



AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in



TEST REPORT

Test Report No.: ATCC2/2019040602

Issue Date: 13/04/2019

ULR-TC55841920000580F

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Manufacturer's Name and Address: K-ONN INDIA LIMITED LIABILITY PARTNERSHIP
Office No:1001, 10th Floor, CTS No.844, Plot No.14, Remi Commercio Bldg,
Link Road, Behind Yash Raj Studio, Andheri West. Mumbai-400053

Applicant's Name and Address: K-ONN INDIA LIMITED LIABILITY PARTNERSHIP
Office No:1001, 10th Floor, CTS No.844, Plot No.14, Remi Commercio Bldg,
Link Road, Behind Yash Raj Studio, Andheri West. Mumbai-400053

Testing laboratory's Name and address: Amit Test And Calibration Centre (Unit 2)
Kh.no. 45/14,17 & 45/6 & 7 Village Prahaladpur Bangar,
Near Kali Mata Mandir, Delhi-110042

Receipt/Job No.: 2019040602 **Date of receipt:** 06/04/2019

Document No.: 7.8F-01

Party Ref. No.: NIL

Test specification:

As per Standard: LM-79-08/IS 16106

Test Procedure: Compliance Report

Test item Description: K-ONN LED Street Light

Trade Mark/Brand: K-ONN

Model Name/Number and Type: 20W

Ratings: 100-300 VAC, 50 Hz, 20W

SUPPLEMENTARY INFORMATIONS

- | | |
|--|------------|
| a) Reference to sampling procedure, wherever applicable : | N.A. |
| b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and/or photographs, as appropriate to test report, if any [To be attached]. | Page No. 2 |
| c) Deviation from the test methods as prescribed in relevant ISS/ work instructions | NIL |

Balbir
Tested By



[Signature]
Approved By



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Table - List of Attachments

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Possible test case verdicts:

- test case does not apply to the test object..... N/A
- test object does meet the requirement..... P (Pass)
- test object does not meet the requirement..... F (Fail)

Condition of samples..... Working

Testing

Date of receipt of test item..... 06/04/2019

Date(s) of performance of tests..... From 06/04/2019 to 13/04/2019

Laboratory conditions

Ambient Temperature..... 27±2°C

Ambient Humidity..... 50±5% Rh

General remarks:

- 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 testing laboratory.

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Details of Test Equipment Used

Equipment Calibration status:

S. No.	Equipment Detail	Model	Equipment ID	Calibration Status	Valid up to	Calibrated By
1.	C Type Goniophotometer – GO-R5000 with total Spectral Radiant Flux Lamp (86.41V, 7.255A, omni-directional)	D908S	ATCC-179(D)	Valid	18/01/2020	NPL India
2.	Digital Power Meter	PF310	ATCC-179(A)	Valid	01/05/2019	C&I Calibrations Pvt. Ltd.

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Details of Tests Performed and Result

S. No.	Test Parameter	IES No. and Cl. No.
1.	Input RMS AC Voltage	IES LM79-08/Cl. No.: 8.0
2.	Input RMS AC Current	IES LM79-08/Cl. No.: 8.0
3.	Input AC Power	IES LM79-08/Cl. No.: 8.0
4.	Power factor	As per customer's request
5.	Frequency	IES LM79-08/Cl. No.: 8.0
6.	Total Luminous Flux	IES LM79-08/Cl. No.: 9.0
7.	Luminous Intensity Distribution	IES LM79-08/Cl. No.: 10.0
8.	Luminous Efficacy	IES LM79-08/Cl. No.: 11.0
9.	Chromaticity Coordinates	IES LM79-08/Cl. No.: 12.0
10.	Correlated Colour Temperature	IES LM79-08/Cl. No.: 12.0
11.	Colour Rendering Index	IES LM79-08/Cl. No.: 12.0

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Cl. No.	Test / Requirement name	Test result/ observation
8.0	Electrical Instrumentation The Electrical Characteristics measured for AC Powered SSL Products are	
	1. Input RMS AC Voltage	239.54V
	2. Input RMS AC Current	0.0814A
	3. Input AC Power	20.1W
	4. Power Factor	0.9704
	5. Frequency	49.99Hz
9.0	Total Luminous Flux	2314.76 lm
10.0	Luminous Intensity Distribution	1831 cd
11.0	Luminous Efficacy	115.16 lm/W
12.0	Color Characteristics (Centre) (Average)	
	1. Chromaticity Coordinates	x= 0.3396, y= 0.3607
	2. Correlated Color Temperature (Average)	6519K
	3. Color Rendering Index (Average)	80 Ra

Supplementary Information:

- The sample is tested according to IES LM 79-08.
- Photometric parameters are obtained using C-type Goniophotometer and software.
- The sample has been operated at AC 240V.
- The sample has been operated for 45 minutes prior to measurement for a stable condition and total Measurement time is 95 minutes.
- The orientation (burning position) of SSL product during test is its normal burning position.
- The test distance is greater than 15 times the maximum light emitting area.
- Total Spectral Radiant Flux Lamp, D908S of 600W (Omni-directional) and NPL calibrated (National standard traceable) has been used as Standard Lamp.

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[Signature]



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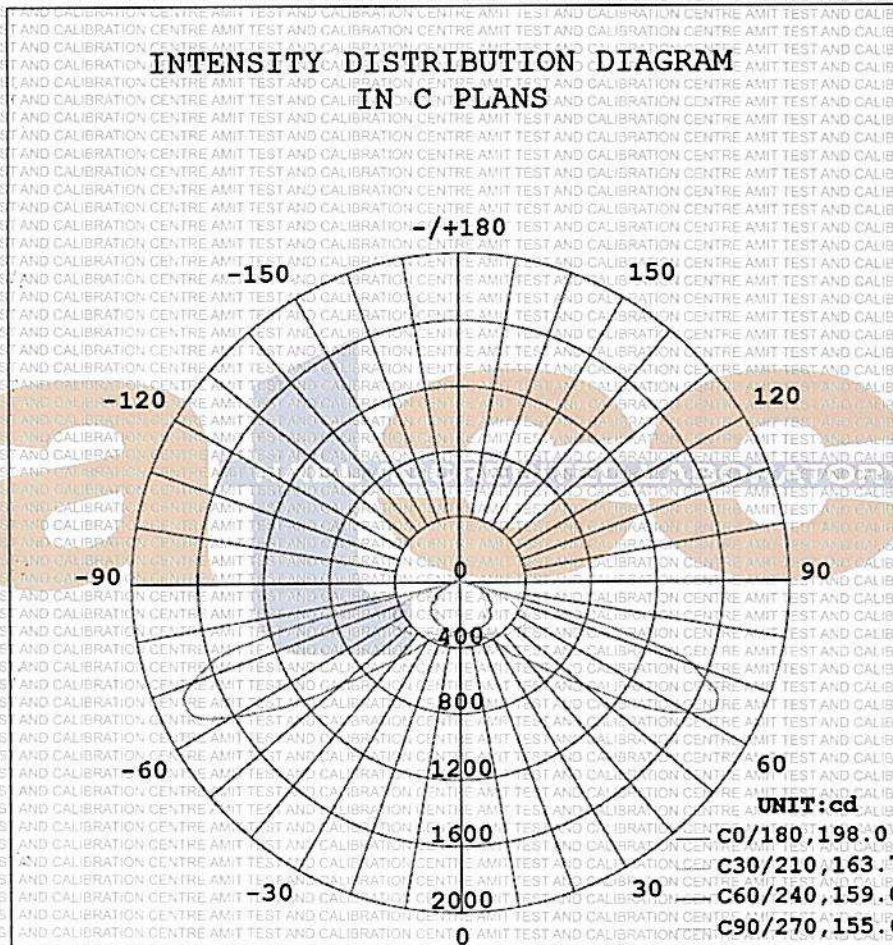
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Attachment 1: Luminous Intensity Distribution Curve

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



AVERAGE BEAM ANGLE (10%): 169.1 DEG

UNIT: cd
 c0/180, 198.0
 c30/210, 163.7
 c60/240, 159.0
 c90/270, 155.6

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TEST REPORT

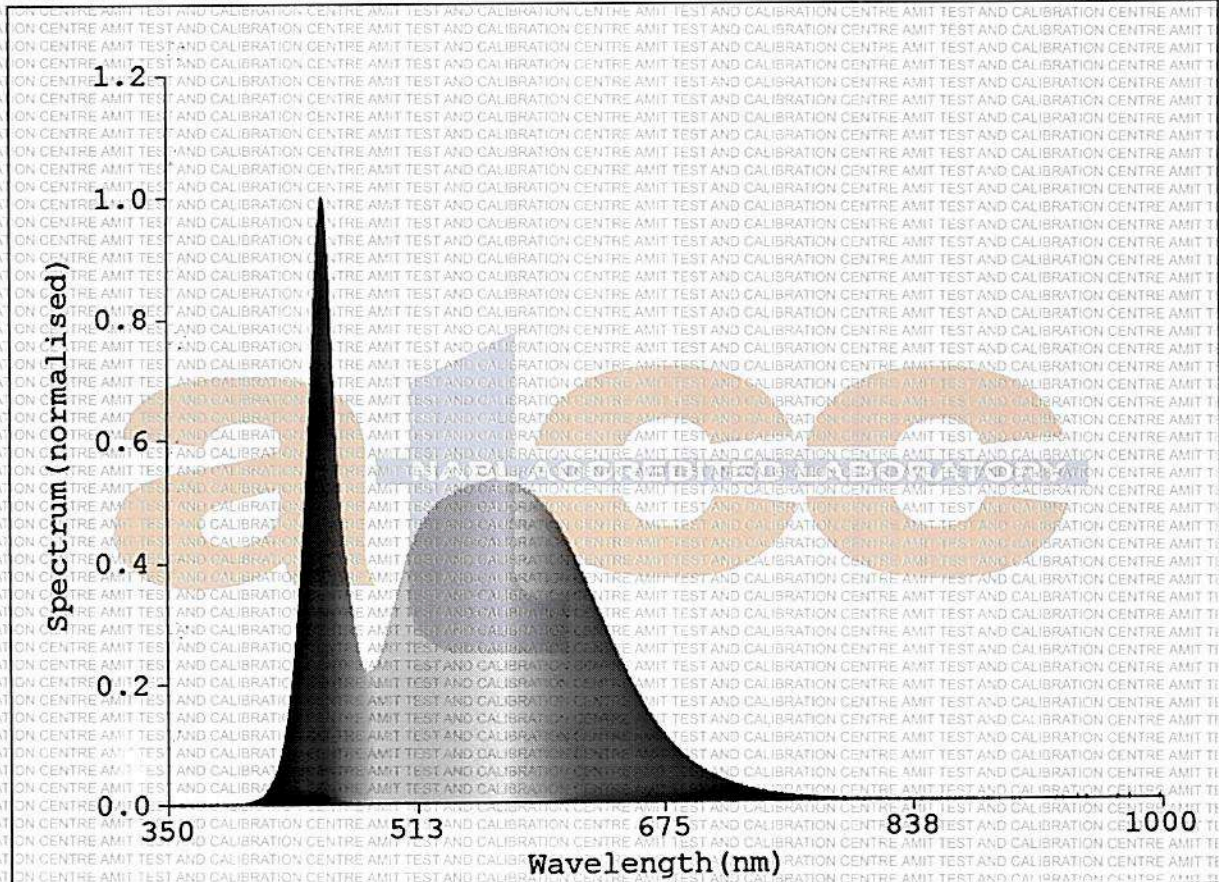
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Attachment 2: Spectral Power Distribution



Tested By

Roshan



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TEST REPORT

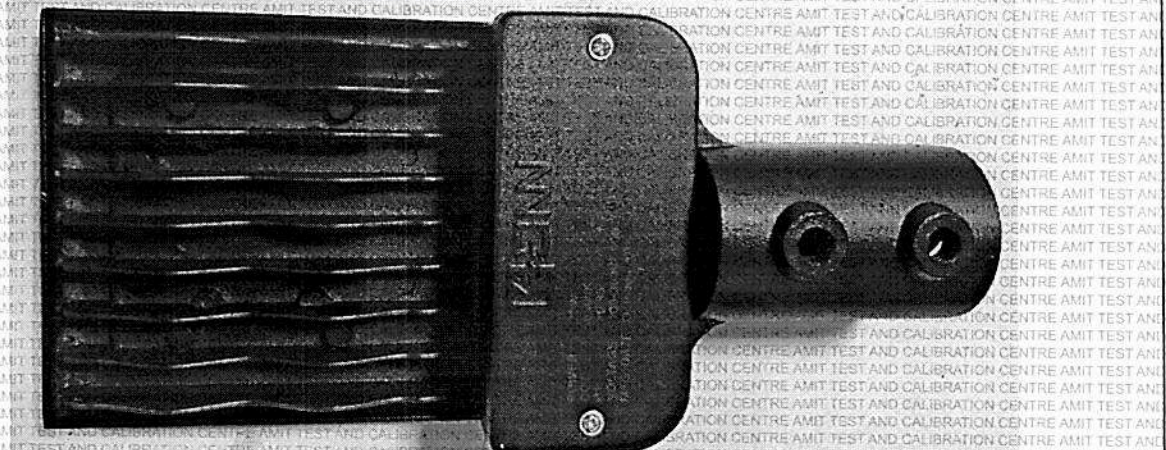
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Attachment 3: Photographs



*****END OF TEST REPORT*****

Tested By

Deekha



Approved By

[Signature]