

## Photometric Test Report

### Relevant Standards

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

Prepared For

**RAB Lighting Inc.**

Address: 408 W 14th St New York, NY 10014

Prepared By

**Dongguan New Testing Centre Co., Ltd.**

Address: 3F No. 1 the 1st North Industry Road, Songshan Lake Science & Technology Park, Dongguan, Guangdong, China

Prepare by:

*Alan Wang*

Engineer: Alan Wang

Date: 2025-09-19

Review by:

*Vincent Yuan*

Technical Lead: Vincent Yuan

Issue Date: 2025-09-19

Revised Date: N/A

## 1.0 Test Summary

DLC Technical Requirements V6.0

Track or Mono-Point Directional Luminaires					
Requirement Category		Test Method	Requirements		Test Value
Luminaire Output (lm) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	250		1722
Minimum Luminaire Efficacy (lm/W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Standard	Premium	87.9
			95	110	
Power (Input Wattage) (W) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		19.6
Total Harmonic Distortion (A%) (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	20.00%	120V	8.74
Power Factor (THD & PF – Section 4.3)		ANSI C82.77:2002 ANSI C82-77-10:2020	0.9	120V	0.983
Allowable CCTs* (K) (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019	7 steps	3465±245	3387
			4 steps	3465±124	
Minimum CRI (Integrating Sphere – Section 4.1)		ANSI/IES LM-79:2019 CIE13.3-1995	≥80		96.6
Minimum R9 (Integrating Sphere – Section 4.1)		ANSI/IES LM-79-2019 CIE13.3-1995	≥0		77
Minimum Rf (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥70		93
Minimum Rg (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	≥89		99
IES Rcs,h1 (Integrating Sphere – Section 4.1)		ANSI/IES TM-30-18	-12%≤IES Rcs,h1≤+23%		-3%
Zonal Lumen Requirement (0°-90°) (Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	≥85%		100.0%
Input Voltage (V)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Cast		120.0
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Input Current (A)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		0.166
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A
Power (Input Wattage – W)					
(Goniophotometer – Section 4.2)		ANSI/IES LM-79:2019	Worst Case		19.6
(Goniophotometer – Section 4.2)			Non-Worst Case		N/A

## 2.0 Test List

Test Item	Test	Test Date	Model Number	Build Level	Sample No.
1	Integrating Sphere Test	2025-09-17	PIVOTL24DB @20W3500K	-	250903022-S1
2	Goniophotometer Test	2025-09-17	PIVOTL24DB @20W3500K	-	250903022-S1
3	THD and PF Test	2025-09-17	PIVOTL24DB @20W3500K	-	250903022-S1

### Remark (If any):

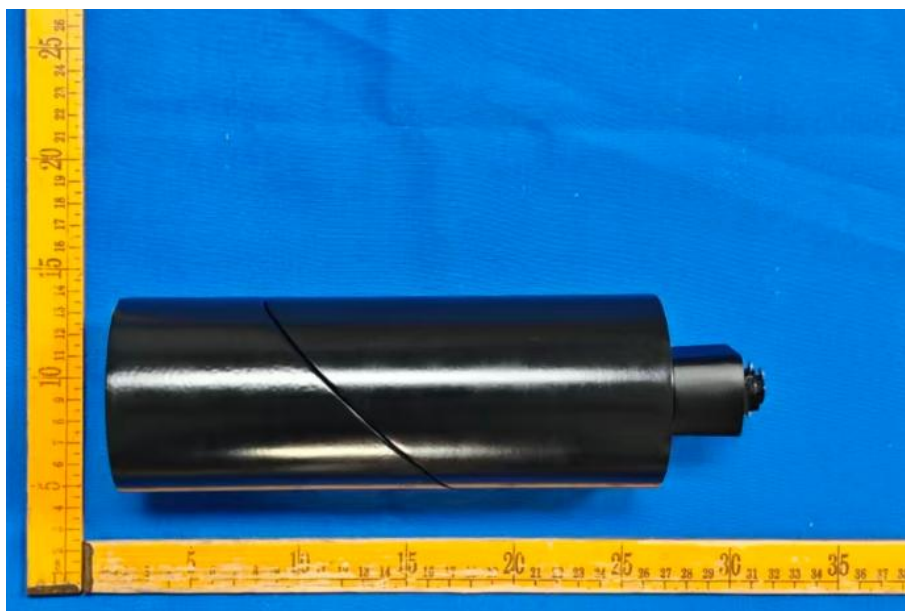
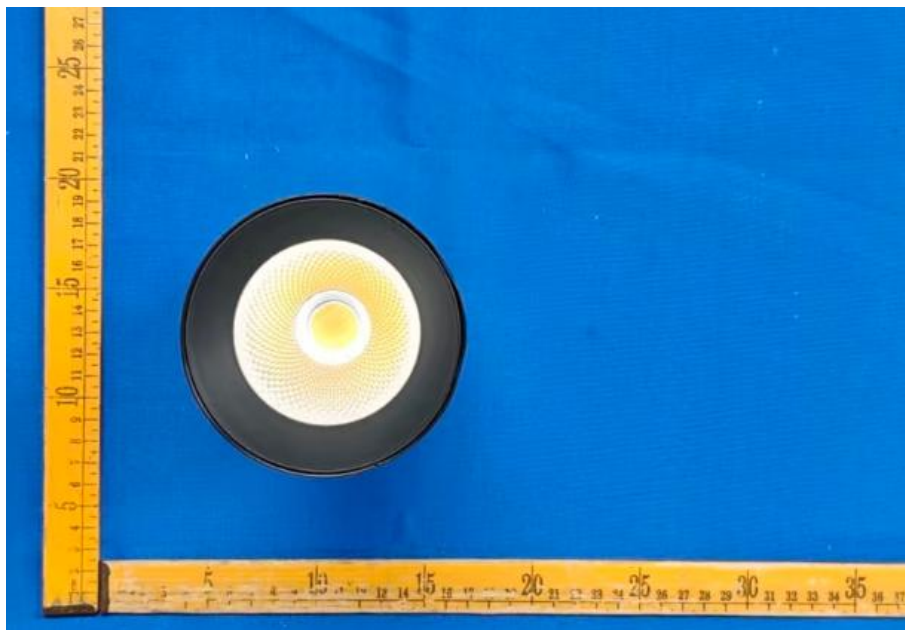
1. The results contained in this report pertain only to the tested samples.
2. This report shall not be reproduced, no limited part or full, without approval of Dongguan New Testing Centre Co., Ltd.
3. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. Government.

### 3.0 Product Description

Luminaire Description: Model No. PIVOTL24DB @20W3500K, color tunable from 2700K, 3000K, 3500K, 4000K and 5000K.

Electrical Specification: 120Vac, 60Hz

Photos of Luminaire Characteristics



## 4.0 LM-79 Measurement and Test Results

### 4.1 Integrating Sphere Test

<b>Model No.</b>	PIVOTL24DB @20W3500K	<b>Sample ID</b>	250903022-S1
<b>Operate time (Min.)</b>	10	<b>Stabilization time (Min.)</b>	60
<b>Temperature (°C)</b>	25.4	<b>Humidity (%RH)</b>	41.0

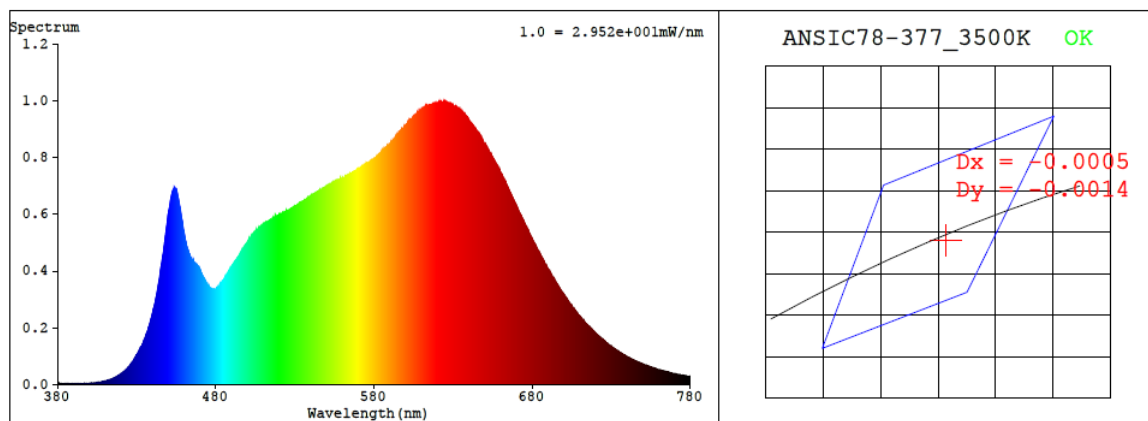
Test Method
<p>The Samples were tested according to the ANSI/IES LM-79:2019.</p> <p>Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25±1°C.</p> <p>The sample measurements were made 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 4<math>\pi</math> 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	0.166	19.6	0.983

CCT (K)	CRI	R9	Duv	SDCM	Rf	Rg	IES Rcs,h1
3387	96.6	77	-0.0005	2.3	93	99	-3%

## 4.1 Integrating Sphere Test



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4113$   $y = 0.3925$  /  $u' = 0.2388$   $v' = 0.5129$  ( $duv = -4.74e-04$ )

CCT= 3387K Prcp WL: Ld=581.5nm Purity=41.3%

Peak WL: Lp=624nm FWHM: =181.6nm Ratio:R=22.7% G=73.5% B=3.8%

Render Index: Ra = 96.6 AvgR = 94.9 TM30:Rf=94 Rg=100

EEL: 0.16957 A+

R1 =98 R2 =100 R3 =99 R4 =97 R5 =97 R6 =97 R7 =95

R8 =90 R9 =77 R10=98 R11=99 R12=84 R13=99 R14=99 R15=95

## 4.1 Integrating Sphere Test

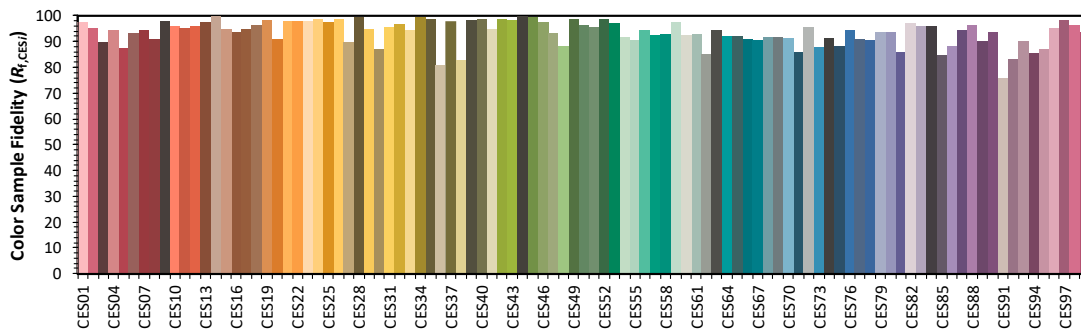
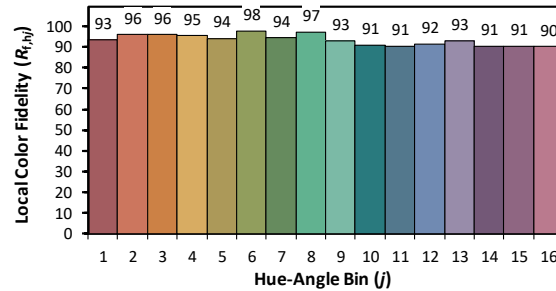
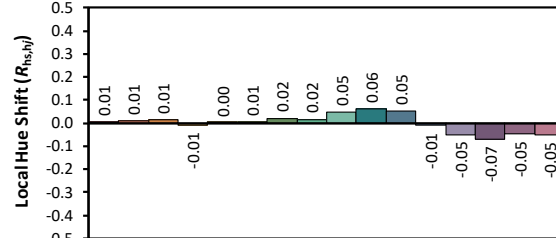
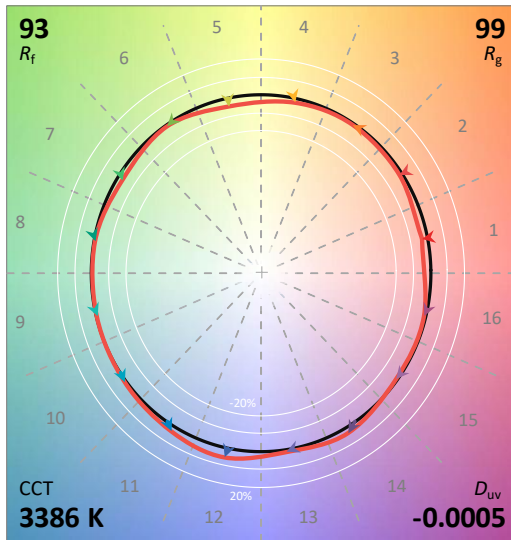
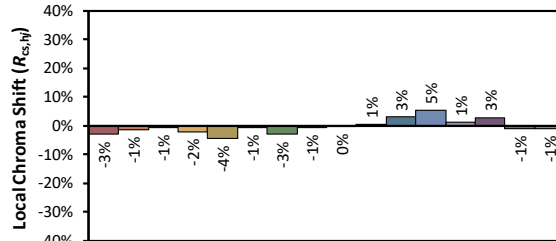
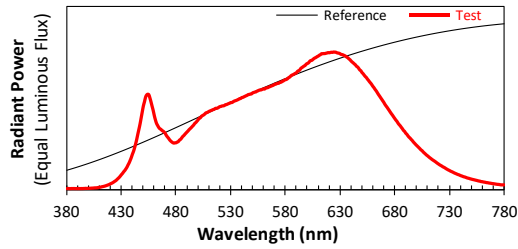
### ANSI/IES TM-30-18 Color Rendition Report

Source: 1 CIE F1

Manufacturer: RAB Lighting Inc.

Date: 2025/9/19

Model: PIVOTL24DB @20W3500K



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

$x$  0.4113  
 $y$  0.3924  
 $u'$  0.2389  
 $v'$  0.5129

CIE 13.3-1995  
(CRI)  
 $R_a$  97  
 $R_9$  77



## 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	2.00E-06	447	4.74E-04	514	5.78E-04	581	7.98E-04	648	8.67E-04	715	2.10E-04
381	3.70E-06	448	5.17E-04	515	5.81E-04	582	8.04E-04	649	8.61E-04	716	2.05E-04
382	2.70E-06	449	5.61E-04	516	5.87E-04	583	8.11E-04	650	8.48E-04	717	1.99E-04
383	2.20E-06	450	6.04E-04	517	5.87E-04	584	8.15E-04	651	8.40E-04	718	1.93E-04
384	2.90E-06	451	6.34E-04	518	5.90E-04	585	8.24E-04	652	8.29E-04	719	1.87E-04
385	2.90E-06	452	6.68E-04	519	5.95E-04	586	8.29E-04	653	8.19E-04	720	1.82E-04
386	3.10E-06	453	6.84E-04	520	5.99E-04	587	8.32E-04	654	8.11E-04	721	1.76E-04
387	3.00E-06	454	6.89E-04	521	6.01E-04	588	8.37E-04	655	8.00E-04	722	1.71E-04
388	2.60E-06	455	6.86E-04	522	6.04E-04	589	8.42E-04	656	7.90E-04	723	1.67E-04
389	3.00E-06	456	6.63E-04	523	6.05E-04	590	8.46E-04	657	7.79E-04	724	1.61E-04
390	2.30E-06	457	6.34E-04	524	6.07E-04	591	8.56E-04	658	7.70E-04	725	1.58E-04
391	3.20E-06	458	6.02E-04	525	6.13E-04	592	8.61E-04	659	7.59E-04	726	1.53E-04
392	2.30E-06	459	5.72E-04	526	6.14E-04	593	8.66E-04	660	7.47E-04	727	1.47E-04
393	3.10E-06	460	5.35E-04	527	6.18E-04	594	8.77E-04	661	7.37E-04	728	1.43E-04
394	2.70E-06	461	5.04E-04	528	6.22E-04	595	8.83E-04	662	7.25E-04	729	1.38E-04
395	3.30E-06	462	4.79E-04	529	6.25E-04	596	8.89E-04	663	7.14E-04	730	1.35E-04
396	3.40E-06	463	4.63E-04	530	6.29E-04	597	8.95E-04	664	7.02E-04	731	1.30E-04
397	4.40E-06	464	4.49E-04	531	6.29E-04	598	9.00E-04	665	6.89E-04	732	1.27E-04
398	3.80E-06	465	4.39E-04	532	6.34E-04	599	9.09E-04	666	6.77E-04	733	1.23E-04
399	4.40E-06	466	4.34E-04	533	6.39E-04	600	9.14E-04	667	6.65E-04	734	1.19E-04
400	4.80E-06	467	4.26E-04	534	6.42E-04	601	9.18E-04	668	6.54E-04	735	1.15E-04
401	5.00E-06	468	4.21E-04	535	6.45E-04	602	9.27E-04	669	6.42E-04	736	1.11E-04
402	5.50E-06	469	4.14E-04	536	6.48E-04	603	9.35E-04	670	6.30E-04	737	1.08E-04
403	6.20E-06	470	4.05E-04	537	6.52E-04	604	9.36E-04	671	6.16E-04	738	1.05E-04
404	6.40E-06	471	3.90E-04	538	6.57E-04	605	9.42E-04	672	6.05E-04	739	1.02E-04
405	7.40E-06	472	3.79E-04	539	6.59E-04	606	9.49E-04	673	5.94E-04	740	9.79E-05
406	8.00E-06	473	3.70E-04	540	6.65E-04	607	9.54E-04	674	5.82E-04	741	9.53E-05
407	8.20E-06	474	3.58E-04	541	6.67E-04	608	9.58E-04	675	5.71E-04	742	9.22E-05
408	9.20E-06	475	3.49E-04	542	6.71E-04	609	9.64E-04	676	5.58E-04	743	8.90E-05
409	1.10E-05	476	3.42E-04	543	6.75E-04	610	9.68E-04	677	5.47E-04	744	8.71E-05
410	1.24E-05	477	3.37E-04	544	6.79E-04	611	9.74E-04	678	5.36E-04	745	8.43E-05
411	1.35E-05	478	3.34E-04	545	6.82E-04	612	9.78E-04	679	5.24E-04	746	8.09E-05
412	1.59E-05	479	3.36E-04	546	6.87E-04	613	9.85E-04	680	5.13E-04	747	7.88E-05
413	1.74E-05	480	3.37E-04	547	6.88E-04	614	9.85E-04	681	5.02E-04	748	7.68E-05
414	1.93E-05	481	3.41E-04	548	6.91E-04	615	9.86E-04	682	4.92E-04	749	7.40E-05
415	2.16E-05	482	3.45E-04	549	6.92E-04	616	9.86E-04	683	4.79E-04	750	7.19E-05
416	2.42E-05	483	3.56E-04	550	7.00E-04	617	9.88E-04	684	4.69E-04	751	6.97E-05
417	2.72E-05	484	3.61E-04	551	7.02E-04	618	9.90E-04	685	4.60E-04	752	6.78E-05
418	3.02E-05	485	3.71E-04	552	7.05E-04	619	9.93E-04	686	4.49E-04	753	6.60E-05
419	3.37E-05	486	3.82E-04	553	7.07E-04	620	9.92E-04	687	4.39E-04	754	6.39E-05
420	3.79E-05	487	3.89E-04	554	7.12E-04	621	9.93E-04	688	4.26E-04	755	6.21E-05
421	4.16E-05	488	3.98E-04	555	7.15E-04	622	9.96E-04	689	4.19E-04	756	5.98E-05
422	4.59E-05	489	4.07E-04	556	7.19E-04	623	9.95E-04	690	4.06E-04	757	5.79E-05
423	5.12E-05	490	4.15E-04	557	7.21E-04	624	9.97E-04	691	3.99E-04	758	5.64E-05
424	5.67E-05	491	4.24E-04	558	7.22E-04	625	9.96E-04	692	3.87E-04	759	5.37E-05
425	6.19E-05	492	4.33E-04	559	7.26E-04	626	9.96E-04	693	3.78E-04	760	5.30E-05
426	6.98E-05	493	4.41E-04	560	7.28E-04	627	9.92E-04	694	3.70E-04	761	5.10E-05
427	7.73E-05	494	4.48E-04	561	7.28E-04	628	9.90E-04	695	3.61E-04	762	4.97E-05
428	8.52E-05	495	4.57E-04	562	7.35E-04	629	9.88E-04	696	3.53E-04	763	4.81E-05
429	9.47E-05	496	4.66E-04	563	7.37E-04	630	9.84E-04	697	3.42E-04	764	4.61E-05
430	1.05E-04	497	4.77E-04	564	7.38E-04	631	9.80E-04	698	3.34E-04	765	4.55E-05
431	1.14E-04	498	4.84E-04	565	7.43E-04	632	9.78E-04	699	3.25E-04	766	4.35E-05
432	1.25E-04	499	4.93E-04	566	7.46E-04	633	9.75E-04	700	3.17E-04	767	4.24E-05
433	1.34E-04	500	5.02E-04	567	7.49E-04	634	9.71E-04	701	3.09E-04	768	4.12E-05
434	1.46E-04	501	5.14E-04	568	7.53E-04	635	9.67E-04	702	3.01E-04	769	3.95E-05
435	1.59E-04	502	5.17E-04	569	7.56E-04	636	9.60E-04	703	2.93E-04	770	3.86E-05
436	1.75E-04	503	5.27E-04	570	7.62E-04	637	9.56E-04	704	2.84E-04	771	3.73E-05
437	1.90E-04	504	5.34E-04	571	7.63E-04	638	9.48E-04	705	2.79E-04	772	3.60E-05
438	2.09E-04	505	5.38E-04	572	7.67E-04	639	9.41E-04	706	2.69E-04	773	3.47E-05
439	2.30E-04	506	5.44E-04	573	7.69E-04	640	9.32E-04	707	2.62E-04	774	3.35E-05
440	2.53E-04	507	5.53E-04	574	7.70E-04	641	9.24E-04	708	2.55E-04	775	3.30E-05
441	2.74E-04	508	5.56E-04	575	7.77E-04	642	9.18E-04	709	2.47E-04	776	3.18E-05
442	3.00E-04	509	5.60E-04	576	7.77E-04	643	9.10E-04	710	2.41E-04	777	3.01E-05
443	3.30E-04	510	5.65E-04	577	7.83E-04	644	9.04E-04	711	2.34E-04	778	2.98E-05
444	3.64E-04	511	5.68E-04	578	7.86E-04	645	8.93E-04	712	2.28E-04	779	2.98E-05
445	4.01E-04	512	5.71E-04	579	7.92E-04	646	8.88E-04	713	2.22E-04	780	2.99E-05
446	4.37E-04	513	5.75E-04	580	7.95E-04	647	8.78E-04	714	2.15E-04	N/A	N/A



## 4.0 LM-79 Measurement and Test Results

### 4.2 Goniophotometer Test

Model No.	PIVOTL24DB @20W3500K	Sample ID	250903022-S1
Operate time (Min.)	30	Stabilization time (Min.)	60
Temperature (°C)	25.0	Humidity (%RH)	40.8

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 <math>25 \pm 1^\circ\text{C}</math>, 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 <math>\pm 0.2</math> 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 <math>1.0^\circ</math> vertical intervals and <math>15^\circ</math> horizontal intervals.</p>

#### Test Conditions

Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WORST CASE	120.0	60	0.166	19.6	0.983
NON-WORST CASE	N/A	N/A	N/A	N/A	N/A

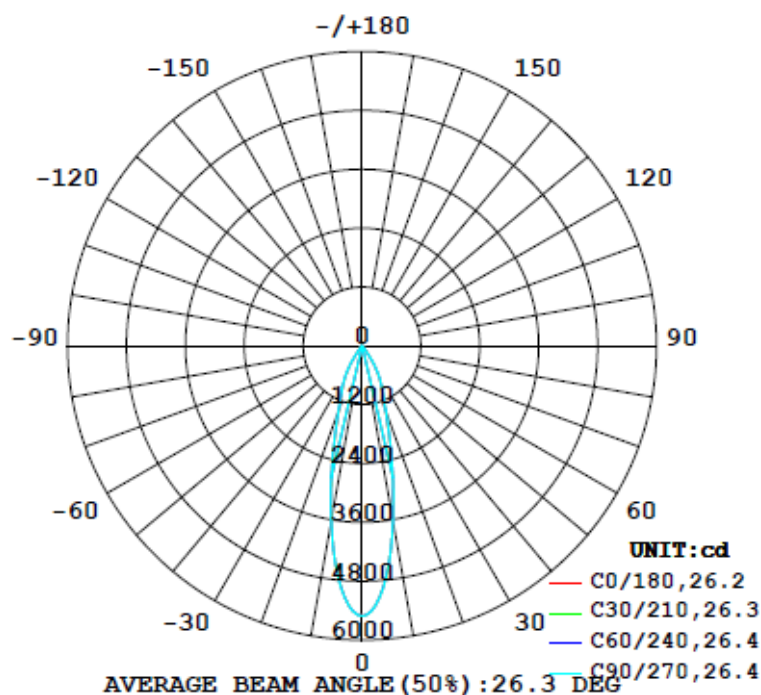
#### Test Result

Flux (lm)	Field Angle (10%)		Beam Angle (50%)		Luminous Efficacy (lm/W)	Zonal Lumen Requirement
	C0-180	C90-270	C0-180	C90-270		(0°-90°)
1722	61.7	62.8	26.2	26.4	87.9	100.0%

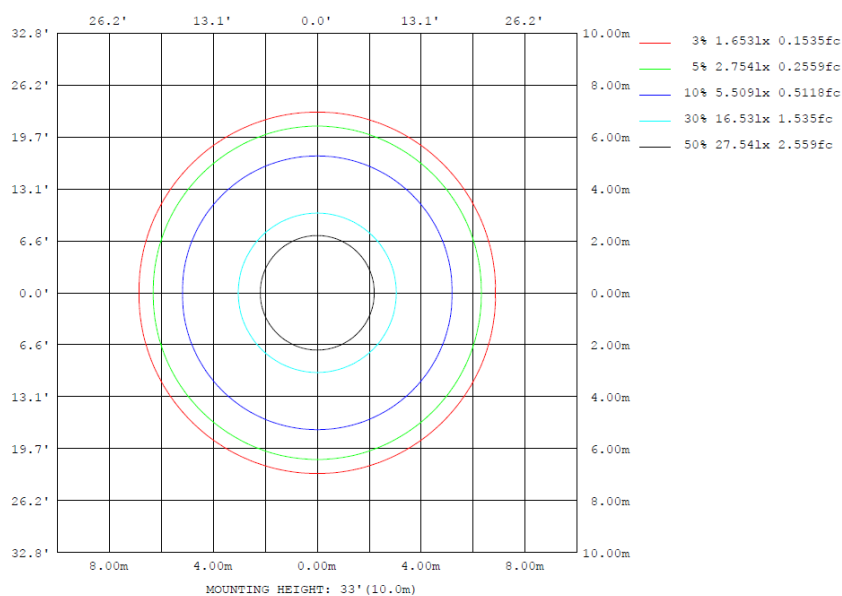
## 4.2 Goniophotometer Test

### Lighting Distribution Curve

#### LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



### Isolux Plot



## 4.2 Goniophotometer Test

### Zonal Lumen Summary

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	3621	3625	3632	3625	3621	3625	3632	3625	0- 10	429.0	429.0	24.9,24.9
20	1378	1403	1419	1403	1378	1403	1419	1403	10- 20	640.0	1069	62.1,62.1
30	619.4	645.9	658.7	645.9	619.4	645.9	658.7	645.9	20- 30	442.5	1512	87.8,87.8
40	44.49	45.03	44.08	45.03	44.49	45.03	44.08	45.03	30- 40	178.3	1690	98.1,98.1
50	15.06	15.40	15.92	15.40	15.06	15.40	15.92	15.40	40- 50	18.56	1708	99.2,99.2
60	6.583	6.886	7.281	6.886	6.583	6.886	7.281	6.886	50- 60	10.29	1719	99.8,99.8
70	0.8945	0.9809	1.162	0.9809	0.8945	0.9809	1.162	0.9809	60- 70	3.267	1722	100,100
80	0.0393	0.0380	0.0396	0.0380	0.0393	0.0380	0.0396	0.0380	70- 80	0.2082	1722	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0227	1722	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1722	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1722	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1722	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1722	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1722	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1722	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1722	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1722	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1722	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Zonal (lm)		Total (lm)		Percent
0-10	429.04	0-10	429.04	24.91%
10-20	640.03	0-20	1069.07	62.08%
20-30	442.49	0-30	1511.56	87.77%
30-40	178.27	0-40	1689.83	98.12%
40-50	18.56	0-50	1708.39	99.20%
50-60	10.29	0-60	1718.68	99.80%
60-70	3.27	0-70	1721.95	99.99%
70-80	0.21	0-80	1722.16	100.00%
80-90	0.02	0-90	1722.18	100.00%
90-100	0.00	0-100	1722.18	100.00%
100-110	0.00	0-110	1722.18	100.00%
110-120	0.00	0-120	1722.18	100.00%
120-130	0.00	0-130	1722.18	100.00%
130-140	0.00	0-140	1722.18	100.00%
140-150	0.00	0-150	1722.18	100.00%
150-160	0.00	0-160	1722.18	100.00%
160-170	0.00	0-170	1722.18	100.00%
170-180	0.00	0-180	1722.18	100.00%

## 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	5509	5512	5513	5513	5510	5511	5510	5511	5510	5513	5513	5512	5509	5512	5513	5513	5510	5511	5510
5	4952	4955	4941	4947	4948	4954	4959	4954	4948	4947	4941	4955	4952	4955	4941	4947	4948	4954	4959
10	3621	3622	3621	3625	3625	3628	3632	3628	3625	3625	3621	3622	3621	3622	3621	3625	3625	3628	3632
15	2294	2298	2305	2309	2311	2315	2320	2315	2311	2309	2305	2298	2294	2298	2305	2309	2311	2315	2320
20	1378	1390	1398	1403	1410	1415	1419	1415	1410	1403	1398	1390	1378	1390	1398	1403	1410	1415	1419
25	942	948	956	963	966	968	968	968	966	963	956	948	942	948	956	963	966	968	968
30	619	629	637	646	652	658	659	658	652	646	637	629	619	629	637	646	652	658	659
35	254	262	270	276	282	285	286	285	282	276	270	262	254	262	270	276	282	285	286
40	44.5	44.7	45.0	45.0	44.4	43.5	44.1	43.5	44.4	45.0	45.0	44.7	44.5	44.7	45.0	45.0	44.4	43.5	44.1
45	20.3	20.3	20.5	20.7	20.9	21.2	21.5	21.2	20.9	20.7	20.5	20.3	20.3	20.3	20.5	20.7	20.9	21.2	21.5
50	15.1	15.2	15.3	15.4	15.6	15.7	15.9	15.7	15.6	15.4	15.3	15.2	15.1	15.2	15.3	15.4	15.6	15.7	15.9
55	11.3	11.5	11.7	11.9	12.0	12.2	12.4	12.2	12.0	11.9	11.7	11.5	11.3	11.5	11.7	11.9	12.0	12.2	12.4
60	6.58	6.69	6.77	6.89	7.03	7.10	7.28	7.10	7.03	6.89	6.77	6.69	6.58	6.69	6.77	6.89	7.03	7.10	7.28
65	2.82	2.90	2.96	2.97	3.06	3.17	3.26	3.17	3.06	2.97	2.96	2.90	2.82	2.90	2.96	2.97	3.06	3.17	3.26
70	0.89	0.87	0.92	0.98	1.02	1.08	1.16	1.08	1.02	0.98	0.92	0.87	0.89	0.87	0.92	0.98	1.02	1.08	1.16
75	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
80	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
85	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table--2

UNIT: cd

C (DEG) y (DEG)	285	300	315	330	345														
0	5511	5510	5513	5513	5512														
5	4954	4948	4947	4941	4955														
10	3628	3625	3625	3621	3622														
15	2315	2311	2309	2305	2298														
20	1415	1410	1403	1398	1390														
25	968	966	963	956	948														
30	658	652	646	637	629														
35	285	282	276	270	262														
40	43.5	44.4	45.0	45.0	44.7														
45	21.2	20.9	20.7	20.5	20.3														
50	15.7	15.6	15.4	15.3	15.2														
55	12.2	12.0	11.9	11.7	11.5														
60	7.10	7.03	6.89	6.77	6.69														
65	3.17	3.06	2.97	2.96	2.90														
70	1.08	1.02	0.98	0.92	0.87														
75	0.07	0.07	0.07	0.07	0.07														
80	0.04	0.04	0.04	0.04	0.04														
85	0.02	0.02	0.02	0.02	0.02														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

## 4.0 LM-79 Measurement and Test Results

### 4.3 THD and PF Test

<b>Model No.</b>	PIVOTL24DB @20W3500K	<b>Sample ID</b>	250903022-S1
<b>Temperature (°C)</b>	25.4	<b>Humidity (%RH)</b>	41.0

<b>Test Method</b>
<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 <math>25 \pm 1^\circ\text{C}</math>. 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	0.166	19.6	0.983	8.74

## 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\*\*\*\*\*