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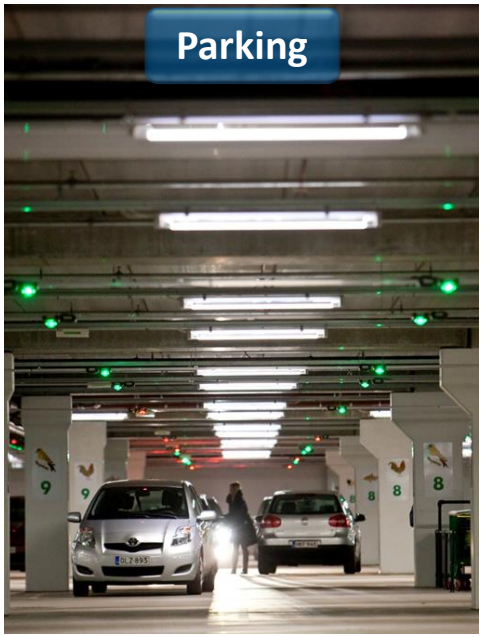
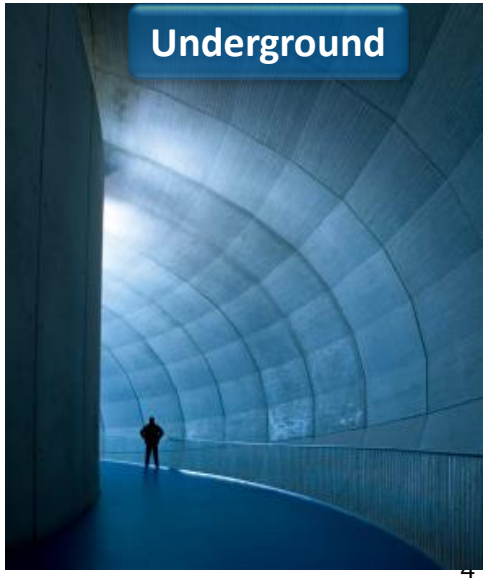
sense and simplicity

GreenPerform Waterproof
WT160C/ 161C

Professional Lighting Solution
2013 Feb

Target application





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GreenPerform Waterproof *WT160C/ 161C*

New generation LED Waterproof with leading effacacy

>50% energy saving

Product feature :

- Up to **95lm/W** system efficacy, save over 50% energy by replacing T8 waterproof luminaires
- Extrusion body with **UV resistant** PC material fit tough environment application
- **50000hr** lifetime & **IP65** & **IK08** protection ensure ultimate reliability and endurance
- Comfortable light with high color uniformity **SDCM<3.5**, CRI>**80**
- Compact design & **IP68** waterproof quick connector ease the installation

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Product family

WT160C
Standalone

Sys Lumen	4800/ 3800/ 1900lm/1000lm
Watt	55/ 40/ 20/ 12W
Color	4000K/ 6500K
CRI	>80
Length	1500/ 1200/ 600mm
Optical	Diffused
Installation	Surface/ Wall
Accessory	Mounting bracket IP68 connector
Volt	220-240V/50-60Hz

WT161C
Trunkable

Sys Lumen	4800/ 3800/ 1900lm/1000lm
Watt	55/ 40/ 20/ 12W
Color	4000K/ 6500K
CRI	>80
Length	1500/ 1200/ 600mm
Optical	Diffused
Installation	Surface/ Wall
Accessory	Mounting bracket IP68 connector Connect cable
Volt	220-240V/50-60Hz

Product details

WT160C
Standalone

Input

End

Connector

WT161C
Trunkable

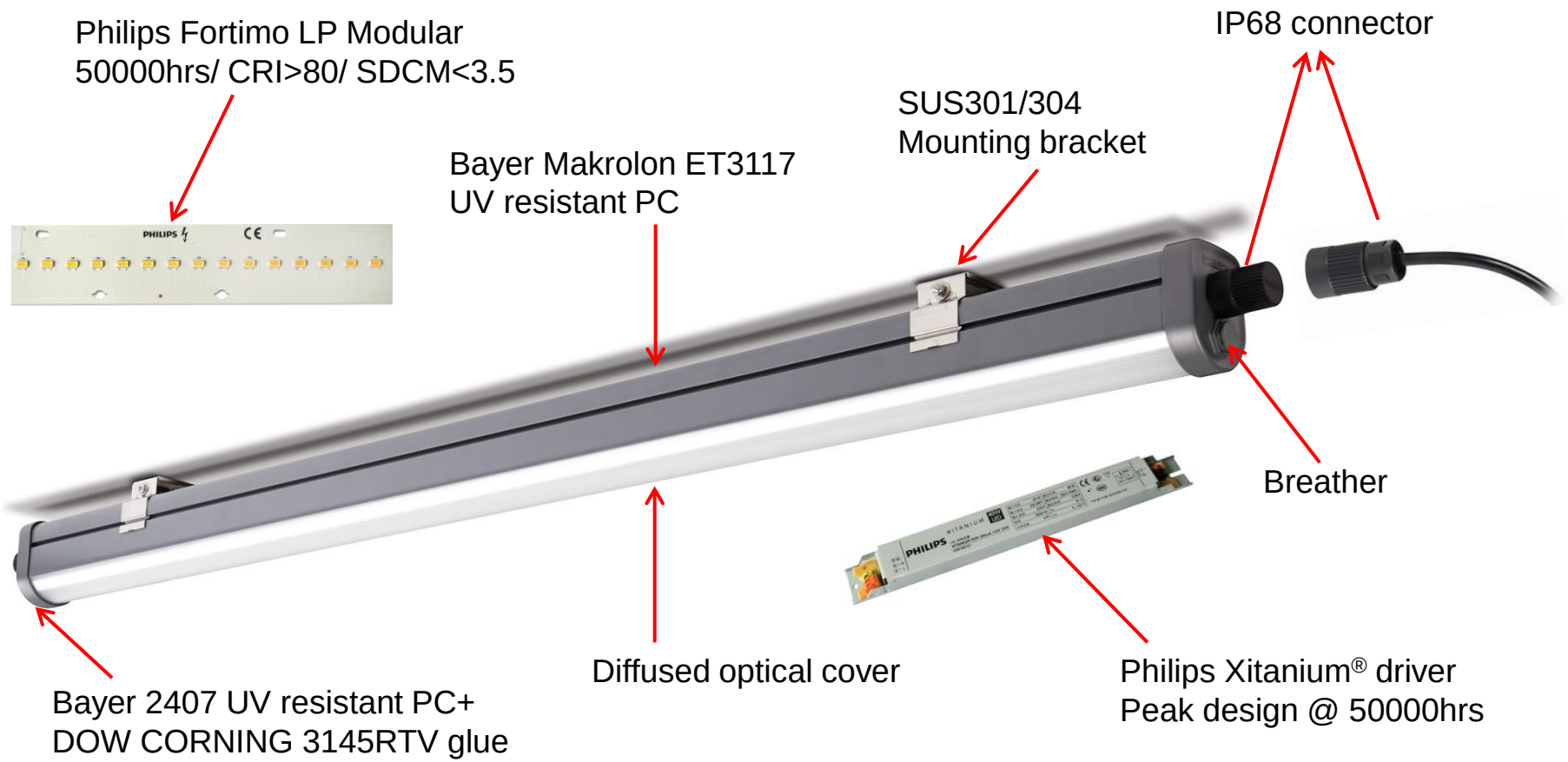
Input

Output

Connecting cable

Connection

Product details



GreenPerform Waterproof is built with high reliability components designed for extreme long life and extreme tough environment.

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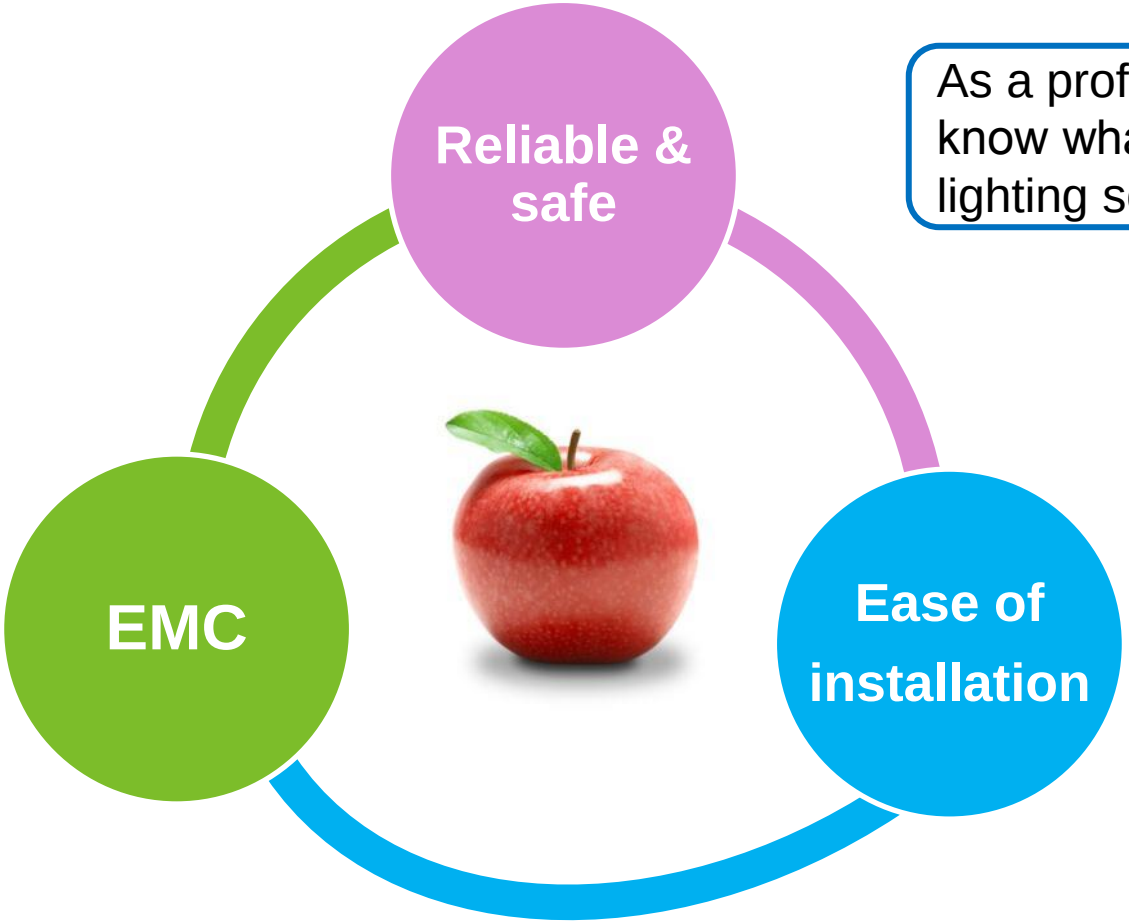
What makes GP Waterproof outstanding

A breakthrough LED luminaire——something you have to know



As a professional solution expert, we know what's the better & advanced lighting solutions

Reliable & Safe

- **Conv lumi adopts two injection parts design**
- **Sealing is achieved by sealing rubber & fixing brackets**
- **Leaking risk is high after frequent maintain and inproper installation**

- **WT160 adopts one extrusion PC housing design, with much lower leaking risks**
- **Seal for life, no leaking risk caused by maintain**
- **Bayer UV resistant PC material improves the reliability in extreme tough environment**

PHILIPS EMC

✗ Most LED tube cannot meet EMC requirement in waterproof closed luminaires

✓ Philips GP LED Waterproof in compliance with IEC standard, fully meet EMC requirement

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Report No:S2011071504

Test Report

Fail

Sample Name: TCW097

Model/Type: TCW097 1x18W I
TCW097 2x36W I
TCW097 2xTL-D36W I BK
TCW097 1xTL-D18W I BK
TCW097 2xTL-D18W IC
TCW097 2xTL-D36W IC

Test Name: EMC test

Customer: Philips Lighting Luminaires (Shanghai) Co., Ltd. RDC

Philips Lighting Luminaires(Shanghai) Co.,Ltd. Laboratory
Address: No.2688, Huyi Rd, Jiading District, Shanghai, PRC
Tel: 021-59102862 Fax: 021-59101344

IEC IECEE CB SCHEME | Ref. Certif. No. SG-LE-00520

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE)METHODE OC

CB TEST CERTIFICATE
CERTIFICAT D'ESSAI OC

Pass

Product: Fixed general purpose luminaires
Greenperform Waterproof

Name and address of the applicant: Philips (China) Investment Co., Ltd
1602-1605, 218 Tian Mu Xi Road
200070 Shanghai, PEOPLE'S REPUBLIC OF CHINA

Name and address of the manufacturer: Philips (China) Investment Co., Ltd, 1602-1605, 218 Tian Mu Xi Ro, 200070 Shanghai, PEOPLE'S REPUBLIC OF CHINA

Name and address of the factory: Philips Luminaires(Chengdu) CO.,LTD., Unit 5, Street 58 Tian Qin, Hi-tech/west(zone, 611731 Chengdu, Sichuan Province, PEOPLE'S REPUBLIC OF CHINA

Ratings and principal characteristics: Rated voltage: 220-240V~; Rated frequency: 50/60Hz; Rated power: WT160C/LED10/L60; WT161C/LED10/L60:12W/1x22x0.6W; WT160C/LED20/L60; WT161C/LED20/L60:20W/1x44x0.6W; WT160C/LED20/L120; WT161C/LED20/L120:20W/2x22x0.6W; WT160C/LED40/L120; WT161C/LED40/L120:40W/2x44x0.6W; WT160C/LED50/L150; WT161C/LED50/L150:55W/5x22x0.6W. Max.24 pcs interconnected for WT161C/LED10/L60; WT161C/LED20/L60;WT161C/LED20/L120;WT161C/LED40/L120; Max.12 pcs interconnected for WT161C/LED50/L150. Protection Class: I; Degree of protection: IP65

Trade mark (if any): Philips

Model/type Ref.: WT160C/LED10/L60; WT160C/LED20/L60; WT160C/LED20/L120; WT160C/LED40/L120; WT160C/LED50/L150; WT161C/LED10/L60; WT161C/LED20/L60; WT161C/LED20/L120; WT161C/LED40/L120; WT161C/LED50/L150.

Additional information (if necessary): IEC 62493:2009

A sample of the product was tested and found to be in conformity with: IEC 60598-1:2008; IEC 60598-2-1/A1:1987; IEC 62471:2006

as shown in the Test Report Ref. No.: TÜV SÜD PSB Pte Ltd

which forms part of this certificate: 083-1206629-000

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

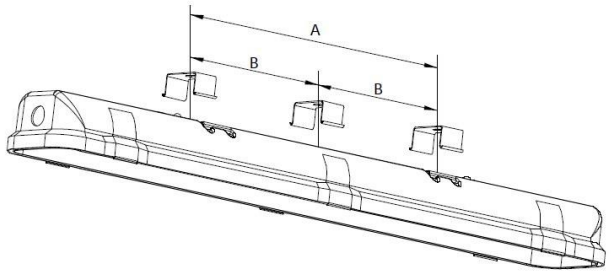
Date: 2013-01-08
CBS 13 01 74448 006

(Bingwen Zhang)

TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221

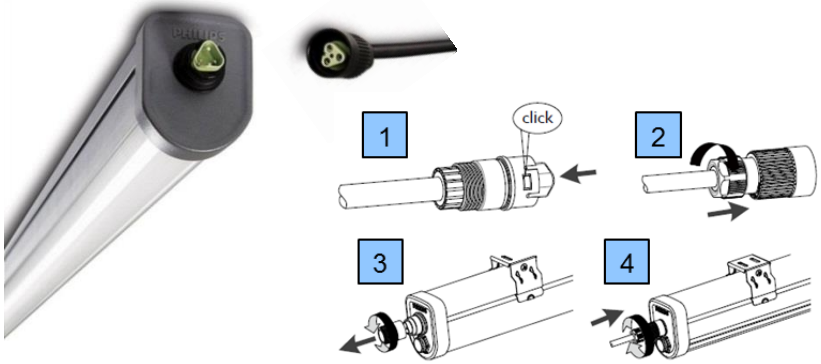
PSB Singapore

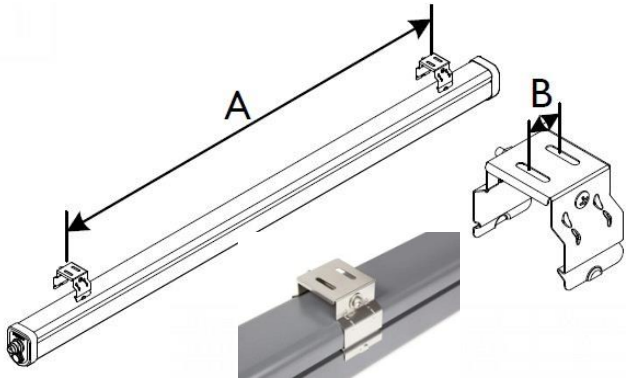
Ease of installation



✗ LED tube installation is very complicated, rewiring is always needed

✗ Conv luminaire mounting position is fixed in the housing, flexibility of installation is low

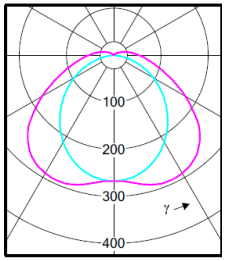




✓ Philips GP LED waterproof can be easily connected by a simple IP68 connector

✓ Philips GP LED Waterproof can choose any position in the housing for installation

PHILIPS Product specs

	WT160C/ WT161C				
Product type	Standalone/ Trunkable				
Lumen output	4800lm	3800lm	1900lm	1900lm	1000lm
Watt	55W	40W	20W	20W	12W
Length	5ft	4ft		2ft	
Weight	1.7kg	1.3kg		0.7kg	
Efficacy	**95lm/W**				
CCT	6500K / 4000K				
CRI	**>80**				
SDCM	**<3.5 SDCM**				
Photometrics					
LED	**Philips Fortimo LP LED**				
Driver	**Philips Xitanium® Driver**				
Material	Housing：**Bayer ET3117** PC				
	End cap：**Bayer 2407** PC				
	Sealing glue：**DOW CORNING 3145RTV**				
	Mounting bracket：**SUS301/304**stainless steel				
	Conection：**IP68**connector				
Protection	**IP65/ IK08**				
Class	Class I				
Life	**50000 hours**				
Voltage	220-240V、50/60 Hz				
Approbation	CCC/ CB/ EMC				

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Description

WT160C LED50 / NW L1500
1 2 3 4

1 Product type

160: standalone

161: trunkable

2 System output/ wattage

LED50: 4800lm/ 55W
LED40: 3800lm/ 40W
LED20: 1900lm/ 20W
LED10: 1000lm/ 12W

3 Color

NW: 4000K
CW: 6500K

4 length

L1500: 5ft
L1200: 4ft
L600: 2ft

Ordering information

Standalone	12NC	Lumen	CCT	Length	Watt
WT160C LED50 CW L1500	911401513511	4800lm	6500K	5ft	55W
WT160C LED50 NW L1500	911401513411	4800lm	4000K	5ft	55W
WT160C LED40 CW L1200	911401513111	3800lm	6500K	4ft	40W
WT160C LED40 NW L1200	911401513011	3800lm	4000K	4ft	40W
WT160C LED20 CW L1200	911401512811	1900lm	6500K	4ft	40W
WT160C LED20 NW L1200	911401512611	1900lm	4000K	4ft	40W
WT160C LED20 CW L600	911401512311	1900lm	6500K	2ft	20W
WT160C LED20 NW L600	911401512211	1900lm	4000K	2ft	20W
WT160C LED10 CW L600	911401511911	1000lm	6500K	2ft	12W
WT160C LED10 NW L600	911401511811	1000lm	4000K	2ft	12W
Trunkable	**12NC**	**Lumen**	**CCT**	**Length**	**Watt**
WT161C LED50 CW L1500	911401513711	4800lm	6500K	5ft	55W
WT161C LED50 NW L1500	911401513611	4800lm	4000K	5ft	55W
WT161C LED40 CW L1200	911401513311	3800lm	6500K	4ft	40W
WT161C LED40 NW L1200	911401513211	3800lm	4000K	4ft	40W
WT161C LED20 CW L1200	911401512911	1900lm	6500K	4ft	40W
WT161C LED20 NW L1200	911401512711	1900lm	4000K	4ft	40W
WT161C LED20 CW L600	911401512511	1900lm	6500K	2ft	20W
WT161C LED20 NW L600	911401512411	1900lm	4000K	2ft	20W
WT161C LED10 CW L600	911401512111	1000lm	6500K	2ft	12W
WT161C LED10 NW L600	911401512011	1000lm	4000K	2ft	12W
Accessory	**12NC**	**说明**			
WT161Z TB	911401527511	Connecting cable			