

Signify Classified - Internal

Hue Connect Gradient			
Specification item	Value	Unit	Condition
The Hue Connect Gradient is intended to be used for color tunable luminaires. In combination with the a 24V DC power supply and defined L1.5 LED kit, color consistency can between luminaires or light points within a luminaire can be guaranteed.			
<i>Description</i>			
Logistical data			
Model	9290029816		
Electrical input data			
Input power	72W		
Current of single channel	3A	Ampere	
Electrical output data			
Voltage	67W	Watt	
Standby power	24V	Volt	+/-1V
	<120mW	Watt	
Wireless specifications			
Wireless RF mode frequency band	2400–2483.5 MHz	MHz	
Wireless communications protocol	IEEE 802.15.4	ZigBee protocol	
	Bluetooth LE	Bluetooth LE protocol	
	Zigbee 11 – 26		
Operating channel	Bluetooth 0-39	channels	
Output power (Typical)	11	dBm	Measured at antenna feedpoint
Receiver Sensitivity (Typical)	-102	dBm	conducted
TRP	6	dBm	
LED board requirements			
Hue White Color Ambience	Unified Gamut		covered by L1.5 specifications
	Tunable white CCT range: 2000-6500K		
Hue White Ambiance	Tunable white CCT range: 2200-6500K		
Hue White	2700K / 3000K / 4000K		
Operational temperatures and humidity			
Ambient temperature	-20 - 50°C	Celcius	
Tcase-max	85°C	Celcius	
Lifetime			
lifetime	25,000 hrs		Tamb<50°C
Compliances and approvals			
FCC	FCC Labelling Requirements When integrating HUE Connect into a product it must be ensured that the FCC labelling requirements are met. This includes a clearly visible label on the outside of the finished product specifying the FCC identifier (FCC ID:2AGBW9290029816X). This exterior label can use wording such as “Contains Transmitter Module FCC ID: 2AGBW9290029816X” although any similar wording that expresses the same meaning may be used. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The advance interface module complies with FCC radiation exposure limits set forth for an uncontrolled environment. The module and associated antenna must be installed to provide a separation distance of at least 1.5cm from all persons and must not transmit simultaneously with any other antenna or transmitter. FCC Approvals FCC statement: This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.		

	FCC notice: This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna - Increase the separation between the device and receiver - Connect the device into an outlet on a circuit different from that to which the receiver is connected - Consult the dealer or an experienced radio/television technician for help . Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IC	IC (ISED Canada) Approvals This device complies with ISED Canadalicense-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Under ISED Canadaregulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication This module complies with ISED Canada RF radiation exposure limits set forth for general population. To maintain compliance, this module must not be co-located or operating in conjunction with any other antenna or transmitter. This transmitter module is authorized only for use in device where the antenna may be installed such that 1.5cm may be maintained between the antenna and users. Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi) and required impedance for each. Class B Notice for Canada This Class B digital apparatus complies with Canadian CAN ICES-003(B)/NMB-003(B) The labelling requirements for ISED Canadaare similar to those of the FCC. Again a clearly visibly label must be placed on the outside of the finished product stating something like “Contains Transmitter Module, IC: 20812-29816X”, although any similar wording that expresses the same meaning may be used.
	Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes: (1) l’appareil ne doit pas produire de brouillage, et (2)l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement. En vertu de la réglementation d’Industrie Canada, cet émetteur radio risquera uniquement à l’aide d’une antenne de type et de gain maximum (ou moins) pour l’émetteur a approuvé par Industrie Canada. Pour réduire les interférences radio potentielles à d’autres utilisateurs, le type d’antenne et son gain doivent être choisies que la puissance isotrope rayonnée équivalente (p.i.r.e.) n’est pas plus que celle autorisée pour une communication réussie Ce module émetteur est autorisé uniquement pour une utilisation dans un dispositif où l'antenne peut être installée de telle sorte qu'une distance de 1.5cm peut être maintenue entre l'antenne et les utilisateurs. Ce module est conforme à la FCC et Industrie Canada RF limites d’exposition aux rayonnements définies pour l’ensemble de la population. Pour maintenir la conformité, ce module ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou émetteur À la suite de l’avis ci-dessus, le fabricant doit fournir une liste de tous les

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	Les exigences d'étiquetage pour Industrie Canada sont semblables à celles de la FCC. Encore une fois un clairement visiblement étiquette doit être placée à l'extérieur du produit fini indiquant quelque chose comme "Module émetteur de Contains, IC: 20812-29816X", bien que tout même libellé qui exprime que le même sens peuvent être utilisé. Cet appareil numérique de la classe B est conforme à la norme CAN ICES-003(B)/NMB-003(B) du Canada
CE	European Certification (ETSI) The module have been certified to the following standards: • Radio: EN 300 328 • EMC: EN 301 489-1, EN 301 489-17 • EMF: EN 62479 • Safety: EN 61347-1, EN 61347-2-11 If the module is incorporated into an OEM product, the OEM product manufacturer must ensure compliance of the final product to the European Harmonized EMC, and low voltage/safety standards

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Wireless RF mode frequency band:		2400–2483.5 MHz
Wireless communication protocol:	ZigBee Light Link protocol IEEE 802.15.4	
Operating channel	channels 11 – 26	

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