

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.

EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

Fax : +91 (0265) 2638382 E-mail : erda@erda.org Web : http://www.erda.org



TEST REPORT						
NAME & ADDRESS OF THE		Sheet 1 of 3				
NAME & ADDRESS OF CUSTOMER	REPORT NO. : RP-1516-031753					
M/s. NEXTRAY TECHNOLOGIES.	DATE : 26.11.2015					
Shop No 1-2, Hemdeep Tower,	CUSTOMER REF. NO.:					
B/h Fatehgunj post office,	Letter dtd.: 19.11.2015					
Fatehgunj Vadodara,	DATE OF SAMPLE	DECEMBER STATE OF STA				
Gujarat- 390002, India.	RECEIPT	TESTING				
SAMPLE DESCRIPTION	20.11.2015	21.11.2015				
22 DESCRIPTION	SAMPLE IDENTIFICATION					
LED based road and street light Luminaire Brand: " NEXTRAY " Model No.: NXT-25-SL-A, Sr No.: 65191115001, No. of LEDs: 120.	ERDA Sample Code No. : ERDA-00115767					
Following Specifications were declared by customer: Rated Wattage: 25W, Rated supply voltage: 240V AC.						
TEST DETAILS	TEST SPECIFICATION					
	As per IES LM-79-0	08				
Total luminous flux measurement and Luminous efficacy	[Clause No.9.0 & 11.0]					
2. Colour characteristics	[Clause No.12.0]					
Enclosures : Photograph No.: ERDA-00115767/	1 and ERDA-0011576	7/2				
withessed 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

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 arised.

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Report No.: RP-1516-031753

Date: 26.11.2015 Sheet 2 of

Particulars of and clause no. In the sample was operated in integrating sphere with below mention test conditions. [Clause No.9.0 & 11.0] [Clause No.9.0 & 15.0] [Clause N	Sr.	Date: 26		Date: 26.11.2015	heet 2 of
The sample was operated in integrating sphere with below mention test conditions. Test conditions		viculuis of their	as per		
[Clause No.9.0 & 11.0] Test conditions	1.	measurement and		integrating sphere with below	
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 Photometric measurement conditions. Bandwidth of spectro radiometer > 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: 1288 Imp. 1290 120 121 122 123 124 125 126 126 126 126 126 127 128 129 129 120 120 120 120 120 120		[Clause No.9.0 & 11.0]		Test conditions > Number of hours prior to measurement: 1 hour.	
Photometric method : Sphere spectroradiometer system				for measurement including stabilization: 1 hour	
standard used: 75W, Tungsten halogen lamp, Omni-directional, Traceability: NIST, USA correction factors applied Photometric measurement conditions. Bandwidth of spectro - radiometer > 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 fm				π geometry > Photometric method : Sphere spectroradiometer system	
Self absorption correction factor.				75W, Tungsten halogen lamp, Omni-directional, Traceability:	
Conditions. Bandwidth of spectro radiometer 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./m Total luminous flux: 2688./m			factors applied Photometric	> Self absorption correction factor.	
for spectral flux. Fadiometer Figure 1			conditions. Bandwidth of	Coating reflectance : 98%, 4 π geometry ≥ 350 nm to 1050 nm	
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.lim			radiometer	for spectral flux. > Equipment used: Precision Power	
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				Analyzer (Yokogawa Make), Integrating sphere with spectral flux measurement system Labs	
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/m			1 0	After the stabilization the value of cotal luminous flux and luminous efficacy were as follow.	
Total power: 25.26 W Power factor: 0.9828 Total luminous flux: 2688/m ²				Test voltage: 240V AC, Test frequency: 50 Hz,	
Luminous efficacy [lm/w]: 106.4				Total power: 25.26 W Power factor: 0.9828 Total luminous flux: 2688/m	ibo
THE WILL STREET	5		L	uminous efficacy [lm/w]: 106.4	1/2

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CHECKED BY

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Rep	ort No.: RP-1516-0	031753	Date: 26.11.2	2015	26114	
Sr. No.	Particulars of test and clause no.	Requirement as pe specification		ined value	Remarks	
2.	Colour	specification	The			
	characteristics		inte sample	was operated in		
			mention took	ohere with below		
	[Clause No.12.0]		mention test	conditions.]	
	-		Number of	<u>conditions</u>		
			> Number of	hours prior to		
			measurement	it; I nour.		
		14(20.00)	product	ating time of the		
		And the second second		for measurement bilization : 1 hour	-	
			> Orientation	(burning position):		
			4 π geometr	v (burning position):		
	8	Michigan de Loro China	> Photometric	method : Sphere		
			spectroradio	meter system		
			➤ Designation	and type of		
			reference sta	and type of		
			75W, Tungs	sten halogen lamp,		
			Omni-direction	onal, Traceability:		
			INIST, USA	, wasaabiiicy.		
	1 9	correction factors	Self abso	rption correction		
		applied	factor.			
	1 1	Photometric	Diameter of sphere : 2 meter			
		measurement conditions.	l Coating ref	lectance : 98%		
1			4 π geometr	y	4, 4	
	Right III	Bandwidth of spectro- radiometer				
		radiofficter	for spectral f			
			> Equipment			
			power Ana	lyzer (Yokogawa		
			Make), Integrating sphere with spectral flux measurement		1	
			spectral flux measurement system labs sphere USA.			
			After the stabili	zation the value of		
	2 - 1		chromaticity		-	
				co-ordinates, r temperature and		
	· ·		colour rendering	g index measured	- 1	
			were as follow.	a mack measured		
				e : 240V AC,		
			Test freque	ency · 50 Hz		
-)Chrometic'i		Ambient temper	Test frequency : 50 Hz Ambient temperature.: (25±1)°C		
١٥	a)Chromaticity co-ordinates		Chromaticity co	Chromaticity co-ordinates [x, y]		
ł	co ordinates		X	γ		
h)Correlated colour		0.319	0.341	. 7	
	temperature		Correlated colour	temperature [CCT]		
c)Colour rendering		6115,0	6115.0 Kelvin		
	index		Colour render	3 Page 1		
1	81.1 Solly Labor					

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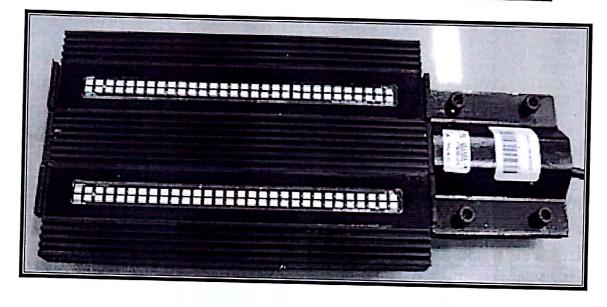
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Date: 26.11.2015



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





