

# BrightSites

by  Signify

## BrightSites C7003 luminaire with Gbit technology

Time to unlock the wireless connectivity potential of the lighting grid

### Benefits:

- The wireless backhaul you need for fixed wireless access, 4G/5G densification, cameras and IoT broadband application
- Avoids trenching and permits for high-capacity connectivity
- Self-optimizing, mesh network for high availability
- Good application coverage thanks to wide range of optics and tunable flux



BrightSites C7003 luminaire with Gbit technology

BrightSites C7003 luminaire with Gbit technology is a new point to multipoint 60GHz product that turns lighting grids into high-bandwidth communication infrastructures. It offers the advantages of a high-quality lighting system and mmWave spectrum - multi-gigabit capacity, immunity to interference and massive amounts of available spectrum. All in an easy-to-deploy solution for scalable, stress-free coverage extension and multi-path reliability across neighborhoods and business parks.

### Lighting Specifications

Lumen output	4000lm – 12000lm
Color temperature	2200K, 2700K, 3000K or 4000K
Optics	Street Medium (MDM) Wide (MDW) Asymmetrical (MDA) Symmetric (MDS) Road Symmetric (DSW) Distribution Wet Road (DK)
CRI	>80 (3000K), >70 (2200, 2700, 3000 and 4000K)

### RF Specifications

Topologies	PtP, PtMP, Mesh
Sectors	4x90° sector for 360° coverage Horizontal scanning: 90° Vertical scanning: 12°
Frequency & Duplexing	57-66 GHz, TDD/TDMA
Channels & Width	4x non-overlapping channels, 2,160 MHz wide, Any sector any of 4 channels, for optimal RF performance.
Network Synchronization	Onboard
Radio OTA Rate	Up to 3,800 Mbps per sector
Aggregate Throughput	Up to 3,800 Mbps per sector Up to 15 Gbps per node

### Electrical Specifications

Input voltage	220-240V AC, 50-60 Hz
Power consumption	Lighting: 28W to 104W RF: 45W(max) no PoE Out, 80W(max) with 35W PoE Out
Protection class	Isolation: Class I Surge protection: 10kV
Dimming	Yes, via Interact City

### Other Specifications

Operating Temperature	-40° to +30°C
Weight	18kg
Dimension (diameter x height)	See next page
Material	Housing: PE; rotational moulded Front glass: Tempered flat glass
Impact Rating	IK08
Ingress Protection	IP66, rated for wet locations
Mounting Types	Suspended/single wire ø6-9 mm; top mounted ø60 mm

## RF Specifications

Maximum Range	1,000ft / 300m
Interface	1x M-12 1GbE with PoE Out (35W)
Ethernet Features	IEEE 802.1d transparent bridging Provider bridge - VLAN & VLAN stacking

## Other Specifications

PoE Out	M-12 socket for PoE Out up to 35W (IEEE 802.3bt)
Security	AES 128-bits OTA, GUI over HTTPS, CLI over SSH.
Management & Provisioning	In-band, Out-of-band management, Web GUI (one-pane configuration of local and remote units) & Embedded CLI, NETCONF

## Drawings

**Cph LED/City gen2 BRS562/762**  
Side entry  $\phi 60\text{mm}$

