



Certificate No: TC-5100



HI PHYSIX LABORATORY INDIA PVT. LTD.

B-32/1/2, MIDC, Ranjangaon, Pune, Maharashtra

info@hiphysix.com, infohplindia@gmail.com

Phone : 02138 - 232901, 232902, 232903

CIN : U74120DL2009PTC194754

Mobile 1 : +91 7768005400

Mobile 2 : +91 7768005411

Mobile 3 : +91 7768005422

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TEST REPORT

TEST REPORT AS PER: IES LM 79-08 & Customer Specification

SRF No.20090349

Name & Address of Customer: M/s. PROMPT SERVICES L-141, M.I.D.C INDUSTRIAL AREA, AHMEDNAGAR, MAHARASHTRA - 414111, INDIA		ULR-TC510020000001360F Test Report No: HPLI/Test/2009034901 Date of issue: 24/09/2020	
		Customer Ref. & Date : 23/09/2020	
		Date of Sample Receipt: 23/09/2020	Start of Test Date: 23/09/2020
		End of Test Date: 23/09/2020	

PART A - PARTICULARS OF THE SAMPLE SUBMITTED

Sample description	150W LED HIGHBAY (ML HB ROUND)
Grade/ variety/ type/ class/ size etc.	150W / With Lens, 230VAC, 50Hz
Declared values, if any	Input Voltage: 230VAC, Test Voltage: 230VAC, Input Current: 0.653Amp, Input Power : 150W, Power Factor: 0.982, Input Frequency: 50Hz, Total Luminous Flux: 22500lm, Luminous efficacy: 150 lm/w, Correlated colour Temperature: 6500 K $\pm$ 500K, Rendering Index (Ra): 70 CRI
Code no., BIS seal and IO's sign. if any	Nil.
Batch no., date of manufacture and Brand Name	Brand: "Eetamax" Model No.: EELS 150W RND ML HB HL LOT NO.: E1702008
Quantity	01 Nos.
Condition of the sample	OK
Reference specification (s)	IES LM 79-08 & Customer Specification (Test have been carried out as per customer's request)
Environmental conditions	Temperature (25 $\pm$ 1) $^{\circ}$ C & Relative Humidity <65%

PART B - SUPPLEMENTARY INFORMATION

- Deviations from the test methods as per relevant specification/ work instructions, if any: Nil.
- Details of the drawings, graphs, tables, sketches or Photographs as referred in the test report, if any: Graphs & Photographs attached.
- Testing procedure according to work instructions HPLI 03/Test-Photo/WI-77.
- The Management System is maintained in accordance with IS/ISO/IEC 17025:2017 and testing Standards/Instruments are traceable to National and International Standards

Notes: i) This report is not to be reproduced wholly or in part without our special permission in writing.

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 the stipulated conditions of measurement.

iv) Remnants of the sample will be disposed off after 30 days of issue of test report, if no any further information is received.

Tested by

Checked by

Format No. HPLI 04 F31-00

Approved by

Satish Zutshi
(Vice President - Lighting Division)

www.hiphysix.com

Registered Office : B-9/51, Sector-18, Rohini, Delhi - 110089.



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Discipline: Photometry Testing
Group: Luminaries

ULR-TC510020000001360F

PART C- TEST RESULT

TESTREPORT NO.:HPLI/Test/2009034901

S. No.	TESTS WITH CLAUSE REFERENCE		SPECIFIED REQUIREMENTS	RESULTS
1.	Photometric Results (IES LM-79-08)	i)	Total luminous flux	22955 lm
		ii)	Luminous efficacy	152.69 lm/W
		iii)	Luminous intensity	13324 cd
		iv)	Luminous intensity distribution	Graph Attached
		v)	Chromaticity Co-ordinates	x = 0.3177 y = 0.3431
		vi)	Correlated Colour Temperature	6168K
		vii)	Rendering Index (Ra)	70.5
2.	Electrical Results (IES LM-79-08)	i)	Input Power	150.33 W
		ii)	Test Voltage	230 VAC
		iii)	Input Current	0.660 A
		iv)	Power Factor	0.98
		v)	Input Frequency	50 Hz
3.	Additional Parameters	i)	Stabilization Time	120 minutes
		ii)	Photometric Method Used	C- type Goniophotometer


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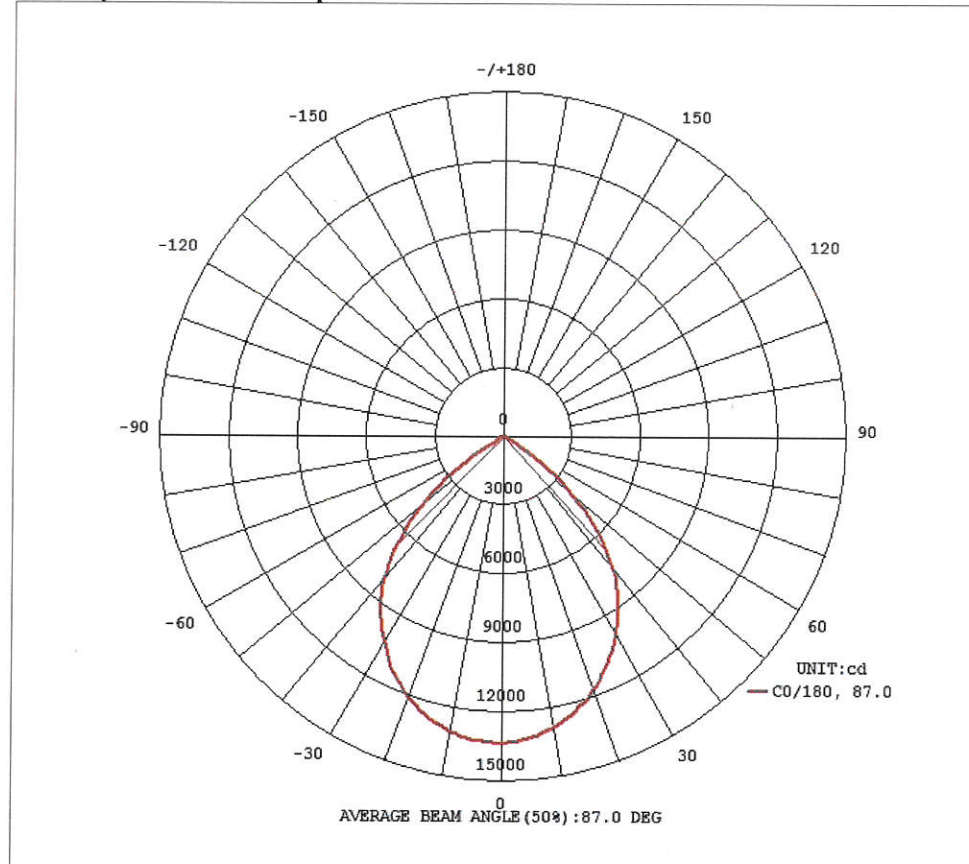
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PART C-TEST RESULT

TEST REPORT NO.:HPLI/Test/2009034901

Intensity distribution Graph at C0-C180:



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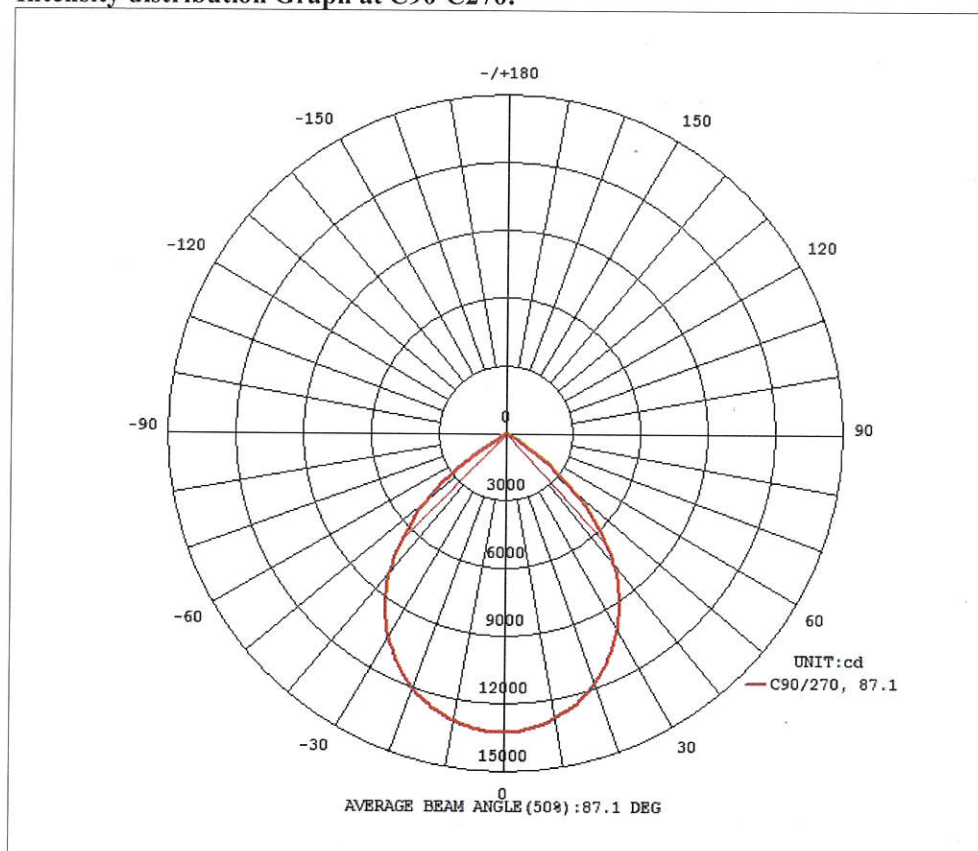
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PART C-TEST RESULT

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TEST REPORT NO.:HPLI/Test/2009034901

Intensity distribution Graph at C90-C270:



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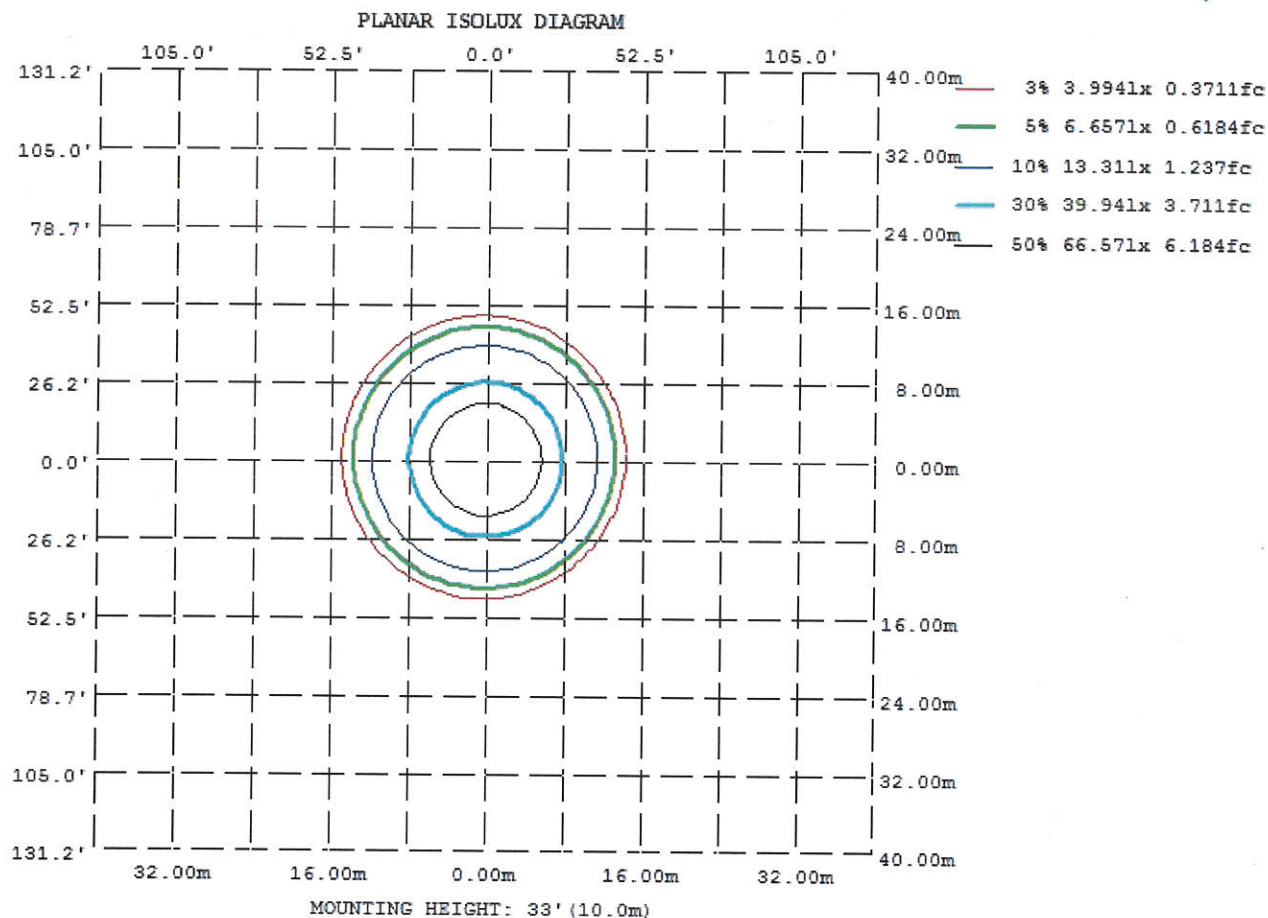
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PART C- TEST RESULT

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TEST REPORT NO.:HPLI/Test/2009034901

PLANAR ISOLUX DIAGRAM:



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PART C- TEST RESULT

Zonal Lumen Tabulation:

ULR-TC510020000001360F
TEST REPORT NO.:HPLI/Test/2009034901

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1282	1279	1280	1284	1302	1300	1295	1283	0- 10	1246	1246	5.43,5.43
20	1169	1164	1172	1180	1207	1211	1204	1180	10- 20	3504	4750	20.7,20.7
30	988.5	988.3	996.2	1011	1037	1047	1040	1014	20- 30	5088	9838	42.9,42.9
40	744.1	744.8	747.3	775.5	808.2	825.2	810.0	783.8	30- 40	5645	15483	67.4,67.4
50	399.2	387.0	398.7	440.1	477.4	507.6	479.5	446.6	40- 50	4744	20227	88.1,88.1
60	60.94	58.27	59.62	65.26	94.37	97.49	92.05	74.31	50- 60	2133	22360	97.4,97.4
70	22.63	24.22	21.39	27.32	28.15	30.39	26.54	27.09	60- 70	402.8	22763	99.2,99.2
80	4.242	3.491	1.729	4.901	5.920	7.658	4.096	5.322	70- 80	152.7	22915	99.8,99.8
90	0.0353	0.0378	0.0324	0.0330	0.0435	0.0376	0.0463	0.0416	80- 90	12.25	22928	99.9,99.9
100	0.2625	0.2317	0.0635	0.1597	0.1431	0.1226	0.0853	0.1511	90-100	0.6803	22928	99.9,99.9
110	0.4618	0.4234	0.4719	0.3877	0.4898	0.4444	0.6039	0.4489	100-110	3.440	22932	99.9,99.9
120	3.878	2.056	3.835	1.015	0.4871	0.4884	0.5692	0.3923	110-120	6.021	22938	99.9,99.9
130	0.4446	0.4834	0.2616	0.3732	0.4421	0.4712	0.2886	0.3736	120-130	8.416	22946	100,100
140	0.4354	0.4591	0.1373	0.3582	0.4410	0.4733	0.1099	0.3652	130-140	2.943	22949	100,100
150	0.3752	0.3567	0.2955	0.2878	0.4185	0.3601	0.3254	0.3157	140-150	2.346	22951	100,100
160	0.3232	0.3540	0.2749	0.3326	0.4251	0.3618	0.4142	0.3582	150-160	1.652	22953	100,100
170	0.2112	0.2786	0.1974	0.2882	1.747	1.776	1.526	1.180	160-170	1.595	22955	100,100
180	0.1597	0.1328	0.0877	0.1224	0.1450	0.1291	0.1379	0.1161	170-180	0.4471	22955	100,100
DEG	LUMINOUS INTENSITY: $\dot{A}10cd$									UNIT:lm		

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PART C- TEST RESULT

ULR-TC510020000001360F
TEST REPORT NO.:HPLI/Test/2009034901

Intensity data (cd):

C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
Y (DEG)	1331	1329	1331	1328	1324	1325	1324	1324	1321	1323	1322	1322	1331	1329	1331	1328	1324	1325	1324
5	1314	1314	1312	1313	1309	1310	1310	1309	1309	1312	1312	1315	1326	1326	1326	1323	1319	1321	1318
10	1282	1280	1278	1279	1278	1276	1280	1281	1284	1284	1285	1285	1302	1304	1303	1300	1299	1296	1295
15	1234	1231	1231	1230	1230	1232	1236	1239	1237	1240	1244	1248	1262	1262	1263	1262	1260	1259	1256
20	1169	1164	1165	1164	1166	1168	1172	1177	1176	1180	1185	1189	1207	1210	1209	1211	1208	1206	1204
25	1085	1082	1083	1082	1085	1088	1093	1096	1099	1105	1106	1112	1131	1132	1136	1135	1135	1135	1131
30	989	987	987	988	989	991	996	1000	1006	1011	1016	1018	1037	1042	1045	1047	1047	1045	1040
35	879	877	878	876	876	880	884	889	895	903	910	912	931	937	941	943	945	941	933
40	744	742	744	745	742	742	747	756	766	775	784	788	808	813	821	825	824	818	810
45	580	573	580	582	576	572	580	588	606	625	634	634	652	662	677	683	677	660	647
50	399	389	386	387	385	390	399	406	420	440	451	457	477	488	500	508	498	489	479
55	200	189	180	173	178	183	192	199	211	224	243	259	277	287	292	293	293	288	279
60	60.9	61.5	60.0	58.3	57.5	56.1	59.6	60.7	60.2	65.3	72.3	80.0	94.4	97.7	99.4	97.5	96.5	94.0	92.0
65	36.1	34.5	35.6	35.9	35.3	33.6	35.3	33.8	35.9	37.3	38.1	38.0	41.2	40.0	41.5	41.0	39.7	37.8	39.7
70	22.6	22.9	24.1	24.2	24.3	22.6	21.4	22.9	25.5	27.3	28.2	28.4	28.2	28.7	30.2	30.4	29.1	27.2	26.5
75	11.3	11.5	12.7	12.4	11.8	9.92	9.13	10.3	13.7	14.9	15.7	15.2	15.1	16.3	18.6	18.4	18.6	16.0	14.2
80	4.24	3.78	3.91	3.49	2.45	1.77	1.73	2.04	3.46	4.90	5.85	5.58	5.92	6.27	7.49	7.66	6.49	4.73	4.10
85	0.52	0.49	0.35	0.17	0.06	0.05	0.04	0.04	0.11	0.36	0.63	0.75	1.17	1.30	1.51	1.30	0.66	0.54	0.42
90	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05
95	0.05	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.05	0.04	0.04	0.04	0.06	0.05	0.05	0.05	0.06	0.05	0.06
100	0.26	0.30	0.26	0.23	0.13	0.07	0.06	0.06	0.11	0.16	0.15	0.14	0.14	0.14	0.12	0.12	0.10	0.08	0.09
105	0.42	0.46	0.40	0.37	0.35	0.20	0.32	0.16	0.32	0.34	0.34	0.37	0.44	0.46	0.39	0.36	0.39	0.25	0.38
110	0.46	0.49	0.45	0.42	0.42	0.23	0.47	0.20	0.39	0.39	0.39	0.42	0.49	0.52	0.47	0.44	0.50	0.32	0.60
115	0.46	0.50	0.48	0.46	0.46	0.24	0.50	0.23	0.43	0.40	0.40	0.44	0.51	0.53	0.50	0.48	0.52	0.33	0.62
120	3.88	4.21	4.28	2.06	1.03	3.97	3.84	3.91	1.34	1.02	2.68	2.74	0.49	0.50	0.49	0.49	0.51	0.31	0.57
125	3.69	1.13	1.12	0.77	0.61	0.77	0.95	1.07	0.47	0.74	2.86	2.95	0.45	0.47	0.47	0.47	0.48	0.25	0.31
130	0.44	0.50	0.50	0.48	0.46	0.41	0.26	0.39	0.38	0.37	0.37	0.40	0.44	0.47	0.47	0.47	0.47	0.41	0.29
135	0.45	0.49	0.50	0.48	0.38	0.41	0.26	0.38	0.29	0.36	0.37	0.40	0.44	0.46	0.46	0.47	0.44	0.44	0.27
140	0.44	0.47	0.48	0.46	0.31	0.19	0.14	0.15	0.25	0.36	0.36	0.39	0.44	0.47	0.47	0.47	0.31	0.10	0.11
145	0.40	0.44	0.45	0.39	0.37	0.38	0.29	0.36	0.31	0.31	0.36	0.38	0.44	0.46	0.46	0.44	0.34	0.42	0.32
150	0.38	0.40	0.39	0.36	0.39	0.41	0.30	0.36	0.34	0.29	0.33	0.36	0.42	0.44	0.44	0.36	0.41	0.40	0.33
155	0.32	0.35	0.36	0.39	0.30	0.39	0.29	0.36	0.31	0.33	0.29	0.32	0.39	0.41	0.38	0.37	0.42	0.39	0.33
160	0.32	0.37	0.38	0.35	0.29	0.35	0.27	0.32	0.28	0.33	0.33	0.32	0.43	0.43	0.45	0.36	0.42	0.40	0.41
165	0.29	0.32	0.24	0.27	0.31	0.27	0.24	0.27	0.30	0.25	0.30	0.33	0.82	0.83	0.92	0.78	0.53	0.64	0.85
170	0.21	0.24	0.30	0.28	0.24	0.21	0.20	0.23	0.27	0.29	0.24	0.23	1.75	1.71	1.79	1.78	1.04	1.02	1.53
175	0.24	0.21	0.21	0.20	0.18	0.19	0.19	0.20	0.21	0.22	0.25	0.25	0.50	0.51	0.53	0.53	0.47	0.46	0.43
180	0.16	0.15	0.15	0.13	0.10	0.06	0.09	0.01	0.06	0.12	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.14

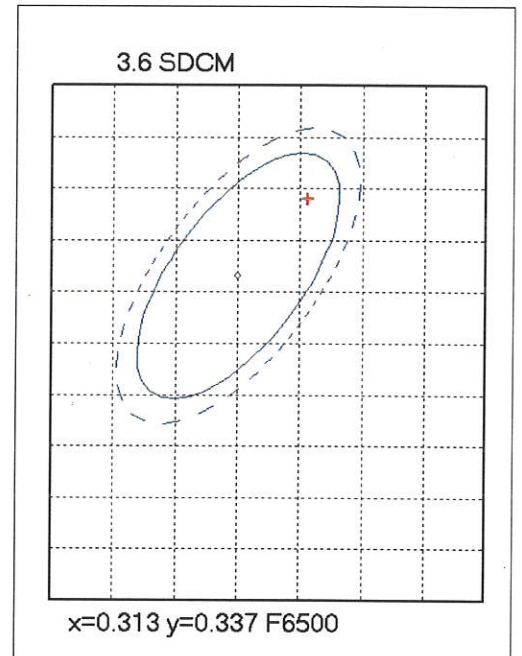
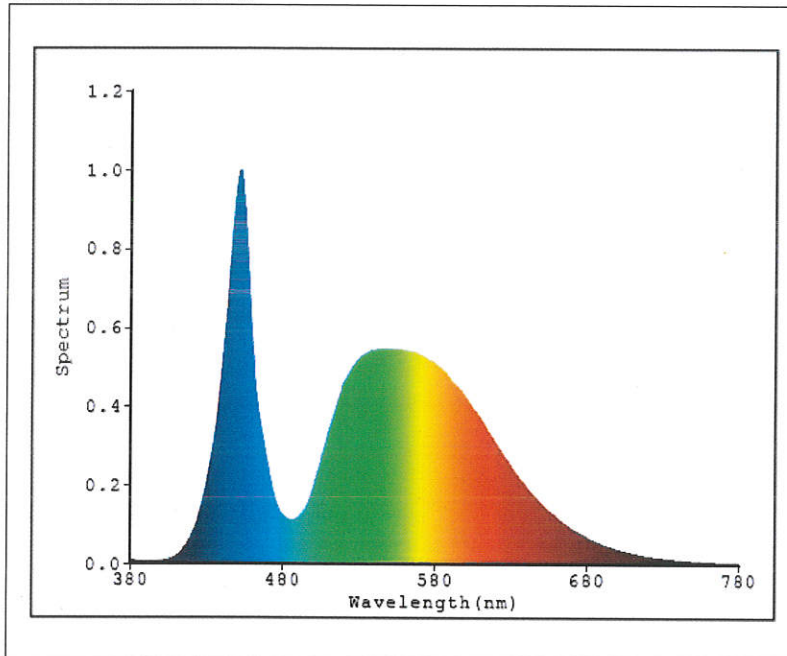
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PART C- TEST RESULT

Color Parameters:



Color Parameters:

Chromaticity Coordinate (Avg.): $x=0.3177$ $y=0.3431$ $u'=0.1961$ $v'=0.4764$ $duv=0.0093$

$T_c=6168K$ Dominant WL: $L_d=509.3nm$ Purity=3.9%

Ratio: $R=11.9\%$ $G=84.6\%$ $B=3.5\%$ Peak WL: $L_p=451.2nm$ HWL: 20.5nm

Render Index: $R_a=70.5$

$R_1=66$ $R_2=74$ $R_3=80$ $R_4=70$ $R_5=67$ $R_6=66$ $R_7=81$

$R_8=55$ $R_9=-47$ $R_{10}=38$ $R_{11}=67$ $R_{12}=38$ $R_{13}=67$ $R_{14}=89$ $R_{15}=59$

Status: $T=540.00ms$ $I_p=57695$ (88%) [HAAS-2000 (CAN)]

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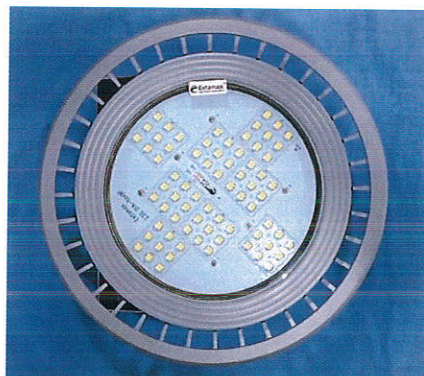
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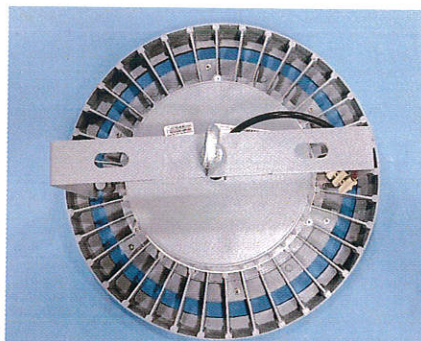
PART C- TEST RESULT

Photographs:

ULR-TC510020000001360F
TEST REPORT NO.:HPLI/Test/2009034901



FRONT VIEW



REAR VIEW

Eetamax®	
ENERGY EFFICIENT LIGHTING SYSTEMS	
ITEM	: ML HB ROUND
WATTAGE	: 150W / With Lens
VOLTAGE	: 230v , AC, 50Hz
MODEL	: EELS 150W RND ML HB HL
LOT NO.	: E1702008
www.eetamax.com	

MARKING

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 and specification given by the customer.

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

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Page No.09 of 09

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[Signature]
Approved by
Satish Zutshi
(Vice President - Lighting Division)

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