

PHILIPS

Fortimo

LED

HBMt Siteco



Datasheet

Application

- High bay
- Flood and Area lighting
- Urban street lighting
- Tunnel

Key features and benefits

- LED "lamp" – high lumen output from a small area
- Luminaire design is based on traditional reflector optics
- Reduced time to market and simplified supply chain
- Patented module surge protection
- Philips system warranty
- Interchangeability of light engines from different manufacturers

November 2017

Ordering data

Commercial product name	EOC	12NC	Box quantity
Fortimo LED HBMT 6000/840 44W Gen4	8718696 780848 00	9290 016 16206	10

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
HBMT Siteco	490	500	700	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	85	85	85	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

*** Maximum value for safe operation, do not operate above this value

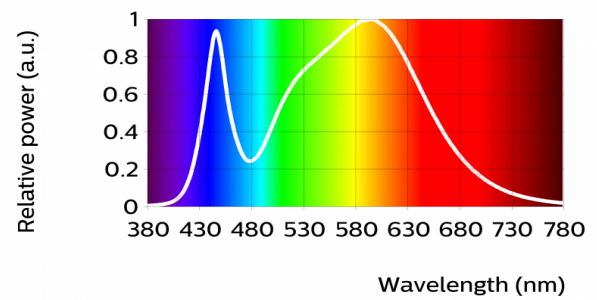
Optical characteristics - table per color (CCT)

Fortimo LED HBMt 6000/840 44W Gen4

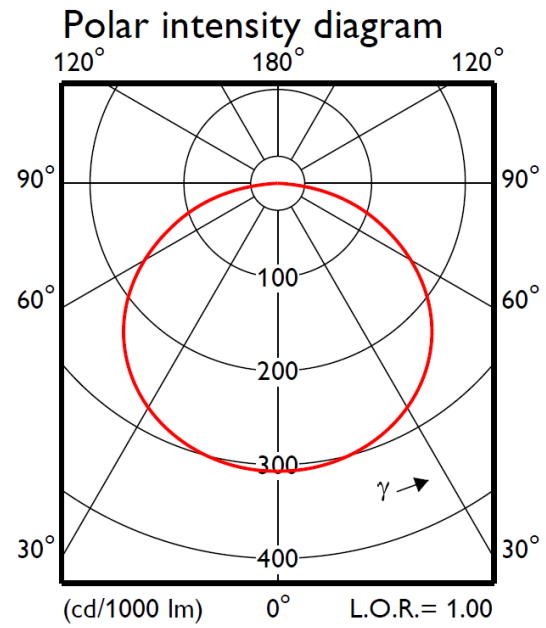
Parameter	Min	Typ	Max	Unit
Luminous flux	5400	6000	6600	lm
Module efficacy	119	136	153	lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.380)		-
Color consistency			5	SDCM
CRI	80			
Radiation angle		120		deg
Photobiological safety			RG2	
Ethr			1489	lux

Instant full light

Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



Beam shape



Electrical characteristics

Fortimo LED HBMT 6000/840 44W Gen4

Parameter	Min	Typ	Max	Unit
Forward voltage	85.5	90.0	94.5	V
Power consumption	41.9	44.6	46.3	W

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

Lifetime

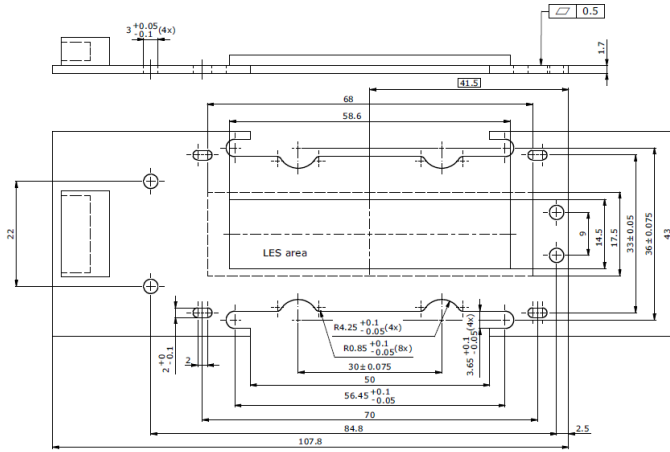
Parameter	Value	Unit
C10 at Tc life	50000	hours

L70B50 >50000 h

Mechanical characteristics

Fortimo LED HBMt 6000/840 44W Gen4

Parameter	Min	Typ	Max	Unit
Length	107.7	107.8	107.9	mm
Width	42.9	43	43.1	mm
Height PCB	1.6	1.7	1.8	mm



Absolute ratings

Parameter	Min	Typ	Max	Unit
Current through the LED module (I-max)			700	mA
Case temperature (Tc-max)			85	°C
Power at rated Vf-max and I-max			66.1	W
ESD (direct contact)			8	kV
ESD (air)			15	kV
Ambient temperature	-40			°C

Surge protection up to 6kV in combination with Philips Xitanium drivers

Application information

Certificates and Standards

CE
ENEC

Environmental

RoHS/REACH

Application

IP rating	No IP-rating
Overheating protection	No protection
Luminaire class	Class I and Class II IEC systems
Luminaire class ANSI	Class 2, UL systems
Dimming	Yes

Switching cycles in accordance to EU 1194/2012: >15000



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