



Vardhamana Testing Laboratory

(LABORATORY IN ELECTRICAL, ELECTRONICS & PHOTOMETRY TESTING)
Plot No.-403, Udyog Kendra-II, Ecotech-III, Greater Noida-201306 (U.P.)
Tel. : 0120-6811256

E-mail: info@vardhamanatestlab.com , Web.: www.vardhamanatestlab.com



TEST REPORT

Discipline:	Photometry	Group:	Format No. :VTL/FR/19
Location of testing performance of the Laboratory & its Address:	Vardhamana Testing Laboratory Plot No 403, Udyog Kendra Extn -II Ecotech -3, Greater Noida.		
Test Method & Procedure :	As per IES LM 79-08		
Report No. :	VTL/TR/2024/10/125	Issue Date :	25/11/2024
ULR No. :	TC1124024000002024F	Page No. :	1 of 5
Name & Address of Manufacturer:	InnovateNX PVT. LTD. 03, Sukh Samriddhi Parisar, Shivaji Nagar Moti Bungalow, Dewas, Madhya Pradesh 455001		
Name & Address of Applicants :	InnovateNX PVT. LTD. 03, Sukh Samriddhi Parisar, Shivaji Nagar Moti Bungalow, Dewas, Madhya Pradesh 455001		
PART A. PARTICULARS OF SAMPLE SUBMITTED BY CUSTOMER			
a) Sample Name:	150W Street light poly model		
b) Sample Description (Rating/ Class/Type etc.)	AC 120-280V, 50Hz, 150W, >18000lm, 6200K-6500K, 131lm/W, P.F: >0.98		
c) Model No.	INX-SPLY-150W		
d) Brand Name:			
e) Quantity of Sample:	01		
f) Date of Receipt of Sample:	24/10/2024		
g) Date of performance of testing:	24/10/2024		
h) Condition of sample received :	Good		
i) Environmental Conditions :	25±1°C/ 53% RH		
j) Code No./ Sr. No. / Batch No. / Date of Manufacturer/ Seal & IO's sign , if any	---		
k) Any Other Information , If Any:	Rated Voltage: AC 120-280V, Test Voltage: AC 230V, Rated Wattage: 150W, Rated Lumen: >18000lm, P.F: >0.98, Rated Frequency: 50Hz, Rated Colour Temperature: 6200K-6500K, Rated Colour Rendering Index: >80, Rated Luminous efficacy: 131lm/W		
PART B: 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) :	See Attachment 1		
c) Deviation from the test methods as prescribed in relevant ISS/ work instructions,	N/A		
Tested By:	Approved By (Authorized Signatory):	Issued By:	
			
Bhuvan Verma (Testing Engineer)	R.K. Srivastava (Technical Manager)	Pooja Jain (Lab Head)	



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DISCIPLINE : Photometry

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Issue Date:25/11/2024

GROUP: Luminaries

Tests Conducted:

Sl. No.	CL. no.	Tests with Clause No.	Parameter	Observation
1.		Electrical Parameter		
a.	8	(LM-79-08)	Input Voltage (V)	230.23V
b.			Input Current(I)	0.6601A
c.		---	power(W)	150.18W
D			Power Factor	0.9882
2.a)	9	Photometric Parameter (LM 79-08)	Luminous Flux	19627.34 lm
b.	10		Luminous Intensity Distribution	Graph attached
c	11		Luminaire Efficacy	130.69 lm/W
3.	12	Colour Characteristics (LM 79-08)	Chromaticity -Coordinate	
a.			x- Coordinate	0.3173
b.			y-Coordinate	0.3434
c.			Correlated Colour Temperature	6371K
d			Render Index	80.0



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<i>Bhuwan</i>	<i>R.K. Srivastava</i>	<i>Pooja Jain</i>
Bhuwan Verma (Testing Engineer)	R.K. Srivastava (Technical Manager)	Pooja Jain (Lab Head)



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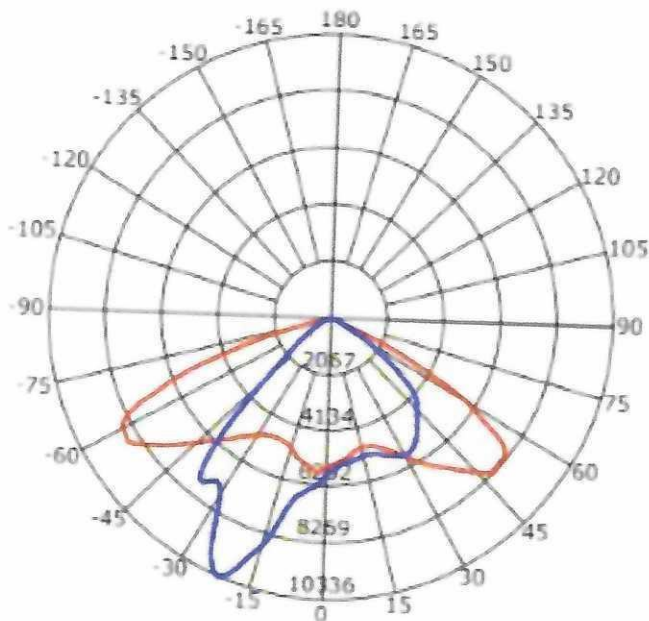
DISCIPLINE : Photometry

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Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 135.9 deg,84.5 deg

C0-180 ——— C90-270 ———



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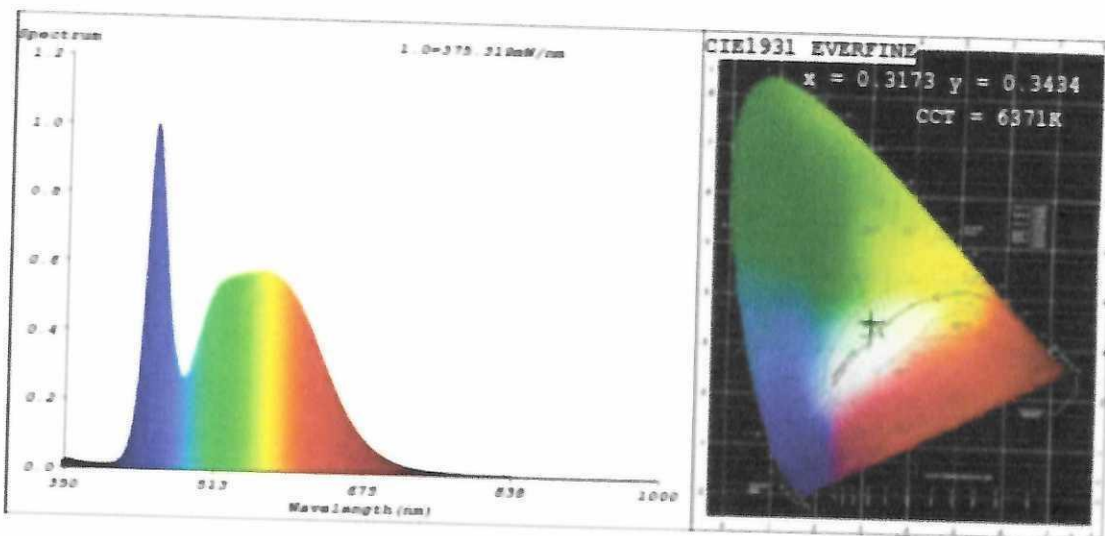
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GROUP: Luminaries

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3173$ $y=0.3434$ $u'=0.1957$ $v'=0.4765$

$CCT=6371K$ ($Duv=0.0082$) Dominant WL: $\lambda_d = 499.9nm$ Purity=4.9%

Ratio: R=12.9% G=81.9% B=5.1%, Peak WL: $\lambda_p = 445.7nm$ FWHM=25.9nm

Render Index: $R_a=80.0$ AvgR=72.5

R1 =76 R2 =84 R3 =90 R4 =81 R5 =79 R6 =80 R7 =86

R8 =64 R9 =0 R10=63 R11=80 R12=62 R13=78 R14=95 R15=69



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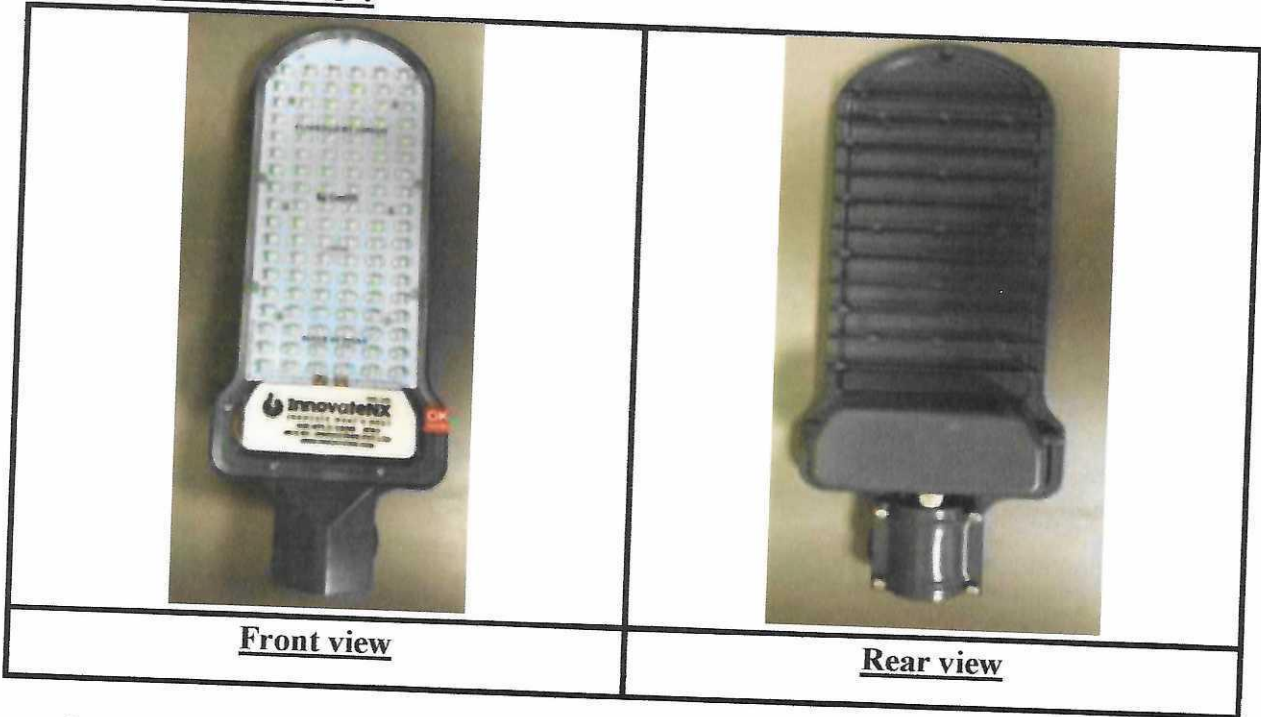
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SAMPLE PHOTO:-



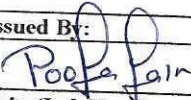


General Remarks :

1. This Report refers to the particular item submitted for testing.
2. This Report shall not be reproduced, except in full, unless written permission for the publication of an approved abstract has been obtained from the Authorised Signatory of VARDHAMANA TESTING LABORATORY GREATER NOIDA
3. The results reported in the report are valid at the time of and under the stated conditions of measurement.
4. VTL is not giving any decision rule. Only statement of conformity is given as per standard if applicable and required by the customer.

End of Test Report



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