

Photometric Test Report

Relevant Standards

- ☒ ANSI/IES LM-79-2019
- ☒ ANSI C82.77-2017

Prepared For

RAB Lighting Inc.

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Date: 2025-08-22

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Issue Date: 2025-08-22

Revised Date: N/A

1.0 Test Summary

Wall mount Luminaire					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	N/A		1245
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	116.4
			N/A	N/A	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		10.7
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	6.60
				277V	32.62
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	N/A	120V	0.991
				277V	0.856
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3460±120	3534
			4 steps	3465±124	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		92.1
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		80
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		88
Minimum Rg (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥89		96
IES Rcs,h1 (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	-12%≤IES Rcs,h1≤+23%		-3%
Zonal Lumen Requirement (0°-60°) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	N/A		26.5%
Backlight, Uplight and Glare (BUG) Ratings (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019 IES TM-15-11	N/A		B0-U4-G1
Input Voltage (V)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Cast		277.0
(Goniophotometer – Section 4.2)			Non-Worst Case		120.0
Input Current (A)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		0.045
(Goniophotometer – Section 4.2)			Non-Worst Case		0.087
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		10.7
(Goniophotometer – Section 4.2)			Non-Worst Case		10.3

2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-08-07	V1-24B @10W3500K	-	250728008-S1
2	Goniophotometer Test	2025-08-07	V1-24B @10W3500K	-	250728008-S1
3	THD and PF Test	2025-08-07	V1-24B @10W3500K	-	250728008-S1

Remark (If any):

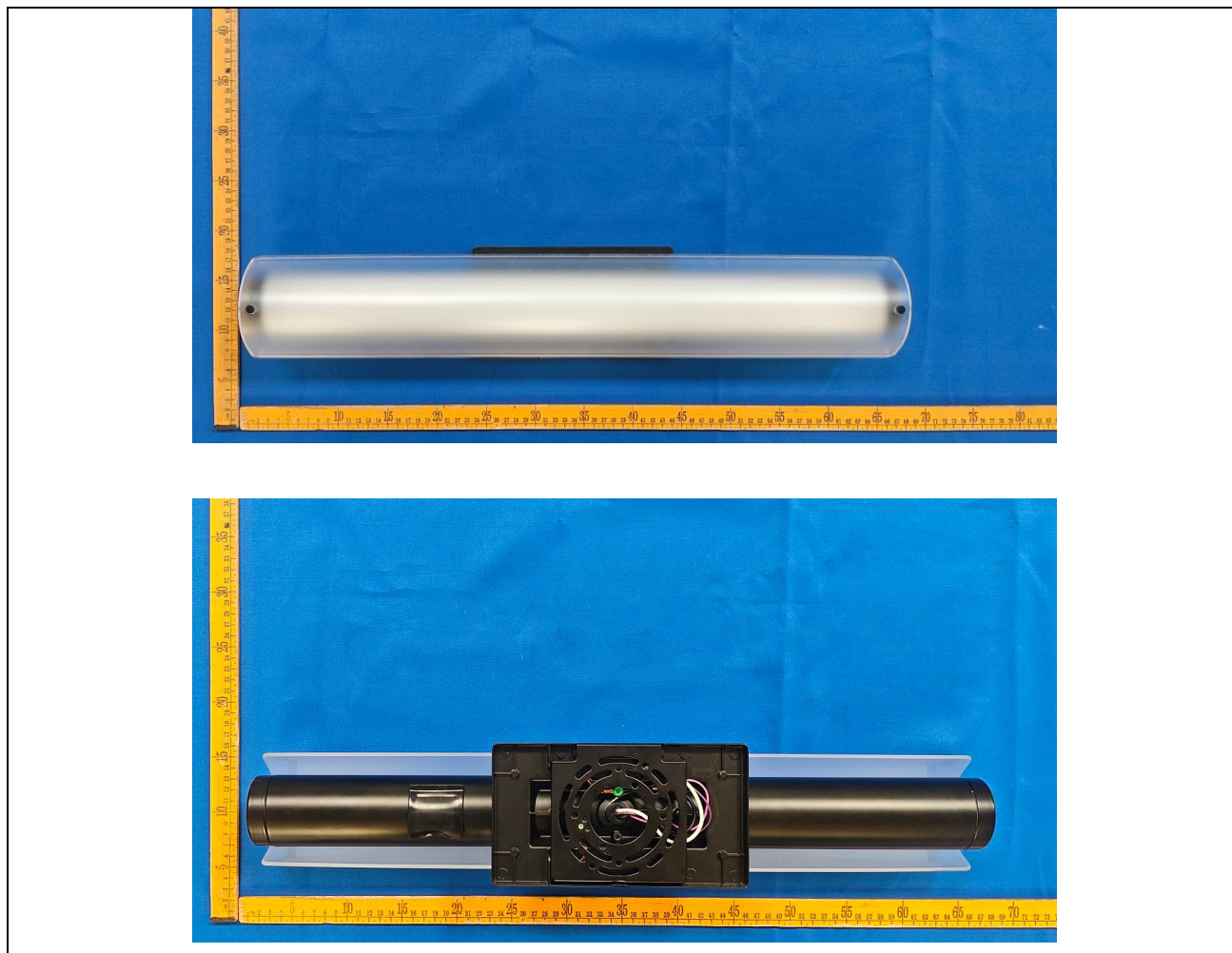
1. The results contained in this report pertain only to the tested samples.
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3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

3.0 Product Description

Luminaire Description: Model No. V1-24B @10W3500K, color tunable from 2700K, 3000K, 3500K, 4000K and 5000K.

Electrical Specification: 120-277Vac, 50/60Hz

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test

Model No.	V1-24B @10W3500K	Sample ID	250728008-S1
Operate time (Min.)	10	Stabilization time (Min.)	60
Temperature (°C)	25.4	Humidity (%RH)	41.0

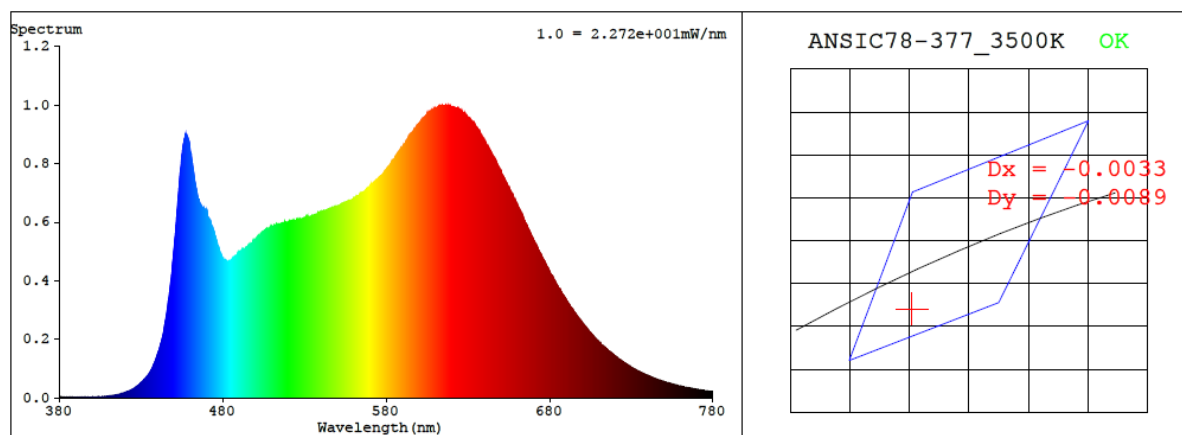
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.</p> <p>The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load.</p> <p>The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780nm.</p>

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.0	60	0.087	10.3	0.991
277.0	60	0.045	10.7	0.856

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3534	92.1	80	-0.0032	4.7	88	96	-3%

4.1 Integrating Sphere Test



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4002$ $y = 0.3809$ / $u' = 0.2364$ $v' = 0.5063$ ($duv = -3.24e-03$)

CCT= 3534K Prcp WL: Ld=582.3nm Purity=34.4%

Peak WL: Lp=617nm FWHM: =182.7nm Ratio:R=22.8% G=72.4% B=4.8%

Render Index: Ra = 92.1 AvgR = 91.1 TM30:Rf=90 Rg=98

EEI: 0.12011 A+

R1 =97 R2 =94 R3 =92 R4 =94 R5 =95 R6 =89 R7 =89

R8 =87 R9 =80 R10=88 R11=97 R12=77 R13=95 R14=96 R15=96

4.1 Integrating Sphere Test

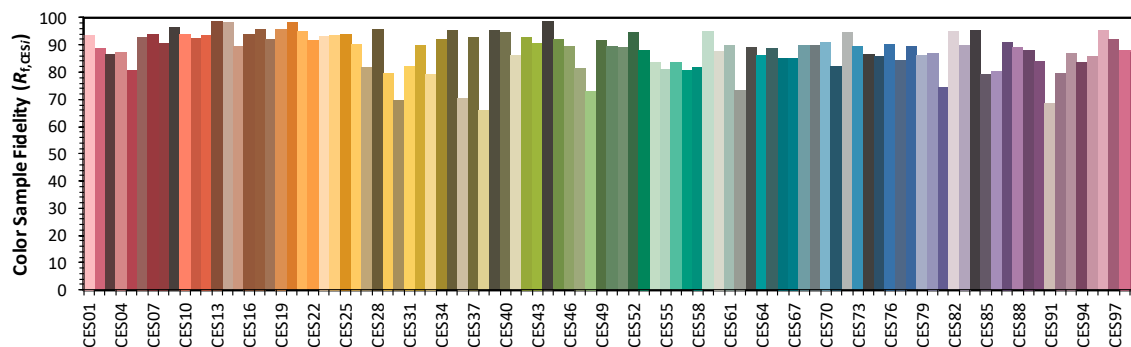
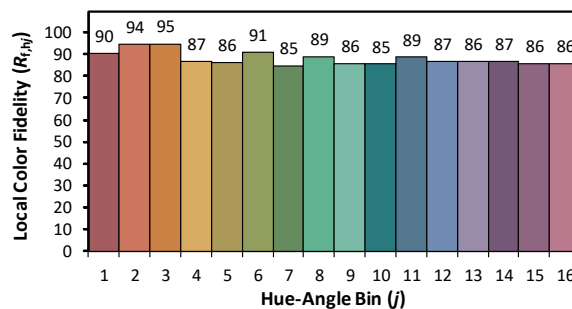
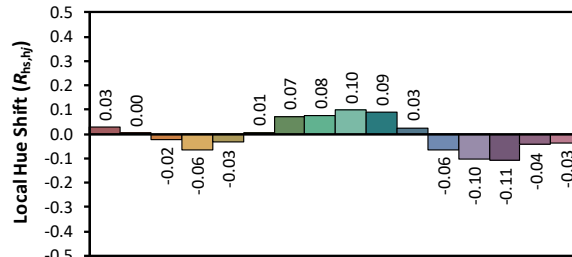
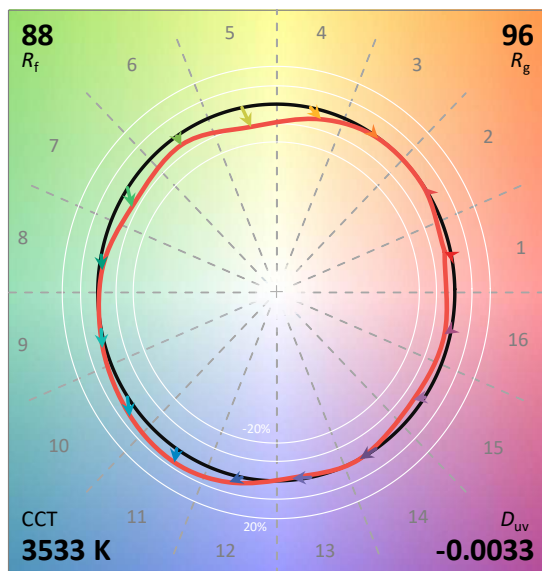
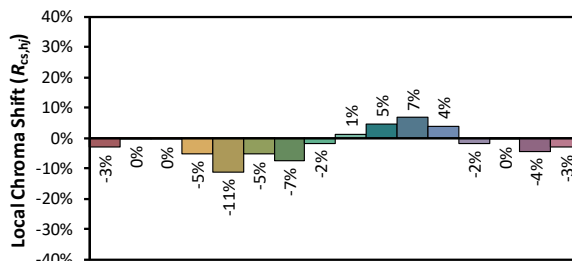
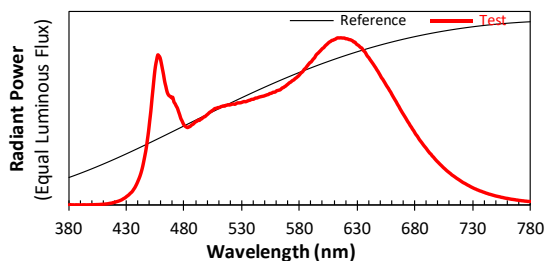
ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/8/22

Model: V1-24B @10W3500K



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

x 0.4002
 y 0.3808
 u' 0.2365
 v' 0.5063

CIE 13.3-1995
(CRI)

R_a 92
 R_g 81

4.1 Integrating Sphere Test

Spectral Distribution over Visible Wavelength											
WL (nm)	Radiant (W/nm)	WL (nm)	Radiant (W/nm)	WL (nm)	Radiant (W/nm)	WL (nm)	Radiant (W/nm)	WL (nm)	Radiant (W/nm)	WL (nm)	Radiant (W/nm)
380	1.70E-06	447	3.40E-04	514	5.93E-04	581	7.87E-04	648	7.98E-04	715	1.67E-04
381	3.20E-06	448	3.90E-04	515	5.91E-04	582	7.93E-04	649	7.86E-04	716	1.62E-04
382	2.30E-06	449	4.40E-04	516	5.96E-04	583	8.00E-04	650	7.74E-04	717	1.57E-04
383	2.20E-06	450	5.03E-04	517	5.97E-04	584	8.10E-04	651	7.61E-04	718	1.53E-04
384	2.20E-06	451	5.62E-04	518	6.00E-04	585	8.16E-04	652	7.52E-04	719	1.48E-04
385	1.50E-06	452	6.36E-04	519	5.98E-04	586	8.25E-04	653	7.41E-04	720	1.43E-04
386	2.50E-06	453	7.04E-04	520	5.99E-04	587	8.34E-04	654	7.30E-04	721	1.39E-04
387	2.10E-06	454	7.74E-04	521	6.01E-04	588	8.43E-04	655	7.18E-04	722	1.34E-04
388	2.20E-06	455	8.29E-04	522	6.04E-04	589	8.51E-04	656	7.07E-04	723	1.31E-04
389	1.70E-06	456	8.65E-04	523	6.03E-04	590	8.55E-04	657	6.97E-04	724	1.27E-04
390	1.50E-06	457	8.96E-04	524	6.02E-04	591	8.64E-04	658	6.85E-04	725	1.23E-04
391	1.60E-06	458	8.91E-04	525	6.06E-04	592	8.73E-04	659	6.75E-04	726	1.19E-04
392	2.30E-06	459	8.79E-04	526	6.10E-04	593	8.80E-04	660	6.61E-04	727	1.16E-04
393	2.30E-06	460	8.50E-04	527	6.10E-04	594	8.92E-04	661	6.49E-04	728	1.12E-04
394	2.30E-06	461	8.14E-04	528	6.11E-04	595	9.01E-04	662	6.37E-04	729	1.08E-04
395	1.70E-06	462	7.79E-04	529	6.11E-04	596	9.07E-04	663	6.26E-04	730	1.05E-04
396	2.20E-06	463	7.38E-04	530	6.14E-04	597	9.14E-04	664	6.14E-04	731	1.01E-04
397	2.10E-06	464	7.09E-04	531	6.17E-04	598	9.21E-04	665	6.01E-04	732	9.81E-05
398	2.50E-06	465	6.79E-04	532	6.19E-04	599	9.29E-04	666	5.90E-04	733	9.56E-05
399	2.40E-06	466	6.61E-04	533	6.17E-04	600	9.36E-04	667	5.77E-04	734	9.20E-05
400	2.70E-06	467	6.53E-04	534	6.19E-04	601	9.40E-04	668	5.65E-04	735	8.98E-05
401	2.60E-06	468	6.48E-04	535	6.22E-04	602	9.49E-04	669	5.53E-04	736	8.64E-05
402	3.20E-06	469	6.41E-04	536	6.25E-04	603	9.56E-04	670	5.42E-04	737	8.42E-05
403	3.30E-06	470	6.43E-04	537	6.26E-04	604	9.62E-04	671	5.31E-04	738	8.19E-05
404	3.70E-06	471	6.17E-04	538	6.30E-04	605	9.68E-04	672	5.20E-04	739	7.89E-05
405	3.80E-06	472	6.06E-04	539	6.32E-04	606	9.74E-04	673	5.08E-04	740	7.68E-05
406	4.10E-06	473	5.92E-04	540	6.32E-04	607	9.78E-04	674	4.97E-04	741	7.41E-05
407	4.50E-06	474	5.79E-04	541	6.36E-04	608	9.83E-04	675	4.87E-04	742	7.15E-05
408	5.10E-06	475	5.59E-04	542	6.39E-04	609	9.84E-04	676	4.75E-04	743	6.96E-05
409	5.30E-06	476	5.39E-04	543	6.40E-04	610	9.88E-04	677	4.65E-04	744	6.68E-05
410	6.00E-06	477	5.17E-04	544	6.42E-04	611	9.90E-04	678	4.53E-04	745	6.52E-05
411	6.70E-06	478	5.04E-04	545	6.45E-04	612	9.95E-04	679	4.44E-04	746	6.33E-05
412	7.30E-06	479	4.88E-04	546	6.47E-04	613	9.98E-04	680	4.32E-04	747	6.12E-05
413	8.10E-06	480	4.76E-04	547	6.48E-04	614	9.98E-04	681	4.21E-04	748	5.91E-05
414	9.00E-06	481	4.70E-04	548	6.50E-04	615	9.98E-04	682	4.13E-04	749	5.72E-05
415	1.05E-05	482	4.66E-04	549	6.51E-04	616	9.99E-04	683	4.02E-04	750	5.52E-05
416	1.18E-05	483	4.63E-04	550	6.54E-04	617	9.97E-04	684	3.91E-04	751	5.37E-05
417	1.24E-05	484	4.68E-04	551	6.56E-04	618	9.97E-04	685	3.82E-04	752	5.22E-05
418	1.49E-05	485	4.70E-04	552	6.59E-04	619	9.97E-04	686	3.73E-04	753	5.08E-05
419	1.64E-05	486	4.77E-04	553	6.61E-04	620	9.93E-04	687	3.63E-04	754	4.93E-05
420	1.81E-05	487	4.81E-04	554	6.66E-04	621	9.93E-04	688	3.54E-04	755	4.70E-05
421	2.04E-05	488	4.86E-04	555	6.67E-04	622	9.91E-04	689	3.46E-04	756	4.61E-05
422	2.23E-05	489	4.93E-04	556	6.69E-04	623	9.88E-04	690	3.37E-04	757	4.44E-05
423	2.45E-05	490	4.98E-04	557	6.74E-04	624	9.87E-04	691	3.27E-04	758	4.28E-05
424	2.70E-05	491	5.01E-04	558	6.74E-04	625	9.84E-04	692	3.19E-04	759	4.14E-05
425	2.99E-05	492	5.08E-04	559	6.76E-04	626	9.80E-04	693	3.10E-04	760	4.05E-05
426	3.32E-05	493	5.05E-04	560	6.82E-04	627	9.74E-04	694	3.04E-04	761	3.93E-05
427	3.78E-05	494	5.12E-04	561	6.84E-04	628	9.73E-04	695	2.94E-04	762	3.78E-05
428	4.17E-05	495	5.15E-04	562	6.86E-04	629	9.64E-04	696	2.88E-04	763	3.64E-05
429	4.60E-05	496	5.21E-04	563	6.88E-04	630	9.58E-04	697	2.79E-04	764	3.53E-05
430	5.21E-05	497	5.26E-04	564	6.94E-04	631	9.54E-04	698	2.71E-04	765	3.45E-05
431	5.69E-05	498	5.29E-04	565	6.99E-04	632	9.47E-04	699	2.64E-04	766	3.34E-05
432	6.25E-05	499	5.35E-04	566	7.02E-04	633	9.41E-04	700	2.57E-04	767	3.25E-05
433	6.98E-05	500	5.41E-04	567	7.07E-04	634	9.37E-04	701	2.50E-04	768	3.09E-05
434	7.57E-05	501	5.47E-04	568	7.11E-04	635	9.26E-04	702	2.43E-04	769	3.04E-05
435	8.30E-05	502	5.54E-04	569	7.18E-04	636	9.19E-04	703	2.36E-04	770	2.91E-05
436	9.34E-05	503	5.58E-04	570	7.23E-04	637	9.11E-04	704	2.29E-04	771	2.81E-05
437	1.04E-04	504	5.64E-04	571	7.30E-04	638	8.98E-04	705	2.23E-04	772	2.74E-05
438	1.16E-04	505	5.68E-04	572	7.33E-04	639	8.88E-04	706	2.17E-04	773	2.63E-05
439	1.30E-04	506	5.74E-04	573	7.39E-04	640	8.81E-04	707	2.10E-04	774	2.59E-05
440	1.47E-04	507	5.77E-04	574	7.44E-04	641	8.70E-04	708	2.04E-04	775	2.47E-05
441	1.63E-04	508	5.78E-04	575	7.48E-04	642	8.60E-04	709	1.99E-04	776	2.41E-05
442	1.83E-04	509	5.82E-04	576	7.55E-04	643	8.50E-04	710	1.93E-04	777	2.36E-05
443	2.06E-04	510	5.82E-04	577	7.59E-04	644	8.41E-04	711	1.88E-04	778	2.24E-05
444	2.34E-04	511	5.85E-04	578	7.65E-04	645	8.30E-04	712	1.81E-04	779	2.24E-05
445	2.67E-04	512	5.89E-04	579	7.71E-04	646	8.20E-04	713	1.77E-04	780	2.25E-05
446	3.02E-04	513	5.90E-04	580	7.79E-04	647	8.08E-04	714	1.72E-04	N/A	N/A

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test

Model No.	V1-24B @10W3500K	Sample ID	250728008-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	24.9	Humidity (%RH)	42.6

Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using a type C goniophotometer and software.</p> <p>The ambient temperature shall be maintained at $25 \pm 1^\circ\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample.</p> <p>The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.</p> <p>The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1.0° vertical intervals and 15° horizontal intervals.</p>

Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	277.0	60	0.045	10.7	0.856
NON-WORST CASE	120.0	60	0.087	10.3	0.991

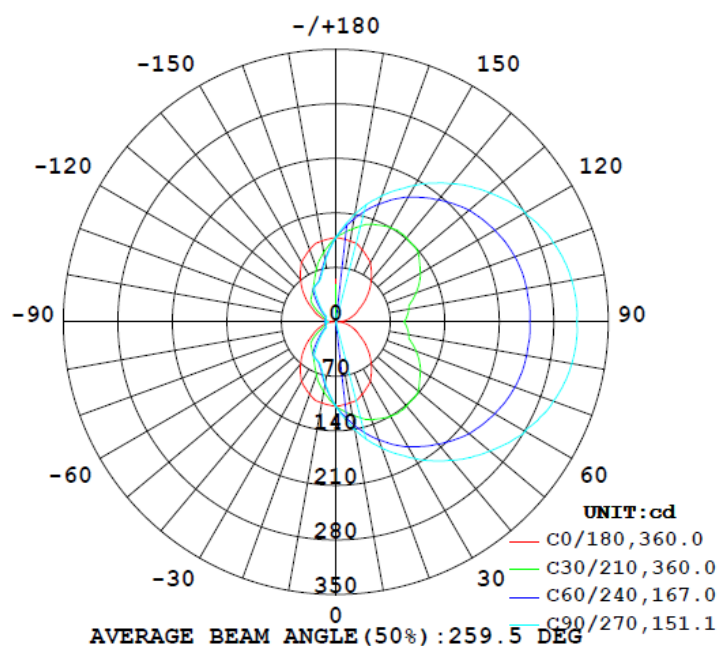
Test Result

Flux (lm)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)	Zonal Lumen Requirement	BUG
	C0-180	C90-270	C0-180	C90-270		(0° - 60°)	
1245	86.8	154.9	180.0	97.6	116.4	26.5%	B0-U4-G1

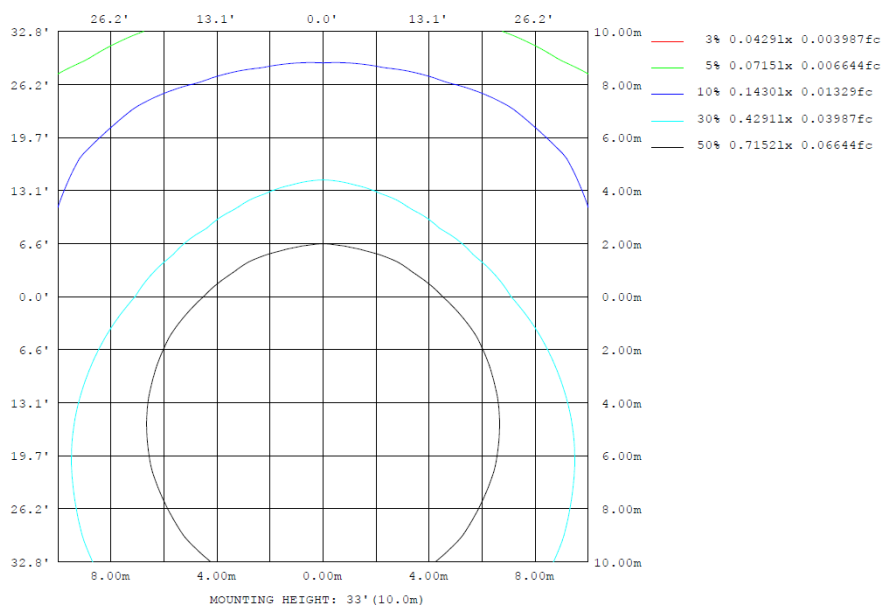
4.2 Goniophotometer Test

Lighting Distribution Curve

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Isolux Plot



4.2 Goniophotometer Test

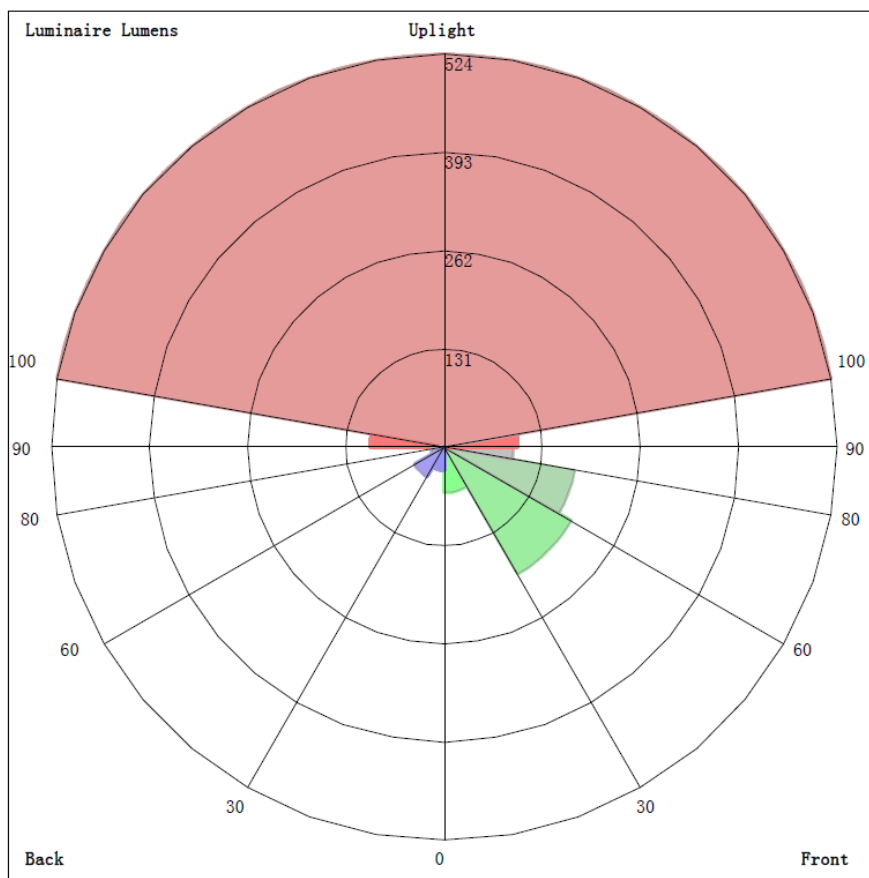
Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	105.6	128.3	140.6	128.3	105.6	85.15	79.34	85.15	0- 10	10.26	10.26	0.82,0.82
20	98.86	149.5	172.4	149.5	98.86	65.35	58.74	65.35	10- 20	30.37	40.62	3.26,3.26
30	88.44	164.0	202.4	164.0	88.44	53.31	54.27	53.31	20- 30	49.78	90.41	7.26,7.26
40	70.75	176.7	231.8	176.7	70.75	48.11	36.34	48.11	30- 40	67.97	158.4	12.7,12.7
50	53.03	183.3	258.1	183.3	53.03	32.32	22.59	32.32	40- 50	81.60	240.0	19.3,19.3
60	35.28	186.0	280.9	186.0	35.28	20.19	14.22	20.19	50- 60	90.45	330.4	26.5,26.5
70	23.85	184.2	297.2	184.2	23.85	14.44	13.67	14.44	60- 70	95.58	426.0	34.2,34.2
80	12.88	178.9	307.8	178.9	12.88	14.05	13.49	14.05	70- 80	97.96	524.0	42.1,42.1
90	2.360	175.3	309.4	175.3	2.360	14.50	13.58	14.50	80- 90	98.77	622.7	50.50
100	12.88	178.9	307.8	178.9	12.88	14.05	13.49	14.05	90-100	98.77	721.5	57.9,57.9
110	23.85	184.2	297.2	184.2	23.85	14.44	13.67	14.44	100-110	97.96	819.5	65.8,65.8
120	35.28	186.0	280.9	186.0	35.28	20.19	14.22	20.19	110-120	95.58	915.0	73.5,73.5
130	53.03	183.3	258.1	183.3	53.03	32.32	22.59	32.32	120-130	90.45	1005	80.7,80.7
140	70.75	176.7	231.8	176.7	70.75	48.11	36.34	48.11	130-140	81.60	1087	87.3,87.3
150	88.44	164.0	202.4	164.0	88.44	53.31	54.27	53.31	140-150	67.97	1155	92.7,92.7
160	98.86	149.5	172.4	149.5	98.86	65.35	58.74	65.35	150-160	49.78	1205	96.7,96.7
170	105.6	128.3	140.6	128.3	105.6	85.15	79.34	85.15	160-170	30.37	1235	99.2,99.2
180	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	170-180	10.26	1245	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	10.26	0-10	10.26	0.83%
10-20	30.37	0-20	40.63	3.29%
20-30	49.78	0-30	90.41	7.32%
30-40	67.97	0-40	158.38	12.82%
40-50	81.60	0-50	239.98	19.43%
50-60	90.45	0-60	330.43	26.75%
60-70	95.58	0-70	426.01	34.49%
70-80	97.96	0-80	523.97	42.42%
80-90	98.77	0-90	622.74	50.42%
90-100	98.77	0-100	721.51	58.41%
100-110	97.96	0-110	819.47	66.34%
110-120	95.58	0-120	915.05	74.08%
120-130	90.45	0-130	1005.50	81.40%
130-140	81.60	0-140	1087.10	88.01%
140-150	67.97	0-150	1155.07	93.51%
150-160	49.78	0-160	1204.85	97.54%
160-170	30.37	0-170	1235.22	100.00%
170-180	10.26	0-180	1245.48	100.83%

4.2 Goniophotometer Test

LCS/BUG

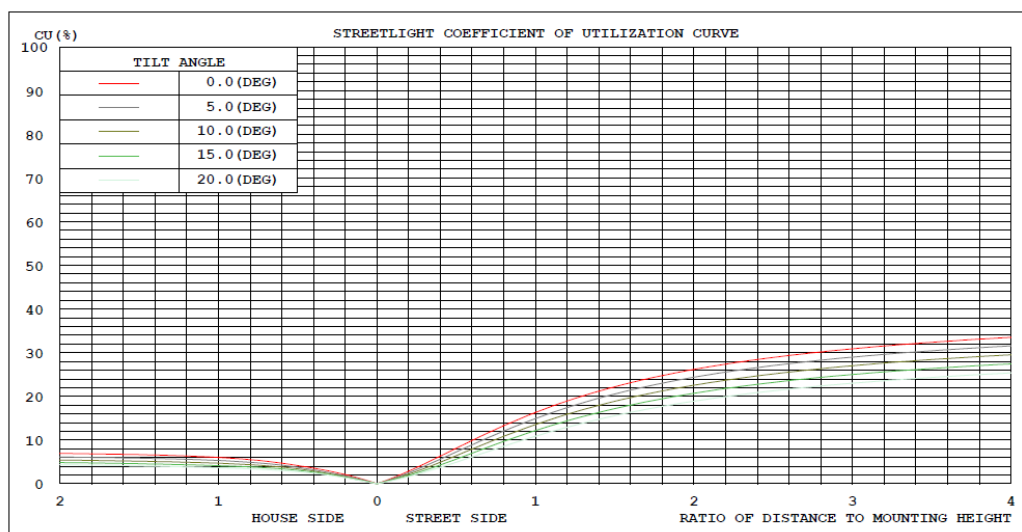


LUMINAIRE CLASSIFICATION SYSTEM (LCS)

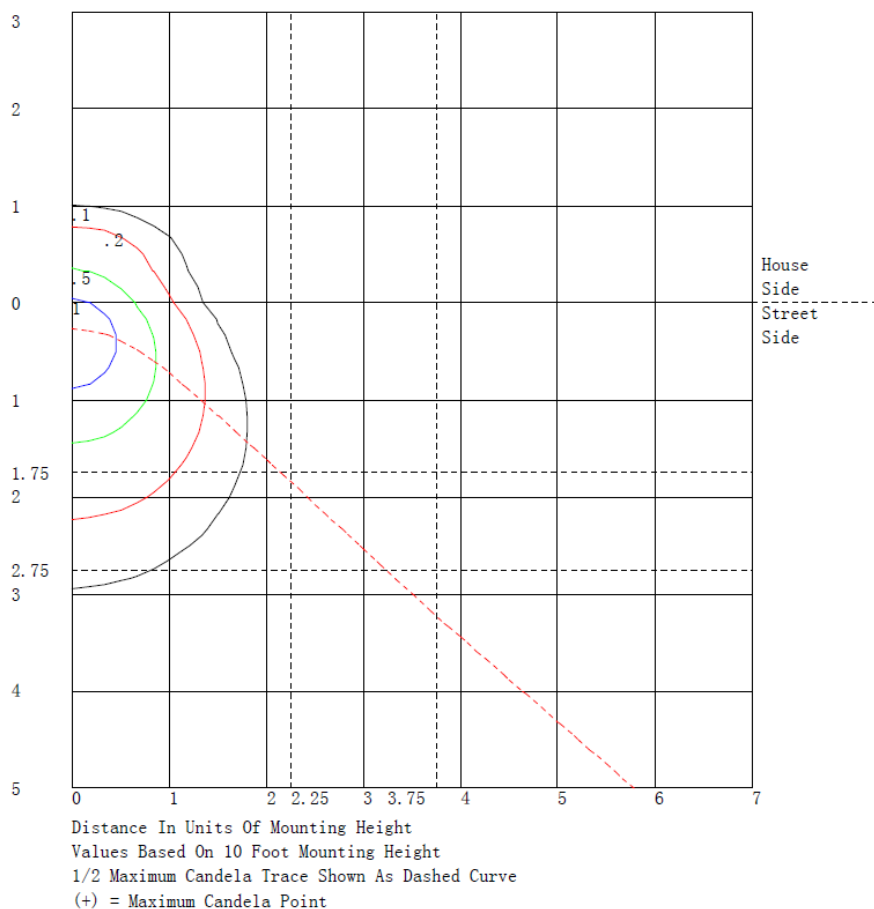
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	60.1	N.A.	4.8
FM - Front-Medium (30-60)	195.3	N.A.	15.7
FH - Front-High (60-80)	176.3	N.A.	14.2
FVH - Front-Very High (80-90)	91.8	N.A.	7.4
BL - Back-Low (0-30)	30.3	N.A.	2.4
BM - Back-Medium (30-60)	44.7	N.A.	3.6
BH - Back-High (60-80)	17.2	N.A.	1.4
BVH - Back-Very High (80-90)	7.0	N.A.	0.6
UL - Uplight-Low (90-100)	98.8	N.A.	7.9
UH - Uplight-High (100-180)	524.0	N.A.	42.1
Total	1245.5	N.A.	100.0
BUG Rating	B0-U4-G1		

4.2 Goniophotometer Test

Coefficients of Utilization



Isolines



4.2 Goniophotometer Test

Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) y (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
5	107	111	115	118	121	123	124	123	121	118	115	111	107	103	99.6	96.7	94.6	93.6	93.6
10	106	113	121	128	134	139	141	139	134	128	121	113	106	97.6	90.7	85.2	81.5	79.5	79.3
15	104	116	128	139	148	154	157	154	148	139	128	116	104	92.5	82.2	74.7	69.5	67.0	66.8
20	98.9	115	134	150	161	169	172	169	161	150	134	115	98.9	84.0	73.1	65.3	60.6	58.7	58.7
25	93.7	115	137	157	174	183	187	183	174	157	137	115	93.7	75.8	63.9	57.7	55.8	55.2	55.4
30	88.4	114	140	164	185	197	202	197	185	164	140	114	88.4	68.1	56.8	53.3	53.4	53.8	54.3
35	79.6	110	142	171	195	211	218	211	195	171	142	110	79.6	59.7	51.5	50.9	51.1	47.6	46.5
40	70.8	105	141	177	205	225	232	225	205	177	141	105	70.8	52.3	47.7	48.1	42.2	37.6	36.3
45	61.9	99.7	140	180	214	238	246	238	214	180	140	99.7	61.9	45.7	44.9	41.2	33.3	29.7	28.6
50	53.0	90.6	138	183	223	248	258	248	223	183	138	90.6	53.0	40.7	41.8	32.3	26.5	23.4	22.6
55	44.2	80.1	131	186	230	259	271	259	230	186	131	80.1	44.2	36.3	34.8	25.4	21.0	18.6	18.1
60	35.3	69.2	125	186	236	269	281	269	236	186	125	69.2	35.3	32.3	26.7	20.2	16.4	14.6	14.2
65	29.6	60.5	118	186	241	277	289	277	241	186	118	60.5	29.6	27.0	20.4	16.2	14.6	14.0	13.8
70	23.9	51.9	110	184	245	284	297	284	245	184	110	51.9	23.9	20.9	16.8	14.4	14.3	13.9	13.7
75	18.1	42.6	100	182	248	289	304	289	248	182	100	42.6	18.1	14.7	13.7	14.1	14.2	13.9	13.6
80	12.9	40.1	95.1	179	249	293	308	293	249	179	95.1	40.1	12.9	13.3	12.9	14.0	13.9	13.6	13.5
85	7.62	38.2	92.0	178	250	294	310	294	250	178	92.0	38.2	7.62	12.5	13.2	14.3	14.1	12.4	12.1
90	2.36	35.9	87.6	175	249	295	309	295	249	175	87.6	35.9	2.36	11.9	13.5	14.5	14.8	12.2	13.6
95	7.62	38.2	92.0	178	250	294	310	294	250	178	92.0	38.2	7.62	12.5	13.2	14.3	14.1	12.4	12.1
100	12.9	40.1	95.1	179	249	293	308	293	249	179	95.1	40.1	12.9	13.3	12.9	14.0	13.9	13.6	13.5
105	18.1	42.6	100	182	248	289	304	289	248	182	100	42.6	18.1	14.7	13.7	14.1	14.2	13.9	13.6
110	23.9	51.9	110	184	245	284	297	284	245	184	110	51.9	23.9	20.9	16.8	14.4	14.3	13.9	13.7
115	29.6	60.5	118	186	241	277	289	277	241	186	118	60.5	29.6	27.0	20.4	16.2	14.6	14.0	13.8
120	35.3	69.2	125	186	236	269	281	269	236	186	125	69.2	35.3	32.3	26.7	20.2	16.4	14.6	14.2
125	44.2	80.1	131	186	230	259	271	259	230	186	131	80.1	44.2	36.3	34.8	25.4	21.0	18.6	18.1
130	53.0	90.6	138	183	223	248	258	248	223	183	138	90.6	53.0	40.7	41.8	32.3	26.5	23.4	22.6
135	61.9	99.7	140	180	214	238	246	238	214	180	140	99.7	61.9	45.7	44.9	41.2	33.3	29.7	28.6
140	70.8	105	141	177	205	225	232	225	205	177	141	105	70.8	52.3	47.7	48.1	42.2	37.6	36.3
145	79.6	110	142	171	195	211	218	211	195	171	142	110	79.6	59.7	51.5	50.9	51.1	47.6	46.5
150	88.4	114	140	164	185	197	202	197	185	164	140	114	88.4	68.1	56.8	53.3	53.4	53.8	54.3
155	93.7	115	137	157	174	183	187	183	174	157	137	115	93.7	75.8	63.9	57.7	55.8	55.2	55.4
160	98.9	115	134	150	161	169	172	169	161	150	134	115	98.9	84.0	73.1	65.3	60.6	58.7	58.7
165	104	116	128	139	148	154	157	154	148	139	128	116	104	92.5	82.2	74.7	69.5	67.0	66.8
170	106	113	121	128	134	139	141	139	134	128	121	113	106	97.6	90.7	85.2	81.5	79.5	79.3
175	107	111	115	118	121	123	124	123	121	118	111	107	103	99.6	96.7	94.6	93.6	93.6	93.6
180	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	109	109	109	109	109														
5	93.6	94.6	96.7	99.6	103														
10	79.5	81.5	85.2	90.7	97.6														
15	67.0	69.5	74.7	82.2	92.5														
20	58.7	60.6	65.3	73.1	84.0														
25	55.2	55.8	57.7	63.9	75.8														
30	53.8	53.4	53.3	56.8	68.1														
35	47.6	51.1	50.9	51.5	59.7														
40	37.6	42.2	48.1	47.7	52.3														
45	29.7	33.3	41.2	44.9	45.7														
50	23.4	26.5	32.3	41.8	40.7														
55	18.6	21.0	25.4	34.8	36.3														
60	14.6	16.4	20.2	26.7	32.3														
65	14.0	14.6	16.2	20.4	27.0														
70	13.9	14.3	14.4	16.8	20.9														
75	13.9	14.2	14.1	13.7	14.7														
80	13.6	13.9	14.0	12.9	13.3														
85	12.4	14.1	14.3	13.2	12.5														
90	12.2	14.8	14.5	13.5	11.9														
95	12.4	14.1	14.3	13.2	12.5														
100	13.6	13.9	14.0	12.9	13.3														
105	13.9	14.2	14.1	13.7	14.7														
110	13.9	14.3	14.4	16.8	20.9														
115	14.0	14.6	16.2	20.4	27.0														
120	14.6	16.4	20.2	26.7	32.3														
125	18.6	21.0	25.4	34.8	36.3														
130	23.4	26.5	32.3	41.8	40.7														
135	29.7	33.3	41.2	44.9	45.7														
140	37.6	42.2	48.1	47.7	52.3														
145	47.6	51.1	50.9	51.5	59.7														
150	53.8	53.4	53.3	56.8	68.1														
155	55.2	55.8	57.7	63.9	75.8														
160	58.7	60.6	65.3	73.1	84.0														
165	67.0	69.5	74.7	82.2	92.5														
170	79.5	81.5	85.2	90.7	97.6														
175	93.6	94.6	96.7	99.6	103														
180	109	109	109	109	109														

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	V1-24B @10W3500K	Sample ID	250728008-S1
Temperature (°C)	25.4	Humidity (%RH)	41.0

Test Method
<p>The samples were tested according to the and Ansi C82.77: 2002 and ANSI C82.77-10:2020</p> <p>The total harmonic distortion shall be measured to the 40th order.</p> <p>The ambient temperature shall be maintained at $25 \pm 1^{\circ}\text{C}$. The sample measurements were made using a digital power meter and power supply. The sample was operated at rated voltage and was stabilized before measurement. The total harmonic distortion was calculated.</p>

Test Results

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	iTHD(%)
120.0	60	0.087	10.3	0.991	6.60
277.0	60	0.045	10.7	0.856	32.62

5.0 Equipment List:

Equipment ID	Equipment Name	Last Cal.	Due Cal.
NTC-F01-001	Goniophotometer System	2024-11-07	2025-11-06
NTC-F01-006	2.0 meter Integrating Sphere	2024-11-07	2025-11-06
NTC-F01-012	Standard Lamp	2024-10-28	2025-10-27
NTC-F01-013	Standard Lamp	2024-10-28	2025-10-27
NTC-F01-031	Digital Power Meter	2025-08-04	2026-08-03
NTC-F01-019	Temperature & Humidity Meter	2024-10-29	2025-10-28

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