



Ref. Certif. No.

DE 2-036863

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

CB TEST CERTIFICATE

Product

Solar LED Light

Name and address of the applicant

BLUE CARBON TECHNOLOGY INC.
NO. C1, TECHNOLOGY INNOVATION CENTER
HIGH-TECH ZONE, 276800 RIZHAO, SHANDONG PROVINCE, P.R. China

Name and address of the manufacturer

BLUE CARBON TECHNOLOGY INC.
NO. C1, TECHNOLOGY INNOVATION CENTER
HIGH-TECH ZONE, 276800 RIZHAO, SHANDONG PROVINCE, P.R. China

Name and address of the factory

BLUE CARBON TECHNOLOGY INC.
NO. C1, TECHNOLOGY INNOVATION CENTER
HIGH-TECH ZONE, 276800 RIZHAO, SHANDONG PROVINCE, P.R. China

Ratings and principal characteristics

ta:45°C; IP65; Class III;
For other ratings, see test report.

Trademark (if any)

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

BCT-OLL1.0; BCT-OLL1.0W; DM-OLL1.0; DM-OLL1.0W;
BCT-OLA1.0S; BCT-OLA1.0SW; DM-OLA1.0S; DM-OLA1.0SW;
BCT-OLG1.0; BCT-OLG1.0W; BCT-OLG1.0S; BCT-OLG1.0SW;
For other models, refer to page 2 additional information.

Additional information (if necessary may also be reported on page 2)

-see also test report ref. no. CN228DMZ 001.

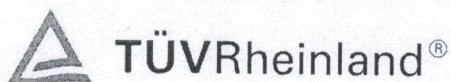
A sample of the product was tested and found to be in conformity with

IEC 60598-2-3:2002+A1
IEC 60598-1:2020

As shown in the Test Report Ref. No. which forms part of this Certificate

CN228DMZ 001

This CB Test Certificate is issued by the National Certification Body

TÜV Rheinland LGA Products GmbH
Tillystr. 2, 90431 Nürnberg, Germany
Phone + 49 221 806-1371
Fax + 49 221 806-3935
Mail: cert-validity@de.tuv.com
Web : www.tuv.com

Date: 2022-10-21

Signature:

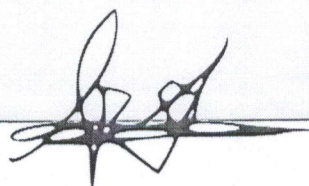
Dipl.-Ing. Univ. S. O. Steinke

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DM-OLG1.0S
DM-OLG1.0SW
BCT-OLP1.0
BCT-OLP1.0W
DM-OLP1.0
DM-OLP1.0W
BCT-OLF1.0
BCT-OLF1.0R
BCT-OLF1.0W
BCT-OLF2.0
BCT-OLF2.0W
DM-OLF2.0
DM-OLF2.0W
BCT-OLS1.0
BCT-OLS1.0W
BCT-SPC1.0
DM-SPC1.0
BCT-SCL1.0
BCT-SCL1.0W
BCT-OTL1.0BW
BCT-OTL1.0CW
DM-OTL1.0A
DM-OTL1.0B
DM-OTL1.0C
DM-OTL1.0AW
DM-OTL1.0BW
DM-OTL1.0CW
BCT-OPP1.0A
BCT-OPP1.0B
BCT-OPP1.0C
BCT-OPP1.0AW
BCT-OPP1.0BW
BCT-OPP1.0CW
DM-OPP1.0A
DM-OPP1.0B
DM-OPP1.0C
DM-OPP1.0AW
DM-OPP1.0BW

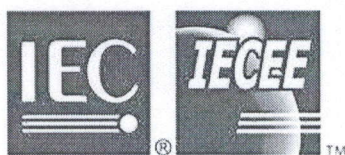
BCT-SCL2.0
BCT-SCL2.0W
BCT-SCL3.0
BCT-SCL3.0W
DM-SCL1.0
DM-SCL1.0W
DM-SCL2.0
DM-SCL2.0W
DM-SCL3.0
DM-SCL3.0W
BCT-OLMJ1.0
BCT-OLJ1.0
BCT-OLMJ1.0W
BCT-OLJ1.0W
DM-OLMJ1.0
DM-OLJ1.0
DM-OLMJ1.0W
DM-OLJ1.0W
BCT-OLC1.0A
DM-OPP1.0CW
BCT-OPPA1.0A
BCT-OPPA1.0B
BCT-OPPA1.0AW
BCT-OPPA1.0BW
DM-OPPA1.0A
DM-OPPA1.0B
DM-OPPA1.0AW
DM-OPPA1.0BW
BCT-OPPT1.0A
BCT-OPPT1.0B
BCT-OPPT1.0AW
BCT-OPPT1.0BW
BCT-OLB1.0A
BCT-OLB1.0B
BCT-OLB1.0C
BCT-OLB1.0AW
BCT-OLB1.0BW
BCT-OLB1.0CW

BCT-OLC1.0B
BCT-OLC1.0C
BCT-OLC1.0AW
BCT-OLC1.0BW
BCT-OLC1.0CW
DM-OLC1.0A
DM-OLC1.0B
DM-OLC1.0C
DM-OLC1.0AW
DM-OLC1.0BW
DM-OLC1.0CW
BCT-OTS1.0
DM-OTS1.0
BCT-OTS1.0W
DM-OTS1.0W
BCT-OTL1.0A
BCT-OTL1.0B
BCT-OTL1.0C
BCT-OTL1.0AW
DM-OLB1.0A
DM-OLB1.0B
DM-OLB1.0C
DM-OLB1.0AW
DM-OLB1.0BW
DM-OLB1.0CW
BCT-OLB2.0A
BCT-OLB2.0B
BCT-OLB2.0C
BCT-OLB2.0AW
BCT-OLB2.0BW
BCT-OLB2.0CW
DM-OLB2.0A
DM-OLB2.0B
DM-OLB2.0C
DM-OLB2.0AW
DM-OLB2.0BW
DM-OLB2.0CW



Date: 2022-10-21

Signature: Dipl.-Ing. Univ. S. O. Steinke



Test Report issued under the responsibility of:



TEST REPORT
IEC 60598-2-3
Luminaires
Part 2: Particular requirements
Section 3: Luminaires for road and street lighting

Report Number..... : CN228DMZ 001

Date of issue : 2022-10-17

Total number of pages..... : 48 pages

Name of Testing Laboratory
preparing the Report : TÜV Rheinland (Shenzhen) Co., Ltd.

Applicant's name..... : BLUE CARBON TECHNOLOGY INC

Address..... : NO. C1, TECHNOLOGY INNOVATION CENTER, HIGH-TECH
ZONE, 276800 RIZHAO, SHANDONG PROVINCE, P.R. China

Test specification:

Standard..... : IEC 60598-2-3:2002/AMD1:2011 used in conjunction with
IEC 60598-1:2020

Test procedure..... : CB Scheme

Non-standard test method : N/A

TRF template used : IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No. : IEC60598_2_3M

Test Report Form(s) Originator.... : Intertek Semko AB

Master TRF : 2021-11-11

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This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description.....:	Solar LED Light	
Trade Mark(s).....:	N/A	
Manufacturer.....:	Same as applicant's name & address	
Model/Type reference	BCT-OLL1.0, BCT-OLL1.0W, DM-OLL1.0, DM-OLL1.0W, BCT-OLA1.0S, BCT-OLA1.0SW, DM-OLA1.0S, DM-OLA1.0SW, BCT-OLG1.0, BCT-OLG1.0W, BCT-OLG1.0S, BCT-OLG1.0SW. See model list on pages 7 to 11 for the other models	
Ratings.....:	Class III, IP65, ta 45°C, details see model list on pages 7 to 11	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> CB Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.	
Testing location/ address	1601-1604, 17-18F, Tower A Building 2, Shenzhen International Innovation Valley, Dashi 1st Road, Xili Street, Xili Community, Shenzhen 518052 Nanshan District, China	
Tested by (name, function, signature)	Young Yang Project Handler	<i>Young Yang</i>
Approved by (name, function, signature)...	Jimmy Hong Reviewer	<i>Jimmy Hong</i>
<input type="checkbox"/> Testing procedure: CTF Stage 1:	N/A	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature)...		
<input type="checkbox"/> Testing procedure: CTF Stage 2:	N/A	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)...		
<input type="checkbox"/> Testing procedure: CTF Stage 3:	N/A	
<input type="checkbox"/> Testing procedure: CTF Stage 4:	N/A	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)...		
Supervised by (name, function, signature):		

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Tests according to IEC 62031:2018.(16 pages)

Attachment 2: Photobiological safety of lamps and lamp systems were according to standard

IEC TR 62778:2014.(3 pages)

Attachment 3: EMF Assessment according to IEC 62493:2015.(3 pages)

Attachment 4: Photo document.(10 pages)

Summary of testing:**Tests performed (name of test and test clause):**

Clause(s)	Test(s)
IEC 60598-2-3:2002+A1:2011 combined with IEC 60598-1: 2020	
3.5 (3.4)	Rubbing test
3.6 (4.12.1)	Screw torque test
3.6 (4.12.5)	Screwed glands test
3.6 (4.13.1)	Impact test
3.6 (4.14.1)	Test for mechanical suspensions
3.13 (9.2)	Tests for ingress of dust, solid objects and moisture
3.13 (9.3)	Humidity test
3.14 (10.2.1)	Insulation resistance test
3.14 (10.2.2)	Electric strength test
3.12 (12.3)	Endurance test
3.12 (12.4)	Thermal test (normal operation)
3.15 (13.2.1)	Ball pressure test
3.15 (13.3.1)	Needle flame test
3.15 (13.3.2)	Glow-wire test
IEC 60598-2-3:2002+A1:2011	
3.6.3.1	Static load test

Full test were performed on model BCT-OLB2.0C, Partial tests were performed on other models.

Only evaluate the product according to Luminaire standard of IEC 60598-2-3:2002, AMD1:2011 used in conjunction with IEC 60598-1:2020, the solar part of product according to IEC 62109-1, IEC 62619:2017, IEC 61730-1, IEC 61730-2 was not considered.

Testing location:

TÜV Rheinland (Shenzhen) Co., Ltd.

1601-1604, 17-18F, Tower A Building 2,
Shenzhen International Innovation Valley,
Dashi 1st Road, Xili Street, Xili Community,
Shenzhen 518052 Nanshan District, China

Summary of compliance with National Differences (List of countries addressed):

N/A