



Certificate No. : T-3359

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

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TEST REPORT

Sheet 1 of 3

NAME & ADDRESS OF CUSTOMER M/s. NEXTRAY TECHNOLOGIES. Shop No 1-2, Hemdeep Tower, B/h Fatehgunj post office, Fatehgunj Vadodara, Gujarat- 390002, India.	REPORT NO. : RP-1516-031753 DATE : 26.11.2015	
	CUSTOMER REF. NO.: Letter dtd.: 19.11.2015	
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	20.11.2015	21.11.2015
SAMPLE DESCRIPTION LED based road and street light Luminaire Brand : " NEXTRAY "	SAMPLE IDENTIFICATION ERDA Sample Code No. : ERDA-00115767	
Model No.: NXT-25-SL-A, Sr No.: 65191115001, No. of LEDs: 120. Following Specifications were declared by customer : Rated Wattage : 25W, Rated supply voltage : 240V AC.		
TEST DETAILS 1. Total luminous flux measurement and Luminous efficacy 2. Colour characteristics	TEST SPECIFICATION As per IES LM-79-08 [Clause No.9.0 & 11.0] [Clause No.12.0]	
Enclosures : Photograph No.: ERDA-00115767/1 and ERDA-00115767/2 Witnessed by : Mr. Chinkesh Patel of M/s. NEXTRAY TECHNOLOGIES. Remarks : No remarks regarding conformity is given for above tests as no tolerances for the parameters were declared by customer.		
 PREPARED BY	 CHECKED BY	 APPROVED BY Nitin L. Patel

Note : 1. This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara.

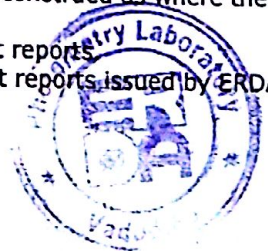
2. This report cannot be reproduced in part under any circumstances.

3. Publication of this report requires prior permission in writing from Director, ERDA.

4. Only the test asked for by the customer have been carried out.

5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has arisen.

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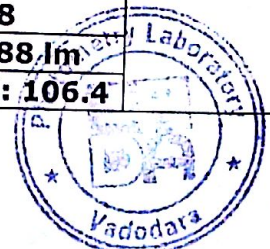
Sheet 2 of 3

Sr. No.	Particulars of test and clause no.	Requirement as per specification	Obtained value	Remarks
1.	Total luminous flux measurement and Luminous efficacy [Clause No.9.0 & 11.0]		The sample was operated in integrating sphere with below mention test conditions. Test conditions > Number of hours prior to measurement : 1 hour. > Total operating time of the product for measurement including stabilization : 1 hour > Orientation (burning position) : 4 π geometry > Photometric method : Sphere spectroradiometer system > Designation and type of reference standard used: 75W, Tungsten halogen lamp, Omni-directional, Traceability: NIST, USA > Self absorption correction factor. > Diameter of sphere : 2 meter, Coating reflectance : 98%, 4 π geometry > 350 nm to 1050 nm for spectral flux. > Equipment used: Precision Power Analyzer (Yokogawa Make), Integrating sphere with spectral flux measurement system Labs sphere, USA. After the stabilization the value of total luminous flux and luminous efficacy were as follow. Ambient temperature.: (25±1)°C Test voltage : 240V AC, Test frequency : 50 Hz, Supply current : 0.1071 A Total power : 25.26 W Power factor: 0.9828 Total luminous flux : 2688 lm Luminous efficacy [lm/w]: 106.4	-----
		correction factors applied		
		Photometric measurement conditions.		
		Bandwidth of spectro radiometer		

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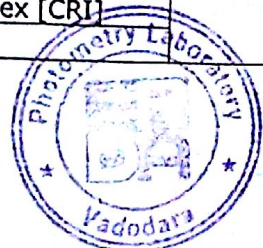
Date: 26.11.2015

Sheet 3 of 3

Sr. No.	Particulars of test and clause no.	Requirement as per specification	Obtained value	Remarks	
2.	Colour characteristics [Clause No.12.0]		The sample was operated in integrating sphere with below mention test conditions.	-----	
			Test conditions		
			➤ Number of hours prior to measurement : 1 hour.		
			➤ Total operating time of the product for measurement including stabilization : 1 hour		
			➤ Orientation (burning position): 4 π geometry		
			➤ Photometric method : Sphere spectroradiometer system		
			➤ Designation and type of reference standard used: 75W, Tungsten halogen lamp, Omni-directional, Traceability: NIST, USA		
			correction factors applied		➤ Self absorption correction factor.
			Photometric measurement conditions.		➤ Diameter of sphere : 2 meter, Coating reflectance : 98%, 4 π geometry
			Bandwidth of spectroradiometer		➤ 350 nm to 1050 nm for spectral flux.
		➤ Equipment used: Precision power Analyzer (Yokogawa Make), Integrating sphere with spectral flux measurement system labs sphere USA.			
		After the stabilization the value of chromaticity co-ordinates, correlated colour temperature and colour rendering index measured were as follow.			
		Test voltage : 240V AC, Test frequency : 50 Hz Ambient temperature.: (25±1)°C			
a)Chromaticity co-ordinates	-----	Chromaticity co-ordinates [x, y]			
		X	y		
		0.319	0.341		
b)Correlated colour temperature	-----	Correlated colour temperature [CCT]			
		6115.0 Kelvin			
c)Colour rendering index	-----	Colour rendering index [CRI]			
		81.1			

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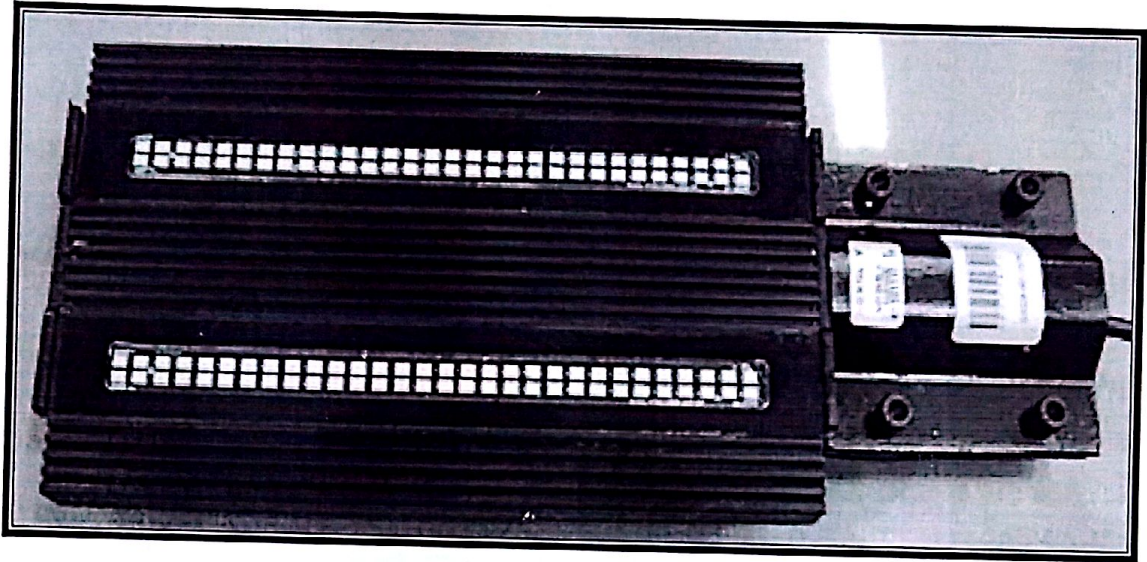
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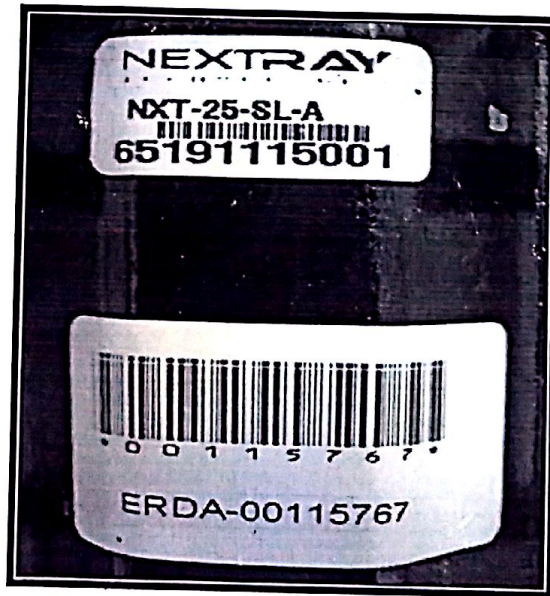


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PHOTOGRAPH NO: ERDA-00115767/1
COMPLETE PHOTOGRAPH OF 25W LED STREET LIGHT LUMINAIRE



PHOTOGRAPH NO: ERDA-00115767/2
PHOTOGRAPH OF MARKING OF 25W LED STREET LIGHT LUMINAIRE

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