

C-45, Sector-65, Noida-201 307 (U.P.)

Ph.: 0120-4279394, Contact: 9717699751

Email: classiclab@gmail.com, Website: www.classictestinglab.com



Cert. No. TC-5099

TEST REPORT

U	L	R	-	T	C	5	0	9	9	1	9	0	0	0	0	0	0	0	9	0	F
	Т	EST R	EPOR	TAS	PER: I	ESLM	-79-0	8						Recei	pt No	.: CI/	TES/2	K19-2	0/05	/016	-
r					ustom OGIES		1990/00			o.: CI/			20/05	/016				×			
		PRIV	ATE L	IMITE	D		Customer Ref. & Date: 09/05/2019														-
					E, SID d-249		2.5		ampl 09/05	e /2019	9	0.0	t of T 05/20	est D	ate;			of Te /05/2		te:	- 1
	sting Idress	labora	atory	and i	ts		(3.0337)			UME!				D.							

PART A - PARTICULARS OF THE SAMPLE SUBMITTED

Sample description:	Self-Ballasted LED Lamps for General Lighting Services
Grade/variety/type/class/size etc.	230Vac, 50Hz, 9W, 900 lm, 0.045A, 6500K, 100lm/W, P.F: >0.9, B22d cap type
Declared values, if any	Rated Voltage: 230Vac, Test Voltage: 230Vac, Rated Wattage: 9W, Rated Lumen: 900lm, Rated Frequency: 50Hz, Rated Current: 0.045A, Rated Colour Temperature: 6500K, Rated Colour Rendering Index: ≥80, Total lamp length: 110 mm Max, Total lamp diameter: 60 mm Max
Brand Name and Model no.	"HAL@NIX" ASTRON PLUS 9W CW B
Quantity	1 No.
Condition of the sample	OK
Reference specification (s)	IES LM-79-08 (Tests have been carried out as per customer's request)
Environmental conditions:	Temperature: (25±1)°C & Relative Humidity <65%

Tested by:	Approved by / Authorized Signatory:	Issued by:
anly	Colorsed 2	8
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manager (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019

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PART B - SUPPLEMENTARY INFORMATION

Test Report No.: CI/TES/2K19-20/05/016

- a) Deviation from the test methods as per relevant specification/SOP, if any:
- b) Details of drawings, graphs, tables or photographs as referred in the test report, if any:
- c) Testing procedure according to SOP CI/TES/SOP/PHOTOMETRY-01, CI/TES/SOP/LFE and CI/TES/SOP/CCT.
- d) The Management System is maintained in accordance with IS/ISO/IEC 17025.

Notes:

- i) This report is not to be reproduced wholly or in part without written permission of testing laboratory.
- ii) This report refers only to the particular sample detailed above.
- iii) The results reported in this certificate are valid at the time of and under stipulated conditions of measurements.





Tested by:	Approved by / Authorized Signatory:	Issued by:
anny	(dr	
Testing Engineer (Rinku Sharma)	Laboratory Head (Manoj Kumar)	Asst.Technical Manage (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019

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U	L	R	-	Т	С	5	0	9	9	1	9	0	0	0	0	0	0	0	9	0	F
PAR	TC-	TEST	RESU	LT									Te	st Re	port N	lo.: C	I/TES	/2K19	-20/0	5/01	5

PART C - TEST RESULT

Test Equ	upment:

S.No.	Equipment ID	Equipment Name	Make	Traceability	Calibration Valid Upto
1.	CI/TES/GP/001	Type-C Goniophotometer (Standard Lamp)	Sensing	18010963/D1.04/C-396	23/02/2020
2.	CI/TES/247	Integrating Sphere (Standard Lamp)	Everfine	18010963/D1.04/C-396	23/02/2020
3.	CI/TES/250	Digital Power Meter	Everfine	CI/2K18-2K19/01/025	09/01/2020

Test Results:

S. No	TESTS WITH CLAUSE REFERENCE		SPECIFIED REQUIREMENT	RESULTS
1.	Photometric Results	i)	Total Luminous Flux	900.86 lm
	(IES LM-79-08)	ii)	Luminous Efficacy	102.16 lm/W
		iii)	Luminous intensity	172.735 cd
		iv)	Luminous intensity distribution	Graph Attached
		v)	Chromaticity Co-ordinates	x= 0.3188 y= 0.3333
		vi)	Correlated Colour Temperature	6157 K
		vii)	Color Rendering Index	83.7
2.	Electrical Results	i)	Input Power	8.818 W
	(IES LM-79-08)	ii)	Input Voltage	230Vac
		iii)	Input Current (Amps)	0.041 A
		iv)	Power Factor	0.939
	¥7	v)	Input Frequency (Hertz)	50Hz
3.	Additional Parameters	i)	Stabilization time	45 Minutes
	(C. 40	ii)	Photometric Method Used	IES LM-79-08 Using C type- Goniophotometer

Tested by:	hathorized Signatory:	Issued by:
anny	Additionised 2	D
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manager (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019

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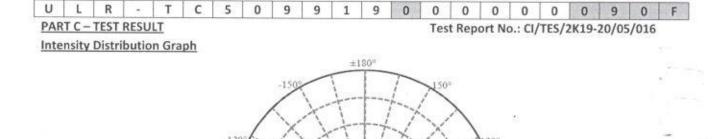
C-45, Sector-65, Noida-201 307 (U.P.)

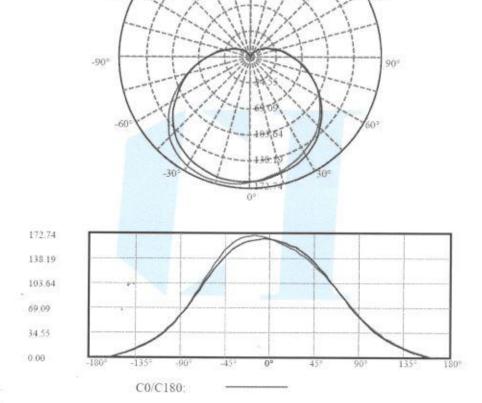
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Cert. No. TC-5099





C90/C270:



Approved by / Tested by: Issued by: Authorized Signatory: **Testing Engineer** Laboratory Head Asst.Technical Manager (Rinku Sharma) (Manoj Kumar) (Surendra Kumar) Dated:18/05/2019 Dated:18/05/2019 Dated:18/05/2019



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PART C - TEST RESULT Light Intensity Data (cd) Test Report No.: CI/TES/2K19-20/05/016

C/y(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	165.17	162.47	159.14	156.07	152.47	148.60	144.01	138.96	133.7
15.0	165.89	163.19	160.04	156.52	153.01	149.32	145.09	140.40	135.13
30.0	164.45	162.02	158.78	155.17	151.48	148.06	143.29	138.24	133.03
45.0	165.17	163.10	160.22	157.06	153.28	149.86	145.81	140.85	135.83
60.0	164.18	162.20	159.50	156.25	153.19	149,59	145.18	140.13	134.40
75.0	164.81	163.46	161.30	158.60	155.71	152.47	148.60	143.83	138.43
90.0	164.27	163.28	161.30	158.78	156.07	152.92	149.14	143.92	138.5
105.0	172.74	172.38	171.38	169.76	167.51	164.63	160.76	155.71	149.05
120.0	169.85	170.48	170.48	169,40	167.96	165.53	162.29	157.61	151.75
135.0	168.59	169.58	169.49	168.95	167.42	165.08	161.84	156.88	150.49
150.0	166.70	168.23	169.22	169.04	168.32	166.79	163.91	159.86	154.13
165.0	166.70	168.32	169.22	169.13	168.23	166.70	163.82	158.69	152.4
180.0	165.17	167.33	168.77	169.13	168.95	167.78	165.26	161.39	156.0
195.0	165.89	167.87	168.77	169.04	168.41	166.97	164.45	159.50	153.0
210.0	164.45	166.61	167.96	168.32	168.14	166.88	164.54	160.67	155.17
225.0	165.17	166.70	167.51	167.51	166.52	164.72	161.84	157.06	151.2
240.0	164.18	165.71	166.34	166.34	165.35	163.82	161.12	156.97	151.75
255.0	164.81	165.44	165.35	164.45	163.10	160.76	157.61	152.65	146.20
270.0	164.27	164.81	164.45	163.55	161.75	159.50	156.25	152.11	146.7
285.0	172.74	172.10	170.75	168.95	166.61	163.82	160.22	155.26	149.4
300.0	169.85	168.59	166.52	164.45	161.48	158.15	154.00	148.69	143.02
315.0	168.59	166.88	164.63	161.93	158.87	155.80	151.84	146.98	141.39
330.0	166.70	164.45	161.57	158.42	154.99	151.75	147.07	142.39	136.20
345.0	166.70	164.45	161.39	157.97	154.54	150.94	146.98	142.02	136.80
360.0	165.17	162.47	159.14	156.07	152.47	148.60	144.01	138.96	133.74



Tested by:	Approved by / Authorized Signatory:	Issued by:
anku	O Corised 2	Dr
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manage (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019



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PART C - TEST RESULT

Test Report No.: CI/TES/2K19-20/05/016

Light Intensity Data Unit(cd)

C/γ	(°) 45	5.0	50.0	55.0	60.0	65.0	70.0	. 75.0	80.0	85.0
0.0	12	26.98	120.14	113.39	104.92	97.63	89.07	80.42	72.50	64.03
15.0	1.7	29.15	122.66	115.01	107.44	99.43	91.41	82.77	74.75	66.82
30.0	1.	26.35	119.60	112.30	104.02	96.72	87.72	80.51	72.05	63.94
45.0	1.	29.42	122.66	115.28	107.26	99.43	90.87	82.59	74.39	66.10
60.0	1.	27.98	120.50	113.39	105.19	96.00	88.17	79.34	71.33	63.13
75.0	13	32.03	125.00	116.81	108.79	100.24	91.59	82.50	74.03	65.83
90.0	13	31.22	123.47	115.73	106.18	98.08	88.53	80.15	70.61	62.41
105	.0 14	11.84	134.28	124.28	114.83	104.47	94.47	85.38	74.66	66.64
120	.0 14	44.91	136.80	127.80	117.44	107.44	97.17	87.00	77.09	67.18
135	0 14	43.11	135.09	124.73	114.11	102.76	93.03	82.95	72.50	63.85
150	.0 14	\$7.07	138.60	128.61	118.43	107.71	96.81	85.47	75.29	65.65
165	.0 14	44.73	136.98	125.72	114.38	103.48	92.49	82.86	71.87	61.24
180	0 14	48.60	139.95	130.14	119.60	108.34	96.45	85.47	74.84	64.39
195	.0 1	15.27	136.80	125.99	115.28	103.66	92.31	81.95	70.34	61.24
210	.0 14	48.15	139.77	129.96	118.97	107.80	96.63	84.84	74.84	64.48
225	.0 14	13.92	135.63	124.73	113.75	102.76	92.40	81.86	71.51	60.88
240	.0 14	44.55	136.89	126.98	117.17	106.63	95.10	84.57	74.30	64.84
255	0 13	39.32	131.40	121.13	111.67	100.96	90.96	81.05	70.70	61.15
270	.0 13	39.59	132.12	123.20	113.57	103.75	93.84	83.94	74.30	64.84
285	.0 14	12.66	134.82	125.81	116.72	107.17	97.54	87.00	77.81	68.72
300	.0 13	35,54	127.71	120.32	110.77	101.59	93.30	82.86	73.94	65.02
315	.0 13	34.82	127.98	119.87	111.58	102.94	93.75	84.84	76.19	67.73
330	.0 12	29.60	122.66	115.46	106.90	98.62	90.15	81.05	72.50	64.66
345	.0 13	30.59	123.92	116.63	108.43	100.33	92.04	83.22	75.56	67.00
360	.0 13	26.98	120.14	113.39	104.92	97.63	89.07	80.42	72.50	64.03



Tested by:	Approved by / Authorized Signatory:	Issued by:
ainly	O matory D	b
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manager (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019

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PART C - TEST RESULT

Test Report No.: CI/TES/2K19-20/05/016

Light Intensity Data Unit(cd)

C/y(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	56.11	49.80	43.23	37.28	32.24	27.11	23.24	19.45	16.12
15.0	59.26	51.78	45.21	39.27	33.86	28.82	24.41	20.53	17.11
30.0	56.11	49.53	43.14	36.83	32.24	27.02	22.79	19.27	15.76
45.0	58.54	51.33	44.49	38.91	33.23	28.46	24.14	20.17	16.84
60.0	55.39	48.63	42.51	35.93	31.52	26.30	22.42	18.73	15.22
75.0	58.09	50.88	43.86	37.92	32.51	27.56	23.60	19.54	16.21
90.0	54.67	48.00	41.25	35.30	30.08	25.76	21.70	18.01	14.77
105.0	57.82	49.89	43.41	36.83	31.52	26.93	22.15	18.46	14.95
120.0	58.72	50.70	43.41	37.47	31.61	26.93	22.42	18.55	15.31
135.0	54.67	46.74	40.62	34.58	29.18	24.68	20.62	16.93	13.60
150.0	56.83	48.99	41.52	35.39	30.17	25.40	21.07	17.56	14.23
165.0	53.68	45.21	38.82	32.96	28.10	23.87	19.45	16.03	13.15
180.0	55.93	47.55	40.80	34.67	29.18	24.68	20.71	17.02	13.96
195.0	52.05	44.58	38.64	32.33	27.92	23.24	19.45	15.76	12.52
210.0	55.57	47.64	40.35	34.31	29.18	24.59	20.71	16.93	13.78
225.0	53.41	44.40	38.37	32.78	28.01	23.24	19.27	15.76	12.97
240.0	55.93	47.73	40.80	34.85	29.63	24.77	20.80	17.20	14.05
255.0	53.50	45.30	39.27	33.23	28.55	23.96	19.72	16.30	12.97
270.0	56.38	48.81	42.06	35.57	30.35	25.76	21.70	17.92	14.59
285.0	60.25	52.51	45.21	39.00	33.41	28.28	24.05	19.99	16.48
300.0	57.10	49.71	43.32	36.83	31.79	27.20	22.70	19.27	15.58
315.0	59.71	52.05	45.21	39.09	33.23	28.46	24.05	20.26	16.75
330.0	56.47	50.16	43.23	37.01	32.15	27.11	23.15	19.36	15.67
345.0	59.44	52.14	45.21	39.45	33.77	28.82	24.59	20.44	16.93
360.0	56.11	49.80	43.23	37.28	32.24	27.11	23.24	19.45	16.12



Tested by:) Approved by / Authorized Signatory:	Issued by:
ainka	Audionsed Z	Dr
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manager (Surenora Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019

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	P	ART	C - TES	TRE	SULT			A		*		Te	st Rer	ort N	lo.: CI/	TES	2K19-	20/0	5/016	
	1	ight I	ntensit	v Da	ta Unit	(cd)														
	-	igner	intensit	y Da	ta Onit	(cu)														
			C/y(°))	135.0	140.0		145.0	1	50.0	15	5.0	160	0.0	165.	0	170.0)	175.0	
			0.0		12.88	9.91		7.47	- 5	.13	3.2	4	1.1	7	0.00		0.00		0.00	
			15.0		13.96	10.99		8.47		.03	3.7		1.9		0.18		0.00		0.00	
			30.0		12.88	10.00		7.38		.04	3.0		1.0		0.00		0.00		0.00	_
			45.0		13.51	10.72		8.20		.67	3.6		1.8		0.00		0.00		0.00	
			60.0		12.34	9.46		7.11		.86	2.7		0.8		0.00		0.00		0.00	
			75.0		13.15	10.18	- 3	7.84	5.	40	3.4		1.4		0.00		0.00		0.00	
			90.0		11.71	8.92	- 9	6.48	4	.14	2.4		0.4		0.00		0.00		0.00	*
			105.0		11.89	9.46	3	6.57	4	.50	2.3	4	0.4	5	0.00		0.00		0.00	
			120.0		12.16	9.46	- 3	6.93	4	.68	2.7	0	0.9	0	0.00		0.00		0.00	
			135.0		10.54	8.29	- 8	5.76	3.	.69	1.8		0.0	0	0.00		0.00		0.00	
			150.0		11.35	8.65	- 3	6.30	4.	.14	2.0	7	0.4	5	0.00		0.00		0.00	
			165.0		9.91	7.75		5.22	3.	24	1.2	6	0.0	0	0.00		0.00		0.00	
			180.0		10.90	8.38		6.03	3.	96	1.4	4	0.0	0	0.00		0.00		0.00	
			195.0		9.73	7.57	3	5.22	3.	24	0.2	7	0.0	0	0.00		0.00		0.00	
			210.0		10.99	8.20		6.12	3.	.87	1.6	2	0.0	0	0.00		0.00		0.00	
			225.0		10.00	7.57		5.22	2.	97	0.8	1	0.0	0	0.00		0.00		0.00	
			240.0		11.08	8.47		6.21	4.	.05	2.0	7	0.0	0	0.00		0.00		0.00	
			255.0		10.27	8.02		5.49		42	1.4	4	0.0	0	0.00		0.00		0.00	
			270.0		11.71	9.01		6.57		23	2.3		0.0		0.00		0.00		0.00	
	7		285.0		13.51	10.54		8.02		67	3.5		0.0	0	0.00		0.00		0.00	
			300.0		12.43	9.82		7.20		95	2.7		0.0	0	0.00		0.00		0.00	
			315.0		13.60	10.72		8.20		85	3.6	0	1.8	0	0.00		0.00		0.00	
			330.0		12.70	9.91		7.29		13	3.0	6	1.1	7	0.00		0.00		0.00	
			345.0		13.96	10.99		8.47		94	3.7	8	1.8		0.00		0.00		0.00	
			2600		12 00	0.01		7 47		4.4			14 40		0.00		40.00		and the same of	

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Tested by:	y Approved by / Authorized Signatory:	Issued by:
ainky	Augusta Red Signatory	8
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manager (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019



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Tested by:	Authorized Signatory:	Issued by:
ainte	Christian 2	8
Testing Engineer (Rinku Sharma)	Laboratory Head (Manoj Kumar)	Asst.Technical Manage (Surendra Kumar)
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019

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C-45, Sector-65, Noida-201 307 (U.P.)

Ph.: 0120-4279394, Contact: 9717699751

Email: classiclab@gmail.com, Website: www.classictestinglab.com



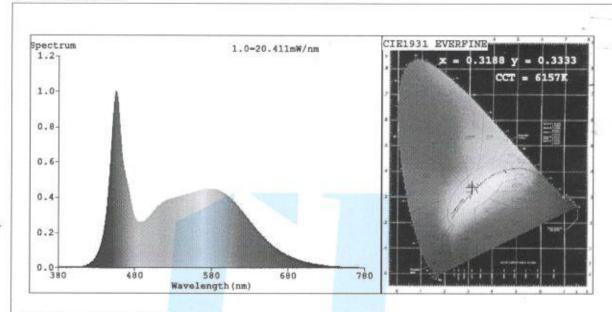
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PART C - TEST RESULT

Test Report No.: CI/TES/2K19-20/05/016

Spectral Parameter



Color Parameters:

Chromaticity Coordinate:x=0.3188 y=0.3333/u'=0.2005 v'=0.4715 CCT=6157K(Duv=0.0024) Dominant WL:Ld =491.7nm Purity=4.9%

P-14--P-14 01 0-70 01 P-6 01--P-14 01 7--455 0--- P-004 00 4

Ratio:R=14.0% G=79.8% B=6.2%; Peak WL:Lp=455.3nm FWHM=22.1nm

Render Index: Ra=83.7 AvgR=77.1

R1 =83 R2 =93 R3 =94 R4 =79 R5 =82 R6 =87 R7 =85

R8 =66 R9 =7 R10=81 R11=79 R12=58 R13=87 R14=97 R15=78



Tested by:	Approved by / Authorized Signatory:	Issued by:		
arony	O Colorsed OZ	N.		
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manager (Surendra Kumar)		
Dated:18/05/2019	Dated:18/05/2019	Dated: 18/05/2019		



C-45, Sector-65, Noida-201 307 (U.P.)

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Cert. No. TC-5099

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PART D:

Remarks: 1. The observations given in part A of the cover page of the test report are taken from the marking on the sample given by customer.

Tested by:	Approved by / Authorized Signatory:	Issued by:		
Qinky	dinorised of	So c		
Testing Engineer (Rinku Sharma)	(Manoj Kumar)	Asst.Technical Manage (Surendra Kumar)		
Dated:18/05/2019	Dated:18/05/2019	Dated:18/05/2019		

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