective Scheme, what is the definition of BEAM Professional with EB credential.**

**Q3. MAN 9b, For BEAM Plus Existing Buildings Version 2.0 Comprehensive Scheme & MAN 11b, For BEAM Plus Existing Buildings Version 2.0 Selective Scheme, regarding bulk purchase of the management company:**

**Q26. IEQ 16&17, For BEAM Plus New Buildings Version 1.1 and 1.2, should decorative lighting be assessed?**

No. Decorative lighting as defined under Schedule 2 of Buildings Energy Efficiency Ordinance (BEEO) should be excluded from the assessment of IEQ 16 & 17. However, the Applicant should provide clear delineation such as layout drawings and lighting fitting schedule highlighting the portion where decorative lightings are installed in the development.

(Released on 29 November 2019)

**Q27. IEQ 18, 19, 20 & 21, For BEAM Plus New Buildings Version 1.1 and 1.2, what is the definition of “suitably qualified person” (SQP)?**

**Q28. IEQ 18, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q29. IEQ 19, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q30. IEQ 19, For BEAM Plus New Buildings Version 1.1 and 1.2, in normal credit, is impact noise isolation (IIC) between floors required for Office, Hotel and Residential premises?**

**Q31. IEQ 20, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q32. IEQ 21, For BEAM Plus New Buildings Version 1.1 and 1.2, how should the representative sampling points be selected?**

**Q33. IEQ 22, For BEAM Plus New Buildings Version 1.1, please elaborate on the requirement of enhanced provisions under this credit.**

**Q34. Under BEAM Plus NB IEQ 23, how many times can the same amenity type be counted within the same development?**

**Q35. IEQ 23, For BEAM Plus New Buildings Version 1.1 and 1.2, is there a list of amenity features which comply with the requirements of IEQ 23?**

## Management

**Q1. MAN 1, For BEAM Plus Existing Buildings Version 2.0 Comprehensive Scheme & MAN 2, For BEAM Plus Existing Buildings Version 2.0 Selective Scheme, please elaborate on the documentations required to fulfill the internal audit criteria under this credit.**

**Q2. MAN 3, For BEAM Plus Existing Buildings Version 2.0 Comprehensive Scheme & MAN 4, For BEAM Plus Existing Buildings Version 2.0 Selective Scheme, what is the definition of BEAM Professional with EB credential.**

**Q3. MAN 9b, For BEAM Plus Existing Buildings Version 2.0 Comprehensive Scheme & MAN 11b, For BEAM Plus Existing Buildings Version 2.0 Selective Scheme, regarding bulk purchase of the management company:**