

LM-79-08 Test Report

For

ESPEN TECHNOLOGY INC

12257 FLORENCE AVE SANTA FE SPRINGS, CA 90670 USA

LED Tube

Model Name(s):

L36T8/8XX/12P-ID- DE RF

Representative (Tested) Model:

L36T8/850/12P-ID DE RF

Model Difference:

1. XX represents CCT, can be 30 for 3000K, 35 for 3500K, 40 for 4000K and 50 for 5000K;
2. All is the same construction, except CCT.

Prepare by:



Engineer: Alan Wang

Date: 2021-02-02

Review by:



Technical Lead: Vincent Yuan

Issue Date: 2021-04-29

Revised Date: N/A

Note:

1. The results contained in this report pertain only to the tested samples.
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3. This report does not imply product certification, approval, or endorsement by NVLAP, or any agency of the Federal Government.

Laboratory: Dongguan New Testing Centre Co., Ltd

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Tel: 86-769-22212079

Website: <http://www.ntc-cert.com>

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Client Information:

Applicant Name:	ESPEN TECHNOLOGY INC
Brand Name:	ESPEN

Product Information:

Model Number:	L36T8/850/12P-ID DE RF
Product Type:	3' T8 Lamp, Internal Driver/Line Voltage (UL Type B) Lamps
Rating Input:	100-277Vac, 50/60Hz, 12W
Declared CCT:	5000K
Declared Light Output:	1400 lm
Declared Beam Angle:	180°
LED Manufacturer:	Shenzhen JuFei Optoelectronics Co., Ltd.
LED Model:	2835 3V 0.5W WhiteSMD LED
LED Quantity:	84 pcs

Test Information:

Standard Lamp:	Total Spectral Radiant Flux Standard Lamp, trace to NIST. 1. D908S for Gonio 2. D215S for Integrating Sphere
Date of Receipt Samples:	2020-12-12
Quantity of Receipt Samples:	1 pc
Sample Number:	201212008-S1

Laboratory Information:

Test Laboratory:	Dongguan New Testing Centre Co., Ltd
Laboratory Address:	3F, No. 1 the 1 st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China
Laboratory Contact Name:	Neil Zhong
Laboratory Contact E-mail:	Neil_zhong@ntc-cert.com

Report Information:

Issued Date of Test Report:	2021-04-29
Revised Date of Test Report:	N/A
Test Report No.:	NTCLR21010185
Remark (If applicable):	N/A

Test Specification:	
Date of Test	2020-12-18
Test Item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Fidelity Index 8. Gamut Index 9. Local Chroma Shift 10. THD and PF
Reference Standard	IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products ANSI C78.377-2017 Specifications for the Chromaticity of Solid State Lighting Products CIE 13.3-1995 Method of Measuring and Specifying Color Rendering Properties of Light Sources CIE 15-2004 Technical Report Colorimetry ANSI IES TM-30-18 IES Method for Evaluating Light Source Color Rendition ANSI C78.77-10-2014 Harmonic Emission Limits – Related Power Quality Requirements

Test Methods:
1. Photometric and Electrical Measurements – Light Distribution Method: Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at 25 °C ± 1°C, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at required Voltage and Frequency. It was stabilized before measurement was made. Luminous Flux, Luminaire Efficacy and Zonal Lumen were calculated from the software taken at 1° vertical intervals and 15° horizontal intervals.
2. Photometric and Electrical Measurements – Integrating Sphere Method: Photometric parameters were measured using an integrating sphere, as spectroradiometer and software. The ambient temperature condition inside the sphere was measured at 25 °C ± 1°C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at require Voltage and Frequency. It was stabilized before measurement was made. Chromaticity Coordinates, Correlated Color Temperature and Color Rendering Index were calculated from the spectral radiant flux measurements taken at least 1 nm intervals over the rage of 380 to 780 nm.
3. THD and PF Measurements: The sample was tested according to the ANSI C82.77-10-2014, the sample was operated at requirement Voltage and Frequency, and was stabilized before measurement. The Total Harmonic Distortion was calculated from the Digital Power Meter.

Integrating Sphere Test Results:

Test Condition:

Test Ambient (°C)	Test Humidity (%)	Orientation	Stabilization Time (minute)	Test Time (minute)
25.4	41.0	Face Down	90	10

Electrical Data:

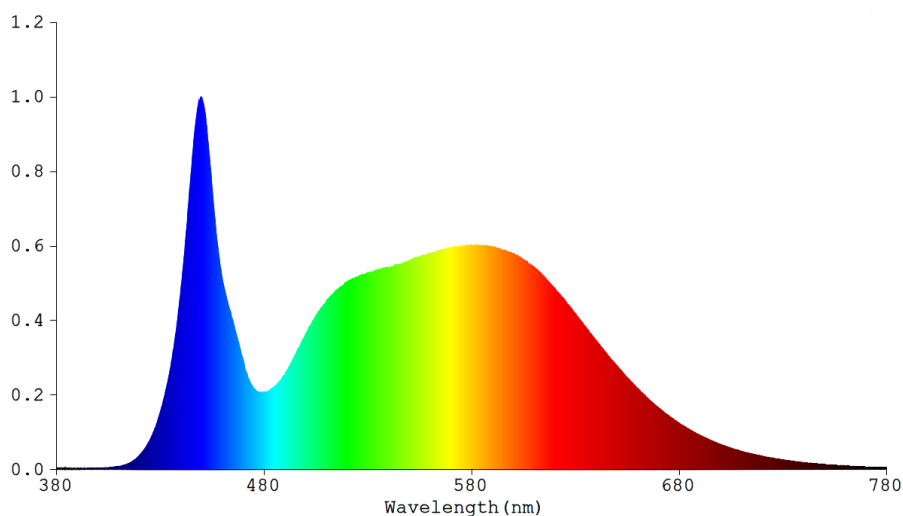
Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor
120.0	60	0.0921	10.87	0.9788

Color Data:

Parameter	Result
CCT(K)	4969
R _a	82.1
R _f	83
R _g	97
R _{cs, hl}	-12%
Chromaticity, (x, y)	(0.3466, 0.3582)
Chromaticity, (u', v')	(0.2099, 0.4880)
Duv	0.0027

Special Color Rendering			
R1	80	R9	6
R2	87	R10	68
R3	91	R11	81
R4	82	R12	57
R5	80	R13	82
R6	81	R14	95
R7	88	R15	75
R8	67	-	-

Spectrum Diagram:



IES TM-30-18 Color Rendition Result:

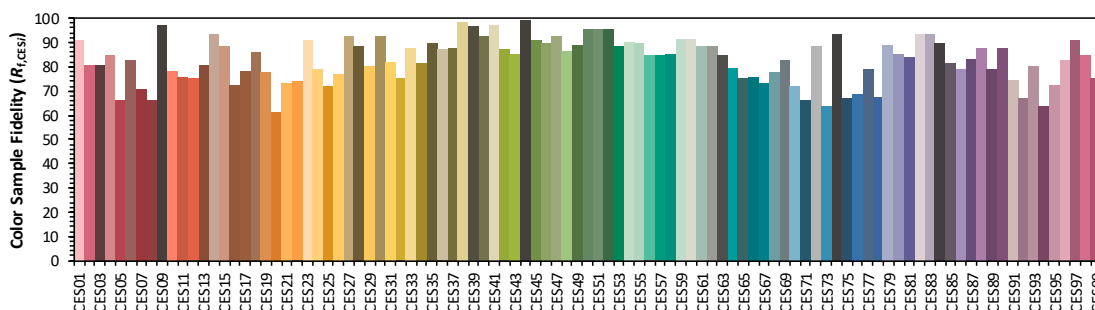
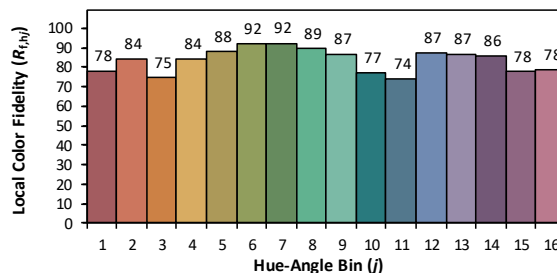
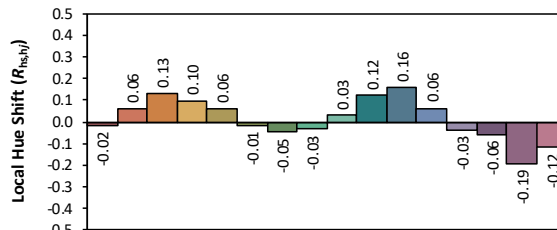
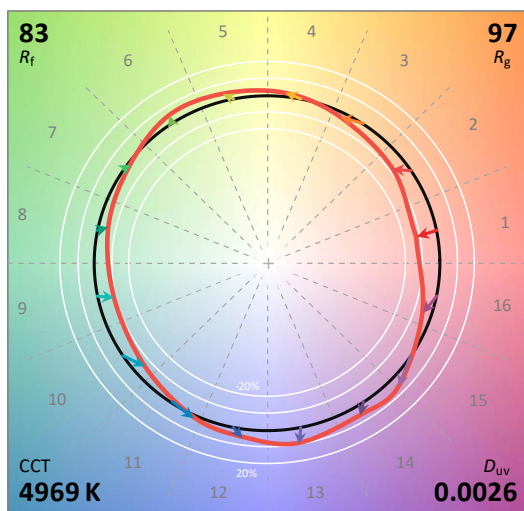
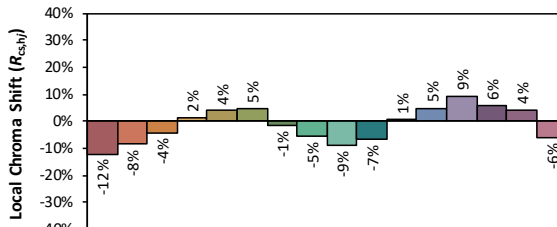
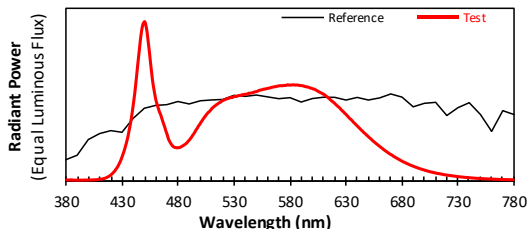
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Date: 2021/2/2

Manufacturer: ESPEN TECHNOLOGY INC

Model: L36T8/850/12P-ID DE RF



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3465
 y 0.3580
 u' 0.2099
 v' 0.4880

CIE 13.3-1995
(CRI)
 R_a 82
 R_9 6

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

Spectrum Data:

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0049	447	0.9368	514	0.4768	581	0.6006	648	0.2908	715	0.0420
381	0.0043	448	0.9750	515	0.4813	582	0.6022	649	0.2842	716	0.0408
382	0.0043	449	0.9930	516	0.4868	583	0.6021	650	0.2780	717	0.0394
383	0.0037	450	0.9986	517	0.4906	584	0.6017	651	0.2708	718	0.0378
384	0.0056	451	0.9741	518	0.4943	585	0.6006	652	0.2658	719	0.0367
385	0.0035	452	0.9337	519	0.5015	586	0.6013	653	0.2587	720	0.0357
386	0.0036	453	0.8737	520	0.5036	587	0.6008	654	0.2519	721	0.0343
387	0.0031	454	0.8139	521	0.5076	588	0.5992	655	0.2459	722	0.0335
388	0.0034	455	0.7476	522	0.5101	589	0.5984	656	0.2403	723	0.0326
389	0.0029	456	0.6845	523	0.5133	590	0.5979	657	0.2341	724	0.0317
390	0.0034	457	0.6245	524	0.5159	591	0.5966	658	0.2287	725	0.0306
391	0.0021	458	0.5803	525	0.5173	592	0.5953	659	0.2227	726	0.0297
392	0.0036	459	0.5395	526	0.5210	593	0.5927	660	0.2176	727	0.0287
393	0.0032	460	0.5044	527	0.5233	594	0.5912	661	0.2115	728	0.0279
394	0.0028	461	0.4797	528	0.5219	595	0.5890	662	0.2063	729	0.0267
395	0.0035	462	0.4564	529	0.5255	596	0.5887	663	0.2011	730	0.0261
396	0.0039	463	0.4339	530	0.5288	597	0.5861	664	0.1949	731	0.0251
397	0.0037	464	0.4176	531	0.5290	598	0.5829	665	0.1900	732	0.0242
398	0.0038	465	0.3964	532	0.5295	599	0.5815	666	0.1847	733	0.0235
399	0.0038	466	0.3738	533	0.5315	600	0.5789	667	0.1802	734	0.0229
400	0.0041	467	0.3533	534	0.5349	601	0.5757	668	0.1746	735	0.0220
401	0.0043	468	0.3323	535	0.5356	602	0.5747	669	0.1700	736	0.0213
402	0.0044	469	0.3087	536	0.5354	603	0.5706	670	0.1654	737	0.0206
403	0.0046	470	0.2904	537	0.5407	604	0.5666	671	0.1622	738	0.0199
404	0.0051	471	0.2646	538	0.5395	605	0.5623	672	0.1572	739	0.0195
405	0.0054	472	0.2495	539	0.5423	606	0.5584	673	0.1518	740	0.0188
406	0.0058	473	0.2364	540	0.5431	607	0.5546	674	0.1479	741	0.0182
407	0.0062	474	0.2261	541	0.5437	608	0.5514	675	0.1440	742	0.0177
408	0.0072	475	0.2174	542	0.5452	609	0.5475	676	0.1399	743	0.0171
409	0.0081	476	0.2115	543	0.5495	610	0.5435	677	0.1359	744	0.0166
410	0.0088	477	0.2085	544	0.5494	611	0.5390	678	0.1319	745	0.0159
411	0.0094	478	0.2077	545	0.5510	612	0.5337	679	0.1278	746	0.0155
412	0.0111	479	0.2060	546	0.5524	613	0.5284	680	0.1239	747	0.0150
413	0.0128	480	0.2077	547	0.5536	614	0.5221	681	0.1200	748	0.0145
414	0.0146	481	0.2075	548	0.5571	615	0.5167	682	0.1170	749	0.0143
415	0.0171	482	0.2110	549	0.5588	616	0.5097	683	0.1138	750	0.0136
416	0.0203	483	0.2149	550	0.5599	617	0.5032	684	0.1101	751	0.0131
417	0.0241	484	0.2189	551	0.5627	618	0.4980	685	0.1067	752	0.0130
418	0.0277	485	0.2236	552	0.5656	619	0.4922	686	0.1039	753	0.0125
419	0.0330	486	0.2279	553	0.5688	620	0.4865	687	0.1003	754	0.0121
420	0.0388	487	0.2337	554	0.5701	621	0.4786	688	0.0973	755	0.0117
421	0.0453	488	0.2405	555	0.5714	622	0.4729	689	0.0946	756	0.0113
422	0.0526	489	0.2496	556	0.5746	623	0.4657	690	0.0919	757	0.0111
423	0.0607	490	0.2562	557	0.5752	624	0.4604	691	0.0892	758	0.0107
424	0.0706	491	0.2661	558	0.5767	625	0.4534	692	0.0862	759	0.0106
425	0.0802	492	0.2756	559	0.5782	626	0.4445	693	0.0837	760	0.0101
426	0.0921	493	0.2865	560	0.5796	627	0.4386	694	0.0812	761	0.0100
427	0.1058	494	0.2962	561	0.5817	628	0.4320	695	0.0786	762	0.0095
428	0.1203	495	0.3080	562	0.5827	629	0.4240	696	0.0761	763	0.0092
429	0.1381	496	0.3203	563	0.5855	630	0.4180	697	0.0740	764	0.0090
430	0.1575	497	0.3302	564	0.5869	631	0.4101	698	0.0716	765	0.0086
431	0.1774	498	0.3432	565	0.5884	632	0.4027	699	0.0694	766	0.0083
432	0.2001	499	0.3520	566	0.5907	633	0.3949	700	0.0674	767	0.0081
433	0.2248	500	0.3637	567	0.5904	634	0.3881	701	0.0649	768	0.0081
434	0.2519	501	0.3739	568	0.5929	635	0.3822	702	0.0632	769	0.0077
435	0.2814	502	0.3848	569	0.5943	636	0.3747	703	0.0608	770	0.0074
436	0.3185	503	0.3948	570	0.5958	637	0.3661	704	0.0590	771	0.0072
437	0.3544	504	0.4042	571	0.5971	638	0.3601	705	0.0570	772	0.0069
438	0.3967	505	0.4137	572	0.5969	639	0.3525	706	0.0552	773	0.0066
439	0.4445	506	0.4223	573	0.5967	640	0.3458	707	0.0536	774	0.0066
440	0.4968	507	0.4307	574	0.5973	641	0.3386	708	0.0521	775	0.0063
441	0.5513	508	0.4357	575	0.5992	642	0.3316	709	0.0504	776	0.0062
442	0.6163	509	0.4436	576	0.5978	643	0.3246	710	0.0489	777	0.0061
443	0.6844	510	0.4534	577	0.6007	644	0.3171	711	0.0472	778	0.0057
444	0.7532	511	0.4594	578	0.6025	645	0.3112	712	0.0455	779	0.0059
445	0.8174	512	0.4659	579	0.6002	646	0.3034	713	0.0445	780	0.0059
446	0.8829	513	0.4706	580	0.6015	647	0.2974	714	0.0436	N/A	N/A

Goniophotometer Test Results:

Test Condition:

Test Ambient (°C)	Test Humidity (%)	Orientation	Stabilization Time (minute)	Test Time (minute)
24.3	48.9	Face Down	90	25

Electrical Data:

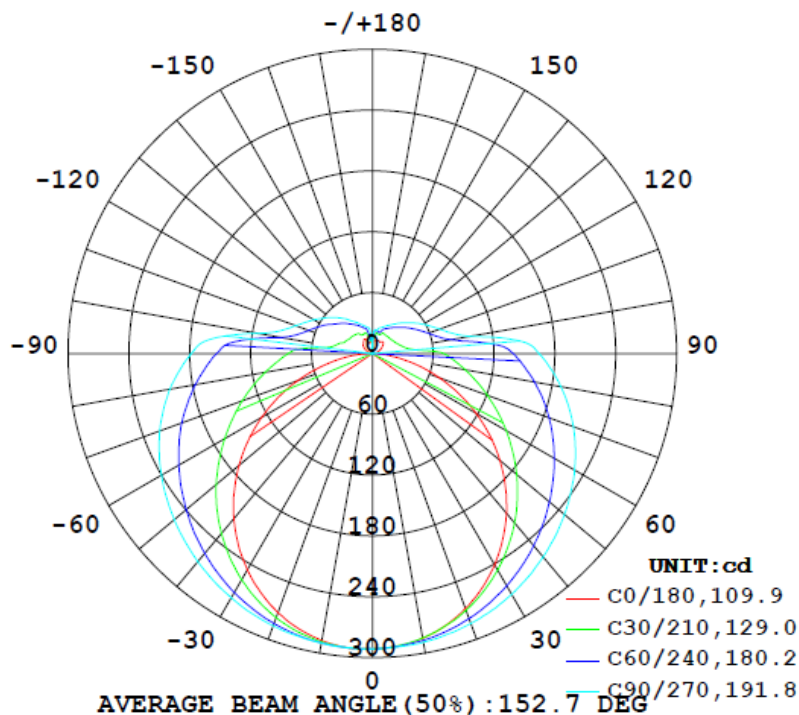
Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor
120.0	60	0.0921	10.87	0.9788

Goniophotometer Data:

Parameter	Results
Total Luminous (lm)	1460.0
Luminous Efficacy (lm/w)	134.31
Zonal Lumens Distribution (0-60°)	50.7%
Beam Angle (°)	191.8

Luminous Intensity Distribution Diagram:

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

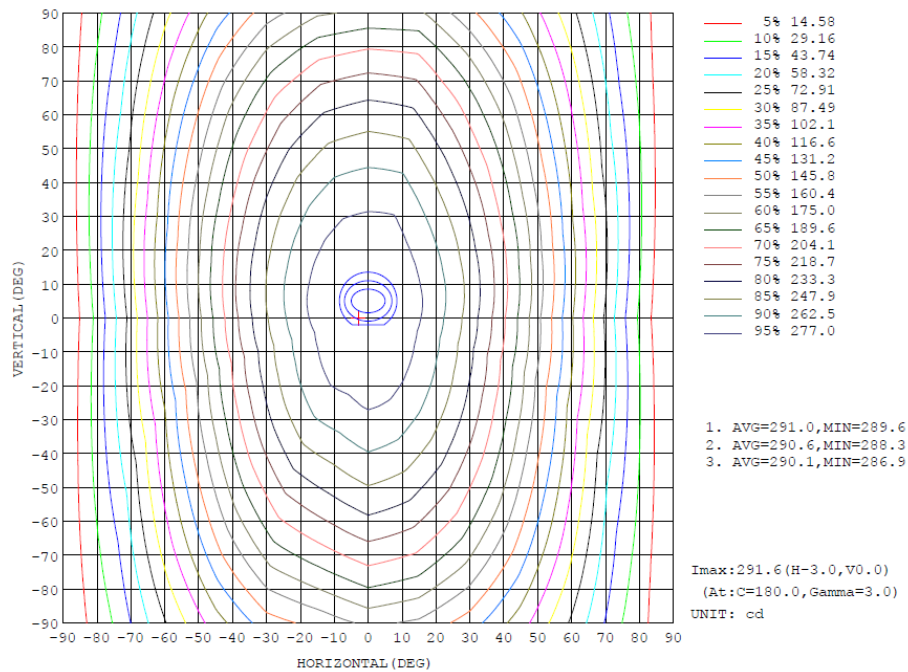


Zonal Flux Diagram:

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total	%lum,lamp
10	285.3	286.2	289.1	287.3	287.5	289.4	290.1	287.8	0- 10	27.64	27.64	1.89,1.89
20	267.8	273.8	283.5	276.4	272.0	280.4	285.8	277.4	10- 20	80.06	107.7	7.38,7.38
30	241.0	255.8	274.3	259.2	246.5	265.3	278.2	260.8	20- 30	124.3	232.0	15.9,15.9
40	205.6	233.1	262.1	237.0	212.7	245.0	267.8	239.5	30- 40	156.3	388.3	26.6,26.6
50	164.1	208.0	247.0	211.9	171.6	221.6	255.0	215.2	40- 50	174.0	562.3	38.5,38.5
60	118.3	181.9	230.1	185.6	126.3	196.5	240.3	189.5	50- 60	177.3	739.6	50.7,50.7
70	70.40	156.6	210.9	159.6	78.44	171.5	223.2	165.0	60- 70	168.0	907.6	62.2,62.2
80	26.83	132.0	188.7	134.1	39.41	146.7	202.8	140.8	70- 80	149.1	1057	72.4,72.4
90	0.4914	108.9	164.1	110.1	1.011	123.0	178.6	117.8	80- 90	125.2	1182	81,81
100	3.025	57.37	97.51	56.82	2.258	67.29	114.9	64.86	90-100	90.92	1273	87.2,87.2
110	6.570	43.29	70.53	44.28	5.026	51.43	80.48	48.80	100-110	53.01	1326	90.8,90.8
120	10.24	36.14	57.80	37.32	8.558	41.24	66.59	41.11	110-120	40.71	1367	93.6,93.6
130	13.82	31.17	47.40	32.40	11.89	36.76	55.25	35.51	120-130	32.00	1399	95.8,95.8
140	15.19	27.65	38.87	28.93	13.93	32.25	45.43	31.29	130-140	24.45	1423	97.5,97.5
150	13.81	25.20	32.17	26.56	16.30	28.39	36.45	28.01	140-150	17.65	1441	98.7,98.7
160	14.46	21.21	27.58	24.70	12.39	24.83	30.27	21.85	150-160	11.50	1452	99.5,99.5
170	13.14	23.50	23.48	16.81	11.17	15.30	26.22	25.38	160-170	6.130	1458	99.9,99.9
180	0.0000	0.0000	0.0000	0	5.286	5.286	5.286	5.286	170-180	1.644	1460	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Isocandela Diagram:



Luminous Distribution Intensity Data:

Table--1

UNIT: cd

C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
y (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291
5	290	290	289	290	290	290	291	290	290	290	290	291	291	291	291	291	291	291	291
10	285	285	285	286	287	289	289	288	288	287	286	286	288	288	289	289	290	290	290
15	278	277	278	281	283	286	287	285	285	283	280	279	281	283	284	286	287	288	288
20	268	267	270	274	278	282	284	280	280	276	272	270	272	275	277	280	283	285	286
25	255	255	259	265	272	277	279	275	274	269	262	258	260	264	268	274	278	282	283
30	241	240	247	256	265	271	274	269	267	259	251	245	247	252	258	265	272	277	278
35	224	224	233	245	256	265	268	262	259	249	237	229	231	237	245	256	265	272	273
40	206	207	218	233	247	258	262	255	250	237	223	212	213	221	232	245	257	266	268
45	185	187	202	221	238	250	255	246	241	225	207	193	193	203	217	234	249	259	262
50	164	167	186	208	228	242	247	238	231	212	191	173	172	184	201	222	240	252	255
55	142	147	169	195	218	233	239	229	220	199	174	153	149	164	185	209	230	244	248
60	118	126	152	182	207	224	230	219	210	186	157	132	126	143	168	197	220	236	240
65	94.3	105	136	169	196	214	221	209	199	173	141	110	103	122	152	184	210	227	232
70	70.4	84.6	121	157	185	204	211	199	187	160	125	90.0	78.4	102	137	172	200	218	223
75	47.5	65.8	106	144	174	193	200	187	176	147	110	70.5	55.0	81.9	122	159	189	208	213
80	26.8	50.2	93.0	132	162	182	189	176	164	134	95.8	53.8	33.4	64.2	107	147	177	197	203
85	9.73	37.9	81.1	120	151	170	177	163	152	122	83.0	40.2	14.9	49.3	94.3	134	166	185	191
90	0.49	28.9	70.5	109	139	158	164	151	140	110	71.9	30.1	1.01	37.8	83.0	123	154	173	179
95	1.63	16.2	42.9	82.6	116	137	145	112	118	86.9	45.1	15.9	1.10	24.3	63.3	105	136	155	161
100	3.03	14.0	33.3	67.4	79.1	92.6	97.5	81.2	78.3	56.8	33.6	12.9	2.26	15.9	40.1	67.3	91.8	109	115
105	4.78	13.5	29.6	48.8	66.0	76.3	79.8	70.3	64.9	49.0	30.2	12.6	3.61	15.3	35.7	56.9	74.9	86.6	90.6
110	6.57	13.8	27.2	43.3	58.8	67.7	70.5	63.3	58.1	44.3	27.8	13.0	5.03	15.3	31.1	51.4	66.9	77.0	80.5
115	8.40	14.5	25.5	39.3	53.1	61.1	63.8	57.4	52.7	40.5	26.2	13.8	6.68	15.4	29.2	46.9	60.9	70.0	73.0
120	10.2	15.4	24.3	36.1	48.3	55.4	57.8	52.1	47.9	37.3	25.1	14.8	8.56	16.0	27.8	41.2	55.8	63.9	66.6
125	12.1	16.5	23.5	33.4	44.0	50.1	52.4	47.3	43.8	34.7	24.3	15.8	10.3	16.8	26.7	39.2	50.4	58.3	60.7
130	13.8	17.6	22.9	31.2	40.3	45.5	47.4	42.9	40.1	32.4	23.8	16.4	11.9	17.6	26.3	36.8	45.8	53.1	55.2
135	15.4	18.6	22.6	29.3	36.8	41.3	42.9	39.1	36.7	30.5	23.5	16.9	13.0	17.8	25.6	34.3	42.1	47.6	50.1
140	15.2	19.6	22.5	27.7	33.7	37.5	38.9	35.6	33.9	28.9	23.3	16.7	13.9	19.8	24.9	32.2	38.6	42.9	45.4
145	13.9	20.2	22.4	26.3	31.0	34.2	35.3	32.6	31.4	27.6	22.5	17.6	15.1	20.6	24.2	30.5	35.4	39.0	40.6
150	13.8	20.9	22.7	25.2	28.6	31.4	32.2	30.1	29.3	26.6	20.6	17.5	16.3	19.2	21.1	28.4	32.6	35.3	36.4
155	14.1	19.6	21.7	22.4	26.6	29.0	29.6	28.0	27.6	25.8	21.6	18.4	15.2	18.1	20.8	26.3	30.0	32.1	33.2
160	14.5	19.3	20.0	21.2	22.4	26.3	27.6	26.5	26.3	24.7	22.2	19.7	12.4	17.4	21.5	24.8	27.5	29.5	30.3
165	13.5	15.6	20.4	20.9	22.4	24.7	26.1	23.2	23.9	22.7	20.1	15.9	10.9	13.2	19.0	23.2	25.7	27.0	28.0
170	13.1	14.4	19.4	23.5	23.6	23.5	23.5	23.1	22.8	16.8	13.2	12.8	11.2	11.8	13.7	15.3	18.1	24.2	26.2
175	12.2	12.9	14.8	17.4	20.4	22.4	22.5	13.8	12.0	13.5	15.1	15.1	14.0	12.7	12.2	13.4	14.9	14.4	18.4
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	5.29	5.29	5.29	5.29

Table--2

UNIT: cd

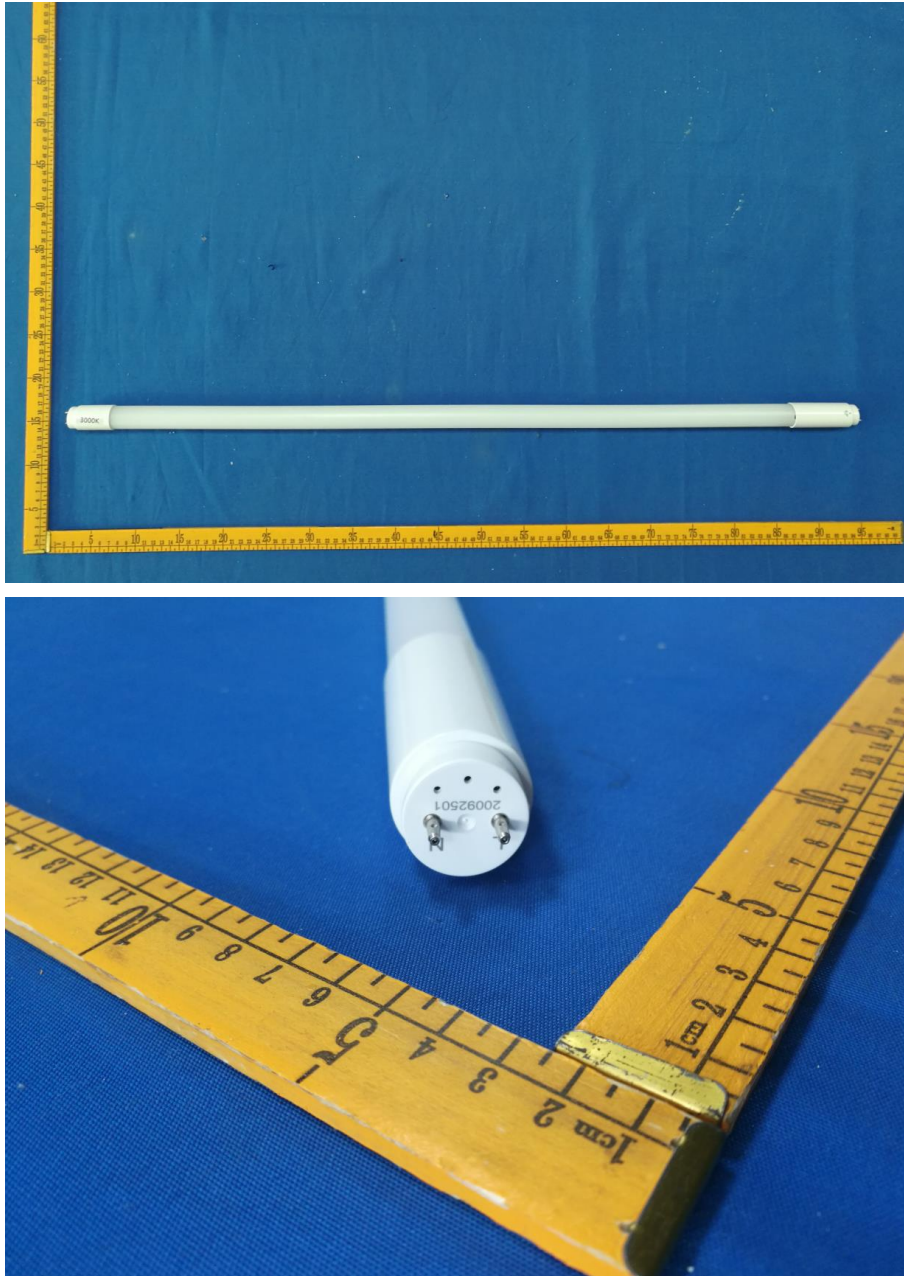
C (DEG)	285	300	315	330	345														
y (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	291	291	291	291	291														
5	291	291	290	290	290														
10	291	289	288	287	286														
15	289	286	283	281	280														
20	286	281	277	274	271														
25	283	276	270	264	260														
30	278	269	261	252	246														
35	273	262	251	240	231														
40	267	253	239	225	214														
45	261	245	228	210	195														
50	254	235	215	193	176														
55	246	226	203	177	155														
60	238	216	190	160	134														
65	230	206	177	144	113														
70	221	195	165	128	92.6														
75	211	184	153	114	73.1														
80	201	173	141	100.0	56.1														
85	189	161	129	87.6	42.3														
90	178	150	118	76.9	32.2														
95	165	130	96.0	52.7	19.7														
100	134	89.4	64.9	37.4	15.3														
105	95.3	74.5	54.8	33.3	14.7														
110	82.1	66.4	48.8	30.6	14.9														
115	73.7	60.4	44.6	28.7	15.5														
120	67.0	55.3	41.1	27.3	16.4														
125	61.1	50.7	38.1	26.3	17.5														
130	55.7	46.4	35.5	25.6	18.5														
135	50.8	42.5	33.2	25.1	19.6														
140	46.1	38.9	31.3	24.8	20.5														
145	41.9	35.8	29.7	24.7	21.1														
150	37.7	32.8	28.0	24.7	21.4														
155	33.2	29.2	25.4	24.1	21.2														
160	31.1	25.6	21.9	22.6	19.5														
165	28.2	25.2	23.1	22.2	19.3														
170	27.0	26.0	25.4	22.7	17.1														
175	24.9	23.7	19.6	15.2	12.5														
180	5.29	5.29	5.29	5.29	5.29														

THD and PF Measurement Test Results:

Electrical Measurement:

Voltage (V)	Frequency (Hz)	Current (A)	Wattage (W)	Power Factor	iTHD (%)
277.0	60	0.0410	10.39	0.9156	17.98

Photo of Sample:



Equipment List:

Equipment ID	Equipment Name	Last Cal.	Due Cal.
NTC-F01-001	Goniophotometer System	2020-11-12	2021-11-11
NTC-F01-006	2.0 meter Integrating Sphere	2020-11-12	2021-11-11
NTC-F01-012	Standard Lamp	2020-11-12	2021-11-11
NTC-F01-013	Standard Lamp	2020-11-12	2021-11-11
NTC-F01-031	Digital Power Meter	2020-08-22	2021-08-21
NTC-F01-019	Temperature & Humidity Meter	2020-11-13	2021-11-12

*******End of Report*******